



Service Manual

Lexmark™ X860de, X862de, and X864de MFP

7500-432, -632, and -832

- *Table of contents*
- *Start diagnostics*
- *Safety and notices*
- *Trademarks*
- *Index*

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Table of contents

Notices	XV
Laser notice	xv
Lithium warning	xix
Safety information	xix
Preface	xxii
Change history	xxii
Conventions	xxii
General information	1-1
Models	1-1
Printer technology	1-1
Maximum resolution	1-1
Processor	1-1
Memory	1-1
Standard connectivity	1-1
Optional connectivity	1-1
Operating systems—printer driver	1-2
Emulation	1-2
Fonts	1-2
Paper capacity	1-2
Paper handling	1-3
Media types	1-3
Media weights	1-3
Size and weight—without finisher	1-3
Duty cycle	1-3
Printer overview	1-4
.....	1-4
Basic model	1-4
Configured model	1-5
Printer theory	1-6
Driving force transmission path	1-6
Media transport	1-8
Functions of main components	1-10
Media tray assembly	1-11
Multi-purpose feeder (MPF)	1-13
Detecting media size	1-14
Registration	1-15
Transfer roll assembly	1-15
Printhead assembly	1-16
Fuser	1-18
Exit	1-19
Drive	1-21
Electrical components and controller	1-22
Control	1-24
Media size control	1-24
Printhead control	1-25
Fuser control	1-25
Xerographic Process During a Print Cycle	1-26
Safety system diagram	1-33
Document scanning	1-34
Document scanning at platen	1-34
Document scanning at ADF	1-35
Image data flow	1-41
Drive torque transfer scheme	1-42

Previous



Next



Go Back

ADF feed motor assembly	1-42
ADF registration motor	1-43
Names and functions of components	1-45
Scanner unit assembly	1-45
ADF	1-46
Control	1-50
Document size detection at scanner unit assembly	1-50
ADF document size detection	1-52
Document scanning steps	1-55
Tandem tray theory	1-56
Driving force transmission path	1-57
Media transport	1-58
Media tray assembly	1-60
Main components	1-63
Duplex	1-65
Duplex drive motor	1-65
Media transport	1-66
Exit 2	1-69
Exit 2 drive motor	1-69
Media transport	1-70
Tools required for service	1-73
Acronyms	1-74

Diagnostic information

Start	2-1
Using service checks	2-1
Confirm the installation status	2-2
Power-on Reset sequence	2-2
Understanding the printer operator panel	2-3
Understanding the home screen	2-5
Other buttons may appear on the home screen	2-6
Using the touch-screen buttons	2-8
Sample touch screen	2-8
.....	2-8
Other touch-screen buttons	2-9
Features	2-10
Error code messages	2-11
Service checks	2-36
200.00 Sensor (registration) off jam (too long)	2-36
200.01 Sensor (registration) static on jam	2-37
201.00 Sensor (fuser exit) on jam	2-38
202.00 Sensor (fuser exit) off jam	2-39
202.01 Sensor (fuser exit) off (too short) jam	2-40
202.02 Sensor (fuser exit) static jam	2-41
203.00 Sensor (exit 2) on jam	2-41
203.01 Sensor (exit 2) off jam	2-43
203.02 Sensor (exit 2) on jam in standard bin or finisher	2-45
203.03 Sensor (exit 2) static jam	2-46
230.00 Sensor (duplex wait) on jam	2-47
230.00 Sensor (duplex wait) on jam	2-48
230.01 Sensor (duplex wait) static jam	2-50
231.00 Sensor (registration) on jam (duplex paper feed)	2-50
231.01 Sensor (registration) on jam (duplex paper feed)	2-52
241.00 Sensor (pre-feed) on jam (tray 1 feed)	2-54
241.01 Sensor (registration) on jam (tray 1 feed)	2-55
242.00 Sensor (pre-feed) on jam (tray 2 feed)	2-56
242.01 Sensor (tray 2 feed-out) on jam (tray 2 feed)	2-58
242.02 Sensor (registration) on jam (tray 2 feed)	2-60
242.03 Sensor (tray 2 feed-out) static jam	2-62



243.00	Sensor (pre-feed) on jam (tray 3 media feed)	2-62
243.01	Sensor (tray 3 feed-out) on jam (tray 3 media feed)	2-64
243.02	Sensor (tray 2 feed-out) on jam (tray 3 media feed)	2-66
243.03	Sensor (registration) on jam (tray 3 media feed)	2-67
243.04	Sensor (tray 3 feed-out) static jam	2-69
244.00	Sensor (tray 4 feed-out) on jam (tray 4 media feed)	2-70
244.01	Sensor (tray 3 feed-out) on jam (tray 4 media feed)	2-73
244.02	Sensor (tray 2 feed-out) on jam (tray 4 media feed)	2-75
244.03	Sensor (registration) on jam (tray 4 media feed)	2-77
244.04	Sensor (pre-feed) on jam (tray 4 media feed)	2-78
244.05	Sensor (tray 4 feed-out) static jam	2-80
250.00	Sensor (registration) on jam (MPF pick)	2-81
290.00	Switch (sheet through) static jam	2-83
290.01	Sensor (sheet through) on jam	2-83
290.02	Sensor (ADF pre-registration) on jam ADF simplex side 1	2-86
290.03	Sensor (ADF pre-registration) off jam	2-88
290.10	Sensor (ADF pre-registration) static jam	2-90
290.11	Sensor (ADF registration) on jam ADF simplex side 1	2-91
290.12	Sensor (ADF registration) on jam side 2	2-93
290.13	Sensor (ADF registration) off jam	2-95
290.14	Sensor (ADF inverter) on jam (Inverting)	2-97
290.15	Sensor (ADF registration) off jam (inverting)	2-99
290.21	Sensor (ADF width APS 1) static jam	2-102
290.22	Sensor (ADF width APS 2) static jam	2-103
290.23	Sensor (ADF width APS 3) static jam	2-104
291.00	Sensor (ADF registration) static jam	2-104
291.01	Sensor (ADF inverter) off jam (inverting)	2-105
291.02	Sensor (ADF inverter) on jam 2	2-107
291.03	Sensor (ADF inverter) off jam	2-109
294.00	Sensor (ADF inverter) static jam	2-112
294.01	Sensor (ADF pre-registration) on jam side 2	2-113
294.02	Sensor (ADF pre-registration) off jam on inverting	2-115
295.00	Size mismatch jam (mix-size)	2-117
295.01	Size mismatch jam (no mix-size)	2-119
295.02	Invalid combine size jam	2-120
295.03	Too short size jam	2-121
295.04	Too long size jam	2-123
298.01	Scanner cable missing or unplugged	2-124
841.00	Image pipeline ASIC failure	2-124
842.00	Scanner communication failure	2-125
842.01	Scanner communication failure	2-125
842.02	Scanner communication failure	2-126
842.03	Scanner communication failure	2-127
842.04	Scanner communication failure	2-127
842.10	Scanner unit assembly - ADF communication failure	2-128
842.11	Scanner communication failure (by scanner)	2-128
842.12	Scanner unit assembly communication failure	2-129
843.00	Sensor (scanner HP) failure	2-130
843.01	Scanner carriage over run failure	2-131
843.10	ADF RAM test failure	2-131
843.11	ADF EEPROM failure	2-131
843.12	ADF pick roll position lift up failure	2-132
843.20	Scanner unit assembly connection failure	2-133
843.21	Scanner unit assembly EEPROM failure	2-133
843.22	Scanner unit assembly EEPROM sub system failure	2-134
843.23	Scanner cooling fan failure	2-134
843.24	Image processing failure	2-135
843.25	Scanner controller card assembly failure 1	2-135
843.26	Scanner controller card assembly failure 2	2-136

Previous



Next



Go Back

844.00	Exposure lamp failure	2-136
844.01	White reference/exposure lamp illumination failure	2-137
845.00	CCD failure	2-139
845.01	CCD initialization (lamp on) failure	2-139
845.02	CCD initialization (lamp off) failure	2-140
846.00	Scanner communication failure	2-140
846.01	Scanner communication failure	2-141
846.10	Sensor (ADF width APS X) failure	2-141
846.12	Scanner unit assembly software logic failure	2-143
846.13	Switch (platen interlock) open	2-143
849.00	Hard drive failure	2-144
900.xx	System software error	2-145
903.00	RAM read/write check failure	2-147
904.00	NVM data failure	2-148
905.00	NVM read/write cannot be executed failure	2-148
906.00	CPU power to access NVM failure	2-149
907.00	RFID ASIC failure	2-149
908.00	PPM data failure	2-150
909.00	Zero cross failure	2-150
910.00	Transport motor stop failure	2-150
911.00	Transport motor failure	2-151
912.00	PC cartridge unit motor failure	2-152
913.00	Printhead assembly failure	2-153
914.00	Toner add motor assembly failure	2-153
915.00	Fuser cooling fan failure	2-154
916.00	PC cartridge cooling fan failure	2-154
917.00	LVPS cooling fan failure	2-155
918.00	Sensor (exit 1 media shift HP) failure	2-156
919.00	Sensor (exit 2 media shift HP) failure	2-157
919.01	Exit 2 unit assembly connection failure	2-158
920.00	Fuser unit assembly on time failure	2-158
921.00	Over heat temperature failure	2-159
922.00	Center thermistor failure	2-159
923.00	Rear thermistor failure	2-160
924.00	Pressure roll thermistor failure	2-160
925.00	Fuser operating temperature failure	2-160
927.00	PC cartridge RFID data write failure	2-161
928.00	PC cartridge RFID communication failure	2-161
929.00	Sensor (ATC) failure	2-162
930.00	Laser power failure	2-162
932.00	Toner cartridge RFID data write failure	2-163
933.00	Toner cartridge RFID communication failure	2-163
939.00	RIP card assembly communication failure	2-163
941.00	Media tray 1 lift up / no media tray failure	2-164
942.00	Media tray 2 lift up / no media tray failure	2-165
943.00	Tray 3 lift up / no tray failure	2-167
944.00	Tray 4 lift up / no tray failure	2-168
951.XX	RIP card assembly NVRAM failure	2-170
953.XX	Operator panel assembly NVRAM failure	2-170
955.XX	RIP card assembly NAND CRC failure	2-170
956.00	RIP card assembly processor failure	2-171
956.01	RIP card assembly processor over temperature failure	2-171
956.02	RIP card assembly cooling fan failure	2-171
956.03	RIP card assembly FPGA failure	2-172
980.00	2TM/TTM controller card assembly communication failure	2-172
980.03	Exit interface card assembly communication failure	2-173
980.04	Duplex controller card assembly communication failure	2-173
980.05	Engine flicker communication failure	2-174
997.00	Duplex controller card assembly type failure	2-174

Previous



Next



Go Back

2TM/TTM left door assembly open	2-175
Duplex left door assembly open	2-176
Exit 2 left door assembly open	2-176
Media size mismatch in width	2-177
Media size mismatch in width	2-178
No media in the select media tray	2-179
No media in the select media tray	2-180
Paper is installed (short edge) in the media paper tray	2-181
PC cartridge end of life	2-181
PC cartridge RFID failure	2-182
PC cartridge set failure	2-182
Printer front door open	2-183
Printer left door open	2-184
Printer left lower door open	2-185
Scheduled maintenance required	2-185
Standard bin 1 full	2-185
Standard bin 2 full	2-186
Scanner missing failure	2-187
Switch (ADF left cover interlock) open	2-188
Toner cartridge empty	2-188
Toner cartridge near empty	2-190
Toner cartridge failure	2-190
Toner cartridge RFID failure	2-191
Toner cartridge set failure	2-191
Tray 1 media size failure	2-192
Tray 2 media size failure	2-193
Tray 1 media size mismatch in length	2-193
Tray 2 media size mismatch in length	2-195
Tray 3 media size failure	2-197
Tray 4 media size failure	2-198
Tray 3 media size mismatch in length	2-199
Tray 4 media size mismatch in length	2-201
Image quality trouble	2-203
Troubleshooting	2-203
Image Quality	2-204
Diagnostic aids	3-1
Accessing service menus	3-1
Diagnostics Menu	3-2
Entering Diagnostics Menu	3-2
Available tests	3-2
MOTOR TESTS	3-5
PRINT TESTS	3-6
HARDWARE TESTS	3-7
DUPLEX TESTS	3-10
INPUT TRAY TESTS	3-10
OUTPUT BIN TESTS	3-12
FINISHER TESTS	3-13
BASE SENSOR TEST	3-16
DEVICE TESTS	3-17
PRINTER SETUP	3-19
REPORTS	3-22
EVENT LOG	3-22
SCANNER TESTS	3-25
Scanner Manual Registration	3-26
Printing the registration test original page	3-26
Testing the manual scanner registration	3-27
Analyzing the manual scanner registration copies	3-28
Manually adjusting the scanner's registration	3-28

Previous



Next



Go Back

Scanner manual registration factory defaults	3-30
Exiting Diagnostics Menu	3-32
Configuration Menu	3-33
Entering Configuration Menu	3-33
Available menus	3-33
Maintenance Counter Value	3-35
Reset Maintenance Counter	3-35
REGISTRATION	3-36
Print Quality Pages (Configuration Menu)	3-38
SIZE SENSING	3-39
Panel Menus	3-40
PPDS Emulation	3-40
Factory Defaults	3-41
Energy Conserve	3-41
Min Copy Memory	3-41
Format Fax Storage	3-42
EVENT LOG (Configuration Menu)	3-42
ADF Edge Erase	3-42
FB Edge Erase	3-42
Paper Prompts	3-44
Envelope Prompts	3-44
Jobs On Disk	3-44
Disk Encryption	3-44
Wipe Disk	3-47
Font Sharpening	3-49
Require Standby	3-50
Short Edge Printing	3-50
Tray Low Message	3-50
LES Applications	3-50
Key Repeat Initial Delay	3-51
Key Repeat Rate	3-51
Booklet Adjustments	3-51
.....	3-52
Exiting Configuration Menu	3-52
Repeating defects	3-54
Repair information	4-1
Handling ESD-sensitive parts	4-1
Removal procedures	4-2
Before starting service work	4-2
Printer front left cover removal	4-3
Switch (printer front door interlock) removal	4-4
Top cover assembly removal	4-5
Printer front door assembly removal	4-6
Front door support strap and front door magnetic catch removal	4-7
Front inner cover removal	4-8
Right upper cover removal	4-9
Right lower cover removal	4-10
Rear motor cover removal	4-11
Rear lower cover removal	4-12
Rear RIP card cover removal	4-13
Option hookup cover removal	4-14
Rear upper cover removal	4-15
Controller box lower cover removal	4-17
Controller box side cover removal	4-18
Switch (media size) removal	4-19
Media feed unit assembly 1 removal	4-20
Media feed unit assembly 2 removal	4-23
Media tray side guides removal	4-26



Media tray end guide removal	4-30
Media tray lift gear group removal	4-32
Media feed lift motor removal	4-33
Tray lift coupling assembly removal	4-34
Tray lift one way clutch/gear assembly removal	4-35
Media feed unit drive gear - 13 tooth removal	4-37
Media out actuator removal	4-38
Sensor (media level) removal	4-39
Sensor (media out) removal	4-40
Sensor (pre-feed) removal	4-41
Media feed unit drive gear - 28 / 21 tooth removal	4-42
Media feed unit drive gear - 29 tooth removal	4-43
Feed roll removal	4-45
Feed roll one way clutch removal	4-46
Feed roll one way gear 22 tooth removal	4-47
Separation roll one way friction clutch removal	4-48
Separation roll removal	4-49
Pick roll idler gear 33 tooth removal	4-50
Pick roll removal	4-51
Pick roll drive gear 25 tooth removal	4-52
Feed unit drive gear 27 tooth removal	4-53
MPF feed unit assembly removal	4-54
MPF media out actuator and upper frame removal	4-55
Sensor (MPF media out) removal	4-56
MPF transport pinch roll assembly removal	4-57
MPF rear cover removal	4-58
MPF feed drive gear group removal	4-59
MPF pressure pad removal	4-60
MPF transport roll assembly removal	4-61
MPF pick solenoid / pick lever removal	4-62
MPF feed shaft assembly removal	4-63
MPF pick roll removal	4-64
MPF fold down tray assembly removal	4-65
Vertical drive gear assembly removal	4-67
Switch (left lower door interlock)	4-68
Media transport roll assembly / gear removal	4-69
Printer left lower door assembly removal	4-70
Printer left lower pinch roll assembly removal	4-71
Left lower door handle assembly removal	4-72
Transfer roll assembly removal	4-73
Printer left door support strap removal	4-74
Printer left door assembly removal	4-75
Switch (printer left door interlock) removal	4-76
Transfer roll guide assembly removal	4-77
Printer left door assembly handle removal	4-78
Registration roll assembly removal	4-79
Registration clutch assembly removal	4-80
Sensor (registration) removal	4-81
MPF/transport drive motor assembly removal	4-82
Sensor (tray 2 feed-out) removal	4-83
Switch (PC cartridge interlock) removal	4-84
Sensor (humidity and temperature) removal	4-90
Sensor (RFID PC cartridge) and sensor (RFID toner cartridge) removal	4-94
Toner cartridge guide assembly removal	4-95
Toner add motor assembly removal	4-97
Fuser cooling fan removal	4-98
Printhead assembly removal	4-99
PC cartridge cooling fan duct removal	4-100
PC cartridge cooling fan removal	4-102

Previous



Next



Go Back

Sensor (fuser exit) removal	4-103
Fuser unit assembly removal	4-104
Exit 1 media shift assembly removal	4-105
Media shift motor removal	4-108
Sensor (exit 1 media shift) removal	4-109
Sensor (exit 1 bin full) removal	4-110
Exit 1 media shift gear removal	4-111
Exit 1 drive belt removal	4-113
Dual drive motor assembly removal	4-114
High voltage power supply (HVPS) card removal	4-115
Switch (main power) removal	4-116
Exit interface card assembly removal	4-117
Printer engine card assembly removal	4-119
LVPS card assembly removal	4-120
LVPS cooling fan removal	4-121
AC drive card assembly removal	4-122
AC power input socket assembly removal	4-124
AC power input socket removal	4-125
Finisher AC output removal	4-126
RIP card chassis bracket removal	4-127
Hard drive removal	4-128
Fax interface card assembly removal	4-129
RIP card assembly removal	4-130
Scanner removals	4-131
Scanner top rear cover removal	4-132
Scanner left cover removal	4-133
Scanner right cover removal	4-134
Operator panel assembly removal	4-135
Operator panel cover assembly removal	4-140
USB-Smart card-LED cable assembly removal	4-144
Operator panel user touch screen removal	4-146
Operator panel controller card removal	4-147
Operator panel cable removal	4-148
Scanner unit assembly removal	4-149
Large platen glass removal	4-150
Scanner controller card assembly removal	4-151
Small platen glass removal	4-153
CCD card/lens assembly removal	4-154
Sensor (platen length APS 1) removal	4-156
Sensor (platen length APS 2) removal	4-157
Switch (platen interlock) removal	4-158
Sensor (scanner HP) removal	4-159
ADF angle actuator assembly removal	4-160
Sensor (ADF angle) removal	4-161
Scanner PS card assembly removal	4-162
Scanner drive motor assembly removal	4-163
Scanner cooling fan removal	4-164
Exposure lamp PS card assembly removal	4-165
Exposure lamp removal	4-166
ADF removals	4-167
ADF unit assembly removal	4-167
Platen cushion removal	4-168
Media scan guide removal	4-169
ADF media feed assembly removal	4-170
Document tray assembly removal	4-172
ADF rear cover removal	4-173
ADF front cover assembly removal	4-174
ADF controller card assembly removal	4-175
ADF left cover assembly removal	4-176

Previous



Next



Go Back

Left cover pinch roll assembly removal	4-179
ADF feed drive motor assembly removal	4-180
Inverter solenoid assembly removal	4-181
Document set LED removal	4-182
Sheet through actuator removal	4-183
Sensor (pick roll position HP) removal	4-185
ADF feed/pick roll assembly removal	4-186
Document set actuator removal	4-188
ADF left cover media guide removal	4-189
Pick roll position motor assembly removal	4-190
Switch (ADF left cover interlock) removal	4-191
Sensor (ADF width APS 1)	4-192
Sensor (ADF width APS 2)	4-193
Sensor (ADF width APS 3)	4-194
Sensor (ADF registration)	4-195
Sensor (ADF pre-registration)	4-196
Sensor (ADF inverter)	4-197
Actuator/media guide assembly removal	4-198
Inverter gate removal	4-199
ADF registration roll assembly removal	4-199
ADF feed-out roll assembly removal	4-201
ADF separation roll guide assembly	4-203
ADF exit roll assembly removal	4-204
ADF transport roll assembly removal	4-206
Sensor (document set) removal	4-207
Sensor (sheet through) removal	4-208
ADF registration motor removal	4-209
Sensor (document tray width 1) removal	4-210
Sensor (document tray width 2) removal	4-211
Sensor (document tray width 3) removal	4-212
Sensor (document tray length 1) removal	4-213
Sensor (document tray length 2) removal	4-214
2000-sheet dual input (TTM) removals	4-215
2000-sheet dual input (TTM)—top cover removal	4-215
2000-sheet dual input (TTM)—foot cover removal	4-216
2000-sheet dual input (TTM)—right cover removal	4-217
2000-sheet dual input (TTM)—left cover removal	4-218
2000-sheet dual input (TTM)—rear cover removal	4-219
2000-sheet dual input (TTM)—caster removal	4-220
2000-sheet dual input (TTM)—tray support roll removal	4-221
2000-sheet dual input (TTM)—tray 4 assembly removal	4-223
2000-sheet dual input (TTM)—tray 3 assembly removal	4-224
2000-sheet dual input (TTM)—tray 3 front cover removal	4-225
2000-sheet dual input (TTM)—tray 3 rear cable assembly removal	4-226
2000-sheet dual input (TTM)—tray 3 front cable assembly removal	4-229
2000-sheet dual input (TTM)—media guide rack and pinion removal	4-230
2000-sheet dual input (TTM)—tray 3 media guide lock assembly removal	4-233
2000-sheet dual input (TTM)—tray 3 mylar actuator removal	4-234
2000-sheet dual input (TTM)—tray 4 front cover removal	4-235
2000-sheet dual input (TTM)—tray 4 media transport assembly removal	4-236
2000-sheet dual input (TTM)—tray 4 rear cables removal	4-237
2000-sheet dual input (TTM)—tray 4 front cables removal	4-240
2000-sheet dual input (TTM)—tray 4 media guide rack and pinion removal	4-242
2000-sheet dual input (TTM)—tray 4 media guide lock assembly removal	4-244
2000-sheet dual input (TTM)—tray 4 mylar actuator removal	4-245
2000-sheet dual input (TTM)—media feed unit assembly removal (tray 4)	4-246
2000-sheet dual input (TTM)—sensor (tray 4 feed-out) removal	4-248
2000-sheet dual input (TTM)—switch (TTM media size) removal	4-249
2000-sheet dual input (TTM)—media feed unit assembly removal (tray 3)	4-250

Previous



Next



Go Back

2000-sheet dual input (TTM)—2TM/TTM media transport roll assembly removal	4-253
2000-sheet dual input (TTM)—sensor (tray 3 feed-out) removal	4-254
2000-sheet dual input (TTM)—media feed lift motor removal	4-255
2000-sheet dual input (TTM)—lift coupling assembly removal	4-256
2000-sheet dual input (TTM)—one-way clutch / gear assembly removal	4-257
2000-sheet dual input (TTM)—media feed unit drive gear 13 tooth removal	4-259
2000-sheet dual input (TTM)—media out actuator removal	4-260
2000-sheet dual input (TTM)—sensor (media level) removal	4-261
2000-sheet dual input (TTM)—sensor (media out) removal	4-262
2000-sheet dual input (TTM)—sensor (pre-feed) removal	4-263
2000-sheet dual input (TTM)—media feed unit drive gear 28 / 21 tooth removal	4-264
2000-sheet dual input (TTM)—media feed unit drive gear 29 tooth removal	4-265
2000-sheet dual input (TTM)—feed roll removal	4-266
2000-sheet dual input (TTM)—feed roll one-way clutch removal	4-267
2000-sheet dual input (TTM)—one-way 22 tooth removal	4-268
2000-sheet dual input (TTM)—separation roll one-way friction clutch removal	4-269
2000-sheet dual input (TTM)—separation roll removal	4-270
2000-sheet dual input (TTM)—pick roll idler gear 33 tooth removal	4-272
2000-sheet dual input (TTM)—pick roll removal	4-273
2000-sheet dual input (TTM)—pick roll drive gear 25 tooth removal	4-274
2000-sheet dual input (TTM)—feed unit drive gear 27 tooth removal	4-275
2000-sheet dual input (TTM)—2TM/TTM left door assembly removal	4-276
2000-sheet dual input (TTM)—switch (2TM/TTM left door interlock) removal	4-277
2000-sheet dual input (TTM)—tray 3 lift gear assembly removal	4-278
2000-sheet dual input (TTM)—tray 4 lift gear assembly removal	4-279
2000-sheet dual input (TTM)—drive motor assembly removal	4-280
2000-sheet dual input (TTM)—2TM/TTM controller card assembly removal	4-281
2000-sheet dual input (TTM)—clutch removal	4-282
Duplex unit removals	4-283
Duplex unit assembly removal	4-284
Duplex docking locks removal	4-286
Duplex support strap removal	4-287
Duplex drive gear 28 tooth removal	4-290
Duplex drive gear 33 / 74 tooth removal	4-293
Duplex drive gear 33 tooth removal	4-296
Duplex drive gear 42 tooth removal	4-299
Duplex switch (left cover interlock) removal	4-302
Duplex media in actuator removal	4-305
Duplex drive motor assembly removal	4-308
Duplex controller card assembly removal	4-311
Duplex sensor (duplex wait) removal	4-314
Duplex access handle removal	4-317
Duplex media transport rolls removal	4-320
Duplex media center transport roll removal	4-321
Exit 2 removals	4-322
Exit 2 unit assembly removal	4-322
Exit 2 unit docking lever removal	4-323
Exit 2 left door handle removal	4-323
Exit 2 diverter gate removal	4-325
Exit 2 left cover removal	4-325
Exit 2 right cover removal	4-327
Standard bin full exit 2 actuator removal	4-329
Exit 2 actuator removal	4-330
Exit 2 switch (exit 2 left door interlock) removal	4-331
Exit 2 media shift gear removal	4-333
Exit 2 media diverter solenoid removal	4-334
Exit 2 sensor (exit 2) removal	4-335
Exit 2 sensor (exit 2 media shift HP) removal	4-336
Exit 2 sensor (standard bin full exit 2) removal	4-337

Previous



Next



Go Back

Exit 2 cooling fan removal	4-338
Component locations	5-1
Locations	5-1
Printer boards	5-1
HVPS	5-1
LVPS	5-1
Printer motors and sensors	5-2
Printer switches	5-7
Cables	5-8
TTM components	5-13
Duplex components	5-14
Exit 2 components	5-15
Preventive maintenance	6-1
Safety inspection guide	6-1
Lubrication specifications	6-2
Scheduled maintenance	6-2
Parts catalog	7-1
How to use this parts catalog	7-1
Assembly 1: Covers (1 of 2)	7-2
Assembly 2: Covers	7-4
Assembly 3: Media feed unit	7-6
Assembly 4: Media feed unit exploded (tray 1 and tray 2)	7-8
Assembly 5: Media tray	7-10
Assembly 6: MPF unit	7-12
Assembly 7: MPF unit feed	7-14
Assembly 8: Left lower door and transport	7-16
Assembly 9: Left door and transfer roll	7-18
Assembly 10: Printer left door	7-20
Assembly 11: Registration	7-22
Assembly 12: Printhead, cartridge guides, and fans	7-24
Assembly 13: Fuser	7-26
Assembly 14: Standard Exit 1	7-28
Assembly 15: Dual unit drive motor	7-30
Assembly 16: Electrical	7-32
Assembly 17: Covers and operator panel	7-36
Assembly 18: Platen glass	7-38
Assembly 19: Lens and sensors	7-40
Assembly 20: Carriage motor and cooling fan	7-42
Assembly 21: Full/half rate carriage	7-44
Assembly 22: ADF assembly	7-46
Assembly 23: ADF covers and components	7-48
Assembly 24: ADF base	7-50
Assembly 25: ADF feeder	7-52
Assembly 26: ADF left cover components	7-54
Assembly 27: ADF media guide	7-56
Assembly 28: ADF feeder roll	7-58
Assembly 29: ADF motor unit	7-60
Assembly 30: ADF document tray	7-62
Assembly 31: 2000-sheet dual input (TTM)—covers	7-64
Assembly 32: 2000-sheet dual input (TTM)—tray 3	7-66
Assembly 33: 2000-sheet dual input (TTM)—tray 4	7-68
Assembly 34: 2000-sheet dual input (TTM)—feed and transport	7-70
Assembly 35: 2000-sheet dual input (TTM)—feed and transport	7-72
Assembly 36: 2000-sheet dual input (TTM)—media feed unit	7-74
Assembly 37: 2000-sheet dual input (TTM)—left door	7-76

Previous



Next



Go Back

Assembly 38: 2000-sheet dual input (TTM)—drive and electrical	7-78
Assembly 39: Duplex outer	7-80
Assembly 40: Duplex inner	7-82
Assembly 41: Exit 2 outer	7-84
Assembly 42: Exit 2 inner	7-86
Assembly 43: Electrical cables	7-88
Assembly 44: Electrical cables	7-89
Assembly 45: Electrical cables	7-90
Assembly 46: Electrical cables	7-91
Assembly 47: Electrical cable	7-92
Assembly 48: Power cords	7-93
Assembly 49: Miscellaneous	7-94
Index	I-1
Part number index	I-9

Previous



Next



Go Back

Notices

Previous



Next



Go Back

Laser notice

The printer is certified in the U.S. to conform to the requirements of DHHS 21 CFR Subchapter J for Class I (1) laser products, and elsewhere is certified as a Class I laser product conforming to the requirements of IEC 60825-1.

Class I laser products are not considered to be hazardous. The printer contains internally a Class IIIb (3b) laser that is nominally a 5 milliwatt gallium arsenide laser operating in the wavelength region of 770-795 nanometers. The laser system and printer are designed so there is never any human access to laser radiation above a Class I level during normal operation, user maintenance, or prescribed service condition.

Laser

Der Drucker erfüllt gemäß amtlicher Bestätigung der USA die Anforderungen der Bestimmung DHHS (Department of Health and Human Services) 21 CFR Teil J für Laserprodukte der Klasse I (1). In anderen Ländern gilt der Drucker als Laserprodukt der Klasse I, der die Anforderungen der IEC (International Electrotechnical Commission) 60825-1 gemäß amtlicher Bestätigung erfüllt.

Laserprodukte der Klasse I gelten als unschädlich. Im Inneren des Druckers befindet sich ein Laser der Klasse IIIb (3b), bei dem es sich um einen Galliumarsenlaser mit 5 Milliwatt handelt, der Wellen der Länge 770-795 Nanometer ausstrahlt. Das Lasersystem und der Drucker sind so konzipiert, daß im Normalbetrieb, bei der Wartung durch den Benutzer oder bei ordnungsgemäßer Wartung durch den Kundendienst Laserbestrahlung, die Klasse I übersteigen würde, Menschen keinesfalls erreicht.

Avis relatif à l'utilisation de laser

Pour les Etats-Unis : cette imprimante est certifiée conforme aux provisions DHHS 21 CFR alinéa J concernant les produits laser de Classe I (1). Pour les autres pays : cette imprimante répond aux normes IEC 60825-1 relatives aux produits laser de Classe I.

Les produits laser de Classe I sont considérés comme des produits non dangereux. Cette imprimante est équipée d'un laser de Classe IIIb (3b) (arséniure de gallium d'une puissance nominale de 5 milliwatts) émettant sur des longueurs d'onde comprises entre 770 et 795 nanomètres. L'imprimante et son système laser sont conçus pour impossible, dans des conditions normales d'utilisation, d'entretien par l'utilisateur ou de révision, l'exposition à des rayonnements laser supérieurs à des rayonnements de Classe I.

Avvertenze sui prodotti laser

Questa stampante è certificata negli Stati Uniti per essere conforme ai requisiti del DHHS 21 CFR Sottocapitolo J per i prodotti laser di classe 1 ed è certificata negli altri Paesi come prodotto laser di classe 1 conforme ai requisiti della norma CEI 60825-1.

I prodotti laser di classe non sono considerati pericolosi. La stampante contiene al suo interno un laser di classe IIIb (3b) all'arseniuro di gallio della potenza di 5mW che opera sulla lunghezza d'onda compresa tra 770 e 795 nanometri. Il sistema laser e la stampante sono stati progettati in modo tale che le persone a contatto con la stampante, durante il normale funzionamento, le operazioni di servizio o quelle di assistenza tecnica, non ricevano radiazioni laser superiori al livello della classe 1.

Avisos sobre el láser

Se certifica que, en los EE.UU., esta impresora cumple los requisitos para los productos láser de Clase I (1) establecidos en el subcapítulo J de la norma CFR 21 del DHHS (Departamento de Sanidad y Servicios) y, en los demás países, reúne todas las condiciones expuestas en la norma IEC 60825-1 para productos láser de Clase I (1).

Los productos láser de Clase I no se consideran peligrosos. La impresora contiene en su interior un láser de Clase IIIb (3b) de arseniuro de galio de funcionamiento nominal a 5 milivatios en una longitud de onda de 770 a 795 nanómetros. El sistema láser y la impresora están diseñados de forma que ninguna persona pueda verse afectada por ningún tipo de radiación láser superior al nivel de la Clase I durante su uso normal, el mantenimiento realizado por el usuario o cualquier otra situación de servicio técnico.

Declaração sobre Laser

A impressora está certificada nos E.U.A. em conformidade com os requisitos da regulamentação DHHS 21 CFR Subcapítulo J para a Classe I (1) de produtos laser. Em outros locais, está certificada como um produto laser da Classe I, em conformidade com os requisitos da norma IEC 60825-1.

Os produtos laser da Classe I não são considerados perigosos. Internamente, a impressora contém um produto laser da Classe IIIb (3b), designado laser de arseneto de potássio, de 5 milliwatts, operando numa faixa de comprimento de onda entre 770 e 795 nanómetros. O sistema e a impressora laser foram concebidos de forma a nunca existir qualquer possibilidade de acesso humano a radiação laser superior a um nível de Classe I durante a operação normal, a manutenção feita pelo utilizador ou condições de assistência prescritas.

Laserinformatie

De printer voldoet aan de eisen die gesteld worden aan een laserprodukt van klasse I. Voor de Verenigde Staten zijn deze eisen vastgelegd in DHHS 21 CFR Subchapter J, voor andere landen in IEC 60825-1.

Laserprodukten van klasse I worden niet als ongevaarlijk aangemerkt. De printer is voorzien van een laser van klasse IIIb (3b), dat wil zeggen een gallium arsenide-laser van 5 milliwatt met een golflengte van 770-795 nanometer. Het lasergedeelte en de printer zijn zo ontworpen dat bij normaal gebruik, bij onderhoud of reparatie conform de voorschriften, nooit blootstelling mogelijk is aan laserstraling boven een niveau zoals voorgeschreven is voor klasse 1.

Lasermeddelelse

Printeren er godkendt som et Klasse I-laserprodukt, i overensstemmelse med kravene i IEC 60825-1.

Klasse I-laserprodukter betragtes ikke som farlige. Printeren indeholder internt en Klasse IIIB (3b)-laser, der nominelt er en 5 milliwatt galliumarsenid laser, som arbejder på bølgelængdeområdet 770-795 nanometer. Lasersystemet og printeren er udformet således, at mennesker aldrig udsættes for en laserstråling over Klasse I-niveau ved normal drift, brugervedligeholdelse eller obligatoriske servicebetingelser.

Previous



Next



Go Back

Huomautus laserlaitteesta

Tämä kirjoitin on Yhdysvalloissa luokan I (1) laserlaitteiden DHHS 21 CFR Subchapter J -määrityksen mukainen ja muualla luokan I laserlaitteiden IEC 60825-1 -määrityksen mukainen.

Luokan I laserlaitteiden ei katsota olevan vaarallisia käyttäjälle. Kirjoittimessa on sisäinen luokan IIIb (3b) 5 milliwatin galliumarsenidilaser, joka toimii aaltoalueella 770 - 795 nanometriä. Laserjärjestelmä ja kirjoitin on suunniteltu siten, että käyttäjä ei altistu luokan I määräytyksiä voimakkaammalle säteilylle kirjoittimen normaalin toiminnan, käyttäjän tekemien huoltotoimien tai muiden huoltotoimien yhteydessä.

VARO! Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteerefer ton.

VARNING! Osynlig laserstrålning när denna del är öppnad och spärren är urkopplad. Betrakta ej strålen.

Previous



Next



Go Back

Laser-notis

Denna skrivare är i USA certifierad att motsvara kraven i DHHS 21 CFR, underparagraf J för laserprodukter av Klass I (1). I andra länder uppfyller skrivaren kraven för laserprodukter av Klass I enligt kraven i IEC 60825-1.

Laserprodukter i Klass I anses ej hälsovådliga. Skrivaren har en inbyggd laser av Klass IIIb (3b) som består av en laserenhet av gallium-arsenid på 5 milliwatt som arbetar i våglängdsområdet 770-795 nanometer.

Lasersystemet och skrivaren är utformade så att det aldrig finns risk för att någon person utsätts för laserstrålning över Klass I-nivå vid normal användning, underhåll som utförs av användaren eller annan föreskriven serviceåtgärd.

Laser-melding

Skriveren er godkjent i USA etter kravene i DHHS 21 CFR, underkapittel J, for klasse I (1) laserprodukter, og er i andre land godkjent som et Klasse I-laserprodukt i samsvar med kravene i IEC 60825-1.

Klasse I-laserprodukter er ikke å betrakte som farlige. Skriveren inneholder internt en klasse IIIb (3b)-laser, som består av en gallium-arsenlaserenhet som avgir stråling i bølgelengdeområdet 770-795 nanometer.

Lasersystemet og skriveren er utformet slik at personer aldri utsettes for laserstråling ut over klasse I-nivå under vanlig bruk, vedlikehold som utføres av brukeren, eller foreskrevne serviceoperasjoner.

Avís sobre el Làser

Segons ha estat certificat als Estats Units, aquesta impressora compleix els requisits de DHHS 21 CFR, apartat J, pels productes làser de classe I (1), i segons ha estat certificat en altres llocs, és un producte làser de classe I que compleix els requisits d'IEC 60825-1.

Els productes làser de classe I no es consideren perillosos. Aquesta impressora conté un làser de classe IIIb (3b) d'arseniür de gal.li, nominalment de 5 mil.liwats, i funciona a la regió de longitud d'ona de 770-795 nanòmetres. El sistema làser i la impressora han sigut concebuts de manera que mai hi hagi exposició a la radiació làser per sobre d'un nivell de classe I durant una operació normal, durant les tasques de manteniment d'usuari ni durant els serveis que satisfacin les condicions prescrites.



レーザーに関するお知らせ

このプリンターは、米国ではDHHS 21 CFRサブチャプターJのクラスI (1) の基準を満たしたレーザー製品であることが証明されています。また米国以外ではIEC 825の基準を満たしたクラスIのレーザー製品であることが証明されています。

クラスIのレーザー製品には危険性はないと考えられています。このプリンターはクラスIII b (3 b) のレーザーを内蔵しています。このレーザーは、波長が770 ~ 795ナノメートルの範囲で、通常5ミリワットのガリウム砒化物を放射するレーザーです。このレーザーシステムとプリンターは、通常の操作、ユーザのメンテナンス、規定された修理においては、人体がクラスIのレベル以上のレーザー放射に晒されることのないよう設計されています。

注意：


本打印机被美国认证合乎 DHHS 21 CFR Subchapter I 对分类 I (1) 激光产品的标准，而在其他地区则被认证合乎 IEC 825 的标准。

分类 I 激光产品一般认为不具危险性，本打印机内部含有分类 IIIb (3b) 的激光，在操作过程中会产生 5 毫瓦含镓及砷的微量激光，其波长范围在 770-795 nm 之间。本激光系统及打印机的设计，在一般操作、使用者维护或规定内的维修情况下，不会使人体接触分类 I 以上等级的辐射。

본프린터는 1등급 레이저 제품들에 대한 DHHS 21 CFR Subchapter 3의 규정을 준수하고 있음을 미국에서 인증받았으며, 그외의 나라에서도 IEC 825 규정을 준수하는 1등급 레이저 제품으로서 인증을 받았습니다.

1등급 레이저 제품들은 안전한 것으로 간주됩니다. 본 프린터는 5 밀리와트 갈륨 아르세나이드 레이저로서 770-795 나노미터의 파장대에서 활동하는 Class III (3b) 레이저를 내부에 갖고 있습니다. 본 레이저 시스템과 프린터는 정상 작동 중이나 유지 보수 중 또는 규정된 서비스 상태에서 상기의 Class I 수준의 레이저 방출에 사람이 절대 접근할 수 없도록 설계되어 있습니다.

Lithium warning

	<p>CAUTION—POTENTIAL INJURY:</p> <p>There is a danger of explosion if a lithium battery is incorrectly replaced. Replace it only with the same or an equivalent type of lithium battery. Do not recharge, disassemble, or incinerate a lithium battery. Discard used batteries according to the manufacturer's instructions and local regulations.</p>
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Previous




Next




Go Back


Safety information

- The safety of this product is based on testing and approvals of the original design and specific components. The manufacturer is not responsible for safety in the event of use of unauthorized replacement parts.
- The maintenance information for this product has been prepared for use by a professional service person and is not intended to be used by others.
- There may be an increased risk of electric shock and personal injury during disassembly and servicing of this product. Professional service personnel should understand this and take necessary precautions.
-  **CAUTION:** When you see this symbol, there is a danger from hazardous voltage in the area of the product where you are working. Unplug the product before you begin, or use caution if the product must receive power in order to perform the task.


Consignes de sécurité

- La sécurité de ce produit repose sur des tests et des agréments portant sur sa conception d'origine et sur des composants particuliers. Le fabricant n'assume aucune responsabilité concernant la sécurité en cas d'utilisation de pièces de rechange non agréées.
- Les consignes d'entretien et de réparation de ce produit s'adressent uniquement à un personnel de maintenance qualifié.
- Le démontage et l'entretien de ce produit pouvant présenter certains risques électriques, le personnel d'entretien qualifié devra prendre toutes les précautions nécessaires.
-  **ATTENTION :** Ce symbole indique la présence d'une tension dangereuse dans la partie du produit sur laquelle vous travaillez. Débranchez le produit avant de commencer ou faites preuve de vigilance si l'exécution de la tâche exige que le produit reste sous tension.

Norme di sicurezza

- La sicurezza del prodotto si basa sui test e sull'approvazione del progetto originale e dei componenti specifici. Il produttore non è responsabile per la sicurezza in caso di sostituzione non autorizzata delle parti.
- Le informazioni riguardanti la manutenzione di questo prodotto sono indirizzate soltanto al personale di assistenza autorizzato.
- Durante lo smontaggio e la manutenzione di questo prodotto, il rischio di subire scosse elettriche e danni alla persona è più elevato. Il personale di assistenza autorizzato deve, quindi, adottare le precauzioni necessarie.
-  **ATTENZIONE:** Questo simbolo indica la presenza di tensione pericolosa nell'area del prodotto. Scollegare il prodotto prima di iniziare o usare cautela se il prodotto deve essere alimentato per eseguire l'intervento.

Sicherheitshinweise

- Die Sicherheit dieses Produkts basiert auf Tests und Zulassungen des ursprünglichen Modells und bestimmter Bauteile. Bei Verwendung nicht genehmigter Ersatzteile wird vom Hersteller keine Verantwortung oder Haftung für die Sicherheit übernommen.
- Die Wartungsinformationen für dieses Produkt sind ausschließlich für die Verwendung durch einen Wartungsfachmann bestimmt.
- Während des Auseinandernehmens und der Wartung des Geräts besteht ein zusätzliches Risiko eines elektrischen Schlags und körperlicher Verletzung. Das zuständige Fachpersonal sollte entsprechende Vorsichtsmaßnahmen treffen.
-  **ACHTUNG:** Dieses Symbol weist auf eine gefährliche elektrische Spannung hin, die in diesem Bereich des Produkts auftreten kann. Ziehen Sie vor den Arbeiten am Gerät den Netzstecker des Geräts, bzw. arbeiten Sie mit großer Vorsicht, wenn das Produkt für die Ausführung der Arbeiten an den Strom angeschlossen sein muß.

Previous




Next




Go Back


Pautas de Seguridad

- La seguridad de este producto se basa en pruebas y aprobaciones del diseño original y componentes específicos. El fabricante no es responsable de la seguridad en caso de uso de piezas de repuesto no autorizadas.
- La información sobre el mantenimiento de este producto está dirigida exclusivamente al personal cualificado de mantenimiento.
- Existe mayor riesgo de descarga eléctrica y de daños personales durante el desmontaje y la reparación de la máquina. El personal cualificado debe ser consciente de este peligro y tomar las precauciones necesarias.
-  **PRECAUCIÓN:** este símbolo indica que el voltaje de la parte del equipo con la que está trabajando es peligroso. Antes de empezar, desenchufe el equipo o tenga cuidado si, para trabajar con él, debe conectarlo.

Informações de Segurança

- A segurança deste produto baseia-se em testes e aprovações do modelo original e de componentes específicos. O fabricante não é responsável pela segurança, no caso de uso de peças de substituição não autorizadas.
- As informações de segurança relativas a este produto destinam-se a profissionais destes serviços e não devem ser utilizadas por outras pessoas.
- Risco de choques eléctricos e ferimentos graves durante a desmontagem e manutenção deste produto. Os profissionais destes serviços devem estar avisados deste facto e tomar os cuidados necessários.
-  **CUIDADO:** Quando vir este símbolo, existe a possível presença de uma potencial tensão perigosa na zona do produto em que está a trabalhar. Antes de começar, desligue o produto da tomada eléctrica ou seja cuidadoso caso o produto tenha de estar ligado à corrente eléctrica para realizar a tarefa necessária.

Informació de Seguretat

- La seguretat d'aquest producte es basa en l'avaluació i aprovació del disseny original i els components específics.
El fabricant no es fa responsable de les qüestions de seguretat si s'utilitzen peces de recanvi no autoritzades.
- La informació pel manteniment d'aquest producte està orientada exclusivament a professionals i no està destinada a ningú que no ho sigui.
- El risc de xoc elèctric i de danys personals pot augmentar durant el procés de desmuntatge i de servei d'aquest producte. El personal professional ha d'estar-ne assabentat i prendre les mesures convenients.
-  **PRECAUCIÓ:** aquest símbol indica que el voltatge de la part de l'equip amb la qual esteu treballant és perillós. Abans de començar, desendolieu l'equip o extremeu les precaucions si, per treballar amb l'equip, l'heu de connectar.

Previous




Next




Go Back

안전 사항

- 본 제품은 원래 설계 및 특정 구성품에 대한 테스트 결과로 안정성이 입증된 것입니다. 따라서 무허가 교체부품을 사용하는 경우에는 제조업체에서 안전에 대한 책임을 지지 않습니다.
- 본 제품에 관한 유지 보수 설명서는 전문 서비스 기술자용으로 작성된 것이므로, 비전문가는 사용할 수 없습니다.
- 본 제품을 해체하거나 정비할 경우, 전기적인 충격을 받거나 상처를 입을 위험이 커집니다. 전문 서비스 기술자는 이 사실을 숙지하고, 필요한 예방 조치를 취하도록 하십시오.
-  **주의:** 이 표시는 해당영역에서 고압전류가 흐른다는 위험 표시입니다. 시작전에 플러그를 뽑으시거나, 주의를 기울여 주시기 바랍니다.

安全信息

- 本产品的安全性以原来设计和特定产品的测试结果和认证为基础。万一使用未经许可的替换部件，制造商不对安全性负责。
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Preface

Service information for the Lexmark X860de, X862de, and X864de is contained within two service manuals:

- *MFP Service Manual*—Contains specific service information for the MFP and includes the options error codes.
- *Options Service Manual*—Contains specific service information for the 2X 500-Sheet Drawer (2TM), High Capacity Feeder, and Finisher.

This manual contains maintenance procedures for service personnel. It is divided into the following chapters:

1. **General information** contains a general description of the printer and the maintenance approach used to repair it. Special tools and test equipment are required, as well as general environmental and safety instructions.
2. **Diagnostic information** contains an error indicator table, symptom tables, and service checks used to isolate failing field replaceable units (FRUs).
3. **Diagnostic aids** contains tests and checks used to locate or repeat symptoms of printer problems.
4. **Repair information** provides instructions for making adjustments and removing and installing FRUs.
5. **Component locations** uses illustrations to identify the component locations and test points on the printer.
6. **Preventive maintenance** contains the lubrication specifications and recommendations to prevent problems.
7. **Parts catalog** contains illustrations and part numbers for individual FRUs.

Change history

Revision date	Updates
2013/9/20	Updated the Media guide rack and pinion removals and parts catalog entries.
2013/02/18	Changed PN 40X5931 to 40X5985 in Assembly 13: Fuser.
2012/08/24	Changed PN 40X2223 to 40X3688 for the following parts: <ul style="list-style-type: none"> • Sensor (Pick Roll Position HP) in “ADF left cover components” on page 7-55 • Sensor (ADF pre-registration) in “ADF media guide” on page 7-57 • Sensor (ADF width APS 1) in “ADF media guide” on page 7-57 • Sensor (ADF width APS 2) in “ADF media guide” on page 7-57 • Sensor (ADF width APS 3) in “ADF media guide” on page 7-57 • Sensor (ADF inverter) in “ADF media guide” on page 7-57 • Sensor (document set) in “ADF feeder roll” on page 7-59 • Sensor (sheet through) in “ADF motor unit” on page 7-61 • Sensor (document tray width 1) in “ADF document tray” on page 7-63 • Sensor (document tray width 2) in “ADF document tray” on page 7-63 • Sensor (document tray width 3) in “ADF document tray” on page 7-63
2011/11/09	Added the Scanner and TTM assembly wiring diagrams.





Conventions

Note: A note provides additional information.

Warning: A warning identifies something that might damage the product hardware or software.



There are several types of caution statements:

	<p>CAUTION—POTENTIAL INJURY: A caution identifies something that might cause a servicer harm.</p>
	<p>CAUTION—SHOCK HAZARD: This type of caution indicates there is a danger from hazardous voltage in the area of the product where you are working. Unplug the product before you begin, or use caution if the product must receive power in order to perform the task.</p>
	<p>CAUTION—HOT SURFACE: This type of caution indicates a hot surface.</p>
	<p>CAUTION—TIPPING HAZARD: This type of caution indicates a tipping hazard.</p>

Previous



Next



Go Back

Previous



Next



Go Back

1. General information

The Lexmark™ X860 Series is a family of multi-function printers that integrate print, scan, copy, and fax (standard or optional) functionality. All information in this service manual pertains to all models unless explicitly noted.

Models

Model name	Machine type	Model configuration
Lexmark X860de	7500-432	with cabinet
Lexmark X862de	7500-632	with cabinet + 2 x 500-sheet drawer (2TM)
Lexmark X864de	7500-832	with cabinet + 2000-sheet dual input (TTM)

Printer technology

- Monochrome laser
- 9" color LCD operator panel with touch panel user interface
- A3/Tabloid size flatbed color scanner
- Recirculation ADF
- Duplex printing integrated

Maximum resolution

- Up to 1200 x 1200 dpi

Processor

- 800 MHz

Memory

- Standard: 256 MB
- Maximum: 1280 MB
- Hard drive: 80 GB

Standard connectivity

- Ethernet
- USB

Optional connectivity

- Parallel
- Serial
- Wireless 802.11g adapter

Previous



Next



Go Back

Operating systems—printer driver

- Microsoft Windows
- Linux
- Mac OS
- Novell
- UNIX

Emulation

- PCL 6
- PostScript 3
- PPDS Migration Tool
- XPS
- PDF v1.6
- HTML
- Direct Image

Fonts

- PCL 6 emulation
 - Scalable: 89 (84 plus 5 special)
 - Bit mapped: 2
- PostScript 3 emulation
 - Scalable: 158
- PPDS
 - Scalable: 39
 - Bit mapped: 5
- PDF 1.6

Paper capacity

- Input
 - Standard: 5 sources for 3,100 sheets
 - Maximum: 6 sources for 5,100 sheets
- Output
 - Standard: 1 bin for 500 sheets
 - Maximum: 2 bins—one with finisher—for 3,800 sheets

Previous



Next



Go Back

Paper handling

- Input
 - Standard
 - 100-sheet multipurpose feeder
 - Two 500-sheet trays
 - 2,000-sheet dual input drawer (one 850-sheet tray and one 1,150-sheet tray)
 - Optional
 - 2,000-sheet high capacity feeder
- Output
 - Standard
 - 500-sheet output (reduced to 300 sheets, if finisher is installed)
 - Optional
 - Finisher (3-hole or 4-hole punch)
 - Finisher bin 1: 500 sheets
 - Finisher bin 2: Up to 3,000 sheets

Previous



Next



Go Back

Media types

- Plain paper, envelopes, card stock, transparencies, paper labels

Media weights

- Plain paper: 17 to 28 lb.
- Card stock: Up to 90 lb. index

Size and weight—without finisher

- Size: W x D x H—25 x 26 x 43 in. (640 x 700 x 1095 mm)
- Weight: 233 lb. (106 kg)

Duty cycle

- Printer
 - 300,000 pages per month maximum, based on a single-month's usage
- Standard warranty
 - One year On-Site or 600,000 pages, whichever comes first

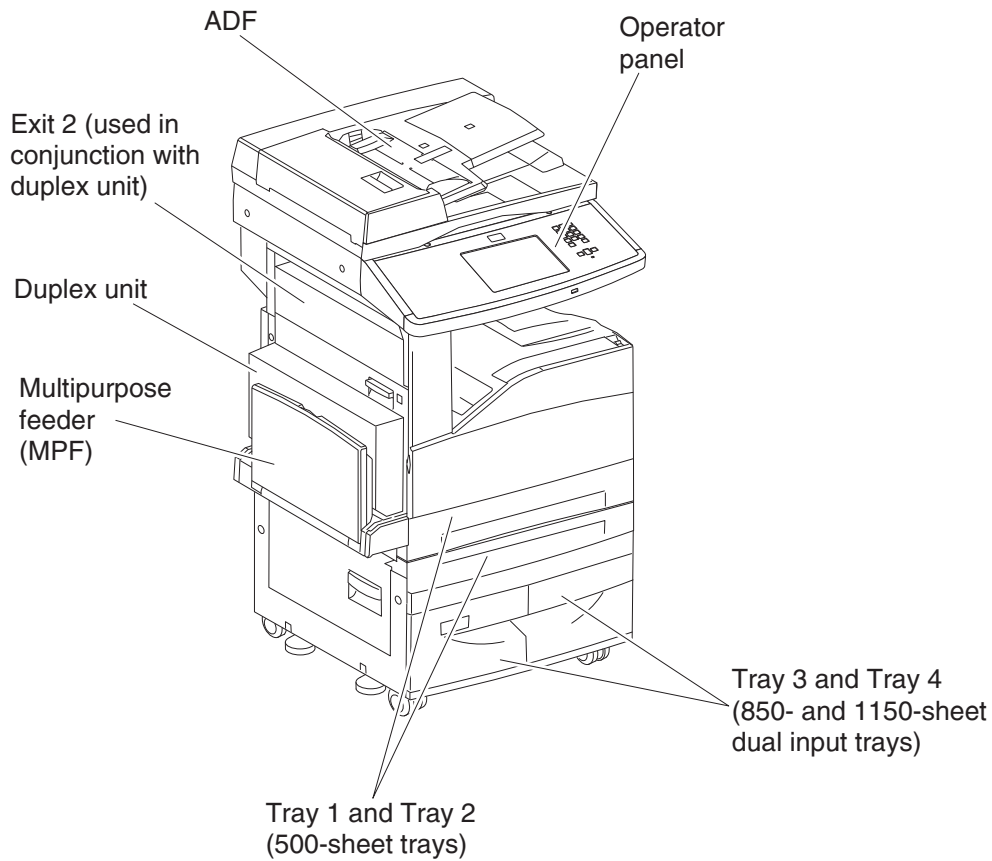
Printer overview



CAUTION: Do not set up this product or make any electrical or cabling connections, such as the power cord or options and features, during a lightning storm.

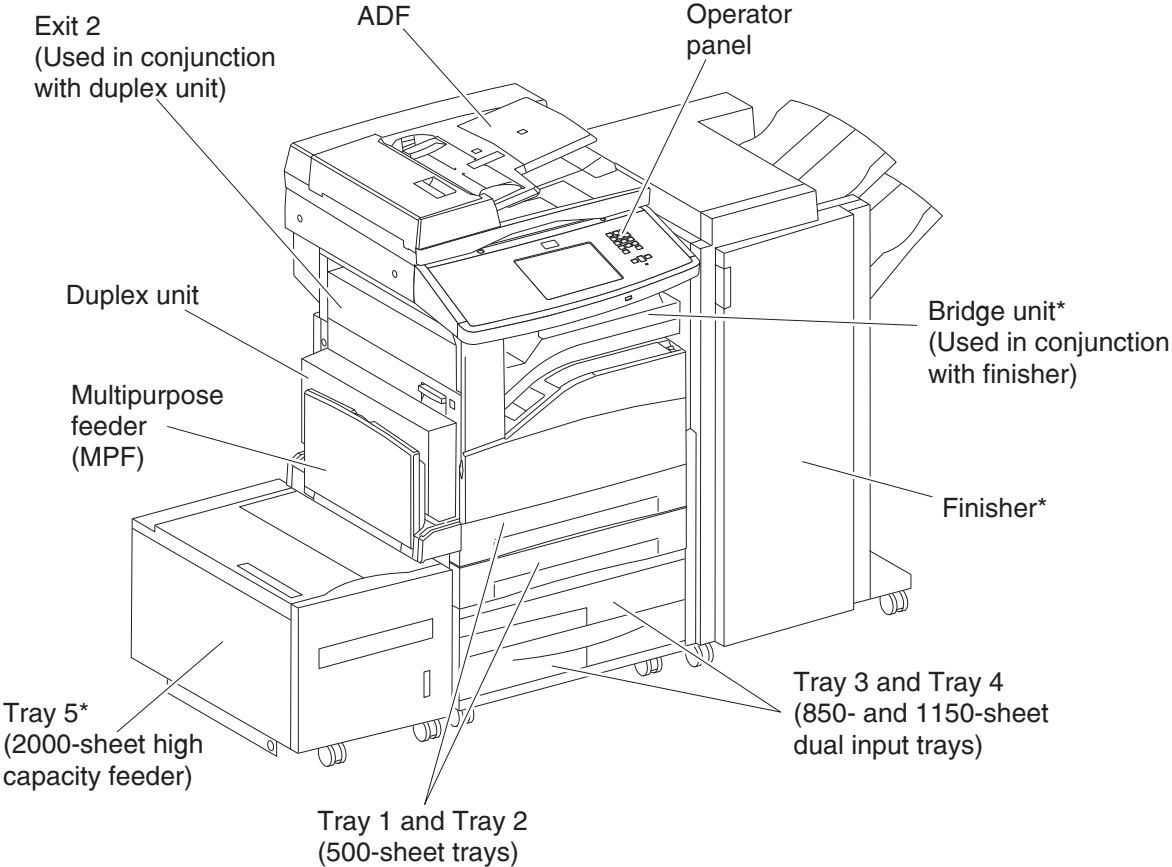
Basic model

The following illustration shows a printer with its base features.



Configured model

The following illustration shows a fully configured printer. Items denoted with an asterisk (*) are options.



Previous



Next



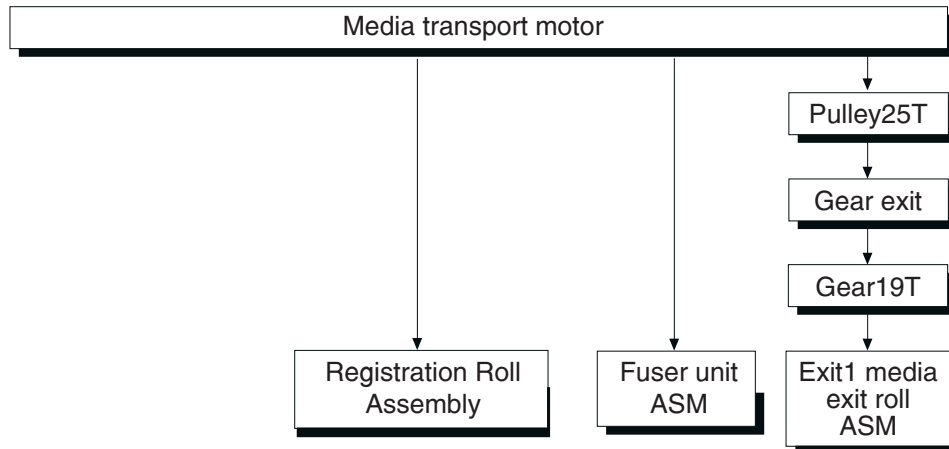
Go Back

Printer theory

Driving force transmission path

Media transport motor

The rotating force of the transport motor is transmitted through the gear and the pulley (25 tooth) to components that need mechanical driving force as shown in the following diagram.



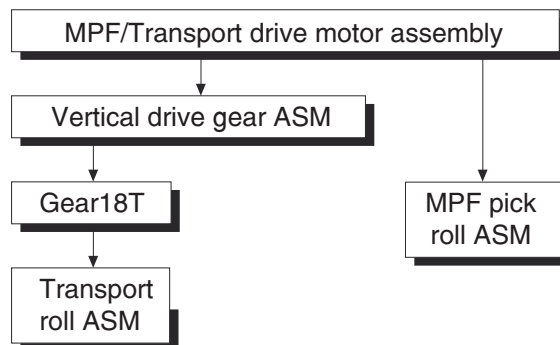
The driving force transmitted to the gear drives the transport roll assembly, multipurpose feeder (MPF) feed roll, registration roll assembly, fuser assembly, and exit 1 media exit roll assembly through the clutch and gears.

The driving force transmitted to the pulley (25 tooth) drives the exit 1 media exit roll assembly through the gears.

The driving force transmitted to the fuser assembly drives the heat roll.

MPF/transport drive motor

The rotating force of the transport motor is transmitted through the gear and the pulley (25 tooth) to components that need mechanical driving force as shown in the following diagram.



The MPF/transport drive motor provides the driving force transmitted to the gear drives, the transport roll assembly, and the multipurpose feeder (MPF) pick roll.

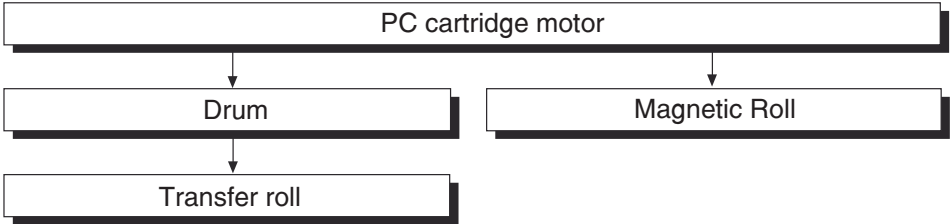
The driving force transmitted to the pulley (25 tooth) drives the exit 1 media exit roll assembly through the gears.

The driving force transmitted to the fuser assembly drives the heat roll.



PC cartridge motor

The rotating force of the PC cartridge motor is transmitted through the gears to components that need a mechanical driving force as shown in the following diagram.



The driving force transmitted to the PC cartridge drives the drum. The driving force is then transmitted to the transfer roll assembly by direct contact with the drum.

Previous



Next

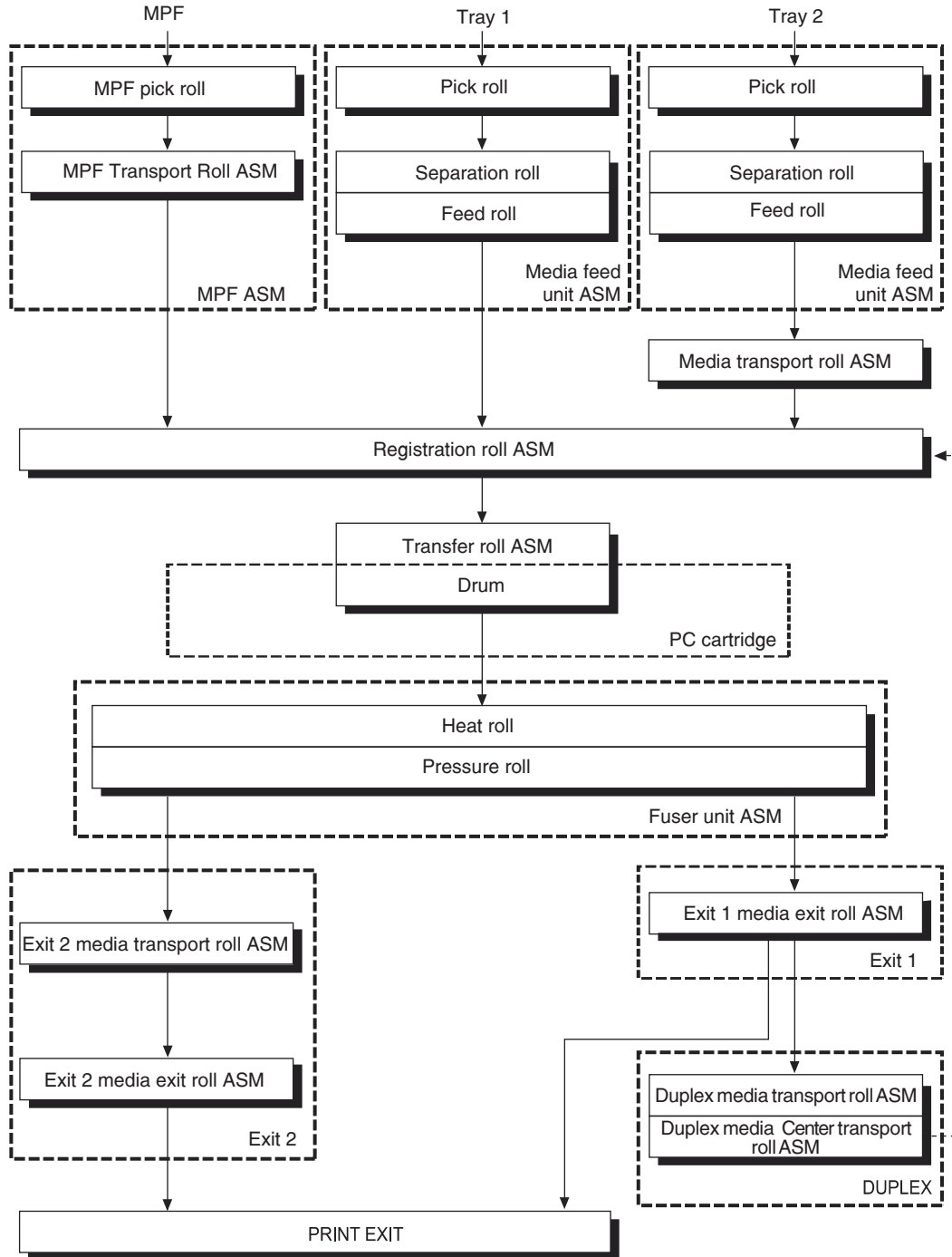


Go Back

Media transport

Media transport path

Media is supplied from the MPF, tray 1 or tray 2, and is transported to the printer along the media transport path shown below.



Previous



Next

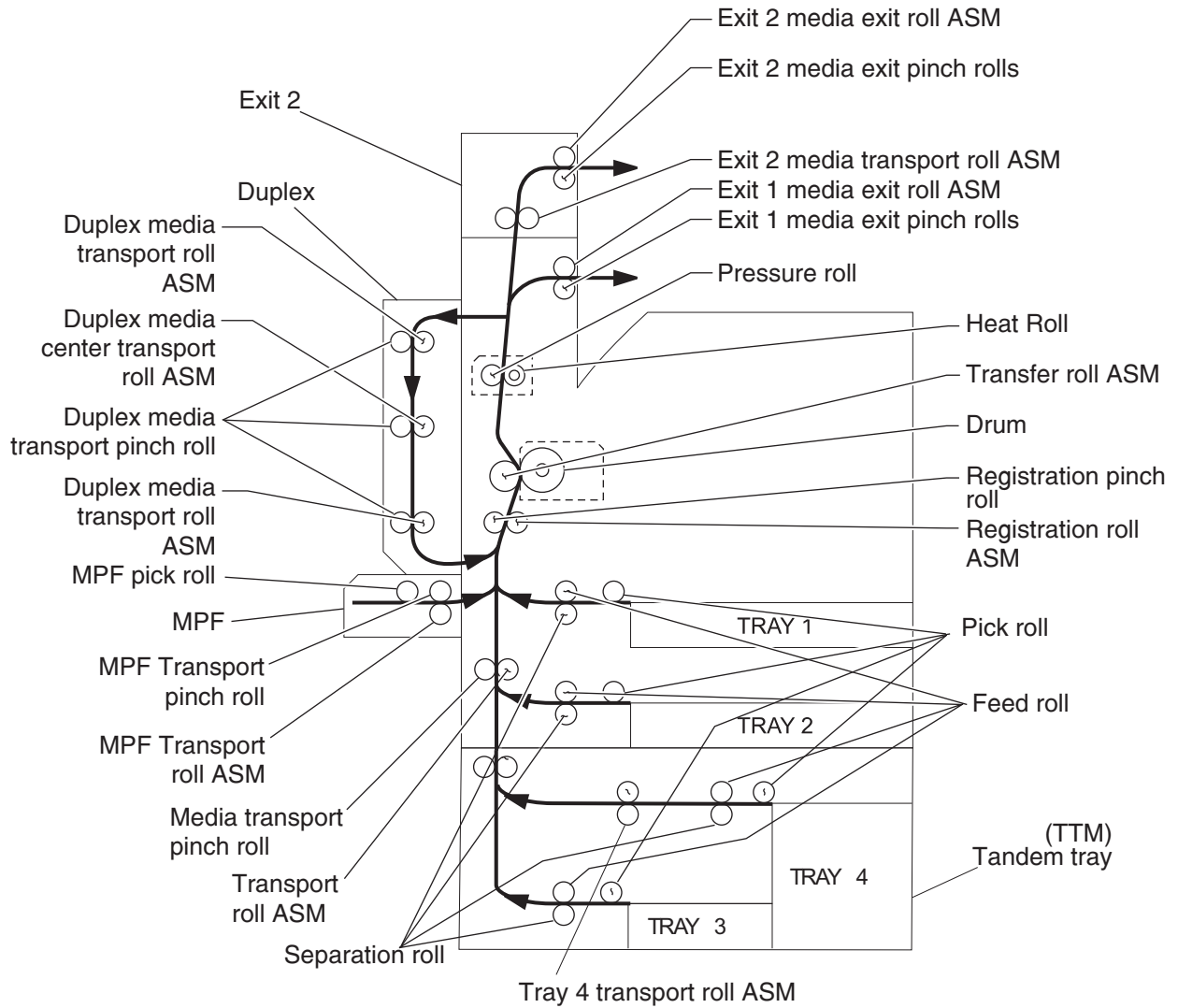


Go Back

Media transport path layout

The following is a cross section of the laser printer, showing main components directly associated with the media path and transport.

Main components associated with transport of media



Previous



Next



Go Back

Functions of main components

- Media tray assembly
- Media feed unit assembly
- MPF
- Xerographics
- Fuser
- Drive
- Electrical components and rolls

Previous



Next



Go Back

Media tray assembly

It is necessary to adjust the front media tray guide assembly, rear media tray guide and media tray end guide of the media tray assembly to match the media size.

Front media tray guide assembly and rear media guide

The front media tray guide assembly can be adjusted to different media sizes by moving the guides to the front or rear. These guides come into contact with the media and hold it in position.

The rear media tray guide moves together with the front media tray guide assembly.

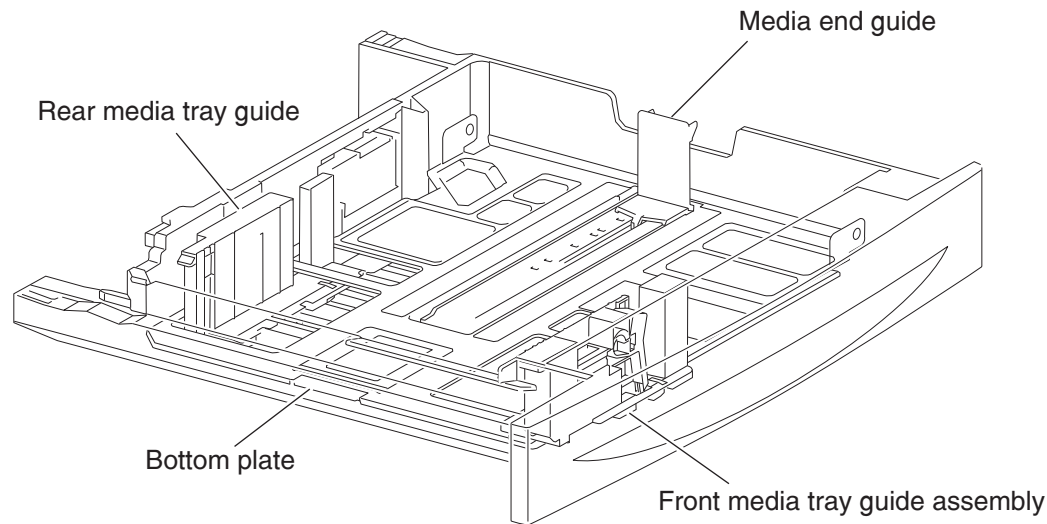
Media tray end guide

The media tray assembly is designed so it can adapt to the media length in the media feed direction by moving the media tray end guide to the left or right.

Bottom plate

The force pushing up the bottom plate is transmitted by the driving force of the motor on the media feed unit assembly to the lift up shaft through the gear (13/60 tooth) and sector gear (12 tooth). The bottom plate is pushed up by the rotation of the lift up shaft, which causes the supplied media to come in contact with the pick roll.

Media tray assembly



Previous



Next



Go Back

Detection of media size

The media size set for the media tray assembly is transmitted to the switch (media size) by moving these guides. The media size is detected by the on/off information of these switches.

Media feed unit assembly

Since tray 1 and tray 2 are functionally equivalent in terms of the switch (media size), sensor (media out), sensor (media level) and sensor (pre-feed), only the components of one tray are described here.

The media feed unit assembly is a mechanical unit supplying media from the media tray assembly to the printer. The driving force, from the media feed lift motor on the media feed unit assembly, is transmitted to the three media feed rolls to feed media.

When the pick roll picks up media, the remaining media decreases, and the actuator of the sensor (media level) lowers accordingly. When the sensor (media level) detects the lowering, the media feed lift motor is activated to lift the lift up shaft and the bottom plate accordingly. Thus, the remaining media is ready to be fed.

Media feed lift motor

This motor is activated to feed media and to lift the bottom plate. When feeding media, it rotates forward to drive the pick roll. When lifting the bottom plate, it rotates reversely to drive the tray module gears to lift the lift up shaft.

Switch (media size)

This switch (media size) sets the size of media supplied from each media tray assembly. A signal indicating the media size is transmitted as a voltage to the printer engine card assembly.

Sensor (media out)

If media runs out in a media tray assembly, the actuator lowers and the actuator flag, unlocks the sensing area of the sensor (media out). The sensor light is transmitted. When the sensing area is blocked (media is present), the signal is off.

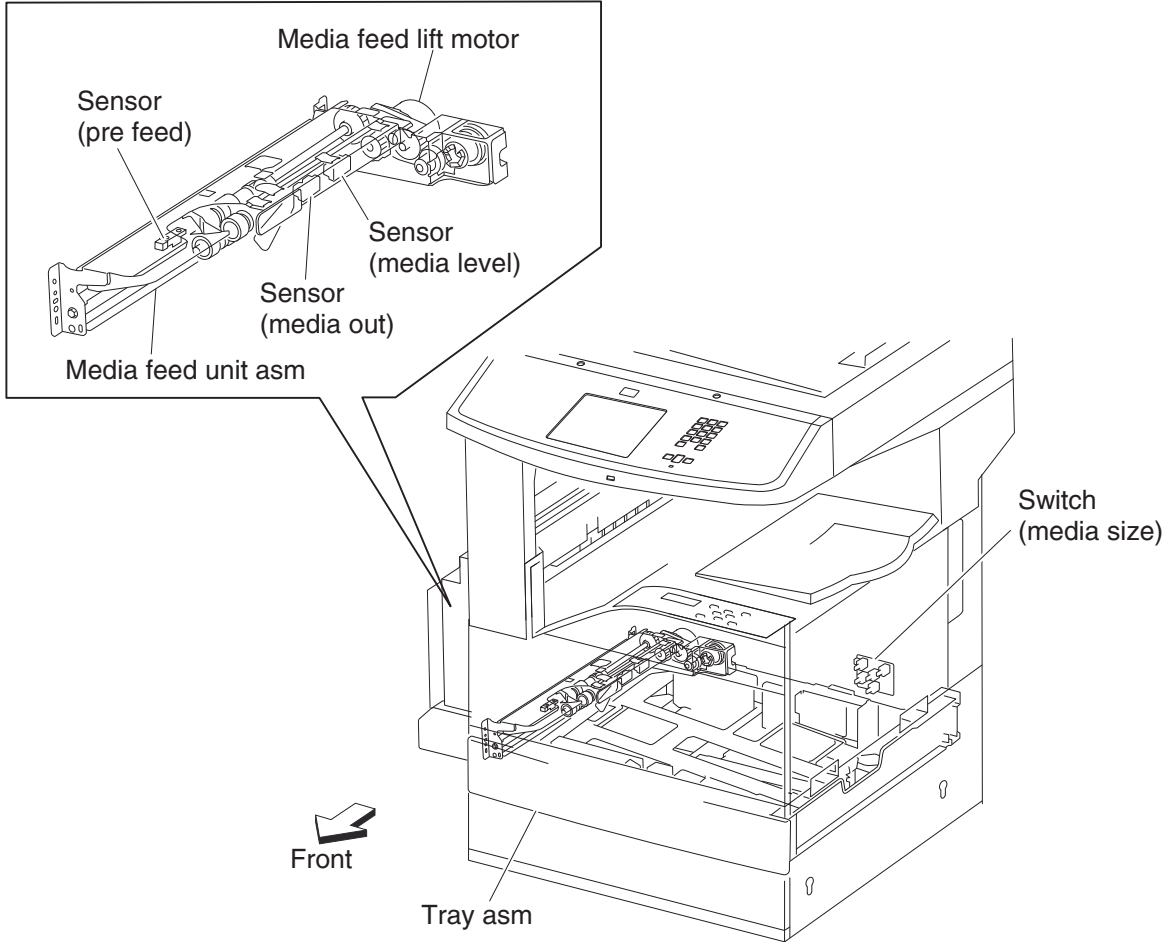
Sensor (media level)

This sensor detects by the actuator position whether media in the media tray assembly is lifted. When the flag of the actuator unblocks the sensing area of the sensor (media level), the sensor detects that the media has been lifted.

Sensor (pre-feed)

This sensor detects a media jam in the media tray assembly by the media position and sensor on/off time.

The sensor on/off states can be monitored by media passing through the sensor (pre-feed) sensing area.



Previous



Next



Go Back

Multi-purpose feeder (MPF)

The MPF is a mechanical unit supplying media to the printer. The driving force from the transport motor of the dual drive motor assembly is transmitted to the MPF feed roll to feed media.

MPF pick roll

The MPF pick roll feeds media set on the MPF and into the feeder.

MPF pick solenoid

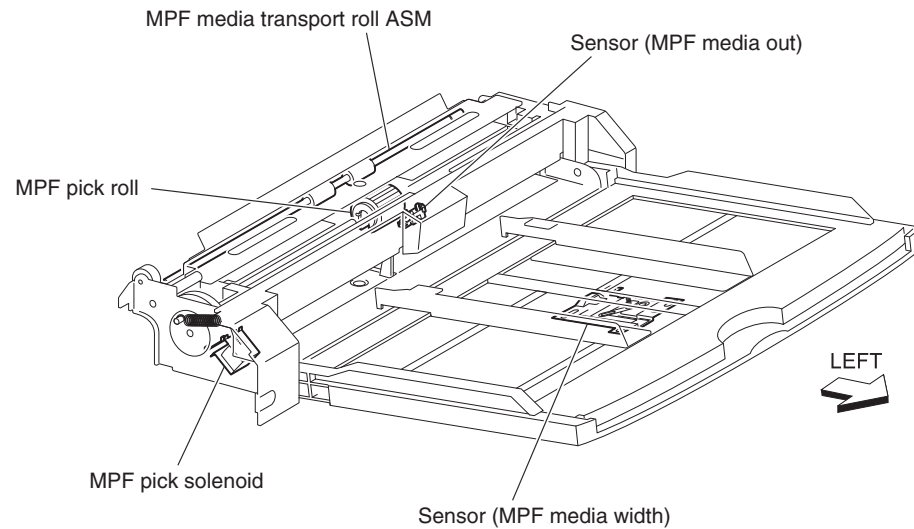
The MPF pick solenoid transmits the driving force from the main motor to the MPF pick roll.

Sensor (MPF media out)

The sensor (MPF media out) detects whether media is present on the MPF.

Sensor (MPF media width)

The MPF side guides detects the width (length in the main scanning direction) of media on the MPF.



Previous



Next



Go Back

Detecting media size

The size of media on the MPF is transmitted by moving the MPF side guide, and is determined by the printer engine card assembly.

Media sizes that can be automatically detected are as follows:

Media size	Width (mm)	Feed length (mm)
Side-guide stopper (min.)	84	-
Media detection area (min.)	88	-
3.5" x 8.5" SEF	89	216
Postcard SEF	102	152
5.5" x 8.5" SEF	140	216
Postcard LEF	148	100
A6 LEF	148	105
A5 SEF	148	210
Postcard LEF	152	102
B6 LEF	182	129
B5 SEF	182	257
Monarch LEF	191	98
A5 LEF	210	148
A4 SEF	210	297
5.5" x 8.5" LEF	216	140
5.5" x 11" SEF (Letter)	216	279
5.5" x 13" SEF (Legal)	216	330
5.5" x 14" SEF (Legal)	216	356
DL LEF	220	110
C5 LEF	229	162
C4 SEF	229	324
Rectangular LEF	235	120
Com10 LEF	241	105
B5 LEF	257	182
B4 SEF	257	364
Executive LEF	267	184
16K LEF TFX (PRC)	267 (270)	194 (195)
8K SEF TFX (PRC)	267 (270)	389 (390)
8.5" x 11" SEF (Letter)	279	216
11" x 17" LEF	279	432
A4 LEF	297	210
A3 SEF	297	420
Stopper (max)	303	-

Previous



Next



Go Back

Registration

Sensor (registration)

The sensor (registration) must be installed before the registration roll assembly can detect whether media exists in the registration path.

Registration clutch

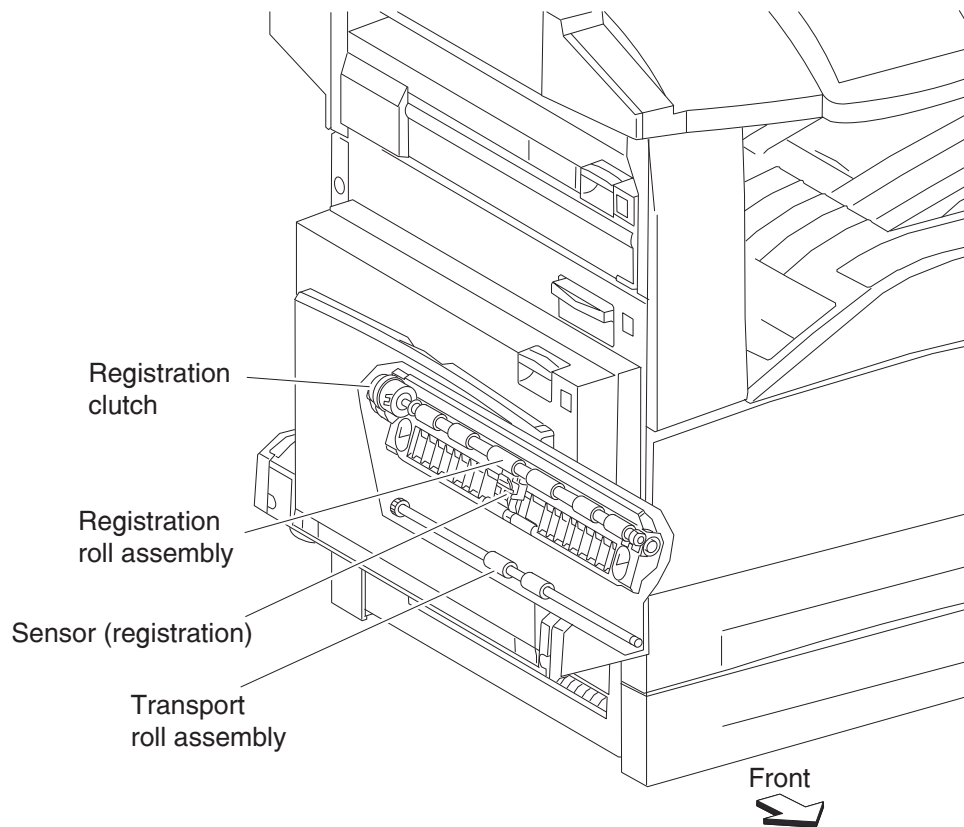
The registration clutch transmits the drive force of the main motor to the registration roll assembly.

Transport roll assembly

The transport roll assembly feeds paper from the tray 2, TTM, and optional tray to the PC cartridge and fuser.

Registration roll assembly

The registration roll assembly feeds paper from the tray 2, TTM, and optional tray or MPF to the PC cartridge and the fuser.



Transfer roll assembly

The transfer roll assembly is driven by direct contact with the drum of the PC cartridge.

The transfer roll assembly applies positive charges to the rear surface of the media when the media passes between the transfer roll assembly and the drum. The negatively charged toner image is attracted by positive

Previous

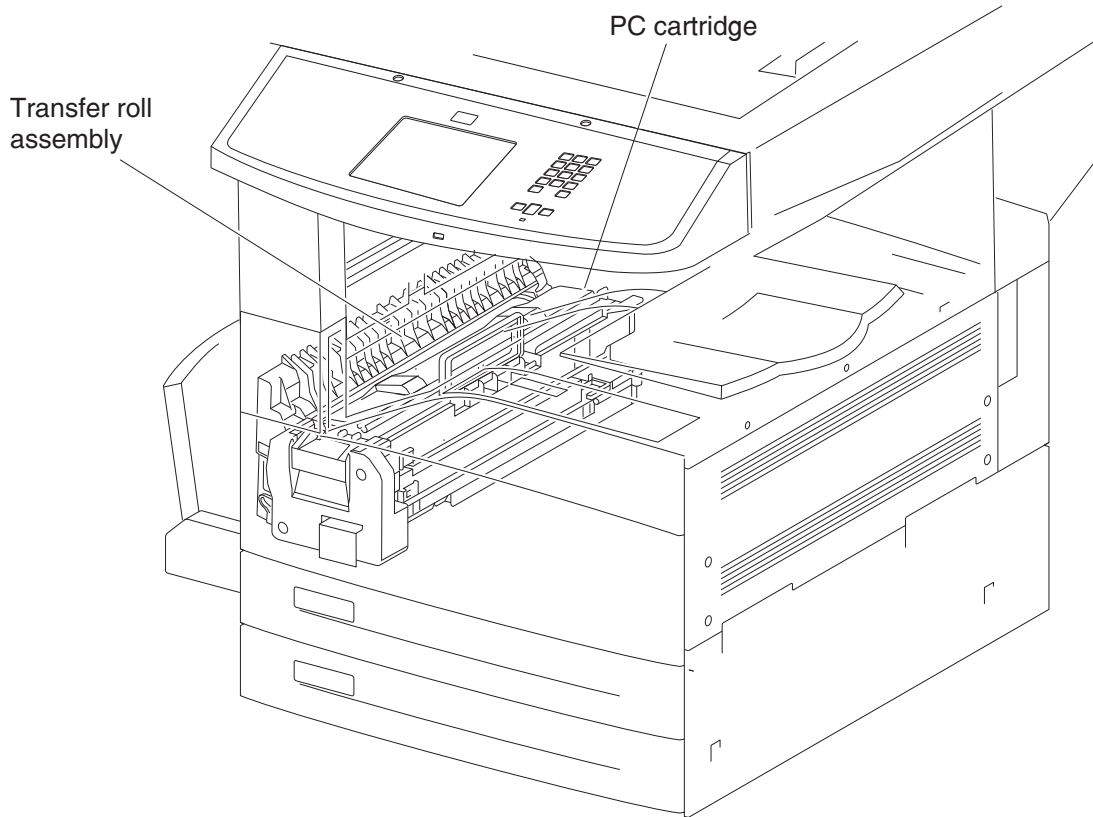


Next



Go Back

charges on the rear surface of the media. Thus, the toner image is transferred from the drum surface to the media surface.



Previous



Next



Go Back

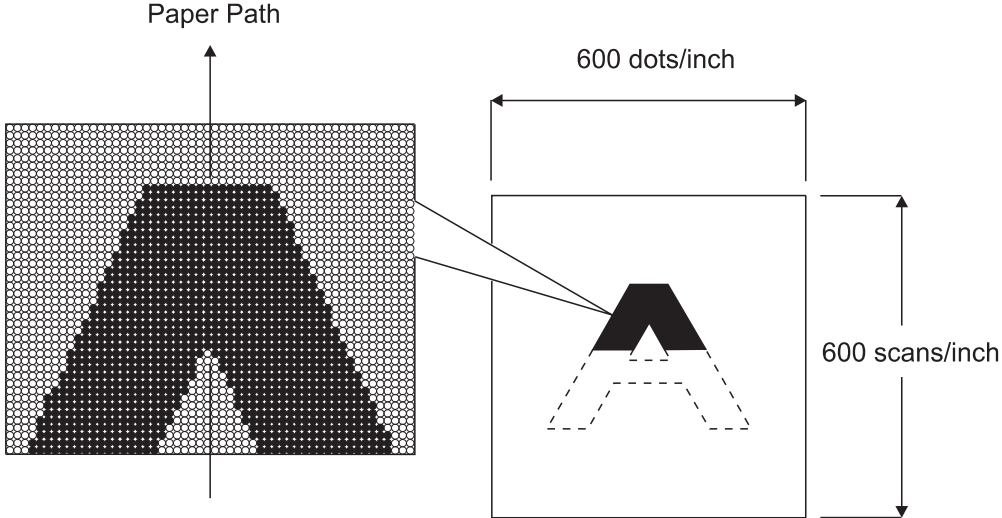
Printhead assembly

The printhead scans the drum surface with a laser beam. It consists of four components: laser diode (LD) card assembly, printhead motor, polygon mirror, and start of scan card assembly.

1. LD card assembly — generates a laser beam with the two LDs of LD1 and LD2. The beam is turned on or off according to a print data signal.
2. Printhead motor/polygon mirror — the polygon mirror is mounted to the shaft of the printhead motor, and is rotated at a high speed by the printhead motor. The mirror rotation shifts the incidence and reflection angles of a laser beam to scan the laser beam in the drum axial direction. The laser beam reaches the polygon mirror as it passes through the lens (L1), lens (L2), and window. The laser beam then arrives at the drum surface.
3. SOS card assembly — when a laser beam hits the SOS sensor on the SOS card assembly, the beam is converted to an electrical signal (SOS signal), and detects the initial position where a scan starts on each line.

When a laser beam is scanned across the drum surface from one end to the other while turning on and off the beam, one line of latent image is created. If the scanning by the laser beam is repeated while rotating the drum, a two-dimensional image is created. The resolution in the scanning direction (from right to left) is determined by the rotational speed of the printhead motor, depending on how quickly the laser is adjusted. The resolution in the process direction (from top to bottom) is determined by the rotational speed of the printhead motor. (The higher the scanning speed becomes, the sooner the scanning of the next row can be started.)

Conceptual diagram of an image created by scanning



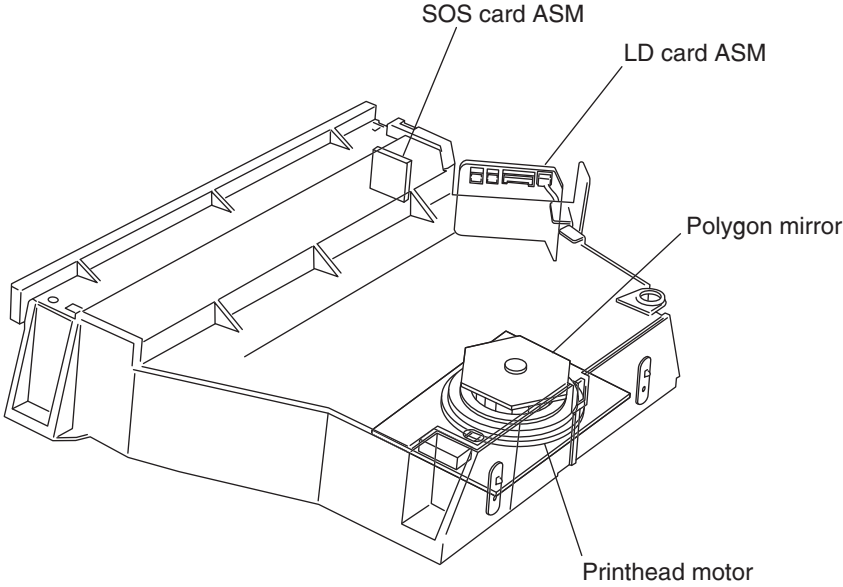
Previous



Next



Go Back



Fuser

Heat roll

The heat roll is a hollow metal tube with a coated surface. This tube is heated by the inner heater lamp. The heat is applied to the media passing between the heat roll and pressure roll, fusing the toner on the media.

Pressure roll

The pressure roll is a metal shaft coated with sponge rubber. Pressure is applied to the media between the pressure roll and heat roll, pressing the melted toner against the media.

Heater lamp

The heater rod of the lamp is compressed of a quartz glass tube containing a heater coil. A terminal is mounted to the end of the heater rod via a harness. Three heater lamps are provided: the main heater rod to heat entire heat roll, and the sub heater lamp 1 and 2 to heat the central portion of the heat roll.

Thermostat

If the heat roll temperature exceeds the preset temperature, the thermostat cuts off the circuits of the main heater rod and sub heater rods 1 and 2.

Center thermistor

The center thermistor monitors the surface temperature of the media-feed portion of the heat roll to control on/off of the main heater lamp and sub heater lamps 1 and 2.

Rear thermistor

The rear thermistor monitors the surface temperature at the rear side of the heat roll to switch the heater lamp to on.

Pressure roll thermistor

The pressure roll thermistor monitors the temperature of the pressure roll to control the idling time for fuser warm-up before printing.

Previous



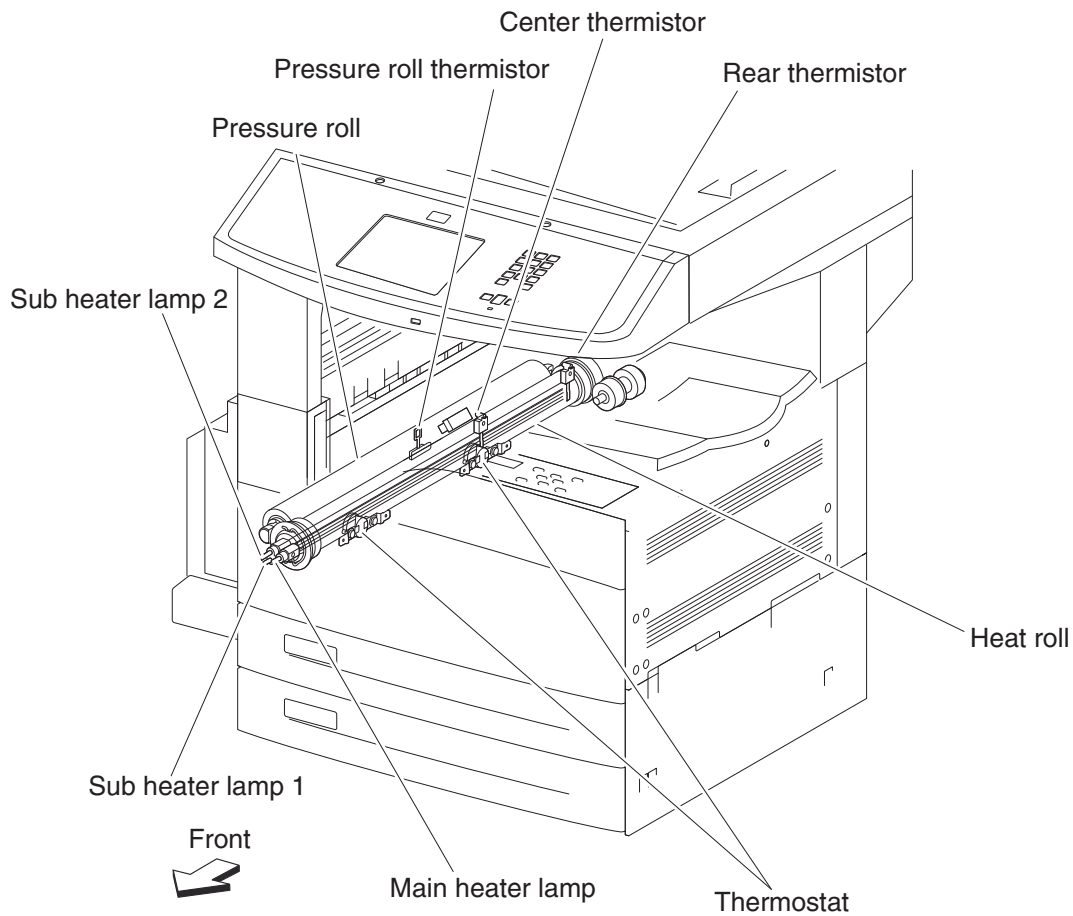
Next



Go Back

Fuser exit sensor

The fuser exit sensor detects the arrival of media at the detection point in the exit area of the fuser, and also detects the ejection of media from this point.



Previous



Next



Go Back

Exit

Exit 1 ejects printed media from the printer to the standard bin 1. With the exit 2 installed, it is also possible to eject media to the standard bin 2 by changing the orientation of the diverter gate on the exit 1.

Dual drive motor assembly

Drives the exit 1 media exit roll assembly that feeds media to each bin.

Exit 1 media exit roll assembly

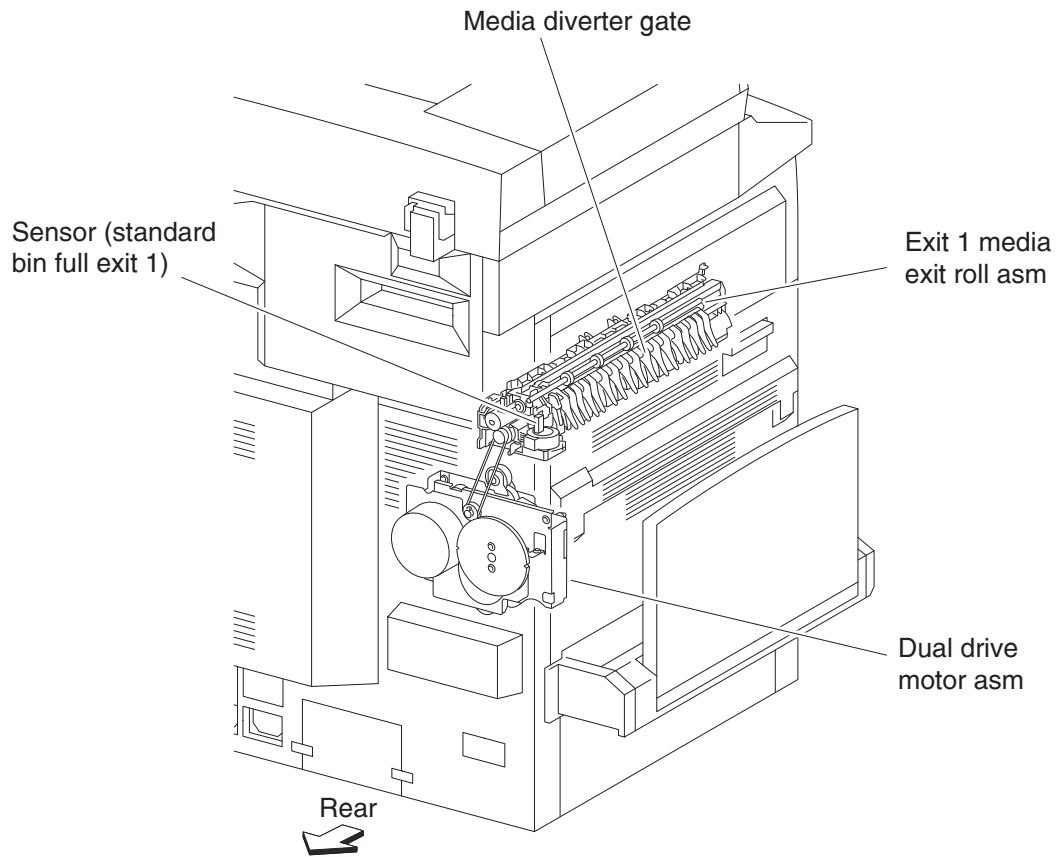
The exit 1 media exit roll assembly feeds printed media from the fuser to the standard bins.

Sensor (standard bin full exit 1)

The sensor (standard bin 1 full) detects whether the exit 1 face down tray is full by moving the actuator up and down.

Media diverter gate

The media diverter gate switches the media transport path. When the media diverter gate is lifted, media is fed to the standard bin exit 1. When it is lowered, media is fed to the standard bin exit 2.



Previous



Next



Go Back

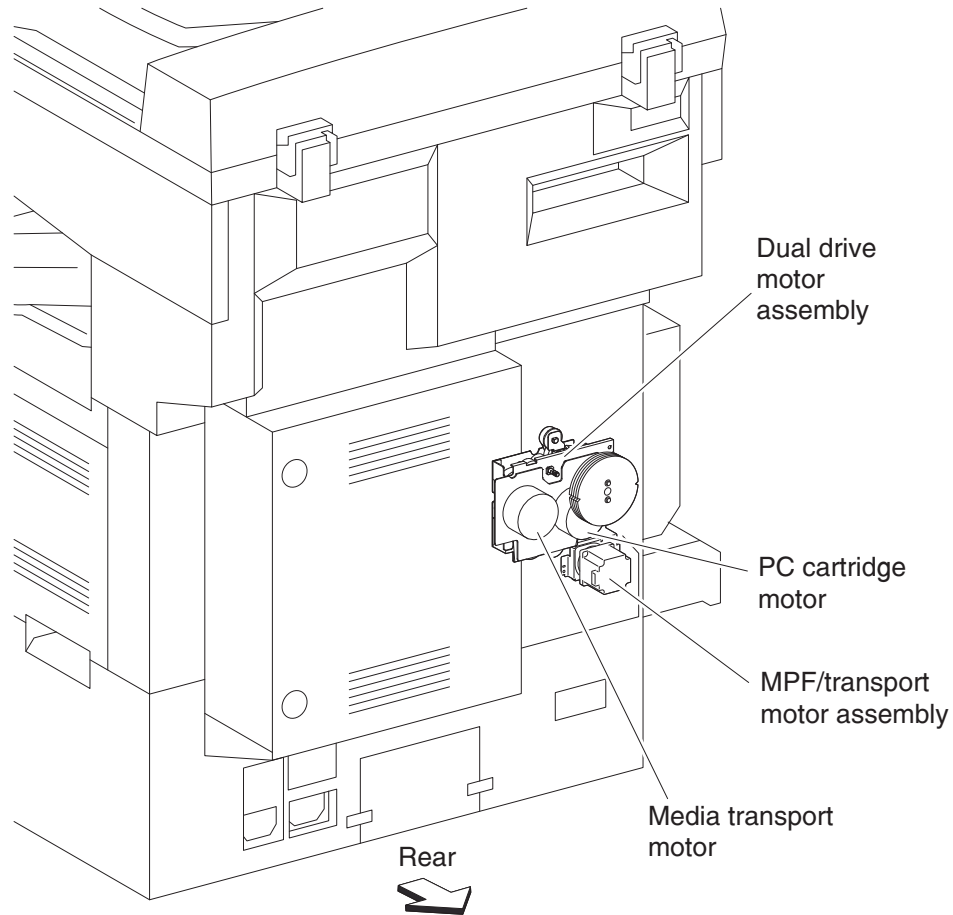
Drive

Media transport motor

The media transport motor is a DC brushless motor that drives the exit 1 media exit shaft assembly, fuser assembly, registration roll assembly.

PC cartridge motor

The PC cartridge motor is a DC brushless motor that drives the PC cartridge, mag roll and transfer roll assembly.



Previous



Next



Go Back

Electrical components and controller

Switch (main power)

Turning on/off the switch, power supplies/cuts off the main power of the printer.

Finisher AC output

Supplies power to the finisher from the main LVPS (low voltage power supply) card assembly.

Switch (printer front door interlock) and switch (printer left door interlock)

The switch is a safety switch to cut off a 24 VDC power supply from the LVPS card assembly to the high volt power supply (HVPS) card assembly, printer engine card assembly and to the dual motor assembly, while the printer front door assembly and the printer left door assembly are open.

Switch (PC Cartridge interlock)

The switch (PC interlock) 5 V interlock is a safety switch to cut off a 5 VDC power supply from the LVPS card assembly to the printhead while the PC cartridge is removed.

Switch (printer left lower door interlock)

The switch (left lower door interlock) detects open or close of the printer left lower door assembly.

Fuser cooling fan

The fuser cooling fan discharges air from the printer to prevent excessive temperature increase.

LVPS card assembly

The LVPS card assembly generates low voltages (5 V and 3.3 V for logic circuits, 5 V for laser diodes, and 24 V for motors/clutches) from AC power. It also contains the fuser relay to feed/cut off AC power to the heater lamps of the fuser assembly.

HVPS card assembly

The HVPS card assembly generates AC power, a high DC voltage, and feeds them to the charge roll, development (magnet roll), transfer roll assembly.

Printer engine card assembly

The printer engine card assembly controls printing operation based on the communication with the RIP card assembly and on sensor/switch information. It also controls optional module boards.

RIP card assembly

The RIP card assembly connected to the printer engine card assembly controls the entire system.

Transport roll assembly

The transport roll assembly feeds media from tray 2, 3, and 4 to the registration roll assembly.

Previous

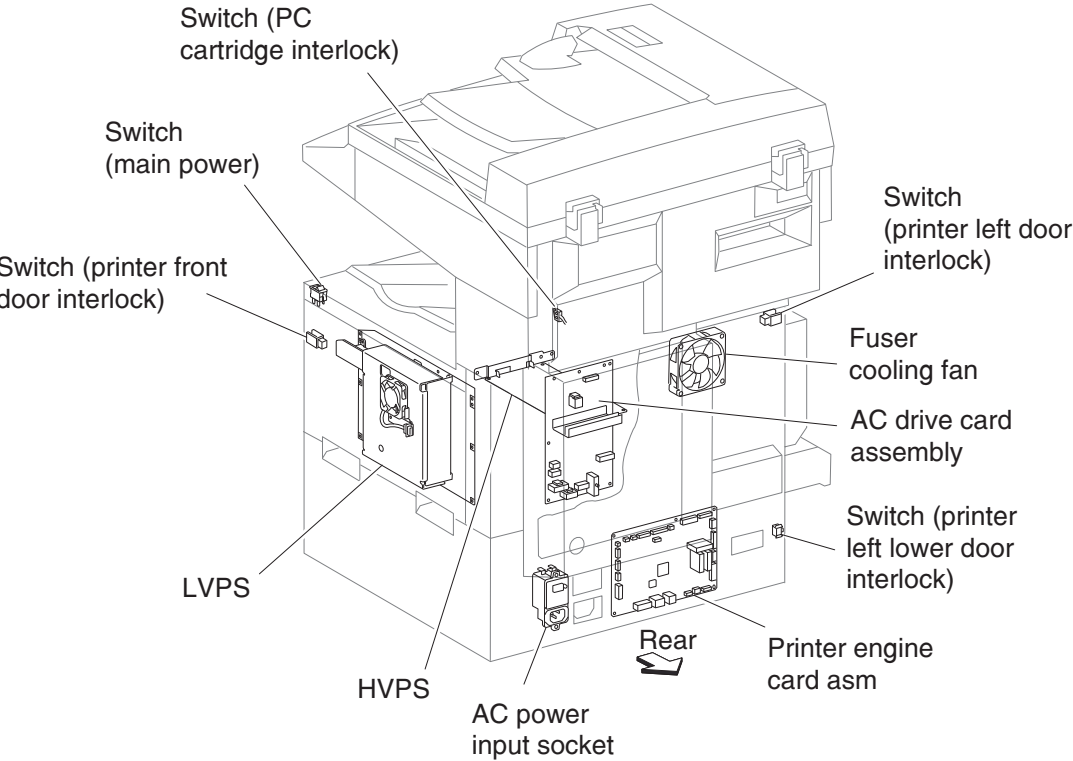


Next



Go Back

Registration roll assembly



Previous

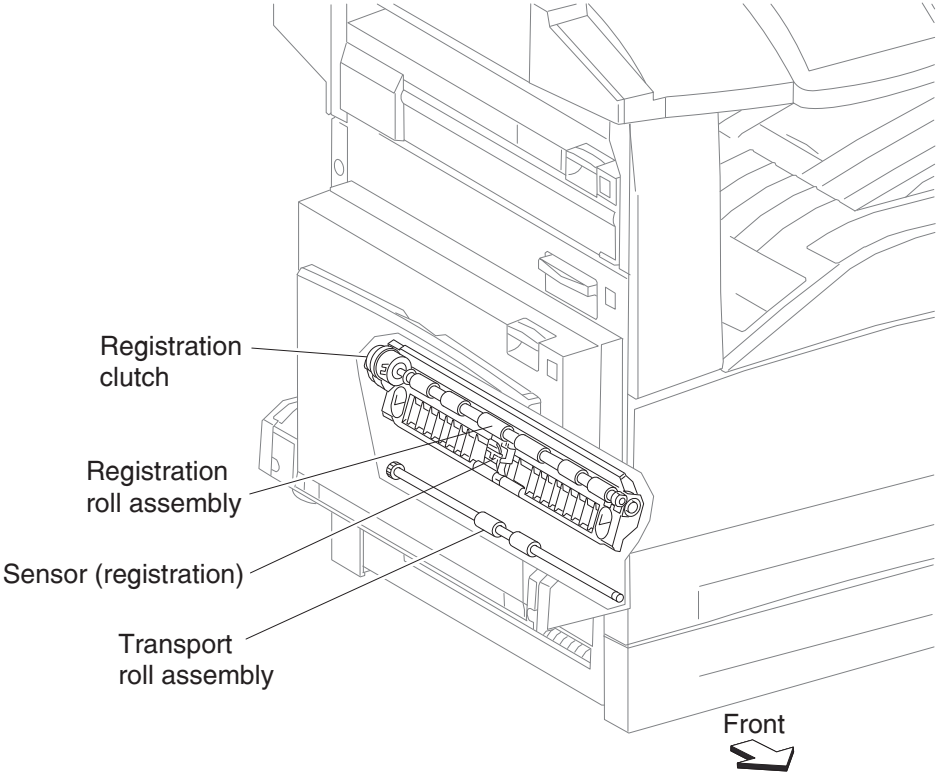


Next



Go Back

The registration roll assembly feeds media from all trays to the PC cartridge or fuser.



Control

Media size control

Media tray assembly feeding

The following table gives the states (on/off) of the switches on the switch (media size), corresponding to the media sizes of the media tray assembly.

Note: The switches on the switch (media size) are denoted by “S/W2”, “S/W4”, “S/W3”, “S/W5”, and “S/W1” respectively from the left side.

Media size	Analog switch				Digital switch
	S/W1	S/W2	S/W3	S/W4	S/W5
No media tray assembly	Off	Off	Off	Off	Off
5.5" X 8.5"SEF/A5 SEF	Off	Off	On	Off	Off
B5 SEF	Off	Off	On	On	On
8.5" X 13"SEF	Off	On	Off	On	Off
8.5" X 14"SEF	Off	On	Off	On	On
A4 SEF	Off	On	On	Off	Off
8.5" X 11"SEF	Off	On	On	Off	On
A4 LEF	On	Off	On	Off	Off
A3 SEF	On	Off	On	On	Off
B5 LEF/executive LEF	On	On	Off	Off	On
8K SEF(TFX/GCO)	On	On	Off	On	Off
B4 SEF	On	On	Off	On	On
8.5" X 11"LEF	On	On	On	Off	Off
16K LEF(TFX/GCO)	On	On	On	Off	On
11" X 17"LEF	On	On	On	On	On

Previous



Next



Go Back

Printhead control

Rotation of printhead motor

The on/off control of the printhead motor is performed according to the mode of operation as shown below.

Operation mode	PRINTHEAD motor on/off
Standby mode	Always off
Print mode	Turns on upon receiving the signal from the controller, and turns off after a preset time has passed from the end of printing. Also turns off if a print command is not received within 30 seconds from the reception of the signal.
Sleep mode	Always off

Determination of printhead ready

The printhead goes into ready state after the specified period passes since the reception of the printhead MPA start signal and the SOS cycle exceeds the reference value.

Printhead reference value

Printhead reference value	Description
Ready reference value	SOS signal interval (equivalent to 98% or more of the rated RPM of the printhead motor)
Fail reference value	SOS signal interval (less than 98% of the rated rpm of the printhead motor)

Fuser control

Fuser control method

The on/off control of the main/sub heater lamps is performed based on the fuser control temperature. The fuser transmits between the five states (warm up, ready, standby, print, and low power) depending on the heat roll surface temperature or printer conditions.

The fuser temperature control starts when the fuser ready in the LVPS card assembly is turned on after a preset time period has passed from power on. If a failure occurs, the heater lamps are turned off, the fuser ready is turned off, and then the fuser temperature control is stopped.

Main/sub heater lamps on/off control

The center and rear thermistors detect the heat roll surface temperature (fuser temperature) to regulate the temperature at the target control temperature by turning on or off the main/sub heater lamps.

Fuser warm-up

The fuser warm-up starts at the time of power on, interlock open or close, jam reset, or return from the low power mode, and ends when the ready temperature is attained, when a failure occurs, or when executing diagnosis.

Previous

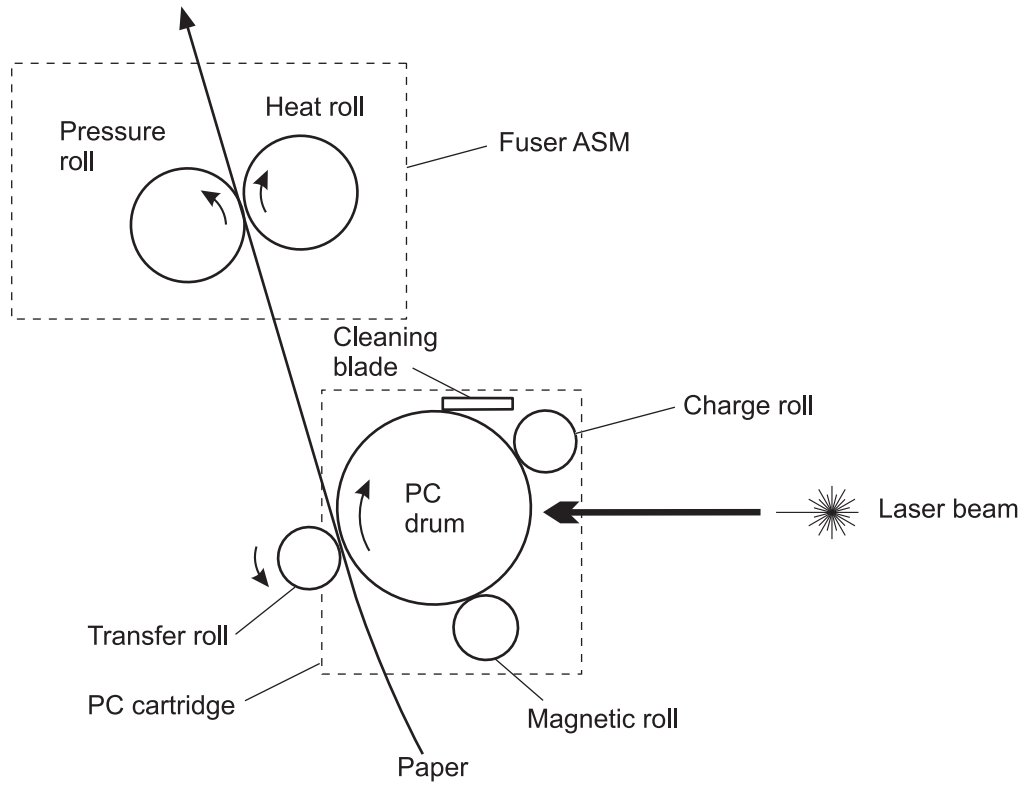


Next



Go Back

Xerographic Process During a Print Cycle



Previous



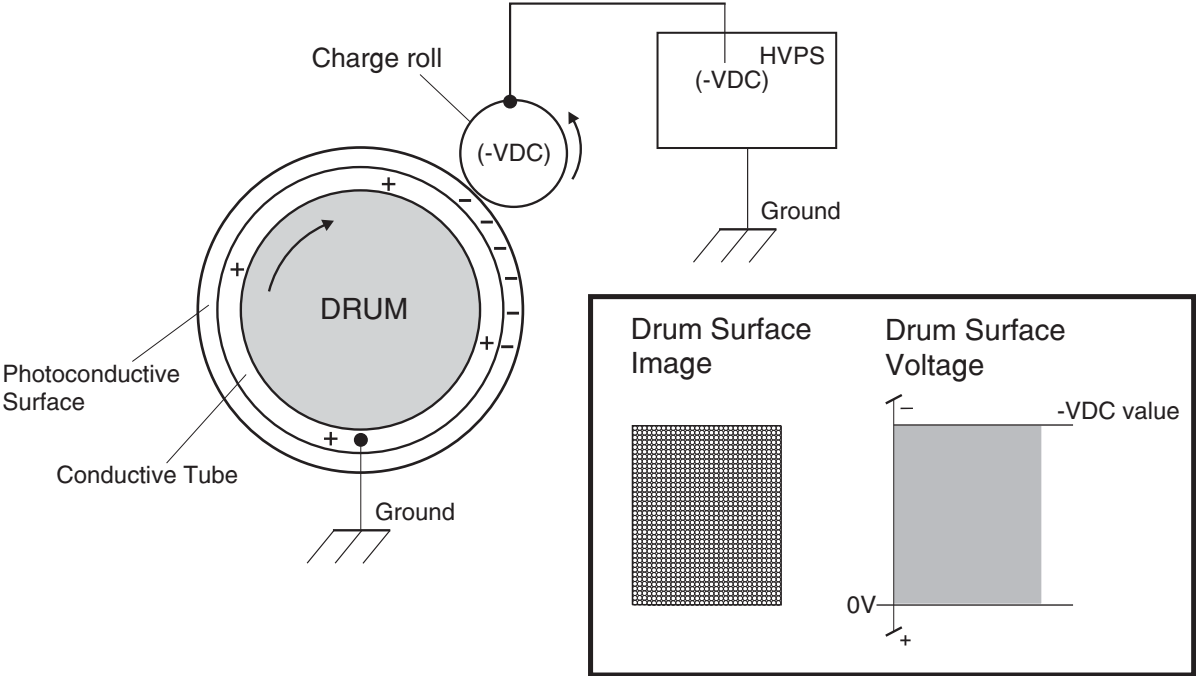
Next



Go Back

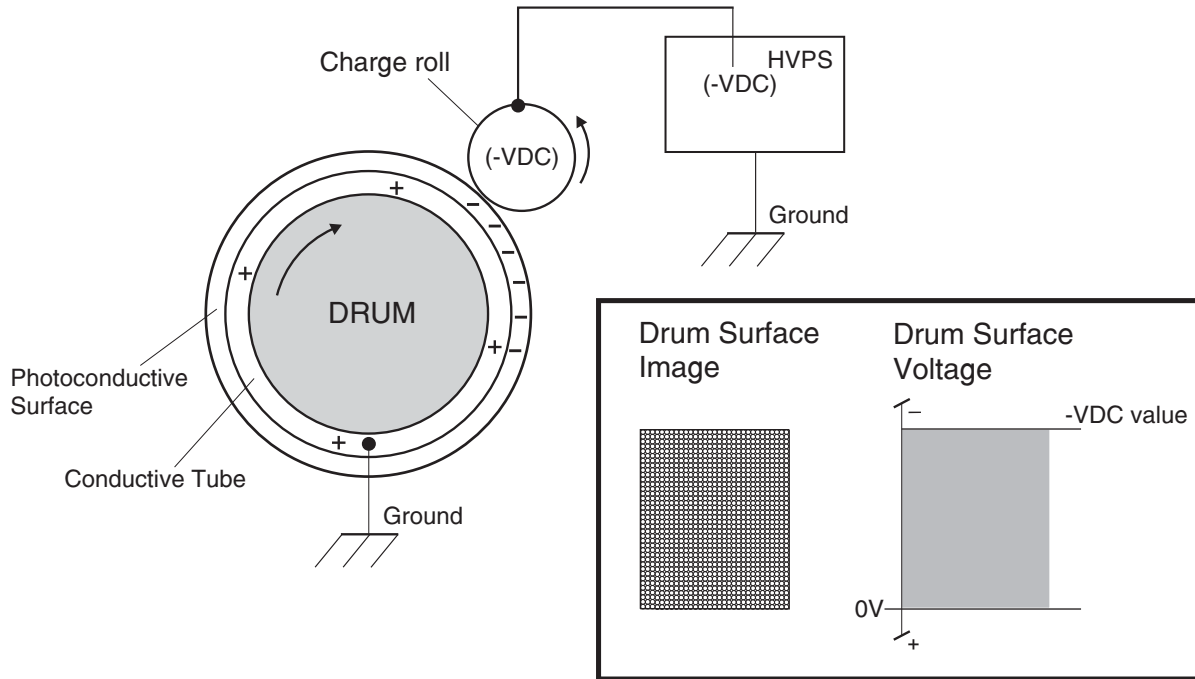
Charge

The Charge Roll places a uniform negative electrostatic charge on the surface of the drum. The drum surface is made of a photoconductive material that holds an electrical charge as long as the drum remains in darkness. Light striking the drum discharges the surface charge.



Previous
Next
Go Back

The charge roll is a conductive roll that is positioned slightly above the surface of the drum. The HVPS supplies the charge roll with two voltages; a negative DC charge voltage and an AC discharge voltage that is used for electrically cleaning the drum.



Previous



Next



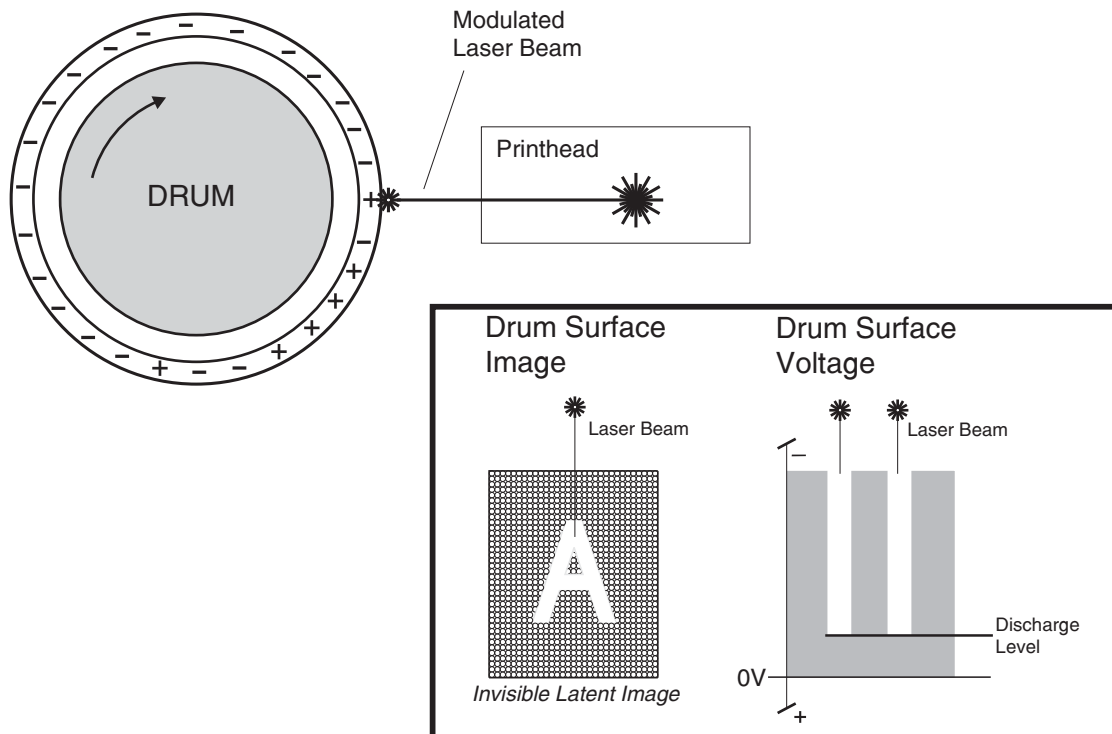
Go Back

Exposure

The Printhead generates a beam of laser light. Image data received from the RIP card assembly modulates this beam, turning it on and off according to image information that is received from the host computer and software.

Through the use of a series of rotating and stationary mirrors within the Printhead, the beam scans the negative charged drum surface. Whenever the print controller sends a command to print a black pixel, the laser switches on long enough to shine onto the drum at a single pixel point. That point is now discharged and slightly less negative than the surrounding negative charge. The less negative areas are considered positive. This discharge/no discharge process creates an invisible, electrostatic image on the surface of the drum. This image is called a **latent** image.

The Printhead also helps to clean and prepare the drum by scanning the surface of the drum at the beginning of each individual printer cycle. This action discharges a residual DC charge that may still remain on the Drum from the last print cycle.



Previous



Next



Go Back

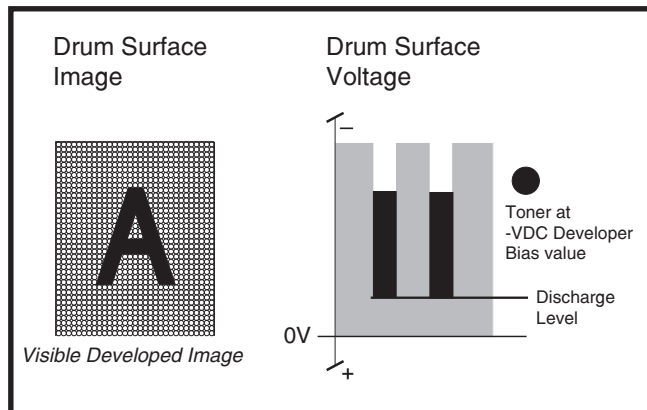
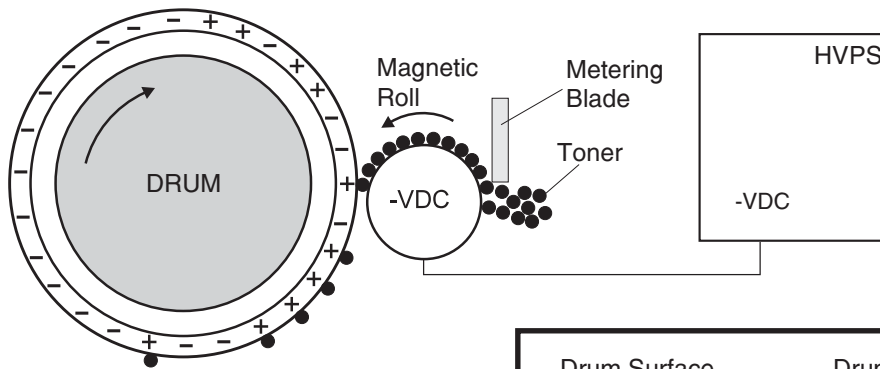
Development

The toner contained within the PC Cartridge has a magnetic property that causes it to adhere to the Magnetic Roll. The Metering Blade spreads the toner into a very thin layer on the Magnetic Roll. Friction between the Magnetic Roll and the CM Blade generates a small electrical charge that is transferred to the toner.

The surface of the Magnetic Roll is made up of a thin sheet of conductive material. The HVPS supplies the Magnetic Roll with two voltages; a DC voltage and an AC voltage. The DC voltage is used to transfer toner from the Magnetic Roll to the surface of the drum. The AC voltage agitates the toner on the Magnetic Roll, making toner transfer easier.

The Magnetic Roll maintains a negative DC electrical potential. Negative charged areas of the drum have a lower electrical potential, or higher relative negative value than the Magnetic Roll. Discharged areas of the drum have a higher electrical potential, or lower relative negative value, than the Magnetic Roll. A discharged point on the surface of the drum now appears less negative in relation to the negative charge on the Magnetic Roll.

The toner adhering to the Magnet Roll is always in contact with the drum surface. When a less negative point on the drum (a discharged area) comes in contact with the more negative charged toner on the Magnet Roll, toner transfers from the Magnet Roll to that point on the drum. There is now a visible toner image on the drum surface. The image is called a developed image.



Previous



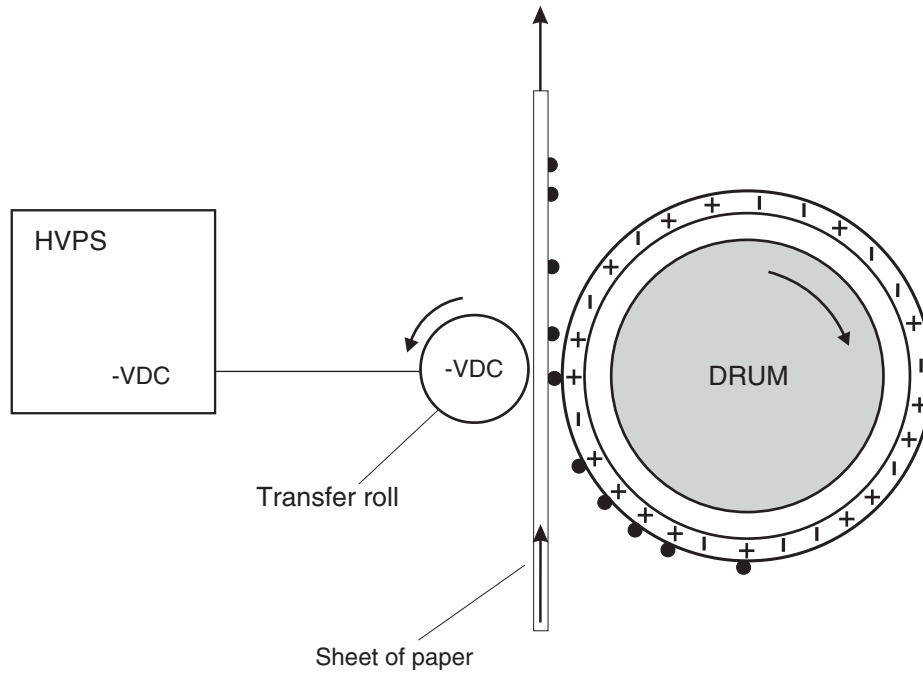
Next



Go Back

Transfer

As the paper travels between the Transfer Roll and the drum surface, the Transfer Roll applies a positive charge to the back of the printing paper. This positive charge transfers the negative charged toner image from the drum surface to the top surface of the paper. The toner image is now on the paper and the paper is now stuck to the drum surface due to the relative electrical differences between the negative electrical charge of the inner conductive layer of the drum and the positive electrical charge of the paper.



Previous



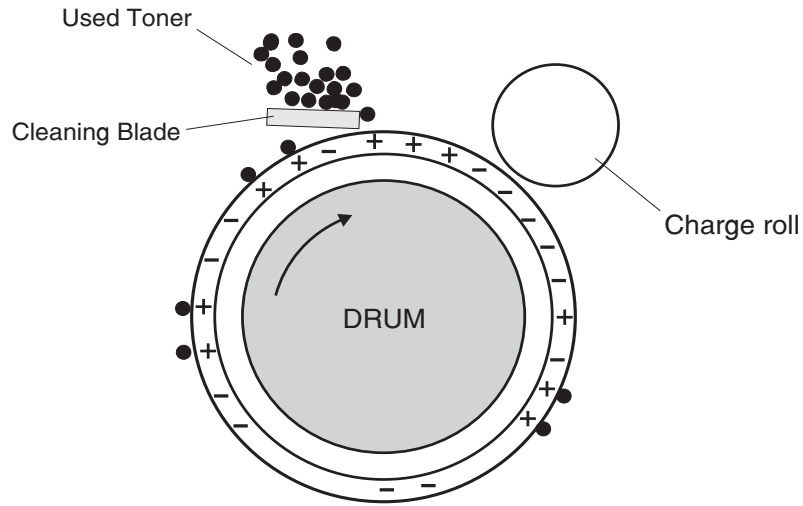
Next



Go Back

Cleaning

The Cleaning Blade removes any toner that remains on the drum after the transfer process. The toner that the Cleaning Blade removes is collected inside the sealed PC Cartridge and reused.



Previous



Next

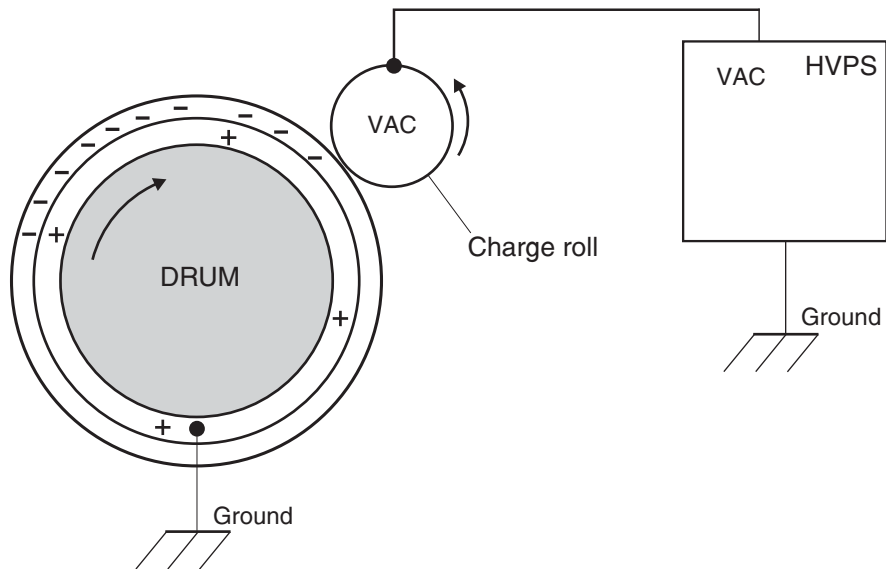


Go Back

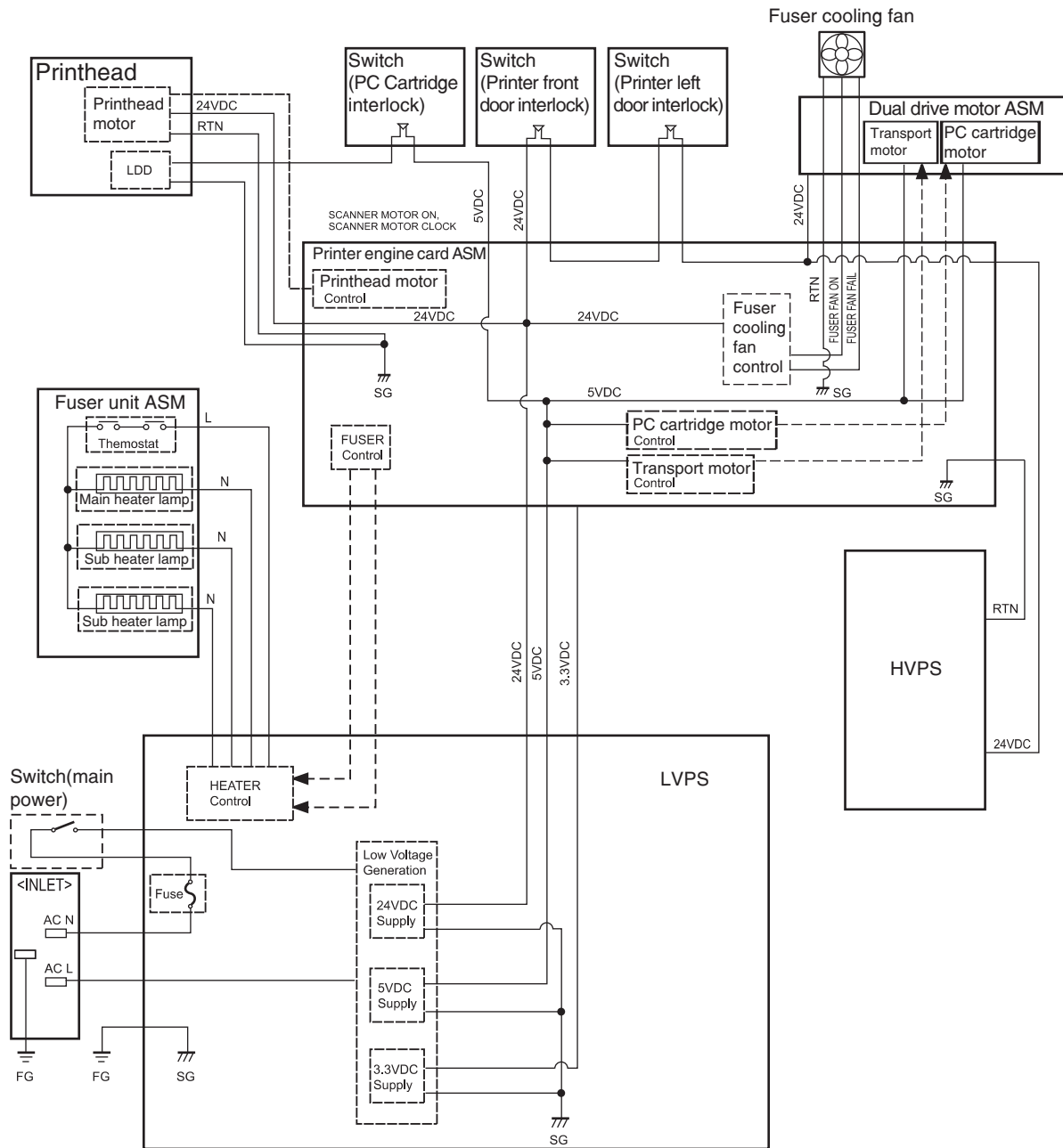
Discharge

At both the start and the end of each individual printer cycle, the HVPS supplies the charge roll with an AC voltage that is used to electrically clean the drum. The AC voltage removes any residual DC charge that was left from the previous print cycle.

At the beginning of each individual printer cycle, the Printhead scans the surface of the drum, further discharging any residual DC charge that may be left on the drum.



Safety system diagram



Previous



Next

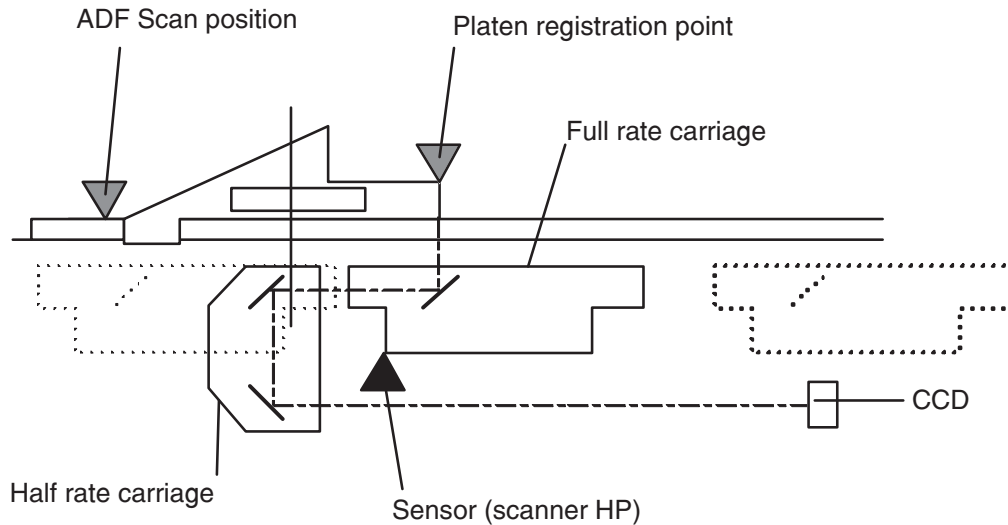


Go Back

Document scanning

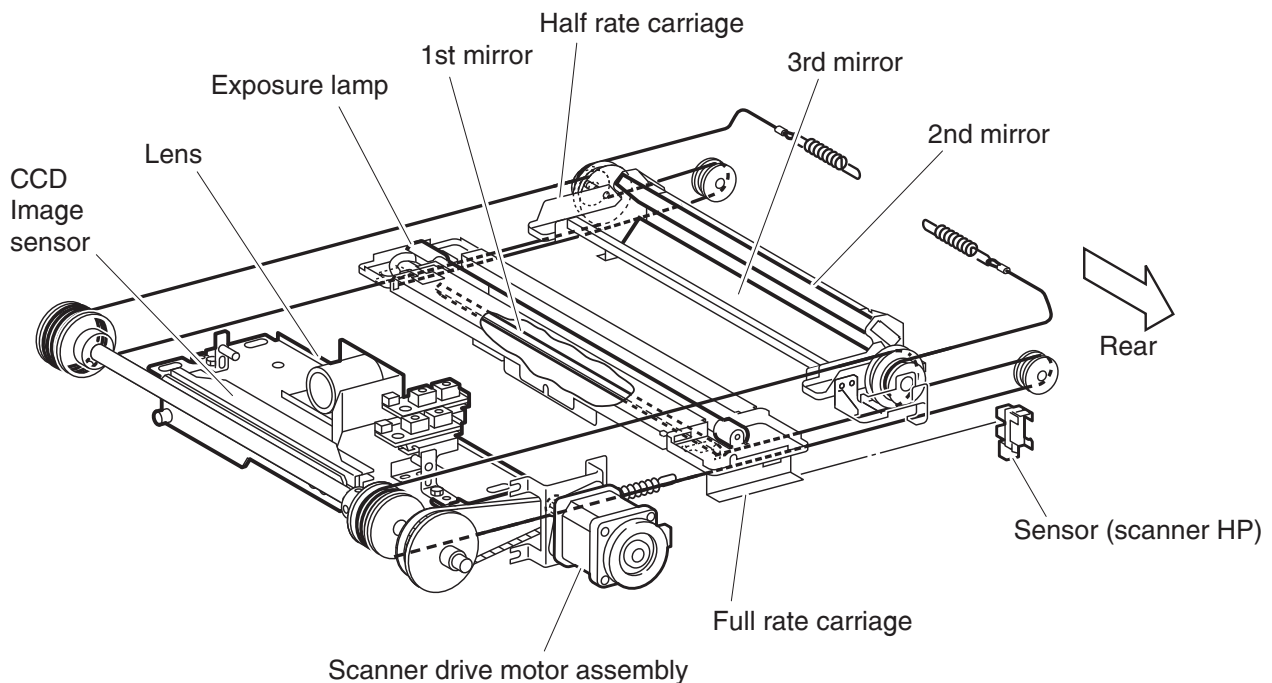
The document scanning section of this machine consists of a scanner that reads a single-sheet document placed on the platen glass and a document feeder that can transport a multiple-sheet document and flip the sheets for two-sided scanning.

This ADF employs a constant velocity transport system that scans images by feeding the document at a constant speed over the specified position (scan position) where the carriage (full/half rate carriage) of the scanner unit assembly is fixed.



Document scanning at platen

Shown below is the operational overview of document scanning at the platen.



The full rate carriage and half rate carriage travel to read the document.

The exposure lamp is installed on the full rate carriage. As the full rate carriage travels, the document on the platen glass is scanned and exposed with the exposure lamp.

In conjunction with the full rate carriage, the half rate carriage travels half of the stroke of the full rate carriage.

The optical image of the exposed document is reflected by the scanner 1st mirror of the full rate carriage and directed to the scanner lens via the scanner 2nd mirror and the scanner 3rd mirror of the half rate carriage.

The image data is read with the scanner CCD image sensor assembly.

Previous



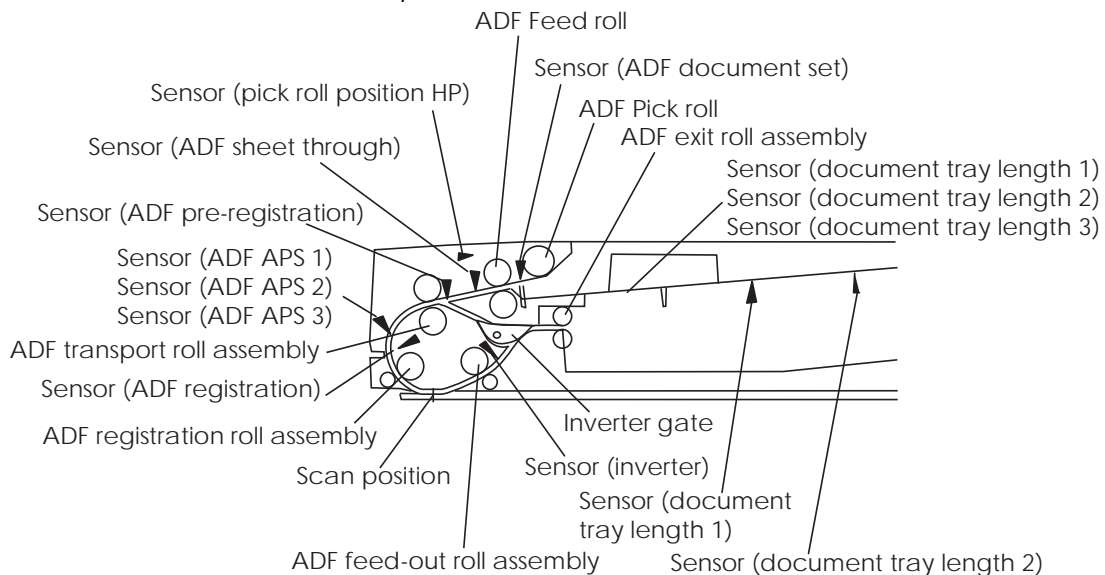
Next



Go Back

Document scanning at ADF

Shown below is the document feed path from the ADF.



A document sheet set in the document tray assembly is fed through the ADF feed roll, ADF pick roll, and ADF registration roll assembly. The document image is scanned at the scan position, and the document sheet is ejected through the ADF feed-out roll assembly and the ADF exit roll assembly. For a duplex document sheet, the image on side 1 is scanned at the scan position and then the document sheet is inverted and fed to the ADF transport roll assembly again.

Described below is the overview of the steps before document scanning and that of simplex and duplex document scanning modes.

Setting a document

When a document is set on the document tray assembly and the lead edge is pushed into the tray until it stops, the ADF document set actuator moves to place the sensor (ADF document set) in the unshielded (unblocked) state. Then the machine recognizes that the document has been set properly, turning on the document set LED.

Preparation for feed

Pressing the start button with the document set in the document tray will start feeding the document.

First the pick roll moves down and presses the document on the document tray to enable document feed.

The pick roll moves down with the normal rotation of the pick roll position motor assembly and it moves up with the reverse rotation of the pick roll position motor assembly.

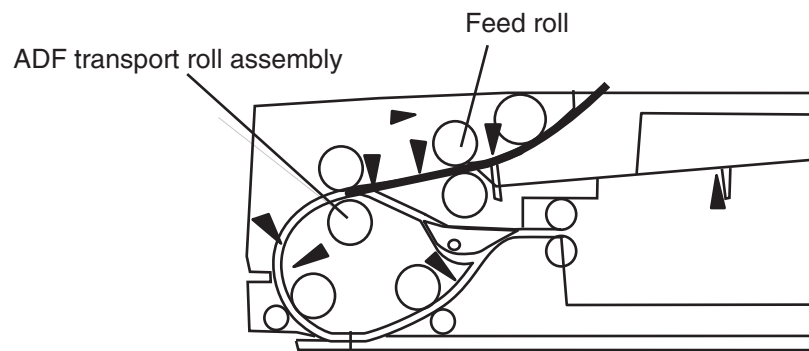
Upon completion of document feed, the pick roll returns to the normal (raised) position.

Pre-feed

In the pre-feed step, a document sheet is fed from the Feed roll to the ADF transport roll assembly. To correct the skew, side1 of the document sheet is thrust against the ADF transport roll assembly rotating in the reverse direction and side2 is thrust against the ADF transport roll assembly at rest.

With the pick roll at the down position (see Preparation for feed), the ADF feed motor assembly rotates in the reverse direction (CCW direction) to drive the pick roll and Feed roll. The pick roll feeds the top document sheet on the document tray toward the Feed roll. The Feed roll nipped by the separation roll feeds the document sheets (from the pick roll) one by one. When the sensor (ADF sheet through) detects a document sheet, the machine recognizes that feed of the first document sheet is complete.

When the sensor (ADF pre-registration) detects a document sheet, the ADF feed motor assembly slows down. As a result, the document sheet stops against the ADF transport roll assembly, correcting the skew.



Pre-registration

In the pre-registration step, the document sheet (fed to the ADF transport roll assembly in the pre-feed step) is fed to the ADF registration roll assembly and then the lead edge of the document sheet is fed from the ADF registration roll assembly to the scan feed reference position (Wait Position) located upstream from the scan position, where the document stops. Thus, registration of the lead edge of the document is performed.

When the document sheet is fed to the ADF transport roll assembly, the ADF feed motor assembly changes its rotational direction to the normal direction (CW direction) to drive the ADF transport roll assembly. The ADF transport roll assembly feeds the document sheet toward the ADF registration roll assembly. When the sensor (ADF pre-registration) detects the document sheet, the ADF registration motor rotates in the reverse direction (CCW direction) to drive the ADF registration roll assembly, ADF feed-out roll assembly, and ADF exit roll assembly. The ADF registration roll assembly feeds the document sheet (fed from the ADF transport roll assembly) to the scan feed reference position.

When the sensor (ADF registration) detects the document sheet, the ADF feed motor assembly slows down. From this moment on, the ADF feed motor assembly and ADF registration motor decelerate continuously until the document stops in the predetermined amount of time. At this point, the document sheet stops with the lead edge nipped by the ADF registration roll assembly at 15 mm from the top. This is when the document sheet stops at the scan feed reference position.

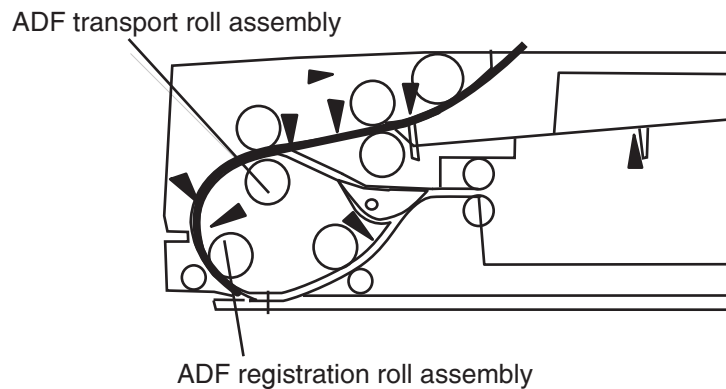
Previous



Next



Go Back



Previous



Next



Go Back

Scan control

Scanning of the image illuminated with the exposure lamp of the full rate carriage is controlled by changing the feed speed according to the copy magnification.

The document sheet stopping at the scan feed reference position is then fed to the scan position when the scan signal is sent from the main unit of the machine after the predetermined time lapse following the paper detection at sensor (ADF registration). Upon receipt of the scan signal, the ADF feed motor assembly rotates in the normal direction (CW direction) to drive the ADF transport roll assembly and the ADF registration motor rotates in the reverse direction (CCW direction) to drive the ADF registration roll assembly, ADF feed-out roll assembly, and ADF exit roll assembly. Each motor gradually accelerates up to the specified speed. When the document sheet passes the scan position at the specified speed, the images on the document sheets are exposed by scanning with the exposure lamp of the full rate carriage, and read by the CCD image sensor assembly.

When the predetermined period of time has elapsed since the document sheet ceased to be detected by the sensor (ADF pre-registration), the ADF feed motor assembly stops.

When the predetermined period of time has elapsed since the document sheet passed through the sensor (ADF inverter), the ADF registration motor stops.

Inversion

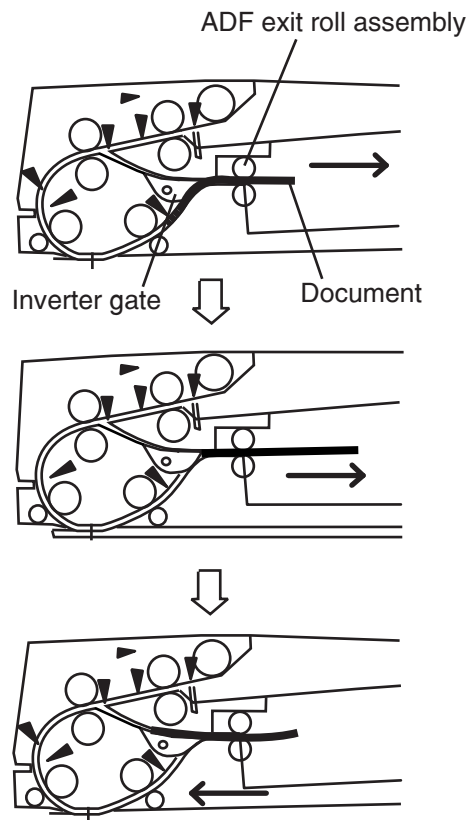
In the inversion step, the document sheet is inverted at the inverter gate and fed to the ADF transport roll assembly again. By thrusting the document sheet against the ADF transport roll assembly at rest, the skew of the inverted document sheet is corrected.

This enables scanning of a duplex document.

When the predetermined period of time has elapsed since the document sheet passed the sensor (inverter), the ADF registration motor starts rotating in the normal direction (CW direction) to drive the ADF exit roll assembly in the direction opposite to the exit direction. Thus, the document sheet is inverted and fed to the ADF transport roll assembly again.

When the sensor (ADF pre-registration) detects the document sheet, the ADF registration motor decelerates until it stops.

The inverter gate is so designed that the document sheet fed toward the exit can pass through it smoothly. When the trail edge of the document sheet has passed through the inverter gate, it closes the downstream document feed path. Thus the document sheet is fed over the inverter gate up to the ADF transport roll assembly when fed backward, thereby inverting the document sheet.



Previous



Next

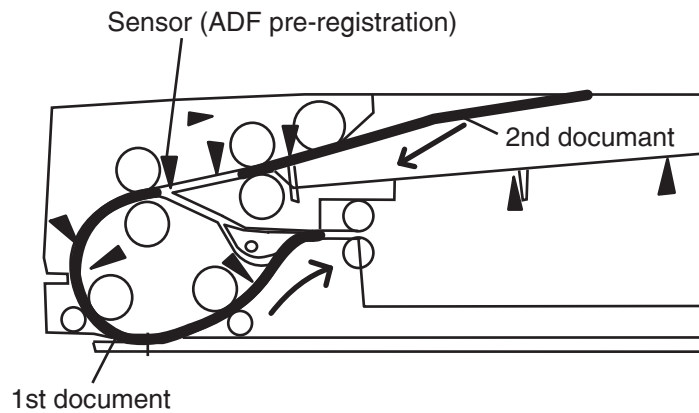


Go Back

Simplex document

For two simplex document sheets, feed is performed in the following sequence:

1. The first document sheet is fed to the ADF transport roll assembly. (see Pre-feed)
2. The document is fed to the ADF registration roll assembly, and then fed to the scan feed reference position. (see Pre-registration)
3. The document sheet is fed at the feed speed corresponding to the selected magnification, and the image on it is scanned with the exposure lamp at the scan position. (see Scan control)
4. As the image is scanned, the document sheet is fed and ejected by the ADF feed-out roll assembly and ADF exit roll assembly that are driven by the ADF registration motor turning in the reverse direction (CCW direction).
5. When the trail edge of the first document sheet has passed through the sensor (ADF pre-registration), the feed of the second document sheet starts.



Previous



Next



Go Back

Duplex document

The ADF scans the image on Side 1 (side facing up when set on the tray), inverts the document sheet, scans the image on Side 2 (side facing down when set on the tray), and then ejects the document sheet while inverting it.

Therefore, the duplex document sheet is ejected with Side 2 up as with the simplex document sheet.

For two simplex documents, feed is performed in the following sequence.

1. The first document sheet (Side 1) is fed to the ADF transport roll assembly. (see Pre-feed)
2. The document sheet (Side 1) is fed to the ADF registration roll assembly and then fed to the scan feed reference position. (see Pre-registration)
3. The document sheet (Side 1) is fed at the feed speed corresponding to the selected magnification, and the image is scanned with the exposure lamp at the scan position. (see Scan control)
4. As the image is scanned, the document (Side 1) is fed by the ADF feed-out roll assembly and ADF exit roll assembly that are driven by the ADF registration motor rotating in the reverse direction (CCW direction). When the trail edge of the document has passed through the sensor (inverter), the ADF registration motor changes its rotational direction to the normal direction (CW direction) to drive the ADF exit roll assembly in the opposite direction. Thus, the document sheet is inverted and fed to the ADF transport roll assembly again.
5. When the sensor (ADF pre-registration) detects the lead edge of the document sheet (Side 2), the inverter solenoid assembly is turned on to release the nipped ADF exit roll assembly and exit pinch roll. If these rolls are not released, the lead edge of the document sheet (Side 2) reaches the ADF exit roll assembly before the trail edge of the document sheet (Side 2) leaves the ADF exit roll assembly when the document sheet (Side 2) is long in the slow scanning direction.
6. The document sheet (Side 2) is fed to the ADF registration roll assembly and then fed to the scan feed reference position. (see Pre-registration)
7. The document sheet (Side 2) is fed at the feed speed corresponding to the selected magnification, and the image on it is scanned with the exposure lamp at the scan position. (see Scan control)
8. When the trail edge of the document sheet (Side 2) passes through the sensor (ADF pre-registration), the inverter solenoid assembly is turned off to nip the ADF exit roll assembly and exit pinch roll.
9. As the image is scanned, the document sheet (Side 2) is fed by the ADF feed-out roll assembly and ADF exit roll assembly that are driven by the ADF registration motor turning in the reverse direction (CCW direction). When the trail edge of the document sheet (Side 2) has passed through the sensor (inverter), the ADF registration motor changes its rotational direction to the normal direction (CW direction) to drive the ADF exit roll assembly in the opposite direction. Thus, the document sheet (Side 2) is inverted and fed toward the ADF transport roll assembly again.
10. At the same time, the ADF feed motor assembly rotates in the normal direction (CW direction) to drive the ADF transport roll assembly, thus feeding the document sheet (Side 1) toward the exit.

11. When the sensor (ADF pre-registration) detects the lead edge of document sheet (Side 1), the inverter solenoid assembly is turned on to release the nipped ADF exit roll assembly and exit pinch roll and the ADF registration motor decelerates and stops.
12. After the predetermined time, the ADF registration motor starts rotating in the reverse direction (CCW direction) to drive the ADF registration roll assembly and ADF feed-out roll assembly in the exit direction in order to feed the document sheet (Side 1).
13. When the trail edge of the document sheet (Side 1) passes the sensor (ADF pre-registration), the inverter solenoid assembly is turned off to nip the ADF exit roll assembly and exit pinch roll, thereby ejecting the document sheet with the ADF exit roll assembly.
14. At this timing, the feed of the second document sheet starts.
15. The subsequent steps are the same as those for the first document sheet.

Previous



Next



Go Back

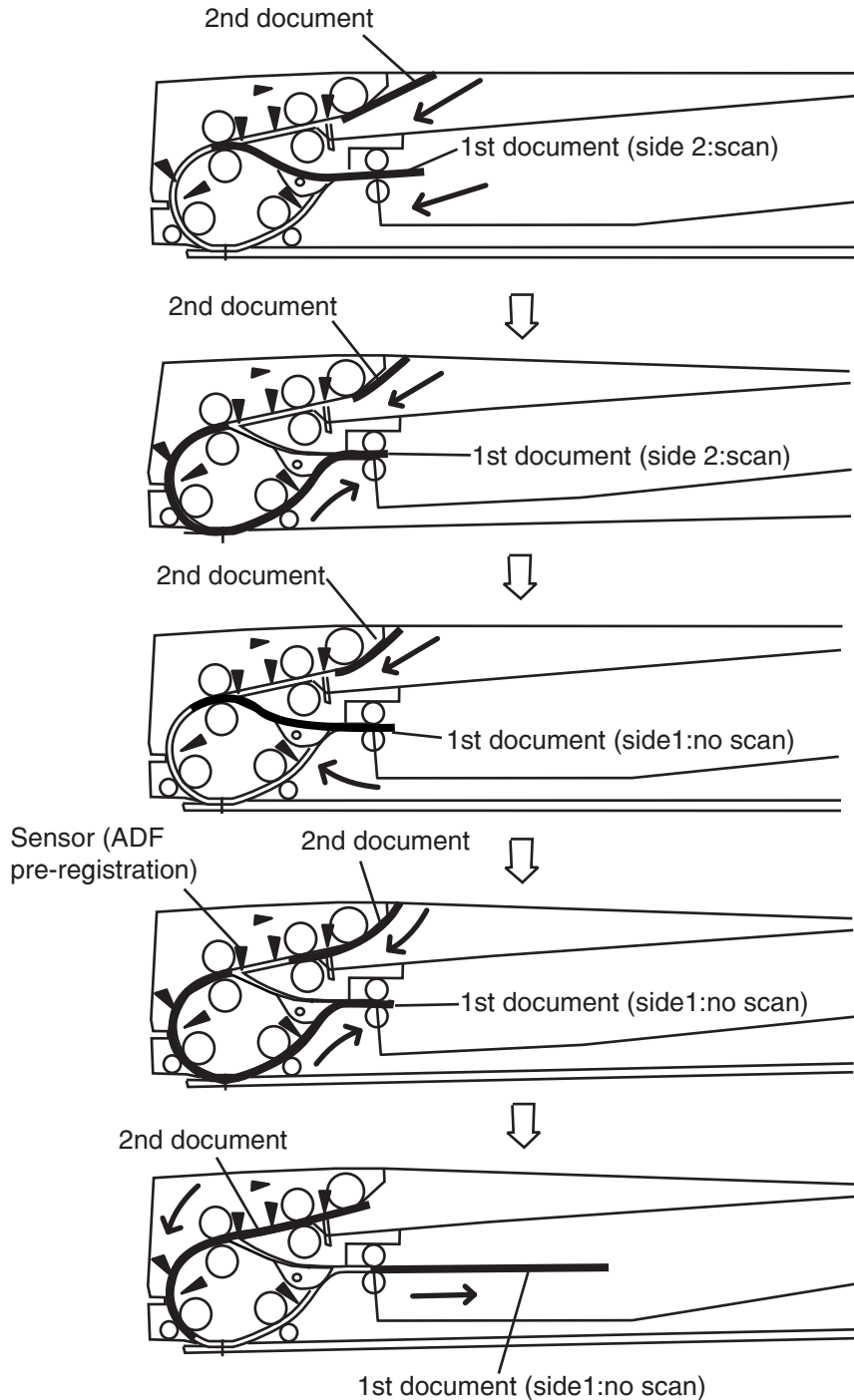
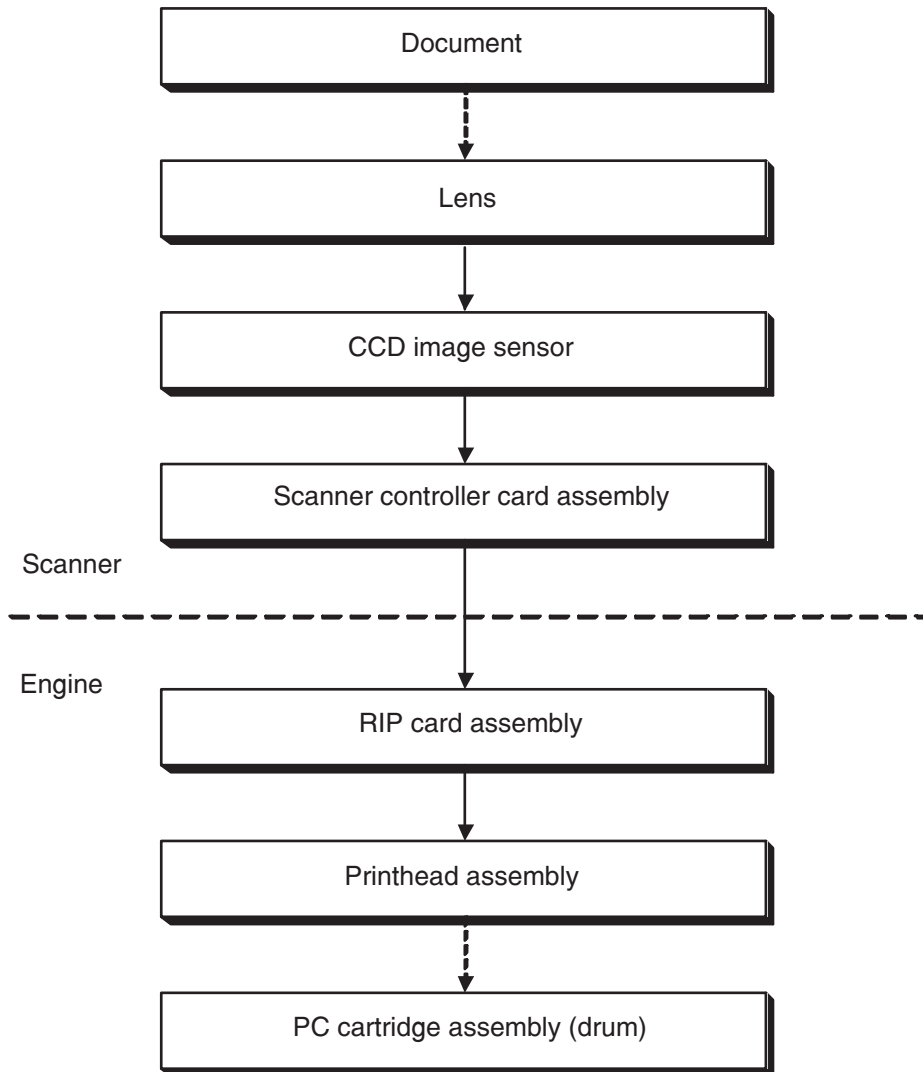


Image data flow

The image data from the document set on the scanner unit assembly or ADF goes through the following components before it is printed at the Engine section.



Previous



Next

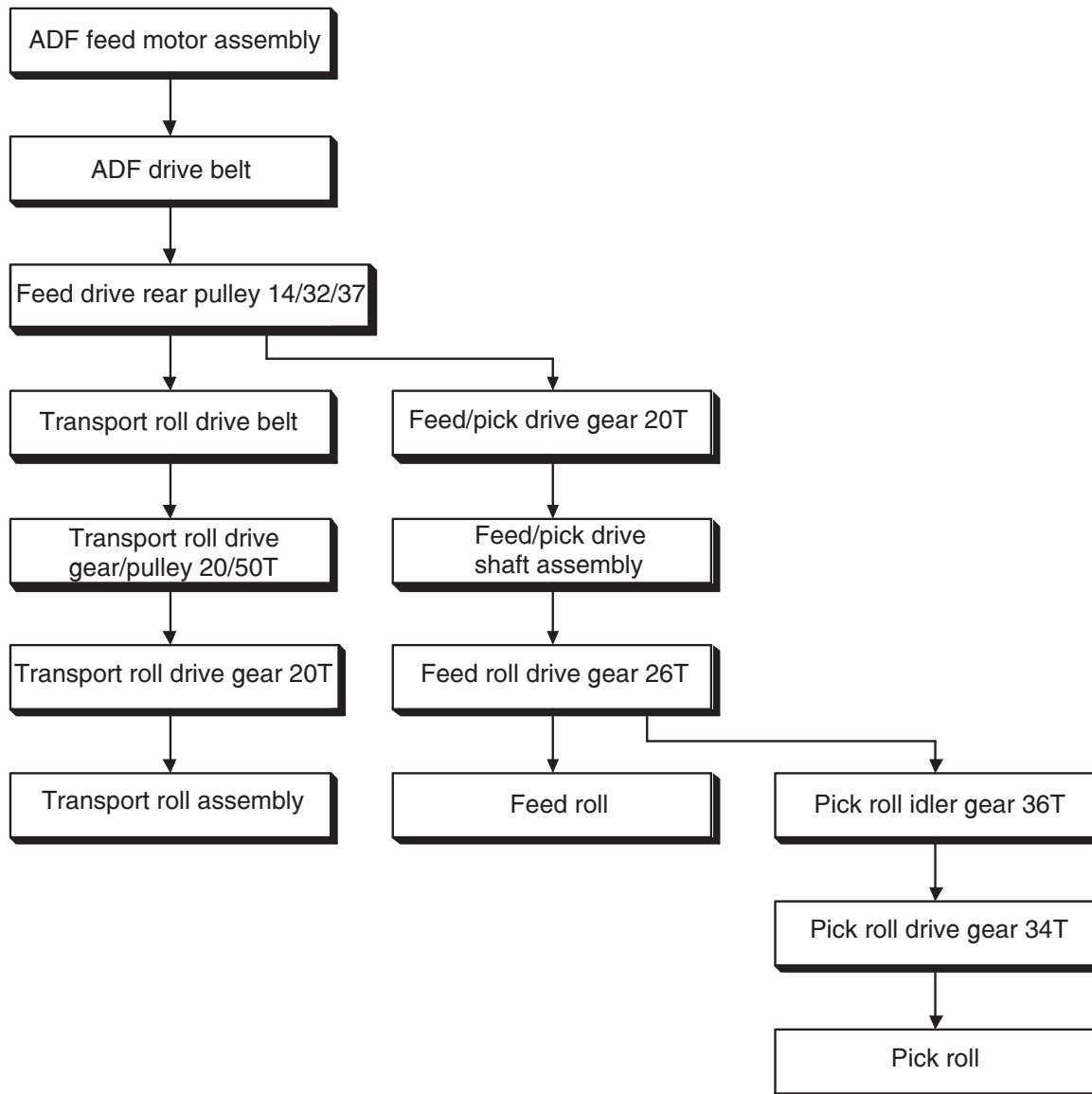


Go Back

Drive torque transfer scheme

ADF feed motor assembly

The rotational force of the ADF feed motor assembly is transferred to each document feeding roll as shown below.



ADF registration motor

The rotational force of the ADF registration motor is transferred to each document feeding roll as shown below.

Gear layout



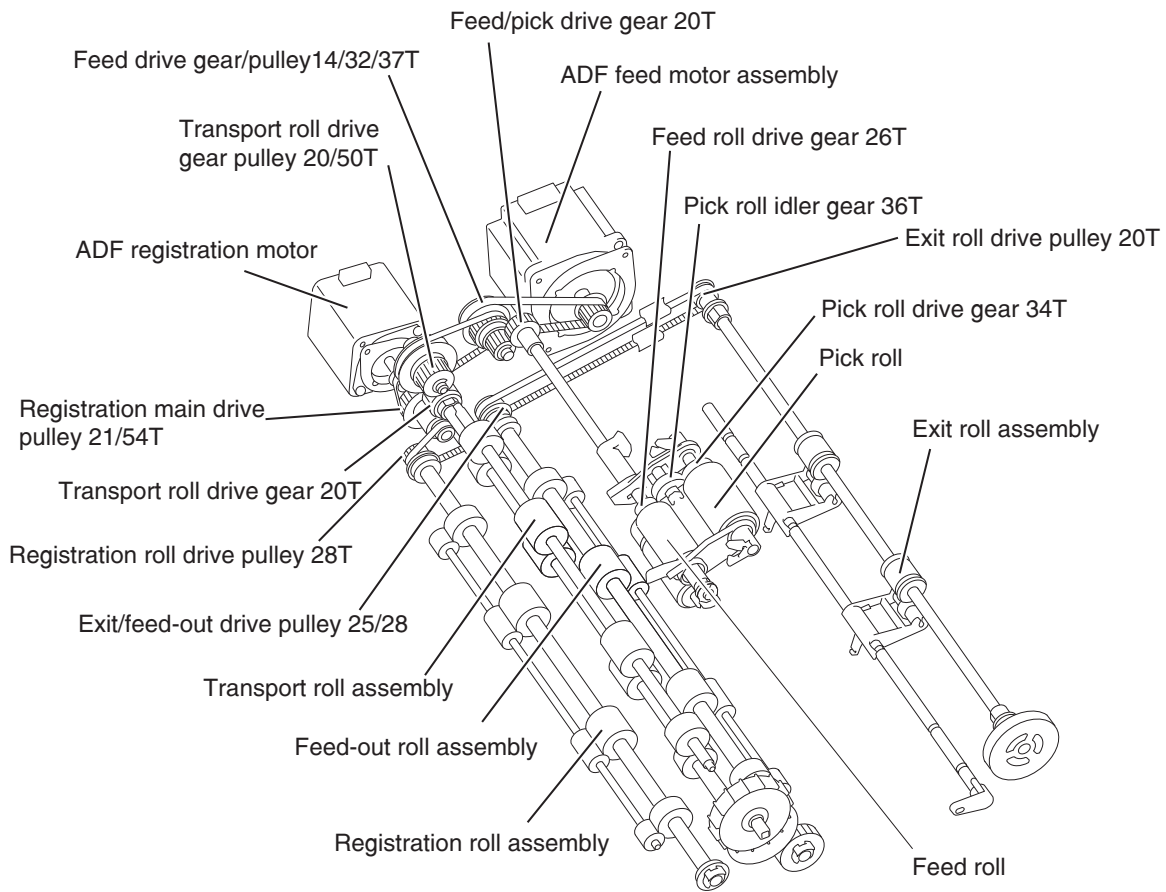
Previous



Next



Go Back



Previous



Next



Go Back

Names and functions of components

The sections below describe the functions of main components of the scanner.

Scanner unit assembly

Sensor (platen length APS 1)

Sensor (platen length APS 2)

The document length in the slow scanning direction is detected by a combination of the two reflector sensors.

Switch (platen interlock)

A switch that detects whether the ADF is open and determines the timing of platen document size detection.

Sensor (ADF angle)

A sensor that detects the angle at which the ADF opens and determines the timing of platen document size detection.

Scanner drive motor assembly

A stepping motor that drives the full rate carriage and the half rate carriage.

Sensor (scanner HP)

A sensor that detects the HP position of the full rate carriage.

The rear portion of the full rate carriage frame functions as an actuator that shields the sensor (scanner HP) for detection.

Scanner exposure lamp

A xenon lamp to which the document is exposed.

Exposure lamp PS card assembly

A card that switches on/off the exposure lamp according to the signal from the scanner controller card assembly.

Lens assembly

A kit that consists of a lens used to read the document and a CCD image sensor used to photoelectrically convert the image data read from the document.

Scanner controller card assembly

A card that controls the scanner section.

Previous



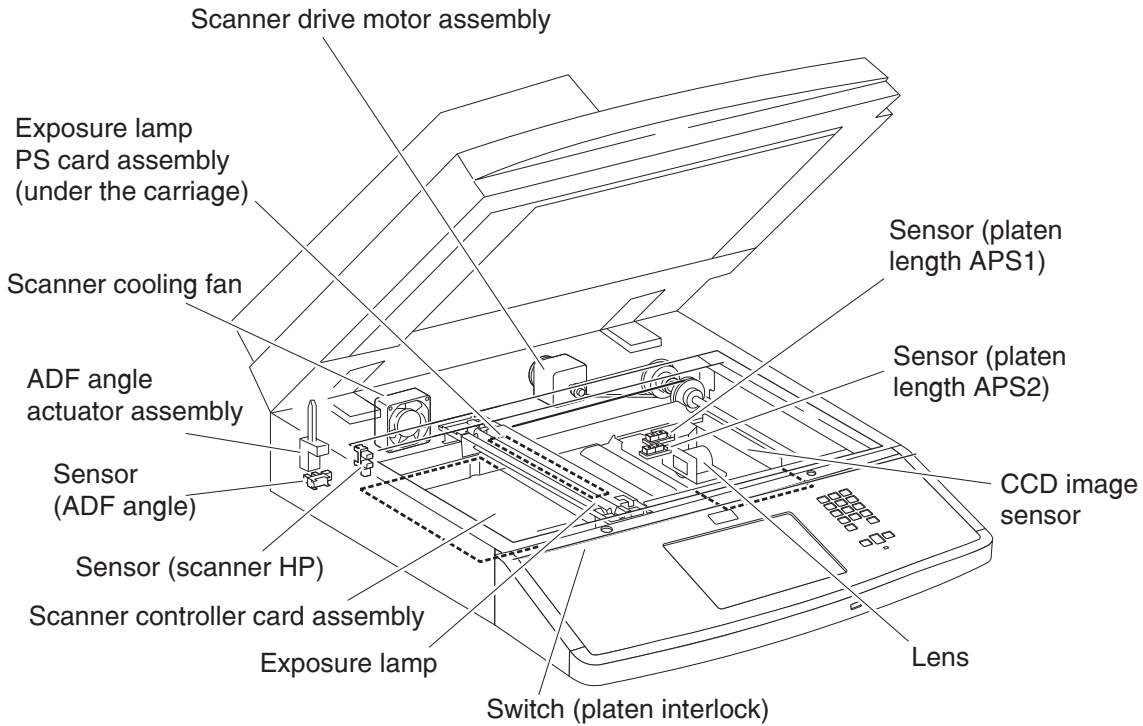
Next



Go Back

Scanner cooling fan

A fan that prevents overheating of the scanner controller card assembly and exposure lamp.



Previous



Next



Go Back

ADF

Sensor (ADF tray length 1)

Sensor (ADF tray length 2)

The document length in the slow scanning direction is detected by a combination of these two sensors.

Sensor (document tray width 1)

Sensor (document tray width 2)

Sensor (document tray width 3)

The document length in the fast scanning direction is detected by the combination of these three sensors detecting the position of the tray on which the document is set.

Sensor (ADF document set)

A sensor that detects the presence or absence of a document on the ADF document tray.

(Presence: Beam is unshielded (unblocked). Absence: Beam is shielded (blocked).)

Pick roll position motor assembly

A stepping motor that moves the pick roll vertically.

Sensor (pick roll position HP)

A sensor that detects the home position of the pick roll.

ADF Document Set LED

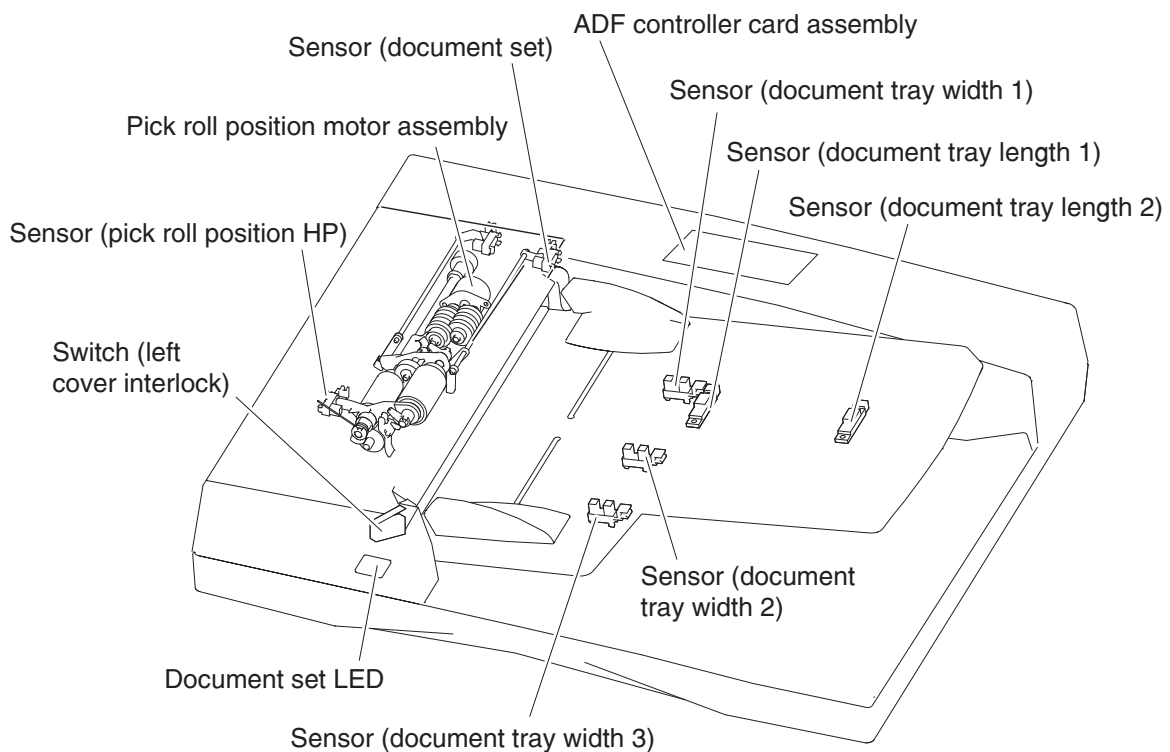
An LED that illuminates when a document is set on the ADF Document Tray.

Switch (ADF left cover interlock)

A switch that detects whether the ADF left cover assembly is open.

ADF controller card assembly

A card that controls the ADF unit assembly. The ADF controller card assembly is connected to and controlled by the Scanner controller card assembly.

**Sensor (ADF APS 1)****Sensor (ADF APS 2)****Sensor (ADF APS 3)**

These are sensors that detect the fast-scanning-directional width of the moving document.

Sensor (ADF sheet through)

The ADF sensor (ADF sheet through) is installed immediately downstream from the Feed roll to detect completion of document feed. (document is present: shielded (blocked); document is absent: unshielded (unblocked))

Previous



Next



Go Back

Sensor (ADF pre-registration)

The ADF sensor (ADF pre-registration) is installed immediately upstream from the ADF transport roll assembly to detect that the preceding document sheet has left the ADF transport roll assembly, triggering the pre-feed of the next document sheet.

Sensor (ADF registration)

The sensor (ADF registration) is installed upstream from the ADF registration roll assembly to detect that the preceding document sheet has left the ADF registration roll assembly, triggering the pre-registration of the next document sheet.

Sensor (ADF inverter)

The sensor (ADF inverter) is installed immediately downstream from the ADF feed-out roll assembly to detect the ejection of a document sheet.

ADF feed motor assembly

The feed motor assembly is a stepping motor that rotates the pick roll and feed roll in the reverse direction (CCW direction) and rotates the ADF transport roll assembly in the normal direction (CW direction).

When this motor rotates in the reverse direction, the ADF transport roll assembly stops.

ADF registration motor

The registration motor is a stepping motor that rotates the ADF registration roll assembly, ADF feed-out roll assembly, and ADF exit roll assembly in the reverse direction (CCW direction) and rotates the ADF exit roll assembly in the normal direction (CW direction).

When this motor rotates in the normal direction, the ADF registration roll assembly and ADF feed-out roll assembly run idle.

Inverter solenoid assembly

This solenoid nips or releases the ADF exit roll assembly and exit pinch roll.

Normally, the ADF exit roll assembly and exit pinch roll are nipped.

On: Released

Off: Nipped

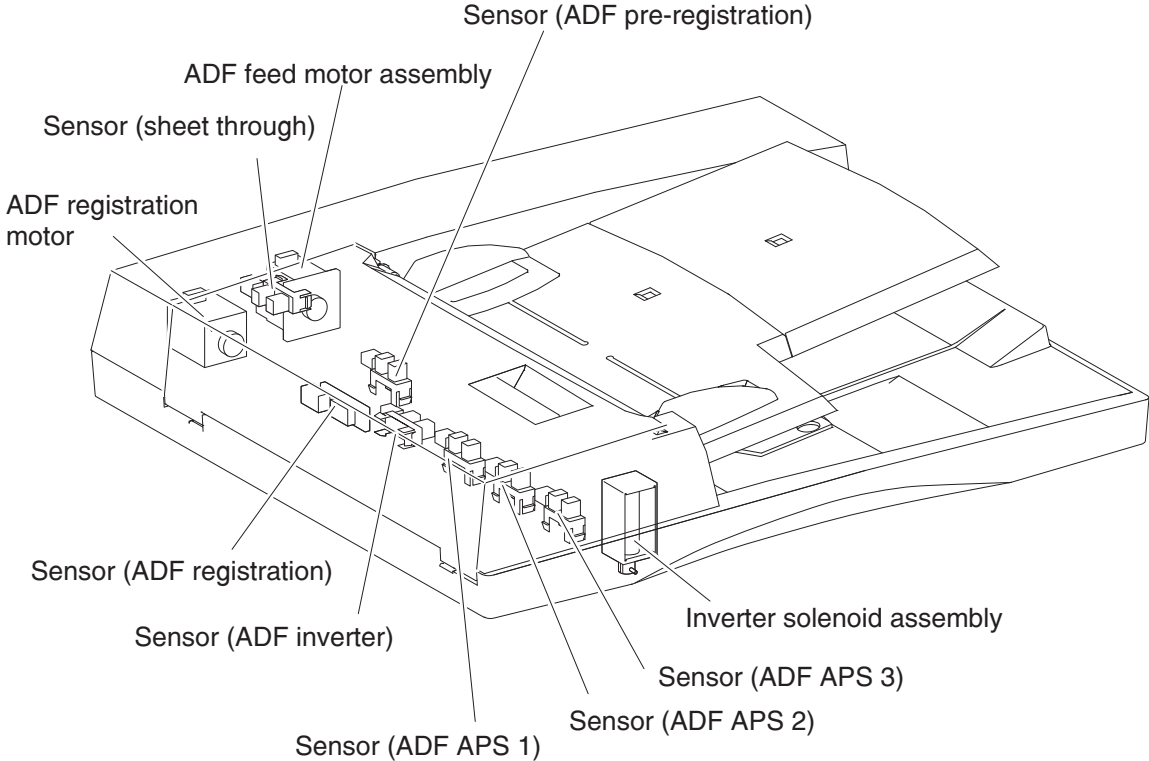
Previous



Next



Go Back



Previous



Next



Go Back

Control

Document size detection at scanner unit assembly

The width (fast-scan-directional size) of the document sheet on the Platen Glass is detected with the CCD image sensor, and the length (slow-scanning-directional size) is detected with the sensor (platen length APS 1) and the sensor (platen length APS 2).

Document size detection timing

The size of the document sheet on the platen glass is detected at the following timings:

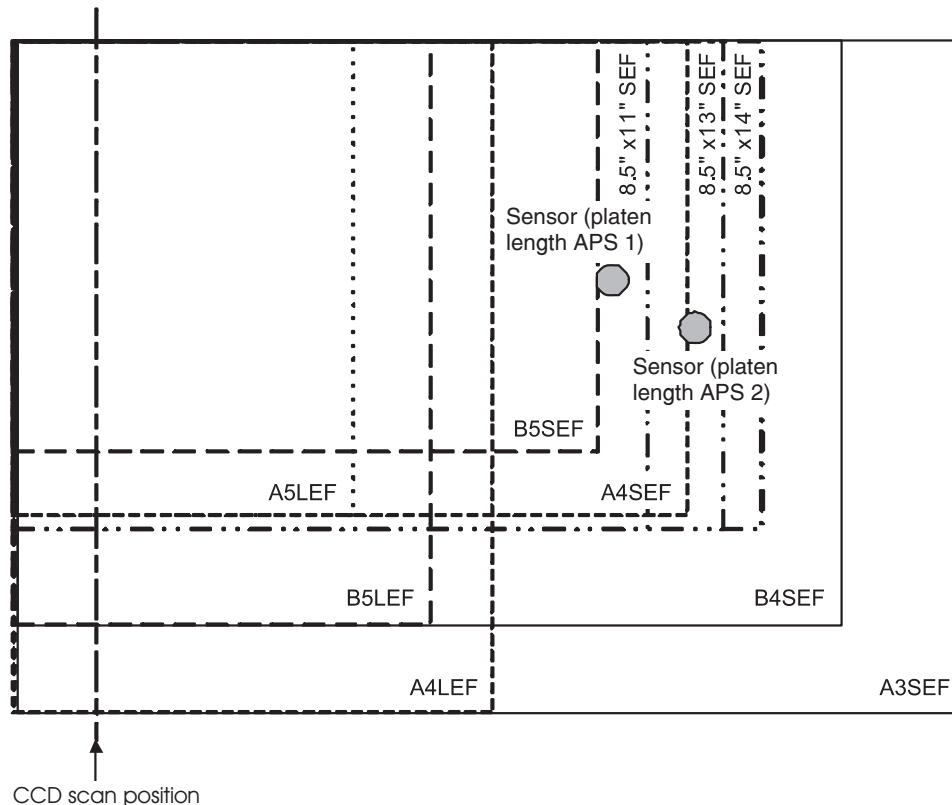
- When the Platen Cover (ADF) is closed
- When the START button is pressed with the Platen Cover (ADF) open

Identification of standard document sizes

The width of the document sheet is detected in millimeters with the CCD image sensor to determine the size in the fast scanning direction. With respect to a pair of documents whose sizes in the fast scanning direction are the same, the document size is determined by detecting paper presence/absence at the positions of sensor (platen length APS 1) and sensor (platen length APS 2) (e.g., A4LEF vs. A3SEF; 8.5x11SEF vs. 8.5x13SEF).

The standard document sizes to be identified by the same given detection information are defined on an area-by-area basis. Each area is to be set in the system data.

The figure below shows the positional relationships among the scan position of the CCD image sensor and the positions of sensor (platen length APS 1) and the sensor (platen length APS 2).



Shown below are the combinations of document size, detection range in the fast scanning direction, and sensors.

Document Size	Width (Fast scanning direction: mm)		Length (Slow scanning direction)		Area		
	Fast scanning Width	Detection Range	Sensor (platen length APS 1)	Sensor (platen length APS 2)	0	1	2
Japanese Post Card SEF	100.0	90—115	Off	Off	X	X	N
Post Card SEF	101.6				N	O	X
A6 SEF	105.0				O	N	O
5 X 7 SEF	127.0	115—138	Off	Off	N	O	N
B6 SEF	128.0				O	N	O
5.5 X 8.5 SEF	139.7	138—163	Off	Off	X	O	X
A5 SEF	148.0				O	X	O
Japanese Post Card LEF	148.0				X	X	N
Post Card LEF	152.4				N	N	X
B5 SEF	182.0	163—188	On	Off	O	X	O
16kai SEF	194.0/ 195.0	188—202	On/Off	Off	X	X	X ^{*3}
A5 LEF	210.0	202—213	Off	Off	O	X ^{*3}	O
A4 SEF	210.0		On	On/Off	O	X ^{*3}	O
5.5 X 8.5 LEF	215.9	213—226	Off	Off	O ^{*1}	O	X ^{*3}
8.5 X 11 SEF	215.9		On	Off	O ^{*1}	O	X ^{*3}
8.5 X 12.4 SEF	215.9		On	On	N	N	X
8.5 X 13 SEF	215.9		O	N	X		
8.5X 14 SEF	215.9		N	O	X		
8 X 10 LEF	254.0	226—262	Off	Off	N	X ^{*4}	X
B5 LEF	257.0		O ^{*2}	X	O		
B4 SEF	257.0		On	On	O	X	O
Executive LEF	266.7	262—267	Off	Off	X	O ^{*4}	X
8 X 10.5 LEF	266.7		X ^{*2}	N	X		
16kai LEF	267.0/ 270.0	267—275	Off	Off	X	X	X ^{*3}
8kai SEF			On	On/Off	X	X	X ^{*3}
8.5 X 11 LEF	279.4	275—289	Off	Off	O ^{*2}	O	X ^{*5}
11 X 14.9 SEF	279.4		On	On	N	N	X
11 X 17 SEF	279.4		O	O	X ^{*5}		

Previous



Next



Go Back

Document Size	Width (Fast scanning direction: mm)		Length (Slow scanning direction)		Area		
	Fast scanning Width	Detection Range	Sensor (platen length APS 1)	Sensor (platen length APS 2)	0	1	2
A4 LEF	297.2	289—307	Off	Off	O	O	O ^{*5}
A3 SEF	297.2		On	On	O	O	O ^{*5}

O: Detectable by default.

N: Detectable by replacing the document size marked as O with the system data having the same detection information.

X: Not detectable.

*1: Changeable from 5.5 X 8.5 LEF to A5 LEF, or from 8.5 X 11 SEF to A4 SEF by the system data.

*2: Changeable from B5 LEF or 8.5 X 11 LEF to 8 X 10.5 LEF by the system data.

*3: Detectable by setting the system data.

*4: Changeable from Executive LEF to 8 X10 LEF.

*5: Changeable from A4 LEF to 8.5 X 11 LEF, or from A3 SEF to 11 X 17 SEF.

ADF document size detection

The ADF first detects the document size when the document is set on the document tray, and detects the document size again when the document travels.

When the document is set on the document tray, the document size is determined by a combination of ON/off status of the sensor (ADF APS 1), sensor (ADF APS 2) and the sensor (ADF APS 3) for detecting the document width (in the fast scanning direction) and ON/off status of the sensor (document tray length 1) and the sensor (document tray length 2) for detecting the document length (in the slow scanning direction).

The document width is detected according to whether the sensor (document tray width 1), sensor (document tray width 2) and the sensor (document tray width 3) are shielded (blocked) or unshielded (unblocked) by the document tray size actuator moving in conjunction with guides of the document tray.

The document length is detected according to whether the sensor (document tray length 1) and the sensor (document tray length 2) are shielded (blocked) or unshielded (unblocked) by the document set on the tray.

When different-sized sheets are stacked on the tray, the document size is determined by using the largest possible combination of width and length obtained from the sheets.

Previous

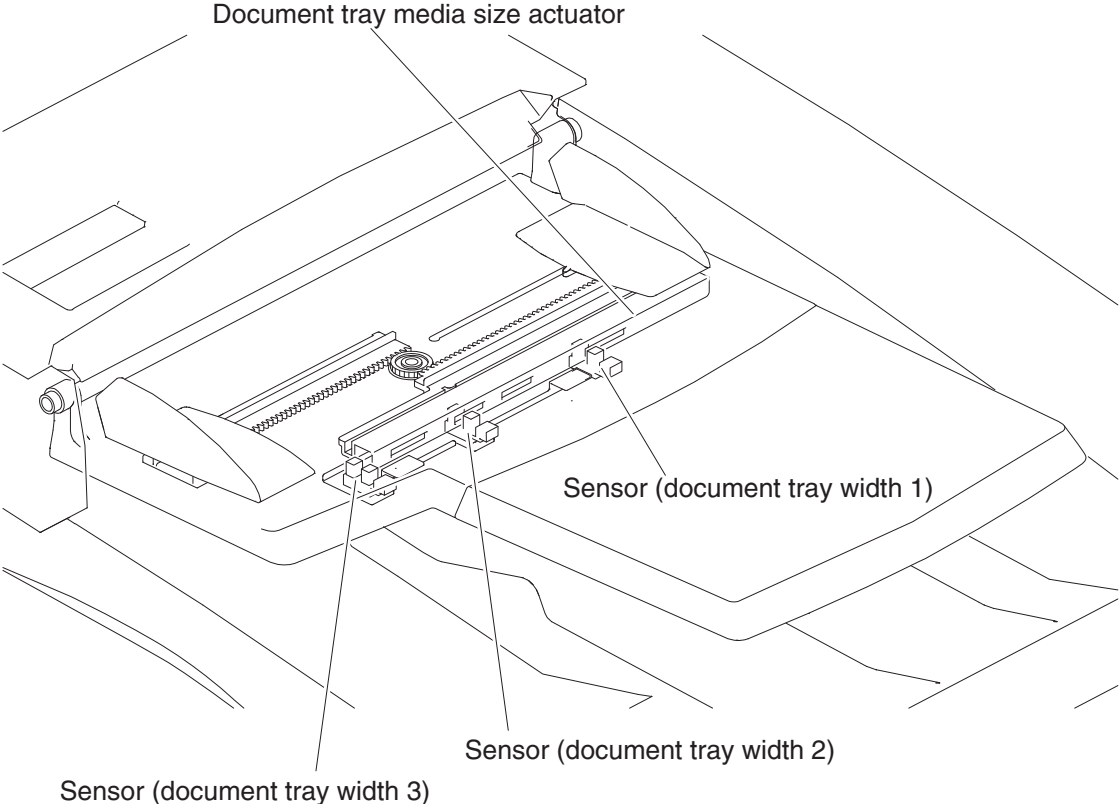


Next



Go Back

The standard document sizes to be identified by the same given detection information are defined on an area-by-area basis. Each area is to be set in the system data.



Previous



Next



Go Back

The table below shows the combinations of document sizes and sensors.

Document Size	Width (Fast scanning direction) Sensor (document tray width *)			Length (Slow scanning direction) Sensor (document tray length *)		Area		
	1	2	3	1	2	0	1	2
5.5 X 8.5 SEF	Off	Off	Off	On	Off	X	O	X
A5 SEF						O	X	O
B5 SEF	Off	Off	Off	On	Off	X	X	O
8 X 10 SEF						X	O	X
8 X 10.5 SEF						O	X	X
A5 LEF	Off	On	Off	Off	Off	O	O	O
A4 SEF				On	Off	O	O	O
5.5 X 8.5 LEF	Off	On	On	Off	Off	O	O	O
8.5 X 11 SEF				On	Off	O	O	O
8.5 X 13 SEF				On	On	O	X	X
8.5 X 14 SEF				X	O	O		
8 X 10 LEF				On	Off	On	On	Off
B5 LEF	On	Off	On	Off	Off	O	O	O
B4 SEF				On	On	O	O	O
8 X 10.5 LEF				On	Off	Off	On	Off
Executive LEF	On	Off	Off	Off	Off	O	O	X
16kai LEF				X	X	O		
8kai SEF				On	On	O	O	O
8.5 X 11 LEF	On	On	Off	On	Off	O	O	O
11 X 17 SEF				On	On	O	O	O
A4 LEF	On	On	On	On	Off	O	O	O
A3 SEF				On	On	O	O	O

O: Detectable

X: Not Detectable

While the document is traveling, document size detection is performed as follows.

When the document goes through the sensor (ADF APS 1), sensor (ADF APS 2) and the sensor (ADF APS 3), the document width in the fast scanning direction is detected according to the combination of shielded/unshielded status of each sensor.

The document length in the slow scanning direction is detected by the scanning time measured from the moment when the document starts scanning from the wait position (see Pre-registration) until its tail end passes through the sensor (ADF sheet through).

Previous



Next



Go Back

Document scanning steps

The CCD image sensor is used to read image data from the document. To stabilize the read image data, the CCD image sensor output is adjusted and the read image data is compensated.

The CCD image sensor output is adjusted with the gain/offset voltage of the amplifier in the analog circuit. This adjustment includes AGC and AOC.

In addition, the reference data is collected and compensation values are calculated to compensate for the read image data. This compensation includes shading compensation, white variation compensation, and black variation compensation. These adjustment and compensation steps are detailed below.

The reference data is prepared by reading the image data of a white reference plate via the CCD image sensor.

AGC (auto gain control): white level coarse adjustment

AGC is a function that adjusts the gain so that the CCD image sensor output becomes as specified when the exposure lamp is on. AGC functions as a coarse white level adjustment of the image. AGC is performed at initialization.

AOC (auto offset control)

AOC is a function that adjusts the offset voltage so that the CCD image sensor output becomes as specified when the exposure lamp is off. AOC functions as a black level adjustment of the image. AOC is performed at initialization.

Shading compensation

Shading compensation is a function that compensates for pixel-to-pixel sensitivity variation of the CCD image sensor and pixel-to-pixel output variation of the CCD image sensor that is caused by illumination non uniformity in the fast scanning direction of the optical system.

Shading compensation is performed at initialization.

White level variation compensation

White level variation compensation is performed to compensate for variation in light quantity of the exposure lamp.

White level variation compensation includes two processes: acquisition of white variation compensation reference data during initialization and white variation compensation during document scanning.

For the ADF, white level variation compensation is performed at both the white reference plate position of the platen and at the white reference plate of the scanner read position.

Black level variation compensation

Black level variation compensation is performed to compensate for variation in black level that is caused by the temperature drift of the CCD image sensor and analog circuit.

Black level variation compensation is performed during document scanning.

For the platen, black level variation compensation is performed at the white reference plate position of the platen. For the ADF, black level variation compensation is performed at the scanner read position.

Previous

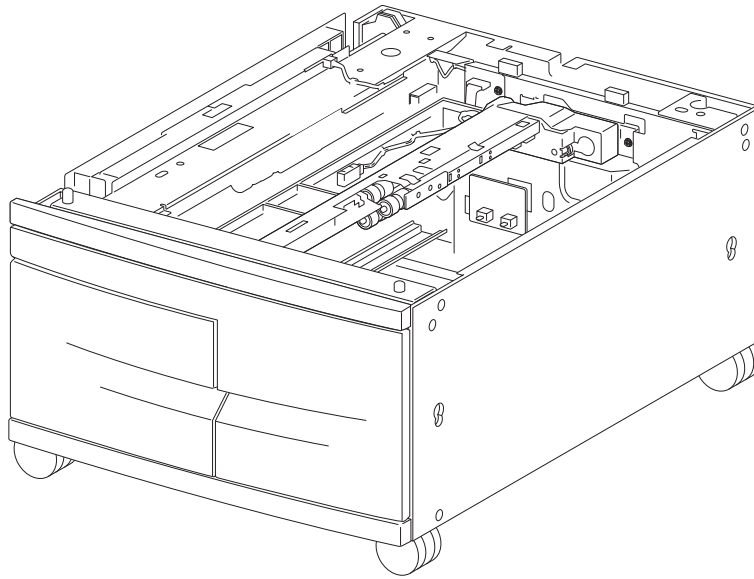


Next



Go Back

Tandem tray theory



Previous



Next

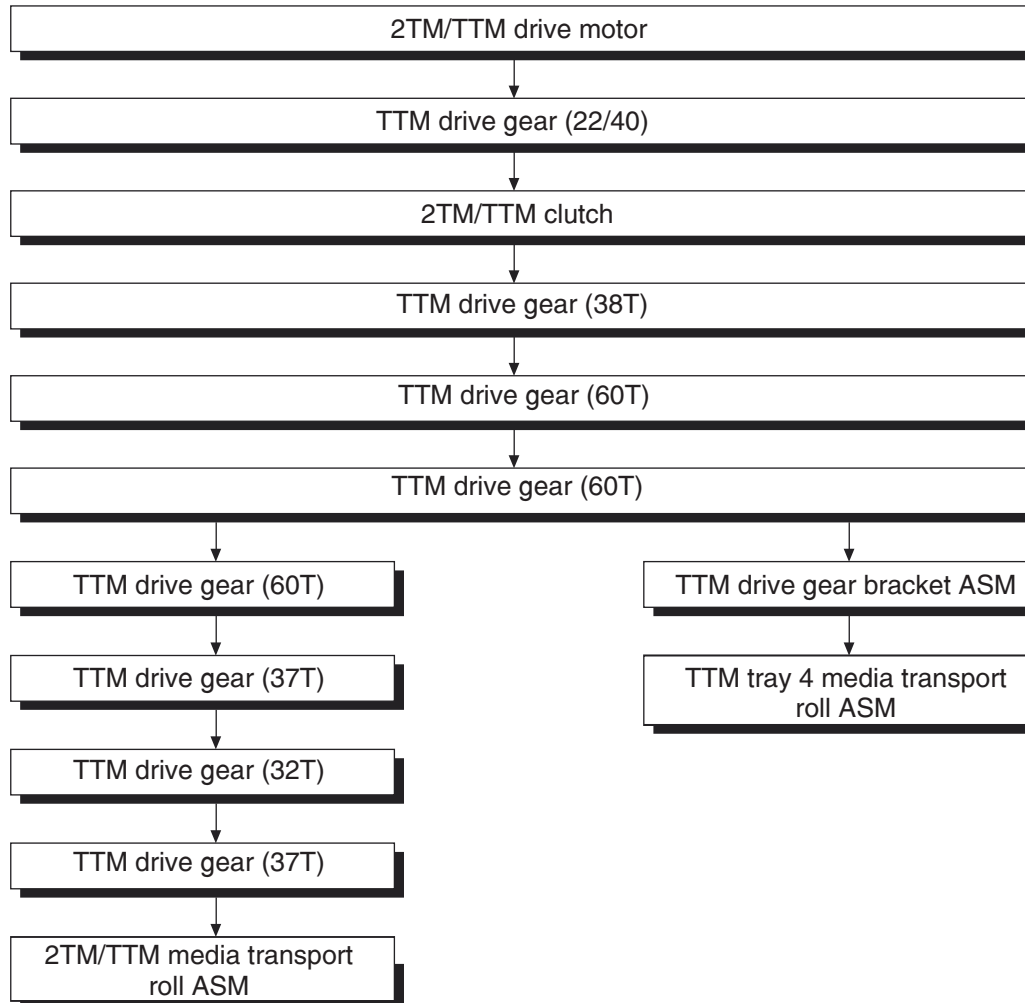


Go Back

Driving force transmission path

2 tray / tandem tray drive motor assembly

The rotating force of the 2 tray / tandem tray motor is transmitted through the gears to components that require mechanical driving force as shown below.



The driving force transmitted to the gear 22/40T drives the transport roll assembly through the clutch and gears.

Previous



Next

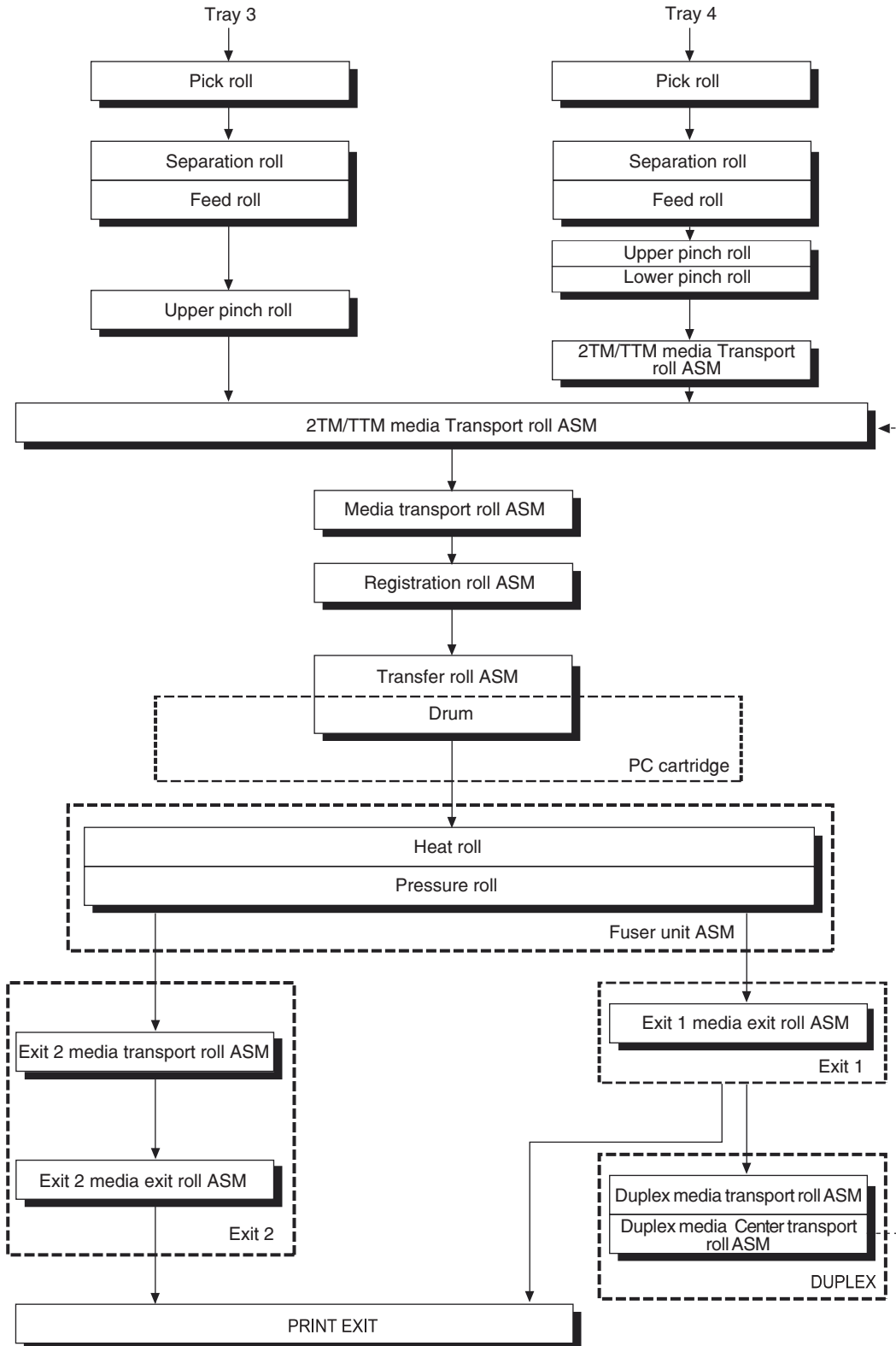


Go Back

Media transport

Media transport path

Media is supplied from tray 3 or tray 4, and is transported to the printer along the media transport path shown below.



Previous



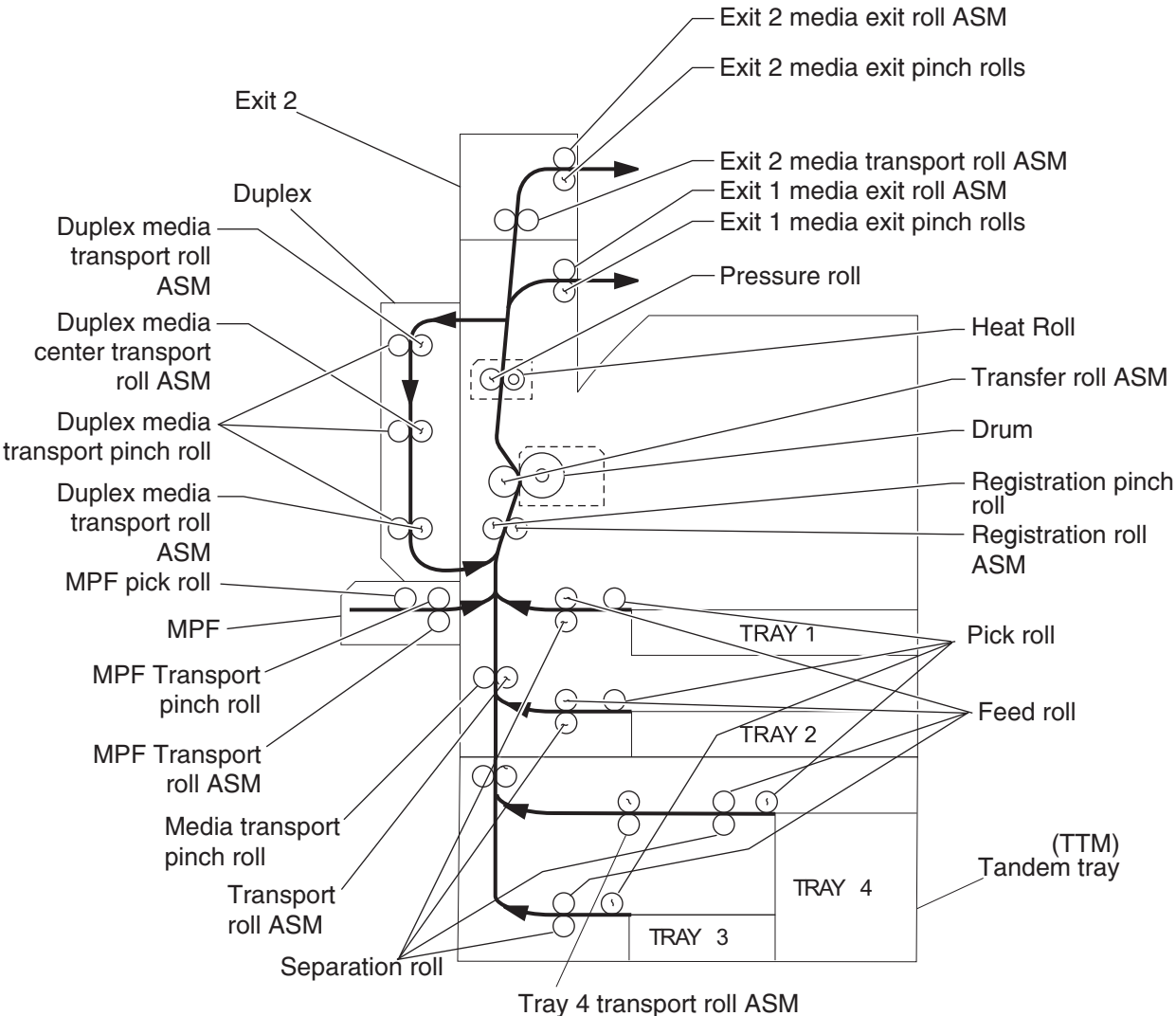
Next



Go Back

Media transport path

The following is a cross section of the printer and the tandem tray module, showing the main components directly associated with the media path and transport.



Functions of main components

When the tandem tray module is installed under the printer, additional trays are available.

Media tray assembly

Media feed unit assembly

It is necessary to adjust the front and rear side guides in the media tray assembly to match the media size.

Front media guide / rear media guide

The front media guide can be adjusted to different media sizes by moving it to the front or rear. These guides come into contact with the front and rear edges of the media and hold it in position.

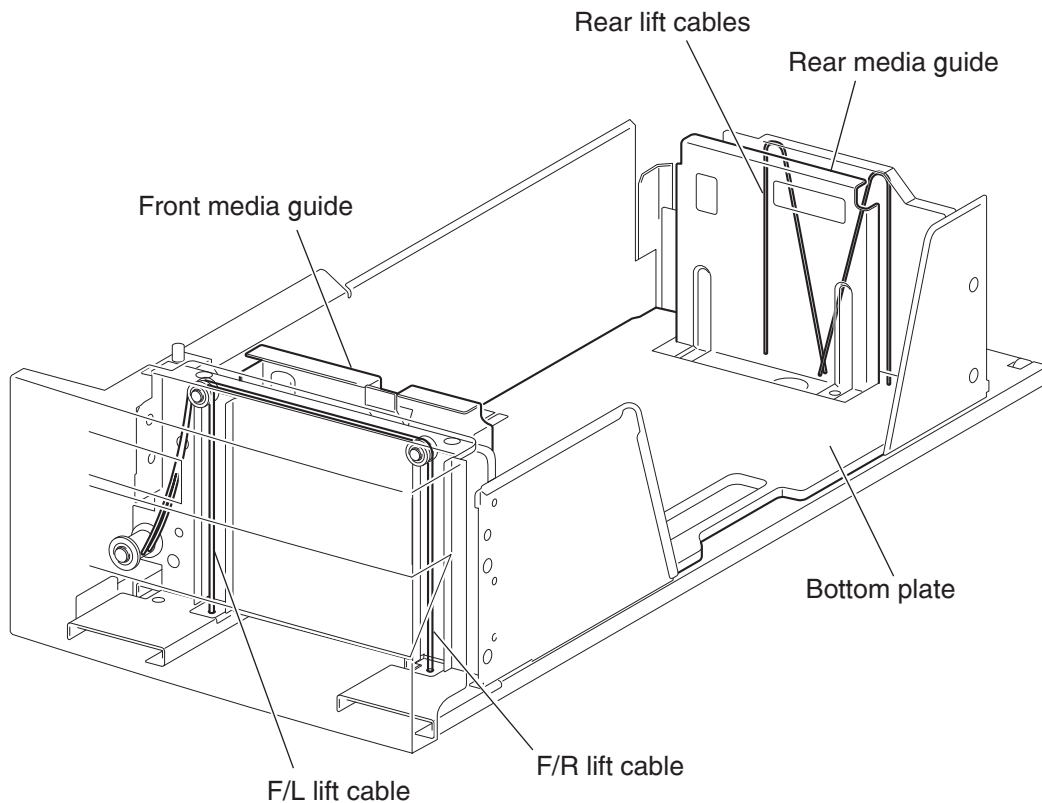
The rear side guide moves together with the front side guide.

Bottom plate

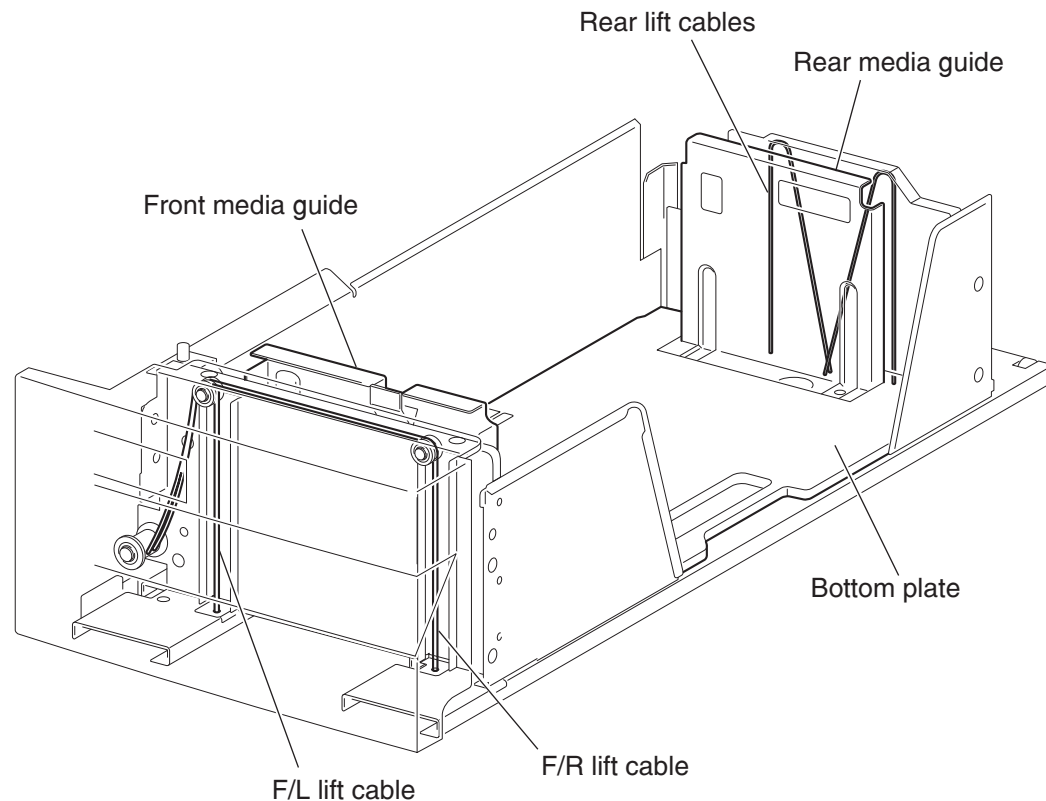
The force pushing up the bottom plate of tray 3 is transmitted by the driving force of the media feed lift motor on the media feed unit assembly to the media lift shaft assembly through the tray lift gear assembly 3. The bottom plate is lifted up via the rear tray cables, front right cable and front left cable by the rotation of the tray lift shaft assembly, which causes the supplied media to come into contact with the pick roll.

The force pushing up the bottom plate of tray 4 is transmitted to the tray lift shaft assembly through the tray lift gear assembly 4. The bottom plate is lifted up via the front tray cables and rear tray cables by the rotation of the tray lift shaft assembly, which causes the supplied media to contact the pick roll.

Tray 3 media tray assembly



Tray 4 media tray assembly



Previous



Next



Go Back

Media feed unit assembly

Since the tray 3 and tray 4 are functionally equivalent in terms of the switch (TTM media size), sensor (media out), sensor (media level) and sensor (pre-feed), only the components of one tray are described here.

The media feed unit assembly is a mechanical unit supplying media from the media tray assembly to the printer. The driving force from the media feed lift motor on the media feed unit assembly is transmitted to the three roll assemblies to feed media.

When the pick roll picks up sheets of media and the remaining media decreases, the media level actuator of the sensor (media level) lowers accordingly.

Media feed lift motor

The media feed lift motor is activated to feed media and to lift the bottom plate. While feeding media, it rotates forward to drive the pick roll. When lifting the bottom plate, it rotates in reverse to drive the tray module gears to turn the lift up shaft.

Switch (TTM media size)

The switch (TTM media size) switches the setting of the size of media supplied from each media tray assembly. A signal indicating the set size is transmitted as a voltage to the printer engine card assembly.

Sensor (media out)

If there is no media in the media tray assembly, the media out actuator lowers and the flag of the media out actuator that has stayed in the sensor (media out) sensing area leaves there. Thus, the light of the sensor is transmitted. When the sensing area is blocked (media is present), the signal turns off.

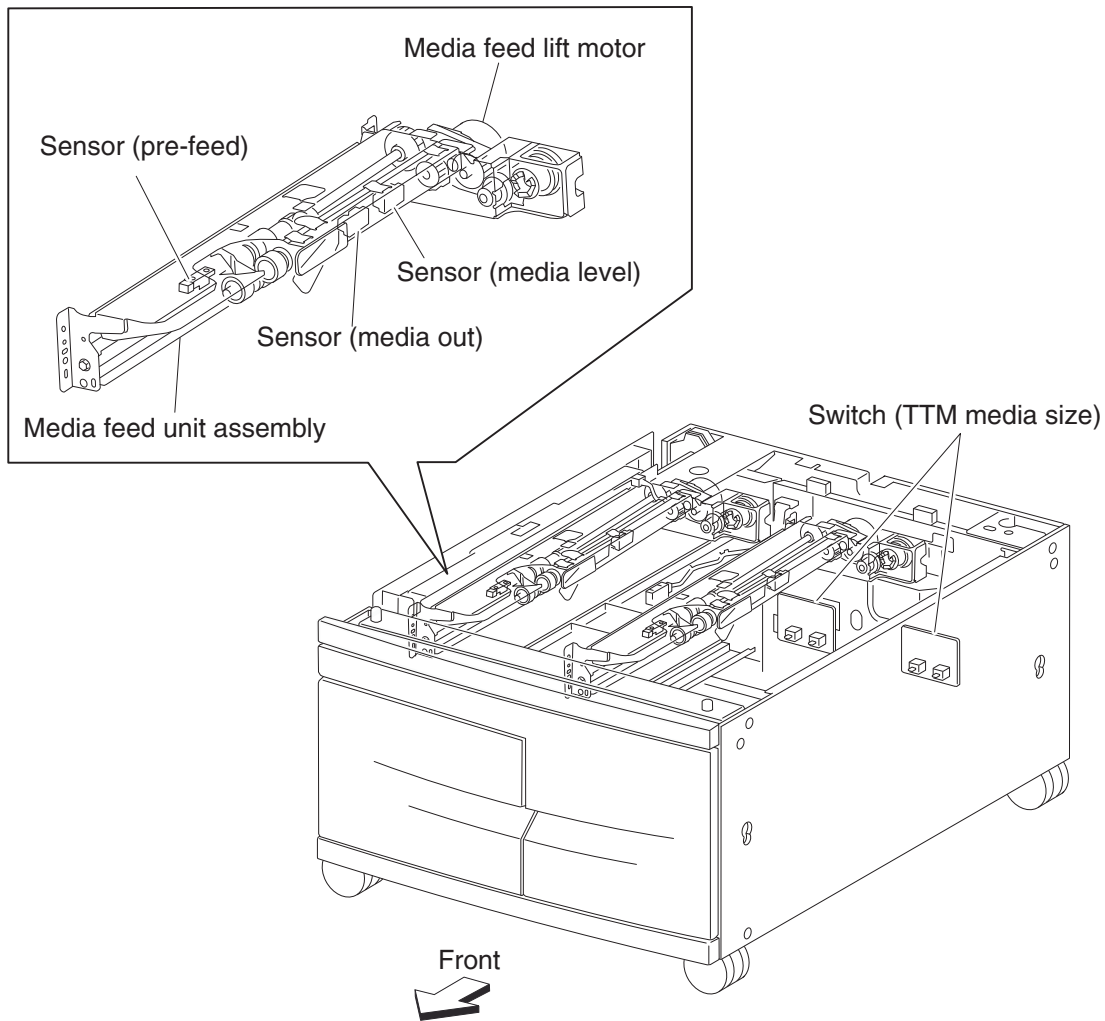
Sensor (media level)

This sensor detects by the actuator position whether media in the media tray assembly is lifted. When the flag of the actuator leaves the sensor (media level) sensing area, the sensor detects that the media has been lifted.

Sensor (pre-feed)

This sensor detects a media jam in the media tray assembly by the media position and sensor on/off time.

The sensor on/off states can be monitored by media passing through the sensor (pre-feed) sensing area.



Previous



Next



Go Back

Main components

Switch (2TM/TTM left door interlock)

The left door interlock switch detects open/close of the left door assembly.

Sensor (tray 3 feed-out)

The sensor (tray 3 feed-out) detects media fed from the tray 3 or tray 4.

Sensor (tray 4 feed-out)

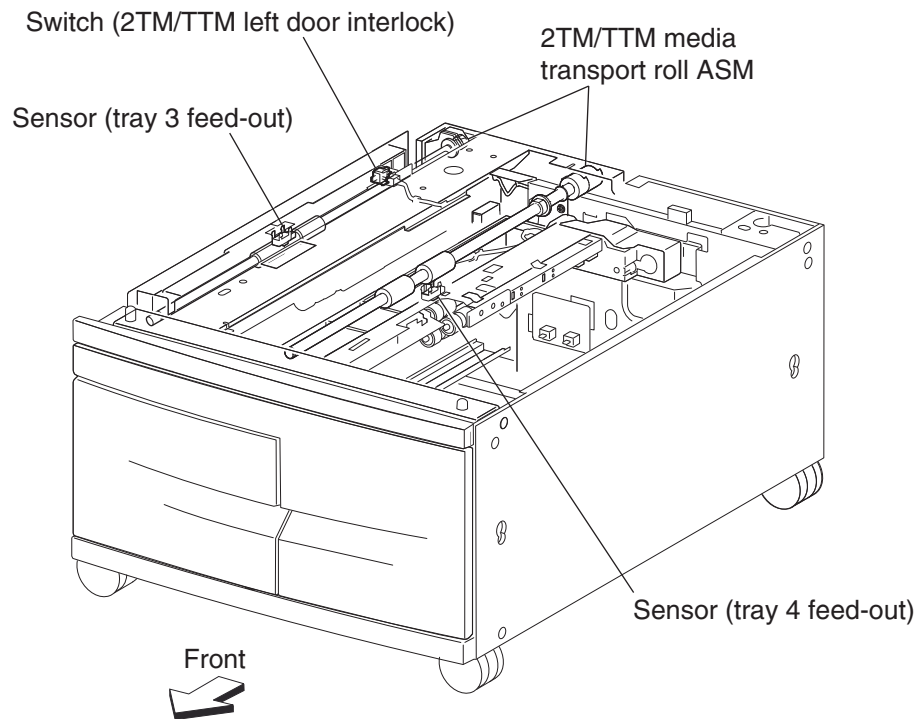
The sensor (tray 4 feed-out) detects media fed from the tray 4.

2TM/TTM media transport roll assembly

The 2TM/TTM transport roll assembly feeds media from the tray 3 or tray 4 to the printer.

2TM/TTM controller card assembly

The 2TM/TTM controller card assembly, which contains a CPU, controls media feed in the tandem tray module upon receiving a command from the printer engine card assembly and sensor/switch information.



Previous



Next



Go Back

Switch (tandem tray media size)

The following table gives on/off states of the switches on the switch (TTM media size), corresponding to the media sizes of the media tray assembly.

Note: The switches (TTM media size) are denoted by “S/W1” and “S/W3” respectively from the left side.

Media Size	Analog switch	
	S/W1	S/W3
No Tray	Off	Off
B5L/7.25" x 10.5"L	Off	On
8.5" x 11"L	On	Off
A4L	On	On

Previous



Next



Go Back

Duplex

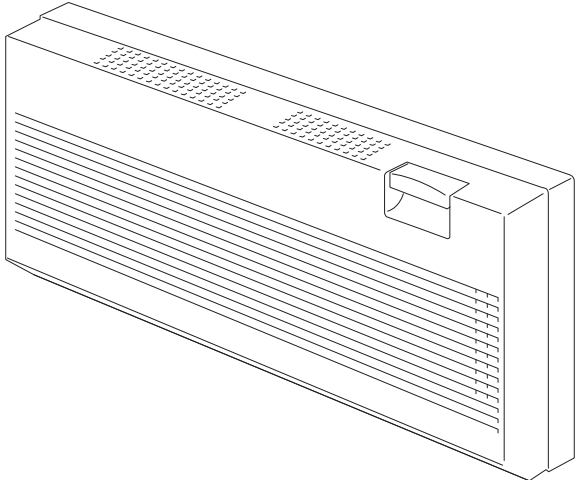
Previous



Next

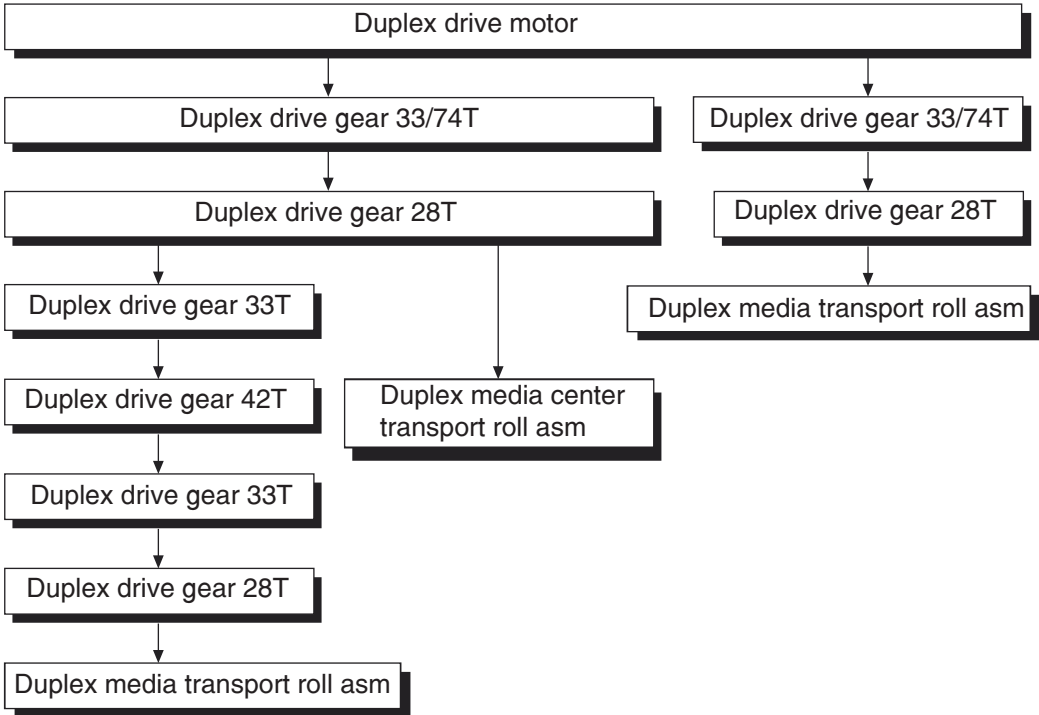


Go Back



Duplex drive motor

The rotating force of the drive motor is transmitted through the gears to components that need mechanical driving force as shown below.

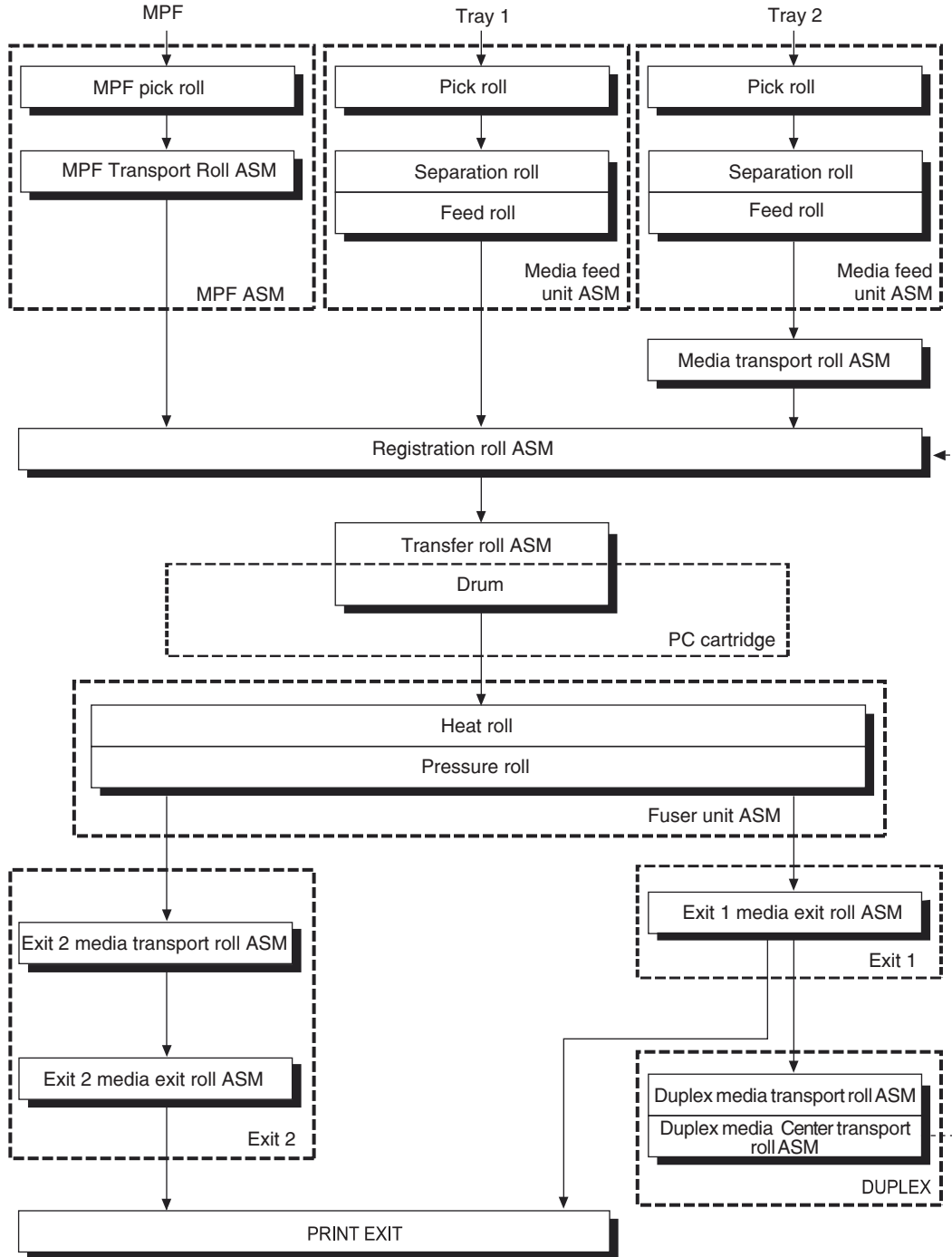


The transmitted driving force drives the two duplex media transport roll assemblies, and the (duplex media center transport roll assembly) through the gears.

Media transport

Media transport path

With the duplex installed, media is supplied from the MPF, tray 1 or tray 2, and is transported to the printer along the media transport path shown below.



Previous



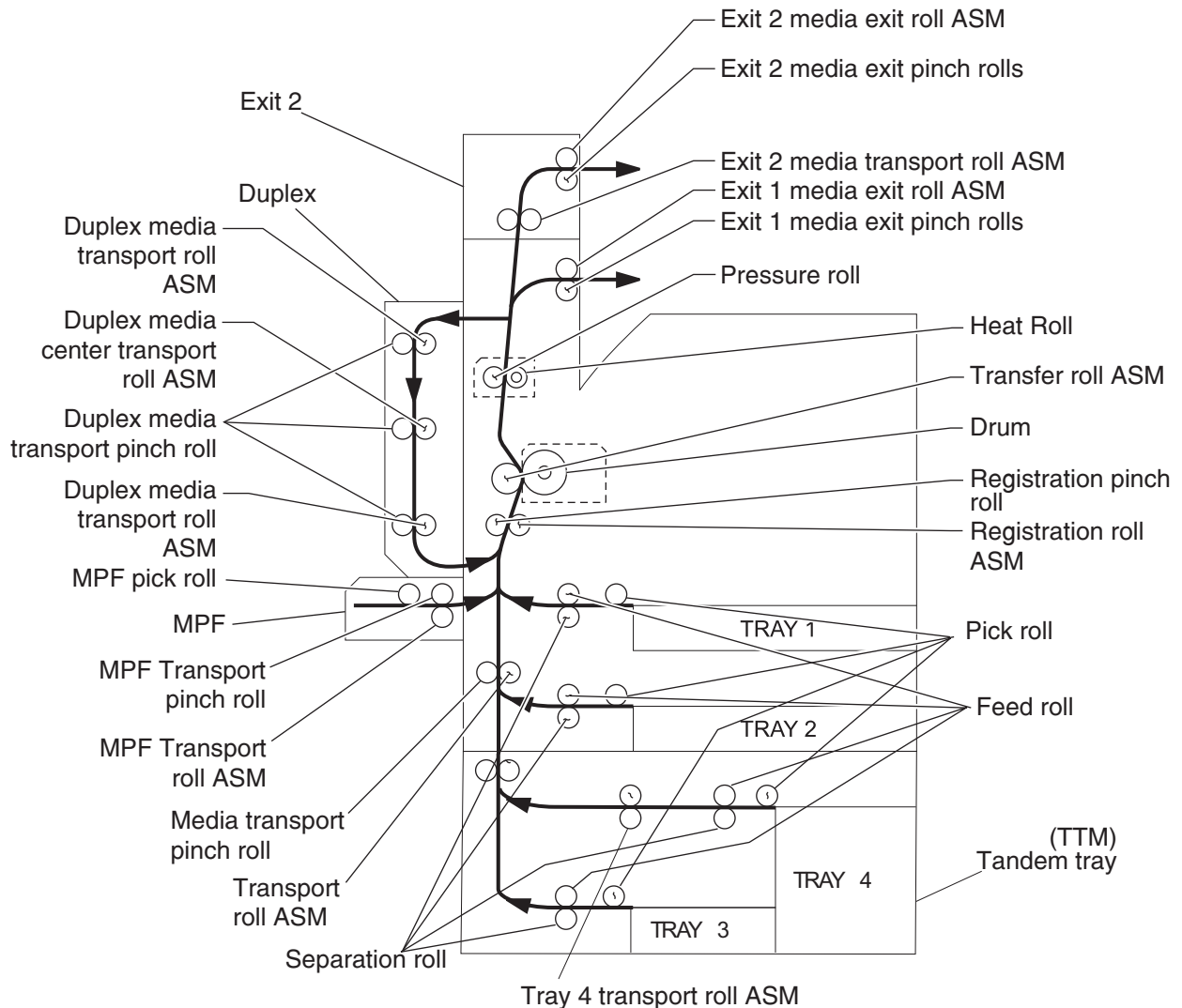
Next



Go Back

Layout of media transport path

The main components associated with the media path and transport with the duplex installed.



Previous



Next



Go Back

Functions of main components

When the duplex is installed to the left of the printer, duplex (double-sided) printing is available with the printer.

The following outlines the functions of the main components of the duplex.

Switch (duplex left door interlock)

The switch (left door interlock) detects open/close of the left door.

Sensor (duplex wait)

The sensor (duplex wait) detects whether media is remaining in the duplex.

Duplex media transport roll assembly

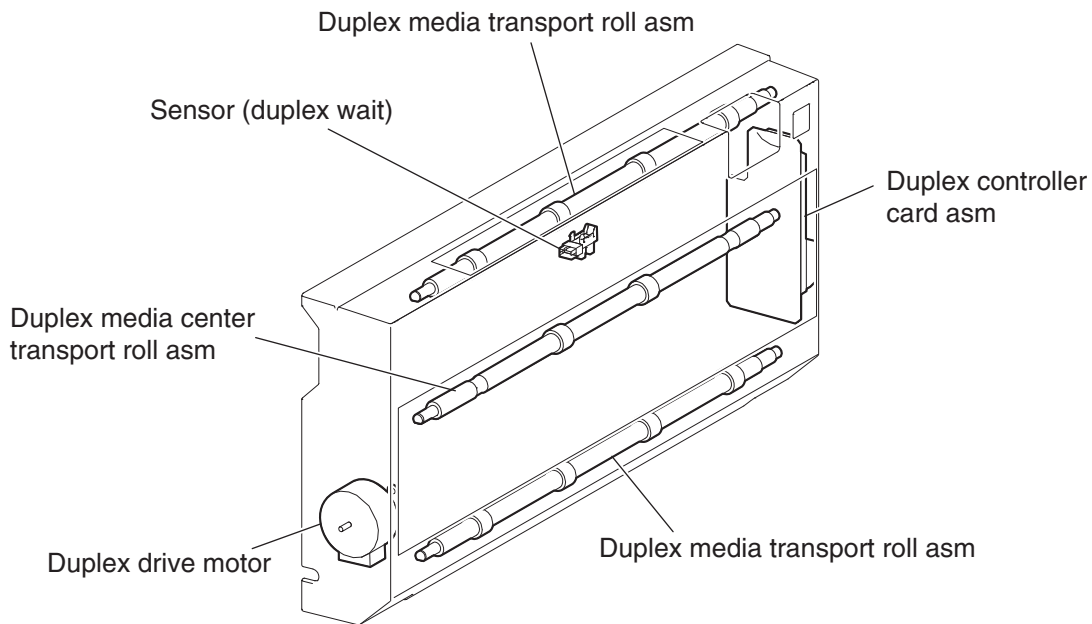
The two duplex media transport roll assemblies and the duplex media center transport roll assembly re-feeds the media printed on the front side through the duplex to print on the rear side.

Duplex controller card assembly

The duplex controller card assembly that contains a CPU controls media feed in the duplex upon receiving a command from the printer engine card assembly and sensor/switch information.

Duplex drive motor

The duplex drive motor transmits driving force to the two duplex media transport roll assemblies and the duplex media center transport roll assembly middle that feeds media.



Previous



Next



Go Back

Exit 2

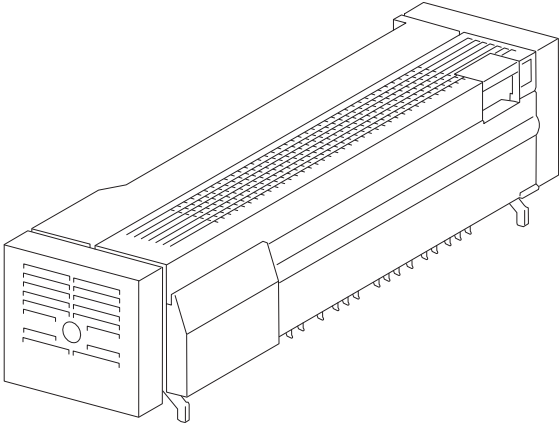
Previous



Next

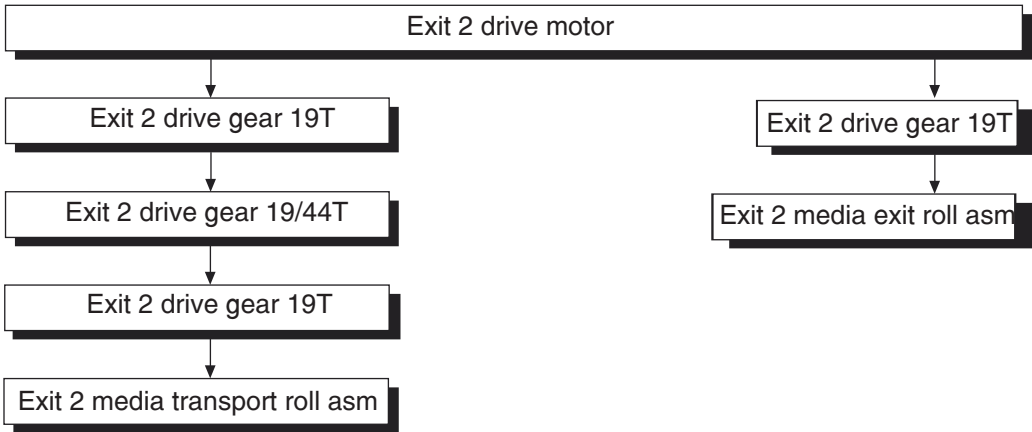


Go Back



Exit 2 drive motor

The rotating force of the exit 2 drive motor is transmitted through the gears to components that need mechanical driving force as shown below.

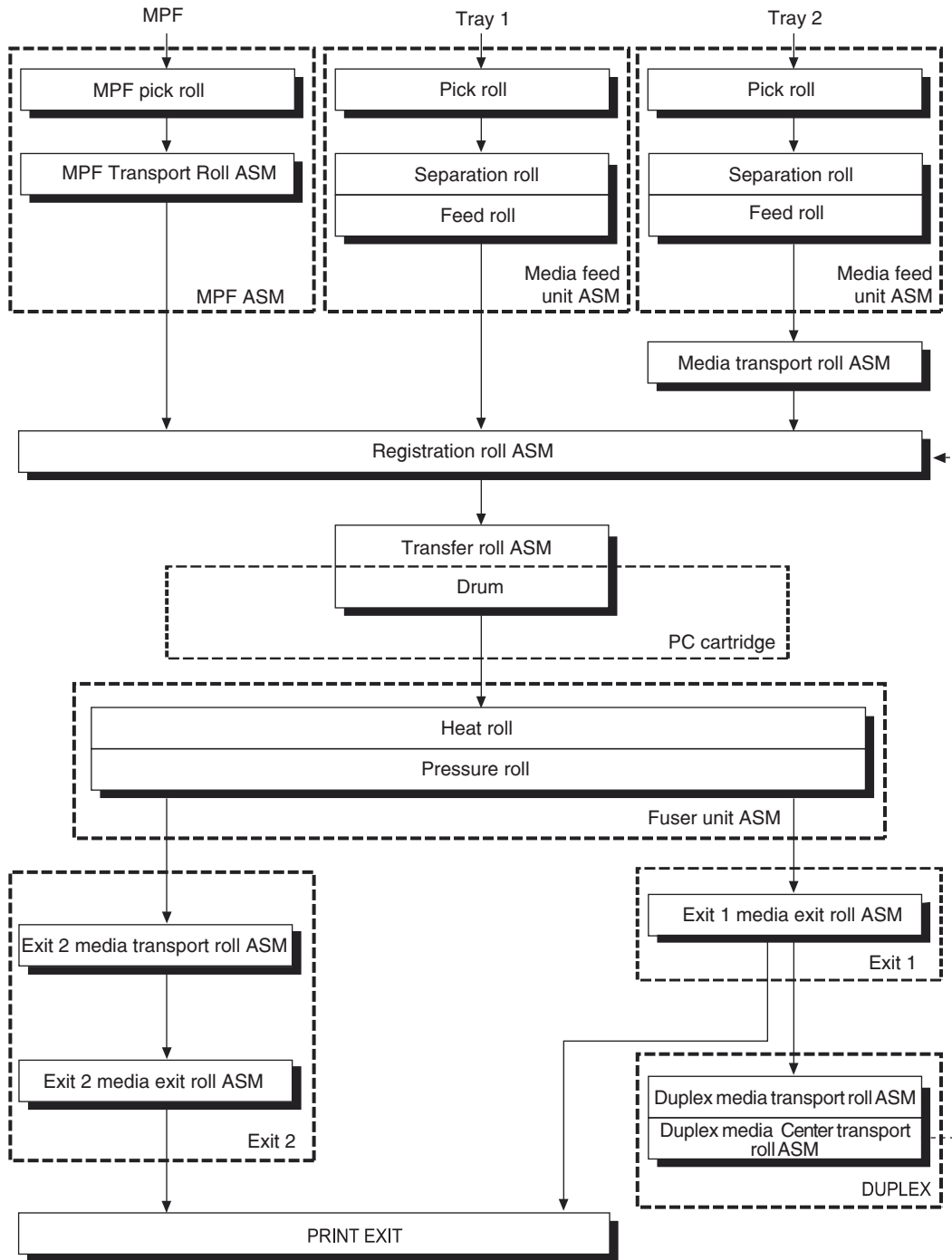


The transmitted driving force drives the exit 2 media transport roll assembly and the exit 2 media exit roll assembly through the gears.

Media transport

Media transport path

With the exit 2 installed, media is supplied from the MPF, tray 1, or tray 2 and is transported to the printer along the media transport path shown below.



Previous



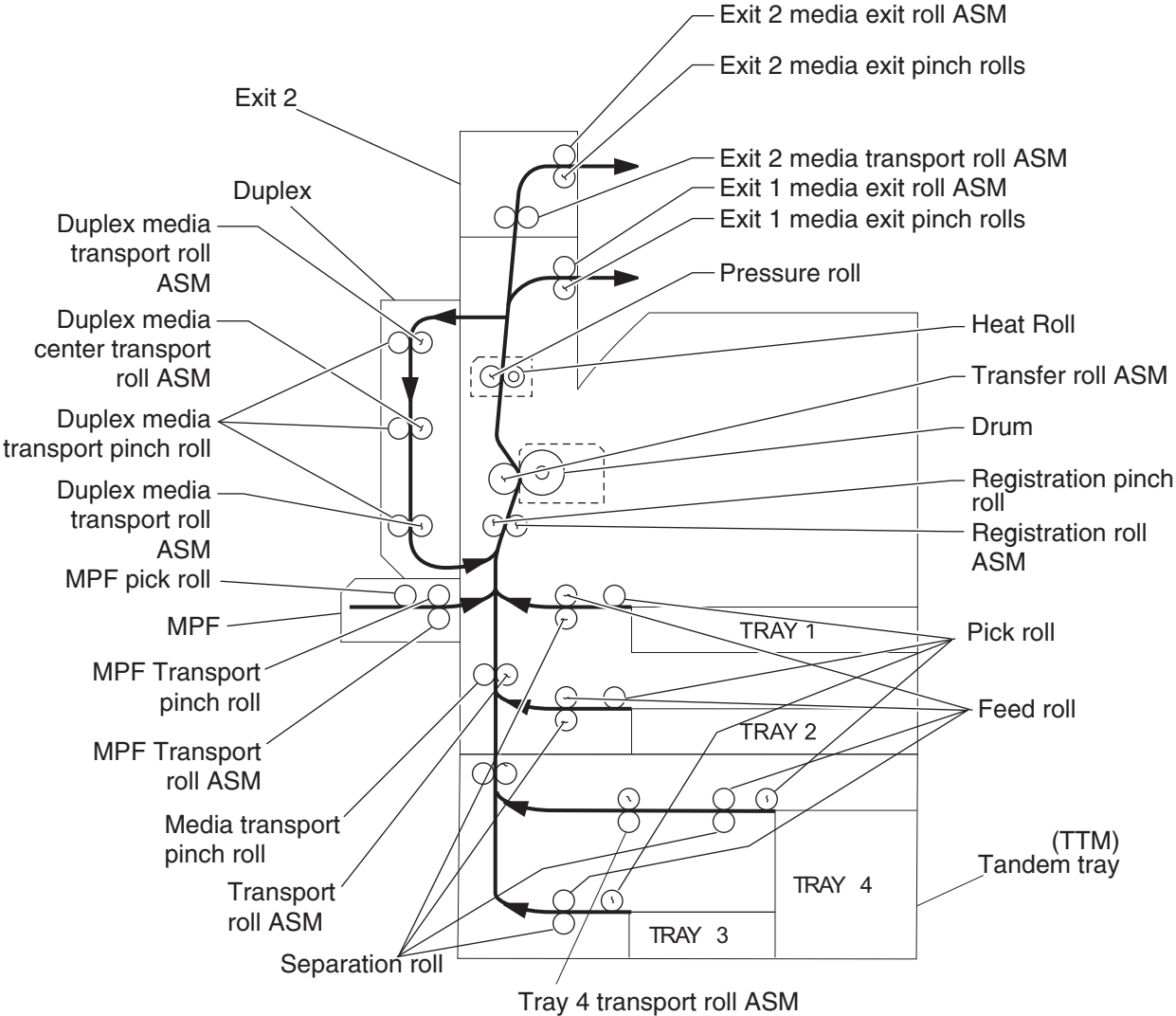
Next



Go Back

Layout of media transport path

The following figure illustrates the main components directly associated with the media path and transport with the exit 2 installed.



Functions of Main Components

Drive motor

The drive motor is a stepping motor driving the transport roll assembly and media exit roll assembly. Forward rotation of this motor drives these rollers to feed media to the exit 2 standard bin. Reverse rotation of this motor drives the transport roll assembly to feed media to the duplex.

Media shift motor

The media shift motor is a stepping motor moving the media exit roll assembly forward or rearward. Forward rotation of this motor moves the media exit roll assembly to the front side. Reverse rotation of this motor moves it to the rear side.

Exit interface card assembly (located in the printer)

The exit interface card assembly contains a CPU and controls media feed in the exit 2 upon receiving a command from the printer engine card assembly and sensor/switch information.

Exit 2 left door assembly

The left door assembly detects open/close of the exit 2.

Sensor (exit 2)

The sensor (exit 2) detects whether media is remaining in the exit 2.

Sensor (Standard bin full exit 2)

The sensor (exit 2 standard bin full) detects whether the standard bin is full.

Sensor (exit 2 media shift HP)

The sensor (exit 2 media shift HP) detects the media exit roll assembly position.

Previous



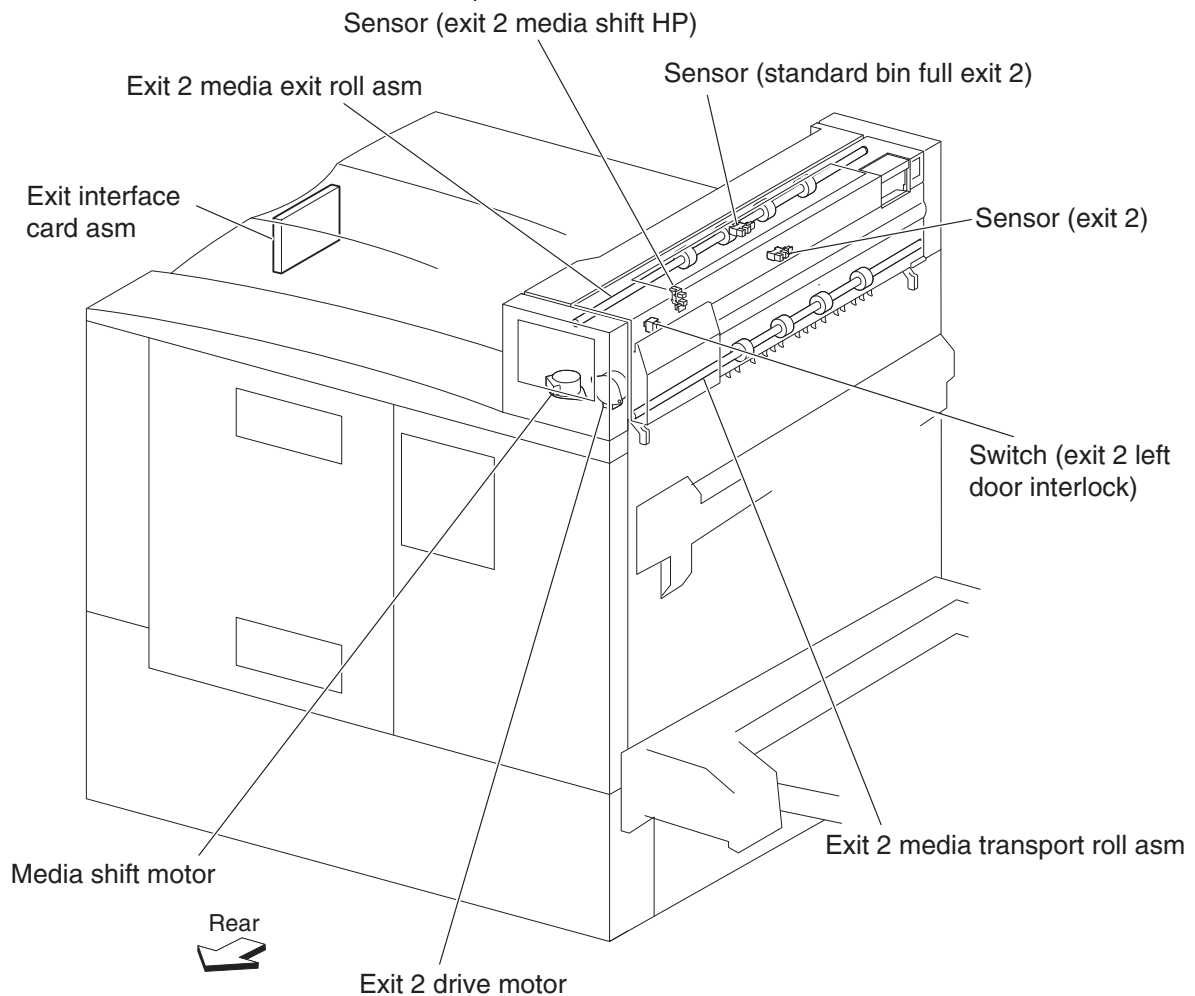
Next



Go Back

Exit 2 transport roll assembly and media exit roll assembly

The exit 2 transport roll assembly and exit 2 media exit roll assembly are rollers used to eject media to the exit 2 standard bin or to feed media to the duplex.



Previous



Next



Go Back

Tools required for service

- Flat-blade screwdriver
- #1 Phillips screwdriver, magnetic
- #2 Phillips screwdriver, magnetic
- #2 Phillips screwdriver, magnetic short-blade
- Needle nose pliers
- Diagonal side cutters
- Spring hook
- Analog or digital multi meter
- Parallel wrap plug 1319128
- Twinax/serial debug cable (#1381963)
- Coax/serial debug cable (#1381964)
- 5.5 mm hexdriver (magnetic)

Acronyms

2TM	2 Tray Module
AC	Alternating Current
ADF	Automatic Document Feeder
APS	Automatic Paper Size
ASIC	Application Specific Integrated Circuit
CRU	Customer Replaceable Unit
CSU	Customer Setup
CCW	Counterclockwise
CW	Clockwise
DC	Direct Current
DIMM	Dual Inline Memory Module
DRAM	Dynamic Random Access Memory
EDO	Enhanced Data Out
EP	Electrophotographic Process
EPROM	Erasable Programmable Read-only Memory
ESD	Electrostatic Discharge
FRU	Field Replaceable Unit
GB	Gigabyte
GFI	Ground Fault Interrupter
HCF	High-Capacity Feeder
HVPS	High Voltage Power Supply
LASER	Light Amplification by Stimulated Emission of Radiation
LCD	Liquid Crystal Display
LD	Laser Diode
LED	Light-Emitting Diode
LEF	Long Edge Feed
LVPS	Low Voltage Power Supply
MPF	Multi-Purpose Feeder
MS	Microswitch
NVM	Nonvolatile Memory
NVRAM	Nonvolatile Random Access Memory
OEM	Original Equipment Manufacturer
OPT	Optical Sensor
PC	Photoconductor
PEL	Picture element
POR	Power-on Reset
POST	Power-on Self Test
PPM	Pages Per Minute
PSC	Parallel Synchronous Communications
PSD	Position Sensing Device
PWM	Pulse Width Modulation
RADF	Recirculation Auto Document Feeder
RFID	Radio Frequency Identification
RIP	Raster Imaging Processor
ROM	Read only Memory
RPM	Revolutions Per Minute
SDRAM	Synchronous Dual Random Access Memory
SEF	Short Edge Feed
SIMM	Single Inline Memory Module
SOS	Start of Scan
SRAM	Static Random Access Memory

Previous



Next



Go Back

TTM	Tandem Tray Module
TVOC	Total Volatile Organic Compound
UPR	Used Parts Return
V	Volts
V ac	Volts alternating current
V dc	Volts direct current

Previous



Next



Go Back

Previous



Next



Go Back

2. Diagnostic information

Previous



Next



Go Back

Start

	<p>CAUTION—SHOCK HAZARD:</p> <p>Remove the power cord from the electrical outlet and then from the printer before connecting or disconnecting any cable, assembly, or electronic board. This is a precaution for personal safety and to prevent damage to the printer. Disconnect any connections between the printer and PCs/peripherals.</p>
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	<p>CAUTION—POTENTIAL INJURY:</p> <p>The printer weighs approximately 75 kg (165 lbs) and requires two or more trained personnel to lift it safely. Make sure your fingers are not under the printer when you lift or set the printer down.</p>
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	<p>CAUTION—SHOCK HAZARD:</p> <p>If the printer is kept on, never touch the conductive parts while it is not specifically required. The power switch and inlet of the low voltage power supply card (LVPS card) assembly is live even while the power supply is cut off. Never touch the live parts.</p>
--	--

	<p>CAUTION—HOT SURFACE:</p> <p>The inside of the printer might be hot. To reduce the risk of injury from a hot component, allow the surface to cool before touching.</p>
--	---

- Warning:** When operating the driving units using the diagnostics or other tools, be sure to keep them covered unless otherwise specified.
- Warning:** When operating the driving units using the diagnostics or other tools, never touch the driving units. When operating the driving units using diagnostics or other tools, be sure to follow the procedures in this manual.
- Warning:** Servicers should wear a wrist band or the like to remove static electricity from their body, grounding their body while working. Go to **“Handling ESD-sensitive parts” on page 4-1.**

Using service checks

To determine the corrective action necessary to repair a printer, look for the following information:

- Verify the installation status. Go to **“Confirm the installation status” on page 2-2.**
- Does POR (Power-on Reset) stop? Check the POR sequence. Go to **“Power-on Reset sequence” on page 2-2.**
- If you get an error code message, go to **“Error code messages” on page 2-11.**
 - For detailed information on specific error codes and error messages, go to **“Service checks” on page 2-36.**
- If you have an attendance message, refer to the *User’s Guide*.
- For additional operator panel information, go to **“Understanding the printer operator panel” on page 2-3.**

Note: There may be printer error messages that are not contained in this service manual. Call your next level of support for assistance.

Confirm the installation status

Be sure to check the following items before starting the troubleshooting procedures.

- With the power cord unplugged from the wall outlet, check that the cord is free from breakage, short-circuit, disconnected wire, or incorrect connection in the power cord.
- The printer is properly grounded. Check the power cord ground terminal.
- The printer is not installed at a place subjected to extreme temperature, extreme humidity or rapid changes in temperature.
- The printer is not installed close to water service, humidifier, heat generating unit, fire, in a very dusty place, or a place exposed to air flow from the air conditioning system.
- The printer is not installed in a place where volatile gas or inflammable gas is generated.
- The printer is not installed in direct sun.
- The printer is installed on a level and stable surface.
- Media meets specifications and is installed properly.
- Customer maintenance parts have been replaced at the specified intervals.
- Check all attached options for proper attachment and electrical connection.
- Refer to the *User's Guide* for proper installation.

Previous



Next



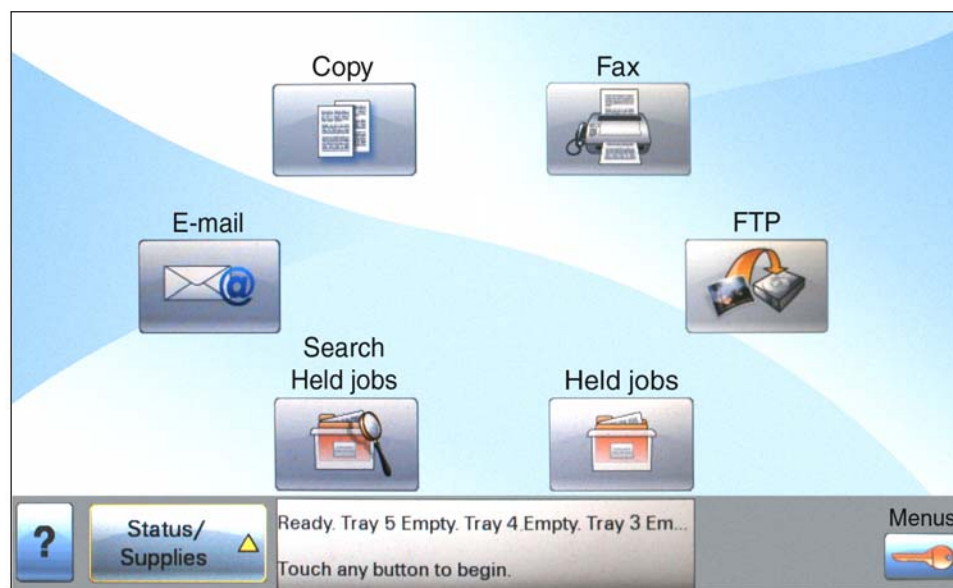
Go Back

Power-on Reset sequence

The following is an example of the events that occur during the POR sequence:

1. Turn the machine on.
2. The Lexmark splash screen appears with a progress bar in the center until the code is loaded.
3. The scanner exposure lamp flashes several times.
4. The fuser cooling fan turns on.
5. The fuser unit assembly lamps turn on.
6. The RIP card assembly cooling fan turns on.
7. Operator panel LED becomes solid.
8. The transport motor turns on.

The following is an example of the screen that appears after the code is loaded.



Understanding the printer operator panel

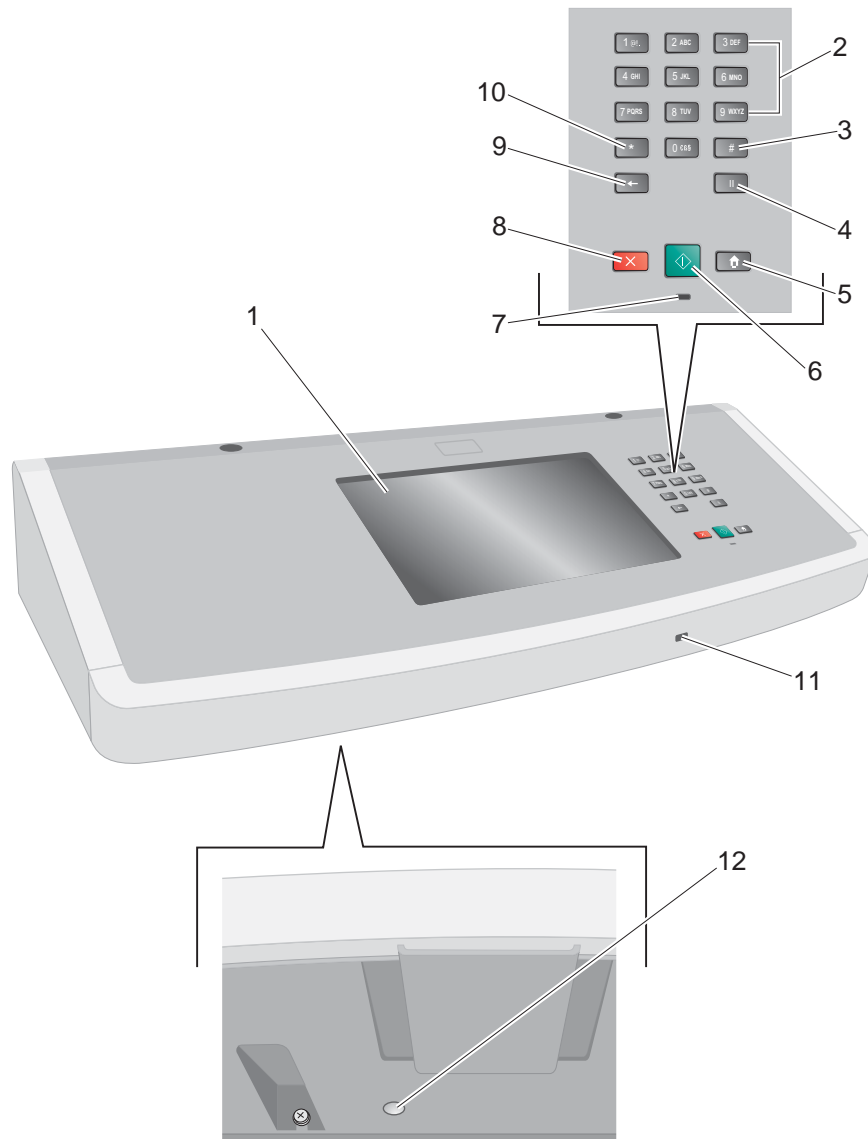
Previous

























Next



Go Back



Item	Function	
1	Display	View scanning, copying, faxing, and printing options as well as status and error messages.
2	Keypad 	Enter numbers, letters, or symbols on the display.

3	Pound or number character 	Press  : <ul style="list-style-type: none"> For a shortcut identifier. Within phone numbers. For a Fax number with a #, enter it twice—##. From the home screen, the Fax Destination List menu item, E-mail Destination List menu item, or Profile List menu item to access shortcuts.
4	Dial Pause 	<ul style="list-style-type: none"> Press  to cause a two- or three-second dial pause in a fax number. In the Fax To field, a Dial Pause is represented by a comma (,). From the home screen, press  to redial a fax number. The button functions only within the Fax menu or with fax functions. When outside of the Fax menu, fax function, or home screen, pressing  causes an error beep.
5	Home 	Press  to return to the home screen.
6	Start 	<ul style="list-style-type: none"> Press  to initiate the current job indicated on the display. From the home screen, press  to start a copy job with the default settings. If pressed while a job is scanning, the button has no effect.
7	Indicator light	<ul style="list-style-type: none"> Off—The power is off. Blinking green—The printer is warming up, processing data, or printing. Solid green—The printer is on, but idle. Blinking red—Operator intervention is needed.
8	Stop 	Stops all printer activity. A list of options is offered once Stopped appears on the display.
9	Back 	<p>In the Copy menu, press  to delete the right-most digit of the value in the Copy Count. The default value of 1 appears if the entire number is deleted by pressing  numerous times.</p> <p>In the Fax Destination List, press  to delete the right-most digit of a number entered manually. You can also press  to delete an entire shortcut entry. Once an entire line is deleted, another press of  causes the cursor to move up one line.</p> <p>In the E-mail Destination List, press  to delete the character to the left of the cursor. If the character is in a shortcut, then the shortcut is deleted.</p>
10	Asterisk 	 is used as part of a fax number or as an alphanumeric character.
11	Front USB port	Insert a USB flash drive to send data to the printer.
12	Standard output bin LED	Provides adequate lighting for viewing printed media.

Previous



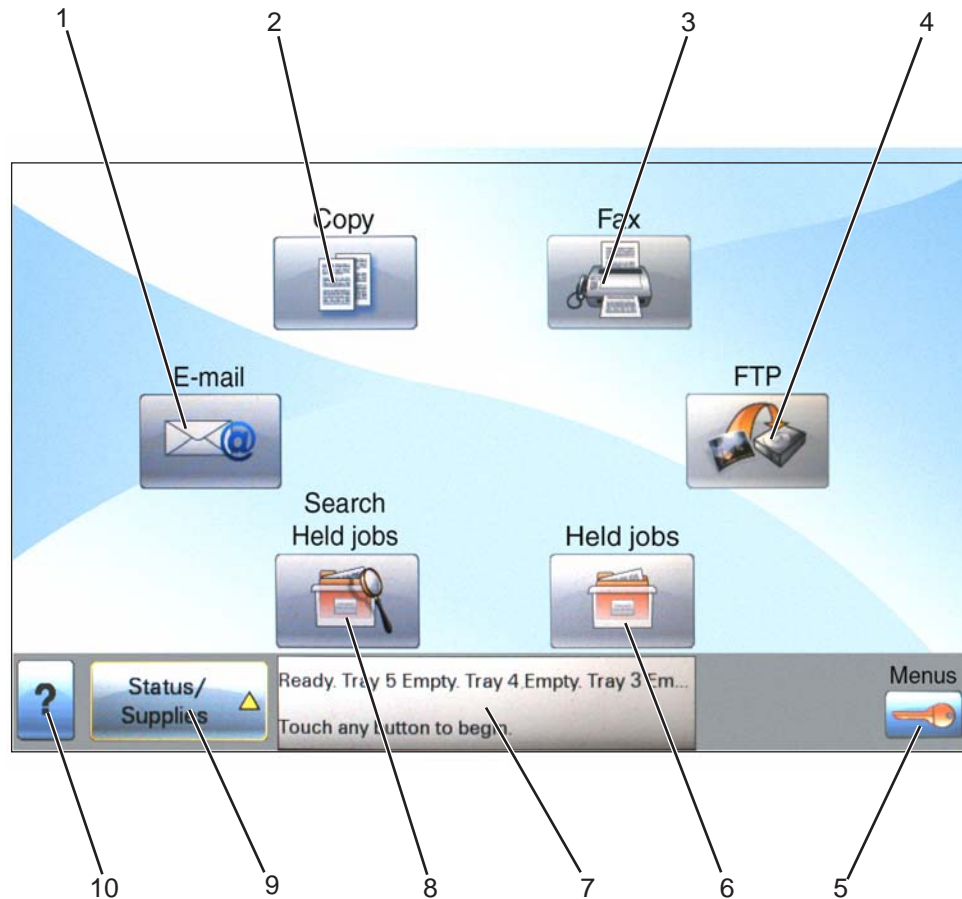
Next





Go Back

Understanding the home screen

After the MFP is turned on and a short warm-up period occurs, the display shows the following basic screen which is referred to as the Home screen. Use the Home screen buttons to initiate an action such as copying, faxing, or scanning; to open the menu screen; or to respond to messages.



Display item		Function
1	E-mail	Opens the E-mail menus
2	Copy	Opens the Copy menus Note: From the home screen, the Copy menus can also be accessed by pressing a number on the keypad.
3	Fax	Opens the Fax menus
4	FTP	Opens the File Transfer Protocol (FTP) menus Note: This function must be set up by your system support person. Once it is set up, it appears as a display item.
5	Menus	Opens the menus. These menus are available only when the printer is in the Ready state.
6	Held Jobs	Opens a screen containing all the held jobs

7	Status message bar	<ul style="list-style-type: none"> • Shows the current MFP status such as Ready or Busy. • Shows MFP conditions such as Toner Low. • Shows intervention messages to give instructions on what the user should do so the MFP can continue processing, such as Close door or Insert print cartridge.
8	Search Held Jobs 	Searches on any of the following items and returns search results: <ul style="list-style-type: none"> • User names for held or confidential print jobs • Job names for held jobs, excluding confidential print jobs • Profile names • Bookmark container or job names • USB container or job names for supported extensions only
9	Status/Supplies	Appears on the display whenever the MFP status includes a message requiring intervention. Touch this button to access the messages screen for more information on the message, including how to clear it.
10		Opens a context-sensitive Help feature within the display touch screens

Previous








Next



Go Back

Other buttons may appear on the home screen

Button	Function
Release Held Faxes 	If this button is shown, then there are held faxes with a schedules hold time previously set. To access the list of held faxes, touch this button.
Held Jobs 	Opens a screen containing all the held jobs
Lock Device 	This button appears on the screen when the printer is unlocked and Device Lockout Personal Identification Number (PIN) has been set. Touching this button opens a PIN entry screen. Entering the correct PIN locks the printer operator panel (touch screen and hard buttons).

<p>Unlock Device</p> 	<p>This button appears on the screen when the printer is locked. The printer operator panel buttons and shortcuts cannot be used while it appears. Touching this button opens a PIN entry screen. Entering the correct PIN unlocks the printer operator panel (touch screen and hard buttons).</p>
<p>Cancel Jobs</p> 	<p>Opens the Cancel Jobs screen. The Cancel Jobs screen shows three headings: Print, Fax, and Network.</p> <p>The following items are available under the Print, Fax, and Network headings:</p> <ul style="list-style-type: none"> • Print job • Copy job • Fax profile • FTP • E-mail send <p>Each heading has a list of jobs shown in a column under it which can show only three jobs per screen. Each job appears as a button which you can touch to access information about the job. If more than three jobs exist in a column, then an arrow appears enabling you to scroll through the jobs.</p>

Previous



Next

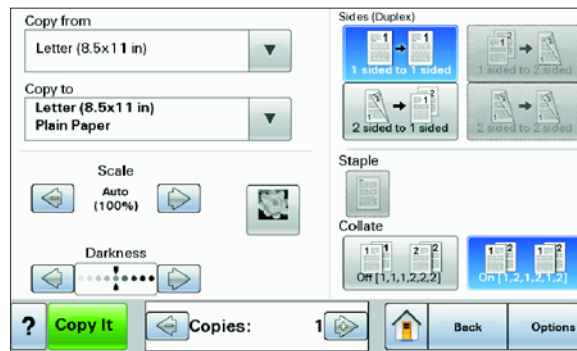


Go Back

Using the touch-screen buttons

Note: Depending on your options and administrative setup, your screens and buttons may vary from those shown.

Sample touch screen








Previous


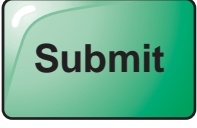
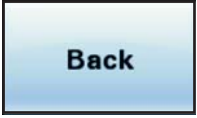


Next



Go Back

Button	Function
Home 	Returns to the home screen
Scroll down 	Opens a drop-down list
Left scroll decrease 	Scrolls to another value in decreasing order
Right scroll increase 	Scrolls to another value in increasing order
Left arrow 	Scrolls left

Button	Function
Right arrow 	Scrolls right
Submit 	Saves a value as the new user default setting
Back 	Navigates back to the previous screen

Previous











Next



Go Back

Other touch-screen buttons

Button	Function
Down arrow 	Moves down to the next screen
Up arrow 	Moves up to the next screen
Unselected radio button 	This is an unselected radio button. The radio button is gray to show it is unselected.
Selected radio button 	This is a selected radio button. The radio button is blue to show it is selected.
Cancel Jobs 	See “Cancel Jobs” on page 2-9.

Button	Function
Continue 	Touch this button when more changes need to be made for a job or after clearing a paper jam.
Cancel 	<ul style="list-style-type: none"> • Cancels an action or a selection • Cancels out of a screen and returns to the previous screen
Select 	Selects a menu or menu item

Previous




Next



Go Back

Features

Feature	Description
Menu trail line: <u>Menus</u> <arrow> ‡ <u>Settings</u> <arrow> ‡ <u>Copy Settings</u> <arrow> ‡ Number of Copies	A Menu trail line is located at the top of each menu screen. This feature acts as a trail, showing the path taken to arrive at the current menu. It gives the exact location within the menus. Touch any of the underlined words to return to that menu or menu item. The Number of Copies is not underlined since this is the current screen. If you touch an underlined word on the Number of Copies screen before the Number of Copies is set and saved, then the selection is not saved, and it does not become the user default setting.
Attendance message alert 	If an attendance message occurs which closes a function, such as copy or fax, then a solid red dot appears over the function button on the home screen. This indicates that an attendance message exists.

Error code messages

Error code or message	Error contents	Description/Action
200.00 Paper jam Check area A	Sensor (registration) off jam (too long)	The sensor (registration) is not turned off within the specified time after the registration clutch is turned on. Go to “200.00 Sensor (registration) off jam (too long)” on page 2-36.
200.01 Paper jam Check area A	Sensor (registration) static jam	Media remains on the sensor (registration). Go to “200.01 Sensor (registration) static on jam” on page 2-37.
201.00 Paper jam Check area A	Sensor (fuser exit) on jam	The sensor (fuser exit) is not turned on within the specified time after the registration clutch is turned on. Go to “201.00 Sensor (fuser exit) on jam” on page 2-38.
202.00 Paper jam Check area A	Sensor (fuser exit) off jam	The sensor (fuser exit) is not turned off within the specified time after the sensor (fuser exit) is turned on. Go to “202.00 Sensor (fuser exit) off jam” on page 2-39.
202.01 Paper jam Check area A	Sensor (fuser exit) off (too short) jam	The sensor (fuser exit) is turned off earlier than the specified time after the sensor (fuser exit) is turned on. Go to “202.01 Sensor (fuser exit) off (too short) jam” on page 2-40.
202.02 Paper jam Check area A	Sensor (fuser exit) static jam	Media remains on the sensor (fuser exit). Go to “202.02 Sensor (fuser exit) static jam” on page 2-41.
203.00 Paper jam Check area A	Sensor (exit 2) on jam	The sensor (exit 2) is not turned on within the specified time after the sensor (fuser exit) is turned on. Go to “203.00 Sensor (exit 2) on jam” on page 2-41.
203.01 Paper jam Check areas A, E	Sensor (exit 2) off jam	The sensor (exit 2) is not turned off within the specified time after the sensor (exit 2) is turned on. Go to “203.01 Sensor (exit 2) off jam” on page 2-43.
203.02 Paper jam Check areas A, E	Sensor (exit 2) is on in the standard bin or simplex finisher	The sensor (exit 2) was turned on when the media is delivered to the exit 1 standard bin or simplex finisher. Go to “203.02 Sensor (exit 2) on jam in standard bin or finisher” on page 2-45.
203.03 Paper jam Check areas A, E	Sensor (exit 2) static jam	Media remains on the sensor (exit2). Go to “203.03 Sensor (exit 2) static jam” on page 2-46.

Previous



Next



Go Back

Error code or message	Error contents	Description/Action
230.00 Paper jam Check areas A, E	Sensor (duplex wait) on jam	The sensor (duplex wait) is not turned on within the specified time after the exit2 motor is turned on. Go to “230.00 Sensor (duplex wait) on jam” on page 2-48.
230.01 Paper jam Check area D	Sensor (duplex wait) static jam	Media remains on the sensor (duplex wait). Go to “230.01 Sensor (duplex wait) static jam” on page 2-50.
231.00 Paper jam Check areas n A, D	Sensor (registration) on jam (duplex paper feed)	Sensor (registration) is not turned on within the specified time after the duplex motor is turned on. Go to “231.00 Sensor (registration) on jam (duplex paper feed)” on page 2-50.
231.01 Paper jam Check areas A, D	Sensor (registration) on jam (duplex paper feed)	Sensor (registration) is not turned on within the specified time after the sensor (duplex wait) is turned on. Go to “231.01 Sensor (registration) on jam (duplex paper feed)” on page 2-52.
241.00 Paper Jam Check area, tray 1	Sensor (pre-feed) on jam (tray 1 feed)	The sensor (pre-feed) tray 1 is not turned on within the specified time after the tray 1 media feed lift motor is turned on. Go to “241.00 Sensor (pre-feed) on jam (tray 1 feed)” on page 2-54.
241.01 Paper jam Check areas A, tray 1	Sensor (registration) on jam (tray 1 feed)	The sensor (registration) is not turned on within the specified time after the sensor (pre-feed) media feed unit 1 is turned on. Go to “241.01 Sensor (registration) on jam (tray 1 feed)” on page 2-55.
242.00 Paper jam Check area tray 2	Sensor (pre-feed) on jam (tray 2 feed)	The sensor (pre-feed) tray 2 is not turned on within the specified time after the tray 2 media feed lift motor is turned on. Go to “242.00 Sensor (pre-feed) on jam (tray 2 feed)” on page 2-56.
242.01 Paper jam Check area B, tray 2	Sensor (tray 2 feed-out) on jam (tray 2 feed)	The sensor (tray 2 feed-out) is not turned on within the specified time after the sensor (pre-feed) media feed unit 2 is turned on. Go to “242.01 Sensor (tray 2 feed-out) on jam (tray 2 feed)” on page 2-58.
242.02 Paper jam Check area B	Sensor (registration) on jam (tray 2 feed)	The sensor (registration) is not turned on within the specified time after the sensor (tray 2 feed-out) is turned on. Go to “242.02 Sensor (registration) on jam (tray 2 feed)” on page 2-60.
242.03 Paper jam Check area B	Sensor (tray 2 feed-out) static jam	Media remains on the sensor (tray 2 feed-out). Go to “242.03 Sensor (tray 2 feed-out) static jam” on page 2-62.



Error code or message	Error contents	Description/Action
243.00 Paper jam Check area tray 3	Sensor (pre-feed) on jam (tray 3 media feed)	The sensor (pre-feed) is not turned on within the specified time after the tray 3 feed lift motor is turned on. TTM equipped machines, go to “243.00 Sensor (pre-feed) on jam (tray 3 media feed)” on page 2-62. 2TM equipped machines, refer to the <i>Options Service Manual</i> .
243.01 Paper jam Check areas C, tray 3	Sensor (tray 3 feed-out) on jam (tray 3 media feed)	The sensor (tray 3 feed-out) is not turned on within the specified time after the pre-feed sensor3 is on. TTM equipped machines, go to “243.01 Sensor (tray 3 feed-out) on jam (tray 3 media feed)” on page 2-64. 2TM equipped machines, refer to the <i>Options Service Manual</i> .
243.02 Paper jam Check areas A, B	Sensor (tray 2 feed-out) on jam (tray 3 media feed)	The sensor (tray 2 feed-out) is not turned on within the specified time after the sensor (tray 3 feed-out) is turned on. TTM equipped machines, go to “243.02 Sensor (tray 2 feed-out) on jam (tray 3 media feed)” on page 2-66. 2TM equipped machines, refer to the <i>Options Service Manual</i> .
243.03 Paper jam Check area B	Sensor (registration) on jam (tray 3 media feed)	The sensor (registration) is not turned on within the specified time after the sensor (tray 3 feed-out) is turned on. TTM equipped machines, go to “243.03 Sensor (registration) on jam (tray 3 media feed)” on page 2-67. 2TM equipped machines, refer to the <i>Options Service Manual</i> .
243.04 Paper jam Check area C	Sensor (tray 3 feed-out) static jam	Media remains on the sensor (tray 3 feed-out). TTM equipped machines, go to “243.04 Sensor (tray 3 feed-out) static jam” on page 2-69. 2TM equipped machines, refer to the <i>Options Service Manual</i> .
244.00 Paper jam Check areas C, tray 4	Sensor (tray 4 feed-out) on jam (tray 4 media feed)	The sensor (tray 4 feed-out) is not turned on within the specified time after the sensor (pre-feed) is turned on. TTM equipped machines, go to “244.00 Sensor (tray 4 feed-out) on jam (tray 4 media feed)” on page 2-70. 2TM equipped machines, refer to the <i>Options Service Manual</i> .
244.01 Paper jam Check areas C, tray 4	Sensor (tray 3 feed-out) on jam (tray 4 media feed)	The sensor (tray 3 feed-out) is not turned on within the specified time after the sensor (tray 4 feed-out) is turned on. TTM equipped machines, go to “244.01 Sensor (tray 3 feed-out) on jam (tray 4 media feed)” on page 2-73. 2TM equipped machines, refer to the <i>Options Service Manual</i> .

Previous



Next



Go Back

Error code or message	Error contents	Description/Action
244.02 Paper jam Check areas B, C	Sensor (tray 2 feed-out) on jam (tray 4 media feed)	The sensor (tray 2 feed-out) is not turned on within the specified time after the sensor (tray 4 feed-out) is turned on. TTM equipped machines, go to “244.02 Sensor (tray 2 feed-out) on jam (tray 4 media feed)” on page 2-75. 2TM equipped machines, refer to the <i>Options Service Manual</i> .
244.03 Paper jam Check area B	Sensor (registration) on jam (tray 4 media feed)	The sensor (registration) is not turned on within the specified time after the sensor (tray 4 feed-out) is turned on. TTM equipped machines, go to “244.03 Sensor (registration) on jam (tray 4 media feed)” on page 2-77. 2TM equipped machines, refer to the <i>Options Service Manual</i> .
244.04 Paper jam Check area tray 4	Sensor (pre-feed) on jam (tray 4 media feed)	The sensor (pre-feed) is not turned on within the specified time after the tray 4 feed lift motor is turned on. TTM equipped machines, go to “244.04 Sensor (pre-feed) on jam (tray 4 media feed)” on page 2-78. 2TM equipped machines, refer to the <i>Options Service Manual</i> .
244.05 Paper jam Check areas C, tray 4	Sensor (tray 4 feed-out) static jam	Media remains on the sensor (tray 4 feed-out). TTM equipped machines, go to “244.05 Sensor (tray 4 feed-out) static jam” on page 2-80. 2TM equipped machines, refer to the <i>Options Service Manual</i> .
245.00 Paper jam Check area K, tray 5	Sensor (tray 5 pre-feed) on jam	The sensor (tray 5 pre-feed) is not turned on with in the specified time after the HCF feed lift motor is turned on. Refer to the <i>Options Service Manual</i> .
245.01 Paper jam Check area K	Sensor (tray 2 feed-out) on jam	The sensor (tray 2 feed-out) on the printer is not turned on within the specified time after the HCF feed lift motor is turned on. Refer to the <i>Options Service Manual</i> .
245.02 Paper jam Check area B	Sensor (registration) on jam	The sensor (registration) on the printer is not turned on within the specified time after the HCF feed lift motor is turned on. Refer to the <i>Options Service Manual</i> .
245.03 Paper jam Check area K	Sensor (tray 5 feed-out) static jam	Paper remains on the sensor (tray 5 feed-out). Refer to the <i>Options Service Manual</i> .
250.00 Paper jam Check areas A, MPF	Sensor (registration) on jam (MPF pick)	The sensor (registration) is not turned on within the specified time after the MPF pick solenoid is turned on. Go to “250.00 Sensor (registration) on jam (MPF pick)” on page 2-81.

Previous



Next



Go Back

Error code or message	Error contents	Description/Action
280.00 Paper jam Check areas A	Sensor (bridge unit media entrance) on jam	Sensor (bridge unit media entrance) is not turned on within the specified time after the sensor (fuser exit) in the printer is turned on. Refer to the <i>Options Service Manual</i> .
280.01 Paper jam Check area A	Sensor (bridge unit media entrance) static jam A	Paper remains on the sensor (bridge unit media entrance). Refer to the <i>Options Service Manual</i> .
280.02 Paper jam Check area F	Sensor (bridge unit media entrance) static jam B	Paper remains on the sensor (bridge unit media entrance). Refer to the <i>Options Service Manual</i> .
281.00 Paper jam Check area A	Sensor (bridge unit media exit) on jam A	Sensor (bridge unit media exit) is not turned on within the specified time after the sensor (bridge unit media entrance) is turned on. At this time, the sensor (fuser exit) in the printer is in the on state. Refer to the <i>Options Service Manual</i> .
281.01 Paper jam Check area F	Sensor (bridge unit media exit) on jam B	Sensor (bridge unit media exit) is not turned on within the specified time after the sensor (bridge unit media entrance) is turned on. At this time, the sensor (bridge unit media entrance) is in the on state. Refer to the <i>Options Service Manual</i> .
281.02 Paper jam Check area F	Sensor (bridge unit media exit) on jam C	Sensor (bridge unit media exit) is not turned on within the specified time after the sensor (bridge unit media entrance) is turned on. Refer to the <i>Options Service Manual</i> .
281.03 Paper jam Check area F	Sensor (bridge unit media exit) static jam A	Paper remains on the sensor (bridge unit media exit). Refer to the <i>Options Service Manual</i> .
282.00 Paper jam Check area F	Sensor (finisher media entrance) on jam	Sensor (finisher media entrance) is not turned on with the specified time after the sensor (bridge unit media exit) is turned on. Refer to the <i>Options Service Manual</i> .
282.01 Paper jam Check areas F	Sensor (finisher media entrance) static jam A	Paper remains on the sensor (finisher media entrance). At this time, the sensor (bridge unit media exit) is turned on. Refer to the <i>Options Service Manual</i> .
283.00 Paper jam Check areas G, G4	Sensor (buffer path) on jam A	Sensor (buffer path) is not turned on within the specified time after the sensor (finisher media entrance) is turned on. Refer to the <i>Options Service Manual</i> .

Previous



Next



Go Back

Error code or message	Error contents	Description/Action
283.01 Paper jam Check area G2	Sensor (buffer path) on jam B	Sensor (buffer path) is not turned on within the specified time after the sensor (finisher media entrance) is turned on. At this time, the sensor (diverter gate) is turned on. Refer to the <i>Options Service Manual</i> .
283.02 Paper jam Check areas G2, G3	Sensor (buffer path) static jam A	Paper remains on the sensor (finisher buffer path). At this time, both sensor (diverter gate) and sensor (finisher media exit) are on state. Refer to the <i>Options Service Manual</i> .
283.03 Paper jam Check areas G2	Sensor (buffer path) static jam B	Paper remains on the sensor (finisher buffer path). At this time, the sensor (diverter gate) is on state but the sensor (finisher media entrance) is turned off. Refer to the <i>Options Service Manual</i> .
283.04 Paper jam Check areas G4	Sensor (buffer path) static jam C	Paper remains on the sensor (finisher buffer path). At this time, the sensor (diverter gate) is turned off. Refer to the <i>Options Service Manual</i> .
284.00 Paper jam Check area F	Sensor (lower media exit) off jam A	Sensor (lower media exit) is not turned off within the specified time after the finisher sensor (lower media exit) is turned on. At this time, the sensor (bridge unit media exit) is turned off. Refer to the <i>Options Service Manual</i> .
284.01 Paper jam Check area F	Sensor (lower media exit) on jam A	Sensor (buffer path) is not turned on within the specified time after the sensor (finisher media entrance) is turned on. At this time the sensor (bridge unit media exit) is turned on. Refer to the <i>Options Service Manual</i> .
284.02 Paper jam Check areas G2, G3	Sensor (lower media exit) on jam B	Sensor (buffer path) is not turned on within the specified time after the sensor (bridge unit media entrance) is turned on. At this time, the sensor (finisher media entrance) is turned on. Refer to the <i>Options Service Manual</i> .
284.03 Paper jam Check area G2	Sensor (lower media exit) on jam C	Finisher sensor (lower media exit) not turned on within the specified time after the sensor (buffer path) is turned on. Refer to the <i>Options Service Manual</i> .
284.04 Paper jam Check area H	Sensor (lower media exit) off jam B	Finisher sensor (lower media exit) not turned off within the specified time after the finisher sensor (lower media exit) on. At this time, the sensor (finisher media entrance) is turned on. Refer to the <i>Options Service Manual</i> .

Previous



Next



Go Back

Error code or message	Error contents	Description/Action
284.05 Paper jam Check area H	Sensor (lower media exit) static jam	Paper remains on the sensor (lower media exit). Refer to the <i>Options Service Manual</i> .
285.00 Paper jam Check area H	Finisher set eject jam	Finisher sensor (compiler media in) is not turned on within the specified time after the media eject motor is turned on. Refer to the <i>Options Service Manual</i> .
286.00 Paper jam Check area H	Sensor (compiler media in) static jam	Paper remains on the sensor (compiler media in). Refer to the <i>Options Service Manual</i> .
287.00 Paper jam Check area F	Sensor (upper media exit) on jam A	Sensor (upper media exit) is not turned on within the specified time after the sensor (finisher media entrance) is turned on. At this time, the sensor (bridge unit media exit) is turned on. Refer to the <i>Options Service Manual</i> .
287.01 Paper jam Check area F	Sensor (upper media exit) off jam A	Sensor (upper media exit) is not turned off within the specified time after the sensor (upper media exit) is turned on. At this time, the sensor (bridge unit media exit) is turned on. Refer to the <i>Options Service Manual</i> .
287.02 Paper jam Check areas G1, G3	Sensor (upper media exit) on jam B	Sensor (upper media exit) is not turned on within the specified time after the sensor (finisher media entrance) is turned on. At this time, the sensor (bridge unit media exit) is on state Refer to the <i>Options Service Manual</i> .
287.03 Paper jam Check area G1	Sensor (upper media exit) on jam C	Sensor (upper media exit) is not turned on within the specified time after the sensor (finisher media entrance) is turned on. At this time, the sensor (bridge unit media exit) is turned on. Refer to the <i>Options Service Manual</i> .
287.04 Paper jam Check area G	Sensor (upper media exit) off jam B	Sensor (upper media exit) is not turned off within the specified time after the sensor (upper media exit) is turned off. At this time, the sensor (bridge unit media exit) is turned off. Refer to the <i>Options Service Manual</i> .
287.05 Paper jam Check area F	Sensor (upper media exit) static jam A	Paper remains on the sensor (upper media exit). At this time, the sensor (bridge unit media exit) is turned on. Refer to the <i>Options Service Manual</i> .

Previous



Next



Go Back

Error code or message	Error contents	Description/Action
287.06 Paper jam Check areas G1, G3	Sensor (upper media exit) static jam B	Paper remains on the sensor (upper media exit). At this time, the sensor (bridge unit media exit) is off state but the finisher sensor (finisher media entrance) is turned on. Refer to the <i>Options Service Manual</i> .
287.07 Paper jam Check area G1	Sensor (upper media exit) static jam C	Paper remains on the sensor (upper media exit). At this time, both sensor (bridge unit media exit) and sensor (finisher media entrance) are turned off. Refer to the <i>Options Service Manual</i> .
288.00 Paper jam Check area F	Sensor (diverter gate) on jam	Sensor (diverter gate) is not turned on within the specified time after the sensor (bridge unit media exit) is turned on. Refer to the <i>Options Service Manual</i> .
288.01 Paper jam Check area F	Sensor (diverter gate) static jam (to top bin) A	Paper remains on the sensor (diverter gate) when the finisher is in the upper bin exit mode. At this time the sensor (bridge unit media exit) is turned on. Refer to the <i>Options Service Manual</i> .
288.02 Paper jam Check areas G2, G3	Sensor (diverter gate) static jam (to top bin) B	Paper remains on the sensor (diverter gate) when the finisher is in the upper bin exit mode. At this time, the sensor (finisher media entrance) is turned on, but the sensor (bridge unit media exit) is turned off. Refer to the <i>Options Service Manual</i> .
288.03 Paper jam Check area G1	Sensor (diverter gate) static jam (to top bin) C	Paper remains on the sensor (diverter gate) when the finisher is in the upper bin exit mode. At this time, both sensor (finisher media entrance) and sensor (bridge unit media exit) are turned off. Refer to the <i>Options Service Manual</i> .
288.04 Paper jam Check area F	Sensor (diverter gate) static jam (to stacker bin) A	Paper remains on the sensor (diverter gate) when the finisher is in the stacker bin exit mode. At this time, the sensor (bridge unit media exit) is turned on. Refer to the <i>Options Service Manual</i> .
288.05 Paper jam Check areas G2, G3	Sensor (diverter gate) static jam (to stacker bin) B	Paper remains on the sensor (diverter gate) when the finisher is in the stacker bin exit mode. At this time, the sensor (finisher media entrance) is turned on, but the sensor (bridge unit media exit) is turned off. Refer to the <i>Options Service Manual</i> .
288.06 Paper jam Check area G2	Sensor (diverter gate) static jam (to stacker bin) C	Paper remains on the sensor (diverter gate) when the finisher is in the stacker bin exit mode. At this time, both sensor (finisher media entrance) and sensor (bridge unit media exit) are turned off. Refer to the <i>Options Service Manual</i> .

Previous



Next



Go Back

Error code or message	Error contents	Description/Action
290.00 Scanner jam Remove all originals from the scanner.	Switch (sheet through) static jam	The system detected that the sensor (sheet through) is on. Go to “290.00 Switch (sheet through) static jam” on page 2-83.
290.01 Scanner jam Remove all originals from the scanner.	Sensor (sheet through) on jam	After the first feed operation started, the feed drive motor turned on (CW) in Duplex mode, the sensor (sheet through) did not turn on within the specified time. Go to “290.01 Sensor (sheet through) on jam” on page 2-83.
290.02 Scanner jam Remove all originals from the scanner.	Sensor (ADF pre-registration) on jam ADF simplex side 1	After the Pre Feed operation started for the first sheet, the feed drive motor turned on (CW) in Duplex or Simplex mode, the sensor (ADF pre-registration) did not turn on within the specified time. After the Pre Feed operation started for the second sheet, the feed drive motor turned on (CW) in Duplex mode, the sensor (ADF pre-registration) did not turn on within the specified time. Go to “290.02 Sensor (ADF pre-registration) on jam ADF simplex side 1” on page 2-86.
290.03 Scanner jam Remove all originals from the scanner.	Sensor (ADF pre-registration) off jam	After the sensor (sheet through) turned off in simplex mode, the sensor (ADF pre-registration) did not turn off within the specified time. After the ADF registration motor turned on in duplex mode, the sensor (ADF pre-registration) did not turn off within the specified time. Go to “290.03 Sensor (ADF pre-registration) off jam” on page 2-88.
290.10 Scanner jam Remove all originals from the scanner.	Sensor (ADF pre-registration) static jam	The system detected that the sensor (ADF pre-registration) is on. Go to “290.10 Sensor (ADF pre-registration) static jam” on page 2-90.
290.11 Scanner jam Remove all originals from the scanner.	Sensor (ADF registration) on jam ADF simplex side 1	After pre-registration started, the feed drive motor turned on (CCW), the sensor (ADF registration) did not turn on within the specified time. Go to “290.11 Sensor (ADF registration) on jam ADF simplex side 1” on page 2-91.
290.12 Scanner jam Remove all originals from the scanner.	Sensor (ADF registration) on jam side 2	After the sensor (ADF pre-registration) turned on at Invert, the sensor (ADF registration) did not turn on within the specified time. Go to “290.12 Sensor (ADF registration) on jam side 2” on page 2-93.
290.13 Scanner jam Remove all originals from the scanner.	Sensor (ADF registration) off jam	After the sensor (ADF pre-registration) turned off during the Read operation, the sensor (ADF registration) did not turn off within the specified time. Go to “290.13 Sensor (ADF registration) off jam” on page 2-95.

Previous



Next



Go Back

Error code or message	Error contents	Description/Action
290.14 Scanner jam Remove all originals from the scanner.	Sensor (ADF inverter) on jam (Inverting)	After the sensor (ADF registration) turned on during the Invert operation, the sensor (ADF inverter) did not turn on within the specified time. Go to “290.14 Sensor (ADF inverter) on jam (Inverting)” on page 2-97.
290.15 Scanner jam Remove all originals from the scanner.	Sensor (ADF registration) off jam (inverting)	After the sensor (ADF pre-registration) turned off at Invert, the sensor (ADF registration) did not turn off within the specified time. Go to “290.15 Sensor (ADF registration) off jam (inverting)” on page 2-99.
290.21 Scanner jam Remove all originals from the scanner.	Sensor (ADF width APS 1) static jam	The system detected that the sensor (ADF width APS 1) is on. Go to “290.21 Sensor (ADF width APS 1) static jam” on page 2-102.
290.22 Scanner jam Remove all originals from the scanner.	Sensor (ADF width APS 2) static jam	The system detected that the sensor (ADF width APS 2) is on. Go to “290.22 Sensor (ADF width APS 2) static jam” on page 2-103.
290.23 Scanner jam Remove all originals from the scanner.	Sensor (ADF width APS 3) static jam	The system detected that the sensor (ADF width APS 3) is on. Go to “290.23 Sensor (ADF width APS 3) static jam” on page 2-104.
291.00 Scanner jam Remove all originals from the scanner.	Sensor (ADF registration) static jam	The system detected that the sensor (ADF registration) is on. Go to “291.00 Sensor (ADF registration) static jam” on page 2-104.
291.01 Scanner jam Remove all originals from the scanner.	Sensor (ADF inverter) off jam (Inverting)	After the sensor (ADF registration) turned off during the Invert operation of the last document, the sensor (ADF inverter) did not turn off within the specified time. After the ADF registration motor turned on (CCW) during Invert operation, the sensor (ADF inverter) did not turn off within the specified time. Go to “291.01 Sensor (ADF inverter) off jam (inverting)” on page 2-105.
291.02 Scanner jam Remove all originals from the scanner.	Sensor (ADF inverter) on jam 2	After the Read Speed Control operation started, the ADF registration motor turned on (CCW), the sensor (ADF inverter) did not turn on within the specified time. Go to “291.02 Sensor (ADF inverter) on jam 2” on page 2-107.

Previous



Next



Go Back

Error code or message	Error contents	Description/Action
291.03 Scanner jam Remove all originals from the scanner.	Sensor (ADF inverter) off jam	<p>After the sensor (ADF registration) turned off during the Read operation of the last document, the sensor (ADF inverter) did not turn off within the specified time. (Simplex mode)</p> <p>After the ADF registration motor turned on (CCW) during the Read operation, the sensor (ADF inverter) did not turn off within the specified time. (Simplex mode)</p> <p>After the sensor (ADF registration) turned off during the Read operation, the sensor (ADF inverter) did not turn off within the specified time. (Duplex mode)</p> <p>Go to “291.03 Sensor (ADF inverter) off jam” on page 2-109.</p>
294.00 Scanner jam Remove all originals from the scanner.	Sensor (ADF inverter) static jam	<p>The system detected that the sensor (ADF inverter) is on.</p> <p>Go to “294.00 Sensor (ADF inverter) static jam” on page 2-112.</p>
294.01 Scanner jam Remove all originals from the scanner.	Sensor (ADF pre-registration) on jam side 2	<p>After the Invert operation started, the ADF registration motor turned on (CW)) at Invert, the sensor (ADF pre-registration) did not turn on within the specified time.</p> <p>Go to “294.01 Sensor (ADF pre-registration) on jam side 2” on page 2-113.</p>
294.02 Scanner jam Remove all originals from the scanner.	Sensor (ADF pre-registration) off jam on inverting	<p>After the ADF registration motor turned on at Invert, the sensor (ADF pre-registration) did not turn off within the specified time.</p> <p>Go to “294.02 Sensor (ADF pre-registration) off jam on inverting” on page 2-115.</p>
295.00 Scanner jam Remove all originals from the scanner.	Size mismatch Jam (Mix-size)	<p>In Mixed Size Originals, it was detected that the Fast Scan Direction size was different from the width of the document guide.</p> <p>Go to “295.00 Size mismatch jam (mix-size)” on page 2-117.</p>
295.01 Scanner jam Remove all originals from the scanner.	Size mismatch Jam (No Mix-size)	<p>The second and subsequent documents are different size from the first document.</p> <p>Go to “295.01 Size mismatch jam (no mix-size)” on page 2-119.</p>
295.02 Scanner jam Remove all originals from the scanner.	Invalid Combine Size Jam	<p>An invalid document size combination was detected.</p> <p>Go to “295.02 Invalid combine size jam” on page 2-120.</p>
295.03 Scanner jam Remove all originals from the scanner.	Too Short Size Jam	<p>The system detected a document with a length shorter than 115mm in the Slow Scan Direction.</p> <p>Go to “295.03 Too short size jam” on page 2-121.</p>

Previous



Next



Go Back

Error code or message	Error contents	Description/Action
295.04 Scanner jam Remove all originals from the scanner.	Too Long Size Jam	The system detected a document with the following length in the Slow Scan Direction: <ul style="list-style-type: none"> • Simplex mode: 672.4mm or longer • Duplex mode: 480.1mm or longer Go to “295.04 Too long size jam” on page 2-123.
298.01	Scanner power cable missing or unplugged	The scanner is not receiving input power. Go to “298.01 Scanner cable missing or unplugged” on page 2-124.
32 Unsupported toner cartridge	Toner cartridge RFID failure	A toner cartridge of an incorrect specification is installed. Go to “Toner cartridge RFID failure” on page 2-191.
34 Incorrect media, check tray 1 guides.	Tray 1 media size mismatch in length	The media length detected by the sensor (registration) after the media is fed from media tray 1 does not match the length detected by media tray 1 switch (media size). Go to “Tray 1 media size mismatch in length” on page 2-193.
34 Incorrect media, check tray 2 guides	Tray 2 media size mismatch in length	The media length detected by the sensor (registration) after the media is fed from media tray 2 does not match the length detected by media tray 2 switch (media size). Go to “Tray 2 media size mismatch in length” on page 2-195.
34 Incorrect media, check tray 3 guides	Tray 3 media size mismatch in length	Go to “Tray 3 media size mismatch in length” on page 2-199.
34 Incorrect media, check tray 4 guides	Tray 4 media size mismatch in length	Go to “Tray 4 media size mismatch in length” on page 2-201.
80 Scheduled maintenance	Scheduled maintenance required	Service is required to maintain printer performance. Go to “Scheduled maintenance required” on page 2-185.
84 Insert PC unit	PC cartridge set failure	The PC cartridge is not installed, or is not installed properly. Go to “PC cartridge set failure” on page 2-182.
84 PC unit abnormal	PC cartridge RFID failure	A PC cartridge of a incorrect specification is installed. Go to “PC cartridge RFID failure” on page 2-182.
84 Replace PC unit	PC cartridge end of life	The PC cartridge needs to be replaced. Go to “PC cartridge end of life” on page 2-181.

Previous



Next



Go Back

Error code or message	Error contents	Description/Action
841.00 Service image pipeline	Image pipeline ASIC failure	The image pipeline for processing the data that comes from the scanner, prior to being printed, has failed. Go to “841.00 Image pipeline ASIC failure” on page 2-124.
842.00 Service scanner failure	Scanner communication failure	Controller detected a communication failure. Communication timeout. Go to “842.00 Scanner communication failure” on page 2-125.
842.01 Service scanner failure	Scanner communication failure	Controller detected a communication failure packet timeout. Go to “842.01 Scanner communication failure” on page 2-125.
842.02 Service scanner failure	Scanner communication failure	Controller detected a communication failure. Invalid message checksum. Go to “842.02 Scanner communication failure” on page 2-126.
842.03 Service scanner failure	Scanner communication failure	Controller detected a communication failure. Invalid message parameter(s). Go to “842.03 Scanner communication failure” on page 2-127.
842.04 Service scanner failure	Scanner communication failure	Controller detected a communication failure. Invalid message command. Go to “842.04 Scanner communication failure” on page 2-127.
842.10 Service scanner failure	Scanner unit assembly - ADF communication failure	Communication failure occurred between the scanner controller card assembly and the ADF controller card assembly. Go to “842.10 Scanner unit assembly - ADF communication failure” on page 2-128.
842.11 Service scanner failure	Scanner communication failure (by scanner)	Communication failure occurred between the scanner controller card assembly and the RIP card assembly. Go to “842.11 Scanner communication failure (by scanner)” on page 2-128.
842.12 Service scanner failure	Scanner unit assembly communication failure	Communication failure occurred between the scanner controller card assembly and the RIP card assembly. Go to “842.12 Scanner unit assembly communication failure” on page 2-129.
843.00 Service scanner failure	Sensor (scanner HP) failure	An failure occurred while counting the pulses of the scanner drive motor assembly. After the Carriage Motor turned on, the sensor (scanner HP) did not turn on within the specified time. Go to “843.00 Sensor (scanner HP) failure” on page 2-130.

Previous



Next



Go Back

Error code or message	Error contents	Description/Action
843.01 Service scanner failure	Scanner carriage over run failure	The scanner carriage has over run. Go to “843.01 Scanner carriage over run failure” on page 2-131.
843.10 Service scanner failure	ADF RAM test failure	The ADF controller card assembly RAM has failed in the read/write operation. (It checks at the time of power on) Go to “843.10 ADF RAM test failure” on page 2-131.
843.11 Service scanner failure	ADF EEPROM failure	The ADF-EEPROM failed during the read/write operation. Go to “843.11 ADF EEPROM failure” on page 2-131.
843.12 Service scanner failure	ADF pick roll position lift up failure	After the pick roll position motor assembly started reverse rotation, the sensor (pick roll position HP) did not turn on within the specified time. After the pick roll position motor assembly started normal rotation, the sensor (pick roll position HP) did not turn off within the specified time. Go to “843.12 ADF pick roll position lift up failure” on page 2-132.
843.20 Service scanner failure	Scanner unit assembly connection failure	There is an open circuit in the scanner interface cable assembly between the scanner controller card assembly and the RIP card assembly. Go to “843.20 Scanner unit assembly connection failure” on page 2-133
843.21 Service scanner failure	Scanner unit assembly EEPROM failure	The scanner unit assembly EEPROM failed during the read/write operation. Go to “843.21 Scanner unit assembly EEPROM failure” on page 2-133.
843.22 Service scanner failure	Scanner unit assembly EEPROM sub system failure	The scanner unit assembly EEPROM failed during the read/write operation. Go to “843.22 Scanner unit assembly EEPROM sub system failure” on page 2-134.
843.23 Service scanner failure	Scanner cooling fan failure	The scanner cooling fan has failed. Go to “843.23 Scanner cooling fan failure” on page 2-134.
843.24 Service scanner failure	Image processing failure	An failure occurred in the image-processing system. Go to “843.24 Image processing failure” on page 2-135.
843.25 Service scanner failure	Scanner controller card assembly failure 1	An internal processing failure occurred in the scanner controller card assembly. Go to “843.25 Scanner controller card assembly failure 1” on page 2-135.

Previous



Next



Go Back

Error code or message	Error contents	Description/Action
843.26 Service scanner failure	Scanner controller card assembly failure 2	An internal processing failure occurred in the scanner controller card assembly. Go to “843.26 Scanner controller card assembly failure 2” on page 2-136.
844.00 Service scanner failure	Exposure lamp failure	A failure has occurred with the exposure lamp. Go to “844.00 Exposure lamp failure” on page 2-136.
844.01 Service scanner failure	White reference/exposure lamp illumination failure	The large platen glass is not properly installed or missing. The white reference initialization of the scanner unit assembly has failed after a POR or the amount of light from the exposure lamp is inadequate at the start of the scan. Go to “844.01 White reference/exposure lamp illumination failure” on page 2-137.
845.00 Service scanner failure	CCD failure	A failure has occurred with the CCD sensor assembly. Go to “845.00 CCD failure” on page 2-139.
845.01 Service scanner failure	CCD initialization (lamp on) failure	The CCD does not make a correct output when it receives a specified amount of light. Go to “845.01 CCD initialization (lamp on) failure” on page 2-139.
845.02 Service scanner failure	CCD initialization (lamp off) failure	The CCD does not make a correct output when light is absent. Go to “845.02 CCD initialization (lamp off) failure” on page 2-140.
846.00 Service scanner failure	Scanner communication failure	Controller detected failures. Scanner download timeout. Go to “846.00 Scanner communication failure” on page 2-140.
846.01 Service scanner failure	Scanner communication failure	Controller detected failures. Detected I/O failure. Go to “846.01 Scanner communication failure” on page 2-141.
846.10 Service scanner failure	Sensor (ADF width APS X) failure	The combinations of outputs from the sensor (ADF width APS 1), sensor (ADF width APS 2) and sensor (ADF width APS 3) are abnormal. Go to “846.10 Sensor (ADF width APS X) failure” on page 2-141.
846.12 Service scanner failure	Scanner unit assembly software logic failure	A software failure was detected by the scanner controller card assembly. Go to “846.12 Scanner unit assembly software logic failure” on page 2-143.
846.13 Service scanner error	Switch (platen interlock) open	The system detected that the switch (platen interlock) is open. Go to “846.13 Switch (platen interlock) open” on page 2-143.

Previous



Next



Go Back

Error code or message	Error contents	Description/Action
849.00 Service hard drive	Hard drive/configuration ID mismatch	The device does not have a hard drive installed, even though its configuration ID indicates that a hard drive should be present. Go to “849.00 Hard drive failure” on page 2-144.
84 PC unit life warning	PC cartridge life near end	The PC cartridge needs to be replaced soon. Go to “PC cartridge end of life” on page 2-181.
88 Toner low	Toner cartridge near empty	The toner cartridge needs to be replaced soon. Go to “Toner cartridge near empty” on page 2-190.
88 Replace toner	Toner cartridge empty	All toner in the toner cartridge is consumed, or toner supply is clogged. Go to “Toner cartridge empty” on page 2-188.
900.XX Service RIP software	System software error	A failure has occurred in the RIP card assembly software. Go to “900.xx System software error” on page 2-145.
903.00 Service engine error	RAM read/write check failure	Read/write of RAM on the printer engine card assembly failed. Go to “903.00 RAM read/write check failure” on page 2-147.
904.00 Service engine error	NVM data failure	A data error of NVM on the printer engine card assembly occurred. Go to “904.00 NVM data failure” on page 2-148.
905.00 Service engine error	NVM read/write cannot be executed failure	Read/write of the NVM on the printer engine card assembly failed. Go to “905.00 NVM read/write cannot be executed failure” on page 2-148.
906.00 Service engine error	CPU power to access NVM failure	An internal process for data write of the NMVM on the printer engine card assembly failed. Go to “906.00 CPU power to access NVM failure” on page 2-149.
907.00 Service engine error	RFID ASIC failure	The RFID control circuit failed. Go to “907.00 RFID ASIC failure” on page 2-149.
908.00 Service engine error	PPM data failure	An incorrect NVM data is saved on the PPM. Go to “908.00 PPM data failure” on page 2-150.
909.00 Service zero cross	Zero cross failure	The zero cross engine has failed. Go to “909.00 Zero cross failure” on page 2-150.
910.00 Service motor error	Transport motor stop failure	Due to the malfunction in the control system of the printer engine card assembly, the transport motor does not stop when media is not transported. Go to “910.00 Transport motor stop failure” on page 2-150.



Error code or message	Error contents	Description/Action
911.00 Service motor error	Transport motor failure	The transport motor does not rotate at the specified speed. Go to “911.00 Transport motor failure” on page 2-151.
912.00 Service motor error	PC cartridge unit motor failure	The PC cartridge motor does not rotate at the specified speed. Go to “912.00 PC cartridge unit motor failure” on page 2-152.
913.00 Service motor error	Printhead assembly failure	Rotation speed of the printhead motor is less than the specified value even when the specified time is passed after the motor starts rotating. Light intensity of the LD1 is less than the specified value. Go to “913.00 Printhead assembly failure” on page 2-153.
914.00 Service motor error	Toner add motor assembly failure	The toner concentration in the PC cartridge does not increase when the toner add motor is turned on for more than the specified time. Go to “914.00 Toner add motor assembly failure” on page 2-153.
915.00 Service fan error	Fuser cooling fan failure	The fuser cooling fan has failed. Go to “915.00 Fuser cooling fan failure” on page 2-154.
916.00 Service fan error	PC cartridge cooling fan failure	The PC cartridge cooling fan has failed. Go to “916.00 PC cartridge cooling fan failure” on page 2-154.
917.00 Service fan error	LVPS cooling fan failure	The LVPS cooling fan has failed. Go to “917.00 LVPS cooling fan failure” on page 2-155.
918.00 Service std. bin 1 error	Sensor (exit 1 media shift HP) failure	The sensor (exit 1 media shift HP) is not turned on within the specified period after the exit 1 media shift motor is turned on. Go to “918.00 Sensor (exit 1 media shift HP) failure” on page 2-156.
919.00 Service std. bin 2 error	Sensor (exit 2 media shift HP) failure	The sensor (exit 2 media shift HP) is not turned on within the specified time after the exit 2 shift motor is turned on. Go to “919.00 Sensor (exit 2 media shift HP) failure” on page 2-157.
919.01 Service std. bin 2	Exit 2 unit assembly connection failure	Exit 2 unit assembly is missing or damaged. Go to “919.01 Exit 2 unit assembly connection failure” on page 2-158.

Previous



Next



Go Back

Error code or message	Error contents	Description/Action
920.00 Service fuser error	Fuser unit assembly on time failure	<p>During the warm-up period, the control thermistor does not detect the ready temperature even when the specified time is passed after the main lamp is turned on.</p> <p>During the standby period, the control thermistor does not detect the specified temperature even when the specified time is passed after the main lamp is on.</p> <p>During the standby period, the control thermistor does not detect the specified temperature even when the specified time is passed after the sub lamp in on.</p> <p>During idling, after power-on, the control thermistor does not detect the idling stop temperature even after the specified time is passed.</p> <p>During print, the control thermistor does not detect the specified temperature even when the specified time is passed after the main lamp is turned on.</p> <p>During print, the control thermistor does not detect the specified temperature even when the specified time is passed after the sub lamp is turned on.</p> <p>Go to “920.00 Fuser unit assembly on time failure” on page 2-158.</p>
921.00 Service fuser error	Over heat temperature failure	<p>The control thermistor detects a temperature higher than the specified value.</p> <p>The lamp change thermistor detects a temperature higher than the specified value.</p> <p>Go to “921.00 Over heat temperature failure” on page 2-159.</p>
922.00 Service fuser error	Center thermistor failure	<p>The center thermistor has failed.</p> <p>Go to “922.00 Center thermistor failure” on page 2-159.</p>
923.00 Service fuser error	Rear thermistor failure	<p>The rear thermistor has failed.</p> <p>Go to “923.00 Rear thermistor failure” on page 2-160.</p>
924.00 Service fuser error	Pressure roll thermistor failure	<p>The pressure roll thermistor has failed.</p> <p>Go to “924.00 Pressure roll thermistor failure” on page 2-160.</p>
925.00 Service fuser error	Fuser operating temperature failure.	<p>Fuser temperature is not high enough during printing.</p> <p>Go to “925.00 Fuser operating temperature failure” on page 2-160.</p>
927.00 Service PC cartridge	PC cartridge RFID data write failure	<p>A data write error occurred on the PC cartridge RFID tag in the PC cartridge.</p> <p>Go to “927.00 PC cartridge RFID data write failure” on page 2-161.</p>
928.00 Service PC cartridge	PC cartridge RFID communication failure	<p>A communication error occurred between the PC cartridge RFID tag in the PC cartridge and the RFID ASIC on the printer engine card assembly.</p> <p>Go to “928.00 PC cartridge RFID communication failure” on page 2-161.</p>

Previous



Next



Go Back

Error code or message	Error contents	Description/Action
929.00 Service PC cartridge	Sensor (ATC) failure	The sensor (ATC) failed. Go to “929.00 Sensor (ATC) failure” on page 2-162.
930.00 Service printhead error	Laser power failure	Light intensity of the LD2 is less than the specified value. Go to “930.00 Laser power failure” on page 2-162.
932.00 Toner cartridge	Toner cartridge RFID data write failure	A data write error occurred on the toner cartridge RFID tag in the toner cartridge. Go to “932.00 Toner cartridge RFID data write failure” on page 2-163.
933.00 Toner cartridge	Toner cartridge RFID communication failure	A communication error occurred between the toner RFID tag in the toner cartridge and the RFID ASIC on the printer engine card assembly. Go to “933.00 Toner cartridge RFID communication failure” on page 2-163.
939.00 Service RIP engine Comm.	RIP card assembly communication failure	A communication error occurred between the printer engine card and the RIP card assembly. Go to “939.00 RIP card assembly communication failure” on page 2-163.
941.00 Service tray 1 failure	Media tray 1 lift up / no tray failure	The media tray 1 sensor (media level) is not turned on within the specified time after the tray 1 media feed lift motor is turned on. The media tray 1 switch (media size) detected no media tray. Go to “941.00 Media tray 1 lift up / no media tray failure” on page 2-164.
942.00 Service tray 2 failure	Media tray 2 lift up / no tray failure	The media tray 2 sensor (media level) is not turned on within the specified time after the media tray 2 media feed lift motor is turned on. The media tray 2 switch (media size) detected no media tray. Go to “942.00 Media tray 2 lift up / no media tray failure” on page 2-165.
943.00 Service tray 3 failure	Media tray 3 lift up / no tray failure	The tray 3 sensor (media level) is not turned on within the specified time after the tray 3 media feed lift motor is turned on. The tray 3 switch (media size) detected no tray. TTM equipped machines, go to “943.00 Tray 3 lift up / no tray failure” on page 2-167. 2TM equipped machines, refer to the <i>Options Service Manual</i> .
944.00 Service tray 4 failure	Media tray 4 lift up / no tray failure	The tray 4 sensor (media level) is not turned on within the specified time after the tray 4 media feed lift motor is turned on. The tray 4 switch (media size) detected no tray. TTM equipped machines, go to “944.00 Tray 4 lift up / no tray failure” on page 2-168. 2TM equipped machines, refer to the <i>Options Service Manual</i> .

Previous



Next



Go Back

Error code or message	Error contents	Description/Action
945.00 Service tray 5 failure	Media tray 5 lift up/no tray failure	The sensor (HCF media level) is not turned on with the specified time after the HCF feed lift motor is turned on. Refer to the <i>Options Service Manual</i> .
945.01 Service tray 5 failure	Tray 5 HCF NVM R/W failure	A read/write error has occurred on the NVM of the tray 5 HCF controller card assembly. Refer to the <i>Options Service Manual</i> .
951.XX Service NVRAM failure	RIP card assembly NVRAM failure	A failure has occurred in the RIP card assembly NVRAM. Go to “951.XX RIP card assembly NVRAM failure” on page 2-170.
953.XX Service NVRAM failure	Operator panel assembly NVRAM failure	NVRAM chip failure with operator panel assembly (mirror). Go to “953.XX Operator panel assembly NVRAM failure” on page 2-170.
955.XX Service Code CRC	RIP card assembly NAND CRC failure	The code ROM or NAND flash failed the cyclic redundancy check. Go to “955.XX RIP card assembly NAND CRC failure” on page 2-170.
956.00 Service system board	RIP card assembly processor failure	The RIP card processor has failed. Go to “956.00 RIP card assembly processor failure” on page 2-171.
956.01 Service system board	RIP card assembly processor over temperature failure	The RIP card assembly has exceeded safe operating temperature. Go to “956.01 RIP card assembly processor over temperature failure” on page 2-171.
956.02 Service system board	RIP card assembly cooling fan failure	The RIP card assembly cooling fan is not functioning properly. Go to “956.02 RIP card assembly cooling fan failure” on page 2-171.
956.03 Service system board	RIP card assembly FPGA failure	The RIP card assembly has failed. Go to “956.03 RIP card assembly FPGA failure” on page 2-172.
980.00 Service tray 3 comm.	Tray 3/4 communication failure	A communication error occurred between the printer engine card assembly and the 2TM/TTM controller card assembly. TTM equipped machines, go to “980.00 2TM/TTM controller card assembly communication failure” on page 2-172. 2TM equipped machines, refer to the <i>Options Service Manual</i> .
980.01 Service tray 5 comm.	Tray 5 HCF communication failure	A communication error occurred between the printer engine card assembly and the HCF controller card assembly. Refer to the <i>Options Service Manual</i> .
980.02 Service finisher error	Printer engine card-finisher communication failure	A communication error occurred between the printer engine card assembly and the finisher. Refer to the <i>Options Service Manual</i> .



Error code or message	Error contents	Description/Action
980.03 Service standard bin comm.	Exit interface card assembly, communication failure	A communication error occurred between the printer engine card assembly and the exit interface card assembly. Go to “980.03 Exit interface card assembly communication failure” on page 2-173.
980.04 Service duplex comm.	Duplex controller card assembly communication failure	A communication error occurred between the printer engine card assembly and the duplex controller card assembly. Go to “980.04 Duplex controller card assembly communication failure” on page 2-173.
980.05 Service Flicker comm.	Engine flicker communication failure	A communication error has occurred in the printer engine card assembly. Go to “980.05 Engine flicker communication failure” on page 2-174.
981.00 Service finisher error	Stacker bin failure	The sensor (stacker bin level) is not turned on within the specified period after the stacker bin starts rising. <i>Refer to the Options Service Manual.</i>
981.01 Service finisher error	Stacker bin upper limit failure	The stacker bin abnormally rises beyond the specified upper limit position (stacker bin level). <i>Refer to the Options Service Manual.</i>
981.02 Service finisher error	Stacker bin lower limit failure	The stacker bin abnormally lowers beyond the specified lower limit position (full stack). <i>Refer to the Options Service Manual.</i>
982.00 Service finisher error	Sensor (front tamper HP) on failure	The sensor (front tamper HP) is not turned on after the front tamper starts moving to the front tamper home position. <i>Refer to the Options Service Manual.</i>
982.01 Service finisher error	Sensor (front tamper HP) off failure	The sensor (front tamper HP) is not turned off within the specified time after the front tamper starts leaving from the front tamper home position. Or the sensor (front tamper HP) is turned on again after the sensor (compiler front tamper HP) is turned off, and the front tamper stopped its moving. <i>Refer to the Options Service Manual.</i>
983.00 Service finisher error	Sensor (rear tamper HP) on failure	The sensor (rear tamper HP) is not turned on after the rear tamper starts moving to the rear tamper home position. <i>Refer to the Options Service Manual.</i>
983.01 Service finisher error	Sensor (compiler rear tamper HP) off failure	The sensor (compiler rear tamper HP) is not turned off within the specified time after the rear tamper starts leaving from the rear tamper home position. Or the sensor (compiler rear tamper HP) is turned on again after the sensor (compiler rear tamper HP) is turned off, and the rear tamper stopped its moving. <i>Refer to the Options Service Manual.</i>

Previous



Next



Go Back

Error code or message	Error contents	Description/Action
984.00 Service finisher error	Sensor (punch unit HP) on failure	The sensor (punch unit HP) is not turned on even when the specified time passed after the punch unit motor is turned on. Refer to the <i>Options Service Manual</i> .
984.01 Service finisher error	Sensor (punch unit HP) off failure	The sensor (punch unit HP) is not turned off even when the specified time passed after the punch unit motor is turned on. Refer to the <i>Options Service Manual</i> .
985.00 Service finisher error	Sensor (punch carriage shift HP) on failure	The sensor (punch carriage shift HP) is not turned on even when the specified time passed after the punch carriage shift motor assembly is turned on. Or the sensor (punch carriage shift HP) is turned off again after the sensor (punch carriage shift HP) is turned on and the punch carriage shift motor assembly stopped its rotation. Refer to the <i>Options Service Manual</i> .
985.01 Service finisher error	Sensor (punch carriage shift HP) off failure	The sensor (punch carriage shift HP) is not turned off even when the specified time passed after the punch carriage shift motor assembly is turned on. Or the sensor (punch carriage shift HP) is turned on again after the sensor (punch carriage shift HP) is turned off and the punch carriage shift motor assembly stopped its rotation. Refer to the <i>Options Service Manual</i> .
986.00 Service finisher error	Sensor (eject clamp HP) on failure	The sensor (eject clamp HP) is not turned on within 500 ms after the eject clamp up starts. Refer to the <i>Options Service Manual</i> .
986.01 Service finisher error	Sensor (eject clamp HP) off failure	The sensor (eject clamp HP) is not turned off within 200 ms after the eject clamp down starts. Refer to the <i>Options Service Manual</i> .
987.00 Service finisher error	Sensor (media eject shaft HP) on failure	The sensor (media eject shaft HP) is not turned on within 200 ms after the set clamp starts operating. Refer to the <i>Options Service Manual</i> .
987.01 Service finisher error	Sensor (media eject shaft HP) off failure	The sensor (media eject shaft HP) is not turned off within the specified time after the set clamp ends operating. Refer to the <i>Options Service Manual</i> .
988.00 Service finisher error	Sensor (punch unit side reg 1) on failure Sensor (punch unit side reg 2) on failure	The sensor (punch unit side reg 1) or sensor (punch unit side reg 2) did not detect the media correctly or is defective. Refer to the <i>Options Service Manual</i> .
988.01 Service finisher error	Sensor (punch unit side reg 1) off failure Sensor (punch unit side reg 2) off failure	The sensor (punch unit side reg 1) or sensor (punch unit side reg 2) did not detect the media correctly or is defective. Refer to the <i>Options Service Manual</i> .

Previous



Next



Go Back

Error code or message	Error contents	Description/Action
989.00 Service finisher error	Stapler unit failure	<p>The off/on status of the sensor (stapler unit motor HP) is not detected within the specified time after the stapler unit motor (forward operation).</p> <p>Or the sensor (stapler unit motor HP) is not turned on within the specified timer after the stapler unit motor is on (reverse operation).</p> <p>Refer to the <i>Options Service Manual</i>.</p>
990.00 Service finisher error	Sensor (stapler carriage HP) on failure	<p>The sensor (stapler carriage HP) is not turned on within two seconds after the stapler starts moving toward the staple position, and also the sensor (stapler carriage HP) is turned off.</p> <p>Or the sensor (stapler carriage HP) is not turned on after the stapler was moved to the staple position.</p> <p>Or the sensor (stapler carriage HP) is turned off again after the sensor (stapler carriage HP) is turned on, and the stapler stopped its moving.</p> <p>Refer to the <i>Options Service Manual</i>.</p>
990.01 Service finisher error	Sensor (stapler carriage HP) off failure	<p>The sensor (stapler carriage HP) is not turned off within 500 ms after stapler starts moving to the staple position, and sensor (stapler carriage HP) is turned off.</p> <p>Or the sensor (stapler carriage HP) is not turned off after the stapler was moved to the staple position.</p> <p>Or the sensor (stapler carriage HP) is turned on again after the sensor (stapler carriage HP) is turned off, and the stapler stopped its moving.</p> <p>Refer to the <i>Options Service Manual</i>.</p>
995.00 Service finisher NV	Finisher NVM R/W failure	<p>A read/write error occurred on the NVM of the finisher controller card assembly.</p> <p>Refer to the <i>Options Service Manual</i>.</p>
996.00 Service wrong finisher	Finisher type failure	<p>An incorrect type of finisher is connected.</p> <p>Refer to the <i>Options Service Manual</i>.</p>
997.00 Service wrong duplex	Duplex controller card assembly type failure	<p>A duplex controller card assembly of a different specification is installed.</p> <p>Go to “997.00 Duplex controller card assembly type failure” on page 2-174.</p>
999.00 Service finisher error	Finisher engine/RIP functional failure	<p>The engine reported a finisher failure that the RIP card assembly did not recognize.</p> <p>Refer to the <i>Options Service Manual</i>.</p>
Check tray 1 guides	Tray 1 media size failure.	<p>Although tray 1 is in the printer, the media size is not detected correctly.</p> <p>Go to “Tray 1 media size failure” on page 2-192.</p>
Check tray 1 or 2 orientation or guides	Paper is installed (short edge) in the media paper tray.	<p>This error occurs when short edge printing is disabled, and the paper in the tray is not installed long edge (Letter A4).</p> <p>Go to “Paper is installed (short edge) in the media paper tray” on page 2-181.</p>

Previous



Next



Go Back

Error code or message	Error contents	Description/Action
Check tray 1 or tray 2 orientation or guides	Media size mismatch in width.	The media width is incorrect. Go to “Media size mismatch in width” on page 2-177.
Check tray 2 guides	Tray 2 media size failure.	Although tray 2 is in the printer, the media size is not detected correctly. Go to “Tray 2 media size failure” on page 2-193.
Check tray 3 or check tray 4 orientation or guides	Media size mismatch in width.	The media width is incorrect. Go to “Media size mismatch in width” on page 2-178.
Close cover F	Bridge unit cover is open.	The bridge unit assembly cover is open. Refer to the <i>Options Service Manual</i> .
Close cover K	HCF top door open	The tray 5 HCF top door is open. Refer to the <i>Options Service Manual</i> .
Close door A	Printer left door open.	The printer left door assembly is open. Go to “Printer left door open” on page 2-184.
Close door B	Printer left lower door open.	The printer left lower door assembly is open. Go to “Printer left lower door open” on page 2-185.
Close door C	2TM/TTM left door assembly open	The 2TM/TTM door is open. TTM equipped machines, go to “2TM/TTM left door assembly open” on page 2-175. 2TM equipped machines, refer to the <i>Options Service Manual</i> .
Close door D	Duplex left door open	The duplex left cover is open. Go to “Duplex left door assembly open” on page 2-176.
Close door E	Exit 2 left door open	The exit 2 left door is open. Go to “Exit 2 left door assembly open” on page 2-176.
Close door G	Finisher front door open.	The finisher front door is open. Refer to the <i>Options Service Manual</i> .
Close door J	Printer front door open.	The printer front door assembly is open. Go to “Printer front door open” on page 2-183.
Close surface H	Eject cover open.	Finisher eject cover is open. Refer to the <i>Options Service Manual</i> .
Empty hole punch box	Punch waste box full.	The punch waste box is full. Refer to the <i>Options Service Manual</i> .
Insert hole punch box	Punch waste box missing.	No punch waste box. Refer to the <i>Options Service Manual</i> .
Load staples	Staple cartridge empty.	Staple cartridge empty. Refer to the <i>Options Service Manual</i> .



Error code or message	Error contents	Description/Action
Load tray 1 or tray 2 with <media>	No media in the selected media tray.	Media is not loaded in the tray. Go to “No media in the select media tray” on page 2-179.
Load tray 3 or tray 4 with <media>	No media in the selected media tray.	Media is not loaded in the tray. Go to “No media in the select media tray” on page 2-180.
Load tray 5 with <media>	No media in the selected media tray.	Media is not loaded in the tray. Refer to the <i>Options Service Manual</i> .
Remove paper from bin 1	Finisher upper media bin full.	Stacker set over count. The upper media bin has reached maximum capacity. Refer to the <i>Options Service Manual</i> .
Remove paper from bin 2	Stacker media bin full (no mix)	The stacker media bin has reached maximum capacity (no mix). Refer to the <i>Options Service Manual</i> .
Remove paper from bin 2	Stacker media bin full (mix size)	The stacker media bin has reached maximum capacity (mix size). Refer to the <i>Options Service Manual</i> .
Remove paper from standard output bin	Standard bin 1 full.	Media in standard bin 1 is at maximum capacity. Go to “Standard bin 1 full” on page 2-185.
Remove paper from standard output bin	Standard bin 2 full.	Media in standard bin 2 is at maximum capacity. Go to “Standard bin 2 full” on page 2-186.
Scanner ADF cover open	Switch (ADF left cover interlock) open	The system detected that the switch (ADF left cover interlock) is open. Go to “Switch (ADF left cover interlock) open” on page 2-188.
Scanner missing - cable unplugged	Scanner missing failure	The scanner unit assembly is unplugged or missing. Go to “Scanner missing failure” on page 2-187.
Toner low	Toner cartridge near empty	The toner in the toner cartridge is low, but can be used. Go to “Toner cartridge near empty” on page 2-190.
Toner unsupported	Toner cartridge RFID failure	A toner cartridge of a different specification is installed. Go to “Toner cartridge RFID failure” on page 2-191.
Tray 5 missing	HCF unit docking failure or HCF tray 5 set failure.	The tray 5 HCF unit is not properly docked with the printer or the HCF tray 5 is not set. Refer to the <i>Options Service Manual</i> .

Previous



Next



Go Back

Service checks

200.00 Sensor (registration) off jam (too long)

Step	Check	Yes	No
1	Check the media position. Open the printer left door assembly, and visually check it. Does the media touch the sensor (registration)?	Remove the media.	Go to step 2.
2	Check the roll. Open the printer left door assembly, and check it. Is the transport roll assembly free of excess wear and contamination?	Go to step 3.	Clean or replace the transport roll assembly. Go to “Transfer roll assembly removal” on page 4-73.
3	Check the sensor (registration) for proper operation. 1. Enter the Diagnostics Menu. 2. Touch BASE SENSOR TEST. 3. Touch Media Path. 4. Touch Registration. Open the printer left door assembly, and check it. Does the display on the operator panel change every time the sensor actuator is operated?	Go to step 5.	Go to step 4.
4	Check the sensor (registration) connection. Is the sensor (registration) properly connected?	Replace the sensor (registration). Go to “Sensor (registration) removal” on page 4-81.	Replace the connection.
5	Check the registration clutch for proper operation. 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Printer Motor Test. 4. Touch Registrat clutch. Does the registration clutch make an audible clicking sound when activated?	Go to step 7.	Go to step 6.
6	Check the registration clutch connection. Is the registration clutch properly connected?	Replace the registration clutch. Go to “Registration clutch assembly removal” on page 4-80.	Replace the connection.
7	Perform a print test. Does the error continue?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

Previous



Next



Go Back

200.01 Sensor (registration) static on jam

Step	Check	Yes	No
1	Check the media position. Open the printer left door assembly, and visually check it. Does the media touch the sensor (registration)?	Remove the media.	Go to step 2.
2	Check the sensor (registration) for proper operation. 1. Enter the Diagnostics Menu. 2. Touch BASE SENSOR TEST . 3. Touch Media Path . 4. Touch Registration . Open the printer left door assembly, and check it. Does the display on the operator panel change every time the sensor actuator is operated?	Go to step 4.	Go to step 3.
3	Check the sensor (registration) connection. Is the sensor (registration) properly connected?	Replace the sensor (registration). Go to “Sensor (registration) removal” on page 4-81 .	Replace the connection.
4	Perform a print test. Does the error continue?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119 .	Problem solved.

Previous




Next



Go Back

201.00 Sensor (fuser exit) on jam

Step	Check	Yes	No
1	Check the media position. Does the media touch the sensor (fuser exit)? Open the printer left door assembly, and visually check it.	Remove the media.	Go to step 2.
2	Check the fuser exit actuator. Does the fuser exit actuator appear to be binding or sticking in its normal resting position and not allowing media to pass?	Replace the fuser exit actuator. Go to “Sensor (fuser exit) removal” on page 4-103.	Go to step 3.
3	Check the roll. Open the printer left door assembly, and check it. Is the transfer roll assembly free of excess wear and contamination?	Go to step 4.	Clean or replace the transfer roll assembly. Go to “Transfer roll assembly removal” on page 4-73.
4	Inspect the pinch roll on the transfer roll guide assembly. Is the transfer roll guide assembly free of damage?	Go to step 5	Replace the transfer roll guide assembly Go to “Transfer roll guide assembly removal” on page 4-77.
5	Check the sensor (fuser exit) for proper operation. 1. Enter the Diagnostics Menu. 2. Touch BASE SENSOR TEST. 3. Touch Media Path. 4. Touch Fuser exit. Open the printer left door assembly, and check it.  The area around the actuator is very hot. Allow the fuser area to cool before proceeding. Does the display on the operator panel change every time the sensor actuator is operated?	Go to step 7.	Go to step 6.
6	Check the sensor (fuser exit) connection. Is the sensor (fuser exit) properly connected?	Replace the sensor (fuser exit). Go to “Sensor (fuser exit) removal” on page 4-103.	Replace the connection.
7	Check the registration clutch for proper operation. 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Printer Motor Test. 4. Touch Registrat clutch. Does the registration clutch make an audible clicking sound when activated?	Go to step 8.	Go to step 9

Previous



Next



Go Back

Step	Check	Yes	No
8	Check the registration clutch connection. Is the registration clutch properly connected?	Replace the registration clutch. Go to “Registration clutch assembly removal” on page 4-80.	Replace the connection.
9	Perform a print test. Does the error continue?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

Previous




Next




Go Back

202.00 Sensor (fuser exit) off jam

Step	Check	Yes	No
1	Check the media position. Open the printer left door assembly, and visually check it. Does the media touch the sensor (fuser exit)?	Remove the media.	Go to step 2.
2	Check the roll. Open the printer left door assembly, and check it. Is the transport roll assembly free of excess wear and contamination?	Go to step 3.	Clean or replace the transport roll assembly.
3	Check the sensor (fuser exit) for proper operation. 1. Enter the Diagnostics Menu. 2. Touch BASE SENSOR TEST. 3. Touch Media Path. 4. Touch Fuser exit. Open the printer left door assembly, and check it.  The area around the actuator is very hot. Allow the fuser area to cool before proceeding. Does the display on the operator panel change every time the sensor actuator is operated?	Go to step 5.	Go to step 4.
4	Check the sensor (fuser exit) connection. Is the sensor (fuser exit) properly connected?	Replace the sensor (fuser exit). Go to “Sensor (fuser exit) removal” on page 4-103.	Replace the connection.
5	Perform a print test. Does the error continue?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

202.01 Sensor (fuser exit) off (too short) jam

Step	Check	Yes	No
1	Check the media position. Open the printer left door assembly, and visually check it. Does the media touch the sensor (fuser exit)?	Remove the media.	Go to step 2.
2	Check the fuser unit assembly for a media jam. Open the printer left door assembly, and check it. Is there a media jam in the fuser unit assembly?	Remove the media.	Go to step 3.
3	Check the fuser unit assembly for proper installation. Open the printer left door assembly, and check it. Is the fuser unit assembly installed properly?	Go to step 4.	Install the fuser unit assembly properly. Go to “Fuser unit assembly removal” on page 4-104.
4	Check the roll. Open the printer left door assembly, and check it. Is the transport roll assembly free of excess wear and contamination?	Go to step 5.	Clean or replace the transport roll assembly. Go to “Transfer roll guide assembly removal” on page 4-77.
5	Check the sensor (fuser exit) for operation. 1. Enter the Diagnostics Menu. 2. Touch BASE SENSOR TEST. 3. Touch Media Path. 4. Touch Fuser exit. Open the printer left door assembly, and check it.  The area around the actuator is very hot. Allow the fuser area to cool before proceeding. Does the display on the operator panel change every time the sensor actuator is operated?	Go to step 7.	Go to step 6.
6	Check the sensor (fuser exit) connection. Is the sensor (fuser exit) properly connected?	Replace the sensor (fuser exit). Go to “Sensor (fuser exit) removal” on page 4-103.	Replace the connection.
7	Perform a print test. Does the error continue?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

Previous




Next



Go Back

202.02 Sensor (fuser exit) static jam

Step	Check	Yes	No
1	<p>Check the media position.</p> <p>Open the printer left door assembly, and visually check it.</p> <p>Does the media touch the sensor (fuser exit)?</p> <p>Open the printer left door assembly, and check it.</p>	Remove the media.	Go to step 2.
2	<p>Check the sensor (fuser exit) for operation.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch BASE SENSOR TEST. 3. Touch Media Path. 4. Touch Fuser exit. <p>Open the printer left door assembly, and check it.</p> <p> The area around the actuator is very hot. Allow the fuser area to cool before proceeding.</p> <p>Does the display on the operator panel change every time the sensor actuator is operated?</p>	Go to step 4.	Go to step 3.
3	Is the sensor (fuser exit) properly connected?	<p>Replace the sensor (fuser exit).</p> <p>Go to “Sensor (fuser exit) removal” on page 4-103.</p>	Replace the connection.
4	<p>Perform a print test.</p> <p>Does the error continue?</p>	<p>Replace the printer engine card assembly.</p> <p>Go to “Printer engine card assembly removal” on page 4-119.</p>	Problem solved.

Previous




Next



Go Back

203.00 Sensor (exit 2) on jam

Step	Check	Yes	No
1	<p>Check the media position.</p> <p>Open the printer left door assembly, and visually check it.</p> <p>Does the media touch the sensor (fuser exit)?</p>	Remove the media.	Go to step 2.
2	<p>Check the media position.</p> <p>Open the exit 2 left door assembly, and visually check it.</p> <p>Does the media touch the sensor (exit 2)?</p>	Remove the media.	Go to step 3.
3	<p>Check the roll.</p> <p>Open printer left door assembly.</p> <p>Is the exit 1 media exit roll assembly free of excess wear and contamination?</p>	Go to step 4.	<p>Clean or replace the exit 1 media shift assembly.</p> <p>Go to “Exit 1 media shift assembly removal” on page 4-105</p>

Step	Check	Yes	No
4	<p>Check the drive power transmission.</p> <p>Does the exit 1 media exit roll assembly and the other gears rotate smoothly?</p>	Go to step 5.	<p>Replace damaged components.</p> <p>Go to “Exit 1 media shift assembly removal” on page 4-105.</p>
5	<p>Check the sensor (fuser exit) for operation.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch BASE SENSOR TEST. 3. Touch Media Path. 4. Touch Fuser exit. <p>Open the printer left door assembly, and check it.</p> <p> The area around the actuator is very hot. Allow the fuser area to cool before proceeding.</p> <p>Does the display on the operator panel change every time the sensor actuator is operated?</p>	Go to step 7.	Go to step 6.
6	<p>Check the sensor (fuser exit).</p> <p>Is the above sensor connected properly?</p>	<p>Replace the sensor (fuser exit).</p> <p>Go to “Sensor (fuser exit) removal” on page 4-103.</p>	Replace the connection.
7	<p>Check the exit 2 drive motor for proper operation.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Printer Motor Test. 4. Touch Exit2 drive mtr. 5. Touch Forward or reverse. <p>Does the above motor rotate normally?</p>	Go to step 9.	Go to step 8.
8	<p>Check the exit 2 drive motor for proper operation.</p> <p>Is the above motor connected properly?</p>	<p>Replace the exit 2 unit assembly.</p> <p>Go to “Exit 2 unit assembly removal” on page 4-322.</p>	Replace the connection.
9	<p>Check the sensor (exit 2) for proper operation.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch BASE SENSOR TEST. 3. Touch Media Path. 4. Touch Exit2. <p>Open the printer left door assembly and the exit 2 left door assembly.</p> <p>Does the display on the operator panel change every time the actuator on the above sensor operates?</p>	Go to step 11.	Go to step 10.
10	<p>Check the sensor (exit 2) for proper connection.</p> <p>Is the above sensor connected properly?</p>	<p>Replace the sensor (exit 2).</p> <p>Go to “Exit 2 sensor (exit 2) removal” on page 4-335.</p>	Replace the connection.

Previous



Next



Go Back

Step	Check	Yes	No
11	<p>Check the media diverter solenoid for proper operation.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Printer Motor Test. 4. Touch Diverter solenoid. <p>Open the printer left door assembly. Does the above component operate normally?</p>	Go to step 13.	Go to step 12.
12	<p>Check the media diverter solenoid for proper connection.</p> <p>Is the above component connect properly?</p>	<p>Replace the media diverter solenoid.</p> <p>Go to “Exit 2 media diverter solenoid removal” on page 4-334.</p>	Replace the connection.
13	<p>Perform a print test.</p> <p>Does the error still occur?</p>	<p>Replace the exit interface card assembly.</p> <p>Go to “Exit interface card assembly removal” on page 4-117.</p> <p>Go to step 14.</p>	Problem solved.
14	<p>Perform a print test.</p> <p>Does the error still occur?</p>	<p>Replace the printer engine card assembly.</p> <p>Go to “Printer engine card assembly removal” on page 4-119.</p>	Problem solved.

Previous



Next



Go Back

203.01 Sensor (exit 2) off jam

Step	Check	Yes	No
1	<p>Check the media position.</p> <p>Open the exit 2 left door assembly, and visually check it.</p> <p>Does the media touch the sensor (exit 2)?</p>	Remove the media.	Go to step 2.
2	<p>Check the roll.</p> <p>Open the exit 2 left door assembly.</p> <p>Is the exit 2 media transport roll assembly free of excess wear and contamination?</p>	Go to step 3.	<p>Clean or replace the exit 2 unit assembly.</p> <p>Go to “Exit 2 unit assembly removal” on page 4-322.</p>
3	<p>Check the drive power transmission.</p> <p>Do the exit 2 media transport roll assembly and the other gears rotate smoothly?</p>	Go to step 4.	<p>Replace damaged parts.</p> <p>Go to “Exit 2 unit assembly removal” on page 4-322.</p>
4	<p>Check the roll.</p> <p>Open exit 2 left door assembly.</p> <p>Is the exit 2 media exit roll assembly free of excess wear and contamination?</p>	Go to step 5.	<p>Clean or replace the exit 2 unit assembly.</p> <p>Go to “Exit 2 unit assembly removal” on page 4-322.</p>

Step	Check	Yes	No
5	Check the drive power transmission. Do the exit 2 media exit roll assembly and the other gears rotate smoothly?	Go to step 6.	Replace damaged parts. Go to “Exit 2 unit assembly removal” on page 4-322.
6	Check the sensor (exit 2) for proper operation. 1. Enter the Diagnostics Menu. 2. Touch BASE SENSOR TEST. 3. Touch Media Path. 4. Touch Exit2. Open the printer left door assembly and the exit 2 left door assembly. Does the display on the operator panel change every time the actuator on the above sensor operates?	Go to step 8.	Go to step 7.
7	Check the sensor (exit 2) for proper connection. Is the above sensor connected properly?	Replace the sensor (exit 2). Go to “Exit 2 sensor (exit 2) removal” on page 4-335.	Replace the connection.
8	Check the exit 2 drive motor for proper operation. 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Printer Motor Test. 4. Touch Exit2 drive mtr. 5. Touch Forward or reverse. Does the above motor rotate normally?	Go to step 10.	Go to step 9.
9	Check the exit 2 drive motor for proper connection. Is the above motor connected properly?	Replace the exit 2 unit assembly. Go to “Exit 2 unit assembly removal” on page 4-322.	Replace the connection.
10	Perform a print test. Does the error still occur?	Replace the exit interface card assembly. Go to “Exit interface card assembly removal” on page 4-117. Go to step 11.	Problem solved.
11	Perform a print test. Does the error still occur?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

Previous



Next



Go Back

203.02 Sensor (exit 2) on jam in standard bin or finisher

Step	Check	Yes	No
1	Check the position of the media diverter solenoid. Is the media diverter gate facing toward exit 1?	Go to step 2.	Go to step 3.
2	Check the media diverter gate for an obstruction. Is the media diverter gate free of any debris or obstructions?	Remove any obstructions.	Go to step 3.
3	Check the diverter solenoid for proper operation. 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS . 3. Touch Printer Motor Test . 4. Touch Diverter solenoid . Open the printer left door assembly. Does the above component operate normally?	Go to step 5.	Go to step 3.
4	Check the media diverter solenoid for proper connection. Is the above component connected properly?	Replace the exit 2 unit assembly. Go to “Exit 2 unit assembly removal” on page 4-322.	Replace the connection.
5	Check the media position. Open the exit 2 left door assembly, and visually check it. Does the media touch the sensor (exit 2)?	Remove the media.	Go to step 6.
6	Check the sensor (exit 2) for proper operation. 1. Enter the Diagnostics Menu. 2. Touch BASE SENSOR TEST . 3. Touch Media Path . 4. Touch Exit2 . Open the printer left door assembly and the exit 2 left door assembly. Does the display on the operator panel change every time the actuator on the above sensor operates?	Go to step 8.	Go to step 7.
7	Check the sensor (exit 2) for proper connection. Is the above sensor connected properly?	Replace the sensor (exit 2). Go to “Exit 2 sensor (exit 2) removal” on page 4-335.	Replace the connection.
8	Perform a print test. Does the error still occur?	Replace the exit interface card assembly. Go to “Exit interface card assembly removal” on page 4-117. Go to step 9.	Problem solved.

Previous



Next



Go Back

Step	Check	Yes	No
9	Perform a print test. Does the error still occur?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

Previous



Next



Go Back

203.03 Sensor (exit 2) static jam

Step	Check	Yes	No
1	Check the media position. Open the exit 2 left door assembly, and visually check it. Does the media touch the sensor (exit 2)?	Remove the media.	Go to step 2.
2	Check the sensor (exit 2) for proper operation. 1. Enter the Diagnostics Menu. 2. Touch BASE SENSOR TEST. 3. Touch Media Path. 4. Touch Exit2. Open the printer left door assembly and the exit 2 left door assembly. Does the display on the operator panel change every time the actuator on the above sensor operates?	Go to step 4.	Go to step 3.
3	Check the sensor (exit 2) for proper connection. Is the above sensor connected properly?	Replace the sensor (exit 2). Go to “Exit 2 sensor (exit 2) removal” on page 4-335.	Replace the connection.
4	Perform a print test. Does the error still occur?	Replace the exit interface card assembly. Go to “Exit interface card assembly removal” on page 4-117. Go to step 5.	Problem solved.
5	Perform a print test. Does the error still occur?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

230.00 Sensor (duplex wait) on jam

Step	Check	Yes	No
1	Check the media position. Does the media remain in the exit 2? Open the exit 2 left door assembly, and visually check it.	Remove the media.	Go to step 2.
2	Check the roll. Open exit 2 left door assembly. Is the exit 2 media transport roll assembly free of excess wear and contamination?	Go to step 3.	Clean or replace the exit 2 unit assembly. Go to “Exit 2 unit assembly removal” on page 4-322.
3	Check the drive power transmission. Does the exit 2 media transport roll assembly and the other gears rotate smoothly?	Go to step 4.	Replace damaged parts. Go to “Exit 2 unit assembly removal” on page 4-322.
4	Check the roll. Open exit 2 left door assembly. Is the exit 2 media exit roll assembly free of excess wear and contamination?	Go to step 5.	Clean or replace the exit 2 unit assembly. Go to “Exit 2 unit assembly removal” on page 4-322.
5	Check the drive power transmission. Does the exit 2 media exit roll assembly and the other gears rotate smoothly?	Go to step 6.	Replace damaged parts. Go to “Exit 2 unit assembly removal” on page 4-322.
6	Check the exit 2 drive motor for proper operation. 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Printer Motor Test. 4. Touch Exit2 drive mtr. 5. Touch Forward or reverse. Does the above motor rotate normally?	Go to step 9.	Go to step 7.
7	Check the exit 2 drive motor for proper connection. Is the above motor connected properly?	Replace the exit 2 unit assembly. Go to “Exit 2 unit assembly removal” on page 4-322.	Replace the connection.
8	Check the connection between the exit interface card assembly and the printer engine card assembly. Are connectors PJ431 and PJ421 connected properly?	Go to step 9.	Replace the connection.
9	Check the sensor (duplex wait) for proper operation. 1. Enter the Diagnostics Menu. 2. Touch DUPLEX TESTS. 3. Touch Sensor Test. 4. Touch Duplex wait. Open the duplex left door assembly. Does the display on the operator panel change every time the actuator on the above sensor operates?	Go to step 11.	Go to step 10.

Previous



Next



Go Back

Step	Check	Yes	No
10	Check the sensor (duplex wait) for proper connection. Is the above sensor connected properly?	Replace the sensor (duplex wait). Go to “Duplex sensor (duplex wait) removal” on page 4-314.	Replace the connection.
11	Perform a print test. Does the error still occur?	Replace the exit interface card assembly. Go to “Exit interface card assembly removal” on page 4-117. Go to step 11.	Problem solved.
12	Perform a print test. Does the error still occur?	Replace the duplex controller card assembly. Go to “Duplex controller card assembly removal” on page 4-311. Go to step 13.	Problem solved.
13	Perform a print test. Does the error still occur?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

Previous



Next



Go Back

230.00 Sensor (duplex wait) on jam

Step	Check	Yes	No
1	Check the paper position. Open the exit 2 left door assembly, and visually check it. Does the paper remain in the exit 2?	Remove the paper.	Go to step 2.
2	Check the roll. Open exit 2 left door assembly. Is the exit 2 media transport roll assembly free of excess wear and contamination?	Go to step 3.	Clean or replace the exit 2 unit assembly. Go to “Exit 2 unit assembly removal” on page 4-322.
3	Check the drive power transmission. Do the exit 2 media transport roll assembly and the other gears rotate smoothly?	Go to step 4.	Replace damaged components or the exit 2 unit assembly. Go to “Exit 2 unit assembly removal” on page 4-322.
4	Check the roll. Open exit 2 left door assembly. Is the exit 2 media exit roll assembly free of excess wear and contamination?	Go to step 5.	Clean or replace the exit 2 unit assembly. Go to “Exit 2 unit assembly removal” on page 4-322.

Step	Check	Yes	No
5	Check the drive power transmission. Do the exit 2 media exit roll assembly and the other gears rotate smoothly?	Go to step 6.	Replace damaged components. Go to “Exit 2 unit assembly removal” on page 4-322.
6	Check the exit 2 drive motor for proper operation. 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Printer Motor Test. 4. Touch Exit2 drive mtr. 5. Touch Forward or reverse. Does the above motor rotate normally?	Go to step 8.	Go to step 7.
7	Check the exit 2 drive motor for proper connection. Is the above motor connected properly?	Replace the exit 2 unit assembly. Go to “Exit 2 unit assembly removal” on page 4-322.	Replace the connection.
8	Check the connection between the exit interface card assembly and the printer engine card assembly. Are connectors P431 and P421 connected properly?	Go to step 9.	Replace the connection.
9	Check the sensor (duplex wait) for proper operation. 1. Enter the Diagnostics Menu. 2. Touch DUPLEX TESTS. 3. Touch Sensor Test. 4. Touch Duplex wait. Open the duplex left door assembly. Does the display on the operator panel change every time the sensing area of the above sensor is blocked by the duplex wait actuator?	Go to step 11.	Go to step 10.
10	Check the sensor (duplex wait) for proper connection. Is the above sensor connected properly?	Replace the sensor (duplex wait). Go to “Duplex sensor (duplex wait) removal” on page 4-314.	Replace the connection.
11	Perform a 2 sided print test. Does the error still occur?	Replace the duplex controller card assembly. Go to “Duplex controller card assembly removal” on page 4-311. Go to step 12.	Problem solved.
12	Perform a 2 sided print test. Does the error still occur?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

Previous



Next



Go Back

230.01 Sensor (duplex wait) static jam

Previous



Next



Go Back

Step	Check	Yes	No
1	Check the paper position. Open the duplex left door assembly, and visually check it. Does the paper touch the duplex wait actuator?	Remove the paper.	Go to step 2.
2	Check the sensor (duplex wait) for proper operation. 1. Enter the Diagnostics Menu. 2. Touch DUPLEX TESTS . 3. Touch Sensor Test . 4. Touch Duplex wait . Open the duplex left door assembly. Does the display on the operator panel change every time the sensing area of the above sensor is blocked by the duplex wait actuator?	Go to step 4.	Go to step 3.
3	Check the sensor (duplex wait) for proper connection. Is the above sensor connected properly?	Replace the sensor (duplex wait). Go to “Duplex sensor (duplex wait) removal” on page 4-314.	Replace the connection.
4	Perform a 2 sided print test. Does the error still occur?	Replace the duplex controller card assembly. Go to “Duplex controller card assembly removal” on page 4-311. Go to step 5.	Problem solved.
5	Perform a 2 sided print test. Does the error still occur?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

231.00 Sensor (registration) on jam (duplex paper feed)

Step	Check	Yes	No
1	Check the paper position. Open the printer left door assembly, and visually check it. Does the paper touch the sensor (registration)?	Remove the paper.	Go to step 2.
2	Check the Duplex for proper installation. Remove duplex unit assembly, and reinstall it. Perform a two sided print test. Does the error still occur?	Go to step 3.	Problem solved.

Step	Check	Yes	No
3	Check the roll. Open the duplex left door assembly. Is the duplex media transport roll assembly free of excess wear and contamination?	Go to step 4.	Clean or replace the duplex media transport roll assembly. Go to “Duplex media transport rolls removal” on page 4-320.
4	Check the drive power transmission. Open the duplex left door assembly. Do the duplex media transport roll assembly and the other gears rotate smoothly?	Go to step 5.	Replace damaged components. Go to “Duplex media transport rolls removal” on page 4-320.
5	Check the roll. Open the duplex left door assembly. Is the duplex media transport center roll assembly free of excess wear and contamination?	Go to step 6.	Clean or replace the duplex media transport center roll assembly. Go to “Duplex media center transport roll removal” on page 4-321.
6	Check the drive power transmission. Open the duplex left door assembly. Do the duplex media transport center roll assembly and the other gears rotate smoothly?	Go to step 7.	Replace damaged components. Go to “Duplex media center transport roll removal” on page 4-321.
7	Check the duplex drive motor for proper operation. 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Printer Motor Test. 4. Touch Duplex drv mtr. Open the duplex left cover assembly. Does the above motor rotate properly?	Go to step 9.	Go to step 8.
8	Check the duplex drive motor for proper connection. Is the above motor connected properly?	Go to step 9.	Replace the connection.
9	Check the duplex controller card assembly and printer engine card assembly for proper connection. Are the connections on the duplex controller card assembly and the connector P417 on the printer engine card assembly connected?	Go to step 10.	Replace the connection.
10	Perform a 2 sided print test. Does the error still occur?	Replace the duplex controller card assembly. Go to “Duplex controller card assembly removal” on page 4-311. Go to step 14.	Problem solved.

Previous



Next



Go Back

Step	Check	Yes	No
14	Perform a 2 sided print test. Does the error still occur?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

Previous



Next



Go Back

231.01 Sensor (registration) on jam (duplex paper feed)

Step	Check	Yes	No
1	Check the paper position. Open the printer left door assembly, and visually check it. Does the paper touch the sensor (registration)?	Remove the paper.	Go to step 2.
2	Check the paper position. Open the duplex left door assembly, and visually check it. Does the paper touch the duplex wait actuator?	Remove the paper.	Go to step 3.
3	Check the duplex unit for proper installation. Remove the duplex unit assembly and reinstall it. Perform a two sided print test. Does the error still occur?	Go to step 4.	Problem solved.
4	Check the roll. Open the duplex left door assembly. Is the roll of the duplex media transport roll assembly free of excess wear and contamination?	Go to step 5.	Clean or replace the duplex media transport roll assembly. Go to “Duplex media transport rolls removal” on page 4-320.
5	Check the drive power transmission. Open the duplex left door assembly. Do the duplex media transport roll assembly and the other gears rotate smoothly?	Go to step 6.	Replace damaged components. Go to “Duplex media transport rolls removal” on page 4-320.
6	Check the roll. Open the duplex left door assembly. Is the roll of the duplex media center transport roll assembly free of excess wear and contamination?	Go to step 7.	Clean or replace the duplex media center transport roll assembly. Go to “Duplex media center transport roll removal” on page 4-321.

Step	Check	Yes	No
7	<p>Check the drive power transmission.</p> <p>Open the duplex left door assembly.</p> <p>Do the duplex media center transport roll assembly and the other gears rotate smoothly?</p>	Go to step 8.	<p>Replace damaged components.</p> <p>Go to “Duplex media center transport roll removal” on page 4-321.</p>
8	<p>Check the sensor (duplex wait) for proper operation.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch DUPLEX TESTS. 3. Touch Sensor Test. 4. Touch Duplex wait. <p>Open the duplex left door assembly.</p> <p>Does the display on the operator panel change every time the sensing area of the above sensor is blocked by the duplex wait actuator?</p>	Go to step 10.	Go to step 9.
9	<p>Check the sensor (duplex wait) for proper connection.</p> <p>Is the above sensor connected properly?</p>	Go to step 10.	Replace the connection.
10	<p>Check the duplex drive motor for proper operation.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Printer Motor Test. 4. Touch Duplex drv mtr. <p>Open the duplex left cover assembly.</p> <p>Does the above motor rotate properly?</p>	Go to step 12.	Go to step 11.
11	<p>Check the duplex drive motor assembly for proper connection.</p> <p>Is the above motor connected properly?</p>	<p>Replace the duplex drive motor.</p> <p>Go to “Duplex drive motor assembly removal” on page 4-308.</p>	Replace the connection.
12	<p>Check the duplex controller card assembly and printer engine card assembly for proper connection.</p> <p>Are the connections on the duplex controller card assembly and the connector P417 on the printer engine card assembly connected?</p>	Go to step 13.	Replace the connection.
13	<p>Perform a 2 sided print test.</p> <p>Does the error still occur?</p>	<p>Replace the duplex controller card assembly.</p> <p>Go to “Duplex controller card assembly removal” on page 4-311.</p> <p>Go to step 14.</p>	Problem solved.
14	<p>Perform a 2 sided print test.</p> <p>Does the error still occur?</p>	<p>Replace the printer engine card assembly.</p> <p>Go to “Printer engine card assembly removal” on page 4-119.</p>	Problem solved.

Previous



Next



Go Back

241.00 Sensor (pre-feed) on jam (tray 1 feed)

Step	Check	Yes	No
1	Check the media condition. Is the media in the tray crumpled or damaged?	Replace the damaged media with new.	Go to step 2.
2	Check the media size setup. Does the media size in use match the size set for tray 1?	Go to step 3.	Replace the media, or change the media size setup.
3	Check the rolls for tray 1. Remove tray 1, check it over. Are the feed roll, separation roll, and pick roll free of excess wear and contamination?	Go to step 4.	Clean or replace the feed roll, separating roll, or pick roll. Go to “Feed roll removal” on page 4-45 , “Separation roll removal” on page 4-49 , and “Pick roll removal” on page 4-51 .
4	Check the media position. Open the printer left door assembly, and visually check it. Does the media touch the sensor (pre-feed) in tray 1 media feed unit assembly?	Remove the media.	Go to step 5.
5	Check the sensor (pre-feed) for proper operation in tray 1. 1. Enter the Diagnostics Menu. 2. Touch INPUT TRAY TESTS . 3. Touch Sensor test . 4. Touch Tray 1 . 5. Touch Pre-feed . Remove the media tray assembly and check it. Does the display on the operator panel change every time a white piece of paper is placed over the sensing area?	Ensure the media feed unit front guide is installed properly. Go to step 7.	Go to step 6.
6	Check the sensor (pre-feed) connection. Is the sensor (pre-feed) properly connected?	Replace the sensor (pre-feed).	Replace the connection.
7	Check the media feed lift motor in tray 1 for proper operation. 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS . 3. Touch Printer motor tests . 4. Touch Tray 1 feed mtr . Pull out the tray 1, and check it. Does the media feed lift motor rotate normally?	Go to step 10.	Skip to step 9.
8	Check the media feed lift motor connection. Is the media feed lift motor properly connected?	Go to step 9.	Replace the connection.

Previous



Next



Go Back

Step	Check	Yes	No
9	<p>Check the media feed lift motor for proper operation of tray 1.</p> <p>Replace the media feed lift motor for tray 1 with one from tray 2.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Printer Motor Test. 4. Touch Tray 1 feed mtr. <p>Does the motor rotate normally?</p>	<p>Re-install the media feed lift motor for tray 2 as it previously was, and replace the tray 1 motor with a new one.</p> <p>Go to “Media feed lift motor removal” on page 4-33.</p>	Go to step 10.
10	<p>Perform a print test.</p> <p>Does the error continue?</p>	<p>Replace the printer engine card assembly.</p> <p>Go to “Printer engine card assembly removal” on page 4-119.</p>	Problem solved.

Previous



Next



Go Back

241.01 Sensor (registration) on jam (tray 1 feed)

Step	Check	Yes	No
1	<p>Check the media condition.</p> <p>Is the media in the tray crumpled or damaged?</p>	Replace with new media; ensure it is dry.	Go to step 2.
2	<p>Check the media size setup.</p> <p>Does the size of media in use match the size set for tray 1?</p>	Go to step 3.	Replace the media, or change the media size setup.
3	<p>Check the rolls for tray 1.</p> <p>Remove and check tray 1.</p> <p>Are the feed roll, separation roll, and pick roll free of excess wear and contamination?</p>	Go to step 4.	<p>Clean or replace the feed roll, separation roll, and pick roll.</p> <p>Go to “Feed roll removal” on page 4-45, “Separation roll removal” on page 4-49, and “Pick roll removal” on page 4-51.</p>
4	<p>Check the media position.</p> <p>Open the printer left door assembly, and visually check it.</p> <p>Does the media touch the sensor (registration) or the sensor (pre-feed) in tray 1 media feed unit assembly?</p>	Remove the media.	Go to step 5.



Step	Check	Yes	No
5	<p>Check the sensor (registration) for proper operation.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch BASE SENSOR TEST. 3. Touch Media Path. 4. Touch Registration. <p>Open the printer left door assembly.</p> <p>Does the display on the operator panel change every time the sensor actuator operates?</p>	Go to step 7.	Go to step 6.
6	<p>Check the sensor (registration) connection.</p> <p>Is the sensor (registration) properly connected?</p>	<p>Replace the sensor (registration).</p> <p>Go to “Sensor (registration) removal” on page 4-81.</p>	Replace the connection.
7	<p>Check the sensor (pre-feed) for proper operation in tray 1.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch INPUT TRAY TESTS. 3. Touch Sensor test. 4. Touch Tray 1. 5. Touch Pre-feed. <p>Remove the media tray assembly, and check it.</p> <p>Does the display on the operator panel change every time a white piece of paper is placed over the sensing area?</p>	<p>Ensure the media feed unit front guide is installed properly.</p> <p>Go to step 9.</p>	<p>Replace the sensor (pre-feed).</p> <p>Go to “Sensor (pre-feed) removal” on page 4-41.</p>
8	<p>Check the sensor (pre-feed) connection.</p> <p>Is the sensor (pre-feed) properly connected?</p>	<p>Replace the sensor (pre-feed).</p> <p>Go to “Sensor (pre-feed) removal” on page 4-41.</p>	Replace the connection.
9	<p>Perform a print test.</p> <p>Does the error continue?</p>	<p>Replace the printer engine card assembly.</p> <p>Go to “Printer engine card assembly removal” on page 4-119.</p>	Problem solved.

242.00 Sensor (pre-feed) on jam (tray 2 feed)

Step	Check	Yes	No
1	<p>Check the media condition.</p> <p>Is the media in the tray crumpled or damaged?</p>	Replace the media with new media; ensure it is dry.	Go to step 2.
2	<p>Check the media size setup.</p> <p>Does the media size in use match the size set for tray 2?</p>	Go to step 3.	Replace the media, or change the media size setup.

Step	Check	Yes	No
3	Check the rolls for tray 2. Remove tray 2 and check it. Are the feed roll, separation roll, and pick roll free of excess wear and contamination?	Go to step 4.	Clean or replace the feed roll, separation roll, and pick roll. Go to “Feed roll removal” on page 4-45 , “Separation roll removal” on page 4-49 , and “Pick roll removal” on page 4-51 .
4	Check the media position. Open the printer left lower door assembly, and visually check it. Does the media touch the sensor (pre-feed) in the tray 2 media feed unit?	Remove the media.	Go to step 5.
5	Check the sensor (pre-feed) in tray 2 for proper operation. 1. Enter the Diagnostics Menu. 2. Touch INPUT TRAY TESTS . 3. Touch Sensor test . 4. Touch Tray 2 . 5. Touch Pre-feed . Remove the media tray assembly, and check it. Does the display on the operator panel change every time a white piece of paper is placed over the sensing area?	Ensure the media feed unit front guide is installed properly. Go to step 7.	Go to step 6.
6	Check the sensor (pre-feed) connection. Is the sensor (pre-feed) properly connected?	Replace the sensor (pre-feed). Go to “Sensor (pre-feed) removal” on page 4-41 .	Replace the connection. Go to “Sensor (pre-feed) removal” on page 4-41 .
7	Check the media feed lift motor in tray 2 for proper operation. 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS . 3. Touch Printer Motor Test . 4. Touch Tray 2 feed mtr . Pull out the tray 2, and check it. Does the media feed lift motor rotate normally.	Go to step 10.	Go to step 8.
8	Check the media feed lift motor connection. Is the media feed lift motor properly connected?	Go to step 9.	Replace the connection. Go to “Sensor (pre-feed) removal” on page 4-41 .

Previous



Next



Go Back

Step	Check	Yes	No
9	<p>Check the media feed lift motor in tray 2 for proper operation.</p> <p>Replace the media feed lift motor for tray 2 with the one from tray 1.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Printer Motor Test. 4. Touch Tray 2 feed mtr. <p>Does the media feed lift motor rotate normally?</p>	<p>Install the media feed lift motor for tray 1 as it previously was, and replace the motor for tray 2 with a new motor.</p> <p>Go to “Media feed lift motor removal” on page 4-33.</p>	Go to step 10.
10	<p>Perform a print test.</p> <p>Does the error continue?</p>	<p>Replace the printer engine card assembly.</p> <p>Go to “Printer engine card assembly removal” on page 4-119.</p>	Problem solved.

Previous



Next



Go Back

242.01 Sensor (tray 2 feed-out) on jam (tray 2 feed)

Step	Check	Yes	No
1	<p>Check the media condition.</p> <p>Is the media in the tray crumpled or damaged?</p>	Replace the media with new media; ensure it is dry.	Go to step 2.
2	<p>Check the media size setup.</p> <p>Does the media size in use match the size set for tray 2?</p>	Go to step 2.	Replace the media, or change the media size setup.
3	<p>Check the rolls for tray 2.</p> <p>Pull out the tray 2, and check it.</p> <p>Open the printer left lower door assembly, and visually check it.</p> <p>Are the feed roll, separation roll, and pick roll free of excess wear and contamination?</p>	Go to step 4.	<p>Clean or replace the feed roll, separation roll, and pick roll.</p> <p>Go to “Feed roll removal” on page 4-45, “Separation roll removal” on page 4-49, and “Pick roll removal” on page 4-51.</p>
4	<p>Check the media position.</p> <p>Does the media touch the sensor (tray 2 feed-out) or the tray 2 media feed unit?</p>	Remove the media.	Go to step 5.

Step	Check	Yes	No
5	<p>Check the sensor (tray 2 feed-out) for proper operation.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch INPUT TRAY TESTS. 3. Touch Sensor test. 4. Touch Tray 2. 5. Touch Media out. <p>Open the printer left lower door assembly and check it.</p> <p>Does the display on the operator panel change every time a white piece of paper is placed over the sensing area?</p>	Go to step 7.	Go to step 6.
6	<p>Check the sensor (tray 2 feed-out) connection.</p> <p>Is the sensor (tray 2 feed-out) properly connected?</p>	<p>Replace the sensor (tray 2 feed-out).</p> <p>Go to “Sensor (tray 2 feed-out) removal” on page 4-83.</p>	Replace the connection.
7	<p>Check the sensor (pre-feed), in tray 2, for proper operation.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch INPUT TRAY TESTS. 3. Touch Sensor test. 4. Touch Tray 2. 5. Touch Pre-feed. <p>Remove the media tray assembly and check it.</p> <p>Does the display on the operator panel change every time a white piece of paper is placed over the sensing area?</p>	<p>Ensure the media feed unit front guide is installed properly.</p> <p>Go to step 9.</p>	Replace the sensor (pre-feed).
8	<p>Check the sensor (pre-feed) connection.</p> <p>Is the sensor (pre-feed) properly connected?</p>	Replace the sensor (pre-feed).	Replace the connection.
9	<p>Check the MPF/transport drive motor.</p> <p>Perform the MPF/transport drive motor test.</p> <p>Open the ADF left cover assembly.</p> <p>Remove the rear motor cover. Go to “Rear motor cover removal” on page 4-11.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Printer Motor Tests. 4. Touch MPF/Transport mtr. <p>Does the MPF/transport motor operate properly?</p>	Go to step 11.	Go to step 10.
10	<p>Check the MPF/transport drive motor for connection.</p> <p>Is the above motor connected properly?</p>	<p>Replace the MPF/transport drive motor.</p> <p>Go to “MPF/transport drive motor assembly removal” on page 4-82.</p>	Replace the connection.

Previous



Next



Go Back

Step	Check	Yes	No
11	Perform a print test. Does the error continue?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

Previous



Next



Go Back

242.02 Sensor (registration) on jam (tray 2 feed)

Step	Check	Yes	No
1	Check the media condition. Is the media in the tray, crumpled or damaged?	Replace the media with new; ensure it is dry.	Go to step 2.
2	Check the media size setup. Does the media size in use match the size set for tray 2?	Go to step 3.	Replace the media, or change the media size setup.
3	Check the roll for tray 2. Remove tray 2, and check it. Are the feed roll, separation roll, and pick roll free of excess wear and contamination?	Go to step 4.	Clean or replace the feed roll, separation roll, and pick roll. Go to “Feed roll removal” on page 4-45, “Separation roll removal” on page 4-49, and “Pick roll removal” on page 4-51.
4	Check the media position. Open the printer left door assembly, and visually check it. Does the media touch the sensor (registration)?	Remove the media.	Go to step 5.
5	Check the media position. Open the printer left lower door assembly, and check it. Does the media touch the sensor (tray 2 feed-out)?	Remove the media.	Go to step 6.
6	Check the sensor (registration) for proper operation. Open the printer left door assembly, and check it. 1. Enter the Diagnostics Menu. 2. Touch BASE SENSOR TEST. 3. Touch Media Path. 4. Touch Registration. Open the printer left door assembly, and check it. Does the display on the operator panel change every time the sensor actuator is operated?	Go to step 8.	Go to step 7.

Step	Check	Yes	No
7	<p>Check the sensor (registration) connection. Is the sensor (registration) properly connected?</p>	<p>Replace the sensor (registration). Go to “Sensor (registration) removal” on page 4-81.</p>	<p>Replace the connection.</p>
8	<p>Check the sensor (tray 2 feed-out) for proper operation.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch INPUT TRAY TESTS. 3. Touch Sensor Test. 4. Touch Tray 2. 5. Touch Feed-out. <p>Open the printer left lower door assembly, and check it. Does the display on the operator panel change every time a white piece of paper is placed over the sensing area?</p>	<p>Go to step 10.</p>	<p>Go to step 9.</p>
9	<p>Check the sensor (tray 2 feed-out) connection. Is the sensor (tray 2 feed-out) properly connected?</p>	<p>Replace the sensor (tray 2 feed-out). Go to “Sensor (tray 2 feed-out) removal” on page 4-83.</p>	<p>Replace the sensor (tray 2 feed-out).</p>
10	<p>Check the MPF/transport drive motor. Perform the MPF/transport drive motor test. Open the ADF left cover assembly. Remove the rear motor cover. Go to “Rear motor cover removal” on page 4-11.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Printer Motor Tests. 4. Touch MPF/Transport mtr. <p>Does the MPF/transport motor operate properly?</p>	<p>Go to step 12.</p>	<p>Go to step 11.</p>
11	<p>Check the MPF/transport drive motor for connection. Is the above motor connected properly?</p>	<p>Replace the MPF/transport drive motor. Go to “MPF/transport drive motor assembly removal” on page 4-82.</p>	<p>Replace the connection.</p>
12	<p>Perform a print test. Does the error continue?</p>	<p>Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.</p>	<p>Problem solved.</p>

Previous



Next



Go Back

242.03 Sensor (tray 2 feed-out) static jam

Step	Check	Yes	No
1	Check the media position. Does the media touch the sensor (tray 2 feed-out)? Open the printer left lower door assembly, and visually check it.	Remove the media.	Go to step 2.
2	Check the sensor (tray 2 feed-out) for proper operation. 1. Enter the Diagnostics Menu. 2. Touch INPUT TRAY TESTS . 3. Touch Sensor Test . 4. Touch Tray 2 . 5. Touch Feed-out . Open the printer left lower door assembly, and check it. Does the display on the operator panel change every time a white piece of paper is placed over the sensing area?	Go to step 4.	Go to step 3
3	Check the sensor (tray 2 feed-out) connection. Is the sensor (tray 2 feed-out) properly connected?	Replace the sensor (tray 2 feed-out).	Replace the connection.
4	Perform a print test. Does the error continue?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

Previous



Next



Go Back

243.00 Sensor (pre-feed) on jam (tray 3 media feed)

Step	Check	Yes	No
1	Check the media condition. Is the media in the tray crumpled or damaged?	Replace the media.	Go to step 2.
2	Check the media size setup. Does the media size in use match the size set for tray 3?	Go to step 3.	Replace the media, or change the media size setup.
3	Check the tray 3 rolls. Pull out the tray 3, and check it. Are the feed roll, separation roll, and pick roll for transport free of excess wear and contamination?	Go to step 4.	Clean or replace the feed roll, separation roll, and pick roll. Go to “2000-sheet dual input (TTM)—feed roll removal” on page 4-266 , “2000-sheet dual input (TTM)—separation roll removal” on page 4-270 , and “2000-sheet dual input (TTM)—pick roll removal” on page 4-273.

Step	Check	Yes	No
4	<p>Check the media position.</p> <p>Open the 2TM/TTM left door assembly, and visually check it.</p> <p>Does the media touch the sensor (pre-feed) of the tray 3 media feed unit assembly?</p>	Remove the media.	Go to step 5.
5	<p>Check the tray 3 sensor (pre-feed) for proper operation.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch INPUT TRAY TESTS. 3. Touch Sensor Test. 4. Touch Tray 3. 5. Touch Feed-out. <p>Remove the media tray assembly.</p> <p>Does the display on the operator panel change every time a white piece of paper is placed over the sensing area of the above sensor?</p>	Go to step 7.	Go to step 6.
6	<p>Check the tray 3 sensor (pre-feed) for proper connection.</p> <p>Is the above sensor connected properly?</p>	<p>Replace the sensor (pre-feed).</p> <p>Go to “2000-sheet dual input (TTM)—sensor (pre-feed) removal” on page 4-263.</p>	Replace the connection.
7	<p>Check the connection between the 2TM/TTM controller card assembly and the printer engine card assembly.</p> <p>Are the above cards connected properly?</p>	Go to step 8.	Replace the connection.
8	<p>Check the tray 3 media feed lift motor for proper operation.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Printer Motor Test. 4. Touch Tray 3 feed mtr. <p>Does the above motor rotate normally?</p>	Go to step 11.	Go to step 9.
9	<p>Check the tray 3 media feed lift motor for proper connection.</p> <p>Is the above motor connected properly?</p>	Go to step 10.	Replace the connection.
10	<p>Check the tray 3 media feed lift motor for proper operation.</p> <p>Replace the media feed lift motor for tray 3 with that from tray 4.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Printer Motor Test. 4. Touch Tray 3 feed mtr. <p>Does the above motor rotate normally?</p>	<p>Reinstall the media feed lift motor for tray 4 as it previously was, and replace the media feed lift motor for tray 3 with a new one.</p> <p>Go to “2000-sheet dual input (TTM)—media feed lift motor removal” on page 4-255.</p>	<p>Replace the 2TM/TTM controller card assembly.</p> <p>Go to “2000-sheet dual input (TTM)—2TM/TTM controller card assembly removal” on page 4-281.</p>

Previous



Next



Go Back

Step	Check	Yes	No
11	Perform a print test. Does the error still occur?	Replace the 2TM/ TTM controller card assembly. Go to “2000-sheet dual input (TTM)— 2TM/TTM controller card assembly removal” on page 4-281 . Go to step 12.	Problem solved.
12	Perform a print test. Does the error still occur?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119 .	Problem solved.

Previous



Next



Go Back

243.01 Sensor (tray 3 feed-out) on jam (tray 3 media feed)

Step	Check	Yes	No
1	Check the media condition. Is the media in the tray crumpled or damaged?	Replace the media.	Go to step 2.
2	Check the media size setup. Does the media size in use match the size set for tray 3?	Go to step 3.	Replace the media, or change the media size setup.
3	Check the tray 3 rolls. Pull out the tray 3, and check it. Are the feed roll, separation roll, and pick roll for transport free of excess wear and contamination?	Go to step 4.	Clean or replace the feed roll, separation roll, and pick roll. Go to “2000-sheet dual input (TTM)— feed roll removal” on page 4-266 , “2000-sheet dual input (TTM)— separation roll removal” on page 4-270 , and “2000-sheet dual input (TTM)—pick roll removal” on page 4-273 .
4	Check the media position. Open the 2TM/TTM left door assembly, and visually check it. Does the media touch the tray 3 feed-out sensor or the sensor (pre-feed) of the tray 3 media feed unit assembly?	Remove the media.	Go to step 5.

Step	Check	Yes	No
5	<p>Check the sensor (tray 3 feed-out) for proper operation.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch INPUT TRAY TESTS. 3. Touch Sensor Test. 4. Touch Tray 3. 5. Touch Feed-out. <p>Open the 2TM/TTM left door assembly, and visually check it.</p> <p>Does the display on the operator panel change every time the actuator on the above sensor operates?</p>	Go to step 7.	Go to step 6.
6	<p>Check the sensor (tray 3 feed-out) for proper connection.</p> <p>Is the above sensor connected properly?</p>	<p>Replace the sensor (tray 3 feed-out).</p> <p>Go to “2000-sheet dual input (TTM)—sensor (tray 3 feed-out) removal” on page 4-254.</p>	Replace the connection.
7	<p>Check the connection between the 2TM/TTM controller card assembly and the printer engine card assembly.</p> <p>Are the above cards connected properly?</p>	Go to step 8.	Replace the connection.
8	<p>Check the tray 3 sensor (pre-feed) for proper operation.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch INPUT TRAY TESTS. 3. Touch Sensor Test. 4. Touch Tray 3. 5. Touch Feed-out. <p>Remove the media tray assembly.</p> <p>Does the display on the operator panel change every time a white piece of paper is placed over the sensing area of the above sensor?</p>	Go to step 10.	Go to step 9.
9	<p>Check the tray 3 sensor (pre-feed) for proper connection.</p> <p>Is the above sensor connected properly?</p>	<p>Replace the sensor (pre-feed).</p> <p>Go to “2000-sheet dual input (TTM)—sensor (pre-feed) removal” on page 4-263.</p>	Replace the connection.
10	<p>Perform a print test.</p> <p>Does the error still occur?</p>	<p>Replace the 2TM/TTM controller card assembly.</p> <p>Go to “2000-sheet dual input (TTM)—2TM/TTM controller card assembly removal” on page 4-281.</p> <p>Go to step 11.</p>	Problem solved.

Previous



Next



Go Back

Step	Check	Yes	No
11	Perform a print test. Does the error still occur?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

Previous



Next



Go Back

243.02 Sensor (tray 2 feed-out) on jam (tray 3 media feed)

Step	Check	Yes	No
1	Check the media condition. Is the media in the tray crumpled or damaged?	Replace the media.	Go to step 2.
2	Check the media size setup. Does the media size in use match the size set for tray 3?	Go to step 3.	Replace the media, or change the media size setup.
3	Check the tray 3 rolls. Pull out the tray 3, and check it. Are the feed roll, separation roll, and pick roll for transport free of excess wear and contamination?	Go to step 4.	Clean or replace the feed roll, separation roll, and pick roll. Go to “2000-sheet dual input (TTM)—feed roll removal” on page 4-266, “2000-sheet dual input (TTM)—separation roll removal” on page 4-270, and “2000-sheet dual input (TTM)—pick roll removal” on page 4-273.
4	Check the media position. Open the printer left lower door assembly, and visually check it. Does the media touch the sensor (tray 2 feed-out)?	Remove the media.	Go to step 5.
5	Check the media position. Open the 2TM/TTM left door assembly, and visually check it. Does the media touch the sensor (tray 3 feed-out)?	Remove the media.	Go to step 6.
6	Check the sensor (tray 2 feed-out) for proper operation. 1. Enter the Diagnostics Menu. 2. Touch INPUT TRAY TESTS. 3. Touch Sensor Test. 4. Touch Tray 2. 5. Touch Feed-out. Open the printer left lower door assembly, and visually check it. Does the display on the operator panel change every time a white piece of paper is placed over the sensing area of the above sensor?	Go to step 8.	Go to step 7.

Step	Check	Yes	No
7	Check the sensor (tray 2 feed-out) for proper connection. Is the above sensor connected properly?	Replace the sensor (tray 2 feed-out). Go to “Sensor (tray 2 feed-out) removal” on page 4-83.	Replace the connection.
8	Check the sensor (tray 3 feed-out) for proper operation. 1. Enter the Diagnostics Menu. 2. Touch INPUT TRAY TESTS. 3. Touch Sensor Test. 4. Touch Tray 3. 5. Touch Feed-out. Open the 2TM/TTM left door assembly, and visually check it. Does the display on the operator panel change every time the actuator on the above sensor operates?	Go to step 10.	Go to step 9.
9	Check the sensor (tray 3 feed-out) for proper connection. Is the above sensor connected properly?	Replace the sensor (tray 3 feed-out). Go to “2000-sheet dual input (TTM)—sensor (tray 3 feed-out) removal” on page 4-254.	Replace the connection.
10	Check the 2TM/TTM controller card assembly and the printer engine card assembly for proper connection. Are connectors P541 and P413 on the above cards connected properly?	Go to step 11.	Replace the connection.
11	Perform a print test. Does the error still occur?	Replace the 2TM/TTM controller card assembly. Go to “2000-sheet dual input (TTM)—2TM/TTM controller card assembly removal” on page 4-281. Go to step 11.	Problem solved.
12	Perform a print test. Does the error still occur?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

Previous



Next



Go Back

243.03 Sensor (registration) on jam (tray 3 media feed)

Step	Check	Yes	No
1	Check the media condition. Is the media in the tray crumpled or damaged?	Replace the media.	Go to step 2.

Step	Check	Yes	No
2	Check the media size setup. Does the media size in use match the size set for tray 3?	Go to step 3.	Replace the media, or change the media size setup.
3	Check the tray 3 rolls. Pull out the tray 3, and check it. Are the feed roll, separation roll, and pick roll for transport free of excess wear and contamination?	Go to step 4.	Clean or replace the feed roll, separation roll, and pick roll. Go to “2000-sheet dual input (TTM)—feed roll removal” on page 4-266, “2000-sheet dual input (TTM)—separation roll removal” on page 4-270, and “2000-sheet dual input (TTM)—pick roll removal” on page 4-273.
4	Check the media position. Open the printer left door assembly, and visually check it. Does the media touch the sensor (registration)?	Remove the media.	Go to step 5.
5	Check the media position. Open the 2TM/TTM left door assembly, and visually check it. Does the media touch the sensor (tray 3 feed-out)?	Remove the media.	Go to step 6.
6	Check the sensor (registration) for proper operation. 1. Enter the Diagnostics Menu. 2. Touch BASE SENSOR TEST . 3. Touch Media Path . 4. Touch Registration . Open the printer left door assembly, and visually check it. Does the display on the operator panel change every time the actuator on the above sensor operates?	Go to step 8.	Go to step 7.
7	Check the sensor (registration) for proper connection. Is the above sensor connected properly?	Replace the sensor (registration). Go to “Sensor (registration) removal” on page 4-81.	Replace the connection.
8	Check the sensor (tray 3 feed-out) for proper operation. 1. Enter the Diagnostics Menu. 2. Touch INPUT TRAY TESTS . 3. Touch Sensor Test . 4. Touch Tray 3 . 5. Touch Feed-out . Open the 2TM/TTM left door assembly, and visually check it. Does the display on the operator panel change every time the actuator on the above sensor operates?	Go to step 10.	Go to step 9.

Previous



Next



Go Back

Step	Check	Yes	No
9	Check the sensor (tray 3 feed-out) for proper connection. Is the above sensor connected properly?	Replace the sensor (tray 3 feed-out). Go to “2000-sheet dual input (TTM)—sensor (tray 3 feed-out) removal” on page 4-254.	Replace the connection.
10	Check the connection between the 2TM/TTM controller card assembly and the printer engine card assembly. Are the above boards connected properly?	Go to step 11.	Replace the connection.
11	Perform a print test. Does the error still occur?	Replace the 2TM/TTM controller card assembly. Go to “2000-sheet dual input (TTM)—2TM/TTM controller card assembly removal” on page 4-281. Go to step 12.	Problem solved.
12	Perform a print test. Does the error still occur?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

Previous



Next



Go Back

243.04 Sensor (tray 3 feed-out) static jam

Step	Check	Yes	No
1	Check the media position. Does the media touch the sensor (tray 3 feed-out)? Open the 2TM/TTM left door assembly, and visually check it.	Remove the media.	Go to step 2.
2	Check the sensor (tray 3 feed-out) for proper operation. 1. Enter the Diagnostics Menu. 2. Touch INPUT TRAY TESTS. 3. Touch Sensor Test. 4. Touch Tray 3. 5. Touch Feed-out. Open the 2TM/TTM left door assembly, and visually check it. Does the display on the operator panel change every time the actuator on the above sensor operates?	Go to step 4.	Go to step 3.

Step	Check	Yes	No
3	Check the sensor (tray 3 feed-out) for proper connection. Is the above sensor connected properly?	Replace the sensor (tray 3 feed-out). Go to “2000-sheet dual input (TTM)—sensor (tray 3 feed-out) removal” on page 4-254.	Replace the connection.
4	Perform a print test. Does the error still occur?	Replace the 2TM/TTM controller card assembly. Go to “2000-sheet dual input (TTM)—2TM/TTM controller card assembly removal” on page 4-281. Go to step 5.	Problem solved.
5	Perform a print test. Does the error still occur?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

Previous



Next



Go Back

244.00 Sensor (tray 4 feed-out) on jam (tray 4 media feed)

Step	Check	Yes	No
1	Check the media condition. Is the media in the tray, crumpled or damaged?	Replace the media.	Go to step 2.
2	Check the media size setup. Does the media size in use match the size set for tray 4?	Go to step 3.	Replace the media, or change the media size setup.
3	Check the tray 4 rolls. Pull out the tray 4, and check it. Are the feed roll, separation roll, and pick roll for transport free of excess wear and contamination?	Go to step 4.	Clean or replace the feed roll, separation roll, and pick roll. Go to “2000-sheet dual input (TTM)—feed roll removal” on page 4-266, “2000-sheet dual input (TTM)—separation roll removal” on page 4-270, and “2000-sheet dual input (TTM)—pick roll removal” on page 4-273.
4	Check the media position. Open the 2TM/TTM left door assembly, and visually check it. Does the media touch the sensor (pre-feed) of the tray 4 media feed unit assembly or the sensor (tray 4 feed-out)?	Remove the media.	Go to step 5.

Step	Check	Yes	No
5	<p>Check the tray 4 sensor (pre-feed) for proper operation.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch INPUT TRAY TESTS. 3. Touch Sensor Test. 4. Touch Tray 4. 5. Touch Feed-out. <p>Remove the media tray assembly.</p> <p>Does the display on the operator panel change every time a white piece of paper is placed over the sensing area of the above sensor?</p>	Go to step 7.	Go to step 6.
6	<p>Check the tray 4 sensor (pre-feed) for proper connection.</p> <p>Is the above sensor connected properly?</p>	<p>Replace the sensor (pre-feed).</p> <p>Go to “2000-sheet dual input (TTM)—sensor (pre-feed) removal” on page 4-263.</p>	Replace the connection.
7	<p>Check the connection between the 2TM/TTM controller card assembly and the printer engine card assembly.</p> <p>Are the above cards connected properly?</p>	Go to step 8.	Replace the connection.
8	<p>Check the sensor (tray 4 feed-out) for proper operation.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch INPUT TRAY TESTS. 3. Touch Sensor Test. 4. Touch Tray 4. 5. Touch Feed-out. <p>Open the 2TM/TTM left door assembly, and visually check it.</p> <p>Does the display on the operator panel change every time the actuator on the above sensor operates?</p>	Go to step 10.	Go to step 9.
9	<p>Check the sensor (tray 4 feed-out) for proper connection.</p> <p>Is the above sensor connected properly?</p>	<p>Replace the sensor (tray 4 feed-out).</p> <p>Go to “2000-sheet dual input (TTM)—sensor (tray 4 feed-out) removal” on page 4-248.</p>	Replace the connection.

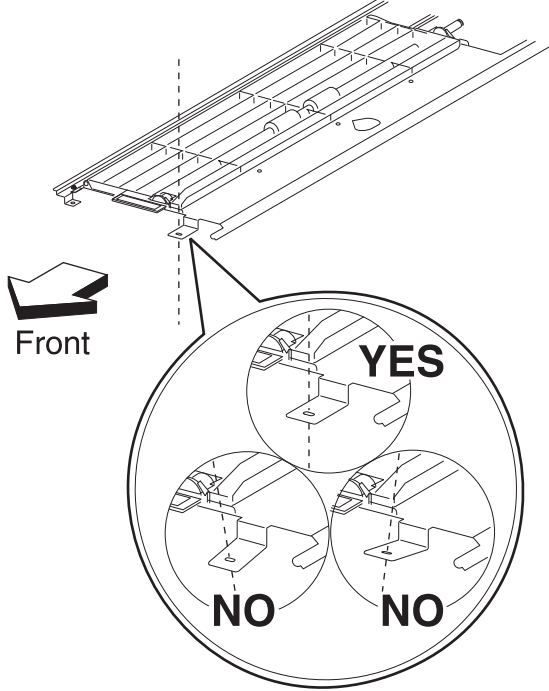
Previous



Next



Go Back

Step	Check	Yes	No
10	<p>Remove the tray 4 media transport assembly from the TTM.</p> <p>Go to “2000-sheet dual input (TTM)—tray 4 media transport assembly removal” on page 4-236.</p> <p>Inspect the metal tab on the tray 4 media transport assembly as shown in the graphic below.</p>  <p>Is the metal tab on the tray 4 media transport assembly bent?</p>	<p>Straighten the metal tab with needle nose pliers, or replace the tray 4 media transport assembly.</p> <p>Go to “2000-sheet dual input (TTM)—tray 4 media transport assembly removal” on page 4-236.</p>	Go to step 11.
11	<p>Perform a print test.</p> <p>Does the error still occur?</p>	<p>Replace the 2TM/TTM controller card assembly.</p> <p>Go to “2000-sheet dual input (TTM)—2TM/TTM controller card assembly removal” on page 4-281.</p> <p>Go to step 12.</p>	Problem solved.
12	<p>Perform a print test.</p> <p>Does the error still occur?</p>	<p>Replace the printer engine card assembly.</p> <p>Go to “Printer engine card assembly removal” on page 4-119.</p>	Problem solved.

Previous



Next



Go Back

244.01 Sensor (tray 3 feed-out) on jam (tray 4 media feed)

Step	Check	Yes	No
1	Check the media condition. Is the media in the tray, crumpled or damaged?	Replace the media.	Go to step 2.
2	Check the media size setup. Does the media size in use match the size set for tray 4?	Go to step 3.	Replace the media, or change the media size setup.
3	Check the tray 4 rolls. Pull out the tray 4, and check it. Are the feed roll, separation roll, and pick roll for transport free of excess wear and contamination?	Go to step 4.	Clean or replace the feed roll, separation roll, and pick roll. Go to “2000-sheet dual input (TTM)—feed roll removal” on page 4-266 , “2000-sheet dual input (TTM)—separation roll removal” on page 4-270 , and “2000-sheet dual input (TTM)—pick roll removal” on page 4-273 .
4	Check the media position. Open the 2TM/TTM left door assembly, and visually check it. Does the media touch the sensor (tray 3 feed-out) or the sensor (tray 4 feed-out)?	Remove the media.	Go to step 5.
5	Check the sensor (tray 4 feed-out) for proper operation. 1. Enter the Diagnostics Menu. 2. Touch INPUT TRAY TESTS . 3. Touch Sensor Test . 4. Touch Tray 4 . 5. Touch Feed-out . Open the 2TM/TTM left door assembly, and visually check it. Does the display on the operator panel change every time the actuator on the above sensor operates?	Go to step 7.	Go to step 6.
6	Check the sensor (tray 4 feed-out) for proper connection. Is the above sensor connected properly?	Replace the sensor (tray 4 feed-out). Go to “2000-sheet dual input (TTM)—sensor (tray 4 feed-out) removal” on page 4-248 .	Replace the connection.
7	Check the connection between the 2TM/TTM controller card assembly and the printer engine card assembly. Are the above cards connected properly?	Go to step 8.	Replace the connection.

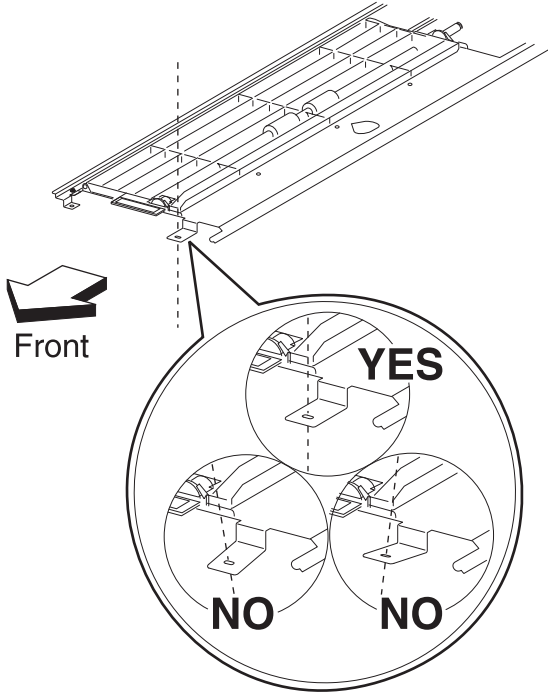
Previous



Next



Go Back

Step	Check	Yes	No
8	<p>Check the sensor (tray 3 feed-out) for proper operation.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch INPUT TRAY TESTS. 3. Touch Sensor Test. 4. Touch Tray 3. 5. Touch Feed-out. <p>Open the 2TM/TTM left door assembly, and visually check it.</p> <p>Does the display on the operator panel change every time the actuator on the above sensor operates?</p>	Go to step 10.	Go to step 9.
9	<p>Check the sensor (tray 3 feed-out) for proper connection.</p> <p>Is the above sensor connected properly?</p>	<p>Replace the sensor (tray 3 feed-out).</p> <p>Go to “2000-sheet dual input (TTM)—sensor (tray 3 feed-out) removal” on page 4-254.</p>	Replace the connection.
10	<p>Remove the tray 4 media transport assembly from the TTM.</p> <p>Go to “2000-sheet dual input (TTM)—tray 4 media transport assembly removal” on page 4-236.</p> <p>Inspect the metal tab on the tray 4 media transport assembly as shown in the graphic below.</p>  <p>Is the metal tab on the tray 4 media transport assembly bent?</p>	<p>Straighten the metal tab with needle nose pliers, or replace the tray 4 media transport assembly.</p> <p>Go to “2000-sheet dual input (TTM)—tray 4 media transport assembly removal” on page 4-236.</p>	Go to step 11.

Previous



Next



Go Back

Step	Check	Yes	No
11	Perform a print test. Does the error still occur?	Replace the 2TM/ TTM controller card assembly. Go to “2000-sheet dual input (TTM)— 2TM/TTM controller card assembly removal” on page 4-281. Go to step 12.	Problem solved.
12	Perform a print test. Does the error still occur?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

Previous



Next



Go Back

244.02 Sensor (tray 2 feed-out) on jam (tray 4 media feed)

Step	Check	Yes	No
1	Check the media condition. Is the media in the tray crumpled or damaged?	Replace the media.	Go to step 2.
2	Check the media size setup. Does the media size in use match the size set for tray 4?	Go to step 3.	Replace the media, or change the media size setup.
3	Check the tray 4 rolls. Pull out the tray 4, and check it. Are the feed roll, separation roll, and pick roll for transport free of excess wear and contamination?	Go to step 4.	Clean or replace the feed roll, separation roll, and pick roll. Go to “2000-sheet dual input (TTM)— feed roll removal” on page 4-266, “2000-sheet dual input (TTM)— separation roll removal” on page 4-270, and “2000-sheet dual input (TTM)—pick roll removal” on page 4-273.
4	Check the media position. Open the printer left lower door assembly, and visually check it. Does the media touch the sensor (tray 2 feed-out)?	Remove the media.	Go to step 5.
5	Check the media position. Open the 2TM/TTM left door assembly, and visually check it. Does the media touch the sensor (tray 4 feed-out)?	Remove the media.	Go to step 6.

Step	Check	Yes	No
6	<p>Check the sensor (tray 2 feed-out) for proper operation.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch INPUT TRAY TESTS. 3. Touch Sensor Test. 4. Touch Tray 2. 5. Touch Feed-out. <p>Open the printer left lower door assembly, and visually check it.</p> <p>Does the display on the operator panel change every time a white piece of paper is placed over the sensing area of the above sensor?</p>	Go to step 8.	Go to step 7.
7	<p>Check the sensor (tray 2 feed-out) for proper connection.</p> <p>Is the above sensor connected properly?</p>	<p>Replace the sensor (tray 2 feed-out).</p> <p>Go to “Sensor (tray 2 feed-out) removal” on page 4-83.</p>	Replace the connection.
8	<p>Check the sensor (tray 4 feed-out) for proper operation.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch INPUT TRAY TESTS. 3. Touch Sensor Test. 4. Touch Tray 4. 5. Touch Feed-out. <p>Open the 2TM/TTM left door assembly, and visually check it.</p> <p>Does the display on the operator panel change every time the actuator on the above sensor operates?</p>	Go to step 10.	Go to step 9.
9	<p>Check the sensor (tray 4 feed-out) for proper connection.</p> <p>Is the above sensor connected properly?</p>	<p>Replace the sensor (tray 3 feed-out).</p> <p>Go to “2000-sheet dual input (TTM)—sensor (tray 3 feed-out) removal” on page 4-254.</p>	Replace the connection.
10	<p>Check the connection between the 2TM/TTM controller card assembly and the printer engine card assembly.</p> <p>Are the above cards connected properly?</p>	Go to step 11.	Replace the connection.
11	<p>Perform a print test.</p> <p>Does the error still occur?</p>	<p>Replace the 2TM/TTM controller card assembly.</p> <p>Go to “2000-sheet dual input (TTM)—2TM/TTM controller card assembly removal” on page 4-281.</p> <p>Go to step 12.</p>	Problem solved.

Previous



Next



Go Back

Step	Check	Yes	No
12	Perform a print test. Does the error still occur?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

Previous



Next



Go Back

244.03 Sensor (registration) on jam (tray 4 media feed)

Step	Check	Yes	No
1	Check the media condition. Is the media in the tray crumpled or damaged?	Replace the media.	Go to step 2.
2	Check the media size setup. Does the media size in use match the size set for tray 4?	Go to step 3.	Replace the media, or change the media size setup.
3	Check the tray 4 rolls. Pull out the tray 4, and check it. Are the feed roll, separation roll, and pick roll for transport free of excess wear and contamination?	Go to step 4.	Clean or replace the feed roll, separation roll, and pick roll. Go to “2000-sheet dual input (TTM)—feed roll removal” on page 4-266, “2000-sheet dual input (TTM)—separation roll removal” on page 4-270, and “2000-sheet dual input (TTM)—pick roll removal” on page 4-273.
4	Check the media position (1). Open the printer left door assembly, and visually check it. Does the media touch the sensor (registration)?	Remove the media.	Go to step 5.
5	Check the media position (2). Open the 2TM/TTM left door assembly, and visually check it. Does the media touch the sensor (tray 4 feed-out)?	Remove the media.	Go to step 6.
6	Check the sensor (registration) for proper operation. 1. Enter the Diagnostics Menu. 2. Touch BASE SENSOR TEST. 3. Touch Media Path. 4. Touch Registration. Open the printer left door assembly, and visually check it. Does the display on the operator panel change every time the actuator on the above sensor operates?	Go to step 8.	Go to step 7.

Step	Check	Yes	No
7	Check the sensor (registration) for proper connection. Is the above sensor connected properly?	Replace the sensor (registration). Go to “Sensor (registration) removal” on page 4-81.	Replace the connection.
8	Check the sensor (tray 4 feed-out) for proper operation. 1. Enter the Diagnostics Menu. 2. Touch INPUT TRAY TESTS. 3. Touch Sensor Test. 4. Touch Tray 4. 5. Touch Feed-out. Open the 2TM/TTM left door assembly, and visually check it. Does the display on the operator panel change every time the actuator on the above sensor operates?	Go to step 10.	Go to step 9.
9	Check the sensor (tray 4 feed-out) for proper connection. Is the above sensor connected properly?	Replace the sensor (tray 4 feed-out). Go to “2000-sheet dual input (TTM)—sensor (tray 4 feed-out) removal” on page 4-248.	Replace the connection.
10	Check the connection between the 2TM/TTM controller card assembly and the printer engine card assembly. Are the above cards connected properly?	Go to step 11.	Replace the connection.
11	Perform a print test. Does the error still occur?	Replace the 2TM/TTM controller card assembly. Go to “2000-sheet dual input (TTM)—2TM/TTM controller card assembly removal” on page 4-281. Go to step 12.	Problem solved.
12	Perform a print test. Does the error still occur?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

Previous



Next



Go Back

244.04 Sensor (pre-feed) on jam (tray 4 media feed)

Step	Check	Yes	No
1	Check the media condition. Is the media in the tray, crumpled or damaged?	Replace the media.	Go to step 2.

Step	Check	Yes	No
2	Check the media size setup. Does the media size in use match the size set for tray 4?	Go to step 3.	Replace the media, or change the media size setup.
3	Check the tray 4 rolls. Pull out the tray 4, and check it. Are the feed roll, separation roll, and pick roll for transport free of excess wear and contamination?	Go to step 4.	Clean or replace the feed roll, separation roll, and pick roll. Go to “2000-sheet dual input (TTM)—feed roll removal” on page 4-266 , “2000-sheet dual input (TTM)—separation roll removal” on page 4-270 , and “2000-sheet dual input (TTM)—pick roll removal” on page 4-273 .
4	Check the media position. Does the media touch the sensor (pre-feed) of the tray 4 media feed unit assembly?	Remove the media.	Go to step 5.
5	Check the tray 4 sensor (pre-feed) for proper operation. 1. Enter the Diagnostics Menu. 2. Touch INPUT TRAY TESTS . 3. Touch Sensor Test . 4. Touch Tray 4 . 5. Touch Pre-feed . Remove the media tray assembly. Does the display on the operator panel change every time a white piece of paper is placed over the sensing area of the above sensor?	Go to step 7.	Go to step 6.
6	Check the tray 4 sensor (pre-feed) for proper connection. Is the above sensor connected properly?	Replace the sensor (pre-feed). Go to “2000-sheet dual input (TTM)—sensor (pre-feed) removal” on page 4-263 .	Replace the connection.
7	Check the connection between the 2TM/TTM controller card assembly and the printer engine card assembly. Are the above cards connected properly?	Go to step 8.	Replace the connection.
8	Check the tray 4 media feed lift motor for proper operation. 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS . 3. Touch Printer Motor Test . 4. Touch Tray 4 feed mtr . Does the above motor rotate normally?	Go to step 11.	Go to step 9.
9	Check the tray 4 media feed lift motor for proper connection. Is the above motor connected properly?	Go to step 10.	Replace the connection.

Previous



Next



Go Back

Step	Check	Yes	No
10	<p>Check the tray 4 media feed lift motor for proper operation.</p> <p>Replace the media feed lift motor for tray 4 with that for tray 3.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Printer Motor Test. 4. Touch Tray 4 feed mtr. <p>Does the above motor rotate normally?</p>	<p>Reinstall the media feed lift motor for tray 3 as it previously was, and then replace the media feed lift motor for tray 4 with a new one.</p> <p>Go to “2000-sheet dual input (TTM)—media feed lift motor removal” on page 4-255.</p>	<p>Replace the 2TM/TTM controller card assembly.</p> <p>Go to “2000-sheet dual input (TTM)—2TM/TTM controller card assembly removal” on page 4-281.</p>
11	<p>Perform a print test.</p> <p>Does the error still occur?</p>	<p>Replace the 2TM/TTM controller card assembly.</p> <p>Go to “2000-sheet dual input (TTM)—2TM/TTM controller card assembly removal” on page 4-281.</p> <p>Go to step 12.</p>	<p>Problem solved.</p>
12	<p>Perform a print test.</p> <p>Does the error still occur?</p>	<p>Replace the printer engine card assembly.</p> <p>Go to “Printer engine card assembly removal” on page 4-119.</p>	<p>Problem solved.</p>

Previous



Next



Go Back

244.05 Sensor (tray 4 feed-out) static jam

Step	Check	Yes	No
1	<p>Check the media position.</p> <p>Open the 2TM/TTM left door assembly, and visually check it.</p> <p>Does the media touch the sensor (tray 4 feed-out)?</p>	<p>Remove the media.</p>	<p>Go to step 2.</p>
2	<p>Check the sensor (tray 4 feed-out) for proper operation.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch INPUT TRAY TESTS. 3. Touch Sensor Test. 4. Touch Tray 4. 5. Touch Feed-out. <p>Open the 2TM/TTM left door assembly, and visually check it.</p> <p>Does the display on the operator panel change every time the actuator on the above sensor operates?</p>	<p>Go to step 4.</p>	<p>Go to step 3.</p>

Step	Check	Yes	No
3	Check the sensor (tray 4 feed-out) for proper connection. Is the above sensor connected properly?	Replace the sensor (tray 4 feed-out). Go to “2000-sheet dual input (TTM)—sensor (tray 4 feed-out) removal” on page 4-248.	Replace the connection.
4	Perform a print test. Does the error still occur?	Replace the 2TM/TTM controller card assembly. Go to “2000-sheet dual input (TTM)—2TM/TTM controller card assembly removal” on page 4-281. Go to step 5.	Problem solved.
5	Perform a print test. Does the error still occur?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

Previous



Next



Go Back

250.00 Sensor (registration) on jam (MPF pick)

Step	Check	Yes	No
1	Check the media condition. Is the media in the MPF tray, crumpled or damaged?	Replace the media with new; ensure it is dry.	Go to step 2.
2	Check the media size setup. Does the media size in use match the size set for MPF tray?	Go to step 3.	Replace the media, or change the media size setup.
3	Check the media position. Open the printer left door assembly, and visually check it. Does the media touch the sensor (registration)?	Remove the media.	Go to step 4.
4	Check the MPF media side guides for proper operation. Do the MPF media side guides operate smoothly?	Go to step 5.	Adjust the MPF media side guides correctly.
5	Check the MPF for proper installation. Remove the MPF feed unit assembly, and reinstall it. Perform a print test. Does an error occur during print test?	Go to step 6.	Problem solved.

Step	Check	Yes	No
6	Check the roll. Remove the MPF pick unit assembly. Is the MPF feed roll assembly free of excess wear and contamination?	Go to step 7.	Clean or replace the MPF feed roll assembly. Go to “MPF feed unit assembly removal” on page 4-54.
7	Check the roll. Remove the MPF feed unit assembly. Is the MPF feed roll assembly free of excess wear and contamination?	Go to step 8.	Clean or replace the MPF feed roll assembly. Go to “MPF feed unit assembly removal” on page 4-54.
8	Check the sensor (registration) for proper operation. 1. Enter the Diagnostics Menu. 2. Touch BASE SENSOR TEST. 3. Touch Media Path. 4. Touch Registration. Open the printer left door assembly, and check it. Does the display on the operator panel change every time the sensor actuator is operated?	Go to step 10.	Go to step 9.
9	Check the sensor (registration) connection. Is the sensor (registration) properly connected?	Replace the sensor (registration). Go to “Sensor (registration) removal” on page 4-81.	Replace the connection.
10	Check the MPF pick solenoid for proper operation. 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Printer Motor Test. 4. Touch MPF pick solenoid. Does the MPF pick solenoid make an audible clicking sound when activated?	Go to step 12.	Go to step 11.
11	Check the MPF pick solenoid connection. Is the MPF pick solenoid properly connected?	Replace the MPF pick solenoid. Go to “MPF pick solenoid / pick lever removal” on page 4-62.	Replace the connection.
12	Perform a print test. Does the error continue?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

Previous



Next



Go Back

290.00 Switch (sheet through) static jam

Previous



Next



Go Back

Step	Check	Yes	No
1	Check the sensor (sheet through). Is the feed media path free of media or media fragments?	Go to step 2.	Remove any media or media fragments.
2	Check the sensor (sheet through) for operation. Perform the sensor (sheet through) test. Open the ADF left cover assembly. Remove the ADF rear cover. Go to “ADF rear cover removal” on page 4-173. 1. Enter the Diagnostics Menu. 2. Touch SCANNER TESTS. 3. Touch Sensor Tests. 4. Touch Sheet through. Does the display on the operator panel change every time the sensing area of the above sensor is blocked?	Go to step 4.	Go to step 3.
3	Check the sensor (sheet through) for connection. Is the above sensor connected properly?	Replace the sensor (sheet through). Go to “Sensor (sheet through) removal” on page 4-208.	Replace the connection.
4	Place an undamaged document in the ADF, and perform a ADF test. Does the error remain?	Replace the ADF controller card assembly. Go to “ADF controller card assembly removal” on page 4-175.	Go to step 5.
5	Place an undamaged document in the ADF, and perform a ADF test. Does the error remain?	Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.	Problem solved.

290.01 Sensor (sheet through) on jam

Step	Check	Yes	No
1	Check the original document condition. Is the original document free of paper clips and staples as well as damage such as creases, tears, holes, or excessive wear?	Go to step 2.	Remove damaged original document, and replace with a new undamaged original document. Perform a ADF test. If the problem remains, go to step 2.

Step	Check	Yes	No
2	<p>Check the ADF rolls for wear.</p> <p>Is the ADF feed/pick roll assembly or the ADF separation roll assembly free of excess wear?</p>	Go to step 3.	<p>Clean or replace the ADF feed/pick roll assembly or the ADF separation roll guide assembly.</p> <p>Go to “ADF feed/pick roll assembly removal” on page 4-186 or “ADF separation roll guide assembly” on page 4-203.</p>
3	<p>Check the media path for contaminates.</p> <p>Is the media path free of excess media dust and foreign objects such as paper clips and staples?</p>	Go to step 4.	Remove all contaminates from the media path.
4	<p>Check the pick roll position motor assembly.</p> <p>Perform the pick roll position motor test.</p> <p>Open ADF left cover assembly.</p> <p>Override the switch (ADF left cover interlock).</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Scanner Motor Tests. 4. Touch Pick roll position mtr. <p>Does the pick roll position motor assembly raise and lower properly?</p>	Go to step 6.	Go to step 5.
5	<p>Check the pick roll position motor assembly connection.</p> <p>Is the above motor connected properly?</p>	<p>Replace the pick roll position motor assembly.</p> <p>Go to “Pick roll position motor assembly removal” on page 4-190.</p>	Replace the connection.
6	<p>Check the feed drive motor for correct operation.</p> <p>Perform the feed drive motor test.</p> <p>Open the ADF left cover assembly.</p> <p>Remove the ADF rear cover. Go to “ADF rear cover removal” on page 4-173.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Scanner Motor Tests. 4. Touch ADF feed drv mtr. <p>Does the feed drive motor rotate properly?</p>	Go to step 8.	Go to step 7.

Previous



Next



Go Back

Step	Check	Yes	No
7	Check the feed drive motor connection. Is the above motor connected properly?	Replace the ADF feed drive motor assembly. Go to “ADF feed drive motor assembly removal” on page 4-180.	Replace the connection.
8	Check the sensor (sheet through) for operation. Perform the sensor (sheet through) test. Open the ADF left cover assembly. Remove the ADF rear cover. Go to “ADF rear cover removal” on page 4-173. 1. Enter the Diagnostics Menu. 2. Touch SCANNER TESTS. 3. Touch Sensor Tests. 4. Touch Sheet through. Does the display on the operator panel change every time the sensing area of the above sensor is blocked?	Go to step 10.	Go to step 9.
9	Check the sensor (sheet through) for connection. Is the above sensor connected properly?	Replace the sensor (sheet through). Go to “Sensor (sheet through) removal” on page 4-208.	Replace the connection.
10	Check the feed drive motor connection. Is the above motor connected properly?	Replace the ADF feed drive motor assembly. Go to “ADF feed drive motor assembly removal” on page 4-180.	Replace the connection.
11	Place an undamaged document in the ADF, and perform a ADF test. Does the error remain?	Replace the ADF controller card assembly. Go to “ADF controller card assembly removal” on page 4-175.	Go to step 11.
12	Place an undamaged document in the ADF, and perform a ADF test. Does the error remain?	Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.	Problem solved.

Previous



Next



Go Back

290.02 Sensor (ADF pre-registration) on jam ADF simplex side 1

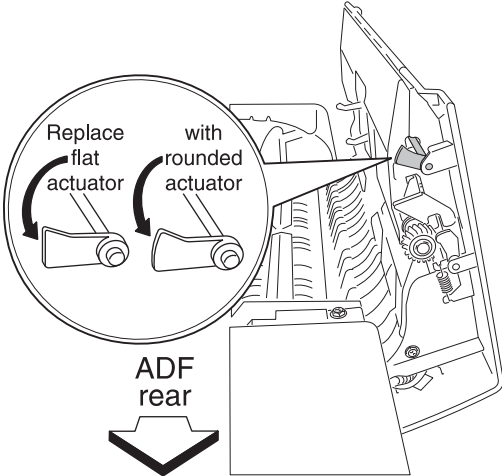
Previous



Next



Go Back

Step	Check	Yes	No
1	Check the original document condition. Is the original document free of paper clips and staples as well as damage such as creases, tears, holes, or excessive wear?	Go to step 2.	Remove damaged original document, and replace with a new undamaged original document. Perform a ADF test. If the problem remains, go to step 2.
2	Open the ADF left cover assembly and inspect the document set actuator as shown in the graphic below. Is the document set actuator flag flat as shown in the graphic below? 	Replace the document set actuator. Note: To receive the new rounded flag actuator, order 40X2283. Go to “Document set actuator removal” on page 4-188.	If problem remains, go to step 3.
3	Check the ADF rolls for wear. Is the ADF feed/pick roll assembly or the ADF separation roll guide assembly free of excess wear?	Go to step 4.	Clean or replace the ADF feed/pick roll assembly or the ADF separation roll guide assembly. Go to “ADF feed/pick roll assembly removal” on page 4-186 or “ADF separation roll guide assembly” on page 4-203.
4	Check the media path for contaminants. Is the media path free of excess media dust and foreign objects such as paper clips and staples?	Go to step 5.	Remove all contaminants from the media path.

Step	Check	Yes	No
5	Check the sensor (ADF pre registration) for operation. Perform the sensor (ADF pre registration) test. Open the ADF left cover assembly. <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch SCANNER TESTS. 3. Touch Sensor Tests. 4. Touch ADF pre registration. Operate the actuator of the sensor (ADF pre registration). Does the display on the operator panel change every time the sensing area of the above sensor is blocked?	Go to step 7.	Go to step 6.
6	Check the sensor (ADF pre-registration) for connection. Is the above sensor connected properly?	Replace the sensor (ADF pre-registration). Go to “Sensor (ADF pre-registration)” on page 4-196.	Replace the connection.
7	Check the feed drive motor for correct operation. Perform the feed drive motor test. Open the ADF left cover assembly. Remove the ADF rear cover. Go to “ADF rear cover removal” on page 4-173. <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Scanner Motor Tests. 4. Touch ADF feed drv mtr. Does the feed drive motor rotate properly?	Go to step 9.	Go to step 8.
8	Check the feed drive motor for connection. Is the above motor connected properly?	Replace the ADF feed drive motor assembly. Go to “ADF feed drive motor assembly removal” on page 4-180.	Replace the connection.
9	Place an undamaged document in the ADF, and perform a ADF test. Does the error remain?	Replace the ADF controller card assembly. Go to “ADF controller card assembly removal” on page 4-175.	Go to step 10.
10	Place an undamaged document in the ADF, and perform a ADF test. Does the error remain?	Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.	Problem solved.

Previous



Next



Go Back

290.03 Sensor (ADF pre-registration) off jam

Step	Check	Yes	No
1	<p>Check the original document condition.</p> <p>Is the original document free of paper clips and staples as well as damage such as creases, tears, holes, or excessive wear?</p>	Go to step 2.	Remove damaged original document, and replace with a new undamaged original document. Perform a ADF test. If the problem remains, go to step 2.
2	<p>Check the ADF rolls for wear.</p> <p>Is the ADF feed/pick roll assembly or the ADF separation roll guide assembly free of excess wear?</p>	Go to step 3.	<p>Clean or replace the ADF feed/pick roll assembly or the ADF separation roll guide assembly.</p> <p>Go to “ADF feed/pick roll assembly removal” on page 4-186 or “ADF separation roll guide assembly” on page 4-203.</p>
3	<p>Check the media path for contaminates.</p> <p>Is the media path free of excess media dust and foreign objects such as paper clips and staples?</p>	Go to step 4.	Remove all contaminates from the media path.
4	<p>Check the sensor (sheet through) for operation.</p> <p>Perform the sensor (sheet through) test.</p> <p>Open the ADF left cover assembly.</p> <p>Remove the ADF rear cover. Go to “ADF rear cover removal” on page 4-173.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch SCANNER TESTS. 3. Touch Sensor Tests. 4. Touch Sheet through. <p>Does the display on the operator panel change every time the sensing area of the above sensor is blocked?</p>	Go to step 6.	Go to step 5.
5	<p>Check the sensor (sheet through) for connection.</p> <p>Is the above sensor connected properly?</p>	<p>Replace the sensor (sheet through).</p> <p>Go to “Sensor (sheet through) removal” on page 4-208.</p>	Replace the connection.

Previous



Next



Go Back

Step	Check	Yes	No
6	<p>Check the sensor (ADF pre registration) for operation. Perform the sensor (ADF pre registration) test. Open the ADF left cover assembly.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch SCANNER TESTS. 3. Touch Sensor Tests. 4. Touch ADF pre registration. <p>Operate the actuator of the sensor (ADF pre registration). Does the display on the operator panel change every time the sensing area of the above sensor is blocked?</p>	Go to step 8.	Go to step 7.
7	<p>Check the sensor (ADF pre-registration) for connection. Is the above sensor connected properly?</p>	Replace the sensor (ADF pre-registration). Go to “Sensor (ADF pre-registration)” on page 4-196.	Replace the connection.
8	<p>Check the feed drive motor for correct operation. Perform the feed drive motor test. Open the ADF left cover assembly. Remove the ADF rear cover. Go to “ADF rear cover removal” on page 4-173.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Scanner Motor Tests. 4. Touch ADF feed drv mtr. <p>Does the feed drive motor rotate properly?</p>	Go to step 10.	Go to step 9.
9	<p>Check the feed drive motor for connection. Is the above sensor connected properly?</p>	Replace the ADF feed drive motor assembly. Go to “ADF feed drive motor assembly removal” on page 4-180.	Replace the connection.
10	<p>Check the registration motor (forward or reverse) test. Perform the registration motor test. Open the ADF left cover assembly. Remove the ADF rear cover. Go to “ADF rear cover removal” on page 4-173.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Scanner Motor Tests. 4. Touch ADF registration drv mtr. 5. Touch Forward or reverse. <p>Does the ADF registration motor operate properly?</p>	Go to step 12.	Go to step 11.

Previous



Next



Go Back

Step	Check	Yes	No
11	Check the ADF registration motor for connection. Is the above motor connected properly?	Replace the ADF registration motor. Go to “ADF registration motor removal” on page 4-209.	Replace the connection.
12	Place an undamaged document in the ADF, and perform a ADF test. Does the error remain?	Replace the ADF controller card assembly. Go to “ADF controller card assembly removal” on page 4-175.	Go to step 13.
13	Place an undamaged document in the ADF, and perform a ADF test. Does the error remain?	Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.	Problem solved.

Previous



Next



Go Back

290.10 Sensor (ADF pre-registration) static jam

Step	Check	Yes	No
1	Check the sensor (ADF pre-registration). Is the feed media path free of media or media fragments?	Go to step 2.	Remove any media or media fragments.
2	Check the sensor (ADF pre registration) for operation. Perform the sensor (ADF pre registration) test. Open the ADF left cover assembly. <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch SCANNER TESTS. 3. Touch Sensor Tests. 4. Touch ADF pre registration. Operate the actuator of the sensor (ADF pre registration). Does the display on the operator panel change every time the sensing area of the above sensor is blocked?	Go to step 4.	Go to step 3.
3	Check the sensor (ADF pre-registration) for connection. Is the above sensor connected properly?	Replace the sensor (ADF pre-registration). Go to “Sensor (ADF pre-registration)” on page 4-196.	Replace the connection.

Step	Check	Yes	No
4	Place an undamaged document in the ADF, and perform a ADF test. Does the error remain?	Replace the ADF controller card assembly. Go to “ADF controller card assembly removal” on page 4-175.	Go to step 5.
5	Place an undamaged document in the ADF, and perform a ADF test. Does the error remain?	Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.	Problem solved.

Previous



Next



Go Back

290.11 Sensor (ADF registration) on jam ADF simplex side 1

Step	Check	Yes	No
1	Check the original document condition. Is the original document free of paper clips and staples as well as damage such as creases, tears, holes, or excessive wear?	Go to step 2.	Remove damaged original document, and replace with a new undamaged original document. Perform a ADF test. If the problem remains, go to step 2.
2	Check the ADF rolls for wear. Is the ADF feed/pick roll assembly or the ADF separation roll guide assembly free of excess wear?	Go to step 3.	Clean or replace the ADF feed/pick roll assembly or the ADF separation roll guide assembly. Go to “ADF feed/pick roll assembly removal” on page 4-186 or “ADF separation roll guide assembly” on page 4-203.
3	Check the media path for contaminates. Is the media path free of excess media dust and foreign objects such as paper clips and staples?	Go to step 4.	Remove all contaminates from the media path.

Step	Check	Yes	No
4	<p>Check the sensor (ADF registration) for operation. Perform the sensor (ADF registration) test. Open the ADF left cover assembly.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch SCANNER TESTS. 3. Touch Sensor Tests. 4. Touch ADF registration. <p>Place a piece of white paper into the ADF media entrance and over the sensor (ADF registration).</p> <p>Does the display on the operator panel change every time the sensing area of the above sensor is blocked?</p>	Go to step 6.	Go to step 5.
5	<p>Check the sensor (ADF registration) for connection. Is the above sensor connected properly?</p>	<p>Replace the sensor (ADF registration). Go to “Sensor (ADF registration)” on page 4-195.</p>	Replace the connection.
6	<p>Check the feed drive motor for correct operation. Perform the feed drive motor test. Open the ADF left cover assembly. Remove the ADF rear cover. Go to “ADF rear cover removal” on page 4-173.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Scanner Motor Tests. 4. Touch ADF feed drv mtr. <p>Does the feed drive motor rotate properly?</p>	<p>Replace the ADF feed drive motor assembly. Go to “ADF feed drive motor assembly removal” on page 4-180.</p>	Go to step 7.
7	<p>Check the feed drive motor for connection. Is the above sensor connected properly?</p>	<p>Replace the ADF feed drive motor assembly. Go to “ADF feed drive motor assembly removal” on page 4-180.</p>	Replace the connection.
8	<p>Place an undamaged document in the ADF, and perform a ADF test. Does the error remain?</p>	<p>Replace the ADF controller card assembly. Go to “ADF controller card assembly removal” on page 4-175.</p>	Go to step 9.
9	<p>Place an undamaged document in the ADF, and perform a ADF test. Does the error remain?</p>	<p>Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.</p>	Problem solved.

Previous



Next



Go Back

290.12 Sensor (ADF registration) on jam side 2

Step	Check	Yes	No
1	<p>Check the original document condition.</p> <p>Is the original document free of paper clips and staples as well as damage such as creases, tears, holes, or excessive wear?</p>	Go to step 2.	Remove damaged original document, and replace with a new undamaged original document. Perform a ADF test. If the problem remains, go to step 2.
2	<p>Check the ADF rolls for wear.</p> <p>Is the ADF feed/pick roll assembly or the ADF separation roll guide assembly free of excess wear?</p>	Go to step 3.	<p>Clean or replace the ADF feed/pick roll assembly or the ADF separation roll guide assembly.</p> <p>Go to “ADF feed/pick roll assembly removal” on page 4-186 or “ADF separation roll guide assembly” on page 4-203.</p>
3	<p>Check the media path for contaminates.</p> <p>Is the media path free of excess media dust and foreign objects such as paper clips and staples?</p>	Go to step 4.	Remove all contaminates from the media path.
4	<p>Check the inverter gate condition.</p> <p>Is the inverter gate free of damage and warpage; and does it move smoothly?</p>	Go to step 5.	<p>Replace the inverter gate.</p> <p>Go to “Inverter gate removal” on page 4-199.</p>
5	<p>Check the sensor (ADF registration) for operation.</p> <p>Perform the sensor (ADF registration) test.</p> <p>Open the ADF left cover assembly.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch SCANNER TESTS. 3. Touch Sensor Tests. 4. Touch ADF registration. <p>Place a piece of white paper into the ADF media entrance and over the sensor (ADF registration).</p> <p>Does the display on the operator panel change every time the sensing area of the above sensor is blocked?</p>	Go to step 7.	Go to step 6.
6	<p>Check the sensor (ADF registration) for connection.</p> <p>Is the above sensor connected properly?</p>	<p>Replace the sensor (ADF registration).</p> <p>Go to “Sensor (ADF registration)” on page 4-195.</p>	Replace the connection.

Previous



Next



Go Back

Step	Check	Yes	No
7	<p>Check the feed drive motor for correct operation. Perform the feed drive motor test. Open the ADF left cover assembly. Remove the ADF rear cover. Go to “ADF rear cover removal” on page 4-173.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Scanner Motor Tests. 4. Touch ADF feed drv mtr. <p>Does the feed drive motor rotate properly?</p>	Go to step 9.	Go to step 8.
8	<p>Check the feed drive motor for connection. Is the above sensor connected properly?</p>	<p>Replace the ADF feed drive motor assembly. Go to “ADF feed drive motor assembly removal” on page 4-180.</p>	Replace the connection.
9	<p>Check the inverter solenoid assembly for operation. Perform the inverter solenoid test. Open the ADF left cover assembly. Remove the ADF front cover assembly. Go to “ADF front cover assembly removal” on page 4-174. Close the ADF left cover assembly.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Scanner Motor Tests. 4. Touch Inverter solenoid. <p>Does the inverter solenoid assembly operate properly?</p>	Go to step 11.	Go to step 10.
10	<p>Check the inverter solenoid assembly for connection. Is the above motor connected properly?</p>	<p>Replace the inverter solenoid assembly. Go to “Inverter solenoid assembly removal” on page 4-181.</p>	Replace the connection.
11	<p>Place an undamaged document in the ADF, and perform a ADF test. Does the error remain?</p>	<p>Replace the ADF controller card assembly. Go to “ADF controller card assembly removal” on page 4-175.</p>	Go to step 12.
12	<p>Place an undamaged document in the ADF, and perform a ADF test. Does the error remain?</p>	<p>Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.</p>	Problem solved.

Previous



Next



Go Back

290.13 Sensor (ADF registration) off jam

Previous



Next



Go Back

Step	Check	Yes	No
1	<p>Check the original document condition.</p> <p>Is the original document free of paper clips and staples as well as damage such as creases, tears, holes, or excessive wear?</p>	Go to step 2.	Remove damaged original document, and replace with a new undamaged original document. Perform a ADF test. If the problem remains, go to step 2.
2	<p>Remove the registration pad cover, and clean the black registration pad shown in the diagram below.</p> <ol style="list-style-type: none"> 1. Raise the ADF to the full upright position. 2. Remove the two screws securing the registration pad cover. 3. Remove the registration pad cover. 4. Clean or replace the black registration pad of excess paper dust. 5. Reinstall the registration pad cover. <div data-bbox="402 856 1052 1407" style="text-align: center;"> </div> <p>Place several undamaged documents in the ADF, and perform an ADF test.</p> <p>Does the problem remain?</p>	Go to step 3.	Problem solved.
3	<p>Check the ADF rolls for wear.</p> <p>Is the ADF feed/pick roll assembly or the ADF separation roll guide assembly free of excess wear?</p>	Go to step 4.	<p>Clean or replace the ADF feed/pick roll assembly or the ADF separation roll guide assembly.</p> <p>Go to “ADF feed/pick roll assembly removal” on page 4-186 or “ADF separation roll guide assembly” on page 4-203.</p>

Step	Check	Yes	No
4	Check the media path for contaminates. Is the media path free of excess media dust and foreign objects such as paper clips and staples?	Go to step 5.	Remove all contaminates from the media path.
5	Check the sensor (ADF registration) for operation. Perform the sensor (ADF registration) test. Open the ADF left cover assembly. 1. Enter the Diagnostics Menu. 2. Touch SCANNER TESTS . 3. Touch Sensor Tests . 4. Touch ADF registration . Place a piece of white paper into the ADF media entrance and over the sensor (ADF registration). Does the display on the operator panel change every time the sensing area of the above sensor is blocked?	Go to step 7.	Go to step 6.
6	Check the sensor (ADF registration) for connection. Is the above sensor connected properly?	Replace the sensor (ADF registration). Go to “Sensor (ADF registration)” on page 4-195.	Replace the connection.
7	Check the registration motor (forward or reverse) test. Perform the registration motor test. Open the ADF left cover assembly. Remove the ADF rear cover. Go to “ADF rear cover removal” on page 4-173. 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS . 3. Touch Scanner Motor Tests . 4. Touch ADF registration drv mtr. 5. Touch Forward or reverse . Does the ADF registration motor operate properly?	Go to step 9.	Go to step 8.
8	Check the ADF registration motor for connection. Is the above motor connected properly?	Replace the ADF registration motor. Go to “ADF registration motor removal” on page 4-209.	Replace the connection.
9	Place an undamaged document in the ADF, and perform a ADF test. Does the error remain?	Replace the ADF controller card assembly. Go to “ADF controller card assembly removal” on page 4-175.	Go to step 10.

Previous



Next



Go Back

Step	Check	Yes	No
10	Place an undamaged document in the ADF, and perform a ADF test. Does the error remain?	Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.	Problem solved.

Previous



Next



Go Back

290.14 Sensor (ADF inverter) on jam (Inverting)

Step	Check	Yes	No
1	Check the original document condition. Is the original document free of paper clips and staples as well as damage such as creases, tears, holes, or excessive wear?	Go to step 2.	Remove damaged original document, and replace with a new undamaged original document. Perform a ADF test. If the problem remains, go to step 2.
2	Check the ADF rolls for wear. Is the ADF feed/pick roll assembly or the ADF separation roll guide assembly free of excess wear?	Go to step 3.	Clean or replace the ADF feed/pick roll assembly or the ADF separation roll guide assembly. Go to “ADF feed/pick roll assembly removal” on page 4-186 or “ADF separation roll guide assembly” on page 4-203.
3	Check the media path for contaminates. Is the media path free of excess media dust and foreign objects such as paper clips and staples?	Go to step 4.	Remove all contaminates from the media path.
4	Check the sensor (ADF inverter) for operation. Perform the sensor (ADF inverter) test. Open the ADF left cover assembly. Remove the ADF separation roll guide assembly. Go to “ADF separation roll guide assembly” on page 4-203. 1. Enter the Diagnostics Menu. 2. Touch SCANNER TESTS. 3. Touch Sensor Tests. 4. Touch ADF inverter. Insert a sheet of paper into the ADF paper path entrance. Manually rotate the ADF exit roll assembly by hand to feed the sheet through the ADF to operate the actuator of the sensor (ADF inverter). Does the display on the operator panel change every time the sensing area of the above sensor is blocked?	Go to step 5.	Go to FIP2.9.

Step	Check	Yes	No
5	Check the sensor (ADF inverter) for connection. Is the above sensor connected properly?	Replace the sensor (ADF inverter). Go to “Sensor (ADF inverter)” on page 4-197.	Replace the connection.
6	Check the registration motor (forward or reverse) test. Perform the registration motor test. Open the ADF left cover assembly. Remove the ADF rear cover. Go to “ADF rear cover removal” on page 4-173. 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Scanner Motor Tests. 4. Touch ADF registration drv mtr. 5. Touch Forward or reverse. Does the ADF registration motor operate properly?	Go to step 8.	Go to step 7.
7	Check the ADF registration motor for connection. Is the above motor connected properly?	Replace the ADF registration motor. Go to “ADF registration motor removal” on page 4-209.	Replace the connection.
8	Check the sensor (ADF registration) for operation. Perform the sensor (ADF registration) test. Open the ADF left cover assembly. 1. Enter the Diagnostics Menu. 2. Touch SCANNER TESTS. 3. Touch Sensor Tests. 4. Touch ADF registration. Place a piece of white paper into the ADF media entrance and over the sensor (ADF registration). Does the display on the operator panel change every time the sensing area of the above sensor is blocked?	Go to step 10.	Go to step 9.
9	Check the sensor (ADF registration) for connection. Is the above sensor connected properly?	Replace the sensor (ADF registration). Go to “Sensor (ADF registration)” on page 4-195.	Replace the connection.
10	Place an undamaged document in the ADF, and perform a ADF test. Does the error remain?	Replace the ADF controller card assembly. Go to “ADF controller card assembly removal” on page 4-175.	Go to step 11.

Previous



Next



Go Back

Step	Check	Yes	No
11	Place an undamaged document in the ADF, and perform a ADF test. Does the error remain?	Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.	Problem solved.

Previous



Next



Go Back

290.15 Sensor (ADF registration) off jam (inverting)

Step	Check	Yes	No
1	Check the original document condition. Is the original document free of paper clips and staples as well as damage such as creases, tears, holes, or excessive wear?	Go to step 2.	Remove damaged original document, and replace with a new undamaged original document. Perform a ADF test. If the problem remains, go to step 2.
2	Check the ADF rolls for wear. Is the ADF feed/pick roll assembly or the ADF separation roll guide assembly free of excess wear?	Go to step 3.	Clean or replace the ADF feed/pick roll assembly or the ADF separation roll guide assembly. Go to “ADF feed/pick roll assembly removal” on page 4-186 or “ADF separation roll guide assembly” on page 4-203.
3	Check the media path for contaminates. Is the media path free of excess media dust and foreign objects such as paper clips and staples?	Go to step 4.	Remove all contaminates from the media path.

Step	Check	Yes	No
4	<p>Check the sensor (ADF registration) for operation. Perform the sensor (ADF registration) test. Open the ADF left cover assembly.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch SCANNER TESTS. 3. Touch Sensor Tests. 4. Touch ADF registration. <p>Place a piece of white paper into the ADF media entrance and over the sensor (ADF registration). Does the display on the operator panel change every time the sensing area of the above sensor is blocked?</p>	Go to step 6.	Go to step 5.
5	<p>Check the sensor (ADF registration) for connection. Is the above sensor connected properly?</p>	Replace the sensor (ADF registration). Go to “Sensor (ADF registration)” on page 4-195.	Replace the connection.
6	<p>Check the sensor (ADF pre registration) for operation. Perform the sensor (ADF pre registration) test. Open the ADF left cover assembly.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch SCANNER TESTS. 3. Touch Sensor Tests. 4. Touch ADF pre registration. <p>Operate the actuator of the sensor (ADF pre registration). Does the display on the operator panel change every time the sensing area of the above sensor is blocked?</p>	Go to step 8.	Go to step 7.
7	<p>Check the sensor (ADF pre-registration) for connection. Is the above sensor connected properly?</p>	Replace the sensor (ADF pre-registration). Go to “Sensor (ADF pre-registration)” on page 4-196.	Replace the connection.
8	<p>Check the feed drive motor for correct operation. Perform the feed drive motor test. Open the ADF left cover assembly. Remove the ADF rear cover. Go to “ADF rear cover removal” on page 4-173.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Scanner Motor Tests. 4. Touch ADF feed drv mtr. <p>Does the feed drive motor rotate properly?</p>	Go to step 10.	Go to step 9.

Previous



Next



Go Back

Step	Check	Yes	No
9	<p>Check the feed drive motor for connection. Is the above sensor connected properly?</p>	<p>Replace the ADF feed drive motor assembly. Go to “ADF feed drive motor assembly removal” on page 4-180.</p>	<p>Replace the connection.</p>
10	<p>Check the inverter solenoid assembly for operation. Perform the inverter solenoid test. Open the ADF left cover assembly. Remove the ADF front cover assembly. Go to “ADF front cover assembly removal” on page 4-174. Close the ADF left cover assembly. <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Scanner Motor Tests. 4. Touch Inverter solenoid. <p>Does the inverter solenoid assembly operate properly?</p> </p>	<p>Go to step 12.</p>	<p>Go to step 11.</p>
11	<p>Check the inverter solenoid assembly for connection. Is the above motor connected properly?</p>	<p>Replace the inverter solenoid assembly. Go to “Inverter solenoid assembly removal” on page 4-181.</p>	<p>Replace the connection.</p>
12	<p>Check the registration motor (forward or reverse) test. Perform the registration motor test. Open the ADF left cover assembly. Remove the ADF rear cover. Go to “ADF rear cover removal” on page 4-173. <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Scanner Motor Tests. 4. Touch ADF registration drv mtr. 5. Touch Forward or reverse. <p>Does the ADF registration motor operate properly?</p> </p>	<p>Go to step 14.</p>	<p>Go to step 13.</p>
13	<p>Check the ADF registration motor for connection. Is the above motor connected properly?</p>	<p>Replace the ADF registration motor. Go to “ADF registration motor removal” on page 4-209.</p>	<p>Replace the connection.</p>

Previous



Next



Go Back

Step	Check	Yes	No
14	Place an undamaged document in the ADF, and perform a ADF test. Does the error remain?	Replace the ADF controller card assembly. Go to “ADF controller card assembly removal” on page 4-175.	Go to step 15.
15	Place an undamaged document in the ADF, and perform a ADF test. Does the error remain?	Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.	Problem solved.

Previous



Next



Go Back

290.21 Sensor (ADF width APS 1) static jam

Step	Check	Yes	No
1	Check the sensor (ADF width APS 1). Is the feed media path free of media or media fragments?	Go to step 2.	Remove any media or media fragments.
2	Check the sensor (ADF width APS 1) for operation. Perform the sensor (ADF width APS 1) test. Open the ADF left cover assembly. 1. Enter the Diagnostics Menu. 2. Touch SCANNER TESTS. 3. Touch Sensor Tests. 4. Touch ADF width APS 1. Operate the actuator of the sensor (ADF width APS 1). Does the display on the operator panel change every time the sensing area of the above sensor is blocked?	Go to step 4.	Go to step 3.
3	Check the sensor (ADF width APS 1) for connection. Is the above sensor connected properly?	Replace the sensor (ADF width APS 1). Go to “Sensor (ADF width APS 1)” on page 4-192.	Replace the connection.
4	Place an undamaged document in the ADF, and perform a ADF test. Does the error remain?	Replace the ADF controller card assembly. Go to “ADF controller card assembly removal” on page 4-175.	Go to step 5.

Step	Check	Yes	No
5	Place an undamaged document in the ADF, and perform a ADF test. Does the error remain?	Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.	Problem solved.

Previous



Next



Go Back

290.22 Sensor (ADF width APS 2) static jam

Step	Check	Yes	No
1	Check the sensor (ADF width APS 2). Is the feed media path free of media or media fragments?	Go to step 2.	Remove any media or media fragments.
2	Check the sensor (ADF width APS 2) for operation. Perform the sensor (ADF width APS 2) test. Open the ADF left cover assembly. 1. Enter the Diagnostics Menu. 2. Touch SCANNER TESTS. 3. Touch Sensor Tests. 4. Touch ADF width APS 2. Operate the actuator of the sensor (ADF width APS 2). Does the display on the operator panel change every time the sensing area of the above sensor is blocked?	Go to step 4.	Go to step 3.
3	Check the sensor (ADF width APS 1) for connection. Is the above sensor connected properly?	Replace the sensor (ADF width APS 1). Go to “Sensor (ADF width APS 1)” on page 4-192.	Replace the connection.
4	Place an undamaged document in the ADF, and perform a ADF test. Does the error remain?	Replace the ADF controller card assembly. Go to “ADF controller card assembly removal” on page 4-175.	Go to step 5.
5	Place an undamaged document in the ADF, and perform a ADF test. Does the error remain?	Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.	Problem solved.

290.23 Sensor (ADF width APS 3) static jam

Step	Check	Yes	No
1	Check the sensor (ADF width APS 3). Is the feed media path free of media or media fragments?	Go to step 2.	Remove any media or media fragments.
2	Check the sensor (ADF width APS 3) for operation. Perform the sensor (ADF width APS 3) test. Open the ADF left cover assembly. 1. Enter the Diagnostics Menu. 2. Touch SCANNER TESTS . 3. Touch Sensor Tests . 4. Touch ADF width APS 3 . Operate the actuator of the sensor (ADF width APS 3). Does the display on the operator panel change every time the sensing area of the above sensor is blocked?	Go to step 4.	Go to step 3.
3	Check the sensor (ADF width APS 1) for connection. Is the above sensor connected properly?	Replace the sensor (ADF width APS 1). Go to “Sensor (ADF width APS 1)” on page 4-192.	Replace the connection.
4	Place an undamaged document in the ADF, and perform a ADF test. Does the error remain?	Replace the ADF controller card assembly. Go to “ADF controller card assembly removal” on page 4-175.	Go to step 5.
5	Place an undamaged document in the ADF, and perform a ADF test. Does the error remain?	Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.	Problem solved.

291.00 Sensor (ADF registration) static jam

Step	Check	Yes	No
1	Check the sensor (ADF registration). Is the feed media path free of media or media fragments?	Go to step 2.	Remove any media or media fragments.

Previous



Next



Go Back

Step	Check	Yes	No
2	<p>Check the sensor (ADF registration) for operation.</p> <p>Perform the sensor (ADF registration) test.</p> <p>Open the ADF left cover assembly.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch SCANNER TESTS. 3. Touch Sensor Tests. 4. Touch ADF registration. <p>Place a piece of white paper into the ADF media entrance and over the sensor (ADF registration).</p> <p>Does the display on the operator panel change every time the sensing area of the above sensor is blocked?</p>	Go to step 4.	Go to step 3.
3	<p>Check the sensor (ADF registration) for connection.</p> <p>Is the above sensor connected properly?</p>	<p>Replace the sensor (ADF registration).</p> <p>Go to “Sensor (ADF registration)” on page 4-195.</p>	Replace the connection.
4	<p>Place an undamaged document in the ADF, and perform a ADF test.</p> <p>Does the error remain?</p>	<p>Replace the ADF controller card assembly.</p> <p>Go to “ADF controller card assembly removal” on page 4-175.</p>	Go to step 5.
5	<p>Place an undamaged document in the ADF, and perform a ADF test.</p> <p>Does the error remain?</p>	<p>Replace the RIP card assembly.</p> <p>Go to “RIP card assembly removal” on page 4-130.</p>	Problem solved.

Previous



Next



Go Back

291.01 Sensor (ADF inverter) off jam (inverting)

Step	Check	Yes	No
1	<p>Check the original document condition.</p> <p>Is the original document free of paper clips and staples as well as damage such as creases, tears, holes, or excessive wear?</p>	Go to step 2.	<p>Remove damaged original document, and replace with a new undamaged original document.</p> <p>Perform a ADF test. If the problem remains, go to step 2.</p>

Step	Check	Yes	No
2	<p>Check the ADF rolls for wear.</p> <p>Is the ADF feed/pick roll assembly or the ADF separation roll guide assembly free of excess wear?</p>	Go to step 3.	<p>Clean or replace the ADF feed/pick roll assembly or the ADF separation roll guide assembly.</p> <p>Go to “ADF feed/pick roll assembly removal” on page 4-186 or “ADF separation roll guide assembly” on page 4-203.</p>
3	<p>Check the media path for contaminates.</p> <p>Is the media path free of excess media dust and foreign objects such as paper clips and staples?</p>	Go to step 4.	Remove all contaminates from the media path.
4	<p>Check the sensor (ADF inverter) for operation.</p> <p>Perform the sensor (ADF inverter) test.</p> <p>Open the ADF left cover assembly.</p> <p>Remove the ADF separation roll guide assembly. Go to “ADF separation roll guide assembly” on page 4-203.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch SCANNER TESTS. 3. Touch Sensor Tests. 4. Touch ADF inverter. <p>Insert a sheet of paper into the ADF paper path entrance.</p> <p>Manually rotate the ADF exit roll assembly by hand to feed the sheet through the ADF to operate the actuator of the sensor (ADF inverter).</p> <p>Does the display on the operator panel change every time the sensing area of the above sensor is blocked?</p>	Go to step 6.	Go to step 5.
5	<p>Check the sensor (ADF inverter) for connection.</p> <p>Is the above sensor connected properly?</p>	<p>Replace the sensor (ADF inverter).</p> <p>Go to “Sensor (ADF inverter)” on page 4-197.</p>	Replace the connection.
6	<p>Check the registration motor (forward or reverse) test.</p> <p>Perform the registration motor test.</p> <p>Open the ADF left cover assembly.</p> <p>Remove the ADF rear cover. Go to “ADF rear cover removal” on page 4-173.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Scanner Motor Tests. 4. Touch ADF registration drv mtr. 5. Touch Forward or reverse. <p>Does the ADF registration motor operate properly?</p>	Go to step 8.	Go to step 7.

Previous



Next



Go Back

Step	Check	Yes	No
7	Check the ADF registration motor for connection. Is the above motor connected properly?	Replace the ADF registration motor. Go to “ADF registration motor removal” on page 4-209.	Replace the connection.
8	Place an undamaged document in the ADF, and perform a ADF test. Does the error remain?	Replace the ADF controller card assembly. Go to “ADF controller card assembly removal” on page 4-175.	Go to step 9.
9	Place an undamaged document in the ADF, and perform a ADF test. Does the error remain?	Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.	Problem solved.

Previous



Next



Go Back

291.02 Sensor (ADF inverter) on jam 2

Step	Check	Yes	No
1	Check the original document condition. Is the original document free of paper clips and staples as well as damage such as creases, tears, holes, or excessive wear?	Go to step 2.	Remove damaged original document, and replace with a new undamaged original document. Perform a ADF test. If the problem remains, go to step 2.
2	Check the ADF rolls for wear. Is the ADF feed/pick roll assembly or the ADF separation roll guide assembly free of excess wear?	Go to step 3.	Clean or replace the ADF feed/pick roll assembly or the ADF separation roll guide assembly. Go to “ADF feed/pick roll assembly removal” on page 4-186 or “ADF separation roll guide assembly” on page 4-203.
3	Check the media path for contaminates. Is the media path free of excess media dust and foreign objects such as paper clips and staples?	Go to step 4.	Remove all contaminates from the media path.

Step	Check	Yes	No
4	<p>Check the sensor (ADF inverter) for operation. Perform the sensor (ADF inverter) test. Open the ADF left cover assembly. Remove the ADF separation roll guide assembly. Go to “ADF separation roll guide assembly” on page 4-203.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch SCANNER TESTS. 3. Touch Sensor Tests. 4. Touch ADF inverter. <p>Insert a sheet of paper into the ADF paper path entrance. Manually rotate the ADF exit roll assembly by hand to feed the sheet through the ADF to operate the actuator of the sensor (ADF inverter). Does the display on the operator panel change every time the sensing area of the above sensor is blocked?</p>	Go to step 6.	Go to step 5.
5	<p>Check the sensor (ADF inverter) for connection. Is the above sensor connected properly?</p>	Replace the sensor (ADF inverter). Go to “Sensor (ADF inverter)” on page 4-197.	Replace the connection.
6	<p>Check the inverter gate condition. Is the inverter gate free of damage and warpage; and does it move smoothly?</p>	Go to step 7.	Replace the inverter gate. Go to “Inverter gate removal” on page 4-199.
7	<p>Check the registration motor (forward or reverse) test. Perform the registration motor test. Open the ADF left cover assembly. Remove the ADF rear cover. Go to “ADF rear cover removal” on page 4-173.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Scanner Motor Tests. 4. Touch ADF registration drv mtr. 5. Touch Forward or reverse. <p>Does the ADF registration motor operate properly?</p>	Go to step 9.	Go to step 8.
8	<p>Check the ADF registration motor for connection. Is the above motor connected properly?</p>	Replace the ADF registration motor. Go to “ADF registration motor removal” on page 4-209.	Replace the connection.

Previous



Next



Go Back

Step	Check	Yes	No
9	Place an undamaged document in the ADF, and perform a ADF test. Does the error remain?	Replace the ADF controller card assembly. Go to “ADF controller card assembly removal” on page 4-175.	Go to step 10.
10	Place an undamaged document in the ADF, and perform a ADF test. Does the error remain?	Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.	Problem solved.

Previous



Next



Go Back

291.03 Sensor (ADF inverter) off jam

Step	Check	Yes	No
1	Check the original document condition. Is the original document free of paper clips and staples as well as damage such as creases, tears, holes, or excessive wear?	Go to step 2.	Remove damaged original document and replace with a new undamaged original document. Perform a ADF test. If the problem remains, go to step 2.
2	Check the ADF rolls for wear. Is the ADF feed/pick roll assembly or the ADF separation roll guide assembly free of excess wear?	Go to step 3.	Clean or replace the ADF feed/pick roll assembly or the ADF separation roll guide assembly. Go to “ADF feed/pick roll assembly removal” on page 4-186 or “ADF separation roll guide assembly” on page 4-203.
3	Check the media path for contaminates. Is the media path free of excess media dust and foreign objects such as paper clips and staples?	Go to step 4.	Remove all contaminates from the media path.

Step	Check	Yes	No
4	<p>Check the sensor (ADF inverter) for operation. Perform the sensor (ADF inverter) test. Open the ADF left cover assembly. Remove the ADF separation roll guide assembly. Go to “ADF separation roll guide assembly” on page 4-203.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch SCANNER TESTS. 3. Touch Sensor Tests. 4. Touch ADF inverter. <p>Insert a sheet of paper into the ADF paper path entrance. Manually rotate the ADF exit roll assembly by hand to feed the sheet through the ADF to operate the actuator of the sensor (ADF inverter). Does the display on the operator panel change every time the sensing area of the above sensor is blocked?</p>	Go to step 6.	Go to step 5.
5	<p>Check the sensor (ADF inverter) for connection. Is the above sensor connected properly?</p>	Replace the sensor (ADF inverter). Go to “Sensor (ADF inverter)” on page 4-197.	Replace the connection.
6	<p>Check the sensor (ADF registration) for operation. Perform the sensor (ADF registration) test. Open the ADF left cover assembly.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch SCANNER TESTS. 3. Touch Sensor Tests. 4. Touch ADF registration. <p>Place a piece of white paper into the ADF media entrance and over the sensor (ADF registration). Does the display on the operator panel change every time the sensing area of the above sensor is blocked?</p>	Go to step 8.	Go to step 7.
7	<p>Check the sensor (ADF registration) for connection. Is the above sensor connected properly?</p>	Replace the sensor (ADF registration). Go to “Sensor (ADF registration)” on page 4-195.	Replace the connection.
8	<p>Check the inverter gate condition. Is the inverter gate free of damage and warpage; and does it move smoothly?</p>	Go to step 9.	Replace the inverter gate. Go to “Inverter gate removal” on page 4-199.

Previous



Next



Go Back

Step	Check	Yes	No
9	<p>Check the registration motor (forward or reverse) test. Perform the registration motor test. Open the ADF left cover assembly. Remove the ADF rear cover. Go to “ADF rear cover removal” on page 4-173.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Scanner Motor Tests. 4. Touch ADF registration drv mtr. 5. Touch Forward or reverse. <p>Does the ADF registration motor operate properly?</p>	Go to step 11.	Go to step 10.
10	<p>Check the ADF registration motor for connection. Is the above motor connected properly?</p>	<p>Replace the ADF registration motor. Go to “ADF registration motor removal” on page 4-209.</p>	Replace the connection.
11	<p>Check the inverter solenoid assembly for operation. Perform the inverter solenoid test. Open the ADF left cover assembly. Remove the ADF front cover assembly. Go to “ADF front cover assembly removal” on page 4-174. Close the ADF left cover assembly.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Scanner Motor Tests. 4. Touch Inverter solenoid. <p>Does the inverter solenoid assembly operate properly?</p>	Go to step 13.	Go to step 12.
12	<p>Check the inverter solenoid assembly for connection. Is the above motor connected properly?</p>	<p>Replace the inverter solenoid assembly. Go to “Inverter solenoid assembly removal” on page 4-181.</p>	Replace the connection.
13	<p>Place an undamaged document in the ADF, and perform a ADF test. Does the error remain?</p>	<p>Replace the ADF controller card assembly. Go to “ADF controller card assembly removal” on page 4-175.</p>	Go to step 14.
14	<p>Place an undamaged document in the ADF, and perform a ADF test. Does the error remain?</p>	<p>Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.</p>	Problem solved.

Previous



Next



Go Back

294.00 Sensor (ADF inverter) static jam

Step	Check	Yes	No
1	Check the sensor (ADF inverter). Is the feed media path free of media or media fragments?	Go to step 2.	Remove any media or media fragments.
2	Check the sensor (ADF inverter) for operation. Perform the sensor (ADF inverter) test. Open the ADF left cover assembly. Remove the ADF separation roll guide assembly. Go to “ADF separation roll guide assembly” on page 4-203. 1. Enter the Diagnostics Menu. 2. Touch SCANNER TESTS. 3. Touch Sensor Tests. 4. Touch ADF inverter. Insert a sheet of paper into the ADF paper path entrance. Manually rotate the ADF exit roll assembly by hand to feed the sheet through the ADF to operate the actuator of the sensor (ADF inverter). Does the display on the operator panel change every time the sensing area of the above sensor is blocked?	Go to step 4.	Go to step 3.
3	Check the sensor (ADF inverter) for connection. Is the above sensor connected properly?	Replace the sensor (ADF inverter). Go to “Sensor (ADF inverter)” on page 4-197.	Replace the connection.
4	Place an undamaged document in the ADF, and perform a ADF test. Does the error remain?	Replace the ADF controller card assembly. Go to “ADF controller card assembly removal” on page 4-175.	Go to step 5.
5	Place an undamaged document in the ADF, and perform a ADF test. Does the error remain?	Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.	Problem solved.

Previous



Next



Go Back

294.01 Sensor (ADF pre-registration) on jam side 2

Step	Check	Yes	No
1	Check the original document condition. Is the original document free of paper clips and staples as well as damage such as creases, tears, holes, or excessive wear?	Go to step 2.	Remove damaged original document and replace with a new undamaged original document. Perform a ADF test. If the problem remains, go to step 2.
2	Check the ADF rolls for wear. Is the ADF feed/pick roll assembly or the ADF separation roll guide assembly free of excess wear?	Go to step 3.	Clean or replace the ADF feed/pick roll assembly or the ADF separation roll guide assembly. Go to “ADF feed/pick roll assembly removal” on page 4-186 or “ADF separation roll guide assembly” on page 4-203.
3	Check the media path for contaminates. Is the media path free of excess media dust and foreign objects such as paper clips and staples?	Go to step 4.	Remove all contaminates from the media path.
4	Check the inverter gate condition. Is the inverter gate free of damage and warpage; and does it move smoothly?	Go to step 5.	Replace the inverter gate. Go to “Inverter gate removal” on page 4-199.
5	Check the sensor (ADF pre registration) for operation. Perform the sensor (ADF pre registration) test. Open the ADF left cover assembly. 1. Enter the Diagnostics Menu. 2. Touch SCANNER TESTS. 3. Touch Sensor Tests. 4. Touch ADF pre registration. Operate the actuator of the sensor (ADF pre registration). Does the display on the operator panel change every time the sensing area of the above sensor is blocked?	Go to step 7.	Go to step 6.
6	Check the sensor (ADF pre-registration) for connection. Is the above sensor connected properly?	Replace the sensor (ADF pre-registration). Go to “Sensor (ADF pre-registration)” on page 4-196.	Replace the connection.

Previous



Next



Go Back

Step	Check	Yes	No
7	<p>Check the registration motor (forward or reverse) test. Perform the registration motor test. Open the ADF left cover assembly. Remove the ADF rear cover. Go to “ADF rear cover removal” on page 4-173.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Scanner Motor Tests. 4. Touch ADF registration drv mtr. 5. Touch Forward or reverse. <p>Does the ADF registration motor operate properly?</p>	Go to step 9.	Go to step 8.
87	<p>Check the ADF registration motor for connection. Is the above motor connected properly?</p>	<p>Replace the ADF registration motor. Go to “ADF registration motor removal” on page 4-209.</p>	Replace the connection.
9	<p>Check the inverter solenoid assembly for operation. Perform the inverter solenoid test. Open the ADF left cover assembly. Remove the ADF front cover assembly. Go to “ADF front cover assembly removal” on page 4-174. Close the ADF left cover assembly.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Scanner Motor Tests. 4. Touch Inverter solenoid. <p>Does the inverter solenoid assembly operate properly?</p>	Go to step 11.	Go to step 10.
10	<p>Check the inverter solenoid assembly for connection. Is the above motor connected properly?</p>	<p>Replace the inverter solenoid assembly. Go to “Inverter solenoid assembly removal” on page 4-181.</p>	Replace the connection.
11	<p>Place an undamaged document in the ADF, and perform a ADF test. Does the error remain?</p>	<p>Replace the ADF controller card assembly. Go to “ADF controller card assembly removal” on page 4-175.</p>	Go to step 12.
12	<p>Place an undamaged document in the ADF, and perform a ADF test. Does the error remain?</p>	<p>Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.</p>	Problem solved.

Previous



Next



Go Back

294.02 Sensor (ADF pre-registration) off jam on inverting

Step	Check	Yes	No
1	<p>Check the original document condition.</p> <p>Is the original document free of paper clips and staples as well as damage such as creases, tears, holes, or excessive wear?</p>	Go to step 2.	Remove damaged original document and replace with a new undamaged original document. Perform a ADF test. If the problem remains, go to step 2.
2	<p>Check the ADF rolls for wear.</p> <p>Is the ADF feed/pick roll assembly or the ADF separation roll guide assembly free of excess wear?</p>	Go to step 3.	<p>Clean or replace the ADF feed/pick roll assembly or the ADF separation roll guide assembly.</p> <p>Go to “ADF feed/pick roll assembly removal” on page 4-186 or “ADF separation roll guide assembly” on page 4-203.</p>
3	<p>Check the media path for contaminates.</p> <p>Is the media path free of excess media dust and foreign objects such as paper clips and staples?</p>	Go to step 4.	Remove all contaminates from the media path.
4	<p>Check the sensor (sheet through) for operation.</p> <p>Perform the sensor (sheet through) test.</p> <p>Open the ADF left cover assembly.</p> <p>Remove the ADF rear cover. Go to “ADF rear cover removal” on page 4-173.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch SCANNER TESTS. 3. Touch Sensor Tests. 4. Touch Sheet through. <p>Does the display on the operator panel change every time the sensing area of the above sensor is blocked?</p>	Go to step 6.	Go to step 5.
5	<p>Check the sensor (sheet through) for connection.</p> <p>Is the above sensor connected properly?</p>	<p>Replace the sensor (sheet through).</p> <p>Go to “Sensor (sheet through) removal” on page 4-208.</p>	Replace the connection.

Previous



Next



Go Back

Step	Check	Yes	No
6	<p>Check the sensor (ADF pre registration) for operation. Perform the sensor (ADF pre registration) test. Open the ADF left cover assembly.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch SCANNER TESTS. 3. Touch Sensor Tests. 4. Touch ADF pre registration. <p>Operate the actuator of the sensor (ADF pre registration). Does the display on the operator panel change every time the sensing area of the above sensor is blocked?</p>	Go to step 8.	Go to step 7.
7	<p>Check the sensor (ADF pre-registration) for connection. Is the above sensor connected properly?</p>	Replace the sensor (ADF pre-registration). Go to “Sensor (ADF pre-registration)” on page 4-196.	Replace the connection.
8	<p>Check the feed drive motor for correct operation. Perform the feed drive motor test. Open the ADF left cover assembly. Remove the ADF rear cover. Go to “ADF rear cover removal” on page 4-173.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Scanner Motor Tests. 4. Touch ADF feed drv mtr. <p>Does the feed drive motor rotate properly?</p>	Go to step 10.	Go to step 9.
9	<p>Check the feed drive motor for connection. Is the above sensor connected properly?</p>	Replace the ADF feed drive motor assembly. Go to “ADF feed drive motor assembly removal” on page 4-180.	Replace the connection.
10	<p>Check the inverter solenoid assembly for operation. Perform the inverter solenoid test. Open the ADF left cover assembly. Remove the ADF front cover assembly. Go to “ADF front cover assembly removal” on page 4-174. Close the ADF left cover assembly.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Scanner Motor Tests. 4. Touch Inverter solenoid. <p>Does the inverter solenoid assembly operate properly?</p>	Go to step 12.	Go to step 11.

Previous



Next



Go Back

Step	Check	Yes	No
11	Check the inverter solenoid assembly for connection. Is the above motor connected properly?	Replace the inverter solenoid assembly. Go to "Inverter solenoid assembly removal" on page 4-181.	Replace the connection.
12	Check the registration motor (forward or reverse) test. Perform the registration motor test. Open the ADF left cover assembly. Remove the ADF rear cover. Go to "ADF rear cover removal" on page 4-173. 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Scanner Motor Tests. 4. Touch ADF registration drv mtr. 5. Touch Forward or reverse. Does the ADF registration motor operate properly?	Go to step 14.	Go to step 13.
13	Check the ADF registration motor for connection. Is the above motor connected properly?	Replace the ADF registration motor. Go to "ADF registration motor removal" on page 4-209.	Replace the connection.
14	Place an undamaged document in the ADF, and perform a ADF test. Does the error remain?	Replace the ADF controller card assembly. Go to "ADF controller card assembly removal" on page 4-175.	Go to step 15.
15	Place an undamaged document in the ADF, and perform a ADF test. Does the error remain?	Replace the RIP card assembly. Go to "RIP card assembly removal" on page 4-130.	Problem solved.

Previous



Next



Go Back

295.00 Size mismatch jam (mix-size)

Step	Check	Yes	No
1	Check the document tray media guide position. Are the document tray media guides set correctly?	Go to step 2.	Adjust the document tray media guides to the proper position.

Step	Check	Yes	No
2	<p>Check the sensor (ADF width APS 1) for operation. Perform the sensor (ADF width APS 1) test. Open the ADF left cover assembly.</p> <p>1. Enter the Diagnostics Menu. 2. Touch SCANNER TESTS. 3. Touch Sensor Tests. 4. Touch ADF width APS 1.</p> <p>Operate the actuator of the sensor (ADF width APS 1). Does the display on the operator panel change every time the sensing area of the above sensor is blocked?</p>	Go to step 2.	Go to step 3.
3	<p>Check the sensor (ADF width APS 1) for connection. Is the above sensor connected properly?</p>	<p>Replace the sensor (ADF width APS 1). Go to “Sensor (ADF width APS 1)” on page 4-192.</p>	Replace the connection.
4	<p>Check the sensor (ADF width APS 2) for operation. Perform the sensor (ADF width APS 2) test. Open the ADF left cover assembly.</p> <p>1. Enter the Diagnostics Menu. 2. Touch SCANNER TESTS. 3. Touch Sensor Tests. 4. Touch ADF width APS 2.</p> <p>Operate the actuator of the sensor (ADF width APS 2). Does the display on the operator panel change every time the sensing area of the above sensor is blocked?</p>	Go to step 6.	Go to step 5.
5	<p>Check the sensor (ADF width APS 2) for connection. Is the above sensor connected properly?</p>	<p>Replace the sensor (ADF width APS 2). Go to “Sensor (ADF width APS 2)” on page 4-193.</p>	Replace the connection.
6	<p>Check the sensor (ADF width APS 3) for operation. Perform the sensor (ADF width APS 3) test. Open the ADF left cover assembly.</p> <p>1. Enter the Diagnostics Menu. 2. Touch SCANNER TESTS. 3. Touch Sensor Tests. 4. Touch ADF width APS 3.</p> <p>Operate the actuator of the sensor (ADF width APS 3). Does the display on the operator panel change every time the sensing area of the above sensor is blocked?</p>	Go to step 8.	Go to step 7.

Previous



Next



Go Back

Step	Check	Yes	No
7	Check the sensor (ADF width APS 3) for connection. Is the above sensor connected properly?	Replace the sensor (ADF width APS 3). Go to “Sensor (ADF width APS 3)” on page 4-194.	Replace the connection.
8	Place an undamaged document in the ADF, and perform a ADF test. Does the error remain?	Replace the ADF controller card assembly. Go to “ADF controller card assembly removal” on page 4-175.	Go to step 9.
9	Place an undamaged document in the ADF, and perform a ADF test. Does the error remain?	Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.	Problem solved.

Previous



Next



Go Back

295.01 Size mismatch jam (no mix-size)

Step	Check	Yes	No
1	Check the document size. Is the correct size document being inserted into the ADF?	Go to step 2.	Insert the proper size document into the ADF.
2	Check the document tray media guide position. Are the document tray media guides set correctly?	Go to step 3.	Adjust the document tray media guides to the proper position.
3	Check the connection of each ADF controller card assembly connector. Is each connector of ADF controller card assembly connected properly?	Go to step 4.	Connect each connector of ADF controller card assembly properly.
4	Perform a POR. Does the error remain when the power is turned off/on?	Replace the ADF controller card assembly. Go to “ADF controller card assembly removal” on page 4-175.	Problem solved.
5	Place an undamaged document in the ADF, and perform a ADF test. Does the error remain?	Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.	Problem solved.

295.02 Invalid combine size jam

Step	Check	Yes	No
1	Check the document size. Is the correct size document being inserted into the ADF?	Go to step 2.	Insert the proper size document into the ADF.
2	Check the document tray media guide position. Are the document tray media guides set correctly?	Go to step 3.	Adjust the document tray media guides to the proper position.
3	Check the connection of each ADF controller card assembly connector. Is each connector of ADF controller card assembly connected properly?	Go to step 4.	Connect each connector of ADF controller card assembly properly.
4	Check the sensor (ADF width APS 1) for operation. Perform the sensor (ADF width APS 1) test. Open the ADF left cover assembly. 1. Enter the Diagnostics Menu. 2. Touch SCANNER TESTS . 3. Touch Sensor Tests . 4. Touch ADF width APS 1 . Operate the actuator of the sensor (ADF width APS 1). Does the display on the operator panel change every time the sensing area of the above sensor is blocked?	Go to step 6.	Go to step 5.
5	Check the sensor (ADF width APS 1) for connection. Is the above sensor connected properly?	Replace the sensor (ADF width APS 1). Go to “Sensor (ADF width APS 1)” on page 4-192 .	Replace the connection.
6	Check the sensor (ADF width APS 2) for operation. Perform the sensor (ADF width APS 2) test. Open the ADF left cover assembly. 1. Enter the Diagnostics Menu. 2. Touch SCANNER TESTS . 3. Touch Sensor Tests . 4. Touch ADF width APS 2 . Operate the actuator of the sensor (ADF width APS 2). Does the display on the operator panel change every time the sensing area of the above sensor is blocked?	Go to step 8.	Go to step 7.
7	Check the sensor (ADF width APS 2) for connection. Is the above sensor connected properly?	Replace the sensor (ADF width APS 2). Go to “Sensor (ADF width APS 2)” on page 4-193 .	Replace the connection.

Previous



Next



Go Back

Step	Check	Yes	No
8	<p>Check the sensor (ADF width APS 3) for operation. Perform the sensor (ADF width APS 3) test. Open the ADF left cover assembly.</p> <p>1. Enter the Diagnostics Menu. 2. Touch SCANNER TESTS. 3. Touch Sensor Tests. 4. Touch ADF width APS 3.</p> <p>Operate the actuator of the sensor (ADF width APS 3). Does the display on the operator panel change every time the sensing area of the above sensor is blocked?</p>	Go to step 10.	Go to step 9.
9	<p>Check the sensor (ADF width APS 3) for connection. Is the above sensor connected properly?</p>	<p>Replace the sensor (ADF width APS 3). Go to “Sensor (ADF width APS 3)” on page 4-194.</p>	Replace the connection.
10	<p>Perform a POR. Does the error remain when the power is turned off/on?</p>	<p>Replace the ADF controller card assembly. Go to “ADF controller card assembly removal” on page 4-175.</p>	Problem solved.
11	<p>Place an undamaged document in the ADF, and perform a ADF test. Does the error remain?</p>	<p>Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.</p>	Problem solved.

Previous



Next



Go Back

295.03 Too short size jam

Step	Check	Yes	No
1	<p>Check the document size. Is the correct size document being inserted into the ADF?</p>	Go to step 2.	Insert the proper size document into the ADF.

Step	Check	Yes	No
2	<p>Check the sensor (sheet through) for operation. Perform the sensor (sheet through) test. Open the ADF left cover assembly. Remove the ADF rear cover. Go to “ADF rear cover removal” on page 4-173.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch SCANNER TESTS. 3. Touch Sensor Tests. 4. Touch Sheet through. <p>Does the display on the operator panel change every time the sensing area of the above sensor is blocked?</p>	Go to step 4.	Go to step 3.
3	<p>Check the sensor (sheet through) for connection. Is the above sensor connected properly?</p>	<p>Replace the sensor (sheet through). Go to “Sensor (sheet through) removal” on page 4-208.</p>	Replace the connection.
4	<p>Check the sensor (ADF pre registration) for operation. Perform the sensor (ADF pre registration) test. Open the ADF left cover assembly.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch SCANNER TESTS. 3. Touch Sensor Tests. 4. Touch ADF pre registration. <p>Operate the actuator of the sensor (ADF pre registration). Does the display on the operator panel change every time the sensing area of the above sensor is blocked?</p>	Go to step 6.	Go to step 5.
5	<p>Check the sensor (ADF pre-registration) for connection. Is the above sensor connected properly?</p>	<p>Replace the sensor (ADF pre-registration). Go to “Sensor (ADF pre-registration)” on page 4-196.</p>	Replace the connection.
6	<p>Place an undamaged document in the ADF, and perform a ADF test. Does the error remain?</p>	<p>Replace the ADF controller card assembly. Go to “ADF controller card assembly removal” on page 4-175.</p>	Go to step 7.
7	<p>Place an undamaged document in the ADF, and perform a ADF test. Does the error remain?</p>	<p>Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.</p>	Problem solved.

Previous



Next



Go Back

295.04 Too long size jam

Step	Check	Yes	No
1	Check the document size. Is the correct size document being inserted into the ADF?	Go to step 2.	Insert the proper size document into the ADF.
2	Check the sensor (sheet through) for operation. Perform the sensor (sheet through) test. Open the ADF left cover assembly. Remove the ADF rear cover. Go to “ADF rear cover removal” on page 4-173. 1. Enter the Diagnostics Menu. 2. Touch SCANNER TESTS. 3. Touch Sensor Tests. 4. Touch Sheet through. Does the display on the operator panel change every time the sensing area of the above sensor is blocked?	Go to step 4.	Go to step 3.
3	Check the sensor (sheet through) for connection. Is the above sensor connected properly?	Replace the sensor (sheet through). Go to “Sensor (sheet through) removal” on page 4-208.	Replace the connection.
4	Check the sensor (ADF pre registration) for operation. Perform the sensor (ADF pre registration) test. Open the ADF left cover assembly. 1. Enter the Diagnostics Menu. 2. Touch SCANNER TESTS. 3. Touch Sensor Tests. 4. Touch ADF pre registration. Operate the actuator of the sensor (ADF pre registration). Does the display on the operator panel change every time the sensing area of the above sensor is blocked?	Go to step 6.	Go to step 5.
5	Check the sensor (ADF pre-registration) for connection. Is the above sensor connected properly?	Replace the sensor (ADF pre-registration). Go to “Sensor (ADF pre-registration)” on page 4-196.	Replace the connection.
6	Place an undamaged document in the ADF, and perform a ADF test. Does the error remain?	Replace the ADF controller card assembly. Go to “ADF controller card assembly removal” on page 4-175.	Go to step 7.

Previous



Next



Go Back

Step	Check	Yes	No
7	Place an undamaged document in the ADF, and perform a ADF test. Does the error remain?	Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.	Problem solved.

Previous



Next



Go Back

298.01 Scanner cable missing or unplugged

Step	Check	Yes	No
1	Check the scanner interface cable assembly for damage. Is the above component's connecting pins free from damage?	Go to step 2.	Replace the scanner interface cable assembly.
2	Check the scanner interface cable assembly for proper connection. Is the above component properly connected?	Go to step 3.	Replace the connections.
3	Check the scanner main power connection under the scanner top rear cover. Is the above component properly connected?	Go to step 4.	Replace the connections.
4	Check the scanner main power connection. Is the above component properly connected?	Go to step 5.	Replace the connections.
5	Check the multiple connections on the scanner controller card assembly. Are all the connections on the above component properly connected?	Replace the scanner controller card assembly. Go to “Scanner controller card assembly removal” on page 4-151.	Replace the connections.
6	Perform a POR. Does the error remain when the power is turned off/on again?	Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.	Problem solved.

841.00 Image pipeline ASIC failure

Step	Check	Yes	No
1	Perform a POR. Does the error occur when the power is turned off/on?	Go to step 2.	Perform several print tests. If the problem remains, go to step 2.

Step	Check	Yes	No
2	Turn the printer off for 60 seconds. Does the error occur when the power is turned off/on again?	Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.	Problem solved.

Previous



Next



Go Back

842.00 Scanner communication failure

Step	Check	Yes	No
1	Check the scanner interface cable assembly connection between the RIP card assembly and the scanner unit assembly. Is the scanner interface cable assembly connected properly?	Go to step 2.	Replace the connection.
2	Check all connections of the scanner controller card assembly. Are the connections of the scanner controller card assembly connected properly?	Go to step 3.	Connect each connector of the scanner controller card assembly properly.
3	Perform a POR. Does the error remain when the power is turned off/on?	Replace the scanner controller card assembly. Go to “Scanner controller card assembly removal” on page 4-151. Go to step 4.	Problem solved.
4	Perform a POR. Does the error remain when the power is turned off/on again?	Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.	Problem solved.

842.01 Scanner communication failure

Step	Check	Yes	No
1	Check the scanner interface cable assembly connection between the RIP card assembly and the scanner unit assembly. Is the scanner interface cable assembly connected properly?	Go to step 2.	Replace the connection.
2	Check all connections of the scanner controller card assembly. Are the connections of the scanner controller card assembly connected properly?	Go to step 3.	Connect each connector of the scanner controller card assembly properly.

Step	Check	Yes	No
3	Perform a POR. Does the error remain when the power is turned off/on?	Replace the scanner controller card assembly. Go to “Scanner controller card assembly removal” on page 4-151. Go to step 4.	Problem solved.
4	Perform a POR. Does the error remain when the power is turned off/on again?	Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.	Problem solved.

Previous



Next



Go Back

842.02 Scanner communication failure

Step	Check	Yes	No
1	Check the scanner interface cable assembly connection between the RIP card assembly and the scanner unit assembly. Is the scanner interface cable assembly connected properly?	Go to step 2.	Replace the connection.
2	Check all connections of the scanner controller card assembly. Are the connections of the scanner controller card assembly connected properly?	Go to step 3.	Connect each connector of the scanner controller card assembly properly.
3	Perform a POR. Does the error remain when the power is turned off/on?	Replace the scanner controller card assembly. Go to “Scanner controller card assembly removal” on page 4-151. Go to step 4.	Problem solved.
4	Perform a POR. Does the error remain when the power is turned off/on again?	Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.	Problem solved.

842.03 Scanner communication failure

Step	Check	Yes	No
1	Check the scanner interface cable assembly connection between the RIP card assembly and the scanner unit assembly. Is the scanner interface cable assembly connected properly?	Go to step 2.	Replace the connection.
2	Check all connections of the scanner controller card assembly. Are the connections of the scanner controller card assembly connected properly?	Go to step 3.	Connect each connector of the scanner controller card assembly properly.
3	Perform a POR. Does the error remain when the power is turned off/on?	Replace the scanner controller card assembly. Go to “Scanner controller card assembly removal” on page 4-151. Go to step 4.	Problem solved.
4	Perform a POR. Does the error remain when the power is turned off/on again?	Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.	Problem solved.

Previous



Next



Go Back

842.04 Scanner communication failure

Step	Check	Yes	No
1	Check the scanner interface cable assembly connection between the RIP card assembly and the scanner unit assembly. Is the scanner interface cable assembly connected properly?	Go to step 2.	Replace the connection.
2	Check all connections of the scanner controller card assembly. Are the connections of the scanner controller card assembly connected properly?	Go to step 3.	Connect each connector of the scanner controller card assembly properly.
3	Perform a POR. Does the error remain when the power is turned off/on?	Replace the scanner controller card assembly. Go to “Scanner controller card assembly removal” on page 4-151. Go to step 4.	Problem solved.

Step	Check	Yes	No
4	Perform a POR. Does the error remain when the power is turned off/on again?	Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.	Problem solved.

Previous



Next



Go Back

842.10 Scanner unit assembly - ADF communication failure

Step	Check	Yes	No
1	Check all connections of the scanner controller card assembly. Are the connections of the scanner controller card assembly connected properly?	Go to step 2.	Replace all connections.
2	Check all connections of the ADF controller card assembly. Are the connections of the ADF controller card assembly connected properly?	Go to step 3.	Replace all connections.
3	Perform a POR. Does the error remain when the power is turned off/on?	Replace the ADF controller card assembly. Go to “ADF controller card assembly removal” on page 4-175.	Problem solved.
4	Perform a POR. Does the error remain when the power is turned off/on?	Replace the scanner controller card assembly. Go to “Scanner controller card assembly removal” on page 4-151.	Problem solved.

842.11 Scanner communication failure (by scanner)

Step	Check	Yes	No
1	Check all connections of the scanner controller card assembly. Are the connections of the scanner controller card assembly connected properly?	Go to step 2.	Replace all connections.
2	Check all connections of the ADF controller card assembly. Are the connections of the ADF controller card assembly connected properly?	Go to step 3.	Replace all connections.

Step	Check	Yes	No
3	Perform a POR. Does the error remain when the power is turned off/on?	Replace the ADF controller card assembly. Go to “ADF controller card assembly removal” on page 4-175.	Problem solved.
4	Perform a POR. Does the error remain when the power is turned off/on?	Replace the scanner controller card assembly. Go to “Scanner controller card assembly removal” on page 4-151.	Problem solved.

Previous



Next



Go Back

842.12 Scanner unit assembly communication failure

Step	Check	Yes	No
1	Check all connections of the scanner controller card assembly. Are the connections of the scanner controller card assembly connected properly?	Go to step 2.	Replace all connections.
2	Check all connections of the ADF controller card assembly. Are the connections of the ADF controller card assembly connected properly?	Go to step 3.	Replace all connections.
3	Perform a POR. Does the error remain when the power is turned off/on?	Replace the ADF controller card assembly. Go to “ADF controller card assembly removal” on page 4-175.	Problem solved.
4	Perform a POR. Does the error remain when the power is turned off/on?	Replace the scanner controller card assembly. Go to “Scanner controller card assembly removal” on page 4-151.	Problem solved.

843.00 Sensor (scanner HP) failure

Step	Check	Yes	No
1	Check the scanner carriage rails. Is there any foreign substance on the scanner rails?	Clean and lubricate the scanner carriage rails.	Go to step 2.
2	Check the sensor (scanner HP) for operation. Perform the sensor (scanner HP) test. Remove the large platen glass. Go to “Large platen glass removal” on page 4-150. 1. Enter the Diagnostics Menu. 2. Touch SCANNER TESTS. 3. Touch Sensor Tests. 4. Touch Scanner HP. Gently move the scanner carriage side to side. Does the display on the operator panel change every time the sensing area of the above sensor is blocked?	Go to step 4.	Go to step 3.
3	Check the sensor (scanner HP) for connection. Is the above sensor connected properly?	Replace the sensor (scanner HP). Go to “Sensor (scanner HP) removal” on page 4-159.	Replace the connection.
4	Check the scanner drive motor assembly. Perform the scanner drive motor test. 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Scanner Motor Tests. 4. Touch Scanner drv mtr. 5. Touch Forward or reverse. Does the scanner drive motor assembly operate properly?	Go to step 6.	Go to step 5.
5	Check the scanner drive motor assembly for connection. Is the above motor connected properly?	Replace the scanner drive motor assembly. Go to “Scanner drive motor assembly removal” on page 4-163.	Replace the connection.
6	Place media on the large platen and perform a scanner test. Does the error remain?	Replace the scanner controller card assembly. Go to “Scanner controller card assembly removal” on page 4-151.	Problem solved.

Previous



Next



Go Back

843.01 Scanner carriage over run failure

Previous



Next



Go Back

Step	Check	Yes	No
1	Check the connections of the scanner controller card assembly. Are the connectors of the scanner controller card assembly connected properly?	Go to step 2.	Connect each connector of the scanner controller card assembly properly.
2	Perform a POR. Does the error remain when the power is turned off/on?	Replace the scanner controller card assembly. Go to “Scanner controller card assembly removal” on page 4-151.	Problem solved.

843.10 ADF RAM test failure

Step	Check	Yes	No
1	Check the connection between the ADF controller card assembly and the scanner controller card assembly Are the ADF controller card assembly and the scanner controller card assembly connected properly?	Replace the ADF controller card assembly. Go to “ADF controller card assembly removal” on page 4-175.	Connect the ADF controller card assembly and the scanner controller card assembly properly.
2	Perform a POR. Does the error remain when the power is turned off/on?	Replace the scanner controller card assembly. Go to “Scanner controller card assembly removal” on page 4-151.	Go to step 3.

843.11 ADF EEPROM failure

Step	Check	Yes	No
1	Check the connection of each ADF controller card assembly connector. Is each connector of ADF controller card assembly connected properly?	Go to step 2.	Connect each connector of ADF controller card assembly properly.

Step	Check	Yes	No
2	Perform a POR. Does the error remain when the power is turned off/on?	Replace the ADF controller card assembly. Go to “ADF controller card assembly removal” on page 4-175.	Problem solved.

Previous



Next



Go Back

843.12 ADF pick roll position lift up failure

Step	Check	Yes	No
1	Check the feed/pick roll assembly. Remove the left cover media guide. Does The feed/pick roll assembly moves smoothly up/down when the gears are manually rotated?	Go to step 2.	Replace the feed/pick roll assembly.
2	Check the sensor (pick roll position HP) for operation. Perform the sensor (pick roll position HP) test. Open the ADF left cover assembly. Remove the ADF left cover media guide. Go to “ADF left cover media guide removal” on page 4-189. 1. Enter the Diagnostics Menu. 2. Touch SCANNER TESTS. 3. Touch Sensor Tests. 4. Touch Pick roll position HP. Manually rotate the gears of the pick roll position motor assembly to raise and lower the pick roll. Does the display on the operator panel change every time the sensing area of the above sensor is blocked?	Go to step 4.	Go to step 3.
3	Check the sensor (pick roll position HP) for connection. Is the above sensor connected properly?	Replace the sensor (pick roll position HP). Go to “Sensor (pick roll position HP) removal” on page 4-185.	Replace the connection.
4	Check the pick roll position motor assembly. Perform the pick roll position motor test. Open ADF left cover assembly. Override the switch (ADF left cover interlock). 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Scanner Motor Tests. 4. Touch Pick roll position mtr. Does the pick roll position motor assembly raise and lower properly?	Go to step 6.	Go to step 5.

Step	Check	Yes	No
5	Check the pick roll position motor assembly for connection. Is the above motor connected properly?	Replace the pick roll position motor assembly. Go to “Pick roll position motor assembly removal” on page 4-190.	Replace the connection.
6	Place an undamaged document in the ADF, and perform a ADF test. Does the error remain?	Replace the ADF controller card assembly. Go to “ADF controller card assembly removal” on page 4-175.	Go to step 7.

Previous



Next



Go Back

843.20 Scanner unit assembly connection failure

Step	Check	Yes	No
1	Check the connection of each ADF controller card assembly connector. Is each connector of ADF controller card assembly connected properly?	Go to step 2.	Connect each connector of ADF controller card assembly properly.
2	Check the connection of each RIP card assembly connector. Are the connectors of the RIP card assembly connected properly?	Go to step 3.	Connect each connector of the RIP card assembly properly.
3	Perform a POR. Does the error remain when the power is turned off/on?	Replace the ADF controller card assembly. Go to “ADF controller card assembly removal” on page 4-175.	Problem solved.

843.21 Scanner unit assembly EEPROM failure

Step	Check	Yes	No
1	Check the connections of the scanner controller card assembly connector Is each connector of scanner controller card assembly connected properly?	Go to step 2.	Connect each connector of the scanner controller card assembly properly.

Step	Check	Yes	No
2	Perform a POR. Does the error remain when the power is turned off/on?	Replace the ADF controller card assembly. Go to “ADF controller card assembly removal” on page 4-175.	Problem solved.

Previous



Next



Go Back

843.22 Scanner unit assembly EEPROM sub system failure

Step	Check	Yes	No
1	Check the connection of each scanner controller card assembly connector. Are the connectors of the scanner controller card assembly connected properly?	Go to step 2.	Connect each connector of the scanner controller card assembly properly.
2	Perform a POR. Does the error remain when the power is turned off/on?	Replace the scanner controller card assembly. Go to “Scanner controller card assembly removal” on page 4-151.	Problem solved.

843.23 Scanner cooling fan failure

Step	Check	Yes	No
1	Check the scanner cooling fan operation. Perform the scanner cooling fan test. Remove the rear upper cover. Go to “Rear upper cover removal” on page 4-15. 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Scanner Motor Tests. 4. Touch Scanner cooling fan. Does the scanner cooling fan speed increase when the test is performed?	Go to step 2.	Replace the scanner controller card assembly. Go to “Scanner controller card assembly removal” on page 4-151.
2	Check the scanner cooling fan for connection. Is the above fan connected properly?	Replace the scanner cooling fan. Go to “Scanner cooling fan removal” on page 4-164.	Replace the connection.

Step	Check	Yes	No
3	Perform a POR. Does the error remain when the power is turned off/on?	Replace the scanner controller card assembly. Go to “Scanner controller card assembly removal” on page 4-151.	Problem solved.

Previous



Next



Go Back

843.24 Image processing failure

Step	Check	Yes	No
1	Check the connections of the scanner controller card assembly. Are the connectors of the scanner controller card assembly connected properly?	Go to step 2.	Connect each connector of the scanner controller card assembly properly.
2	Check the software version for the scanner controller card assembly. Is the version of the software of the scanner controller card assembly correct?	Go to step 3.	Upgrade the software of the scanner controller card assembly.
2	Perform a POR. Does the error remain when the power is turned off/on?	Replace the scanner controller card assembly. Go to “Scanner controller card assembly removal” on page 4-151.	Problem solved.

843.25 Scanner controller card assembly failure 1

Step	Check	Yes	No
1	Check the connection of each scanner controller card assembly connector. Is each connector of scanner controller card assembly connected properly?	Go to step 2.	Connect each connector of scanner controller card assembly properly.
2	Perform a POR. Does the error remain when the power is turned off/on?	Replace the scanner controller card assembly. Go to “Scanner controller card assembly removal” on page 4-151.	Problem solved.

Step	Check	Yes	No
3	Perform a POR. Does the error remain when the power is turned off/on again?	Replace the scanner PS card assembly. Go to “Scanner PS card assembly removal” on page 4-162.	Problem solved.

Previous



Next



Go Back

843.26 Scanner controller card assembly failure 2

Step	Check	Yes	No
1	Check the connection of each scanner controller card assembly connector. Is each connector of scanner controller card assembly connected properly?	Go to step 2.	Connect each connector of scanner controller card assembly properly.
2	Perform a POR. Does the error remain when the power is turned off/on?	Replace the scanner controller card assembly. Go to “Scanner controller card assembly removal” on page 4-151.	Problem solved.
3	Perform a POR. Does the error remain when the power is turned off/on again?	Replace the scanner PS card assembly. Go to “Scanner PS card assembly removal” on page 4-162.	Problem solved.

844.00 Exposure lamp failure

Step	Check	Yes	No
1	Check the exposure lamp for operation. Perform the exposure lamp test. 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Scanner Motor Tests. 4. Touch Exposure lamp. Does the exposure lamp operate properly?	Go to step 6.	Go to step 3.

Step	Check	Yes	No
2	Check the exposure lamp for connection. Is the above component connected properly?	Replace the exposure lamp. Go to “Exposure lamp removal” on page 4-166.	Replace the connection.
3	Check the exposure lamp PS card assembly. Is the above card properly connected to the scanner controller card assembly?	Replace the exposure lamp PS card assembly. Go to “Exposure lamp PS card assembly removal” on page 4-165.	Replace the connection.
4	Check the scanner PS card assembly for connection. Is the above card connected properly?	Replace the scanner PS card assembly. Go to “Scanner PS card assembly removal” on page 4-162.	Replace the connection.
5	Perform a POR. Does the error remain when the power is turned off/on?	Replace the scanner controller card assembly. Go to “Scanner controller card assembly removal” on page 4-151.	Problem solved.

Previous



Next



Go Back

844.01 White reference/exposure lamp illumination failure

Step	Check	Yes	No
1	Check the large platen glass. Is the large platen glass installed properly?	Go to step 2.	Remove and clean the large platen glass. Go to “Large platen glass removal” on page 4-150. Reinstall the large platen glass properly. Go to step 3.

Step	Check	Yes	No
2	Remove the large platen glass. Check the bottom of the large platen glass in the vicinity the white reference strip for contamination. Is the vicinity of white reference strip contaminated?	Clean the bottom of the large platen glass in the vicinity of the white reference strip. Reinstall the large platen glass properly. Go to step 3.	Go to step 4.
3	Perform a POR. Does the error remain?	Go to step 4.	Problem solved.
4	Check the exposure lamp for operation. Perform the exposure lamp test. 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS . 3. Touch Scanner Motor Tests . 4. Touch Exposure lamp . Does the exposure lamp operate properly?	Go to step 8.	Go to step 5.
5	Check the exposure lamp for connection. Is the above component connected properly?	Replace the exposure lamp. Go to "Exposure lamp removal" on page 4-166 .	Replace the connection.
6	Check the exposure lamp PS card assembly. Is the above card properly connected to the scanner controller card assembly?	Replace the exposure lamp PS card assembly. Go to "Exposure lamp PS card assembly removal" on page 4-165 .	Replace the connection.
7	Check the scanner PS card assembly for connection. Is the above card connected properly?	Replace the scanner PS card assembly. Go to "Scanner PS card assembly removal" on page 4-162 .	Replace the connection.
8	Perform a POR. Does the error continue when the power is turned off/on?	Replace the scanner controller card assembly. Go to "Scanner controller card assembly removal" on page 4-151 .	Problem solved.

Previous



Next



Go Back

845.00 CCD failure

Step	Check	Yes	No
1	Check the CCD/lens assembly connection. Is the CCD/lens assembly connected properly?	Go to step 2.	Replace the connection.
2	Check all the connections on the scanner controller card assembly. Are all the connections connected properly?	Replace the CCD/lens assembly.	Replace the connection.
3	Perform a POR. Does the error remain?	Replace the scanner controller card assembly. Go to “Scanner controller card assembly removal” on page 4-151.	

Previous



Next



Go Back

845.01 CCD initialization (lamp on) failure

Step	Check	Yes	No
1	Check the exposure lamp for operation. Perform the exposure lamp test. 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Scanner Motor Tests. 4. Touch Exposure lamp. Does the exposure lamp operate properly?	Go to step 6.	Go to step 3.
2	Check the exposure lamp for connection. Is the above component connected properly?	Replace the exposure lamp. Go to “Exposure lamp removal” on page 4-166.	Replace the connection.
3	Check the exposure lamp PS card assembly. Is the above card properly connected to the scanner controller card assembly?	Replace the exposure lamp PS card assembly. Go to “Exposure lamp PS card assembly removal” on page 4-165.	Replace the connection.
4	Check the scanner PS card assembly for connection. Is the above card connected properly?	Replace the scanner PS card assembly. Go to “Scanner PS card assembly removal” on page 4-162.	Replace the connection.

Step	Check	Yes	No
5	Perform a POR. Does the error remain when the power is turned off/on?	Replace the scanner controller card assembly. Go to “Scanner controller card assembly removal” on page 4-151.	Problem solved.

Previous



Next



Go Back

845.02 CCD initialization (lamp off) failure

Step	Check	Yes	No
1	Check the connection of the scanner controller card assembly. Are the connectors of the scanner controller card assembly connected properly?	Go to step 2.	Connect each connector of the scanner controller card assembly properly.
2	Perform a POR. Does the error remain when the power is turned off/on?	Replace the scanner controller card assembly. Go to “Scanner controller card assembly removal” on page 4-151.	Problem solved.
3	Perform a POR. Does the error remain when the power is turned off/on again?	Replace the scanner PS card assembly. Go to “Scanner PS card assembly removal” on page 4-162.	Problem solved.

846.00 Scanner communication failure

Step	Check	Yes	No
1	Check the scanner interface cable assembly connection between the RIP card assembly and the scanner unit assembly. Is the scanner interface cable assembly connected properly?	Go to step 2.	Replace the connection.
2	Check all connections of the scanner controller card assembly. Are the connections of the scanner controller card assembly connected properly?	Go to step 3.	Connect each connector of the scanner controller card assembly properly.

Step	Check	Yes	No
3	Perform a POR. Does the error remain when the power is turned off/on?	Replace the scanner controller card assembly. Go to “Scanner controller card assembly removal” on page 4-151. Go to step 4.	Problem solved.

Previous



Next



Go Back

846.01 Scanner communication failure

Step	Check	Yes	No
1	Check the scanner interface cable assembly connection between the RIP card assembly and the scanner unit assembly. Is the scanner interface cable assembly connected properly?	Go to step 2.	Replace the connection.
2	Check all connections of the scanner controller card assembly. Are the connections of the scanner controller card assembly connected properly?	Go to step 3.	Connect each connector of the scanner controller card assembly properly.
3	Perform a POR. Does the error remain when the power is turned off/on?	Replace the scanner controller card assembly. Go to “Scanner controller card assembly removal” on page 4-151. Go to step 4.	Problem solved.

846.10 Sensor (ADF width APS X) failure

Step	Check	Yes	No
1	Check the sensor (ADF width APS 1) for operation. Perform the sensor (ADF width APS 1) test. Open the ADF left cover assembly. 1. Enter the Diagnostics Menu. 2. Touch SCANNER TESTS. 3. Touch Sensor Tests. 4. Touch ADF width APS 1. Operate the actuator of the sensor (ADF width APS 1). Does the display on the operator panel change every time the sensing area of the above sensor is blocked?	Go to step 2.	Go to step 3.

Step	Check	Yes	No
2	Check the sensor (ADF width APS 1) for connection. Is the above sensor connected properly?	Replace the sensor (ADF width APS 1). Go to “Sensor (ADF width APS 1)” on page 4-192.	Replace the connection.
3	Check the sensor (ADF width APS 2) for operation. Perform the sensor (ADF width APS 2) test. Open the ADF left cover assembly. 1. Enter the Diagnostics Menu. 2. Touch SCANNER TESTS. 3. Touch Sensor Tests. 4. Touch ADF width APS 2. Operate the actuator of the sensor (ADF width APS 2). Does the display on the operator panel change every time the sensing area of the above sensor is blocked?	Go to step 6.	Go to step 5.
4	Check the sensor (ADF width APS 2) for connection. Is the above sensor connected properly?	Replace the sensor (ADF width APS 2). Go to “Sensor (ADF width APS 2)” on page 4-193.	Replace the connection.
5	Check the sensor (ADF width APS 3) for operation. Perform the sensor (ADF width APS 3) test. Open the ADF left cover assembly. 1. Enter the Diagnostics Menu. 2. Touch SCANNER TESTS. 3. Touch Sensor Tests. 4. Touch ADF width APS 3. Operate the actuator of the sensor (ADF width APS 3). Does the display on the operator panel change every time the sensing area of the above sensor is blocked?	Go to step 8.	Go to step 7.
6	Check the sensor (ADF width APS 3) for connection. Is the above sensor connected properly?	Replace the sensor (ADF width APS 3). Go to “Sensor (ADF width APS 3)” on page 4-194.	Replace the connection.
7	Place an undamaged document in the ADF, and perform a ADF test. Does the error remain?	Replace the ADF controller card assembly. Go to “ADF controller card assembly removal” on page 4-175.	Go to step 8.

Previous



Next



Go Back

846.12 Scanner unit assembly software logic failure

Previous



Next



Go Back

Step	Check	Yes	No
1	Check the software version for the scanner controller card assembly. Is the version of the software of the scanner controller card assembly correct?	Go to step 2.	Upgrade the software of the scanner controller card assembly.
2	Perform a POR. Does the error remain when the power is turned off/on?	Replace the scanner controller card assembly. Go to “Scanner controller card assembly removal” on page 4-151.	Problem solved.

846.13 Switch (platen interlock) open

Step	Check	Yes	No
1	Check the ADF for opening and closing. Does the ADF lay completely flush on the scanner unit when it is in its closed position?	Go to step 2.	Inspect and adjust the ADF left hinge and right hinge as required.
2	Check the sensor (ADF angle) for proper installation. Is the sensor (ADF angle) installed correctly?	Go to step 3.	Reinstall the sensor (ADF angle).
3	Check the sensor (ADF angle) for operation. Perform the sensor (ADF angle) test. 1. Enter the Diagnostics Menu. 2. Touch SCANNER TESTS. 3. Touch Sensor Tests. 4. Touch ADF angle. Open and close the ADF unit assembly. Does the display on the operator panel change every time the sensing area of the above sensor is blocked?	Go to step 5.	Go to step 4.
4	Check the sensor (ADF angle) for connection. Is the above sensor connected properly?	Replace the sensor (ADF angle). Go to “Sensor (ADF angle) removal” on page 4-161.	Replace the connection.

Step	Check	Yes	No
5	Place an undamaged document in the ADF, and perform a ADF test. Does the error remain?	Replace the scanner controller card assembly. Go to “Scanner controller card assembly removal” on page 4-151.	Go to step 6.

Previous



Next



Go Back

849.00 Hard drive failure

Step	Check	Yes	No
1	Check the hard drive data and power connections. Are the above connections connected properly?	Replace the hard drive. Go to “RIP card chassis bracket removal” on page 4-127.	Replace the connections.
2	Perform a POR. Does the error remain when the power is turned off/on again?	Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.	Problem solved.

900.xx System software error

There are different types of 900.xx errors that can occur. There may be a communication problem (Bad cable, network connection, and so on) software issue, or a hardware problem with the controller board, or ISP (Internal solutions port). The communication and software aspects should be checked first. Determine if the problem is constant or intermittent. Use the troubleshooting procedure below to isolate the issue. Take any notes as instructed. You will need that information in the event you need to contact your next level support.

Note: Before troubleshooting, determine the operating system used when the error occurred. If possible determine whether a PostScript or PCL file was sent to the device when the error occurred. Ask the customer which Lexmark Solutions applications are installed on the device.

Previous



Next



Go Back

Step	Action and questions	Yes	No
1	POR the device. Does the error reoccur?	Go to step 2.	Problem resolved.
2	<ul style="list-style-type: none"> • Write down the exact 900.xx error code displayed on the device. • Turn the device off. • Clear the print queues. • Disconnect all communication cables, and remove all memory options. • Remove all ISP and modem cards. • Restart the device into diagnostic mode. Does the 900.xx error reoccur during startup?	Go to step 3.	Go to step 6.
3	Check all the cables connected to the RIP board for proper connectivity. Are the cables properly connected?	Go to step 5.	Go to step 4.
4	Properly connect the cables to the RIP board. Restart the device into diagnostic mode. Does the 900.xx error reoccur during startup?	Go to step 5.	Go to step 6.
5	Replace the RIP board, and restart the device. Does this fix the problem? Note: If an error, different from the original 900.xx, is displayed, consult the service check for that error.	Problem resolved.	Go to step 31.
6	Print the following: <ul style="list-style-type: none"> • Error log • Menu settings page • Network settings page Does the 900.xx error reoccur while these pages were printing?	Go to step 31.	Go to step 7.
7	Re-attach the communications cable. Restart the printer to operating mode. Send the printer a print job. Does the 900.xx error reoccur? Note: Before performing this step, write down this information about the file being sent to the printer: <ul style="list-style-type: none"> • Application used • Operating system • Driver type • File type (PCL, PostScript, XPS, etc.) 	Go to step 8.	Go to step 10.

Step	Action and questions	Yes	No
8	Restart the printer to operating mode. Send a different print job to the device. Does the 900.xx error reoccur?	Go to step 9.	Go to step 10.
9	Upgrade the firmware. Contact your next level of support for the correct firmware level to use. Restart the printer to operating mode. Send the printer a print job. Does the 900.xx error reoccur?	Go to step 31.	Go to step 10.
10	Is the device a Multi Function Printer?	Go to step 11.	Go to step 13.
11	Run a copy job. Does the 900.xx error reoccur?	Go to step 31.	Go to step 12.
12	Run a scan to PC job. Does the 900.xx error reoccur?	Go to step 31.	Go to step 13.
13	Is there optional memory installed?	Go to step 14.	Go to step 16.
14	Reinstall the memory, and send a print job to the device. Does the 900.xx error reoccur?	Go to step 15.	Go to step 16.
15	Install a Lexmark recommended memory option. Send a print job to the device. Does the 900.xx error reoccur?	Go to step 31.	Problem resolved.
16	Is there a modem installed on the device?	Go to step 17.	Go to step 21.
17	Reinstall the modem. Restart the device. Does the 900.xx error reoccur?	Go to step 18.	Go to step 20.
18	Upgrade the firmware. Contact your next level of support for the correct firmware level to use. Restart the printer to operating mode. Send the printer a print job. Does the 900.xx error reoccur?	Go to step 19.	Problem resolved.
19	Replace the modem. Restart the device. Does the 900.xx error reoccur?	Go to step 31.	Problem resolved.
20	Run a fax job. Does the 900.xx error reoccur?	Go to step 31.	Go to step 21.
21	Are there any ISP (internal solutions port) options installed?	Go to step 22.	Problem resolved.
22	Reinstall the first ISP option. Restart the device. Does the 900.xx error reoccur?	Go to step 24.	Go to step 23.
23	Run a job to test the option. Does the 900.xx error reoccur?	Go to step 24.	Go to step 26.
24	Upgrade the firmware. Contact your next level of support for the correct firmware level to use. Restart the printer to operating mode. Does the 900.xx error reoccur?	Go to step 25.	Problem resolved.

Previous



Next



Go Back

Step	Action and questions	Yes	No
25	Replace the faulty ISP option. Restart the device. Does the 900.xx error reoccur?	Go to step 31.	Go to step 26.
26	Are there any more ISP options to install?	Go to step 27	Problem resolved.
27	Install the next ISP option. Restart the device. Does the 900.xx error reoccur?	Go to step 29.	Go to step 28.
28	Run a job to test the option. Does the 900.xx error reoccur?	Go to step 29.	Go to step 26.
29	Upgrade the firmware. Contact your next level of support for the correct firmware level to use. Restart the printer to operating mode. Does the 900.xx error reoccur?	Go to step 30.	Go to step 26.
30	Replace the faulty ISP option. Restart the device. Does the 900.xx error reoccur?	Go to step 31.	Go to step 26.
31	Contact your next level of support. You will need the following information for them: <ul style="list-style-type: none"> • Exact 900.xx error digits and complete error message • Printed menu settings page • Printed network settings page • Device error log • A sample print file if error appears to be isolated to a single file • File/Application used if error is related to specific print file • Device Operating System • Driver used (PCL/PS) • Frequency of the occurrence of the error 		

Previous



Next



Go Back

903.00 RAM read/write check failure

Step	Check	Yes	No
1	Perform a POR. Does the error occur when the power is turned off/on?	Go to step 2.	Perform several print tests. If the problem remains, go to step 2.
2	Turn the printer off for 60 seconds. Does the error occur when the power is turned off/on again?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119. Go to step 3.	Problem solved.
3	Perform a print test. Does the error still occur?	Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.	Problem solved.

904.00 NVM data failure

Step	Check	Yes	No
1	Perform a POR. Does the error occur when the power is turned off/on?	Go to step 2.	Perform several print tests. If the problem remains, go to step 2.
2	Turn the printer off for 60 seconds. Does the error occur when the power is turned off/on again?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119. Go to step 3.	Problem solved.
3	Perform a print test. Does the error still occur?	Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.	Problem solved.

Previous



Next



Go Back

905.00 NVM read/write cannot be executed failure

Step	Check	Yes	No
1	Perform a POR. Does the error occur when the power is turned off/on?	Go to step 2.	Perform several print tests. If the problem remains, go to step 2.
2	Turn the printer off for 60 seconds. Does the error occur when the power is turned off/on again?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119. Go to step 3.	Problem solved.
3	Perform a print test. Does the error still occur?	Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.	Problem solved.

906.00 CPU power to access NVM failure

Step	Check	Yes	No
1	Perform a POR. Does the error occur when the power is turned off/on?	Go to step 2.	Perform several print tests. If the problem remains, go to step 2.
2	Turn the printer off for 60 seconds. Does the error occur when the power is turned off/on again?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119. Go to step 3.	Problem solved.
3	Perform a print test. Does the error still occur?	Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.	Problem solved.

Previous



Next



Go Back

907.00 RFID ASIC failure

Step	Check	Yes	No
1	Perform a POR. Does the error occur when the power is turned off/on?	Go to step 2.	Perform several print tests. If the problem remains, go to step 2.
2	Turn the printer off for 60 seconds. Does the error occur when the power is turned off/on again?	Go to step 3.	Problem solved.
3	Check connector P419 on the printer engine card assembly. Is connector P419 on the printer engine card assembly properly connected?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119. Go to step 4.	Replace the connection.
4	Perform a print test. Does the error still occur?	Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.	Problem solved.

908.00 PPM data failure

Step	Check	Yes	No
1	Perform a POR. Does the error occur when the power is turned off/on?	Go to step 2.	Perform several print tests. If the problem remains, go to step 2.
2	Turn the printer off for 60 seconds. Does the error occur when the power is turned off/on again?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119. Go to step 3.	Problem solved.
3	Perform a print test. Does the error still occur?	Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.	Problem solved.

Previous



Next



Go Back

909.00 Zero cross failure

Step	Check	Yes	No
1	Perform a POR. Does the error occur when the power is turned off/on?	Go to step 2.	Perform several print tests. If the problem remains, go to step 2.
2	Turn the printer off for 60 seconds. Does the error occur when the power is turned off/on again?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

910.00 Transport motor stop failure

Step	Check	Yes	No
1	Check the dual drive motor assembly installation. Is the dual drive motor assembly properly installed? Open the rear motor cover and check it.	Go to step 2.	Install the PC cartridge properly.

Step	Check	Yes	No
2	<p>Check the dual drive motor assembly rotation operation. Open the rear motor cover and check it.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Printer Motor Test. 4. Touch Transport motor. <p>Does the motor rotate normally?</p>	Go to step 4	Go to step 3.
3	<p>Check the dual drive motor assembly connection. Is the dual drive motor assembly properly connected?</p>	<p>Replace the dual drive motor assembly.</p> <p>Go to “Dual drive motor assembly removal” on page 4-114.</p>	Replace the connection.
4	<p>Perform a print test. Does the error continue?</p>	<p>Replace the printer engine card assembly.</p> <p>Go to “Printer engine card assembly removal” on page 4-119.</p>	Problem solved.

Previous



Next



Go Back

911.00 Transport motor failure

Step	Check	Yes	No
1	<p>Check the dual drive motor assembly for operation. Open the rear motor cover and check it.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Printer Motor Test. 4. Touch Transport motor. <p>Does the motor rotate normally?</p>	Go to step 3	Go to step 2.
2	<p>Check the dual drive motor assembly for proper installation. Remove the rear motor cover and check it. Is the dual drive motor assembly installed properly?</p>	Go to step 3.	Install the dual drive motor assembly properly.
3	<p>Check the rotation of the rotor in the dual drive motor assembly. Open the rear motor cover and check it. Can the rotor be rotated by hand without excessive load?</p>	Go to step 4.	Install the dual drive motor assembly properly.
4	<p>Check the dual drive motor assembly connection. Is the dual drive motor assembly properly connected?</p>	<p>Replace the dual drive motor assembly.</p> <p>Go to “Dual drive motor assembly removal” on page 4-114.</p>	Replace the connection.

Step	Check	Yes	No
5	Perform a print test. Does the error continue?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

Previous



Next



Go Back

912.00 PC cartridge unit motor failure

Step	Check	Yes	No
1	Check the PC cartridge for proper installation. Is the PC cartridge installed properly?	Go to step 2.	Install the PC cartridge properly.
2	Check the dual drive motor assembly for operation. Open the rear motor cover and check it. 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Printer Motor Test. 4. Touch Drum unit motor. Does the motor rotate normally.	Go to step 4	Go to step 3.
3	Check the dual drive motor assembly for proper installation. Open the rear motor cover and check it. Is the dual drive motor assembly installed properly?	Go to step 4.	Install the dual drive motor assembly properly.
4	Check the rotation of the rotor in the dual drive motor assembly. Open the rear motor cover and check it. Can the rotor be rotated by hand without excessive load?	Go to step 5.	Install the dual drive motor assembly properly.
5	Check the dual drive motor assembly connection. Is the dual drive motor assembly properly connected?	Replace the dual drive motor assembly. Go to “Dual drive motor assembly removal” on page 4-114.	Replace the connection.
6	Perform a print test. Does the error continue?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

913.00 Printhead assembly failure

Step	Check	Yes	No
1	Check the printhead assembly for proper installation. Is the printhead assembly installed properly?	Go to step 2.	Install the printhead assembly properly.
2	Check the printhead assembly connection. Is the printhead assembly properly connected?	Replace the printhead.	Replace the connection.
3	Perform a print test. Does the error continue?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

Previous



Next



Go Back

914.00 Toner add motor assembly failure

Step	Check	Yes	No
1	Check the toner cartridge for proper installation. Remove the toner cartridge and reinstall it. Does it operate properly?	Problem solved.	Go to step 2.
2	Check the gear rotation for the toner cartridge guide assembly. Remove the toner guide assembly. Does the gear, located at the lower part of the toner cartridge guide assembly, rotate smoothly?	Go to step 3.	Replace the toner cartridge guide assembly.
3	Check the toner cartridge guide assembly for pipe clogging. Is the pipe, located at the lower part of the toner cartridge guide assembly, clogged?	Go to step 4.	Clean the pipe.
4	Check the toner add motor assembly for operation. Warning: Only perform this test in segments of three seconds or less, or toner spill will occur. Remove the top cover assembly. Go to “Top cover assembly removal” on page 4-5. Override the switch (printer front door interlock) 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Printer Motor Test. 4. Touch Toner add motor. Observe the toner add motor for rotation. Note: When performing this test, the drum unit motor will also operate. Does the motor rotate normally?	Go to step 6.	Go to step 5.

Step	Check	Yes	No
5	Check the toner add motor assembly connection. Is the toner add motor assembly properly connected?	Replace the toner add motor. “Toner cartridge guide assembly removal” on page 4-95	Replace the connection.
6	Perform a print test. Does the error continue?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

Previous



Next



Go Back

915.00 Fuser cooling fan failure

Step	Check	Yes	No
1	Check the fuser cooling fan for proper installation. Is the fuser cooling fan installed properly?	Go to step 2.	Install the fuser cooling fan properly.
2	Visually check the fuser cooling fan for rotation. Is the fuser cooling fan visually rotating?	Go to step 5.	Go to step 3.
3	Check the fuser cooling fan for operation. 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Printer Motor Test. 4. Touch Fuser cooling fan. Does the fuser cooling fan RPM increase?	Go to step 5.	Go to step 4.
4	Check the fuser cooling fan for connection. Is CN102 on the dual drive motor assembly connected properly?	Replace the fuser cooling fan.	Replace the connection.
5	Perform a print test. Does the error continue?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

916.00 PC cartridge cooling fan failure

Step	Check	Yes	No
1	Visually check the PC cartridge cooling fan rotation. Is the PC cartridge cooling fan visually rotating?	Go to step 3.	Go to step 2.

Step	Check	Yes	No
2	Check the PC cartridge cooling fan. Is there an object blocking the PC cartridge cooling fan rotation?	Remove the object blocking the rotation.	Go to step 3.
3	Check the PC cartridge cooling fan for operation. 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS . 3. Touch Printer Motor Test . 4. Touch PC unit cooling fan . Does the fan rotate normally?	Go to step 5.	Go to step 4.
4	Check the PC cartridge cooling fan connection. Is the PC cartridge cooling fan properly connected?	Replace the PC cartridge cooling fan. Go to " PC cartridge cooling fan removal " on page 4-102.	Replace the connection.
5	Perform a print test. Does the error continue?	Replace the printer engine card assembly. Go to " Printer engine card assembly removal " on page 4-119.	Problem solved.

Previous



Next



Go Back

917.00 LVPS cooling fan failure

Step	Check	Yes	No
1	Check the LVPS cooling fan for proper installation. Is the LVPS cooling fan installed properly?	Go to step 2.	Install the LVPS cooling fan properly.
2	Visually check the LVPS cooling fan for rotation. Is the LVPS cooling fan visually rotating?	Go to step 3.	Go to step 4.
3	Check the LVPS cooling fan connection. Is the LVPS cooling fan connected properly?	Replace the LVPS cooling fan. Go to " LVPS cooling fan removal " on page 4-121.	Replace the connection.
4	Perform a print test. Does the error remains?	Replace the LVPS card assembly. Go to " LVPS card assembly removal " on page 4-120.	Problem solved.

918.00 Sensor (exit 1 media shift HP) failure

Step	Check	Yes	No
1	<p>Check the sensor (exit 1 media shift HP) for operation.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch BASE SENSOR TEST. 3. Touch Media Path. 4. Touch Exit1 shift HP. <p>Move the shift assembly, with your finger, in a side to side motion.</p> <p>Does the display on the operator panel change every time the sensing area is blocked?</p>	Go to step 3.	Go to step 2.
2	<p>Check the sensor (exit 1 media shift HP) for connection.</p> <p>Is the sensor (exit 1 media shift HP) connected?</p>	<p>Replace the sensor (exit 1 media shift HP).</p> <p>Go to “Exit 1 media shift assembly removal” on page 4-105.</p>	Replace the connection.
3	<p>Check the media shift motor for operation.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Printer Motor Test. 4. Touch Exit1 shift motor. <p>Note: A continuous operation check is allowed up to twice for each direction.</p> <p>Does the motor operate normally?</p>	Go to step 5.	Go to step 4.
4	<p>Check the media shift motor for connection.</p> <p>Is the above motor connected properly?</p>	<p>Replace the media exit shift motor.</p> <p>Go to “Media shift motor removal” on page 4-108.</p>	Replace the connection.
5	<p>Check the printer engine card assembly for connection P421 and the exit interface card assembly connector P431.</p> <p>Are the above cards connected properly?</p>	<p>Replace the exit interface card assembly.</p> <p>Go to “Exit interface card assembly removal” on page 4-117.</p>	Replace the connection.
6	<p>Perform a print test.</p> <p>Does the error still occur?</p>	<p>Replace the printer engine card assembly</p> <p>Go to “Printer engine card assembly removal” on page 4-119.</p>	Problem solved.

Previous



Next



Go Back

919.00 Sensor (exit 2 media shift HP) failure

Step	Check	Yes	No
1	<p>Check the sensor (exit 2 media shift HP) for proper operation.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch BASE SENSOR TEST. 3. Touch Media Path. 4. Touch Exit2 shift HP. <p>Move the shift assembly with your finger in a side to side motion.</p> <p>Does the display on the operator panel change every time the sensing area of the above sensor is blocked?</p>	Go to step 3.	Go to step 2.
2	<p>Check the sensor (exit 2 media shift HP) for proper connection.</p> <p>Is the above sensor connected properly?</p>	<p>Replace the sensor (exit 2 media shift HP).</p> <p>Go to “Exit 2 sensor (exit 2 media shift HP) removal” on page 4-336.</p>	Replace the connection.
3	<p>Check the media shift motor for proper operation.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Printer Motor Test. 4. Touch Exit2 shift mtr. <p>Does the above motor rotate properly?</p>	Go to step 5.	Go to step 4.
4	<p>Check the media shift motor for proper connection.</p> <p>Is the above motor connected properly?</p>	<p>Replace the media shift motor.</p> <p>Go to “Exit 2 unit assembly removal” on page 4-322.</p>	Replace the connection.
5	<p>Perform a print test.</p> <p>Does the error still occur?</p>	<p>Replace the exit interface card assembly.</p> <p>Go to “Exit interface card assembly removal” on page 4-117.</p> <p>Go to step 6.</p>	Problem solved.
6	<p>Perform a print test.</p> <p>Does the error still occur?</p>	<p>Replace the printer engine card assembly.</p> <p>Go to “Printer engine card assembly removal” on page 4-119.</p>	Problem solved.

Previous



Next



Go Back

919.01 Exit 2 unit assembly connection failure

Step	Check	Yes	No
1	Check the exit 2 unit assembly for proper installation. Is the exit 2 unit assembly installed properly?	Go to step 2.	Reinstall the exit 2 unit assembly, and POR. Go to “Exit 2 unit assembly removal” on page 4-322.
2	Check the exit 2 unit assembly connector. Is the exit 2 unit assembly connector or the connector attached to the printer damaged?	Replace the exit 2 unit assembly or damaged connector. Go to “Exit 2 unit assembly removal” on page 4-322.	Go to step 3.
3	Perform a print test. Does the error still occur?	Replace the exit interface card assembly. Go to “Exit interface card assembly removal” on page 4-117. Go to step 4.	Problem solved.
4	Perform a print test. Does the error still occur?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

Previous





Next



Go Back

920.00 Fuser unit assembly on time failure

Step	Check	Yes	No
1	Check the fuser unit assembly for a media jam. Open the printer left door assembly, and check it. Is there a media jam in the fuser unit assembly?	Remove the media.	Go to step 2.
2	Leave the printer powered on with the error code displayed for 10 minutes, then perform a POR. Does the error still occur?	Go to step 3.	Problem solved.
3	Check the fuser unit assembly for proper installation. Open the printer left door assembly, and check it. Is the fuser unit assembly installed properly?	Go to step 4.	Install the fuser unit assembly properly.
4	Check the fuser unit assembly connection. Is the fuser unit assembly properly connected?	Go to step 5.	Replace the connection. 
5	Check between the LVPS card assembly P525 and the printer engine card assembly P401 for proper connection. Are the cards connected properly?	Replace the fuser unit assembly.	Replace the connection. 

Step	Check	Yes	No
6	Perform a print test. Does the error continue?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

Previous





Next




Go Back


921.00 Over heat temperature failure

Step	Check	Yes	No
1	Check the fuser unit assembly for proper installation. Open the printer left door assembly, and check it. Is the fuser unit assembly installed properly?	Go to step 2.	Install the fuser unit assembly properly.
2	Check the fuser unit assembly for proper connection.	Go to step 3.	Replace the connection. 
3	Check the connection between the LVPS card assembly P525 and the printer engine card assembly P401. Are the cards connected properly?	Replace the fuser unit assembly.	Replace the connection. 
4	Perform a print test. Does the error continue?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

922.00 Center thermistor failure

Step	Check	Yes	No
1	Check the fuser unit assembly for proper installation. Open the printer left door assembly, and check it. Is the fuser unit assembly installed properly?	Go to step 2.	Install the fuser unit assembly properly.
2	Check the fuser unit assembly connection. Is the fuser unit assembly properly connected?	Replace the fuser unit assembly.	Replace the connection. 
3	Perform a print test. Does the error continue?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

923.00 Rear thermistor failure

Step	Check	Yes	No
1	Check the fuser unit assembly for proper installation. Open the printer left door assembly, and check it. Is the fuser unit assembly installed properly?	Go to step 2.	Install the fuser unit assembly properly.
2	Check the fuser unit assembly connection. Is the fuser unit assembly properly connected?	Replace the fuser unit assembly.	Replace the connection. 
3	Perform a print test. Does the error continue?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

Previous




Next





Go Back

924.00 Pressure roll thermistor failure

Step	Check	Yes	No
1	Check the fuser unit assembly for proper installation. Open the printer left door assembly, and check it. Is the fuser unit assembly installed properly?	Go to step 2.	Install the fuser unit assembly properly.
2	Check the fuser unit assembly connection. Is the fuser unit assembly properly connected?	Replace the fuser unit assembly.	Replace the connection. 
3	Perform a print test. Does the error continue?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

925.00 Fuser operating temperature failure

Step	Check	Yes	No
1	Check the fuser unit assembly for a media jam. Open the printer left door assembly, and check it. Is there a media jam in the fuser unit assembly?	Go to the step 2.	Remove the media.
2	Leave the printer powered on with the error code displayed for 10 minutes, then perform a POR. Does the error still occur?	Go to step 3.	Problem solved.

Step	Check	Yes	No
3	Check the fuser unit assembly for proper installation. Open the printer left door assembly, and check it. Is the fuser unit assembly installed properly?	Go to step 4.	Install the fuser unit assembly properly.
4	Check the fuser unit assembly connection. Is the fuser unit assembly properly connected?	Go to step 5.	Replace the connection. 
5	Check the connection between the LVPS card assembly P525 and the printer engine card assembly P401. Are the cards connected properly?	Replace the fuser unit assembly.	Replace the connection. 
6	Perform a print test. Does the error continue?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

Previous



Next



Go Back

927.00 PC cartridge RFID data write failure

Step	Check	Yes	No
1	Check the PC cartridge installation. Is the PC cartridge properly installed?	Go to step 2.	Install the PC cartridge properly.
2	Check the sensor (RFID PC cartridge) installation. Is the sensor (RFID PC cartridge) properly installed?	Go to step 3.	Install the sensor (RFID PC cartridge) correctly.
3	Check the sensor (RFID PC cartridge) connection. Is the sensor (RFID PC cartridge) properly connected?	Replace the sensor (RFID PC cartridge).	Replace the connection.
4	Perform a print test. Does the error continue?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

928.00 PC cartridge RFID communication failure

Step	Check	Yes	No
1	Check the PC cartridge installation. Is the PC cartridge properly installed?	Go to step 2.	Install the PC cartridge properly.

Step	Check	Yes	No
2	Check the sensor (RFID PC cartridge) installation. Is the sensor (RFID PC cartridge) properly installed?	Go to step 3.	Install the sensor (RFID PC cartridge) correctly.
3	Check the sensor (RFID PC cartridge) connection. Is the sensor (RFID PC cartridge) properly connected?	Replace the sensor (RFID PC cartridge).	Replace the connection.
4	Perform a print test. Does the error continue?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

Previous



Next



Go Back

929.00 Sensor (ATC) failure

Step	Check	Yes	No
1	Check the PC cartridge installation. Is the PC cartridge properly installed?	Go to step 2.	Install the PC cartridge properly.
2	Perform a POR. Does the error continue?	Replace the PC cartridge.	Problem solved.

930.00 Laser power failure

Step	Check	Yes	No
1	Check the printhead assembly for proper installation. Is the printhead assembly installed properly?	Go to step 2.	Install the printhead assembly properly.
2	Check the printhead assembly connection. Is the printhead assembly properly connected?	Replace the printhead.	Replace the connection.
3	Perform a print test. Does the error continue?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.
4	Perform a print test. Does the error continue?	Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.	Problem solved.

932.00 Toner cartridge RFID data write failure

Step	Check	Yes	No
1	Check the toner cartridge installation. Is the toner cartridge properly installed?	Go to step 2.	Install the toner cartridge properly.
2	Check the sensor (RFID toner cartridge) installation. Is the sensor (RFID toner cartridge) properly installed?	Go to step 3.	Install the sensor (RFID toner cartridge) correctly.
3	Check the sensor (RFID toner cartridge) connection. Is the sensor (RFID toner cartridge) properly connected?	Replace the sensor (RFID toner cartridge).	Replace the connection.
4	Perform a print test. Does the error continue?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

Previous



Next



Go Back

933.00 Toner cartridge RFID communication failure

Step	Check	Yes	No
1	Check the toner cartridge installation. Is the toner cartridge properly installed?	Go to step 2.	Install the toner cartridge properly.
2	Check the sensor (RFID toner cartridge) installation. Is the sensor (RFID toner cartridge) properly installed?	Go to step 3.	Install the sensor (RFID toner cartridge) correctly.
3	Check the sensor (RFID toner cartridge) connection. Is the sensor (RFID toner cartridge) properly connected?	Replace the sensor (RFID toner cartridge).	Replace the connection.
4	Perform a print test. Does the error continue?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

939.00 RIP card assembly communication failure

Step	Check	Yes	No
1	Perform a POR. Does the error occur when the power is turned off/on?	Go to step 2.	Perform several print tests. If the problem remains, go to step 2.

Step	Check	Yes	No
2	Turn the printer off for 60 seconds. Does the error occur when the power is turned off/on again?	Go to step 3.	Problem solved.
3	Check the RIP card assembly connection. Is the RIP card assembly connection JHAB2 and the printer engine card assembly connection P402 connected properly?	Replace the RIP card assembly. Go to "RIP card assembly removal" on page 4-130. Go to step 4.	Replace the connection.
4	Perform a print test. Does the error still occur?	Replace the printer engine card assembly. Go to "Printer engine card assembly removal" on page 4-119.	Problem solved.

Previous



Next



Go Back

941.00 Media tray 1 lift up / no media tray failure

Step	Check	Yes	No
1	Check the media. Pull out the media tray 1, and visually check it. Is the media loaded in tray 1?	Go to step 2.	Load media properly.
2	Check the media tray. Replace media tray 1 with media tray 2. Is the replaced media tray lifted up?	Go to step 3.	Go to step 4.
3	Check the media tray. Are the tray lift sector gear 12T, of media tray 1, or surrounding parts damaged?	Replace the media tray lift sector gear 12T or other damaged components.	Go to step 4.
4	Check the tray 1 media feed lift motor for proper operation. Warning: Only perform this test with the paper tray assembly removed from the machine, or abnormal grinding noises will occur. 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Printer Tests. 4. Touch Tray 1 lift mtr. Does the tray 1 media feed lift motor operate properly?	Go to step 8.	Go to step 5.
5	Is the tray 1 media feed lift motor properly connected?	Replace the media feed lift motor. Go to "Media feed lift motor removal" on page 4-33. Go to step 6.	Replace the connection.

Step	Check	Yes	No
6	<p>Check the tray 1 sensor (media level) for operation.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch INPUT TRAY TESTS. 3. Touch Sensor test. 4. Touch Tray 1. 5. Touch Media level. <p>Remove the media tray assembly. Move the pick roll, with your finger, up and down.</p> <p>Note: Avoid touching the rubber roll surface. Does the display on the operator panel change every time the sensing area is blocked?</p>	Go to step 8.	Go to step 7.
7	<p>Check the tray 1 sensor (media level) connection. Is the tray 1 sensor (media level) properly connected?</p>	<p>Replace the sensor (media level).</p> <p>Go to “Sensor (media level) removal” on page 4-39.</p>	Replace the connection.
8	<p>Check the tray 1 switch (media size) for proper connection. Is the switch connected properly?</p>	<p>Replace the switch (media size).</p> <p>Go to “Switch (media size) removal” on page 4-19.</p>	Replace the connection.
9	<p>Perform a print test. Does the error continue?</p>	<p>Replace the printer engine card assembly.</p> <p>Go to “Printer engine card assembly removal” on page 4-119.</p>	Problem solved.

Previous



Next



Go Back

942.00 Media tray 2 lift up / no media tray failure

Step	Check	Yes	No
1	<p>Check the media. Pull out the media tray 2, and visually check it. Is the media loaded in tray 2?</p>	Go to step 2.	Load media properly.
2	<p>Check the media tray. Replace media tray 2 with media tray 1. Is the replaced media tray lifted up?</p>	Go to step 3.	Go to step 4.
3	<p>Check the media tray. Are the tray lift sector gear 12T, of media tray 2, or surrounding parts damaged?</p>	Replace the media tray lift sector gear 12T or other damaged components.	Go to step 4.

Step	Check	Yes	No
4	<p>Check the tray 2 media feed lift motor for proper operation.</p> <p>Warning: Only perform this test with the paper tray assembly removed from the machine, or abnormal grinding noises will occur.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Printer Tests. 4. Touch Tray 2 lift mtr. <p>Does the tray 2 media feed lift motor operate properly?</p>	Go to step 8.	Go to step 5.
5	<p>Is the tray 2 media feed lift motor properly connected?</p>	<p>Replace the media feed lift motor.</p> <p>Go to “Media feed lift motor removal” on page 4-33.</p> <p>Go to step 6.</p>	Replace the connection.
6	<p>Check the tray 2 sensor (media level) for operation.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch INPUT TRAY TESTS. 3. Touch Sensor test. 4. Touch Tray 2. 5. Touch Media level. <p>Remove the media tray assembly.</p> <p>Move the pick roll, with your finger, up and down.</p> <p>Note: Avoid touching the rubber roll surface.</p> <p>Does the display on the operator panel change every time the sensing area is blocked?</p>	Go to step 8.	Go to step 7.
7	<p>Check the tray 2 sensor (media level) connection.</p> <p>Is the tray 2 sensor (media level) properly connected?</p>	<p>Replace the sensor (media level).</p> <p>Go to “Sensor (media level) removal” on page 4-39.</p>	Replace the connection.
8	<p>Check the tray 2 switch (media size) for proper connection.</p> <p>Is the switch connected properly?</p>	<p>Replace the switch (media size).</p> <p>Go to “Switch (media size) removal” on page 4-19.</p>	Replace the connection.
8	<p>Perform a print test.</p> <p>Does the error continue?</p>	<p>Replace the printer engine card assembly.</p> <p>Go to “Printer engine card assembly removal” on page 4-119.</p>	Problem solved.

Previous



Next



Go Back

943.00 Tray 3 lift up / no tray failure

Step	Check	Yes	No
1	Check the media. Pull out the tray 3, and visually check it. Is any media loaded in tray 3?	Go to step 2.	Load media properly.
2	Check the tray. Is the tray 3 lift gear assembly or the surrounding parts of it damaged?	Go to step 3.	Replace the tray 3 lift gear assembly or any other damaged parts. Go to “2000-sheet dual input (TTM)—tray 3 lift gear assembly removal” on page 4-278.
3	Check the tray 3 media feed lift motor for proper operation. Warning: Only perform this test with the paper tray assembly removed from the machine, or abnormal grinding noises will occur. 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Printer Tests. 4. Touch Tray 3 lift mtr. Does the tray 3 media feed lift motor operate properly?	Go to step 6.	Go to step 4.
4	Check the tray 3 media feed lift motor for proper connection. Is the above motor connected properly?	Go to step 5.	Replace the connection.
5	Check the 2TM/TTM controller card assembly and the printer engine card assembly for proper connection. Are connectors P541 and P413 on the above cards connected properly?	Go to step 6.	Replace the connection.
6	Check the tray 3 sensor (media level) for proper operation. 1. Enter the Diagnostics Menu. 2. Touch INPUT TRAY TESTS. 3. Touch Sensor Test. 4. Touch Tray 3. 5. Touch Media level. Remove the media tray assembly, and move the pick roll with your finger in an up and down motion. Avoid touching the rubber roll surface. Does the display on the operator panel change every time the sensing area of the above sensor is blocked?	Go to step 8.	Go to step 7.
7	Check the sensor (media level) for proper connection. Is the above sensor connected properly?	Replace the sensor (media level). Go to “2000-sheet dual input (TTM)—sensor (media level) removal” on page 4-261.	Replace the connection.

Previous



Next



Go Back

Step	Check	Yes	No
8	Check the switch (TTM media size) for proper connection. Is the above switch connected properly?	Replace the switch (TTM media size). Go to “2000-sheet dual input (TTM)—switch (TTM media size) removal” on page 4-249.	Replace the connection.
9	Perform a print test. Does the error still occur?	Replace the 2TM/TTM controller card assembly. Go to “2000-sheet dual input (TTM)—2TM/TTM controller card assembly removal” on page 4-281. Go to step 10.	Problem solved.
10	Perform a print test. Does the error still occur?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

Previous



Next



Go Back

944.00 Tray 4 lift up / no tray failure

Step	Check	Yes	No
1	Check the media. Pull out the tray 4, and visually check it. Is any media loaded in tray 4?	Go to step 2.	Load media properly.
2	Check the tray. Are the tray 4 lift gear assembly or the surrounding parts of it damaged?	Go to step 3.	Replace the tray 4 lift gear assembly or the obstacles. Go to “2000-sheet dual input (TTM)—tray 4 lift gear assembly removal” on page 4-279.
3	Check the tray 4 media feed lift motor for proper operation. Warning: Only perform this test with the paper tray assembly removed from the machine, or abnormal grinding noises will occur. 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Printer Tests. 4. Touch Tray 4 lift mtr. Does the tray 4 media feed lift motor operate properly?	Go to step 6.	Go to step 4.
4	Check the tray 4 media feed lift motor for proper connection. Is the above motor connected properly?	Go to step 5.	Replace the connection.

Step	Check	Yes	No
5	Check the 2TM/TTM controller card assembly and the printer engine card assembly for proper connection. Are connectors P541 and P413 on the above cards connected properly?	Go to step 6.	Replace the connection.
6	Check the tray 4 sensor (media level) for proper operation. 1. Enter the Diagnostics Menu. 2. Touch INPUT TRAY TESTS . 3. Touch Sensor Test . 4. Touch Tray 4 . 5. Touch Media level . Remove the media tray assembly, and move the pick roll with your finger in an up and down motion. Avoid touching the rubber roll surface. Does the display on the operator panel change every time the sensing area of the above sensor is blocked?	Go to step 8.	Go to step 7.
7	Check the sensor (media level) for proper connection. Is the above sensor connected properly?	Replace the sensor (media level). Go to “2000-sheet dual input (TTM)—sensor (media level) removal” on page 4-261 .	Replace the connection.
8	Check the tray 4 switch (TTM media size) for proper connection. Is the above switch connected properly?	Replace the switch (TTM media size). Go to “2000-sheet dual input (TTM)—switch (TTM media size) removal” on page 4-249 .	Replace the connection.
9	Perform a print test. Does the error still occur?	Replace the 2TM/TTM controller card assembly. Go to “2000-sheet dual input (TTM)—2TM/TTM controller card assembly removal” on page 4-281 . Go to step 10.	Problem solved.
10	Perform a print test. Does the error still occur?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119 .	Problem solved.

Previous



Next



Go Back

951.XX RIP card assembly NVRAM failure

Step	Check	Yes	No
1	Perform a POR. Does the error occur when the power is turned off/on?	Go to step 2.	Perform several print tests. If the problem remains, go to step 2.
2	Turn the printer off for 60 seconds. Does the error occur when the power is turned off/on again?	Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130. Go to step 3.	Problem solved.

Previous



Next



Go Back

953.XX Operator panel assembly NVRAM failure

Step	Check	Yes	No
1	Perform a POR. Does the error occur when the power is turned off/on?	Go to step 2.	Perform several print tests. If the problem remains, go to step 2.
2	Turn the printer off for 60 seconds. Does the error occur when the power is turned off/on again?	Replace the operator panel assembly. Go to “Operator panel assembly removal” on page 4-135. Go to step 3.	Problem solved.
3	Perform a print test. Does the error still occur?	Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130. Go to step 4.	Problem solved.

955.XX RIP card assembly NAND CRC failure

Step	Check	Yes	No
1	Perform a POR. Does the error occur when the power is turned off/on?	Go to step 2.	Perform several print tests. If the problem remains, go to step 2.

Step	Check	Yes	No
2	Turn the printer off for 60 seconds. Does the error occur when the power is turned off/on again?	Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.	Problem solved.

Previous



Next



Go Back

956.00 RIP card assembly processor failure

Step	Check	Yes	No
1	Perform a POR. Does the error occur when the power is turned off/on?	Go to step 2.	Perform several print tests. If the problem remains, go to step 2.
2	Turn the printer off for 60 seconds. Does the error occur when the power is turned off/on again?	Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.	Problem solved.

956.01 RIP card assembly processor over temperature failure

Step	Check	Yes	No
1	Perform a POR. Does the error occur when the power is turned off/on?	Go to step 2.	Perform several print tests. If the problem remains, go to step 2.
2	Turn the printer off for 60 seconds. Does the error occur when the power is turned off/on again?	Go to step 3.	Problem solved.
3	Check the RIP card cooling fan and heatsink for proper installation. Is the RIP card cooling fan and heatsink installed correctly?	Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.	Install the RIP card cooling fan and heatsink correctly.

956.02 RIP card assembly cooling fan failure

Step	Check	Yes	No
1	Perform a POR. Does the error occur when the power is turned off/on?	Go to step 2.	Perform several print tests. If the problem remains, go to step 2.

Step	Check	Yes	No
2	Turn the printer off for 60 seconds. Does the error occur when the power is turned off/on again?	Go to step 3.	Problem solved.
3	Check the RIP card assembly cooling fan and heatsink attachment. Is the above fan attached properly?	Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.	Reattach the RIP card assembly cooling fan and heatsink.

Previous



Next



Go Back

956.03 RIP card assembly FPGA failure

Step	Check	Yes	No
1	Perform a POR. Does the error occur when the power is turned off/on?	Go to step 2.	Perform several print tests. If the problem remains, go to step 2.
2	Turn the printer off for 60 seconds. Does the error occur when the power is turned off/on again?	Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.	Problem solved.

980.00 2TM/TTM controller card assembly communication failure

Step	Check	Yes	No
1	Check the 2TM/TTM controller card assembly and the printer engine card assembly for proper connection. Are connectors P541 and P413 on the above cards connected properly?	Problem solved.	Replace the connection.
2	Perform a print test. Does the error still occur?	Replace the 2TM/TTM controller card assembly. Go to “2000-sheet dual input (TTM)—2TM/TTM controller card assembly removal” on page 4-281. Go to step 3.	Problem solved.
3	Perform a print test. Does the error still occur?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

980.03 Exit interface card assembly communication failure

Step	Check	Yes	No
1	Check the exit interface card assembly for proper connection.	Go to step 2.	Replace the connection.
2	Check the connection between the exit interface card assembly P430 and the LVPS assembly P526. Are the cards connected properly?	Go to step 3.	Replace the connection.
3	Perform a print test. Does the error continue?	Replace the exit interface card assembly. Go to “Exit interface card assembly removal” on page 4-117.	Problem solved.
4	Perform a print test. Does the error continue?	Replace the printer engine cord assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

Previous



Next



Go Back

980.04 Duplex controller card assembly communication failure

Step	Check	Yes	No
1	Check the duplex unit for proper installation. Remove duplex unit assembly, and reinstall it. Perform a two sided print test. Does the error still occur?	Go to step 2.	Problem solved.
2	Check the duplex controller card assembly and printer engine card assembly for proper connection. Are the connections on the duplex controller card assembly and the connector P417 on the printer engine card assembly connected?	Go to step 3.	Replace the connection.
3	Perform a 2 sided print test. Does the error still occur?	Replace the duplex controller card assembly. Go to “Duplex controller card assembly removal” on page 4-311. Go to step 4.	Problem solved.
4	Perform a 2 sided print test. Does the error still occur?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

980.05 Engine flicker communication failure

Step	Check	Yes	No
1	Perform a POR. Does the error occur when the power is turned off/on?	Go to step 2.	Perform several print tests. If the problem remains, go to step 2.
2	Turn the printer off for 60 seconds. Does the error occur when the power is turned off/on again?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

Previous



Next



Go Back

997.00 Duplex controller card assembly type failure

Step	Check	Yes	No
1	Check the duplex unit for proper installation. Remove duplex unit assembly, and reinstall it. Perform a two sided print test. Does the error still occur?	Go to step 2.	Problem solved.
2	Perform a 2 sided print test. Does the error still occur?	Replace the duplex controller card assembly. Go to “Duplex controller card assembly removal” on page 4-311. Go to step 3.	Problem solved.
3	Perform a 2 sided print test. Does the error still occur?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

2TM/TTM left door assembly open

Previous



Next



Go Back

Step	Check	Yes	No
1	<p>Check the 2TM/TTM left door assembly for opening and closing.</p> <p>Does the 2TM/TTM left door assembly open or close normally?</p>	Go to step 2.	<p>Check the 2TM/TTM left door assembly for deformation, and reinstall it.</p> <p>Go to “2000-sheet dual input (TTM)—2TM/TTM left door assembly removal” on page 4-276.</p>
2	<p>Check the switch (2TM/TTM left door interlock) for proper operation.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch BASE SENSOR TEST. 3. Touch Cover and Door. 4. Touch Door C 2TM/TTM. <p>Open the 2TM/TTM left door assembly, and visually check it.</p> <p>Does the display on the operator panel change every time the actuator on the above switch operates?</p>	Go to step 4.	Go to step 3.
3	<p>Check the switch (2TM/TTM left door interlock) for proper connection.</p> <p>Is the above switch connected properly?</p>	<p>Replace the switch (2TM/TTM left door interlock).</p> <p>Go to “2000-sheet dual input (TTM)—switch (2TM/TTM left door interlock) removal” on page 4-277.</p>	Replace the connection.
4	<p>Check the 2TM/TTM controller card assembly and the printer engine card assembly for proper connection.</p> <p>Are connectors P541 and P413 on the above cards connected properly?</p>	Go to step 5.	Replace the connection.
5	<p>Perform a print test.</p> <p>Does the error still occur?</p>	<p>Replace the 2TM/TTM controller card assembly.</p> <p>Go to “2000-sheet dual input (TTM)—2TM/TTM controller card assembly removal” on page 4-281.</p> <p>Go to step 6.</p>	Problem solved.
6	<p>Perform a print test.</p> <p>Does the error still occur?</p>	<p>Replace the printer engine card assembly.</p> <p>Go to “Printer engine card assembly removal” on page 4-119.</p>	Problem solved.

Duplex left door assembly open

Step	Check	Yes	No
1	Check the duplex left door assembly for opening and closing. Does the duplex left door assembly open or close normally?	Go to step 2.	Check the duplex left cover assembly for deformation and reinstall it.
2	Check the switch (duplex left door interlock) for proper operation. 1. Enter the Diagnostics Menu. 2. Touch DUPLEX TESTS . 3. Touch Sensor Test . 4. Touch Door D duplex left . Open the duplex left door assembly, and visually check it. Does the operator panel change every time the actuator on the above switch operates?	Reconnect the connector on the printer engine card assembly.	Go to step 3.
3	Check the switch (duplex left door interlock) for proper connection. Is the above switch connected properly?	Go to step 4.	Replace the connection.
4	Check the duplex controller card assembly and printer engine card assembly for proper connection. Are the connections on the duplex controller card assembly and the connector P417 on the printer engine card assembly connected?	Go to step 5.	Replace the connection.
5	Perform a 2 sided print test. Does the error still occur?	Replace the duplex controller card assembly. Go to “Duplex controller card assembly removal” on page 4-311 . Go to step 6.	Problem solved.
6	Perform a 2 sided print test. Does the error still occur?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119 .	Problem solved.

Exit 2 left door assembly open

Step	Check	Yes	No
1	Check the exit 2 left door assembly for opening and closing. Does the exit 2 left door assembly open or close normally?	Go to step 2.	Check the exit 2 left door assembly for deformation, and then reinstall it. Go to “Exit 2 left cover removal” on page 4-325 .

Previous



Next



Go Back

Step	Check	Yes	No
2	<p>Check the switch (exit 2 left door interlock) for proper operation.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch BASE SENSOR TEST. 3. Touch Cover and Door. 4. Touch Door E exit2 left. <p>Does the display change on the operator panel every time the actuator for the above switch operates?</p>	Reconnect the connector of the printer engine card assembly.	Go to step 3.
3	<p>Check the switch (exit 2 left door interlock) for proper connection.</p> <p>Is the above switch connected properly?</p>	<p>Replace the switch (exit 2 left door interlock).</p> <p>Go to “Exit 2 switch (exit 2 left door interlock) removal” on page 4-331.</p>	Replace the connection.
4	<p>Perform a print test.</p> <p>Does the error still occur?</p>	<p>Replace the exit interface card assembly.</p> <p>Go to “Exit interface card assembly removal” on page 4-117.</p> <p>Go to step 5.</p>	Problem solved.
5	<p>Perform a print test.</p> <p>Does the error still occur?</p>	<p>Replace the printer engine card assembly.</p> <p>Go to “Printer engine card assembly removal” on page 4-119.</p>	Problem solved.

Previous



Next



Go Back

Media size mismatch in width

Step	Check	Yes	No
1	<p>Check the media.</p> <p>Pull out the tray, and visually check it.</p> <p>Is the media properly loaded in the tray?</p>	Go to step 2.	Load media properly.
2	<p>Check the media.</p> <p>Pull out the tray, and visually check it.</p> <p>Are the front media tray guide assembly, rear media tray guide, and media tray end guide of tray 1 or tray 2 set correctly?</p>	Go to step 3.	Set the guides properly.
3	<p>Check the switch (media size) for proper installation.</p> <p>Pull out the media tray, and visually check it.</p> <p>Is the switch (media size) for media tray 1 and media tray 2 installed correctly?</p>	Go to step 4.	Install the switch (media size) for each media tray correctly.

Step	Check	Yes	No
4	Check the switch (media size) connection for tray 1 and/or tray 2. Is the switch (media size) properly connected for tray 1 and/or tray 2?	Replace the required switch (media size). Go to “Toner cartridge guide assembly removal” on page 4-95.	Replace the connection.
5	Perform a print test. Does the error continue?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

Previous



Next



Go Back

Media size mismatch in width

Step	Check	Yes	No
1	Check the media. Pull out the tray, and visually check it. Is the media loaded in tray properly?	Go to step 2.	Load media properly.
2	Check the media. Pull out the tray, and visually check it. Are the front media guide and rear media guide on tray 3 or tray 4 set correctly?	Go to step 3.	Set the parts correctly.
3	Check the switch (TTM media size) for proper installation. Pull out the tray, and visually check it. Is the switch (TTM media size) for tray 3 or tray 4 installed properly?	Go to step 4.	Install the switch (TTM media size) correctly. Go to “2000-sheet dual input (TTM)—switch (TTM media size) removal” on page 4-249.
4	Check the switch (TTM media size) for proper connection. Check tray 3 and tray 4. Are the above sensors connected properly?	Replace the appropriate switch (TTM media size). Go to “2000-sheet dual input (TTM)—switch (TTM media size) removal” on page 4-249.	Replace the connection.
5	Check the 2TM/TTM controller card assembly and the printer engine card assembly for proper connection. Are connectors P541 and P413 on the above cards connected properly?	Go to step 6.	Replace the connection.

Step	Check	Yes	No
6	Perform a print test. Does the error still occur?	Replace the 2TM/ TTM controller card assembly. Go to “2000-sheet dual input (TTM)— 2TM/TTM controller card assembly removal” on page 4-281. Go to step 7.	Problem solved.
7	Perform a print test. Does the error still occur?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

Previous



Next



Go Back

No media in the select media tray

Step	Check	Yes	No
1	Check the media. Is the media loaded in the selected tray?	Go to step 2.	Load media properly.
2	Check the sensor (media out) for operation. 1. Enter the Diagnostics Menu. 2. Touch INPUT TRAY TESTS. 3. Touch Sensor test. 4. Touch Tray 1. 5. Touch Media out. 1. Enter the Diagnostics Menu. 2. Touch INPUT TRAY TESTS. 3. Touch Sensor test. 4. Touch Tray 2. 5. Touch Media out. Remove the media tray assembly. Does the display on the operator panel change every time the sensing area is blocked by the media out actuator?	Go to step 4.	Go to step 3.
3	Check the sensor (media out) connection for tray 1 or tray 2. Is the sensor (media out) properly connected for tray 1 or tray 2?	Replace the sensor (media out). Go to “Sensor (media out) removal” on page 4-40.	Replace the connection.

Step	Check	Yes	No
4	Perform a print test. Does the error continue?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

Previous



Next



Go Back

No media in the select media tray

Step	Check	Yes	No
1	Check the media. Is the media loaded in the selected tray?	Go to step 2.	Load media properly.
2	Check the sensor (media out) for proper operation. 1. Enter the Diagnostics Menu. 2. Touch INPUT TRAY TESTS. 3. Touch Sensor test. 4. Touch Tray 3. 5. Touch Media out. 1. Enter the Diagnostics Menu. 2. Touch INPUT TRAY TESTS. 3. Touch Sensor test. 4. Touch Tray 4. 5. Touch Media out. Remove the appropriate media tray assembly. Does the display on the operator panel change every time the sensing area on the above sensor is blocked by the media out actuator.	Go to step 4.	Go to step 3.
3	Check the sensor (media out) for proper connection. Check tray 3 and tray 4. Is the above sensor connected properly?	Replace the appropriate sensor (media out). Go to “2000-sheet dual input (TTM)—sensor (media out) removal” on page 4-262.	Replace the connection.
4	Check the 2TM/TTM controller card assembly and the printer engine card assembly for proper connection. Are connectors P541 and P413 on the above cards connected properly?	Go to step 5.	Replace the connection.
5	Perform a print test. Does the error still occur?	Replace the 2TM/TTM controller card assembly. Go to “2000-sheet dual input (TTM)—2TM/TTM controller card assembly removal” on page 4-281. Go to step 6.	Problem solved.

Step	Check	Yes	No
6	Perform a print test. Does the error still occur?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

Previous



Next



Go Back

Paper is installed (short edge) in the media paper tray

Step	Check	Yes	No
1	Is the media installed (short edge) orientation in the media tray assembly as opposed to long edge?	Turn media 90 degrees or enable short edge feeding which is found in the config menu (press select and right arrow at power on) and then find the menu item short edge printing.	Go to step 2.
2	Perform a print test. Does the error still occur?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

PC cartridge end of life

Step	Check	Yes	No
1	Check the PC cartridge for proper installation. Is the PC cartridge installed properly?	Go to step 2.	Install the PC cartridge properly.
2	Is the sensor (RFID PC cartridge) installed properly?	Go to step 4.	Go to step 3.
3	Check the sensor (RFID PC cartridge) connection. Is the sensor (RFID PC cartridge) connected properly?	Replace the sensor (RFID PC cartridge) Go to “Sensor (RFID PC cartridge) and sensor (RFID toner cartridge) removal” on page 4-94.	Connect P/J126 and P/J419 properly.

Step	Check	Yes	No
4	Perform a print test. Does the error continue?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

Previous



Next



Go Back

PC cartridge RFID failure

Step	Check	Yes	No
1	Check the PC cartridge installation. Is the PC cartridge properly installed?	Go to step 2.	Install the PC cartridge properly.
2	Check the sensor (RFID PC cartridge) installation. Is the sensor (RFID PC cartridge) properly installed?	Go to step 3.	Install the sensor (RFID PC cartridge).
3	Check the sensor (RFID PC cartridge) connection. Is the sensor (RFID PC cartridge) properly connected.	Replace the sensor (RFID PC cartridge).	Replace the connection.
4	Perform a print test. Does the error continue?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

PC cartridge set failure

Step	Check	Yes	No
1	Check the PC cartridge installation. Is the PC cartridge properly installed?	Go to step 2.	Install the PC cartridge properly.
2	Perform a POR. Does the error continue?	Go to step 3.	Problem solved.
3	Remove the PC cartridge from the machine. Remove the two screws securing the plastic to the front of the PC cartridge. Remove the plastic cover. Is the connector on the front of the PC cartridge connected properly?	Replace the PC cartridge.	Replace the connection.
4	Perform a POR. Does the error continue?	Go to step 5.	Problem solved.

Step	Check	Yes	No
5	Check the PC cartridge sensor connection. Is the PC cartridge sensor connector installed and functioning properly?	Replace the PC cartridge sensor connector.	Reinstall the PC cartridge sensor connector and ensure it connects to the PC cartridge properly.
6	Check the switch (PC cartridge interlock) for proper operation. 1. Enter the Diagnostics Menu. 2. Touch BASE SENSOR TEST . 3. Touch Devices . 4. Touch PC unit present . Open printer left door assembly and the front door assembly and check it. Does the display on the operator panel change every time the PC cartridge is removed and replaced?	Go to step 8.	Go to step 7.
7	Check the switch (PC cartridge interlock) connection. Is the connection P404 on the printer engine card connected properly?	Replace the switch (PC cartridge interlock). Go to “Switch (PC cartridge interlock) removal” on page 4-84.	Replace the connection.
8	Perform a POR. Does the error continue?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

Previous



Next



Go Back

Printer front door open

Step	Check	Yes	No
1	Check the opening and closing of the printer front door assembly. Is the printer front door assembly opening and closing normally?	Go to step 2.	Check the printer front door assembly for rotation and reinstall it.
2	Check the switch (printer front door interlock) for operation. 1. Enter the Diagnostics Menu. 2. Touch BASE SENSOR TEST . 3. Touch Cover and Door . 4. Touch Door J printer front . Open the printer front door assembly and check it. Does the display on the operator panel change every time the switch actuator is operated?	Go to step 4.	Go to step 3.

Step	Check	Yes	No
3	Check the switch (printer front door interlock) connection. Is the switch (printer front door interlock) properly connected?	Replace the switch (printer front door interlock). Go to “Switch (printer front door interlock) removal” on page 4-4.	Replace the connection.
4	Perform a print test. Does the error continue?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

Previous



Next



Go Back

Printer left door open

Step	Check	Yes	No
1	Is the printer left door assembly opening and closing properly?	Go to step 2.	Check the printer left door assembly for deformation and reinstall it.
2	Check the switch (printer left door interlock) for operation. 1. Enter the Diagnostics Menu. 2. Touch BASE SENSOR TEST. 3. Touch Cover and Door. 4. Touch Door A left side. Open the printer left door assembly, and check it. Does the display on the operator panel change every time the switch actuator is operated?	Go to step 4.	Go to step 3.
3	Check the switch (printer left door interlock) connection. Is the switch (printer left door interlock) connected properly?	Replace the switch (printer left door interlock). Go to “Switch (printer left door interlock) removal” on page 4-76.	Replace the connection.
4	Perform a print test. Does the error continue?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

Printer left lower door open

Previous



Next



Go Back

Step	Check	Yes	No
1	Is the printer left lower door assembly opening and closing properly?	Go to step 2.	Check the printer front door assembly for deformation and reinstall it.
2	<p>Check the switch (printer front door interlock) for operation.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch BASE SENSOR TEST. 3. Touch Cover and Door. 4. Touch Door B left/lower. <p>Open the printer front door assembly and check it.</p> <p>Does the display on the operator panel change every time the switch actuator is operated?</p>	Go to step 4.	Go to step 3.
3	<p>Check the switch (printer left lower door interlock) connection.</p> <p>Is the switch (printer left lower door interlock) properly connected?</p>	<p>Replace the switch (printer front door interlock).</p> <p>Go to “Switch (printer front door interlock) removal” on page 4-4.</p>	Replace the connection.
4	<p>Perform a print test.</p> <p>Does the error continue?</p>	<p>Replace the printer engine card assembly.</p> <p>Go to “Printer engine card assembly removal” on page 4-119.</p>	Problem solved.

Scheduled maintenance required

Step	Check	Yes	No
1	<p>Install the proper maintenance kit.</p> <p>Does the message still occur?</p>	<p>Reset the maintenance counter.</p> <p>Go to “Scheduled maintenance” on page 6-2.</p>	Problem solved.

Standard bin 1 full

Step	Check	Yes	No
1	<p>Check the actuator for movement.</p> <p>Does the standard bin 1 full actuator move up and down normally?</p>	Go to step 2.	Reinstall the standard bin 1 full actuator.

Step	Check	Yes	No
2	<p>Check the sensor (standard bin full exit 1) for operation.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch BASE SENSOR TEST. 3. Touch Exit level. 4. Touch Standard bin full 1. <p>Does the display on the operator panel change every time the sensing area is blocked?</p>	Go to step 5.	Go to step 3.
3	<p>Check the sensor (standard bin full 1) connection.</p> <p>Is the sensor (standard bin full 1) properly connected?</p>	<p>Replace the sensor (standard bin full exit 1).</p> <p>Go to “Sensor (exit 1 bin full) removal” on page 4-110.</p>	<p>Replace the connection.</p> <p>Go to step 4.</p>
4	<p>Check the exit interface card assembly connection P432, P433, and P434.</p> <p>Is the exit interface card assembly properly connected P432, P433, and P434?</p>	<p>Replace the exit interface card assembly.</p> <p>Go to “Exit interface card assembly removal” on page 4-117.</p>	Replace the connection.
5	<p>Perform a print test.</p> <p>Does the error continue?</p>	<p>Replace the printer engine card assembly.</p> <p>Go to “Printer engine card assembly removal” on page 4-119.</p>	Problem solved.

Previous



Next



Go Back

Standard bin 2 full

Step	Check	Yes	No
1	<p>Check the actuator for movement.</p> <p>Does the media weight assembly move up and down normally?</p>	Go to step 2.	Reinstall the media weight assembly.
2	<p>Check the sensor (standard bin full exit 2) for operation.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch BASE SENSOR TEST. 3. Touch Exit level. 4. Touch Standard bin full 2 <p>Does the display on the operator panel change every time the sensing area is blocked?</p>	Go to step 5.	Go to step 3.

Step	Check	Yes	No
3	Check the sensor (standard bin full exit 2) connection. Is the sensor (standard bin full exit 2) properly connected?	Replace the sensor (standard bin full exit 2). Go to “Exit 2 sensor (standard bin full exit 2) removal” on page 4-337.	Replace the connection. Go to step 4.
4	Check the exit interface card assembly connection P432, P433, and P434. Is the exit interface card assembly properly connected P432, P433, and P434?	Replace the exit interface card assembly. Go to “Exit interface card assembly removal” on page 4-117.	Replace the connection.
5	Perform a print test. Does the error continue?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

Previous



Next



Go Back

Scanner missing failure

Step	Check	Yes	No
1	Check the scanner interface cable assembly connection between the RIP card assembly and the scanner unit assembly. Is the scanner interface cable assembly connected properly?	Go to step 2.	Replace the connection.
2	Check all connections of the scanner controller card assembly. Are the connections of the scanner controller card assembly connected properly?	Go to step 3.	Connect each connector of the scanner controller card assembly properly.
3	Perform a POR. Does the error remain when the power is turned off/on?	Replace the scanner controller card assembly. Go to “Scanner controller card assembly removal” on page 4-151. Go to step 4.	Problem solved.
4	Perform a POR. Does the error remain when the power is turned off/on again?	Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.	Problem solved.

Switch (ADF left cover interlock) open

Step	Check	Yes	No
1	Check the actuator of the ADF left cover assembly. Is the above actuator present and attached properly?	Go to step 2.	Replace the ADF left cover assembly. Go to “ADF left cover assembly removal” on page 4-176.
2	Check the actuating lever of the switch (ADF left cover interlock). Is the above actuating lever attached and aligned properly?	Go to step 3.	Adjust the actuating lever for proper alignment.
3	Check the switch (ADF left cover interlock) for proper operation. Perform the switch (ADF left cover interlock) test. 1. Enter the Diagnostics Menu. 2. Touch SCANNER TESTS. 3. Touch Sensor Tests. 4. Touch ADF left cover interlock. Open and close the ADF left cover assembly. Does the display on the operator panel change every time the above switch is activated?	Go to step 5.	Go to step 4.
4	Check the switch (ADF left cover interlock) for connection. Is the above switch connected properly?	Replace the switch (ADF left cover interlock). Go to “Switch (ADF left cover interlock) removal” on page 4-191.	Replace the connections.
5	Perform a POR. Does the error remain?	Replace the scanner controller card assembly. Go to “Scanner controller card assembly removal” on page 4-151.	Problem solved.

Previous



Next



Go Back

Toner cartridge empty

Step	Check	Yes	No
1	Check remaining toner. Does the toner cartridge contain toner?	Go to step 2.	Replace the toner cartridge.
2	Check the toner cartridge for proper installation. Remove the toner cartridge and reinstall it. Does it operate properly?	Problem solved.	Go to step 3.

Step	Check	Yes	No
3	Check the toner cartridge guide assembly. Remove the toner cartridge guide assembly. Does the gear, located on the lower part of the toner cartridge guide assembly, rotate smoothly?	Go to step 4.	Replace toner cartridge guide assembly.
4	Check the pipe, located on the lower part of the toner cartridge for debris. Is the pipe, located on the lower part of the toner cartridge guide assembly, clogged?	Go to step 5.	Clean the pipe.
5	Check the sensor (RFID toner cartridge) for proper installation.	Go to step 6.	Install the sensor (RFID toner cartridge) correctly.
6	Check the sensor (RFID toner cartridge) for proper connection.	Replace the sensor (RFID toner cartridge). Go to “Toner cartridge guide assembly removal” on page 4-95	Replace the connection.
7	Check the toner add motor assembly for operation. Warning: Only perform this test in segments of three seconds or less, or toner spill will occur. Remove the top cover assembly. Go to “Top cover assembly removal” on page 4-5. Override the switch (printer front door interlock) 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Printer Motor Test. 4. Touch Toner add motor. Observe the toner add motor for rotation. Note: When performing this test, the drum unit motor will also operate. Does the motor rotate normally?	Go to step 9.	Go to step 8.
8	Check the toner add motor assembly connection. Is the toner add motor assembly properly connected?	Replace the toner add motor. “Toner cartridge guide assembly removal” on page 4-95.	Replace the connection.
9	Perform a print test. Does the error continue?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

Previous



Next



Go Back

Toner cartridge near empty

Previous



Next



Go Back

Step	Check	Yes	No
1	Does the toner cartridge contain toner?	Go to step 2.	Replace the toner cartridge.
2	Check the toner cartridge for proper installation. Remove the toner cartridge and reinstall it. Does it install properly?	Problem solved	Go to step 3.
3	Check the gear rotation in the toner cartridge guide assembly. Remove the toner cartridge guide assembly. Does the gear, located at the lower part of the toner cartridge guide assembly, rotate smoothly?	Go to step 4.	Replace the toner guide assembly.
4	Check the toner cartridge guide assembly for pipe clogging. Is the pipe, located at the lower part of the toner cartridge guide assembly, clogged?	Go to step 5.	Clean the pipe.
5	Check the toner add motor assembly for operation. Warning: Only perform this test in segments of three seconds or less or toner spill will occur. 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS . 3. Touch Printer Motor Test . 4. Touch Toner add motor . Does the motor rotate normally?	Go to step 7.	Go to step 6.
6	Check the toner add motor assembly connection. Is the toner add motor assembly properly connected?	Replace the toner add motor assembly. Go to “Toner add motor assembly removal” on page 4-97.	Replace the connection.
7	Perform a print test. Does the error continue?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

Toner cartridge failure

Step	Check	Yes	No
1	Check the toner cartridge installation. Is the correct toner cartridge properly installed?	Go to step 2.	Install the correct toner cartridge properly.
2	Check the sensor (RFID toner cartridge) for proper installation. Is the sensor (RFID toner cartridge) installed correctly?	Go to step 3.	Install the sensor (RFID toner cartridge) correctly.

Step	Check	Yes	No
3	Check the sensor (RFID toner cartridge) connection. Is the sensor (RFID toner cartridge) properly connected?	Replace the sensor (RFID toner cartridge).	Replace the connection.
4	Perform a print test. Does the error continue?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

Previous



Next



Go Back

Toner cartridge RFID failure

Step	Check	Yes	No
1	Check the toner cartridge installation. Is the toner cartridge properly installed?	Go to step 2.	Install the toner cartridge properly.
2	Check the sensor (RFID toner cartridge) installation. Is the sensor (RFID toner cartridge) properly installed?	Go to step 3.	Install the sensor (RFID toner cartridge) correctly.
3	Check the sensor (RFID toner cartridge) connection. Is the sensor (RFID toner cartridge) properly connected?	Replace the sensor (RFID toner cartridge).	Replace the connection.
4	Perform a print test. Does the error continue?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

Toner cartridge set failure

Step	Check	Yes	No
1	Check the toner cartridge for correct installation. Open the printer front door assembly. Is the toner cartridge installed properly?	Go to step 2.	Reinstall the toner cartridge properly. Go to “Toner cartridge guide assembly removal” on page 4-95.
2	Check the toner cartridge. Is the toner cartridge damaged?	Replace the toner cartridge. Go to “Toner cartridge guide assembly removal” on page 4-95.	Go to step 3.

Step	Check	Yes	No
3	Check the toner cartridge guide assembly. Remove the top cover assembly. Is the toner cartridge guide assembly damaged?	Replace the toner cartridge. Go to “Toner cartridge guide assembly removal” on page 4-95.	Go to step 4.
4	Check the sensor (RFID toner cartridge). Is the above sensor attached and connected properly?	Replace the sensor (RFID toner cartridge).	Go to step 5.
5	Perform a print test. Does the error still occur?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

Previous



Next



Go Back

Tray 1 media size failure

Step	Check	Yes	No
1	Check the media. Pull out the media tray 1, and visually check it. Is the media loaded in media tray 1 properly?	Go to step 2.	Load media properly.
2	Check the media. Pull out the media tray 1, and visually check it. Are the front media tray guide assembly, rear media tray guide and media tray end guide of media tray 1 set correctly?	Go to step 3.	Set the guides properly.
3	Check the tray 1 switch (media size) for proper installation. Pull out the media tray 1, and visually check it. Is the above switch installed properly?	Go to step 4.	Install switch (media size) for media tray 1 correctly.
4	Check the tray 1 switch (media size) connection. Is the tray 1 switch (media size) properly connected.	Replace the switch (media size). Go to “Switch (media size) removal” on page 4-19.	Replace the connection.
5	Perform a print test. Does the error continue?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

Tray 2 media size failure

Step	Check	Yes	No
1	Check the media. Is the media loaded, in media tray 2, properly? Pull out the media tray 2, and visually check it.	Go to step 2.	Load media properly.
2	Check the media. Are the front media tray guide assembly, rear media tray guide, and media tray end guide of media tray 2 set correctly? Pull out the media tray 2, and visually check it.	Go to step 3.	Set the guides properly.
3	Check the tray 2 switch (media size) 2 for proper installation. Pull out the media tray 2, and visually check it. Is the above switch installed properly?	Go to step 4.	Install the tray 2 switch (media size) correctly.
4	Check the tray 2 switch (media size) connection. Is the tray 2 switch (media size) properly connected?	Replace the switch (media size). Go to “Switch (media size) removal” on page 4-19.	Replace the connection.
5	Perform a print test. Does the error continue?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

Previous



Next



Go Back

Tray 1 media size mismatch in length

Step	Check	Yes	No
1	Check the media. Pull out the media tray 1, and visually check it. Is the media properly loaded in media tray 1?	Go to step 2.	Load media properly.
2	Check the media. Pull out the media tray 1, and visually check it. Are the front media tray guide assembly, rear media tray guide, and media tray end guide of media tray 1 set correctly?	Go to step 3.	Set the guides properly.
3	Check the switch (media size) in media tray 1 for proper installation. Pull out the media tray 1, and visually check it Is the switch (media size) in media tray 1 installed correctly?	Go to step 4.	Install the switch (media size) for media tray 1 correctly.
4	Check the switch (media size) in tray 1 connection. Is the switch (media size) in tray 1 properly connected?	Replace the switch (media size).	Replace the connection.

Step	Check	Yes	No
5	Check the roll for tray 1. Pull out the tray 1, and check it. Is the feed roll, separation roll, and pick roll free of excess wear and contamination?	Go to step 6.	Clean or replace the feed roll, separation roll, and pick roll.
6	Check the media position. Open the printer left door assembly, and visually check it. Does the media touch the sensor (registration)?	Remove the media.	Go to step 7.
7	Check the roll. Open the printer left door assembly, and check it. Is the transport roll assembly free of excess wear and contamination?	Go to step 8.	Clean or replace the transport roll assembly. Go to “Transfer roll guide assembly removal” on page 4-77.
8	Check the roll. Open the printer left door assembly, and check it. Is the registration roll assembly free of excess wear and contamination?	Go to step 9.	Clean or replace the registration roll assembly. Go to “Registration roll assembly removal” on page 4-79.
9	Check the sensor (registration) for operation. 1. Enter the Diagnostics Menu. 2. Touch BASE SENSOR TEST. 3. Touch Media Path. 4. Touch Registration. Open the printer left door assembly, and check it. Does the display on the operator panel change every time the sensor (registration) actuator is operated?	Go to step 11.	Go to step 9.
10	Check the sensor (registration) connection. Is the sensor (registration) properly connected?	Replace the sensor (registration). Go to “Sensor (registration) removal” on page 4-81.	Replace the connection.
11	Check the registration clutch for proper operation. 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Printer Motor Test. 4. Touch Registrat clutch. Does the above component operate normally?	Go to step 13.	Go to step 12.
12	Check the registration clutch connection. Is the registration clutch properly connected?	Replace the registration clutch. Go to “Registration clutch assembly removal” on page 4-80.	Replace the connection.

Previous



Next



Go Back

Step	Check	Yes	No
13	Perform a print test. Does the error continue?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

Previous



Next



Go Back

Tray 2 media size mismatch in length

Step	Check	Yes	No
1	Check the media. Pull out the tray 2, and visually check it. Is the media loaded in tray 2 properly?	Go to step 2.	Load media properly.
2	Check the media. Pull out the tray 2, and visually check it. Are the front media tray guide assembly, rear media tray guide, and media tray end guide of tray 2 set correctly?	Go to step 3.	Set the guides properly.
3	Check the switch (media size) for tray 2 installation. Is the switch (media size) for tray 2 installed correctly? Pull out the tray 2, and visually check it.	Go to step 4.	Install the switch (media size) for tray 2 correctly. Go to “Switch (media size) removal” on page 4-19.
4	Check the switch (media size) for tray 2 connection. Is the switch (media size) for tray 2 properly connected?	Replace the switch (media size). Go to “Switch (media size) removal” on page 4-19.	Replace the connection.
5	Check the roll for tray 2. Pull out the tray 2, and check it. Is the feed roll, separation roll, and pick roll free of excess wear and contamination?	Go to step 6.	Clean or replace the feed roll, separation roll, and pick roll. Go to “Feed roll removal” on page 4-45, “Separation roll removal” on page 4-49, and “Pick roll removal” on page 4-51.
6	Open the printer left door assembly, and visually check it. Check the media position. Does the media touch the sensor (registration)?	Remove the media.	Go to step 7.

Step	Check	Yes	No
7	<p>Check the roll.</p> <p>Open the printer left door assembly, and check it.</p> <p>Is the transport roll assembly free of excess wear and contamination?</p>	Go to step 8.	<p>Clean or replace the transport roll assembly.</p> <p>Go to “Transfer roll assembly removal” on page 4-73.</p>
8	<p>Check the roll.</p> <p>Open the printer left door assembly, and check it.</p> <p>Is the roll, in the registration roll assembly, free of excess wear and contamination?</p>	Go to step 9.	<p>Clean or replace the registration roll assembly.</p> <p>Go to “Registration roll assembly removal” on page 4-79.</p>
9	<p>Check the sensor (registration) for operation.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch BASE SENSOR TEST. 3. Touch Media Path. 4. Touch Registration. <p>Open the printer left door assembly, and check it.</p> <p>Does the display on the operator panel change every time the sensor actuator is operated?</p>	Go to step 11.	Go to step 10.
10	<p>Check the sensor (registration) connection.</p> <p>Is the sensor (registration) properly connected?</p>	<p>Replace the sensor (registration).</p> <p>Go to “Sensor (registration) removal” on page 4-81.</p>	Replace the connection.
11	<p>Check the registration clutch for proper operation.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Printer Motor Test. 4. Touch Registrat clutch. <p>Does the component make an audible clicking sound when it is operated?</p>	Go to step 13.	Go to step 12.
12	<p>Check the registration clutch connection.</p> <p>Is the registration clutch properly connected?</p>	<p>Replace the registration clutch.</p> <p>Go to “Registration clutch assembly removal” on page 4-80.</p>	Replace the connection.
13	<p>Perform a print test.</p> <p>Does the error continue?</p>	<p>Replace the printer engine card assembly.</p> <p>Go to “Printer engine card assembly removal” on page 4-119.</p>	Problem solved.

Previous



Next



Go Back

Tray 3 media size failure

Step	Check	Yes	No
1	Check the media. Pull out the tray 3, and visually check it. Is the media loaded in tray 3 properly?	Go to step 2.	Load media properly.
2	Check the media. Pull out the tray 3, and visually check it. Are the front media guide and rear media guide on tray 3 set correctly?	Go to step 3.	Set the parts properly.
3	Check the switch (TTM media size) for proper installation. Pull out the tray 3, and visually check it. Is the switch (TTM media size) installed properly?	Go to step 4.	Install the switch (TTM media size) correctly. Go to “2000-sheet dual input (TTM)—switch (TTM media size) removal” on page 4-249.
4	Check the switch (TTM media size) for proper connection. Is the above switch installed correctly?	Replace the switch (TTM media size). Go to “2000-sheet dual input (TTM)—switch (TTM media size) removal” on page 4-249.	Replace the connection.
5	Check the 2TM/TTM controller card assembly and the printer engine card assembly for proper connection. Are connectors P541 and P413 on the above cards connected properly?	Go to step 6.	Replace the connection.
6	Perform a print test. Does the error still occur?	Replace the 2TM/TTM controller card assembly. Go to “2000-sheet dual input (TTM)—2TM/TTM controller card assembly removal” on page 4-281. Go to step 7.	Problem solved.
7	Perform a print test. Does the error still occur?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

Previous



Next



Go Back

Tray 4 media size failure

Step	Check	Yes	No
1	Check the media. Pull out the tray 4, and visually check it. Is the media loaded in tray 4 properly?	Go to step 2.	Load media properly.
2	Check the media. Pull out the tray 4, and visually check it. Are the front media guide and rear media guide on tray 4 set correctly?	Go to step 3.	Set the parts properly.
3	Check the switch (TTM media size) for proper installation. Pull out the tray 4, and visually check it. Is the switch (TTM media size) for tray 4 installed properly?	Go to step 4.	Install the switch (TTM media size) correctly. Go to “2000-sheet dual input (TTM)—switch (TTM media size) removal” on page 4-249.
4	Check the switch (TTM media size) for proper connection. Is the above switch connected correctly?	Replace the switch (TTM media size). Go to “2000-sheet dual input (TTM)—switch (TTM media size) removal” on page 4-249.	Replace the connection.
5	Check the 2TM/TTM controller card assembly and the printer engine card assembly for proper connection. Are connectors P541 and P413 on the above cards connected properly?	Go to step 6.	Replace the connection.
6	Perform a print test. Does the error still occur?	Replace the 2TM/TTM controller card assembly. Go to “2000-sheet dual input (TTM)—2TM/TTM controller card assembly removal” on page 4-281. Go to step 7.	Problem solved.
7	Perform a print test. Does the error still occur?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

Previous



Next



Go Back

Tray 3 media size mismatch in length

Step	Check	Yes	No
1	Check the media. Pull out the tray 3, and visually check it. Is the media loaded in tray 3 properly?	Go to step 2.	Load media properly.
2	Check the media. Pull out the tray 3, and visually check it. Are the front media guide and rear media guide on tray 3 set correctly?	Go to step 3.	Set the parts properly.
3	Check the switch (TTM media size) for proper operation. Pull out the tray 3, and visually check it. Is the switch (TTM media size) for tray 3 installed properly?	Go to step 4.	Install the switch (TTM media size) correctly. Go to “2000-sheet dual input (TTM)—switch (TTM media size) removal” on page 4-249.
4	Check the switch (TTM media size) for proper connection. Is the above switch connected properly?	Replace the switch (TTM media size). Go to “2000-sheet dual input (TTM)—switch (TTM media size) removal” on page 4-249.	Replace the connection.
5	Check the 2TM/TTM controller card assembly and the printer engine card assembly for proper connection. Are connectors P541 and P413 on the above cards connected properly?	Go to step 6.	Replace the connection.
6	Check the tray 3 rolls. Pull out the tray 3, and check it. Are the feed roll, separation roll, and pick roll for transport free of excess wear and contamination?	Go to step 7.	Clean or replace the feed roll, separation roll, and pick roll. Go to “2000-sheet dual input (TTM)—feed roll removal” on page 4-266, “2000-sheet dual input (TTM)—separation roll removal” on page 4-270, and “2000-sheet dual input (TTM)—pick roll removal” on page 4-273.
7	Check the media position. Open the printer left door assembly, and visually check it. Does the media touch the sensor (registration)?	Remove the media.	Go to step 8.
8	Check the roll. Open the printer left door assembly, and visually check it. Is the transport roll assembly for transport free of excess wear and contamination?	Go to step 9.	Clean or replace the transport roll assembly.

Previous



Next



Go Back

Step	Check	Yes	No
9	<p>Check the roll.</p> <p>Open the printer left door assembly, and visually check it.</p> <p>Is the registration roll assembly for transport free of excess wear and contamination?</p>	Go to step 10.	<p>Clean or replace the registration roll assembly.</p> <p>Go to “Registration roll assembly removal” on page 4-79.</p>
10	<p>Check the sensor (registration) for proper operation.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch BASE SENSOR TEST. 3. Touch Media Path. 4. Touch Registration. <p>Open the printer left door assembly, and visually check it.</p> <p>Does the display on the operator panel change every time the actuator on the above sensor operates?</p>	Go to step 12.	Go to step 11.
11	<p>Check the sensor (registration) for proper connection.</p> <p>Is the above sensor connected properly?</p>	<p>Replace the sensor (registration).</p> <p>Go to “Sensor (registration) removal” on page 4-81.</p>	Replace the connection.
12	<p>Check the registration clutch for proper operation.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Printer Motor Test. 4. Touch Registrat clutch. <p>Does the above component make an audible clicking sound every time it operates?</p>	Go to step 14.	Go to step 13.
13	<p>Check the registration clutch for proper connection.</p> <p>Is the above component connected properly?</p>	<p>Replace the registration clutch.</p> <p>Go to “Registration clutch assembly removal” on page 4-80.</p>	Replace the connection.
14	<p>Perform a print test.</p> <p>Does the error still occur?</p>	<p>Replace the 2TM/TTM controller card assembly.</p> <p>Go to “2000-sheet dual input (TTM)—2TM/TTM controller card assembly removal” on page 4-281.</p> <p>Go to step 15.</p>	Problem solved.
15	<p>Perform a print test.</p> <p>Does the error still occur?</p>	<p>Replace the printer engine card assembly.</p> <p>Go to “Printer engine card assembly removal” on page 4-119.</p>	Problem solved.

Previous



Next



Go Back

Tray 4 media size mismatch in length

Step	Check	Yes	No
1	Check the media. Pull out the tray 4, and visually check it. Is the media loaded in tray 4 properly?	Go to step 2.	Load media properly.
2	Check the media. Pull out the tray 4, and visually check it. Are the front media guide and rear media guide on tray 4 set correctly?	Go to step 3.	Set the parts properly.
3	Check the switch (TTM media size) for proper installation. Pull out the tray 4, and visually check it. Is the switch (TTM media size) for tray 4 installed properly?	Go to step 4.	Install the switch (TTM media size) correctly. Go to “2000-sheet dual input (TTM)—switch (TTM media size) removal” on page 4-249.
4	Check the switch (TTM media size) for proper connection. Is the above switch connected properly?	Replace the switch (TTM media size). Go to “2000-sheet dual input (TTM)—switch (TTM media size) removal” on page 4-249.	Replace the connection.
5	Check the 2TM/TTM controller card assembly and the printer engine card assembly for proper connection. Are connectors P541 and P413 on the above cards connected properly?	Go to step 9.	Replace the connection.
6	Check the tray 4 rolls. Pull out the tray 4, and check it. Are the feed roll, separation roll, and pick roll for transport free of excess wear and contamination?	Go to step 7.	Clean or replace the feed roll, separation roll, and pick roll. Go to “2000-sheet dual input (TTM)—feed roll removal” on page 4-266, “2000-sheet dual input (TTM)—separation roll removal” on page 4-270, and “2000-sheet dual input (TTM)—pick roll removal” on page 4-273.
7	Check the media position. Open the printer left door assembly, and visually check it. Does the media touch the sensor (registration)?	Remove the media.	Go to step 8.

Previous



Next



Go Back

Step	Check	Yes	No
8	<p>Check the roll.</p> <p>Open the printer left door assembly, and visually check it.</p> <p>Is the media transport roll assembly for transport free of excess wear and contamination?</p>	Go to step 9.	<p>Clean or replace the media transport roll assembly.</p> <p>Go to “2000-sheet dual input (TTM)—2TM/TTM media transport roll assembly removal” on page 4-253.</p>
9	<p>Check the roll.</p> <p>Open the printer left door assembly, and visually check it.</p> <p>Is the registration roll assembly for transport free of excess wear and contamination?</p>	Go to step 10.	<p>Clean or replace the registration roll assembly.</p> <p>Go to “Registration roll assembly removal” on page 4-79.</p>
10	<p>Check the sensor (registration) for proper operation.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch BASE SENSOR TEST. 3. Touch Media Path. 4. Touch Registration. <p>Open the printer left door assembly, and visually check it.</p> <p>Does the display on the operator panel change every time the actuator on the above sensor operates?</p>	Go to step 12.	Go to step 11.
11	<p>Check the sensor (registration) for proper connection.</p> <p>Is the above sensor connected properly?</p>	<p>Replace the sensor (registration).</p> <p>Go to “Sensor (registration) removal” on page 4-81.</p>	Replace the connection.
12	<p>Check the registration clutch for proper operation.</p> <ol style="list-style-type: none"> 1. Enter the Diagnostics Menu. 2. Touch MOTOR TESTS. 3. Touch Printer Motor Test. 4. Touch Registrat clutch. <p>Does the above component make an audible clicking sound every time it operates?</p>	Go to step 14.	Go to step 13.
13	<p>Check the registration clutch for proper connection.</p> <p>Is the above component connected properly?</p>	<p>Replace the registration clutch.</p> <p>Go to “Registration clutch assembly removal” on page 4-80.</p>	Replace the connection.
14	<p>Perform a print test.</p> <p>Does the error still occur?</p>	<p>Replace the 2TM/TTM controller card assembly.</p> <p>Go to “2000-sheet dual input (TTM)—2TM/TTM controller card assembly removal” on page 4-281.</p> <p>Go to step 15.</p>	Problem solved.

Previous



Next



Go Back

Step	Check	Yes	No
15	Perform a print test. Does the error still occur?	Replace the printer engine card assembly. Go to “Printer engine card assembly removal” on page 4-119.	Problem solved.

Previous



Next



Go Back

Image quality trouble

Troubleshooting

Note: First, get a printout as a base, and follow the symptom table to identify the possible failing FRU's.

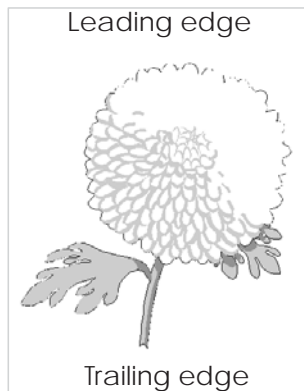
Image quality symptoms:

- Faint print (low contrast)—**“Faint print (Low contrast)” on page 2-204.**
- Blank print (no print)—**“Blank print (no print)” on page 2-206.**
- Solid black—**“Solid black” on page 2-208.**
- Vertical blank lines (White stripes in media transport direction)—**“Vertical blank lines (white stripes in media transport direction)” on page 2-209.**
- Horizontal band—**“Horizontal bands” on page 2-211.**
- Printhead out—**“913.00 Printhead assembly failure” on page 2-153.**
- Vertical stripes—**“Vertical stripes” on page 2-213.**
- Horizontal stripes—**“Horizontal stripes” on page 2-215.**
- Partial lack—**“Partial lack” on page 2-217.**
- Spots—**“Spots” on page 2-218.**
- Afterimage—**“After image” on page 2-219.**
- Background (fog)—**“Background (fog)” on page 2-220.**
- Skew—**“Skew” on page 2-221.**
- Media damage—**“Media damage” on page 2-223.**
- No fix—**“No fuse” on page 2-224.**

Note: When horizontal lines and/or spots occur periodically, it is possibly caused by a particular roll. In this case, measure the interval on the print test, and check the relation to the roll in the printer. The interval does not necessarily match circumference of the roll.

Image Quality

Faint print (Low contrast)



Previous



Next



Go Back

Before starting, check the media route for foreign objects, such as staples, clips, and scraps, in the media path.

Step	Check	Yes	No
1	Check the media condition. Load new, dry, recommended media, and perform a print test. Is the image density normal?	Problem solved.	Go to step 2.
2	Check the toner cartridge. Install a new toner cartridge. Re-print the defective image. Is the image density normal?	Problem solved.	Go to step 3.
3	Check the transfer roll assembly. Remove the transfer roll assembly. Check the transfer roll assembly for contamination and wear. Is the transfer roll assembly free of excess wear and contamination?	Go to step 4.	Replace the transfer roll assembly.
4	Check the PC cartridge installation. Remove the PC cartridge. Check the PC cartridge connections. Are the PC cartridge connections free of excess wear and contamination?	Go to step 5.	Correct and clean contaminated pins, or replace the PC cartridge or connector.
5	Check the drum grounding plate. Remove the PC cartridge. Check the drum grounding plate, located behind the rear motor cover. This plate can be found behind the flywheel. Is the drum grounding plate free of excess wear and contamination?	Go to step 6.	Correct and clean the drum grounding plate, or replace the PC cartridge.

Step	Check	Yes	No
6	<p>Check the image development process.</p> <p>Perform a print test. Turn off the printer power while printing.</p> <p>Carefully remove the PC cartridge, and check the developed image formed on the drum right before the transfer roll assembly.</p> <p>Is the image completely formed on the drum, and the area clear, black, and easy to read?</p>	Go to step 7.	Go to step 9.
7	<p>Check the image transfer process.</p> <p>Check the toner image formed on the drum after the transfer roll assembly.</p> <p>Is the toner image completely transferred on the media?</p>	Go to step 9.	Go to step 8.
8	<p>Check the HVPS card assembly.</p> <p>Replace the HVPS card assembly.</p> <p>Perform a print test.</p> <p>Does the error continue?</p>	Go to step 9.	Problem solved.
9	<p>Check the printer engine card assembly.</p> <p>Replace the printer engine card assembly.</p> <p>Perform a print test.</p> <p>Does the error continue?</p>	<p>Replace the RIP card assembly.</p> <p>Go to “RIP card assembly removal” on page 4-130.</p>	Problem solved.

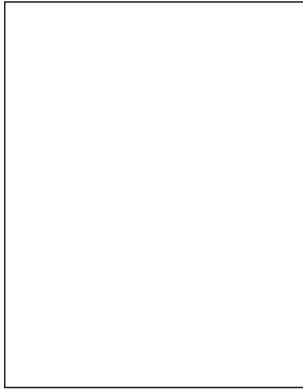
Previous



Next



Go Back

Blank print (no print)

Previous



Next



Go Back

Check the media path for foreign objects such as staples, clips, and scraps of media.

Step	Check	Yes	No
1	Check the toner cartridge. Install a new toner cartridge. Re-print the defective image. Is the image density normal?	Problem solved.	Go to step 2.
2	Check the transfer roll assembly. Remove the transfer roll assembly. Check the transfer roll assembly rotation. Is the transfer roll assembly free of excess wear and contamination?	Go to step 3.	Replace the transfer roll assembly.
3	Check the PC cartridge installation condition. Remove the PC cartridge. Check the PC cartridge connections. Are the PC cartridge connections free of excess wear and contamination?	Go to step 4.	Correct and clean contaminated pins, or replace the PC cartridge or connector.
4	Check the PC cartridge ground. Remove the PC cartridge. Check the drum grounding plate, located behind the rear motor cover. This plate can be found behind the flywheel. Is the drum grounding plate free of excess wear and contamination?	Go to step 5.	Correct and clean the drum grounding plate, or replace the PC cartridge.
5	Check the laser beam route. Check for debris between the printhead assembly and the PC drum. Check the printhead assembly window for contamination. Is the laser beam route free of debris and the glass window, in the printhead assembly, free of contamination?	Go to step 6.	Remove debris, or clean the printhead assembly window.

Step	Check	Yes	No
6	Check the printhead installation. Is the printhead assembly installed properly with four screws?	Go to step 8.	Go to step 7.
7	Check the printhead assembly installation. Install the printhead assembly properly, and perform a print test. Does the error continue?	Go to step 8.	Problem solved.
8	Check the printhead for proper connection. Warning: If too much force is applied to the board when checking it, the printhead could become misaligned.	Go to step 9.	Replace the connection.
9	Check the image development process. Perform a print test. Turn off the printer power while printing. Carefully remove the PC cartridge. Check the toner image formed on the drum before the transfer roll assembly. Is the image completely formed on the drum, and the area clear, black, and easy to read?	Go to step 10.	Go to step 11.
10	Check the image transfer process. Check the toner image formed on the drum, after the transfer roll assembly. Is the toner image completely transferred on the media?	Go to step 12.	Go to step 11.
11	Check the HVPS card assembly. Replace the HVPS card assembly. Perform a print test. Does the error continue?	Go to step 12.	Problem solved.
12	Check the printer engine card assembly. Replace the printer engine card assembly. Perform a print test. Does the error continue?	Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.	Problem solved.

Previous



Next



Go Back

Solid black

Previous



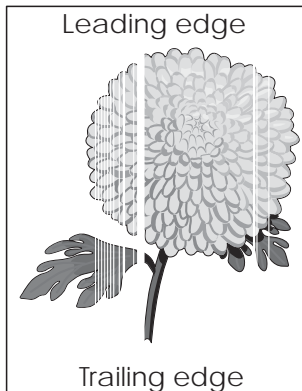
Next



Go Back

Check the media path for foreign objects such as staples, clips, scraps of media.

Step	Check	Yes	No
1	Check the toner cartridge. Install a new toner cartridge. Re-print the defective image. Is the image density normal?	Problem solved.	Go to step 2.
2	Check connector JHAB1 on the RIP card assembly. Is the above connector connected properly?	Go to step 3	Replace the connection.
3	Check the HVPS card assembly. Replace the HVPS card assembly. Perform a print test. Does the error continue?	Go to step 4.	Problem solved.
4	Check the printer engine card assembly. Replace the printer engine card assembly. Perform a print test. Does the error continue?	Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.	Problem solved.

Vertical blank lines (white stripes in media transport direction)

Previous




Next



Go Back

Step	Check	Yes	No
1	Check the media condition. Load new, dry, recommended media. Re-print the defective image. Does the error continue?	Go to step 2.	Problem solved.
2	Is the media transfer route and the media path clear of debris?	Go to step 3.	Remove debris or contamination.
3	Check laser beam route. Check for debris between the transfer roll assembly and the PC drum. Check the printhead assembly window for contamination. Is there any debris in the laser beam route and is the printhead assembly window free of debris and contamination?	Go to step 4.	Remove debris, or clean the printhead assembly window.
4	Check the printhead assembly installation. Is the printhead assembly installed properly with four screws?	Go to step 6.	Go to step 5.
5	Check the printhead assembly installation. Install the printhead assembly properly, and perform a print test. Does the error continue?	Go to step 6.	Problem solved.
6	Check the toner cartridge. Install a new toner cartridge. Re-print the defective image. Is the image density normal?	Problem solved.	Go to step 7.
7	Check the transfer roll assembly. Remove the transfer roll assembly. Is the transfer roll assembly rotating, free of contamination and wear?	Go to step 8.	Replace the transfer roll assembly.

Step	Check	Yes	No
8	 Check the heat roll and pressure roll. Remove the fuser unit assembly. Is there contamination or cracking on the heat roll or pressure roll?	Replace the fuser unit assembly.	Go to step 9.
9	Check the printer engine card assembly. Replace the printer engine card assembly. Perform a print test. Does the error continue?	Go to step 10.	Problem solved.
10	Check the printhead for connection. Warning: If too much force is applied to the board when checking it, the printhead could become misaligned. Is the component connected properly?	Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.	Replace the connection.

Previous

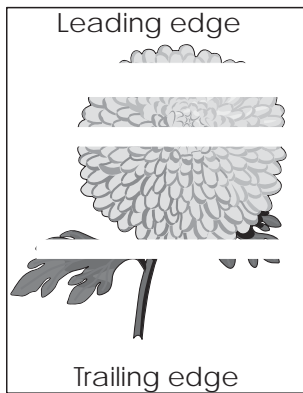


Next



Go Back

Horizontal bands




Previous



Next



Go Back

Step	Check	Yes	No
1	<p>Check the media condition.</p> <p>Load new, dry, and recommended media.</p> <p>Re-print the defective image.</p> <p>Does the error continue?</p>	Go to step 2.	Problem solved.
2	<p>Are the media transfer route and the media path free of contamination and debris?</p>	Go to step 3.	Remove debris or contamination.
3	<p>Check the toner cartridge.</p> <p>Install a new toner cartridge.</p> <p>Re-print the defective image.</p> <p>Is the image density normal?</p>	Problem solved.	Go to step 4.
4	<p>Check the transfer roll assembly.</p> <p>Remove the transfer roll assembly.</p> <p>Check the transfer roll assembly for rotation, contamination and wear.</p>	Go to step 5.	Replace the transfer roll assembly.
5	<p>Check white-band pitch.</p> <p>Is the white-band pitch approximately 78 mm (heat roll circumference)?</p>	Go to step 6.	Go to step 9.
6	<p> Check the heat roll and pressure roll.</p> <p>Remove the fuser unit assembly.</p> <p>Is there contamination or cracking on the heat roll and/or the pressure roll?</p>	Replace the fuser unit assembly.	Go to step 7.
7	<p>Check the image development process.</p> <p>Perform a print test. Turn off the printer power while printing.</p> <p>Carefully remove the PC cartridge, and check the toner image formed on the drum before the transfer roll assembly.</p> <p>Is the image completely formed on the drum, and is the area clear, black, and easy to read?</p>	Go to step 8.	Go to step 9.

Step	Check	Yes	No
8	Check the image transfer process. Check the toner image formed on the drum after the transfer roll assembly passed. Is the toner image completely transferred on the media?	Go to step 10.	Go to step 9.
9	Check the HVPS card assembly. Replace the HVPS card assembly. Perform a print test. Does the problem continue?	Go to step 10.	Problem solved.
10	Check the printer engine card assembly. Replace the printer engine card assembly. Perform a print test. Does the error continue?	Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.	Problem solved.

Previous

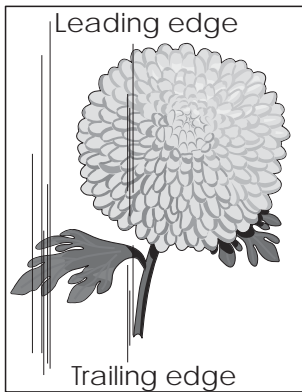


Next



Go Back

Vertical stripes



Previous




Next



Go Back

Step	Check	Yes	No
1	Check the media condition. Load new, dry, recommended media. Re-print the defective image. Does the error continue?	Go to step 2.	Problem solved.
2	Are the media transfer route and the media path free of contamination or debris?	Go to step 3.	Remove debris or contamination.
3	Check the toner cartridge. Install a new toner cartridge. Re-print the defective image. Is the image density normal?	Problem solved.	Go to step 4.
4	Check the transfer roll assembly. Remove the transfer roll assembly. Is the transfer roll assembly rotating, free of contamination and wear?	Go to step 5.	Replace the transfer roll assembly.
5	Check the PC cartridge installation condition. Remove the PC cartridge. Check the PC cartridge connections. Are the PC cartridge connections free of excess wear and contamination?	Go to step 6.	Correct and clean contaminated pins, or replace the PC cartridge or connector.
6	Check the PC cartridge ground. Remove the PC cartridge. Check the drum grounding plate located behind rear motor cover. This plate can be found behind the flywheel. Is the drum grounding plate free of excess wear and contamination?	Go to step 7.	Correct and clean the drum grounding plate, or replace the PC cartridge.

Step	Check	Yes	No
7	Check the laser beam route. Check for debris between the transfer roll assembly and the PC drum. Check the printhead assembly window for contamination. Is there any debris in the laser beam route or the printhead assembly window?	Go to step 8.	Remove debris, or clean the transfer roll assembly window.
8	 Check the heat roll and pressure roll. Remove the fuser unit assembly. Is there contamination or cracking on the heat roll and/or pressure roll?	Replace the fuser unit assembly.	Go to step 9.
9	Check the printer engine card assembly. Replace the printer engine card assembly. Perform a print test. Does the error continue?	Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.	Problem solved.

Previous

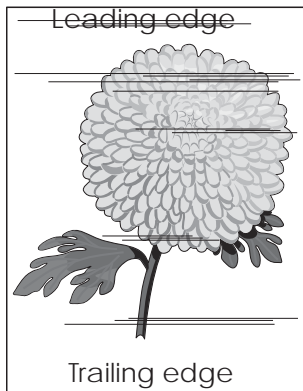


Next



Go Back

Horizontal stripes




Previous



Next



Go Back

Step	Check	Yes	No
1	<p>Check the media condition. Load new, dry, recommended media. Re-print the defective image. Does the error continue?</p>	Go to step 2.	Problem solved.
2	<p>Check the media transfer route. Check the media route for contamination or obstacles.</p>	Go to step 3.	Remove obstacles or contamination.
3	<p>Check the toner cartridge. Install a new toner cartridge. Re-print the defective image. Is the image density normal?</p>	Problem solved.	Go to step 4.
4	<p>Check the transfer roll assembly. Remove the transfer roll assembly. Is the transfer roll assembly free of contamination and wear?</p>	Go to step 5.	Replace the transfer roll assembly.
5	<p>Check white-band pitch. Is the white-band pitch approximately 78 mm (heat roll circumference)?</p>	Go to step 9	Go to step 6.
6	<p> Check the heat roll and pressure roll. Remove the fuser unit assembly. Is there any contamination or crack on the heat roll and/or pressure roll?</p>	Replace the fuser unit assembly.	Go to step 7.
7	<p>Check the image development process. Perform a print test. Turn off the printer power while printing. Carefully remove the toner cartridge, and check the toner image formed on the drum before the transfer roll assembly. Is the image completely formed on the drum, and is the area clear, black, and easily read?</p>	Go to step 8.	Go to step 9.

Step	Check	Yes	No
8	Check the image transfer process. Check the toner image formed on the drum after the transfer roll assembly passed. Is the toner image completely transferred on the media?	Go to step 9.	Go to step 10.
9	Check the HVPS. Replace the HVPS. Perform a print test. Does the error continue?	Go to step 10.	Problem solved.
10	Check the printer engine card assembly. Replace the printer engine card assembly. Perform a print test. Does the error continue?	Go to step 11.	Problem solved.
11	Check the printhead assembly for connection. Warning: If too much force is applied to the board when checking it, the printhead could become misaligned. Are P/J130, P/J620 and P/J406 connected properly?	Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.	Replace the connections.

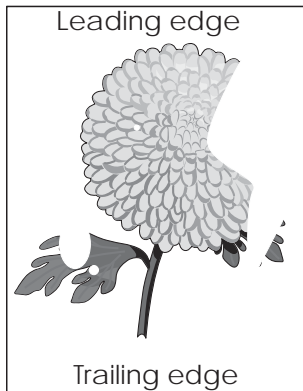
Previous



Next



Go Back

Partial lack


Previous



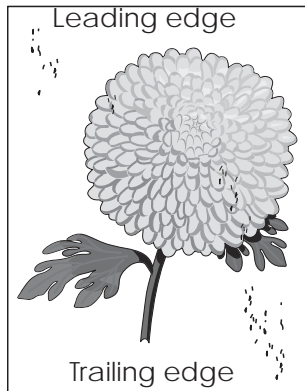
Next



Go Back

Step	Check	Yes	No
1	Check the media condition. Load new, dry, recommended media. Re-print the defective image. Does the error continue?	Go to step 2.	Problem solved.
2	Check the media transfer route. Is the media path free of contamination or debris?	Go to step 3.	Remove debris or contamination.
3	Check the toner cartridge. Install a new toner cartridge. Re-print the defective image. Is the image density normal?	Problem solved.	Go to step 4.
4	Check the transfer roll assembly. Remove the transfer roll assembly. Is the transfer roll assembly rotating, and free of contamination, and wear?	Go to step 5.	Replace the transfer roll assembly.
5	 Check the heat roll and the pressure roll. Remove the fuser unit assembly. Is there contamination or cracking on the heat roll and/or the pressure roll?	Replace the fuser unit assembly.	Go to step 6.
6	Check the printer engine card assembly. Replace the printer engine card assembly. Perform a print test. Does the error continue?	Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.	Problem solved.

Spots




Previous



Next



Go Back

Step	Check	Yes	No
1	<p>Check the media condition.</p> <p>Load new, dry, recommended media.</p> <p>Re-print the defective image.</p> <p>Does the error continue?</p>	Go to step 2.	Problem solved.
2	<p>Check the media transfer route.</p> <p>Is the media route free of contamination or debris?</p>	Go to step 3.	Remove debris or contamination.
3	<p>Check the toner cartridge.</p> <p>Install a new toner cartridge.</p> <p>Re-print the defective image.</p> <p>Is the image density normal?</p>	Problem solved.	Go to step 4.
4	<p>Check the transfer roll assembly.</p> <p>Remove the transfer roll assembly.</p> <p>Is the transfer roll assembly rotating, and free of contamination, and wear?</p>	Go to step 5.	Replace the transfer roll assembly.
5	<p> Check the heat roll and the pressure roll.</p> <p>Remove the fuser unit assembly.</p> <p>Is there contamination or cracking on the heat roll and/or the pressure roll?</p>	Replace the fuser unit assembly.	Go to step 6.
6	<p>Check the printer engine card assembly.</p> <p>Replace the printer engine card assembly.</p> <p>Perform a print test.</p> <p>Does the error continue?</p>	<p>Replace the RIP card assembly.</p> <p>Go to “RIP card assembly removal” on page 4-130.</p>	Problem solved.

After image

Previous




Next



Go Back

The ghost appears on the media which, may be the image from the previous page or part of the page currently printing.

Step	Check	Yes	No
1	Check the media condition. Load new, dry, recommended media. Re-print the defective image. Does the error continue?	Go to step 2.	Problem solved.
2	Check the toner cartridge. Install a new toner cartridge. Re-print the defective image. Is the image density normal?	Problem solved.	Go to step 3.
3	 Check the heat roll and the pressure roll. Remove the fuser unit assembly. Is there contamination or cracking on the heat roll and/or pressure roll?	Replace the fuser unit assembly.	Go to step 4.
4	Check the printer engine card assembly. Replace the printer engine card assembly. Perform a print test. Does the error continue?	Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.	Problem solved.

Background (fog)

Previous



Next



Go Back

Step	Check	Yes	No
1	Check the media condition. Load new, dry, recommended media. Re-print the defective image. Does the error continue?	Go to step 2.	Problem solved.
2	Check the media transfer route. Is the media path free of contamination or debris?	Go to step 3.	Remove debris or contamination.
3	Check the toner cartridge. Install a new toner cartridge. Re-print the defective image. Is the image density normal?	Problem solved.	Go to step 4.
4	Check the transfer roll assembly. Remove the transfer roll assembly. Is the transfer roll assembly rotating, and free of contamination, and wear?	Go to step 5.	Replace the transfer roll assembly.
5	Check the image development process. Perform a print test. Turn off the printer power while printing. Carefully remove the PC cartridge, and check the toner image formed on the drum before the transfer roll assembly. Is the image completely formed on the drum and the area clear, black, and easily read?	Go to step 6.	Go to step 7.
6	Check the image transfer process. Check the toner image formed on the drum after the transfer roll assembly passed. Is the toner image completely transferred on the media?	Go to step 8.	Go to step 7.
7	Check the HVPS card assembly. Replace the HVPS card assembly. Perform a print test. Does the error continue?	Go to step 8.	Problem solved.

Step	Check	Yes	No
8	Check the printer engine card assembly. Replace the printer engine card assembly. Perform a print test. Does the error continue?	Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.	Problem solved.

Previous



Next



Go Back

Skew



The printed image is not paralleled with both sides of the media.

Step	Check	Yes	No
1	Check printer installation placement. Check the installation surface for irregularities. Check for missing printer foot. Is the setup surface normal?	Go to step 2.	Correct the installation placement.
2	Properly load media into the media tray assembly. Properly install the media tray assembly into the printer. Re-print the defective image. Does the error continue?	Go to step 3.	Problem solved.
3	Is the media transfer route and the media route free of contamination or debris?	Go to step 4.	Remove debris or contamination.
4	Check the drive rolls on the media transfer route. Check all rolls on the transfer route for contamination, wear or damage. Check whether the pinch rolls rotate freely and spring pressure is applied evenly. Are all drive rolls free of contamination, wear or damage?	Go to step 5.	Replace defective rolls. (Go to applicable repair procedures for replacement.)

Step	Check	Yes	No
5	Check the printer engine card assembly. Replace the printer engine card assembly. Perform a print test. Does the error continue?	Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.	Problem solved.

Previous



Next



Go Back

Media damage


Previous

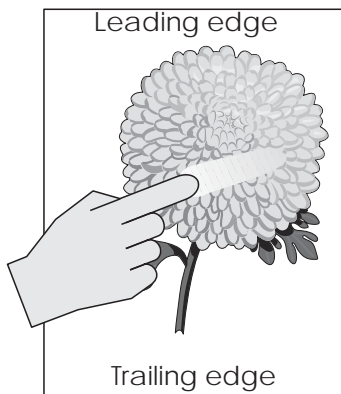


Next



Go Back

Step	Check	Yes	No
1	Check printer installation placement. Check the installation surface for irregularities. Check for missing printer foot. Is the setup surface normal?	Go to step 2.	Correct the installation placement.
2	Check the media feed. Remove the media tray assembly. Properly load media in the media tray assembly. Properly install the media tray assembly in the printer. Re-print the defective image. Does the error continue?	Go to step 3.	Problem solved.
3	Check the media condition. Load new, dry, recommended media. Re-print the defective image. Does the error continue?	Go to step 4.	Problem solved.
4	Check the media transfer route. Is the media path free of contamination or debris?	Go to step 5.	Remove debris or contamination.
5	Check the drive rolls on the media transfer route. Check all rolls on the transfer route for contamination, wear or damage. Are the pinch rolls rotating freely and spring pressure applied evenly?	Go to step 6.	Replace defective rolls. (Go to applicable repair procedures for replacement.)
6	 Check the heat roll and the pressure roll. Remove the fuser unit assembly. Is there contamination or cracking on the heat roll and/or the pressure roll?	Replace the fuser unit assembly.	Contact the technical engineer.

No fuse


Previous



Next



Go Back

Step	Check	Yes	No
1	Check the fuser unit assembly installation. Check that the levers, on both sides of the fuser unit assembly, are pushed down. Re-print the defective image. Does the error continue?	Go to step 2.	Problem solved.
2	Check the media condition. Load new, dry, recommended media. Re-print the defective image. Does the error continue?	Go to step 3.	Problem solved.
3	 Check the heat roll and the pressure roll. Remove the fuser unit assembly. Is there contamination or cracking on the heat roll and/or the pressure roll?	Replace the fuser unit assembly.	Go to step 4.
4	Check the image development process. Perform a print test. Turn off the printer power while printing. Carefully remove the PC cartridge, and check the toner image formed on the drum before the transfer roll assembly. Is the image completely formed on the drum and the area clear, black, and easily read?	Go to step 5.	Go to step 7.
5	Check the image transfer process. Check the toner image formed on the drum after the transfer roll assembly is passed. Is the toner image completely transferred on the media?	Go to step 7.	Go to step 6.
6	Check the HVPS card assembly. Replace the HVPS card assembly. Perform a print test. Does the error continue?	Go to step 7.	Problem solved.

Step	Check	Yes	No
7	Check the printer engine card assembly. Replace the printer engine card assembly. Perform a print test. Does the error continue?	Replace the RIP card assembly. Go to “RIP card assembly removal” on page 4-130.	Problem solved.

Previous



Next



Go Back

Previous



Next



Go Back

3. Diagnostic aids

This chapter explains the tests and procedures to identify printer failures and to verify that repairs have corrected the problem.

Previous





Next



Go Back

Accessing service menus

Access the following menus to identify problems with the printer and run diagnostic tests.

<p>Diagnostics Menu</p> 	<ol style="list-style-type: none"> 1. Turn off the printer. 2. Press and hold the 3 and 6 buttons simultaneously. 3. Turn on the printer. 4. Release the buttons after 10 seconds. 	<p>The Diagnostics Menu group consists of menus, settings, and operations that are used to diagnose various printer problems.</p> <p>Note: While the Diagnostics Menu Group is active, all host interfaces are offline.</p> <p>See “Entering Diagnostics Menus” on page 3-2 for more information.</p>
<p>Configuration Menu</p> 	<ol style="list-style-type: none"> 1. Turn off the printer. 2. Press and hold the 2 and 6 buttons simultaneously. 3. Turn on the printer. 4. Release the buttons after 10 seconds. 	<p>The Configuration Menu group contains a set of menus, settings, and operations which are infrequently required by a user. Generally, the options made available in this menu group are used to configure a printer for operation.</p> <p>See “Entering Configuration Menu” on page 3-33 for more information.</p>

Diagnostics Menus

Entering Diagnostics Menus

1. Turn off the printer.
2. Press and hold the **3** and **6** buttons simultaneously.
3. Turn on the printer.
4. Release the buttons after 10 seconds.

Available tests

Tests appear on the display in the order shown:

MOTOR TESTS	See "MOTOR TESTS" on page 3-5.
Finisher Motor Tests	
Sub paddle solenoid	
Media eject clutch	
Stapler unit mtr	
Bridge unit drv mtr	
Motor (entrance/paddle)	
Motor (buffer/transport)	
Motor (exit)	
Media eject clamp mtr	
Media eject mtr	
Punch unit mtr	
Fin diverter solenoid	
Fin Buffer solenoid	
Punch carriage shift mtr	
Front tamper mtr	
Rear tamper mtr	
Stapler carriage mtr	
Stacker lift mtr	
Printer Motor Tests	
Transport mtr	
2TM/TTM drv mtr	
2TM/TTM Clutch	
HCF transport mtr	
HCF pick solenoid	
MPF/Transport mtr	
Fuser cooling fan	
PC unit cooling fan	
Toner add mtr	
Drum unit	
Registrat clutch	

Previous



Next



Go Back

Tray 1 feed mtr	
Tray 2 feed mtr	
Tray 3 feed mtr	
Tray 4 feed mtr	
Tray 5 feed mtr	
MPF pick solenoid	
Duplex drv mtr	
Diverter solenoid	
Exit 2 cooling fan	
Tray 1 lift mtr	
Tray 2 lift mtr	
Tray 3 lift mtr	
Tray 4 lift mtr	
Tray 5 lift mtr	
Exit 1 shift mtr	
Exit 2 shift mtr	
Exit 2 drive mtr	
Scanner Motor Tests	
ADF Feed drv mtr	
Exposure lamp	
Scanner cooling fan	
ADF Reg drv	
Scanner drv	
Inverter solenoid	
Pick roll position mtr	
Document set LED	
PRINT TESTS	See "PRINT TESTS" on page 3-6.
Tray 1	
Tray 2	
Tray 3	
Tray 4	
Tray 5 (if installed)	
MP Feeder	
Printing Quality Test Pages	See "Print Quality Test Pages" on page 3-6.
Print Defects Guide	
HARDWARE TESTS	
Panel Test	See "Panel Test" on page 3-7.
Button Test	See "Button Test" on page 3-7.
DRAM Test	See "DRAM Test" on page 3-8.
CACHE Test	See "CACHE Test" on page 3-9.
DUPLEX TESTS	
Quick Test	See "Quick Test" on page 3-10.
Sensor Test	See "Sensor Test (duplex)" on page 3-10.

Previous



Next



Go Back

INPUT TRAY TESTS		
Feed Tests		See "Feed Tests" on page 3-10.
Sensor Test		See "Sensor Test (input tray)" on page 3-11.
OUTPUT BIN TESTS		
Feed Tests		See "Feed Tests (output bins)" on page 3-12.
Feed To All Bins		See "Feed To All Bins" on page 3-12.
Sensor Test		See "Sensor Test (output bin)" on page 3-13.
FINISHER TESTS		
Staple Test		See "Staple Test" on page 3-13.
Hole Punch Test		See "Hole Punch Test" on page 3-14.
Feed Tests		See "Feed Tests (Finisher)" on page 3-14.
Sensor Tests		See "Sensor Test (Finisher)" on page 3-14.
BASE SENSOR TESTS		
		See "BASE SENSOR TEST" on page 3-16.
Cover and Door		
Devices		
Exit Level		
Media Path		
DEVICE TESTS		
		See "DEVICE TESTS" on page 3-17.
Quick Disk Test		
Disk Test/Clean		
PRINTER SETUP		
	Defaults	See "Defaults" on page 3-19.
	Printed Page Count	See "Printed Page Count" on page 3-20.
	Permanent Page Count	See "Permanent Page Count" on page 3-20.
	Serial Number	See "Serial Number" on page 3-20.
	Engine Setting 1 to 16	See "Engine Setting 1 to 16" on page 3-20.
	Model Name	See "Model Name" on page 3-20.
	Configuration ID	See "Configuration ID" on page 3-20.
	Edge to Edge	See "Edge to Edge" on page 3-21.
	Enable Edge to Edge Copy	See "Enable Edge to Edge Copy" on page 3-21.
EVENT LOG		
	Display Log	See "Display the Event Log" on page 3-22.
	Print Log	See "Print the Event Log" on page 3-24.
	Clear Log	See "Clear the Event Log" on page 3-24.
REPORTS		
		See "REPORTS" on page 3-22.
SCANNER TESTS		
	ASIC Test	See "ASIC Test" on page 3-25.
	Feed Test	See "Feed Test" on page 3-25.
	Scanner Manual Registration	See "Scanner Manual Registration" on page 3-26.
	Sensor Tests	See "Sensor Test (Scanner Tests)" on page 3-31.
ENGINE ADJUST		
	Exit Diagnostics Menu	See "Exiting Diagnostics Menu" on page 3-32.

Previous



Next



Go Back

MOTOR TESTS

The tests in this group allow you to test specific motors, and on some motors run them forward or reverse.

To run the MOTOR TESTS:

1. Touch **MOTOR TESTS** from the Diagnostics Menu.
2. Touch the test to run.

The following Finisher Motor Tests are available:

- Sub paddle solenoid
- Media eject clutch
- Stapler unit mtr
- Bridge unit drv mtr
- Motor (entrance/paddle)
- Motor (buffer/transport)
- Motor (exit)
- Media eject clamp mtr
- Media eject mtr
- Punch unit mtr
- Fin diverter solenoid
- Fin Buffer solenoid
- Punch carriage shift mtr
- Front tamper mtr
- Rear tamper mtr
- Stapler carriage mtr
- Stacker lift mtr

The following Printer Motor Tests are available:

- Transport mtr
- 2TM/TTM drv mtr
- 2TM/TTM Clutch
- HCF transport mtr
- HCF pick solenoid
- MPF/Transport mtr
- Fuser cooling fan
- PC unit cooling fan
- Toner add mtr
- Drum unit
- Registrat clutch
- Tray 1 feed mtr
- Tray 2 feed mtr
- Tray 3 feed mtr
- Tray 4 feed mtr
- Tray 5 feed mtr
- MPF pick solenoid
- Duplex drv mtr
- Diverter solenoid
- Exit 2 cooling fan
- Tray 1 lift mtr
- Tray 2 lift mtr
- Tray 3 lift mtr
- Tray 4 lift mtr
- Tray 5 lift mtr
- Exit 1 shift mtr
- Exit 2 shift mtr
- Exit 2 drive mtr

The following Scanner Motor Tests are available:

- ADF feed drv mtr
- Exposure lamp
- Scanner cooling fan
- ADF registration drv mtr
- Scanner drv mtr
- Inverter solenoid
- Pick roll position mtr
- Document set LED

3. During the test, Motor Runni ng... appears on the display.

Note: If available, **Forward** and **Reverse** options appear on the display for selected tests.

Press **Stop**  to stop the test.

Previous



Next




Go Back

PRINT TESTS

To run the Print Tests:

1. Touch **PRINT TESTS** from the Diagnostics Menu.
2. Touch **[Input Source]** to verify that the printer can generate output from that source's media.
3. Touch **Printing Quality Test Pages** to view information about the printer's current settings and to test the printer's ability to generate quality output.

Input source	Appears on the display
Tray 1	Tray 1 Printing...
Tray 2	Tray 2 Printing...
Tray 3	Tray 3 Printing...
Tray 4	Tray 4 Printing...
Tray 5 (if installed)	Tray 5 Printing...
MP Feeder	MP Feeder Printing...
Printing Quality Test Pages	Printing Quality Test Pages...

4. Touch **Single** or **Continuous**.
 - If **Single** is selected, a single page is printed.
 - If **Continuous** is selected, printing continues until **Stop**  is pressed to cancel the test. If a source is selected that contains envelopes, an envelope test pattern is printed. If **Continuous** is selected, the test pattern is printed only on the first envelope.

After a Single test has printed or a Continuous test canceled, the display returns to PRINT TESTS.

Input Source Print Test

Regardless of the input source selected, the printer always generates a simplex version of the Print Test page using its default resolution.

Print Quality Test Pages

This setting enables you to view the values of a broad range of the device's settings and to test the device's ability to generate acceptable printed output.

The printer automatically generates four pages in English. The device always uses the media that is currently installed in Tray 1 to print this report. Once started, printing cannot be canceled and all key presses are ignored until printing completes.

If Duplex is activated, this report will be printed on both sides of the paper; otherwise, it will be printed on the front sides of the paper only.

Previous



Next



Go Back

Print Quality Pages Content by Report Page Number

Page Number	Content
1	General printer information includes: <ul style="list-style-type: none"> • A circular graphic with spokes emanating from a dark center • Device Information • (Envelope Enhance) • Engine Setting 1 to 16 • Edge to Edge • Current values of each variable listed • A repeated string of characters in varying font sizes
2	Page is gray with two black squares
3	Page is solid black
4	Page is blank (this page verifies that the device does not streak or smear toner)

Previous



Next



Go Back


HARDWARE TESTS

Touch the following Hardware Tests from this menu:

- Panel Test
- Button Test
- DRAM Test
- CACHE Test

Panel Test

This test automatically toggles all pixels on the display through every contrast level beginning with the darkest to the brightest. This test shows non-functioning pixels as blank spaces during the darkest contrast.

This test continues until you press **Stop** , then the display returns to HARDWARE TESTS.

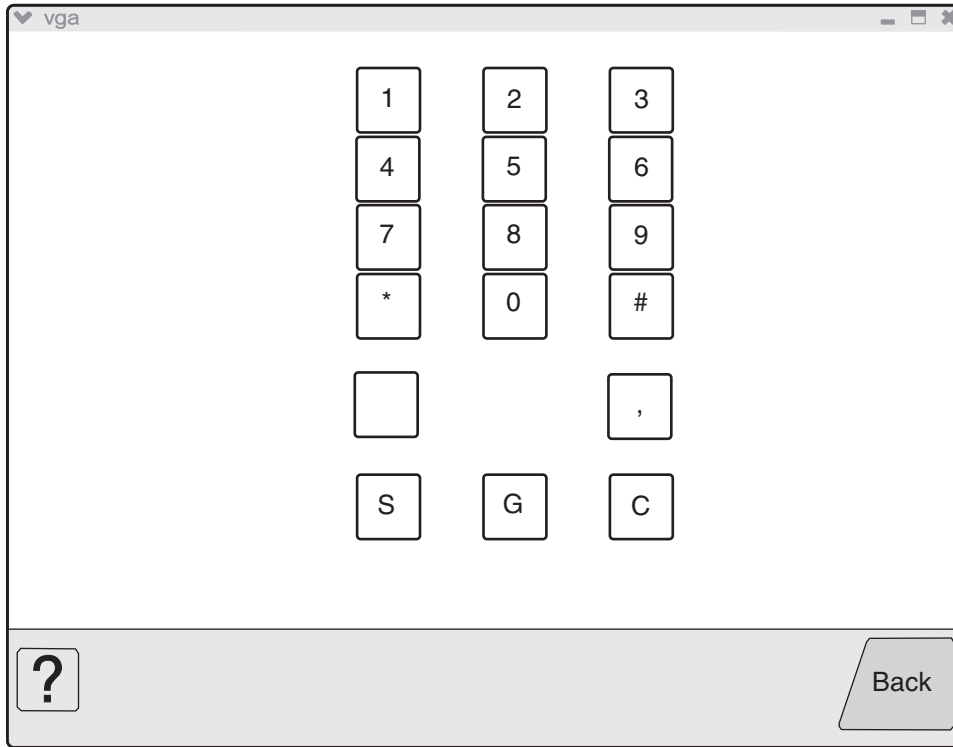
Button Test

The Button Test is used to verify the operation of each button on the operator panel.

To perform the Button Test:

1. Touch **HARDWARE TESTS** from the Diagnostics Menu.
2. Touch **Button Test**. A graphic of the operator panel buttons that matches the layout of the operator panel buttons appears on the display.
3. Press any button on the operator panel and that button on the display appears shaded.

- Release the button, and the shading is removed.



Previous



Next



Go Back

Touch **Back** to exit the test.

DRAM Test

The DRAM Test is used to check the validity of standard and optional DRAM memory. The test writes patterns of data to DRAM to verify that each bit in memory can be set and read correctly.

To run the DRAM Test:

- Touch **HARDWARE TESTS** from the Diagnostics Menu.
- Touch **DRAM Test**. DRAM Test Testing... appears on the display. Then the message Resetting the Printer appears and the power LED is green. While the DRAM test executes, the power indicator *blinks* amber. The printer automatically performs a POR.

The following type of message appears:

DRAM Test	256 MB	P: #####	F: ####
-----------	--------	----------	---------

- P:##### represents the number of times the memory test has passed and finished successfully. Initially 000000 displays with the maximum pass count being 999,999.
- F:##### represents the number of times the memory test has failed and finished with errors. Initially 0000 displays with the maximum fail count being 99,999. Initially only four digits appear, but additional digits appear as needed.

To stop this test before completion, turn the printer off.

CACHE Test

This test is used to verify the printer processor cache.

To run the CACHE Test:

1. Touch **HARDWARE TESTS** from the Diagnostics Menu.
2. Touch **CACHE Test**. **CACHE Test Testing...** appears on the display. Then the message **Resetting the Printer** appears. While the CACHE test executes, the power LED is green. The printer automatically performs a POR.

The following type of message appears:

CACHE Test	x100	P: #####	F: ####
------------	------	----------	---------

- P:##### represents the number of times the cache has passed and finished successfully. Initially 000000 displays with the maximum pass count being 999,999.
- F:##### represents the number of times the cache has failed and finished with errors. Initially 0000 displays with the maximum fail count being 99,999. Initially only four digits appear, but additional digits appear as needed.

Each time a test is completed, the number of passes and failures is incremented. If the test fails, the message **Failure** appears for approximately three seconds, and the failure count increases by one.

The test continues until all of the printer processor's cache has been tested. Once the maximum pass count or fail count is reached, the test is stopped, and the final results display.

To stop this test before completion, turn the printer off.

Previous




Next



Go Back

DUPLEX TESTS


Quick Test

This test prints a duplex version of the Quick Test that can be used to verify that the correct placement of the top margin on the back side of a duplex page. You can run one duplexed page (**Single**), or continue printing duplexed pages (**Continuous**) until **Stop**  is pressed.

Make sure either letter or A4 size paper is loaded in the default paper source. If the default source supports only envelopes, then the Quick Test will be printed from Tray 1.

To run the Quick Test:


1. Touch **DUPLEX TESTS** from the Diagnostics Menu.
2. Touch **Quick Test**.
3. Touch **Single** or **Continuous**. Quick Test Printing... appears on the display.
 - The single Duplex Quick test cannot be canceled.
 - The printer attempts to print the Quick Test Page from the default paper source. If the default paper source supports only envelopes, then the page is printed from Tray 1.
 - Check the Quick Test Page for the correct registration between the placement of the first scan line on the front and back side of a duplexed sheet.

The single test stops automatically when a single duplex sheet is printed, and the continuous test continues until you press **Stop** .

Sensor Test (duplex)

This test is used to determine whether or not the duplex sensors and switches are working correctly. The test allows you to actuate the duplex input sensor located in the back part of the duplex unit and the duplex exit sensor located in the return paper path.

1. Touch **DUPLEX TESTS** from the Diagnostics Menu.
2. Touch **Sensor Test**.
3. Touch **Duplex wait**. Duplex wait Testing... appears on the display.
4. Manually actuate each of the duplex wait sensors. When the sensor is closed, Closed appears; when the sensor is open, Open appears.

Press **Stop**  to cancel the test.

INPUT TRAY TESTS

Feed Tests

Use this test to observe the paper path of media as it passes through the printer. To observe the paper path, open the upper read door while this test executes. No information is printed on the feed test pages since the laser is not engaged during this test.

Note: The upper front door (used to access the print cartridge) cannot be opened during the feed test.

You can perform the feed test using media from any installed input source. All pages used during the feed test are dropped into the default output bin.

Previous



Next




Go Back

To run the Input Tray Tests:

1. Touch **INPUT TRAY TESTS** from the Diagnostics Menu.
2. Touch the input source.

Input source	Appears on the display
Tray 1	Tray 1 Feeding...
Tray 2	Tray 2 Feeding...
Tray 3	Tray 3 Feeding...
Tray 4	Tray 4 Feeding...
MP Feeder	MP Feeder Feeding...

3. Touch either **Single** or **Continuous**.
 - **Single**—Feeds one sheet of media from the selected source.
 - **Continuous**—Media continues feeding from the selected input source until **Stop**  is pressed.

Sensor Test (input tray)

This test is used to verify that a specific input tray's sensors are working correctly.

To run the Input Tray Sensor Test:

1. Touch **INPUT TRAY TESTS** from the Diagnostics Menu.
2. Touch **Sensor Test**.

After selecting **Sensor Test**, each installed input source, one source per line, appears on the display. When you select an input source, the selected input source in the header row appears on the display, and then the name of each of the source's sensors below the header row, one to a line. You must select a specific sensor from this list in order to view and toggle the sensor's state. The table below indicates which sensors are available in each input tray.

Input source	Sensors							
	Pre-feed ¹	Feed-out ²	Media out ³	Media level ⁴	HCF unit docking ⁵	HCF media tray set ⁶	HCF media size L	HCF media size R
Tray 1	Yes	No	Yes	Yes	No	No	No	No
Tray 2	Yes	Yes	Yes	Yes	No	No	No	No
Tray 3	Yes	Yes	Yes	Yes	No	No	No	No
Tray 4	Yes	Yes	Yes	Yes	No	No	No	No
Tray 5	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MP Feeder	No	No	Yes	No	No	No	No	No

¹Pre-feed Testing... appears on the display with the sensor's current state (Open or Closed).

²Feed-out Testing... appears on the display with the sensor's current state (Open or Closed).

³Media out Testing... appears on the display with the sensor's current state (Open or Closed).

⁴Media level Testing... appears on the display with the sensor's current state (Open or Closed).

⁵Hcf unit docking Testing... appears on the display with the sensor's current state (Open or Closed).

⁶Hcf media tray set Testing... appears on the display with the sensor's current state (Open or Closed).

Previous



Next



Go Back

After selecting a specific sensor, you can manipulate the printer in such a way as to toggle the sensor between its two values (Open or Closed).


Press **Stop**  to exit the test.


OUTPUT BIN TESTS


Feed Tests (output bins)

Use these tests to verify that media can be fed to a specific output bin. Media is fed from the default input source to the selected output bin. No information is printed on the media fed to the output bin because the printhead is not engaged during this test. These tests can use any media size or envelope supported by the printer.

To run the Feed Tests for the output bins:

1. Touch **OUTPUT BIN TESTS** from the Diagnostics Menu.
2. Touch **Feed Tests**.
3. Touch the output bin you want the paper to exit into. The standard bin as well as any output option bin installed on the printer is shown on the menu. (The output bins are displayed in the order installed on the printer.)
 - Standard Bin
 - Output Bin 1
 - Output Bin 2
4. Touch either **Single** or **Continuous**.
 - **Single**—Feeds one sheet of media from the selected source.
 - **Continuous**—Media continues feeding from the selected source until **Stop**  is pressed.

Press **Stop**  to return to OUTPUT BIN TESTS.

While this test runs, [Selected Output Bin] Feeding... appears on the display. During Single tests, no buttons are active. However, during Continuous tests, you can press **Stop**  to cancel the test. If a test is canceled, [Selected Output Bin] Canceled appears on the display.


Feed To All Bins

This test can be used to verify that the printer can feed media to the standard bin or any installed output options. No information will be printed on the test pages, as the printhead is not engaged during the feed test. The media feeds from the default paper source.

To run the Feed To All Bins Test:

1. Touch **OUTPUT BIN TESTS** from the Diagnostics Menu.
2. Touch **Feed To All Bins**.

The printer feeds media from the default source to each installed bin. After the test is selected, the printer feeds a separate piece of media to the standard bin first, then it feeds a separate piece of media to each output bin installed. While this test runs, All Bin Test Feeding... appears on the display.

The test is continuous until **Stop**  is pressed. If a test is canceled, All Bin Test Canceled... appears on the display, and feeds any remaining media in the paper path to the appropriate output destination.



Sensor Test (output bin)

This test is used to verify that a specific output bin's sensors are working correctly.

To run the Output Bin Sensor Test:

1. Touch **OUTPUT BIN TESTS** from the Diagnostics Menu.
2. Touch **Sensor Test**.

The panel displays each installed bin, one bin per line. When you select an output bin, the panel displays the selected output bin in the header row, and then displays the name of each of the bin's sensors. You must select a specific sensor from this list in order to view and toggle the sensor's state. After selecting a specific sensor, [Sensor Name] Test ing . . . the sensor's name in the header row appears on the display and, below the header row, the sensor's name and current state. The table below indicates which sensors are available in each output bin.

Output Bin	Std bin full exit1	Std bin full exit2	Fin upper bin full	Stacker bin level1	Stacker bin level2
Standard Bin	✓	✓			
Output Bin 1			✓		
Output Bin 2				✓	✓

When you select a specific sensor, the sensor's current state (Open or Closed) appears on the display. You can manipulate the printer in such a way as to actuate the selected sensor. **Closed** appears on the display when the sensor is closed, or **open** when the sensor is open. If the wrong message is displayed, then the sensor must be malfunctioning.

Press **Stop**  to exit the test.

FINISHER TESTS

Staple Test

This test is used to verify the functioning of the finisher's staple mechanism.

To run the Staple Test

1. Touch **FINISHER TESTS** from the Diagnostics Menu.
2. Touch **Staple Test**.

The printer feeds eight pieces of media from the default input source to the output bin that supports stapling. After all eight pieces of media are deposited, the device staples the packet. While this test runs, Staple Test Runni ng . . . appears on the display.

Press **Stop**  to cancel the test.

Previous



Next



Go Back

Hole Punch Test

This test is used to verify that media can be fed to a finisher output bin and then hole punched. No information is printed on the feed test pages.

To run the Hole Punch Test:

1. Touch **FINISHER TESTS** from the Diagnostics Menu.
2. Touch **Hole Punch Test**.

Eight sheets of paper are fed, and then the pages are hole-punched with a 2-hole or 3-hole pattern depending on the selected punch test. Media is initially requested from the default input source and then output to the Finisher output bin.

The Hole Punch Test cannot be canceled. No buttons are active during this test. During the test, **Hole Punch Test Running...** appears on the display. After completion of the test, the display returns to the Hole Punch Test screen.

Feed Tests (Finisher)

This test is used to verify that media can be fed to a finisher output bin. This test feeds one sheet of media from the printer's default input source to a finisher output bin. The device can perform this test using any paper size that is supported by the finisher. No information is printed on the test page.

To run the Feed Test:

1. Touch **FINISHER TESTS** from the Diagnostics Menu.
2. Touch **Feed Tests**.

You cannot specify the output bin to which the device will feed the test page. Once begun, the Feed Test cannot be canceled. No buttons are active during the test. During this test, **Feed Test Running...** appears on the display.

Sensor Test (Finisher)

This test verifies that the sensors in the finisher are operating properly.

To run the Feed Test:

1. Touch **FINISHER TESTS** from the Diagnostics Menu.
2. Touch **Sensor Test**.

The option's name in the header row and each of the option's sensors below the header row appear on the display. You must select a specific sensor from this list in order to view and toggle the sensor's state. After selecting a specific sensor, **[Sensor Name] Testing...** appears on the display with the sensor's current state below this message. The tables below indicate which sensors are available for testing.

Available Cover and Door Sensors

Sensor Name	Description
Cover F bridge top	Sensor (bridge unit top cover interlock)
Door G finisher front	Switch (finisher front door interlock)
Surface H finisher eject	Switch (eject cover interlock)

Previous



Next



Go Back

Available Bin Level Sensors

Sensor Name	Description
Fin upper bin full	Sensor (upper media bin full)
Stacker bin level1	Sensor (stacker bin level 1)
Stacker bin level2	Sensor (stacker bin level 2)
Stacker bin upper limit	Sensor (stacker bin upper limit)
Stacker bin no media	Sensor (stacker bin no media)
Stacker bin level encod	Sensor (stacker bin level encoder)

Previous



Next



Go Back

Available Media Path 1 Sensors

Sensor Name	Description
Bridge media entrance	Sensor (bridge media entrance)
Bridge media exit	Sensor (bridge unit exit)
Finisher media enter	Sensor (finisher media enter)
Buffer path	Sensor (buffer path)
Upper media exit	Sensor (upper media exit)
Lower media exit	Sensor (lower media exit)
Compiler media in	Sensor (complier media in)

Available Media Path 2 Sensors

Sensor Name	Description
Diverter gate	Sensor (diverter gate)
Front tamper hp	Sensor (front tamper HP)
Rear tamper hp	Sensor (rear tamper HP)
Eject clamp hp	Sensor (media eject clamp HP)
Media eject shaft hp	Sensor (media eject shaft HP)

Available Punch and Staple Sensors

Sensor Name	Description
Punch side reg1	Sensor (punch unit side reg 1)
Punch side reg2	Sensor (punch unit side reg 2)
Punch box set	Sensor (punch waste box set)
Punch waste full	Sensor (punch waste box full)
Low staple	Sensor (low staple)
Punch carriage shift hp	Sensor (punch carriage shift HP)
Punch unit hp	Sensor (punch unit HP)
Stapler carriage shift hp	Sensor (stapler carriage HP)
Punch cam front	Sensor (punch unit cam front)
Punch hole select	Sensor (punch hole select)

After selecting one of the available sensors, you can manually toggle the sensor between its two values (**Open** or **Closed**). Open appears on the display when the sensor is open, and Closed when the sensor is closed.

Press **Stop**  to exit the test.

BASE SENSOR TEST

This test verifies that the sensors in the base machine are operating properly.

To run the Base Sensor Test:

Touch **BASE SENSOR TEST** from the Diagnostics Menu. The panel displays **BASE SENSOR TEST** in the header row and the following categories of sensors below the header row:

- Cover and Door
- Devices
- Exit Level
- Media Path

After you select a category of sensors, the panel displays the name of the selected category in the header row and each sensor in that category. You must select a specific sensor from this list to view and toggle the sensor's state. After you select a specific sensor, [Sensor Name] Test i ng . . . appears on the display and displays the sensor's name in the header row and the sensor's name and current state appears below the header row.

Cover and Door Sensors

Sensor Name	Description
Door A printer left	Switch (printer left door interlock)
Door B printer left/lower	Switch (left lower door interlock)
Door C 2TM/TTM left	Switch (2TM/TTM left door interlock)
Door D duplex left	Switch (duplex left door interlock)
Door E exit 2 left	Switch (exit 2 left door interlock)
Door J front	Switch (printer front door interlock)
Door K HCF top	Switch (HCF top door interlock)

Device Present Functions

Sensor Name	Description
PC unit present	Indicates the PC cartridge is installed
Exit2 present	Indicates the exit 2 unit assembly is installed

Exit Level Sensors

Sensor Name	Description
Std bin full exit 1	Sensor (std bin full exit 1)
Std bin full exit 2	Sensor (std bin full exit 2)

Previous



Next



Go Back

Media Path Sensors

Sensor Name	Description
Registration	Sensor (registration)
Fuser exit	Sensor (fuser exit)
Exit1 shift hp	Sensor (exit 1 media shift HP)
Exit2	Sensor (exit 2)
Exit2 shift hp	Sensor (exit 2 media shift HP)

Previous




Next



Go Back

To test any of the displayed sensors, you must manipulate the appropriate area of the printer so the sensor's value will toggle.

If the panel inaccurately displays the sensor's status, then the sensor must be malfunctioning.

Press **Stop**  to cancel the test. Base Sensor Test Canceled appears on the display.

DEVICE TESTS

Quick Disk Test

This test performs a non-destructive read/write on one block per track on the disk.

To run the Quick Disk Test:

1. Touch **DEVICE TESTS** from the Diagnostics Menu.
2. Touch **Quick Disk Test**.

Quick Disk Test Testing... appears on the display. This test cannot be canceled. After the test finishes, either Quick Disk Test Passed or Quick Disk Test Failed appears on the display. This message remains until you touch **Back**.

Disk Test/Clean

This test performs a low-level format of the hard disk.

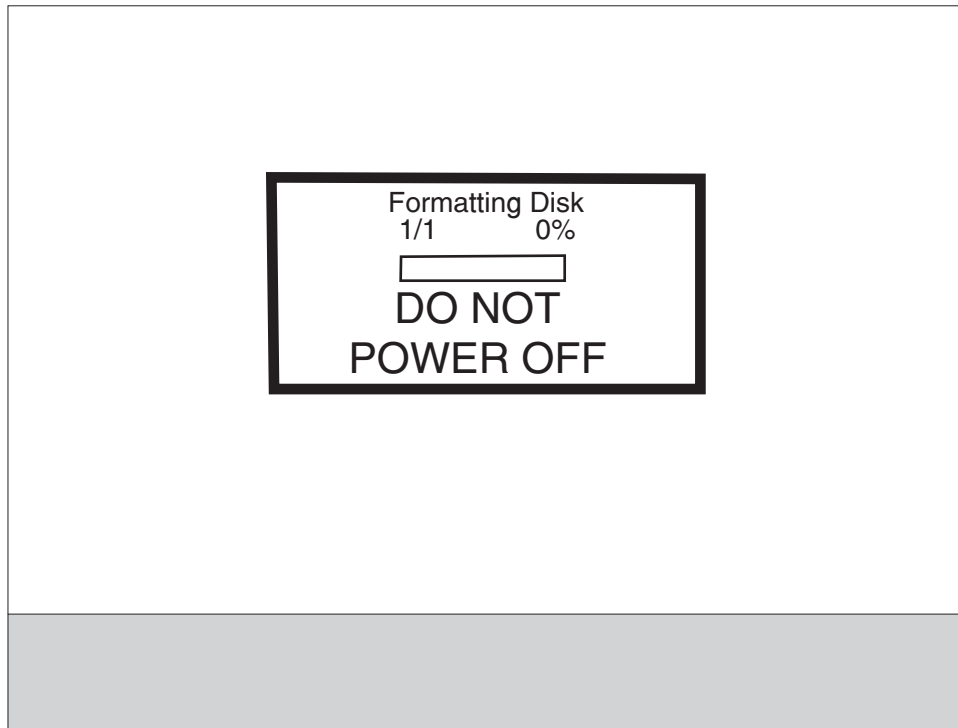
Warning: This test destroys all data on the disk and should never be performed on a good disk. Use this test only when the disk contains bad data and is unusable. When this test completes, the disk automatically initializes with a new file system; therefore it is unnecessary to format the disk.

To run the Disk Test/Clean Test:

1. Touch **DEVICE TESTS** from the Diagnostics Menu.
2. Touch **Disk Test/Clean Test**.

Contents will be lost. Continue? appears on the display. To exit this test and return to DEVICE TESTS, touch **No**. This is your only chance to exit this test; once the test has begun, it cannot be stopped.

While this test runs, the following graphic appears:




Previous



Next



Go Back

This test cannot be interrupted once it has begun. After the test finishes, either Disk Test/Clean Test Passed or Disk Test/Clean Test Failed appears on the display. Press **Stop**  to clear the final message and return to DEVICE TESTS.

PRINTER SETUP

To enter the PRINTER SETUP screen, touch **PRINTER SETUP** from the Diagnostics Menu. The following graphic appears on the display:

The screenshot shows the PRINTER SETUP screen with the following settings and navigation options:

- Defaults:** U.S. (Navigation: Left arrow, Right arrow, Up arrow)
- Printed Page Count:** 24
- Perm Page Count:** 0
- Serial Number:** NV26T470
- Envelope Entrance:** Medium (Navigation: Left arrow, Right arrow)
- Engine Setting 1:** 0 (Navigation: Left arrow, Right arrow, Down arrow)

At the bottom of the screen, there are four buttons: a question mark icon, a **Submit** button, a **Back** button, and a greyed-out button.

Previous



Next



Go Back

Defaults

The value of this setting determines whether the printer uses the US or Non-US factory default value for the printer settings listed below:

Printer Setting	US Value	Non-US Value
Paper Sizes (applies only to input sources which do not have hardware size sensing capability)	Letter	A4
Envelope Size (applies only to envelope feeding sources which do not have hardware size sensing capability)	10 Envelope	DL Envelope
PCL Symbol Set	PC-8	PC-850
PPDS Code Page	437	850
Universal Units of Measure	Inches	Millimeters

Touch **Submit** to change the value of this setting, then the display returns to the Diagnostics menu. To return to the PRINTER SETUP menu without changing the value of this setting, touch **Back**.

Printed Page Count

The value of this setting enables you to gauge the amount of usage on a device.

The Printed Page Count cannot be reset by the servicer.

Permanent Page Count

The value of this setting indicates the total number of pages that have been printed by the printer.

The Permanent Page Count cannot be reset.

Serial Number

This printer setting records the printer's serial number that was assigned by the manufacturer. When you select this setting, a replica of a keyboard appears on the display that enables you to edit the serial number.

Engine Setting 1 to 16

These settings are used by Engine code ECs to fix field problems.

Warning: Do not change these settings unless requested to do so by your next level of support.

Model Name

The model name can only be viewed and cannot be changed.

Configuration ID

The two configuration IDs are used to communicate information about certain areas of the printer that cannot be determined using hardware sensors. The configuration IDs are originally set at the manufacturer, however you may need to reset Configuration ID 1 or Configuration ID 2 when you replace the printer engine card assembly. This printer uses two Configuration IDs, each of which consists of eight digits. The first seven digits in each ID are hexadecimal numbers while the last digit is a checksum of the preceding seven hexadecimal digits. Each ID can contain a combination of the digits 0 through 9 and the characters A to F.

If the printer's firmware detects that either of the printer's Configuration IDs has not been defined or is invalid, then the following occurs:

1. The firmware automatically uses the Configuration IDs defined for the printer's standard model.
2. The Configuration ID setting is the only item that appears when you open the Diagnostics menu.
3. When the printer is not in Diagnostics mode, Check Config ID appears on the display.

Note: Each of the above conditions will remain until a valid value is entered for Configuration ID 1 and Configuration ID 2.

Previous



Next



Go Back

The Configuration ID setting allows you to set both Configuration IDs simultaneously. To set one or both Configuration IDs:

1. From the PRINTER SETUP menu, touch the icon to the right of the Configuration ID menu item. The screen displays the value of both Configuration IDs. By default, the cursor appears on the Configuration ID 1 line.

2. To change the value of Configuration ID 1, touch the **Backspace** key to erase any of the existing characters. Then enter the correct ID using the number and letter keys that appear on the screen.
3. To edit the value of configuration ID 2, touch a section of the display screen that appears inside of the text box containing the current value of Configuration ID 2. The cursor appears in the text box containing the current value of Configuration ID 2.
4. To change the value of Configuration ID 2, touch the **Backspace** key to erase any of the existing characters. Then enter the correct ID using the number and letter keys that appear on the screen.

Note: To exit the Configuration ID screen and return to the PRINTER SETUP menu, touch **Back**.

Note: Although it is recommended that all unused and reserved bits be set to zero, the code will not validate or enforce this condition.

5. To save the values of both Configuration IDs, touch **Submit**. The printer validates both IDs. If either ID is invalid, the printer posts `Invalid ID`, discards any changes, and displays the original Configuration IDs. If both IDs are valid, the printer automatically returns to the PRINTER SETUP menu.

Edge to Edge

When this setting is On, the text and graphics are shifted to the physical edges of the paper for all margins. When this setting is Off, the normal margins are restored.

Enable Edge to Edge Copy

This is the end of the PRINTER SETUP.

Previous



Next



Go Back

REPORTS

The Reports prints the Menu Setting Page.

EVENT LOG

The exact number of events recorded in the Event Log will vary since each event requires a different amount of storage space. When the Event Log requires more space to record an event, it overwrites the oldest currently logged event(s) and inserts the new event into the first log position. Consecutive log entries may be identical if the same event occurred twice in a row.

The Event Log records the following types of events:

- All 9xx Service Errors
- 2xx Paper Jams
- Maintenance Count Resets
- NV Resets
- JFFS2 Partition Format (Security Files)
- JFFS2 Partition Format (BookmarkMgrData)

Touch **EVENT LOG** from the Diagnostics Menu, and the following options are displayed:

Display Log
Print Log
Clear Log

Display the Event Log

Note: The displayed version of the Event Log shows only a subset of the information contained in the Diagnostics version of the printed Event Log. For the most comprehensive information about each logged event, print the Event Log. See **“Print the Event Log” on page 3-24.**

Touch **Display Log**, and a graphic similar to the following appears on the display:



Each logged event is identified by the text that appeared when the event occurred. For instance, if the log recorded a 900 Service Error, the Display Log would show 900 Service RIP Software. Log entries appear in chronological order.

Previous



Next



Go Back

If additional log entries exist, touch ▼ to view the next log entries. Continue following this procedure until you reach the end of the logged entries. To view earlier log entries, touch ▲.

Touch **Back** to return to the EVENT LOG.

Previous



Next



Go Back

Print the Event Log

Each page of the printed Event Log report has the title Event Log at the top of each page followed by the model name and serial number. The following is a sample of a printed Event Log:

Model and Serial number

Printer information

Panel display when error occurred

Page count

Earliest error code

Next error code

```

Event Log (Page 1)
Luxmark X854c (s/n:XXX-XXXX)
Device Information
Page Count      2526
Installed Memory 256 MB
Processor Speed  420MHz
Firmware        11.41.P053.0
Language        E80.AP.E015.0
Kernel          LS.MA.P053.0
Network         M80.AP.M014.0
Network Error   0
Panel          0
Toner         0L36-0-10
Toner         0L36-0
Font          0.11M01-04.4
Bin 1         04-08-0
Bin 2         04-08-0

Event Log Information
990.01 Service Fin Stapling
Panel Message  990.01 Service Fin Stapling
Page Count    2527
PDE Count     273
Date and Time Thu Jan 01 00:00:40
Up Time       40 secs 197 msec

Code Levels
Time:1:00:04
0: LoadP.LS.MA.P053          Tue Apr 12 10:21:30 2005 mta-b4d
1: Kernel.E80.AP.E015       Tue Apr 12 10:20:44 2005 mta-b4d
3: Base.LS.MA.P053          Tue Apr 12 10:21:26 2005 mta-b4d
4: Network.M80.AP.M014      Thu Mar 17 00:41:28 2005 mta-b4d
4: Network.Brkr.LS.MA.P053  Tue Apr 12 10:20:44 2005 mta-b4d
23: Security.Files-1.0      Tue Apr 12 10:21:31 2005 mta-b4d
24: Security.Firmware-1.0   Tue Apr 12 10:21:31 2005 mta-b4d
25: MFP.WP-1.0              Tue Apr 12 10:21:31 2005 mta-b4d
27: Driver.WP-1.0          Tue Apr 12 10:21:31 2005 mta-b4d
30: History-1.0             Tue Apr 12 10:21:31 2005 mta-b4d
31: Network.WP-1.0         Thu Mar 17 00:41:17 2005 mta-b4d
Engine:11.41-0

Debug Data
990.01 Service Fin Stapling
Panel Message  990.01 Service Fin Stapling
Page Count    1927
PDE Count     265
Date and Time Thu Jan 01 00:00:35 1970
Up Time       35 secs 323 msec

Code Levels
Time:1:00:04
0: LoadP.LS.MA.P053          Tue Apr 12 10:21:30 2005 mta-b4d
1: Kernel.E80.AP.E015       Tue Apr 12 10:20:44 2005 mta-b4d
3: Base.LS.MA.P053          Tue Apr 12 10:21:26 2005 mta-b4d
4: Network.M80.AP.M014      Thu Mar 17 00:41:28 2005 mta-b4d
4: Network.Brkr.LS.MA.P053  Tue Apr 12 10:20:44 2005 mta-b4d
23: Security.Files-1.0      Tue Apr 12 10:21:31 2005 mta-b4d
24: Security.Firmware-1.0   Tue Apr 12 10:21:31 2005 mta-b4d
25: MFP.WP-1.0              Tue Apr 12 10:21:31 2005 mta-b4d
27: Driver.WP-1.0          Tue Apr 12 10:21:31 2005 mta-b4d
30: History-1.0             Tue Apr 12 10:21:31 2005 mta-b4d
31: Network.WP-1.0         Thu Mar 17 00:41:17 2005 mta-b4d
Engine:11.41-0
                    
```

As the Event Log report prints, Printing EVENT LOG appears on the display.

Clear the Event Log

To clear the Event Log:

1. Touch **Event Log** from the Diagnostics Menu.
2. Touch **Clear Log**.

Yes and **No** appears on the menu. If you touch **Yes**, Deleting EVENT LOG appears on the display and erases all Event Log information, including information from the printed report. Touch **No** to cancel deletion and return to the EVENT LOG menu, or touch **Back** to exit Clear Log and return to the EVENT LOG menu.




SCANNER TESTS

ASIC Test

This operation performs a diagnostic test on the scanner ASIC that cycles through all of the scanner ASIC's memory.

To perform the ASIC Test:

1. Touch **SCANNER TESTS** from the Diagnostics Menu.
2. Touch **ASIC Test**.

During this test, ASIC Test Runni ng. . . appears on the display. At the completion of this test, ASIC Test Passed or ASIC Test Fai l ed appears on the display. To clear the message, press **Stop** .

Feed Test

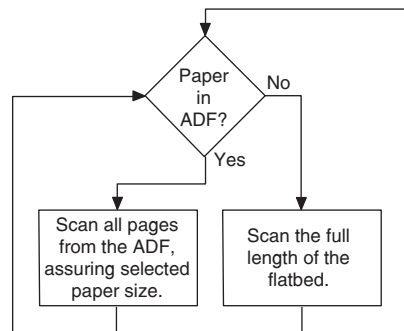
This test continuously executes flatbed and/or ADF scans but does not produce any printed output.

To perform the Feed Test:

1. Touch **SCANNER TESTS** from the Diagnostics Menu.
2. Touch **Feed Test**.


You are prompted to select a paper size for the ADF. For flatbed scans, the full length of the flatbed is traversed.

The device decides whether to run the flatbed or the ADF according to the following flowchart:



During the test, Runni ng. . . Fl atbed: xxxxx ADF: xxxxx appears on the display. The Flatbed number increases each time the scanner performs a flatbed scan, and the ADF number increases each time the scanner performs an ADF scan.

Press **Stop**  to end this test.

If an error occurs (such as a scanner jam), Feed Test Fai l ed Fl atbed: xxxxx ADF: xxxxx appears on the display. To clear the message, press **Stop** .

Previous



Next



Go Back

Scanner Manual Registration

Note: All scanner and ADF manual registration alignment verifications must be done in standard user mode, not in configuration or diagnostic mode.

Note: You should verify the printer registration alignment before conducting the manual scanner registration process. For information on the printer registration process, see **“REGISTRATION” on page 3-36**.

You can adjust the device's scanner and ADF registration through a manual process. Perform this operation when any of the following events occur:

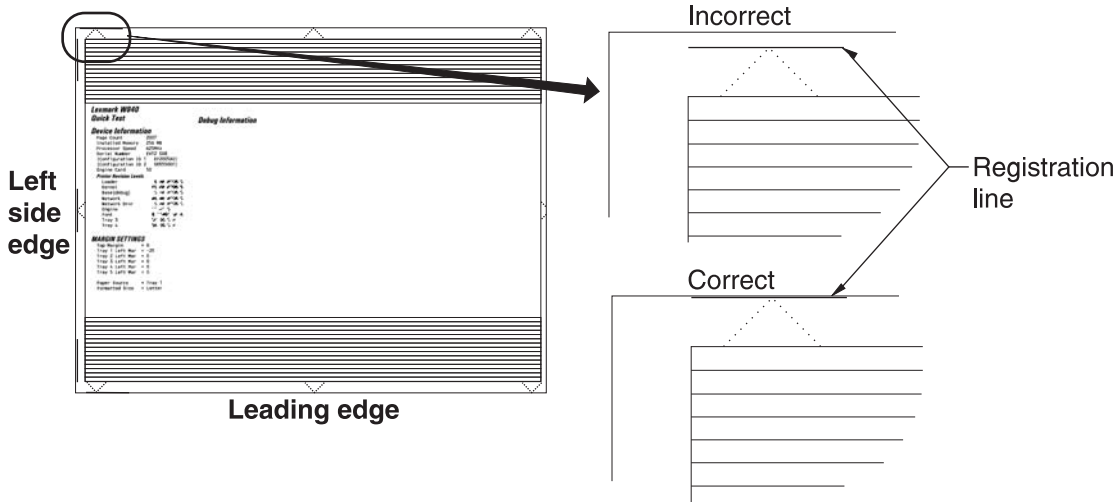
- The scanner controller card has been replaced. (Refer to the settings label on the rear of the machine.)
- The flatbed scanner unit assembly has been replaced.
- The ADF unit assembly has been replaced.
- The CCD card/lens assembly has been replaced.
- Symptoms indicate that the scanner is not properly aligned.

Printing the registration test original page

Perform this process to acquire the registration test original page. This is the page required to align the registration for the flatbed scanner and ADF side 1 and ADF side 2.

1. Ensure the printer media tray registration in all trays is set correctly.
2. Enter configuration menu. Go to **“Configuration Menu” on page 3-33**.
3. Touch **REGISTRATION**.
4. Touch **Quick Test**. At this time the registration test original page will be printed.

The registration test original page should appear as shown in graphic below:



Testing the manual scanner registration

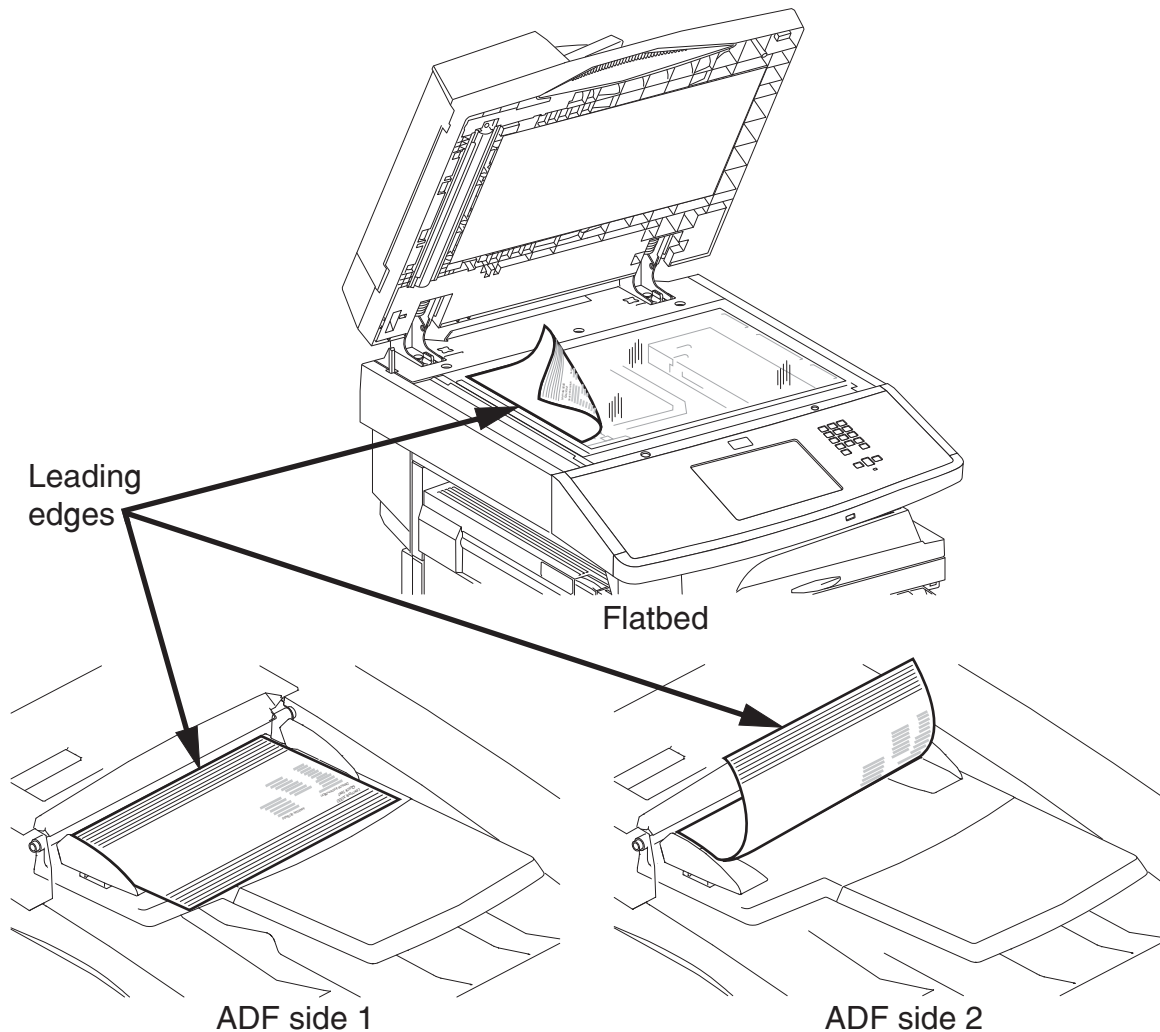
Note: Machine must be in Standard User Mode.

To properly position the registration test original page on the flatbed scanner and the ADF side 1 and ADF side 2, follow the graphic below:

Warning: Ensure that the registration test original page is properly positioned according to the diagrams or registration and margins cannot be properly adjusted.

1. Place the registration test original page on the flatbed scanner according to the graphic below.
2. Make a copy of the registration test original page, and mark it "Flatbed."
3. Place the registration test original page, image side up, in the ADF according to the diagram below. This will be the ADF side 1 registration test.
4. Make a copy of the registration test original page, and mark it "ADF side 1."
5. Place the registration test original page, image side down, in the ADF according to the diagram below. This will be the ADF side 2 registration test.
6. Select "2 sided to 2 sided" while in copy mode to ensure that the rear side of the test original is copied.
7. Make a copy of the registration test original page, and mark it "ADF side 2."

Note: You should now have three test copies of the registration test original page.



Previous



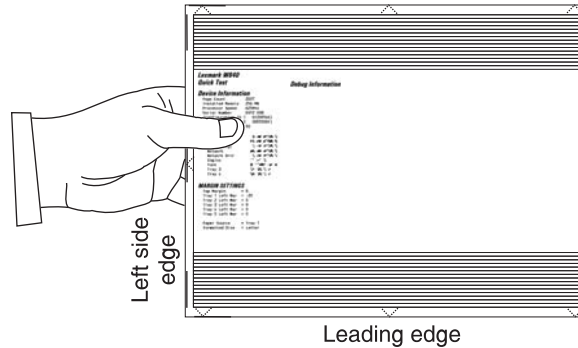
Next



Go Back

Analyzing the manual scanner registration copies

1. To analyze the manual scanner registration of the flatbed, ADF side 1, and ADF side 2, hold the test copy according to the diagram below.



2. Compare the three copies to the registration test original page for image placement. Ideally, the image should be centered on the page by measuring the paper edge arrows or the black lines with a ruler.
3. If the leading and side margin edges are out of adjustment, then proceed to manually adjust the scanner and/or ADF side 1 and ADF side 2 registration.

Note: Margin tolerance is +/- 2 mm.

Manually adjusting the scanner's registration

1. Enter Diagnostics Menu. Go to **“Diagnostics Menu” on page 3-1.**
2. Touch **SCANNER TESTS.**
3. Touch **Scanner Manual Registration.**
Note: Refer to analyzing the manual scanner registration copies. See **“Analyzing the manual scanner registration copies” on page 3-28.**
4. Make required adjustments, and touch **Submit.**
Note: All reference to Side Registration in the graphic below, refers to the left side edge.



5. Turn the machine off, and then back on in order to make a copy.



6. Using the registration test original page, make a copy using the flatbed scanner and the ADF side 1 and ADF side 2 to verify adjustments for accuracy.
7. If further adjustments are required, re-enter Diagnostic Menu and repeat items 2 through 6 as needed.

The panel displays the following settings:

Margin Setting	Range ¹	Units
Flatbed Side Registration ²	0 - 240	1/300 inch
Flatbed Lead Registration ³	16 - 184	1/300 inch
ADF Side1 Side Registration ⁴	0 - 240	1/300 inch
ADF Side1 Lead Registration ⁵	0 - 214	1/300 inch
ADF Side2 Side Registration ⁴	0 - 240	1/300 inch
ADF Side2 Lead Registration ⁵	0 - 214	1/300 inch

¹Each increment of adjustment corresponds to:

- 1 scan at 300 dpi for the Lead Margin setting or
- 1 pel at 300 dpi for each Side Margin setting

²Decreasing the registration value moves the text toward the left side edge of the page; increasing the registration value moves the text away from the left side edge of the page. The entire image moves left or right on the page; therefore, no compression or expansion of the image occurs to preserve the left side margin.

Previous



Next



Go Back

³Decreasing the registration value moves the text toward the lead edge of the page and narrows the lead margin; increasing the registration value moves the text away from the lead edge of the page and widens the lead margin. The entire image moves up or down on the page; therefore, no compression or expansion of the image occurs to preserve the lead margin.

⁴Decreasing the registration value moves the text away from the left side edge of the page; increasing the registration value moves the text toward the left side edge of the page. The entire image moves left or right on the page; therefore, no compression or expansion of the image occurs to preserve the left side margin.

⁵Decreasing the registration value moves text away from the lead edge of the page and widens the lead margin; increasing the registration value moves the text toward the lead edge of the page and narrows the lead margin. The entire image moves up or down on the page; therefore, no compression or expansion of the image occurs to preserve the lead margin.

Touch **Submit** to save the changes. Submitting Changes... appears on the display.

Touch **Back** to return to the Scanner Manual Registration screen without saving changes.

Scanner manual registration factory defaults

The factory scanner manual registration default settings are located on a label at the rear of the machine. Use the label values to reset the factory default settings when the current settings appear to be extremely out of range.

An example of this label is shown below.

Note: The values listed below should be consider examples. They may not match the label attached to the rear of the machine.

Chain-Function	Values
715-050	89
715-053	127
711-140	183
711-141	193
715-110	124
715-111	127

Use the following diagram to cross reference the chain-function on the label to the text on the touch screen found in diagnostic mode when resetting the scanner manual registration factory default values.

Chain-Function	Values	Touch screen description
715-050	89	Flatbed lead registration
715-053	127	Flatbed side registration
711-140	183	ADF side 1 lead registration
711-141	193	ADF side 2 lead registration
715-110	124	ADF side 1 side registration
715-111	127	ADF side 2 side registration




Sensor Test (Scanner Tests)

To perform the Sensor Test:

1. Touch **SCANNER TESTS** from the Diagnostics Menu.
2. Touch **Sensor Test**.

The following example appears on the display:

Platen length APS 1
Platen length APS 2
ADF left cover interlock
ADF pre registration
ADF registration
Sheet through
ADF inverter
Tray media width 1
Tray media width 2
Tray media width 3
ADF width APS 1
ADF width APS 2
ADF width APS 3
Tray media length 1
Tray media length 2
Pick roll position HP
Document set
ADF angle
Scanner HP
Platen interlock

Press **Stop**  to return to the SCANNER TESTS.

Previous



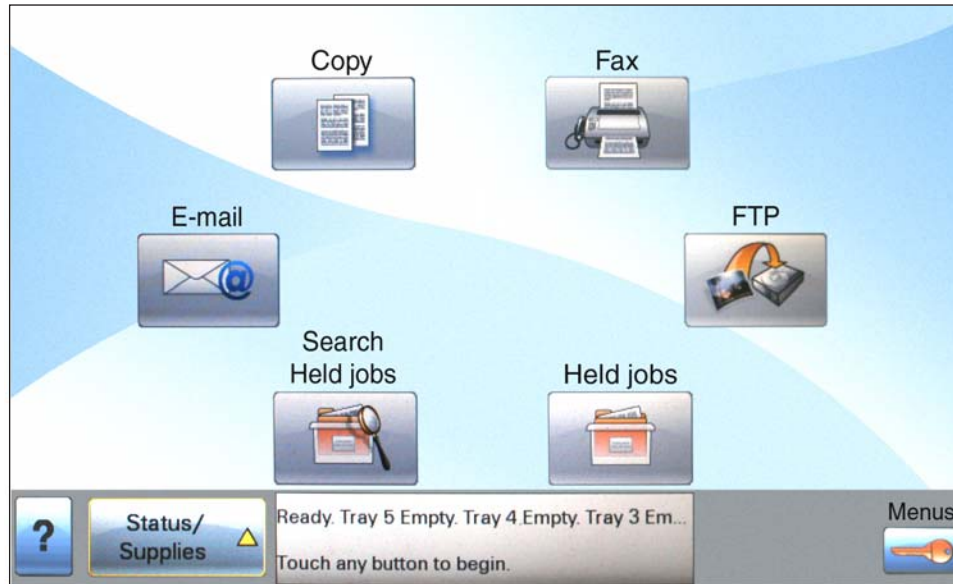
Next



Go Back

Exiting Diagnostics Menu

From the Diagnostics Menu, touch **Back** until a graphic appears with **Exit Diag Menu** in the lower right corner. Touch **Exit Diag Menu** to perform a POR, and the following graphic appears on the display:



Previous



Next



Go Back

Configuration Menu

Entering Configuration Menu

1. Turn off the printer.
2. Press and hold the **2** and **6** buttons simultaneously.
3. Turn on the printer.
4. Release the buttons after 10 seconds.

Available menus

Maintenance Count Value	See “Maintenance Counter Value” on page 3-35.
Reset Maintenance Counter	See “Reset Maintenance Counter” on page 3-35.
REGISTRATION	See “REGISTRATION” on page 3-36.
Top Margin	
Tray 1 Left Margin	
Tray 2 Left Margin	
Tray 3 Left Margin (if installed)	
Tray 4 Left Margin (if installed)	
Tray 5 Left Margin (if installed)	
Quick Test	See “Quick Test” on page 3-37.
Print Quality Pages	See “Print Quality Pages (Configuration Menu)” on page 3-38.
SIZE SENSING	See “SIZE SENSING” on page 3-39.
Tray 1 Sensing	
Tray 2 Sensing	
Tray 3 Sensing (if installed)	
Tray 4 Sensing (if installed)	
Tray 5 Sensing (if installed)	
Statement/A5	See “A5/Statement” on page 3-40.
Executive/B5	See “B5/Executive” on page 3-40.
Panel Menus	See “Panel Menus” on page 3-40.
PPDS Emulation	See “PPDS Emulation” on page 3-40.
Factory Defaults	See “Energy Conserve” on page 3-41.
Energy Conserve	See “Energy Conserve” on page 3-41.
Min Copy Memory	See “Min Copy Memory” on page 3-41.
Format Fax Storage	See “Format Fax Storage” on page 3-42.
EVENT LOG	See “EVENT LOG (Configuration Menu)” on page 3-42.
ADF Edge Erase	See “ADF Edge Erase” on page 3-42.
FB Edge Erase	See “FB Edge Erase” on page 3-42.
Paper Prompts	See “Paper Prompts” on page 3-44.
Envelope Prompts	See “Envelope Prompts” on page 3-44.
Jobs On Disk	See “Jobs On Disk” on page 3-44.
Disk Encryption	See “Disk Encryption” on page 3-44.

Previous



Next



Go Back

Wipe Disk	See “Exiting Configuration Menu” on page 3-52.
Font Sharpening	See “Font Sharpening” on page 3-49.
Require Standby	See “Require Standby” on page 3-50.
Short edge Printing	See “Short Edge Printing” on page 3-50.
Tray Low Message	See “Tray Low Message” on page 3-50.
LES Application	See “LES Applications” on page 3-50.
Key Repeat Initial Delay	See “Key Repeat Initial Delay” on page 3-51.
Key Repeat Rate	See “Key Repeat Rate” on page 3-51.
Booklet Adjustments	See “Booklet Adjustments” on page 3-51.
Exiting Configuration Menu	See “Exiting Configuration Menu” on page 3-52.

Previous



Next



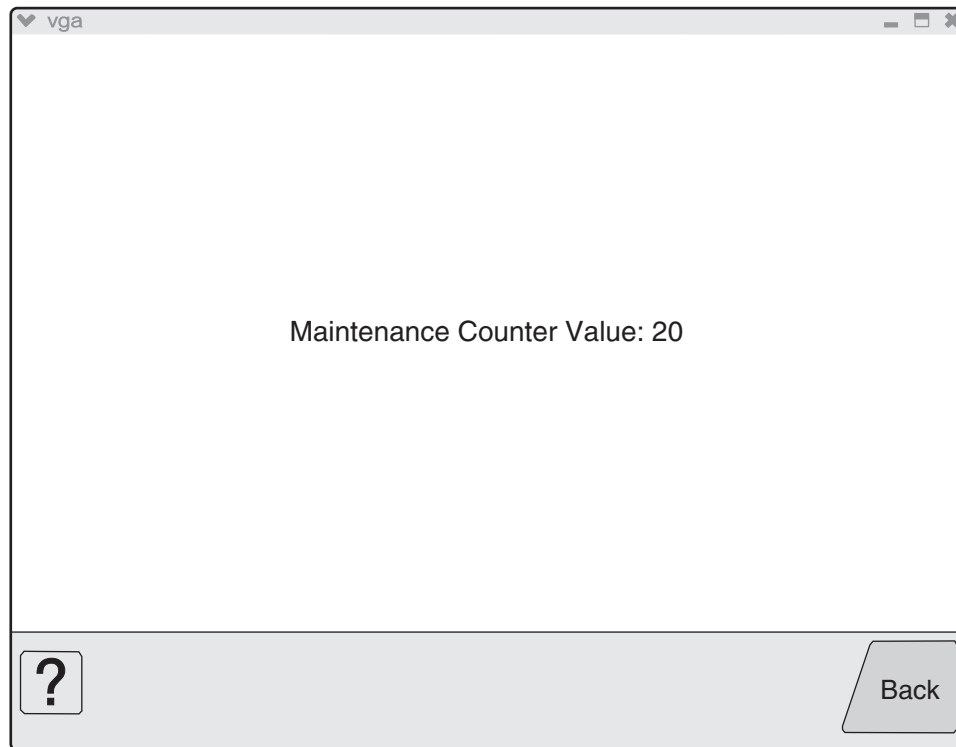
Go Back

Maintenance Counter Value

The Maintenance Page Count is used to track general printer usage. A print job containing a single printed side will increment the Maintenance Count by one while a print job containing two printed sides (a duplex print job) will increment it by two. Whenever this count reaches 300,000, the printer posts an intervention and a status indicator, **80 scheduled maintenance**, that notifies the user that scheduled maintenance is recommended.

To view the Maintenance Counter Value, touch **Maintenance Counter Value** from the Configuration Menu.

The panel displays the current value of the maintenance counter as illustrated below:



Touch **Back** to return to the Configuration Menu.

After installing the required maintenance kit, reset this count to zero.

Reset Maintenance Counter

After scheduled maintenance, reset the Maintenance Counter.

To reset the maintenance page counter to zero:

1. Touch **Reset Maintenance Counter** from the Configuration Menu.
2. **Reset Maintenance Counter** appears in the header, and **Yes** and **No** appears in a menu below the header.
3. To cancel the reset operation, touch **Back** or **No**. All other button presses are ignored.
4. To initiate the reset operation, touch **Yes**.

Previous



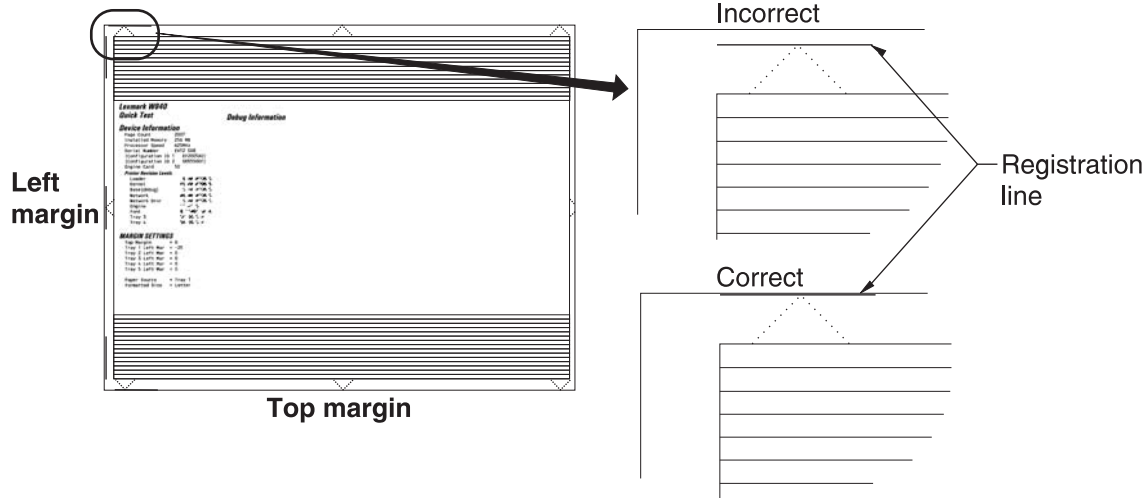
Next



Go Back

REGISTRATION

Print registration makes sure the printing is properly aligned on the page. This setting allows separate Left Margin settings for each media tray. (The Top Margin setting is the same for all trays.)



The Registration menu item enables you to:

- Establish the Top Margin setting for all installed paper trays.
- Establish a unique Left Margin setting for each installed paper tray.

By adjusting the Top Margin setting, you move the top margin of all installed paper trays either up or down the page. By adjusting the Left Margin setting of a specific paper tray, you move that tray's left margin either to the right or to the left.

Enter Configuration Menu. See **“Entering Configuration Menu” on page 3-33.**

Touch **REGISTRATION** from the Configuration Menu. The current margin settings appear on the display.

Previous



Next



Go Back

Perform a Quick Test. See **“Quick Test” on page 3-10.**

Previous



Next



Go Back

Margin Setting	Range ¹	Units
Top Margin ²	0—50	1/300 inch
Tray 1 Left Margin ³	-50—50	1/300 inch
Tray 2 Left Margin	-50—50	1/300 inch
Tray 3 Left Margin	-50—50	1/300 inch
Tray 4 Left Margin	-50—50	1/300 inch
Tray 5 Left Margin	-50—50	1/300 inch
Quick Test	This cannot be adjusted, but is an option in the Registration Menu. It also happens when one of the Margins above is adjusted.	


¹Each increment of adjustment corresponds to:

- 1 scan at 300 dpi for the Top Margin setting or
- 1 pel at 300 dpi for each Left Margin setting

²Increasing the registration value moves text up the page and widens the top margin; decreasing the registration value moves text down the page and narrows the top margin. The entire image moves up or down the page; therefore, no compression or expansion of the image occurs to preserve the bottom margin.

³Increasing the registration value moves the margin to the left; decreasing the registration value moves the margin to the right. The entire image moves left or right on the page; therefore, no compression or expansion of the image occurs to preserve the right margin.

To change the value of any of the margin settings:

1. Touch  to the right of the appropriate margin setting. The panel displays the setting's name in the header and ◀ [setting's current value] ▶ in a menu below the header row.
2. Touch ◀ to decrease the value and ▶ to increase the value.
3. Touch **Back** to cancel and return to the Configuration Menu.
4. Touch **Submit** to save the change, at this time an alignment page will print.

The device prints a Quick Test page from the appropriate paper tray. While the Quick Test page prints, Printing Alignment Page appears on the display.

Quick Test

The Quick Test verifies that the Registration margin values of the device's default input source are set appropriately.

To print the Quick Test page:

1. Touch **REGISTRATION** from the Configuration Menu.
2. Touch **Quick Test**.
3. Touch **Back** to return to REGISTRATION.
4. Touch **Back** again to return to the Configuration Menu.

The printed Quick Test page consists of:

- Alignment diamonds
- Horizontal lines used for skew adjustment
- General printer information to include current page count and installed memory
- The printer's serial number, code levels, and print registration settings

The printer always uses media from its default input source to print this test, except when the default source supports only envelopes. In this case, the printer automatically uses media from Tray 1. To generate the most accurate and useful registration information, print the Quick Test on letter- or A4-size paper.

If the default input source is empty, the printer stops printing and Load [Input Source] with [Paper Type] [Paper Size] IR appears on the display.

While the Quick Test prints, Quick Test Printing... appears on the display. No buttons are active while the Quick Test page is printing. When printing finishes, the panel returns to REGISTRATION.

Print Quality Pages (Configuration Menu)

This entry enables you to print a report that contains a limited set of the information that appears in the Diagnostics version of the Print Quality Pages report. The limited (Configuration) and the full (Diagnostics) printed versions of this report display the same panel messages when they print and follow the same layout guidelines.

To print the Print Quality Pages:

1. Touch **Print Quality Pages** from the Configuration Menu. Printing Quality Test Pages... appears on the display.
2. Touch **Back** to return to the Configuration Menu.

Note: When this report is printed from the Configuration Menu, the device enforces the toner cartridge lockout mechanism, that is, the Machine Class ID of its cartridge must match the Machine Class ID stored in the printer's NVRAM.

Previous



Next



Go Back

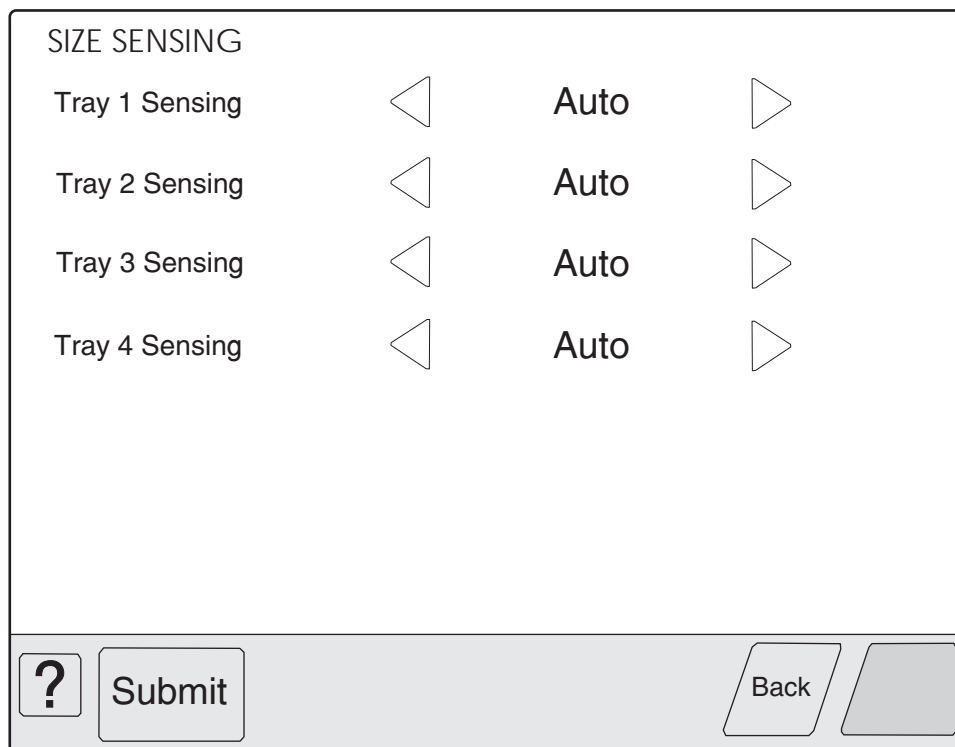
SIZE SENSING

This setting controls whether the printer automatically registers the size of paper installed in an input source equipped with size sensing hardware.

Input source	Size sensing	
	Length	Width
Multipurpose feeder (integrated MPF)		✓
Tray 1 (integrated 500-sheet drawer)	✓	✓
Tray 2 (integrated 500-sheet drawer)	✓	✓
Tray 3 (integrated TTM 850-sheet drawer)		✓
Tray 4 (integrated TTM 1150-sheet drawer)		✓
Tray 3 (optional 2TM 500-sheet drawer)	✓	✓
Tray 4 (optional 2TM 500-sheet drawer)	✓	✓
Tray 5 (optional HCF 2000-sheet drawer)		✓

To change the value of this setting:

1. Touch **SIZE SENSING** from the Configuration Menu. The screen displays each size sensing equipped input source and its current Size Sensing value.



2. Touch ◀ or ▶ to scroll through the setting's other possible values.
3. Touch **Back** to cancel and return to the Configuration Menu.
4. Touch **Submit** to save the change.

By turning this setting to **Auto**, every input option equipped with size sensing hardware automatically registers what size paper it contains. When this setting is turned **Off**, the printer ignores the size detected by the hardware and treats the input source as a non-sensing source. The media size can be set by the operator panel or the data stream.

Previous



Next



Go Back

A5/Statement

Due to engine limitations, Trays 1 through 4 cannot simultaneously sense A5- and statement-size paper. The value of this setting determines which of the two paper sizes these trays will sense automatically. This setting will apply to all automatic trays, but not to the MP Feeder. The MP Feeder can support these paper sizes regardless of the value of this setting.

B5/Executive

Due to engine limitations, Trays 1 through 4 in cannot simultaneously sense executive and JIS-B5-size paper. The value of this setting determines which of the two paper sizes these trays will sense automatically. This setting will apply to all automatic trays, but not to the MP Feeder. The MP Feeder can support these paper sizes regardless of the value of this setting.

Panel Menus

Selections are to Disable or Enable (default) operator panel menus.

To change the value of this setting:

1. Touch **Panel Menus** from the Configuration Menu. ◀ **[setting's current value]** ▶ appears on the display.
2. Touch ◀ or ▶ to scroll through the setting's other possible values.
3. Touch **Back** to cancel and return to the Configuration Menu.
4. Touch **Submit** to save the change.

PPDS Emulation

The value of the PPDS Emulation menu item determines if a device can recognize and use the PPDS datastream. The current value of this setting appears in parentheses to the right of the setting on the Configuration Menu screen.

The following table indicates how the value of this setting affects the user default value for the Smartswitch and Printer Language settings:

Value of PPDS Emulation setting	Resulting value of Smartswitch setting (all ports)	Resulting value for Printer Language settings
Activate	Off	PPDS Emulation Note: You can still switch languages on the operator panel or through the P.J.L ENTER LANGUAGE command.
Deactivate	On	Printer's factory default value

To change the value of this setting:

1. Touch **PPDS Emulation** from the Configuration Menu. ◀ **[setting's current value]** ▶ appears on the touch screen.
2. Touch ◀ or ▶ to scroll through the setting's possible values.
3. Touch **Back** to cancel and return to the Configuration Menu.
4. Touch **Submit** to save the change.

Previous



Next



Go Back

Factory Defaults

Warning: This operation cannot be undone.

This setting enables you to restore all of the printer's settings to the base printer settings, the network settings, or to remove all Lexmark Embedded Solutions applications (LES).

To restore the Factory Default settings:

1. Touch **Factory Defaults** from the Configuration Menu.
2. Touch **Restore Base** to restore all non-critical base printer NVRAM settings.
3. Touch **Restore Network** to restore all network NVRAM settings.

When you select either value, Restoring Factory Defaults appears on the display and then Resetting the Device. The device immediately performs a POR and restores the appropriate settings to their factory default values.

The following settings are not changed:

- Display Language (general settings)
- Network/Ports Menu
- Standard USB, USB (x) Menus (if an ENA is installed)

Energy Conserve

This menu controls what values appear on the Power Saver menu. If **Off** is selected in the Energy Conserve menu, then Disabled appears in the Power Saver menu, and Power Saver can be turned off. If **On** is set in the Energy Conserve menu, the Power Saver feature cannot be disabled.

To change this setting:

1. Touch **Energy Conserve** from the Configuration Menu. ◀ [setting's current value] ▶ appears on the touch screen.
2. Touch ◀ or ▶ to scroll through the setting's possible values.
3. Touch **Back** to cancel and return to the Configuration Menu.
4. Touch **Submit** to save the change.

Min Copy Memory

Values will only be displayed if the amount of installed DRAM is at least twice the amount of the value, that is, at least 200 MB of installed DRAM is required to display the 100 MB selection.

To change this setting:

1. Touch **Min Copy Memory** from the Configuration Menu. ◀ [setting's current value] ▶ appears on the touch screen.
2. Touch ◀ to decrease the setting's value; touch ▶ to increase the setting's value.
3. Touch **Back** to cancel and return to the Configuration Menu.
4. Touch **Submit** to save the change.

Previous



Next



Go Back

Format Fax Storage

This setting enables you to format the non-volatile storage used for storing faxes.

To change this setting:

1. Touch **Format Fax Storage** from the Configuration Menu.

Note: If an advanced password has been established, you must enter this password in order to change the setting. If no advanced password exists, you can establish one by using the keyboard that appears on the display.

2. Touch **Submit** to save the change.
3. Touch **Back** to cancel and return to the Configuration Menu.

Formatting Fax Flash DO NOT POWER OFF appears on the display while the format operation is active.

EVENT LOG (Configuration Menu)

This entry enables you to print a report that contains a limited set of the information that appears in the Diagnostics version of the Event Log report. See **“EVENT LOG” on page 3-22**. The limited (Configuration) and the full (Diagnostics) printed versions of this report display the same panel messages when they print and follow the same layout guidelines.

To print the Event Log:

1. Touch **EVENT LOG** from the Configuration Menu.
2. Touch **Print Log**.

Touch **Back** to return to the Configuration Menu.

Note: An event log printed from the Configuration Menu will not contain debug information or secondary codes for 900 service errors. However, the event log printed from the Diagnostics Menu does include this information.

ADF Edge Erase

The ADF Edge Erase and FB Edge Erase settings specify, in millimeters, the size of a border around the scanned image that will be erased. For copies, the printed page will have a 2 mm no-print border. The larger of the 2 mm no-print border and the Edge Erase setting will be used in this situation.

To change this setting:

1. Touch **ADF Edge Erase** from the Configuration Menu. ◀ [setting's current value] ▶ appears on the touch screen.
2. Touch ▶ to increase the value or ◀ to decrease the value.
3. Touch **Submit** to save the change.
4. Touch **Back** to cancel and return to the Configuration Menu.

FB Edge Erase

The ADF Edge Erase and FB Edge Erase settings specify, in millimeters, the size of a border around the scanned image that will be erased. For copies, the printed page will have a 2 mm no-print border. The larger of the 2 mm no-print border and the Edge Erase setting will be used in this situation.

To change this setting:

1. Touch **FB Edge Erase** from the Configuration Menu. ◀ [setting's current value] ▶ appears on the touch screen.
2. Touch ▶ to increase the value or ◀ to decrease the value.
3. Touch **Submit** to save the change.

Previous



Next



Go Back

4. Touch **Back** to cancel and return to the Configuration Menu.

Previous



Next



Go Back

Paper Prompts

When a tray is out of the indicated paper size, a prompt is sent to the user to load paper in a tray. This setting controls the tray the user is directed to fill. Selections are Auto (default), MP Feeder, and Manual Paper.

To change this setting:

1. Touch **Paper Prompts** from the Configuration Menu. ◀ **[setting's current value]** ▶ appears on the touch screen.
2. Touch ◀ or ▶ to scroll through the setting's other possible values.
3. To exit this screen without changing the setting's value, touch **Back**.
4. To save the setting's new value, touch **Submit**.

Envelope Prompts

This setting controls the tray the user is directed to refill when specific envelope size is out. The selections are Auto (default), MP Feeder, and Manual Env.

To change the value of this setting:

1. Touch **Env Prompts** from the Configuration Menu. ◀ **[setting's current value]** ▶ appears on the touch screen.
2. Touch ◀ or ▶ to scroll through the setting's possible values.
3. To exit this screen without changing the setting's value, touch **Back**.
4. To save the setting's new value, touch **Submit**.

Jobs On Disk

Jobs On Disk allows you to delete buffered jobs saved on the disk.

To delete jobs saved on the disk:

1. Touch **Jobs On Disk** from the Configuration Menu.
2. Touch **Delete** to decrease the setting's value; touch ▶ to increase the setting's value.
3. Touch **Back** to cancel and return to the Configuration Menu.

Disk Encryption

This setting determines if the printer encrypts the information that it writes to the hard disk. The values are Disable and Enable.

Warning: If the value is changed from **Enable** to **Disable** or from **Disable** to **Enable**, then the printer completely formats the hard disk. All information on the disk will be unrecoverable.

To change this setting:

1. Touch **Disk Encryption** from the Configuration Menu.

Note: If an advanced password has been established, you must enter this password in order to change the setting. If no advanced password exists, you can establish one by using the keyboard that appears on the display.

2. Touch **Submit** to save the change.
3. Touch **Back** to cancel and return to the Configuration Menu.

If you remove an encrypted disk from a device and then try to install another disk, Disk Corrupted. Reformat? appears on the display. You can format the newly installed disk or remove it from the device.

Previous



Next



Go Back

When you touch **Enable** (encryption) or **Disable** (formatting), Contents will be lost. Continue? appears on the display. Touch **No** to cancel or **Yes** to proceed. If you touch **Yes**, the printer performs the selected action on the hard disk. The following graphic appears when the encryption process is selected:

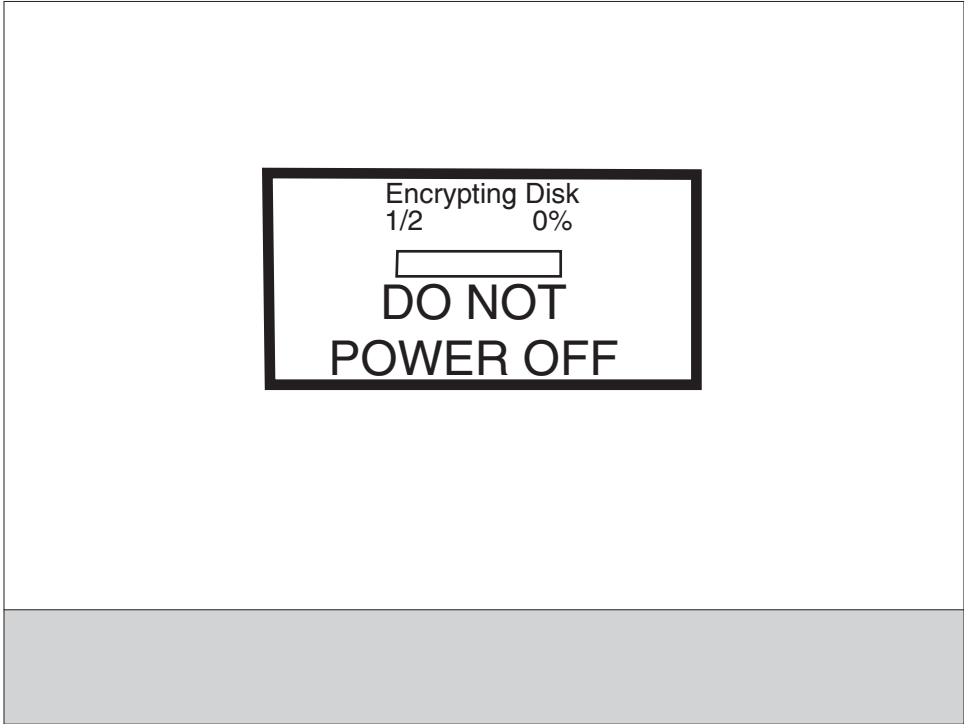
Previous



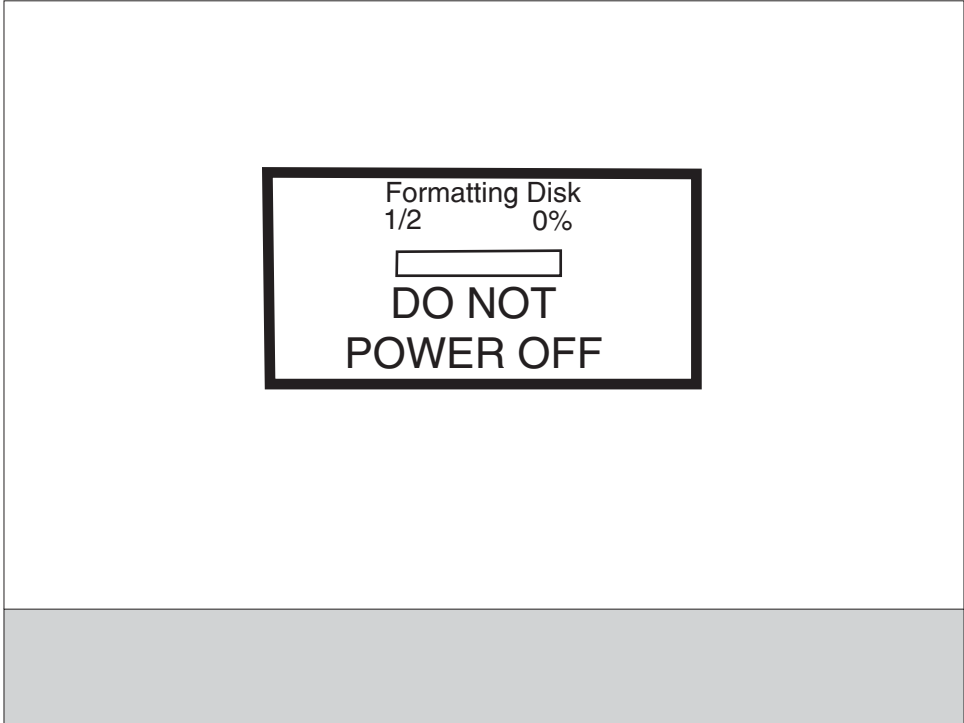
Next



Go Back



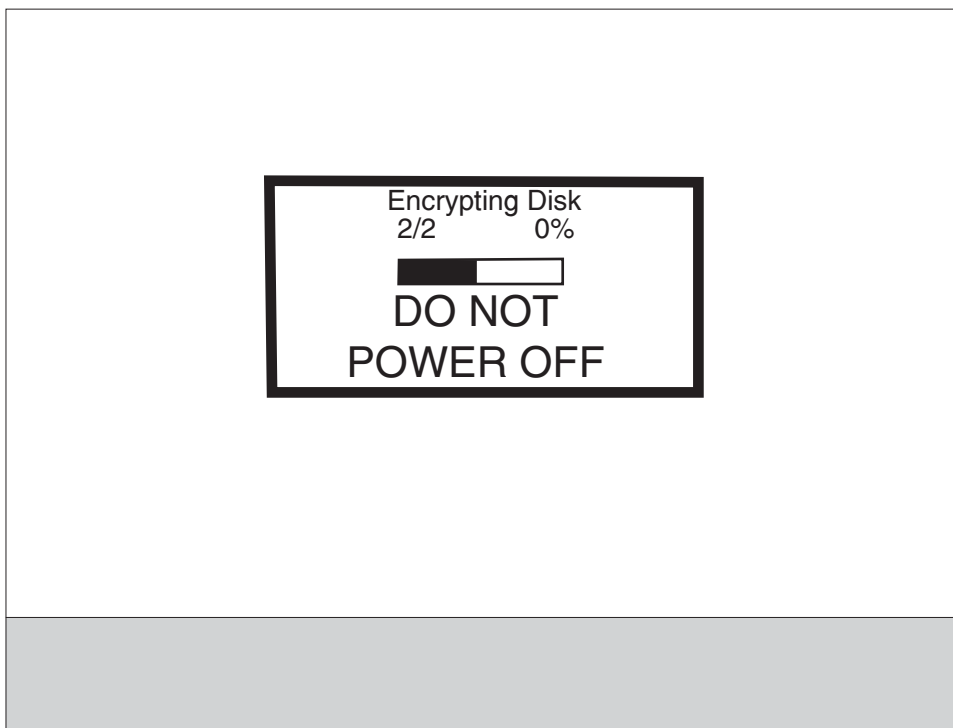
The following graphic appears when the formatting process is selected:



The panel provides many progress indicators during the two-stage process.

1. **1/2** indicates that the process is currently in the first stage.
2. **0%** indicates the progress of the current stage of the process.
3. The progress bar indicates the overall completion of the entire process by filling in throughout each separate stage.

When the first stage of either process completes, the printer displays either of the following graphics depending on the process selected and then begins the second stage of the process:



Previous



Next



Go Back

Previous



Next



Go Back



The entire process is complete when the progress bar appears completely shaded and the percentage indicator shows **100%**. After completion, the panel returns to Disk Encryption.

Wipe Disk

This setting provides you with a tool for erasing the contents of a disk.

Warning: Wipe Disk removes a disk's data in such a way that it cannot be recovered.

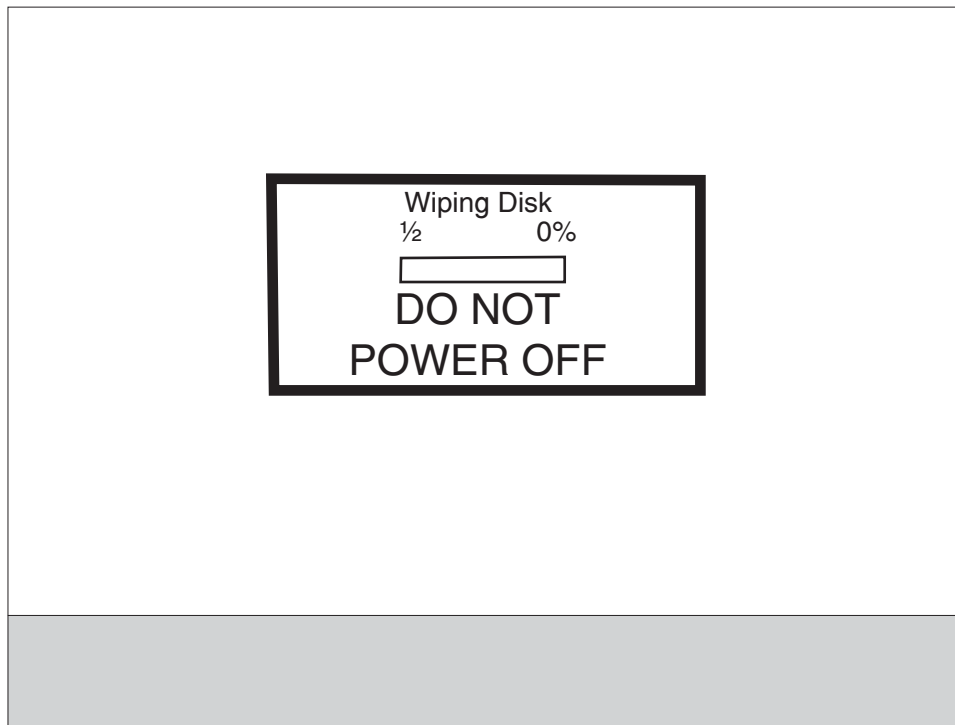
To change this setting:

1. Touch **Wipe Disk** from the Configuration Menu.

Note: If an advanced password has been established, you must enter this password in order to change the setting. If no advanced password exists, you can establish one by using the keyboard that appears on the display.

2. Touch **Wipe disk now**. Contents will be lost. Continue? appears on the display.
3. Touch **Back** to cancel and return to the Configuration Menu.

If you touch **No**, the device cancels the Wipe Disk process and returns to the Configuration Menu. If you touch **Yes**, the following screen appears:



Previous



Next

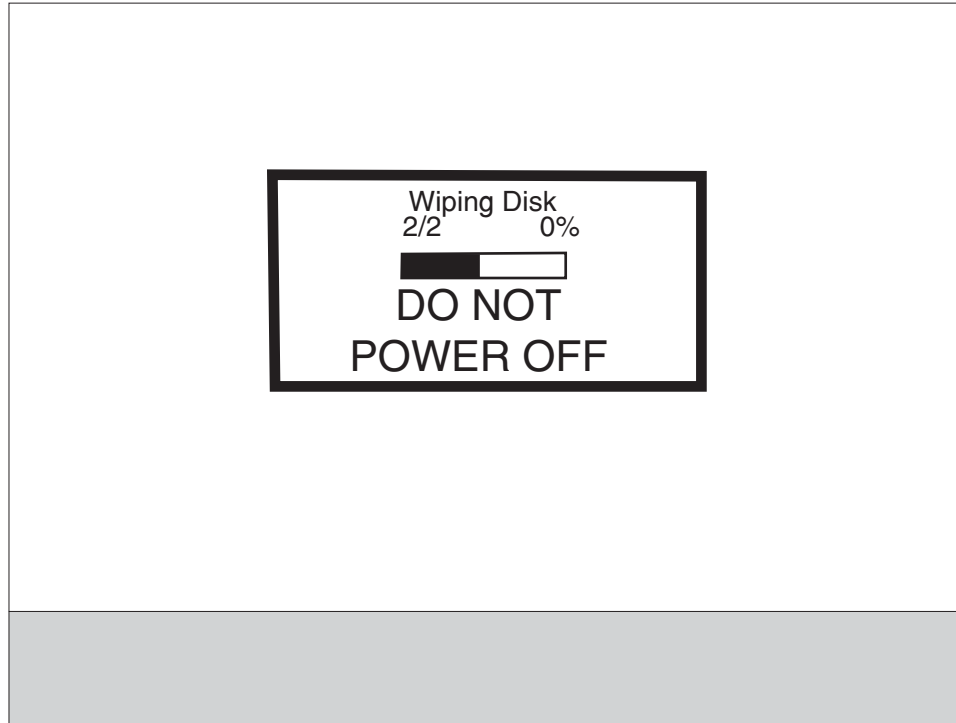


Go Back

The panel provides the following progress indicators during the execution of this process:

1. **1/2** indicates that the process is currently in the first stage.
2. **0%** indicates the progress of the current stage of the process.
3. The progress bar indicates the overall completion of the entire process by filling in throughout each separate stage.

When the first stage of the process completes, the printer displays the following graphic and then begins the second stage of the process:



Previous



Next



Go Back

The entire process is complete when the progress bar appears completely shaded and the percentage indicator shows **100%**. The panel returns to the screen that shows the values for the Wipe Disk setting.

Font Sharpening

This setting allows you to set a text point size below which the high frequency screens are used when printing font data. For example, at the default 24, all text in font sizes 24 and less will use the high frequency screens. The values for this setting range from 0 to 150.

To change this setting:

1. Touch **Font Sharpening** from the Configuration Menu.
2. Touch **▶** to increase the value or **◀** to decrease the value.
3. Touch **Back** to cancel and return to the Configuration Menu.
4. Touch **Submit** to save the change.

This setting affects the PostScript, PCL, PDF, and XL emulators.

This function is not supported when the device generates output at 600 dpi resolution.

Require Standby

This setting determines if the Standby Mode is **On** or **Off**. The default is **On**.

To change this setting:

1. Touch **Require Standby** from the Configuration Menu.
2. Touch **Back** to cancel and return to the Configuration Menu.
3. Touch **Submit** to save the change.

If Standby Mode is on, the printer begins functioning in Standby Mode when it remains idle for an amount of time. The Standby Mode enables the printer:

- To consume less energy than when operating in normal mode but not as little as when operating in Power Saver
- To return to the Ready state more quickly than when operating in Power Saver

Short Edge Printing

The default printing orientation is long edge. This setting allows you to enable or prohibit short edge fed paper. If the setting **Disabled** (default) is selected, letter and A4 paper can be fed only long edge. If they are fed short edge, a prompt will ask you to use the correct paper size. When the setting is **Enabled**, you can feed paper either long edge or short edge.

To change this setting:

1. Touch **Short Edge Printing** from the Configuration Menu.
2. Touch **Back** to cancel and return to the Configuration Menu.
3. Touch **Submit** to save the change.

Tray Low Message

This setting allows you to disable any Tray Low warnings that the printer may register.

Touching **Disabled** turns off the tray low prompts. The default is **Enabled**.

To change this setting:

1. Touch **Require Standby** from the Configuration Menu.
2. Touch **Back** to cancel and return to the Configuration Menu.
3. Touch **Submit** to save the change.

LES Applications

This disables all installed Lexmark Embedded Solution applications. The default is **Enabled**.

To change this setting:

1. Touch **LES Applications** from the Configuration Menu.

Note: If an advanced password has been established, you must enter this password in order to change the setting. If no advanced password exists, you can establish one by using the keyboard that appears on the display.

2. Touch **Back** to cancel and return to the Configuration Menu.
3. Touch **Submit** to save the change.

Previous



Next



Go Back

Key Repeat Initial Delay

When a key is touched repeatedly, this is the delay before the key begins repeating. The delay ranges from 0.25 seconds to 5 seconds. The default is 1 second. Values are given in increments of 0.25 seconds.

To change this setting:

1. Touch **Key Repeat Initial Delay** from the Configuration Menu.
2. Touch ► to increase the value or ◀ to decrease the value.
3. Touch **Submit** to save the change.
4. Touch **Back** to cancel and return to the Configuration Menu.

Key Repeat Rate

This is the number of times per second that a repeating key will repeat. The range is 1–100, with a default of 15 times per second.

To change this setting:

1. Touch **Key Repeat Initial Delay** from the Configuration Menu.
2. Touch ► to increase the value or ◀ to decrease the value.
3. Touch **Submit** to save the change.
4. Touch **Back** to cancel and return to the Configuration Menu.

Booklet Adjustments

The Booklet Adjustments menu is available if a booklet finisher is installed. You can select folding overlap and skew adjustments from this menu when printing booklets.

To adjust the folding overlap setting:

1. Touch **Booklet Adjustments** from the Configuration Menu.
2. Select the size of paper from the list.
3. Select the total number of sheets from the list.
4. Touch **Adjust for folding overlap**.
5. Select top or bottom overlap based on the printed output.
6. Touch ► to increase the value or ◀ to decrease the value.
7. Touch **Back** to cancel and return to the Configuration Menu.
8. Touch **Submit** to save the change.

To adjust the skew setting:

1. Touch **Booklet Adjustments** from the Configuration Menu.
2. Select the size of paper from the list.
3. Select the total number of sheets from the list.
4. Touch **Adjust for skew during booklet making**.
5. Select top or bottom overlap based on the printed output.
6. Touch ► to increase the value or ◀ to decrease the value.
7. Touch **Back** to cancel and return to the Configuration Menu.
8. Touch **Submit** to save the change.

Previous



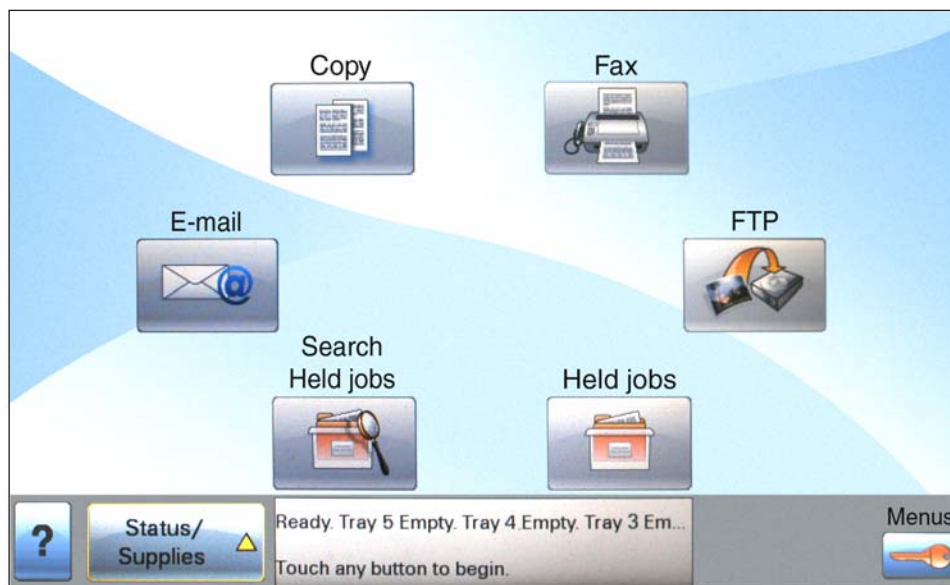
Next



Go Back

Exiting Configuration Menu

From the Configuration Menu, touch **Back** until a graphic appears with **Exit Config Menu** in the lower right corner. Touch **Exit Config Menu** to exit the Configuration Menu. Reseting the Printer appears on the display. The printer performs a POR, and the following graphic appears on the display:



Previous



Next



Go Back

Import Print Defect Guide Here:::

Previous



Next



Go Back

Repeating defects

Previous

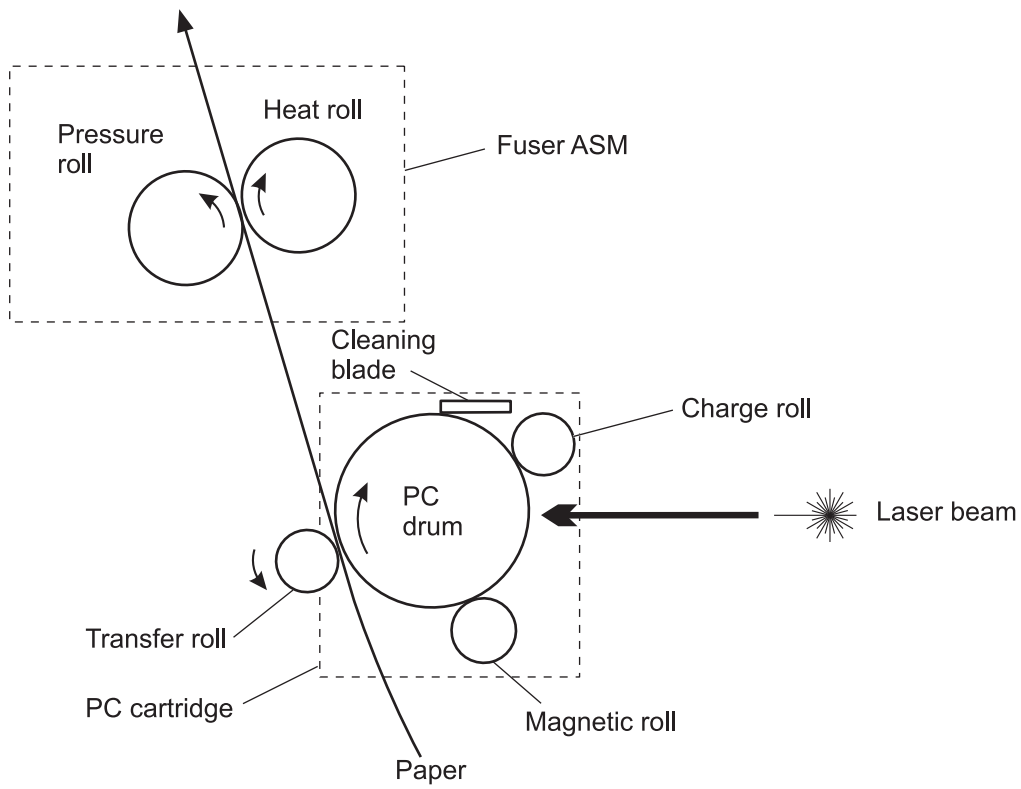


Next



Go Back

Roll	Pitch
PC drum	94 mm
Charge roll	44 mm
Transfer roll	59 mm
Fuser heat roll	79 mm
Fuser pressure roll	94 mm
Registration roll	44 mm



4. Repair information

Warning: Read the following before handling electronic parts.

Handling ESD-sensitive parts

Many electronic products use parts that are known to be sensitive to electrostatic discharge (ESD). To prevent damage to ESD-sensitive parts, use the following instructions in addition to all the usual precautions, such as turning off power before removing logic boards:

- Keep the ESD-sensitive part in its original shipping container (a special “ESD bag”) until you are ready to install the part into the machine.
- Make the least-possible movements with your body to prevent an increase of static electricity from clothing fibers, carpets, and furniture.
- Put the ESD wrist strap on your wrist. Connect the wrist band to the system ground point. This discharges any static electricity in your body to the machine.
- Hold the ESD-sensitive part by its edge connector shroud (cover); do not touch its pins. If you are removing a pluggable module, use the correct tool.
- Do not place the ESD-sensitive part on the machine cover or on a metal table; if you need to put down the ESD-sensitive part for any reason, first put it into its special bag.
- Machine covers and metal tables are electrical grounds. They increase the risk of damage, because they make a discharge path from your body through the ESD-sensitive part. (Large metal objects can be discharge paths without being grounded.)
- Prevent ESD-sensitive parts from being accidentally touched by other personnel. Install machine covers when you are not working on the machine, and do not put unprotected ESD-sensitive parts on a table.
- If possible, keep all ESD-sensitive parts in a grounded metal cabinet (case).
- Be extra careful in working with ESD-sensitive parts when cold-weather heating is used, because low humidity increases static electricity.

Previous





Next



Go Back

Removal procedures

	<p>CAUTION—SHOCK HAZARD:</p> <p>Remove the power cord from the electrical outlet and then from the printer before connecting or disconnecting any cable, assembly, or electronic board. This is a precaution for personal safety and to prevent damage to the printer. Disconnect any connections between the printer and PCs/peripherals.</p>
---	---


	<p>CAUTION—POTENTIAL INJURY:</p> <p>The printer weighs approximately 75 kg (165 lbs) and requires two or more trained personnel to lift it safely. Make sure your fingers are not under the printer when you lift or set the printer down.</p>
---	---

Parts removal and replacement procedures are described in this chapter.

Note: Parts are controlled as spare parts. When servicing parts for which no procedure is described, observe the assembly before starting the service.

Note: Though the optional parts are assumed to be removed, they may not be removed if not required for the purpose of service.

Before starting service work

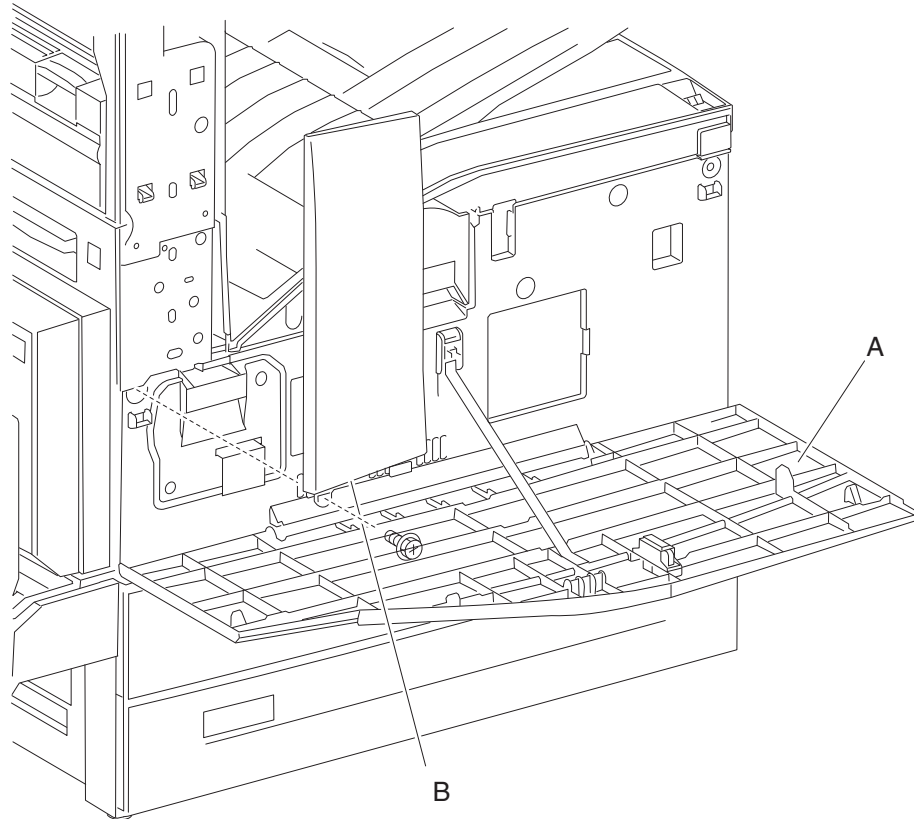
	<p>CAUTION—HOT SURFACE:</p> <p>The inside of the printer might be hot. To reduce the risk of injury from a hot component, allow the surface to cool before touching.</p>
---	---

Note: A wide variety of screws are used; make note of their positions during service.



Printer front left cover removal

1. Remove the exit 2 unit assembly. See **“Exit 2 unit assembly removal”** on page 4-322.
2. Open the printer front door assembly (A).
3. Remove the one screw securing the front left cover (B) to the machine.
4. Remove the printer front left cover (B).



Previous



Next

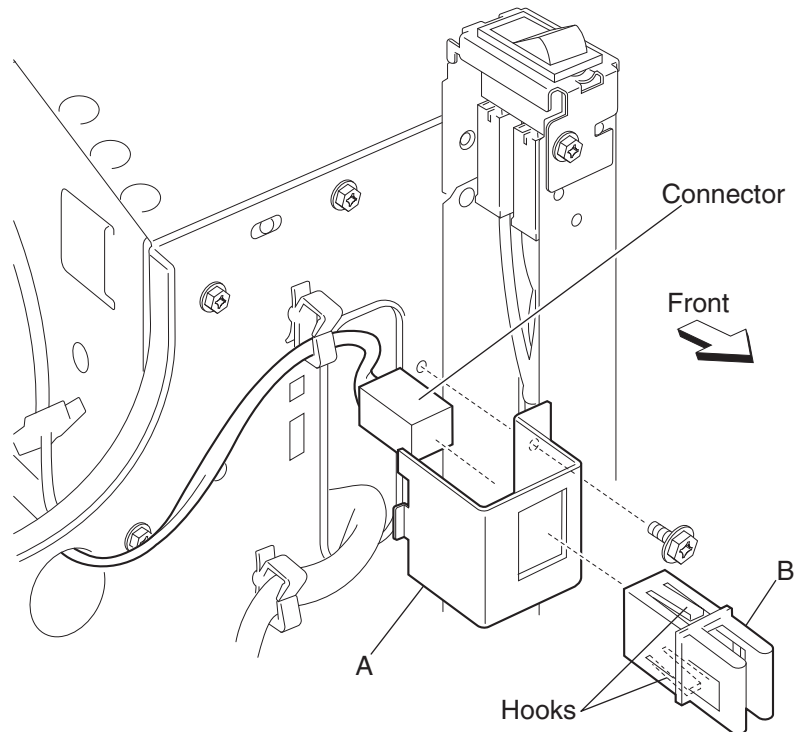


Go Back

Switch (printer front door interlock) removal

Note: First remove the bridge unit and finisher, if equipped. Refer to the *Options Service Manual*.

1. Remove the top cover assembly. See **“Top cover assembly removal”** on page 4-5.
2. Remove the printer front door assembly. See **“Printer front door assembly removal”** on page 4-6.
3. Remove the printer front left cover. See **“Printer front left cover removal”** on page 4-3.
4. Remove the front inner cover. See **“Front inner cover removal”** on page 4-8.
5. Remove one screw securing the bracket (A).
6. Disconnect the connector from the switch (printer front door interlock) (B).
7. Release the hooks securing the switch (printer front door interlock) (B) to the bracket (A).
8. Remove the switch (printer front door interlock) (B).



Previous



Next

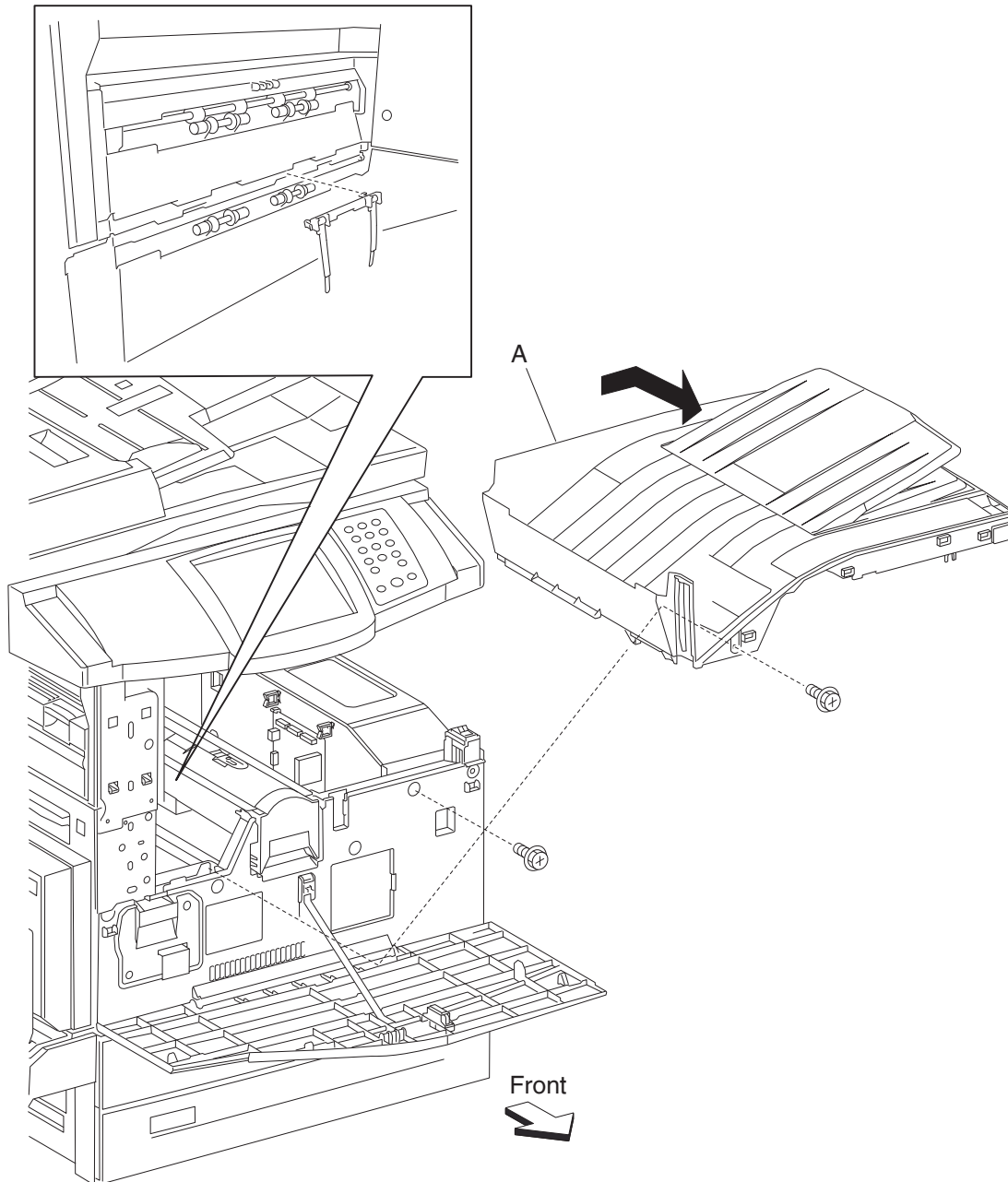


Go Back

Top cover assembly removal

Note: First remove the bridge unit and finisher, if equipped.

1. Remove the operator panel assembly. See **“Operator panel assembly removal”** on page 4-135.
2. Remove the printer front door assembly. See **“Printer front door assembly removal”** on page 4-6.
3. Remove the printer front left cover. See **“Printer front left cover removal”** on page 4-3.
4. Remove two screws securing the top cover assembly (A).
5. Remove the top cover assembly (A) by sliding it to the right and then forward in the direction of the arrow.



Previous



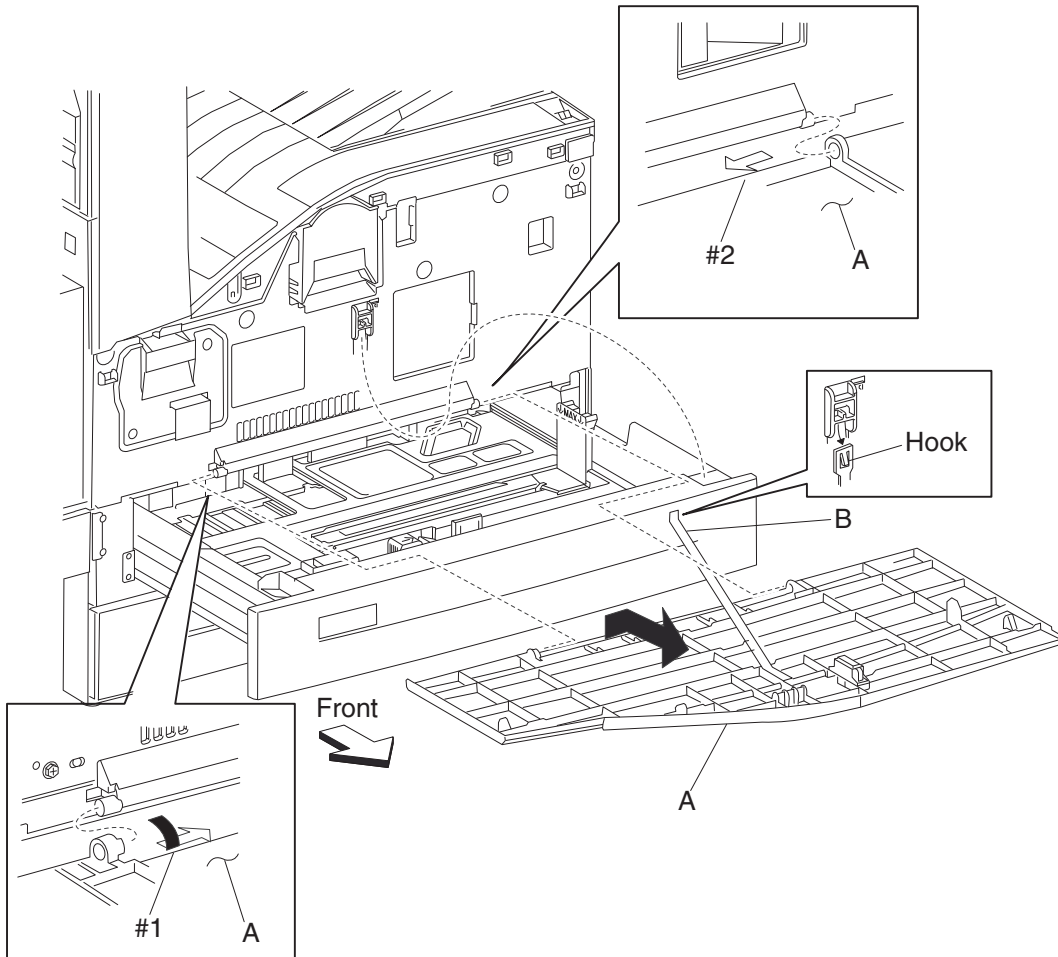
Next



Go Back

Printer front door assembly removal

1. Open printer front door assembly (A).
2. Remove the front door support strap (B) securing the printer front door assembly (A) to the printer by releasing the plastic hook.
3. With the front door support strap (B) disconnected, place the printer front door assembly (A) in the lowermost position.
4. Slide the printer front door assembly (A) first to the right (as shown by arrow #1) to remove the printer front door assembly (A) from the right hinge point.
5. Slide the printer front door assembly (A) to the left (as shown by arrow #2) to remove the printer front door assembly (A) from the left hinge point.
6. Raise the printer front door assembly to its upright position, and remove it.



Previous



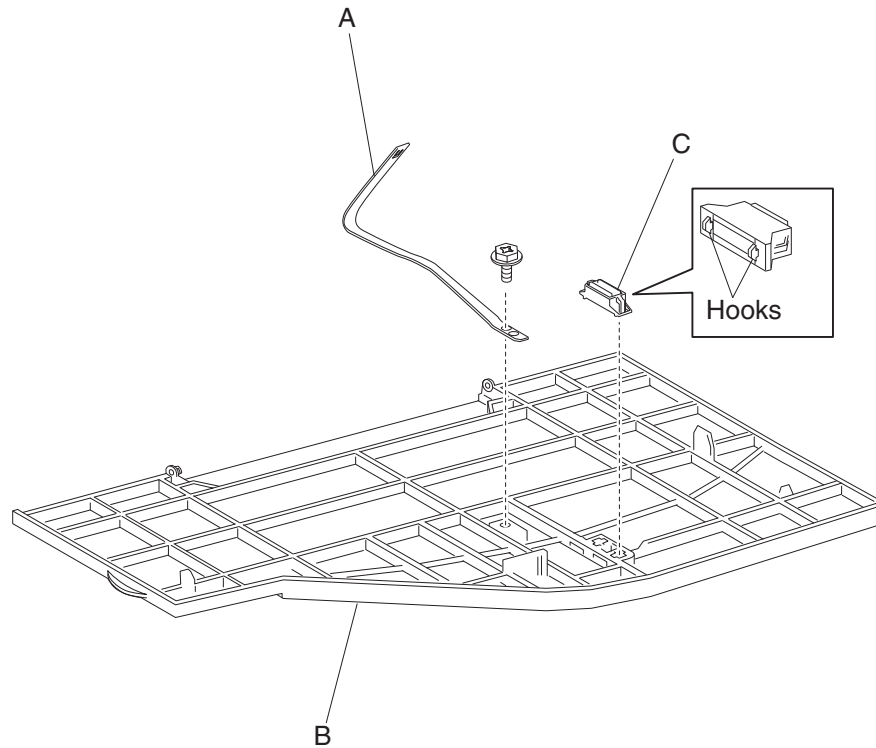
Next



Go Back

Front door support strap and front door magnetic catch removal

1. Open the printer front door assembly.
2. Remove one screw securing the front door support strap (A) to the printer front door assembly (B).
3. Remove the front door support strap (A).
4. Release two hooks on the printer front door assembly securing the front door magnetic catch (C).
5. Remove the front door magnetic catch (C).



Previous



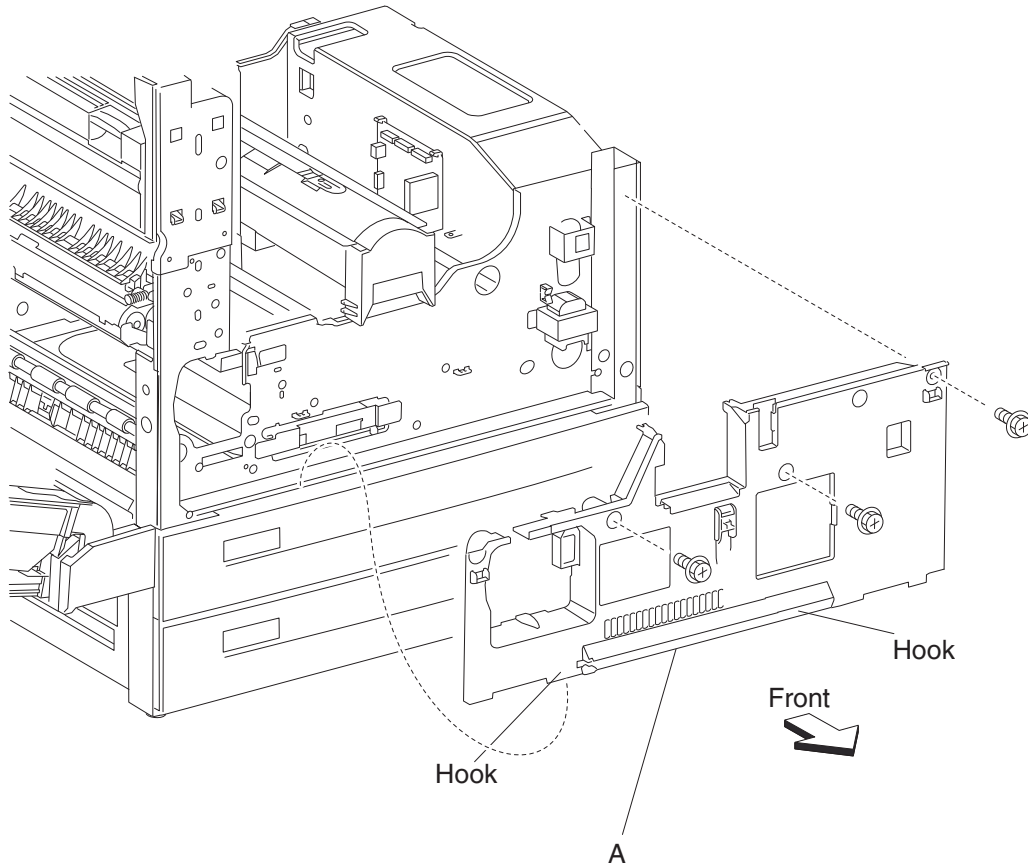
Next



Go Back

Front inner cover removal

1. Remove the top cover assembly. See **“Top cover assembly removal”** on page 4-5.
2. Remove the printer front door assembly. See **“Printer front door assembly removal”** on page 4-6.
3. Remove the printer front left cover. See **“Printer front left cover removal”** on page 4-3.
4. Remove the PC cartridge.
5. Remove the three screws securing the front inner cover (A).
6. Remove the front inner cover (A).



Note: To reinstall the front inner cover (A), start with the four plastic hooks on the bottom of the front inner cover.

Previous



Next



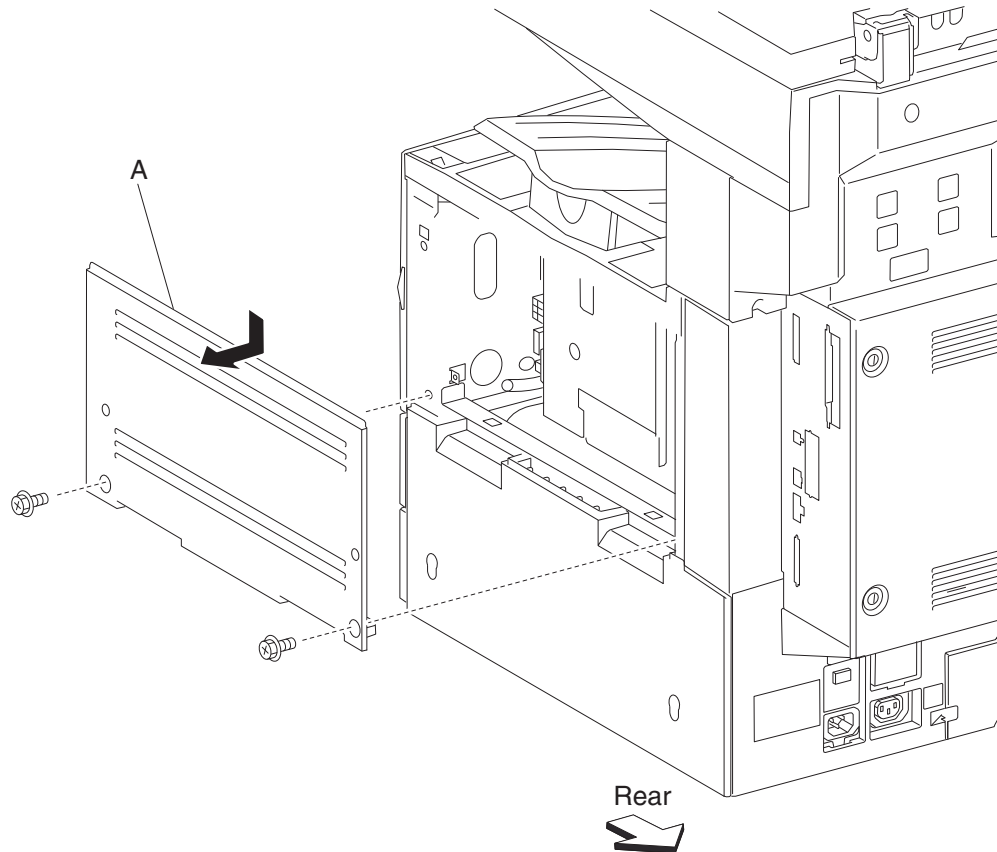
Go Back

Right upper cover removal

Note: First, remove the bridge unit, finisher and finisher docking bracket, if equipped.

1. Remove two screws securing the right upper cover (A).
2. Move the upper edge of the right upper cover (A) downward and outward as shown by the arrow.
3. Move the lower edge of the right upper cover (A) downward to release the right upper cover (A).
4. Remove the right upper cover (A).

Note: The right upper cover (A) may take some extra force to remove.



Previous



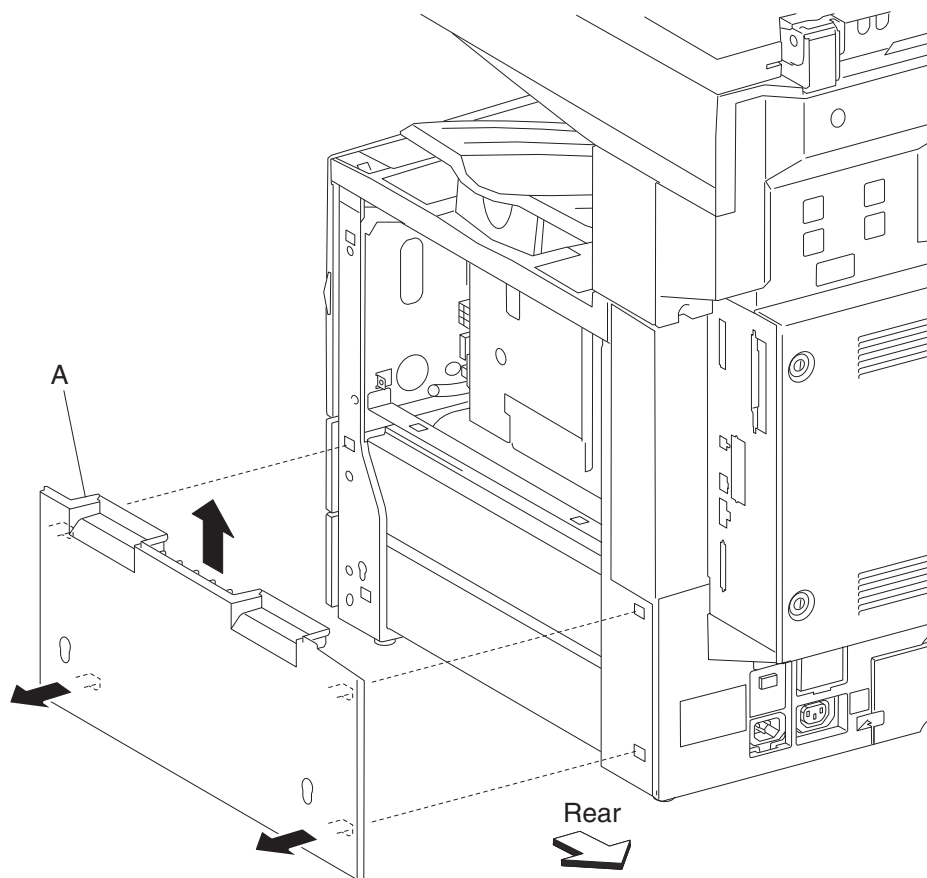
Next



Go Back

Right lower cover removal

1. Remove the right upper cover. See **“Right upper cover removal”** on page 4-9.
2. Pull out the media Tray 1 and the media Tray 2.
3. Remove the right lower cover (A) by lifting it upward then outward.
Note: The right lower cover may require some force to remove.



Previous



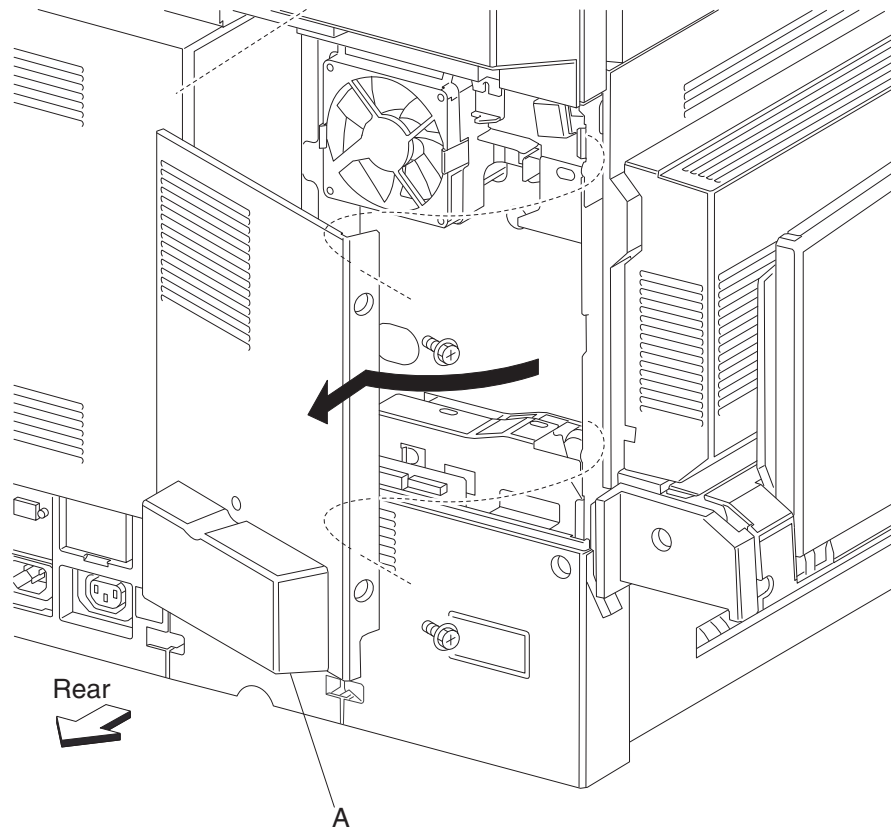
Next



Go Back

Rear motor cover removal

1. Remove the rear RIP card cover. See **“Rear RIP card cover removal”** on page 4-13.
2. Remove the controller box side cover. See **“Controller box side cover removal”** on page 4-18.
3. Remove the two screws securing the rear motor cover (A).
4. Open the rear motor cover (A) by swinging it outward in the direction of the arrow.
5. Remove the rear motor cover (A).



Previous



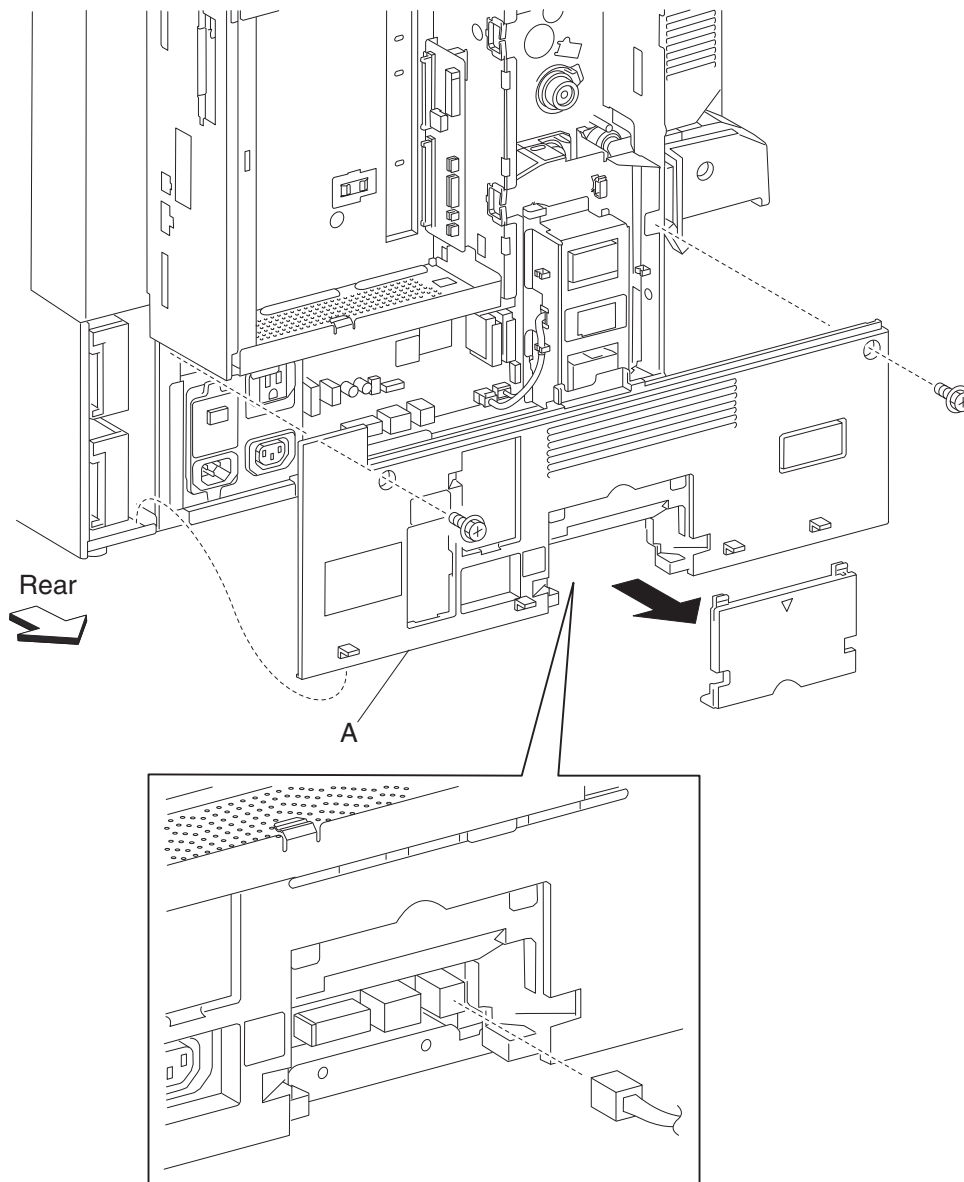
Next



Go Back

Rear lower cover removal

1. Remove the rear RIP card cover. See **“Rear RIP card cover removal”** on page 4-13.
2. Remove the rear motor cover. See **“Rear motor cover removal”** on page 4-11.
3. Remove the controller box lower cover. See **“Controller box lower cover removal”** on page 4-17.
4. Remove the two screws securing the rear lower cover (A).
5. Remove the rear lower cover (A).



Previous



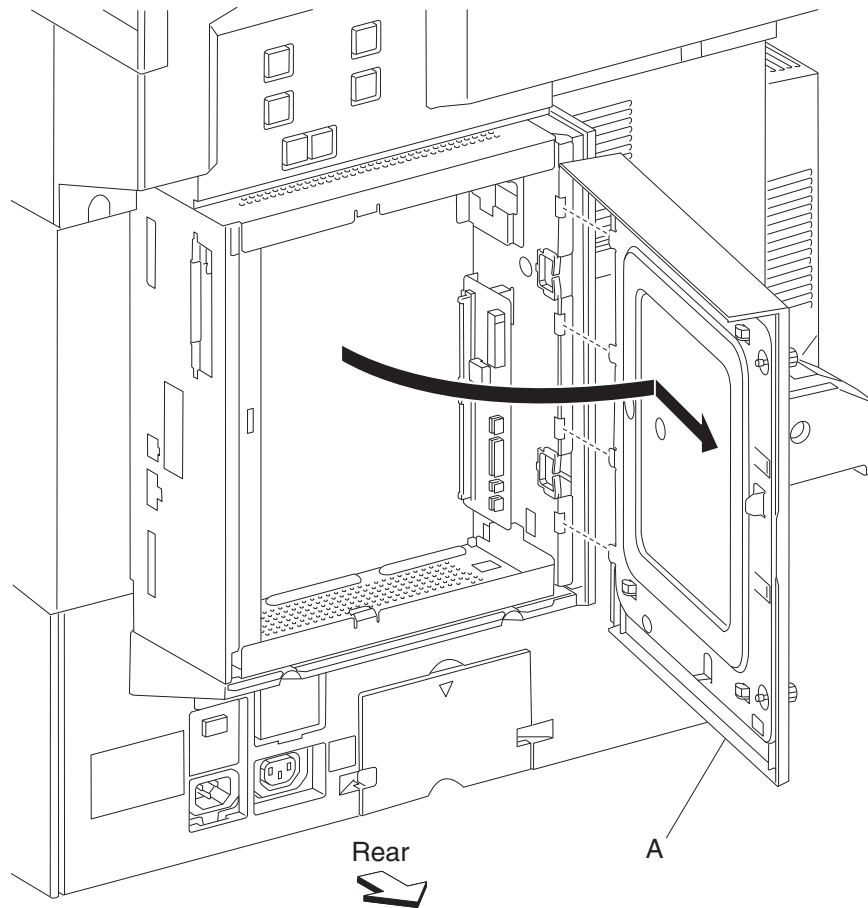
Next



Go Back

Rear RIP card cover removal

1. Loosen the two screws securing the rear RIP card cover (A).
2. Remove the rear RIP card cover (A) by moving it in the direction of the arrow.



Previous



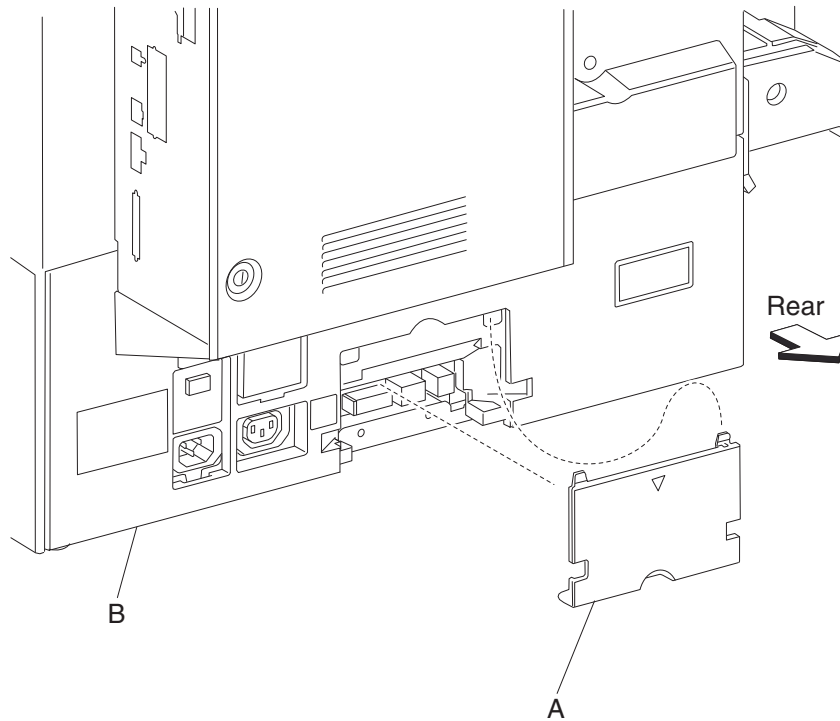
Next



Go Back

Option hookup cover removal

Remove the option hookup cover (A) from the rear lower cover (B) by moving it outward in the direction of the arrow.



Previous



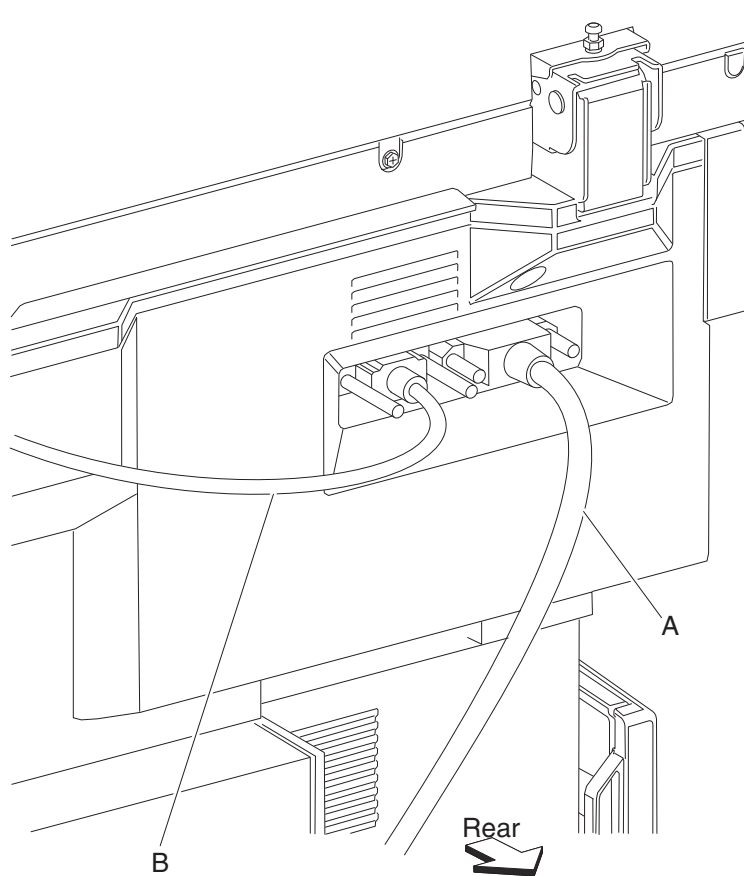
Next



Go Back

Rear upper cover removal

1. Remove the scanner interface cable assembly (A).
2. Remove the ADF interface cable assembly (B).



3. Remove the rear RIP card cover. See **“Rear RIP card cover removal”** on page 4-13.
4. Remove the controller box side cover. See **“Controller box side cover removal”** on page 4-18.
5. Remove the rear motor cover. See **“Rear motor cover removal”** on page 4-11.
6. Remove the four screws securing the rear upper cover (C) to the machine.

Previous

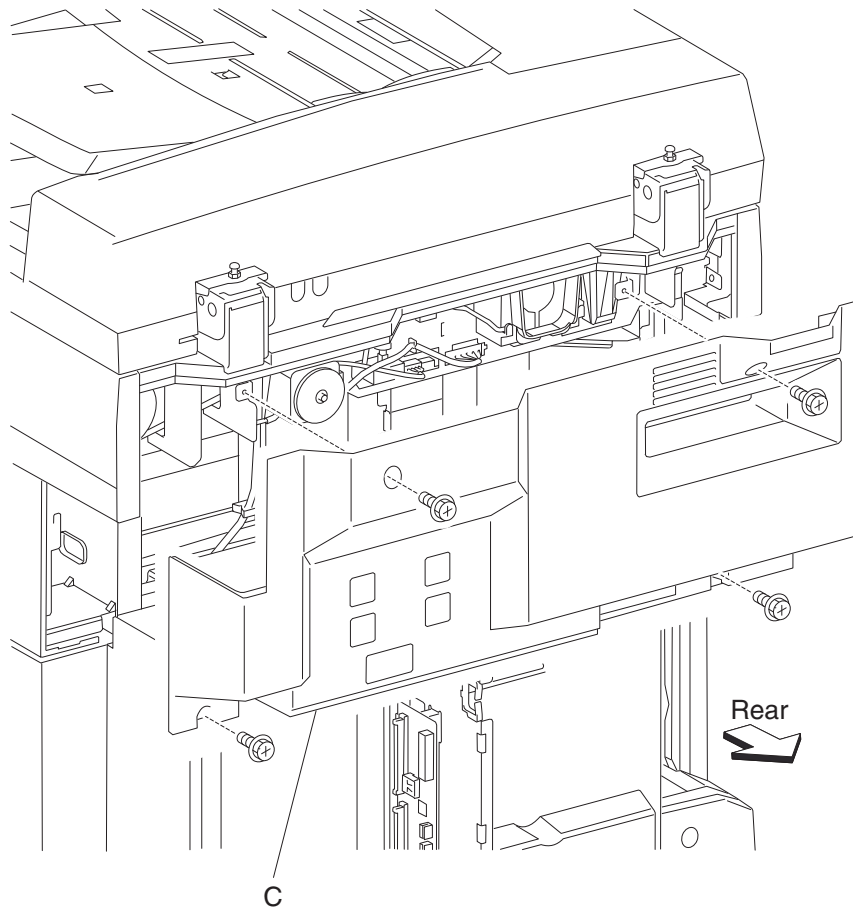


Next



Go Back

7. Remove the rear upper cover (C).



Previous



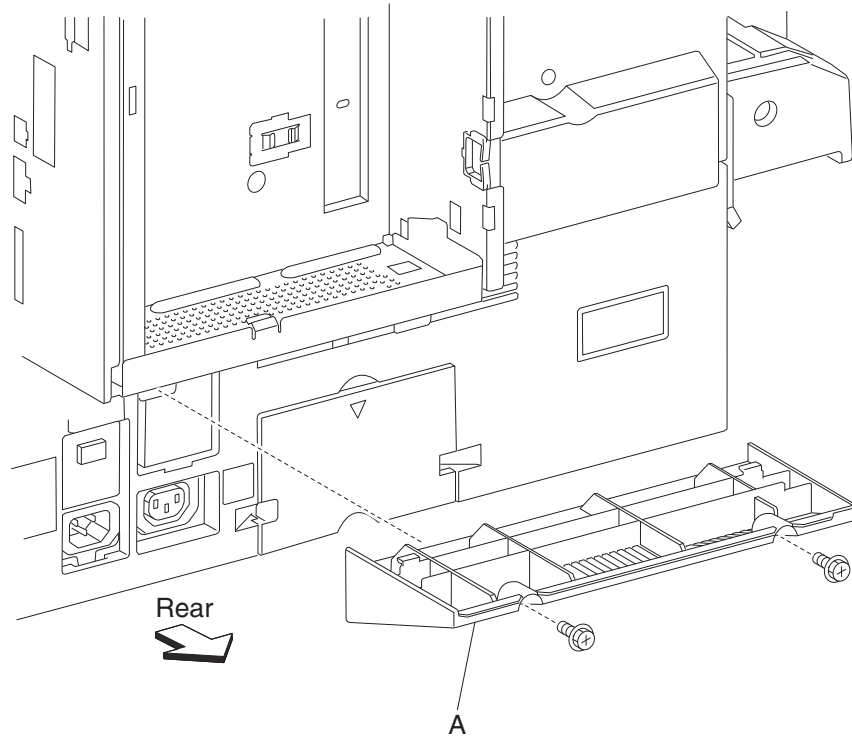
Next



Go Back

Controller box lower cover removal

1. Remove the rear RIP card cover. See **“Rear RIP card cover removal”** on page 4-13.
2. Remove the two screws securing the controller box lower cover (A) to the machine.
3. Remove the controller box lower cover (A).



Previous



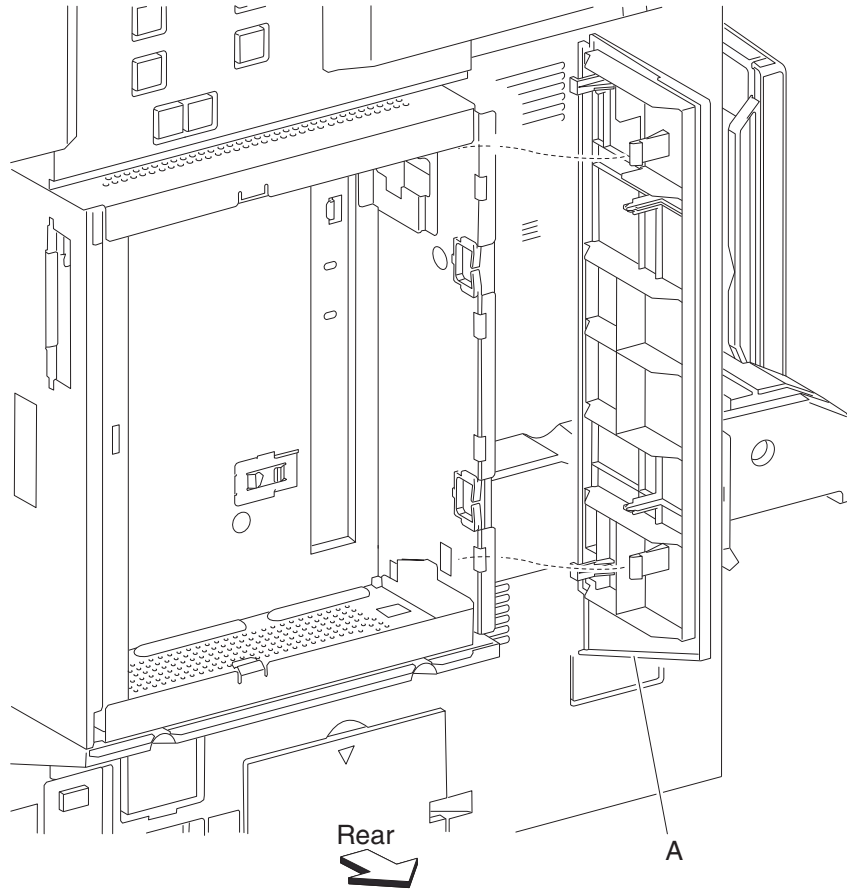
Next



Go Back

Controller box side cover removal

1. Remove the rear RIP card cover. See **“Rear RIP card cover removal”** on page 4-13.
2. Release the two hooks securing the controller box side cover (A) to the machine.
3. Remove the controller box side cover (A).



Previous



Next

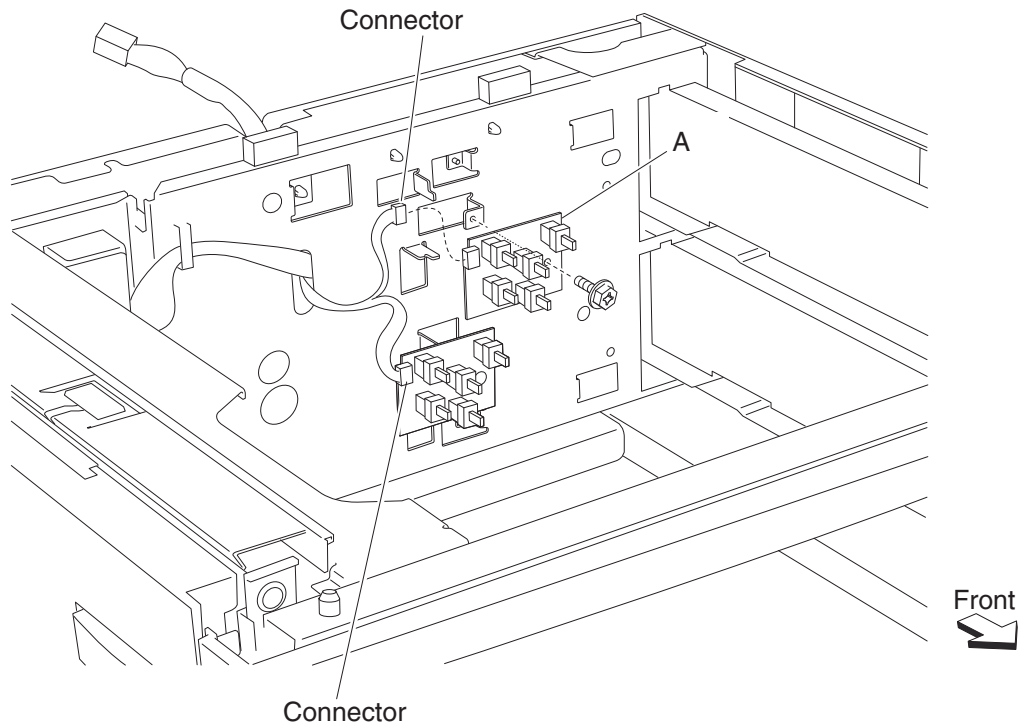


Go Back

Switch (media size) removal

Note: This procedure can be applied to tray 1 or tray 2 switch (media size).

1. Remove the media Tray 1 and the media Tray 2.
2. Remove one screw securing the switch (media size) (A) to the bracket inside the machine.
3. Remove the connector from switch (media size) (A).
4. Remove the switch (media size) (A).



Previous



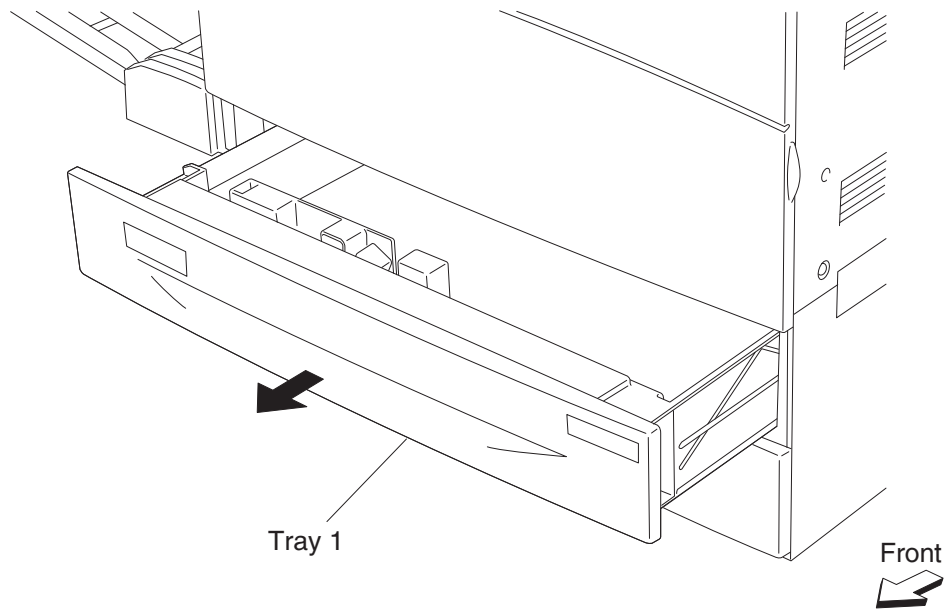
Next



Go Back

Media feed unit assembly 1 removal

1. Remove the MPF rear cover. See **“MPF rear cover removal”** on page 4-58.
2. Remove the MPF feed unit assembly. See **“MPF feed unit assembly removal”** on page 4-54.
3. Remove the printer left door assembly. See **“Printer left door assembly removal”** on page 4-75.
4. Remove the vertical drive gear assembly. See **“Vertical drive gear assembly removal”** on page 4-67.
5. Pull out the media Tray 1.



Previous

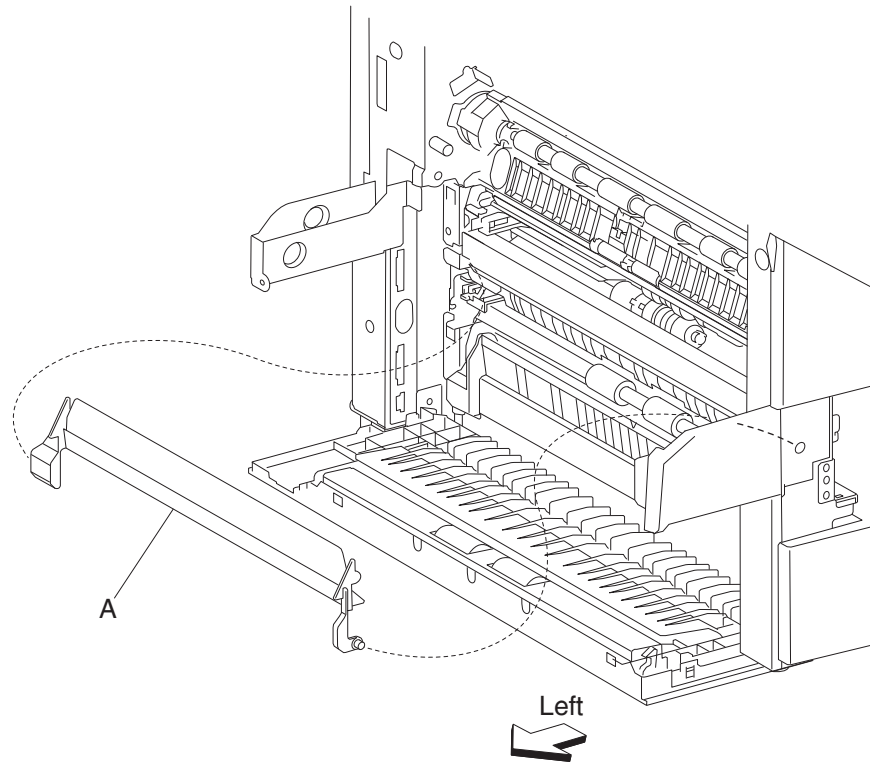


Next



Go Back

6. Release the plastic bosses on both ends of the vertical turn mylar guide (A).
7. Remove the vertical turn mylar guide (A).
Warning: The vertical turn mylar guide will take extra force to remove. Be careful not to damage it.
8. Release the harness from the plastic clamps on the machine.
9. Disconnect the connector.



Previous

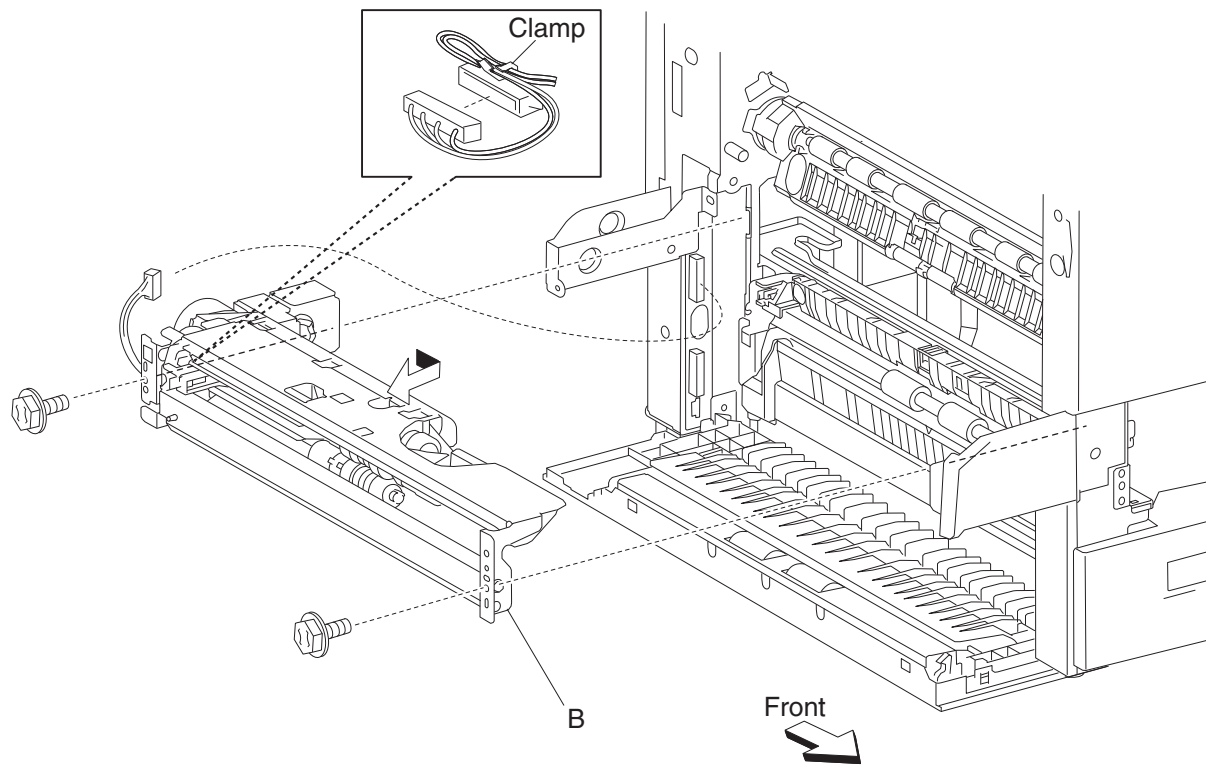


Next



Go Back

10. Remove the two screws securing the media feed unit assembly (B).
11. Remove the media feed unit assembly (B) in the direction of the arrow.



Previous



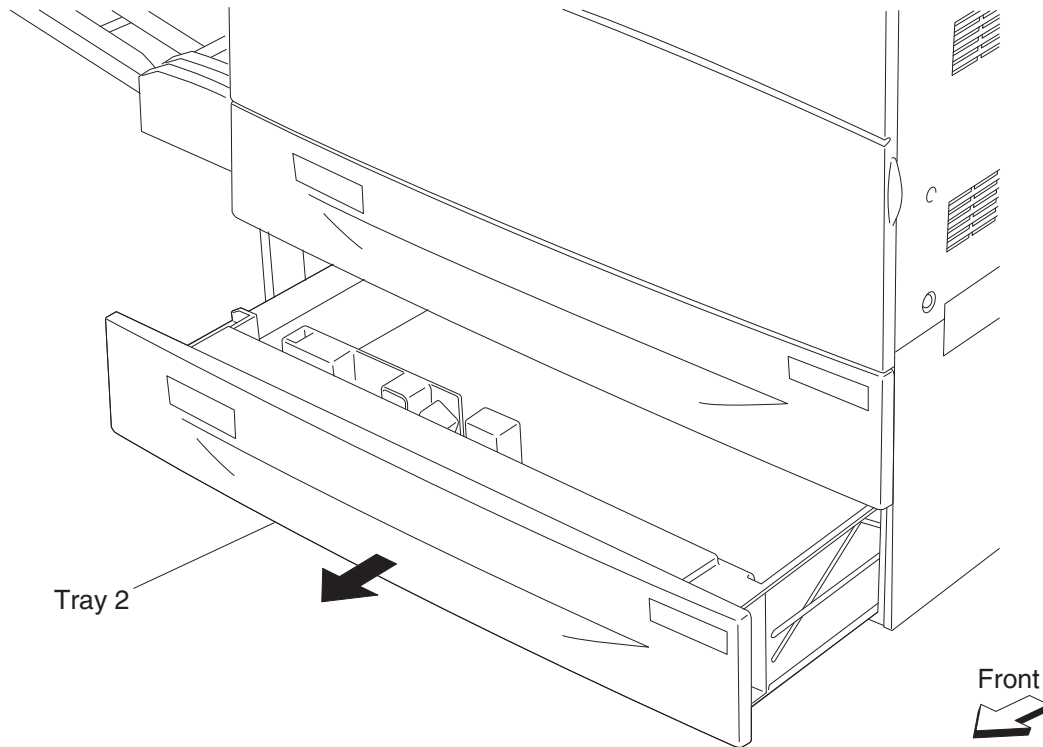
Next



Go Back

Media feed unit assembly 2 removal

1. Remove the MPF rear cover. See **“MPF rear cover removal”** on page 4-58.
2. Remove the MPF feed unit assembly. See **“MPF feed unit assembly removal”** on page 4-54.
3. Remove the printer left door assembly. See **“Printer left door assembly removal”** on page 4-75.
4. Open the printer left lower door assembly. See **“Printer left lower door assembly removal”** on page 4-70.
5. Remove the vertical drive gear assembly. See **“Vertical drive gear assembly removal”** on page 4-67.
6. Pull the out media Tray 2.



Previous

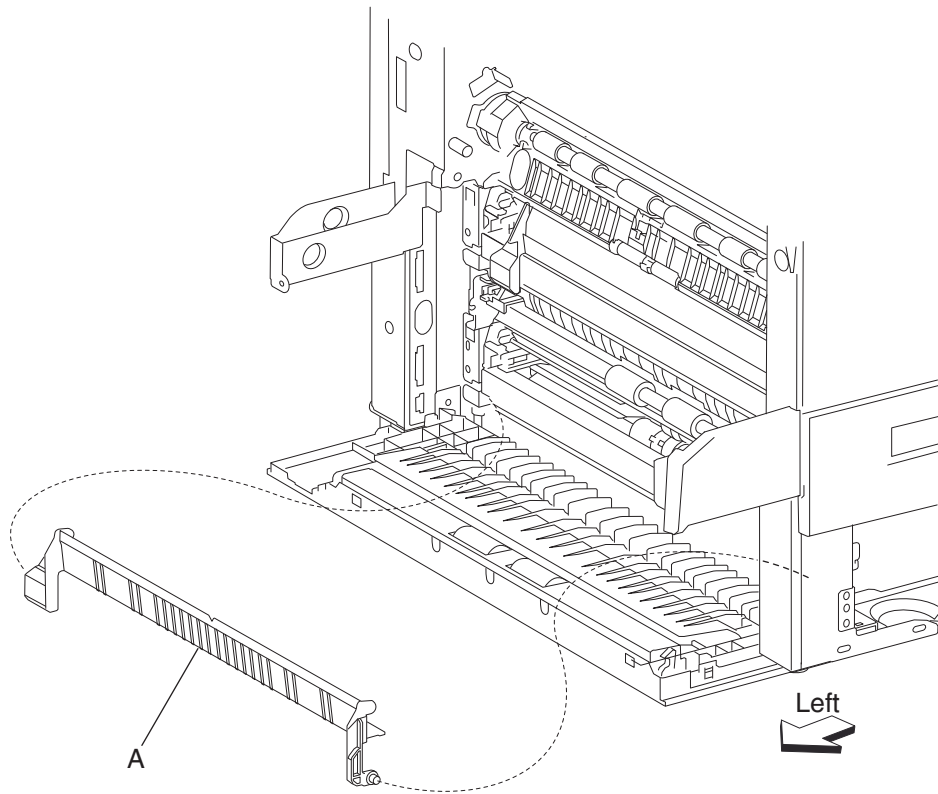


Next



Go Back

7. Release the plastic bosses on both ends of the vertical turn guide (A).
8. Remove the vertical turn guide (A).



Previous

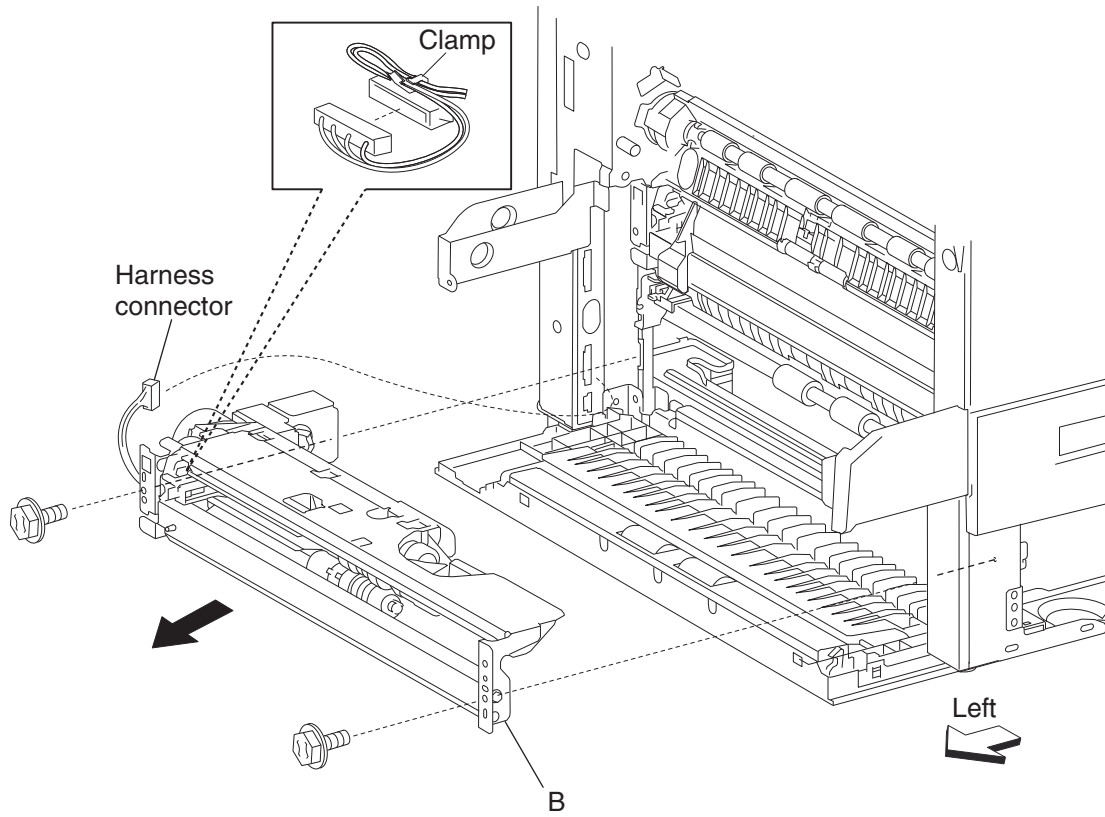


Next



Go Back

9. Release the harness from the plastic clamps on the machine.
10. Disconnect the harness connector from the machine.
11. Remove the two screws securing the media feed assembly (B).
12. Remove the media feed assembly (B) in the direction of the arrow.



Previous



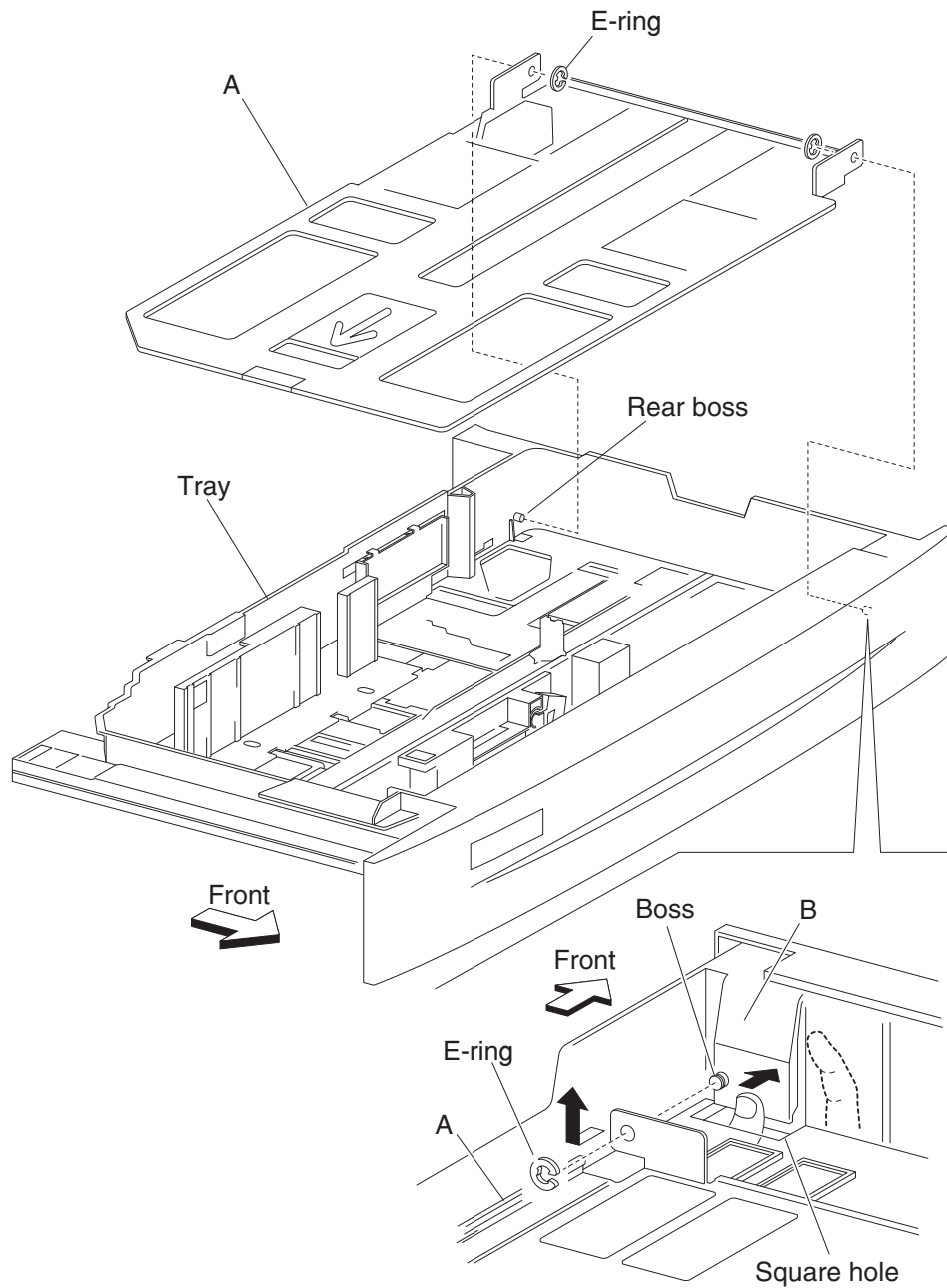
Next



Go Back

Media tray side guides removal

1. Remove the media tray.
2. Remove the two e-rings securing the metal bottom plate (A) to the media tray using a small prying tool.
3. Push the front hinge point (B) in the direction of the arrow to release the front boss from the metal bottom plate (A).
4. Remove the metal bottom plate (A) by sliding it off the rear boss.



Previous



Next



Go Back

5. Remove the two screws securing the two pinion gears (C) to the media tray.
6. Remove the pinion gears (C).

Previous

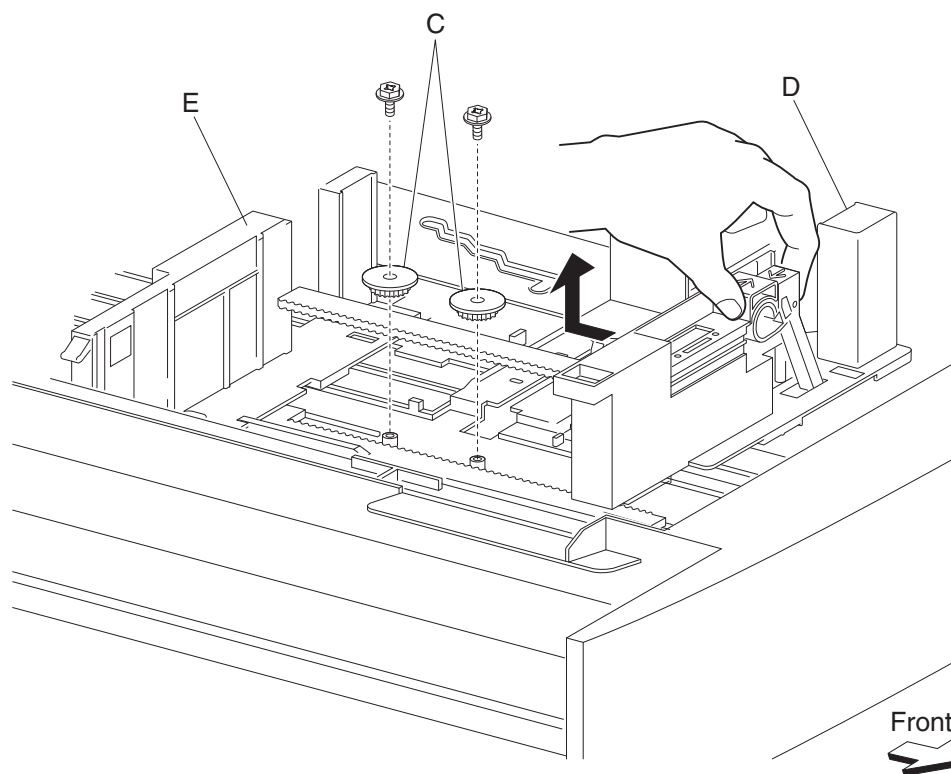


Next



Go Back

7. Remove the front media guide assembly (D) and the rear media guide (E) by sliding them toward the center of the media tray assembly and lifting up.



Note: Before reinstalling the pinion gears (C), slide the front media tray guide assembly (D) and the rear

Previous

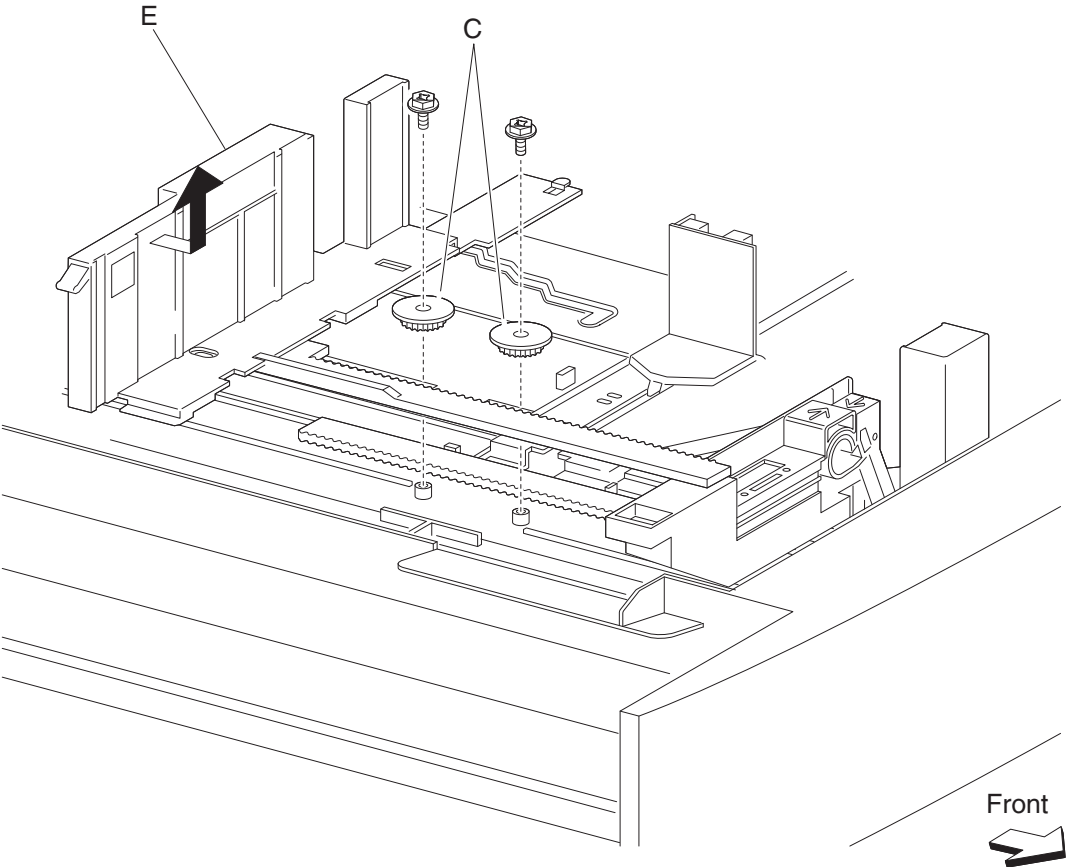


Next



Go Back

media guide (E) to their outermost positions. Ensure the media side guides slide smoothly.



Previous



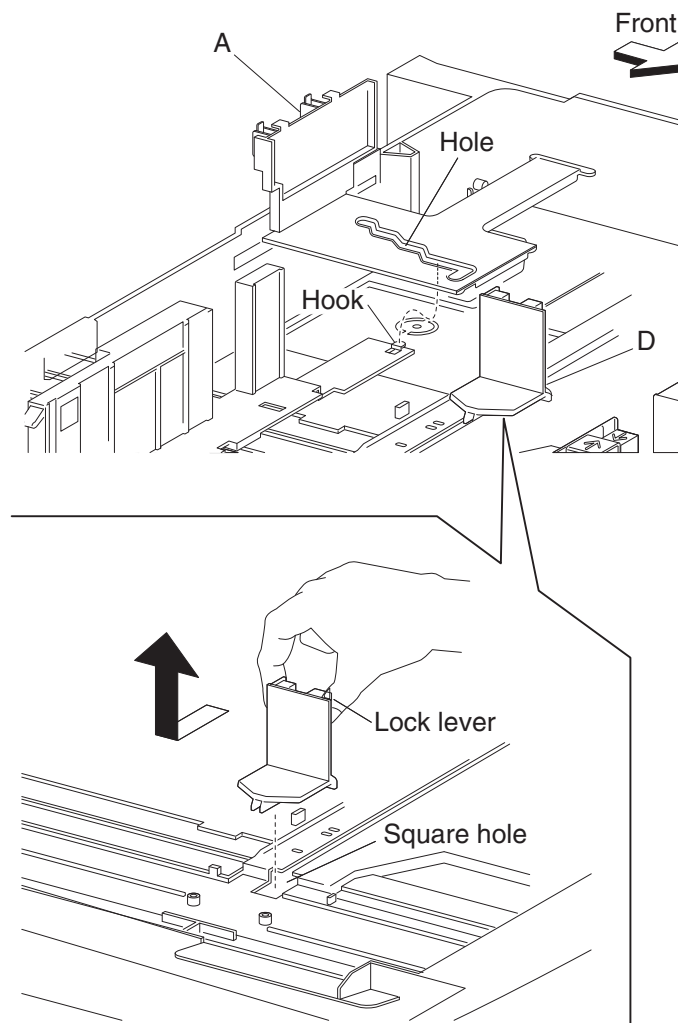
Next



Go Back

Media tray end guide removal

1. Remove the media tray.
2. Remove the media tray side guides. See **“Media tray side guides removal”** on page 4-26.
3. Remove the media side guide actuator (A).



Previous

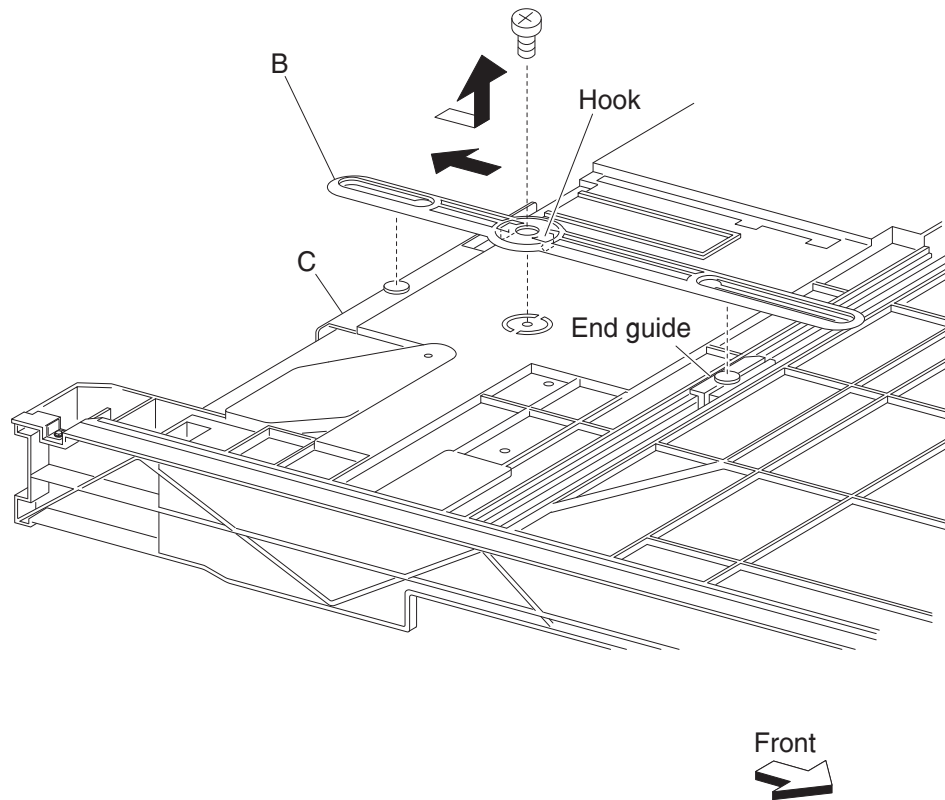


Next



Go Back

4. Turn the media tray assembly upside down, and remove the screw and two hooks securing the actuator link (B) to the media tray.
5. Release the boss on the media end guide actuator (C) from the hole in the actuator link (B) by moving the link in the direction of the arrow.
6. Remove the media end guide actuator (C).
7. Turn the media tray assembly right side up, and slide the media tray end guide (D) toward the center of the media tray assembly to remove.



Previous



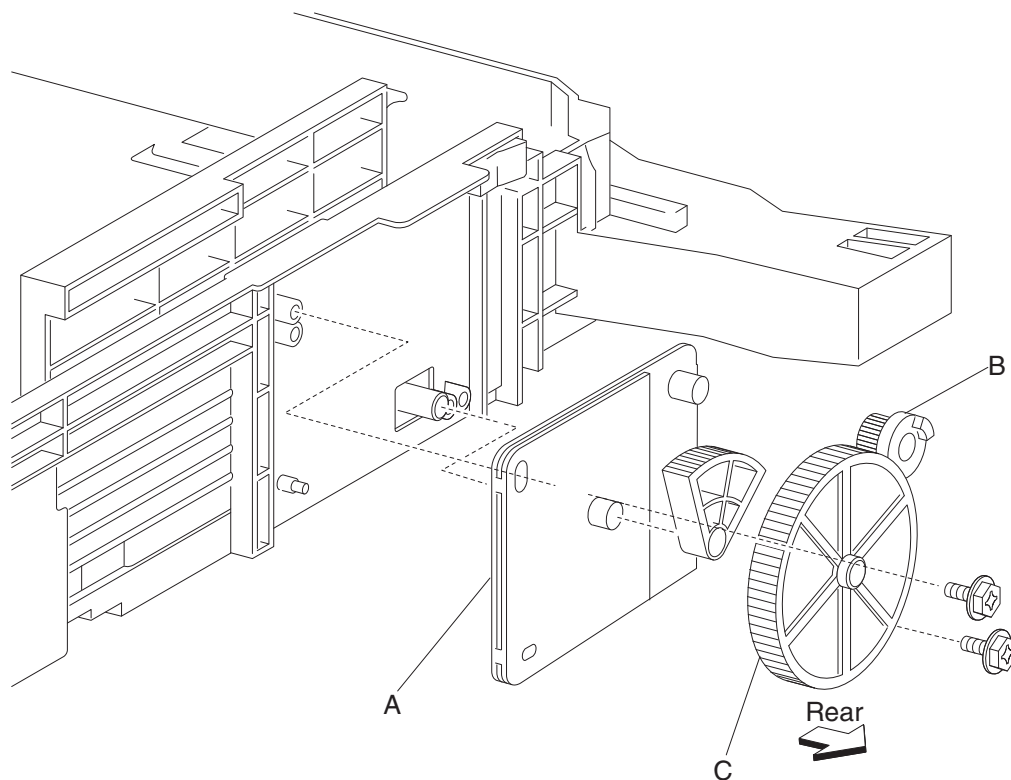
Next



Go Back

Media tray lift gear group removal

1. Remove the media tray from the machine.
2. Remove the two screws securing bracket (A).
3. Remove the bracket (A).
4. Remove the tray lift coupling gear 13 tooth (B) from bracket (A).
5. Remove the tray lift gear 13/60 tooth (C) from bracket (A).



Note: Extra force is required to pull the tray lift coupling gear 13 tooth (B) and the tray lift gear 13/60 tooth (C) from bracket (A).

Previous



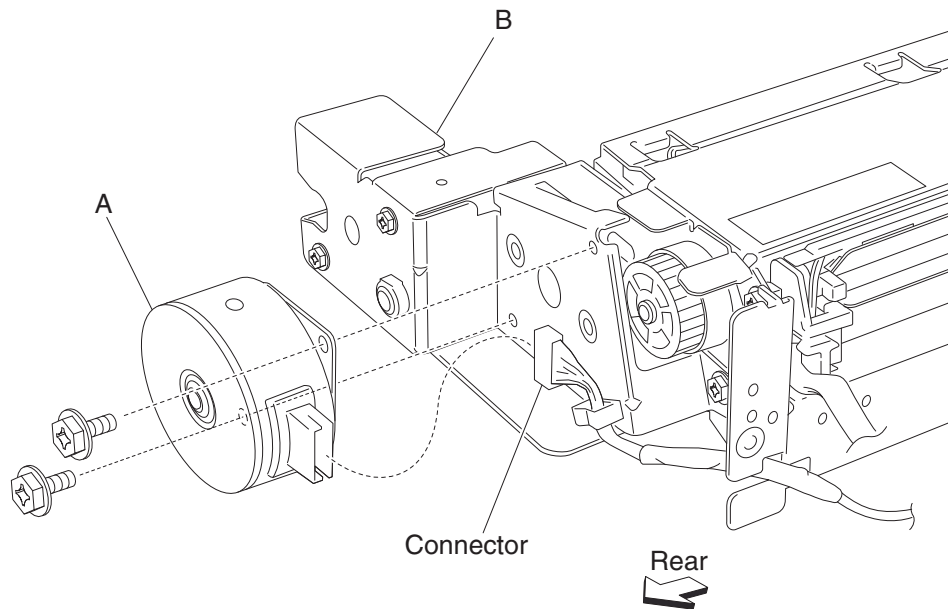
Next



Go Back

Media feed lift motor removal

1. Remove the media feed unit. See **“Media feed unit assembly 1 removal”** on page 4-20 or **“Media feed unit assembly 2 removal”** on page 4-23.
2. Disconnect the harness from the media feed lift motor (A).
3. Remove the two screws securing the media feed lift motor (A) to the media feed unit assembly (B).
4. Remove the media feed lift motor (A).



Previous



Next

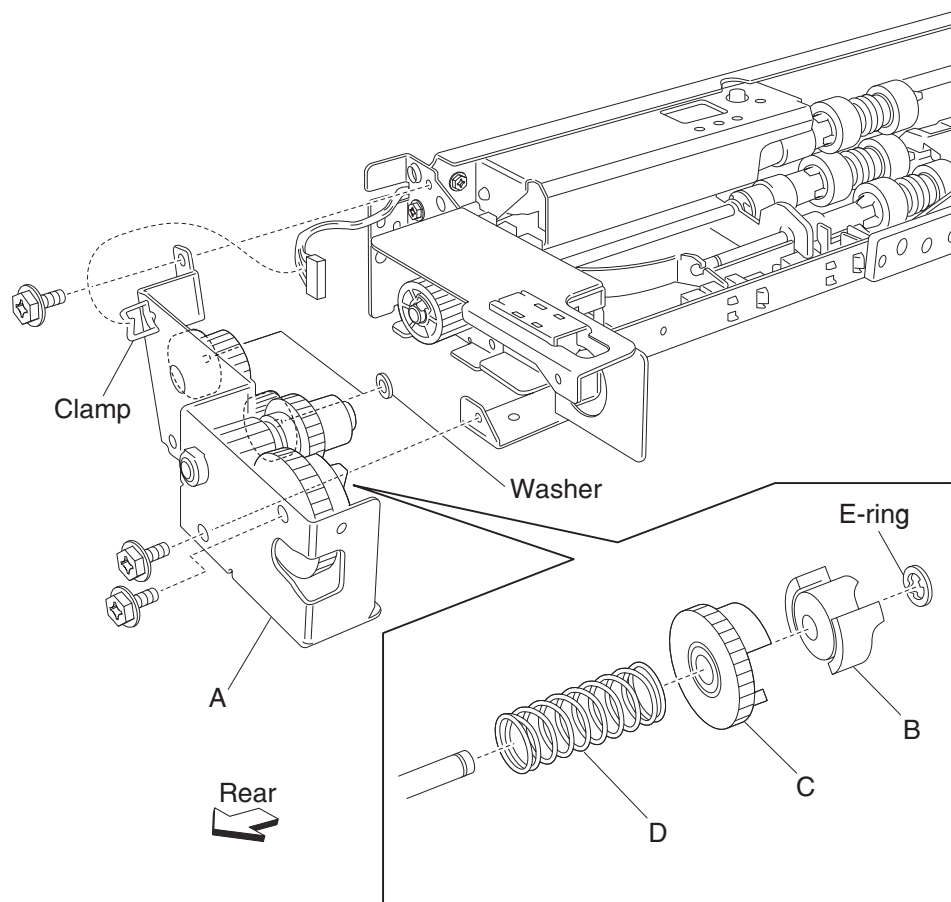


Go Back

Tray lift coupling assembly removal

1. Remove the MPF rear cover. See **“MPF rear cover removal”** on page 4-58.
2. Remove the MPF feed unit assembly. See **“MPF feed unit assembly removal”** on page 4-54.
3. Remove the printer left door. See **“Printer left door assembly removal”** on page 4-75.
4. Remove the vertical drive gear assembly. See **“Vertical drive gear assembly removal”** on page 4-67.
5. Remove the media feed unit assembly. See **“Media feed unit assembly 1 removal”** on page 4-20, or **“Media feed unit assembly 2 removal”** on page 4-23.
6. Remove the harness from bracket (A).
7. Remove three screws securing bracket (A) to the media feed unit.
8. Remove bracket (A).

Note: The gears may become detached from bracket (A).
9. Remove the e-ring with a prying tool securing the tray lift coupling (B) to bracket (A).
10. Remove the tray lift coupling gear 31 tooth (C).
11. Remove the spring (D).



Note: Before reinstalling, ensure all gears and washers attached to bracket (A) are securely installed.

Previous



Next

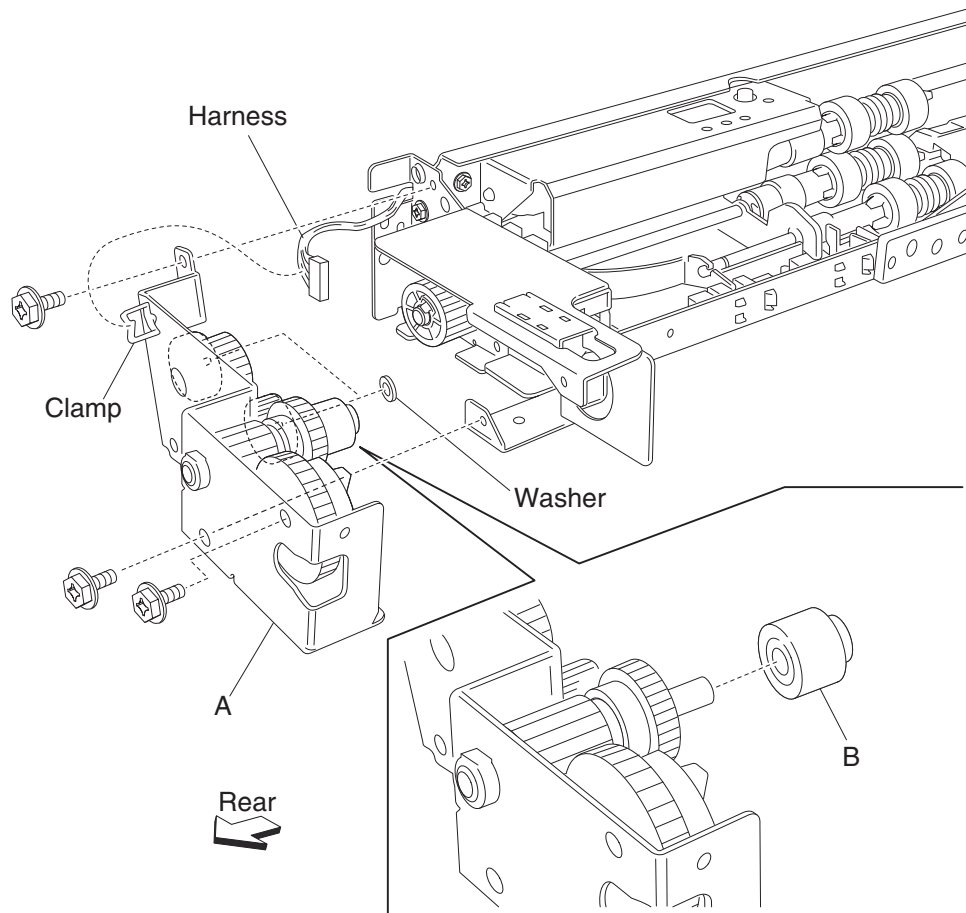


Go Back

Tray lift one way clutch/gear assembly removal

1. Remove the media feed unit assembly. See **“Media feed unit assembly 1 removal”** on page 4-20, or **“Media feed unit assembly 2 removal”** on page 4-23.
2. Remove the harness from the bracket (A).
3. Remove the three screws securing the bracket (A) to the media feed unit assembly.
4. Remove the bracket (A).

Note: The gears may become detached from the bracket (A).
5. Remove the tray lift one-way clutch (B).



Previous

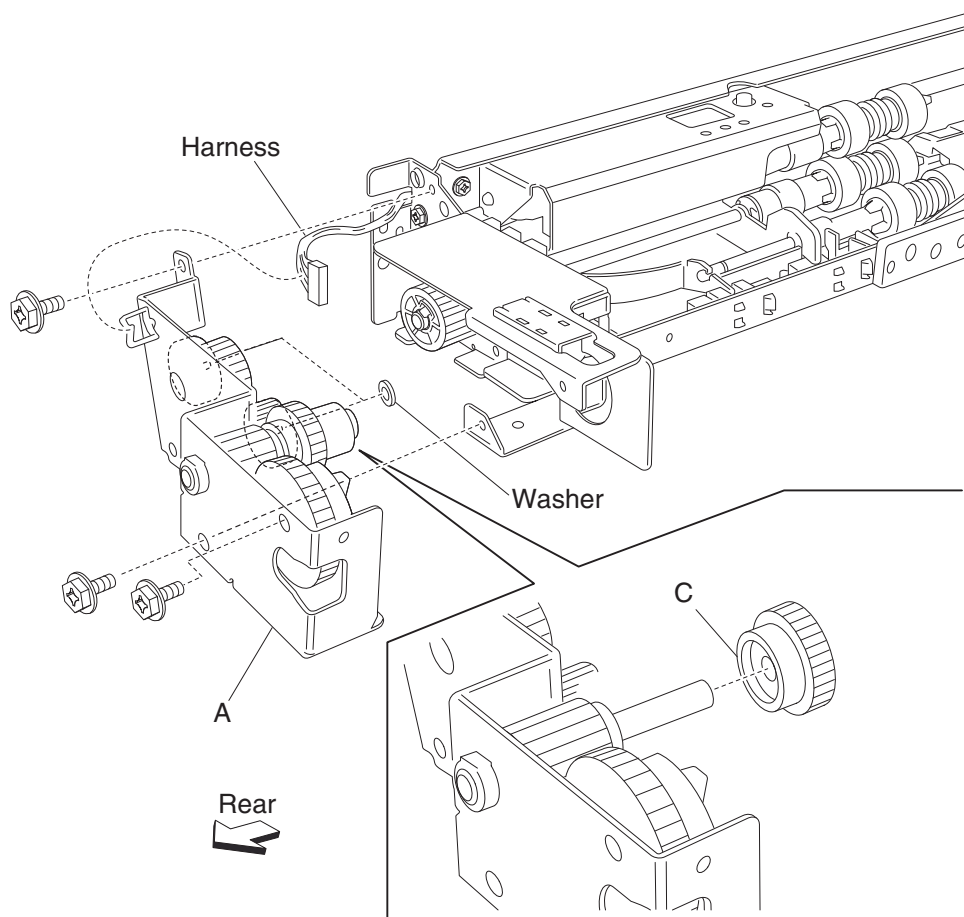


Next



Go Back

6. Remove the tray lift one-way gear 24 tooth (C).



Note: Before reinstalling, ensure all gears and washers are securely attached to the bracket (A).

Previous



Next

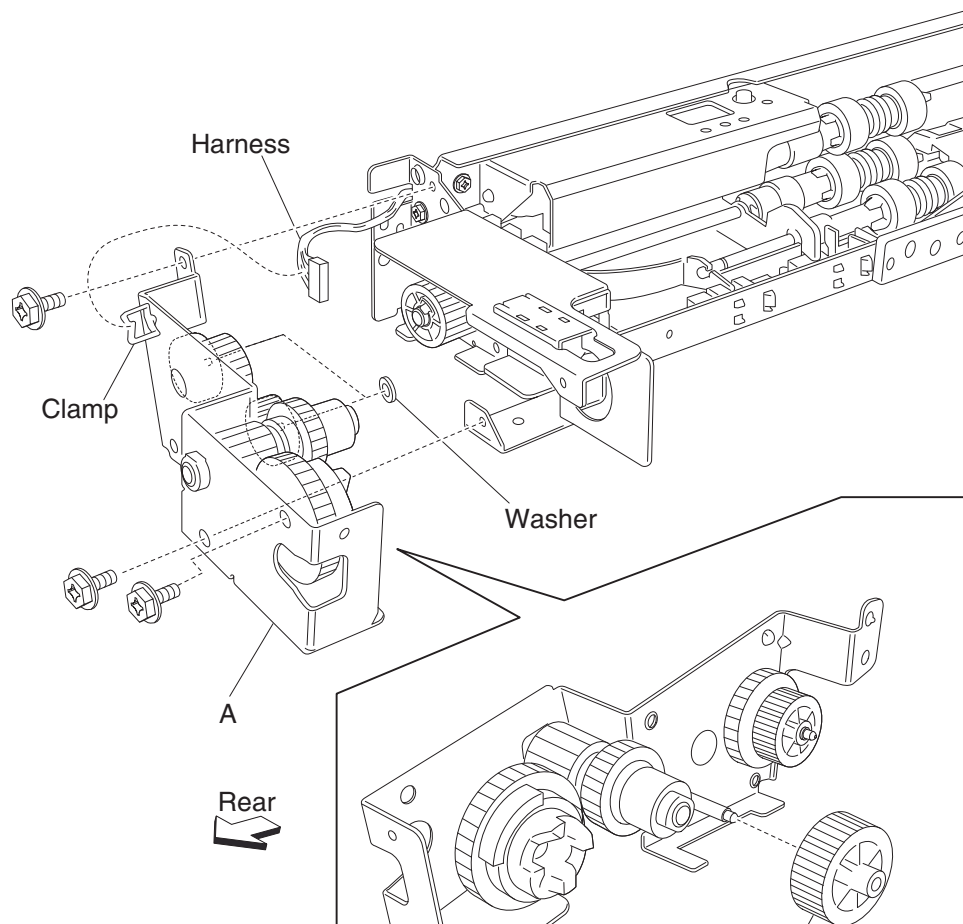


Go Back

Media feed unit drive gear - 13 tooth removal

1. Remove the appropriate media feed unit assembly. See **“Media feed unit assembly 1 removal” on page 4-20**, or **“Media feed unit assembly 2 removal” on page 4-23**.
2. Remove the harness from the bracket (A).
3. Remove the three screws securing the bracket (A) to the media feed unit assembly.
4. Remove the bracket (A).

Note: Gears may become detached from the bracket (A).
5. Remove the tray lift one-way clutch. See **“Tray lift one way clutch/gear assembly removal” on page 4-35**.
6. Remove the tray lift one-way gear 24 tooth. See **“Tray lift one way clutch/gear assembly removal” on page 4-35**.
7. Remove the media feed unit drive gear - 13 tooth (B).



Note: Before reinstalling, ensure all gears and washers are securely attached to the bracket (A).

Previous



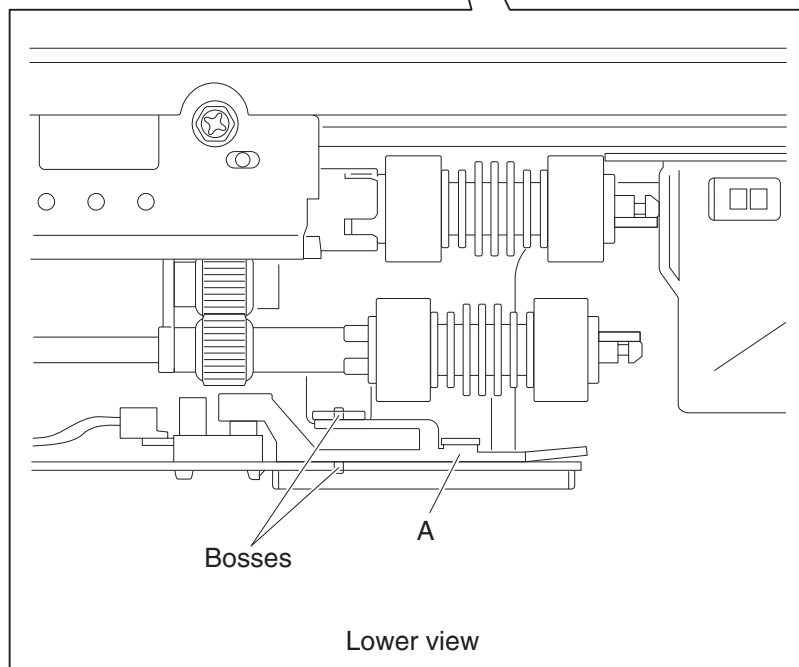
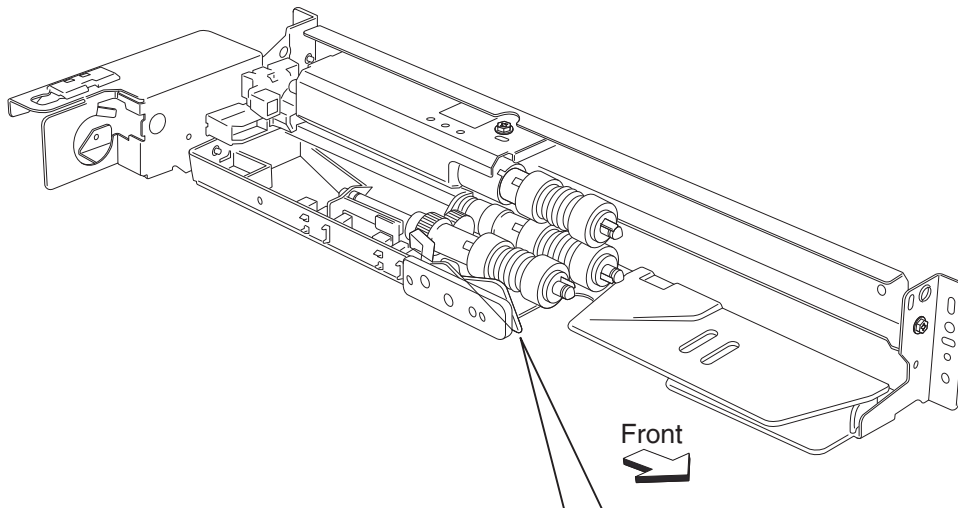
Next



Go Back

Media out actuator removal

1. Remove the appropriate media feed unit assembly. See **“Media feed unit assembly 1 removal” on page 4-20**, or **“Media feed unit assembly 2 removal” on page 4-23**.
2. Remove the two bosses on the media out actuator (A) to the media feed unit assembly.
3. Remove the media out actuator (A).



Previous



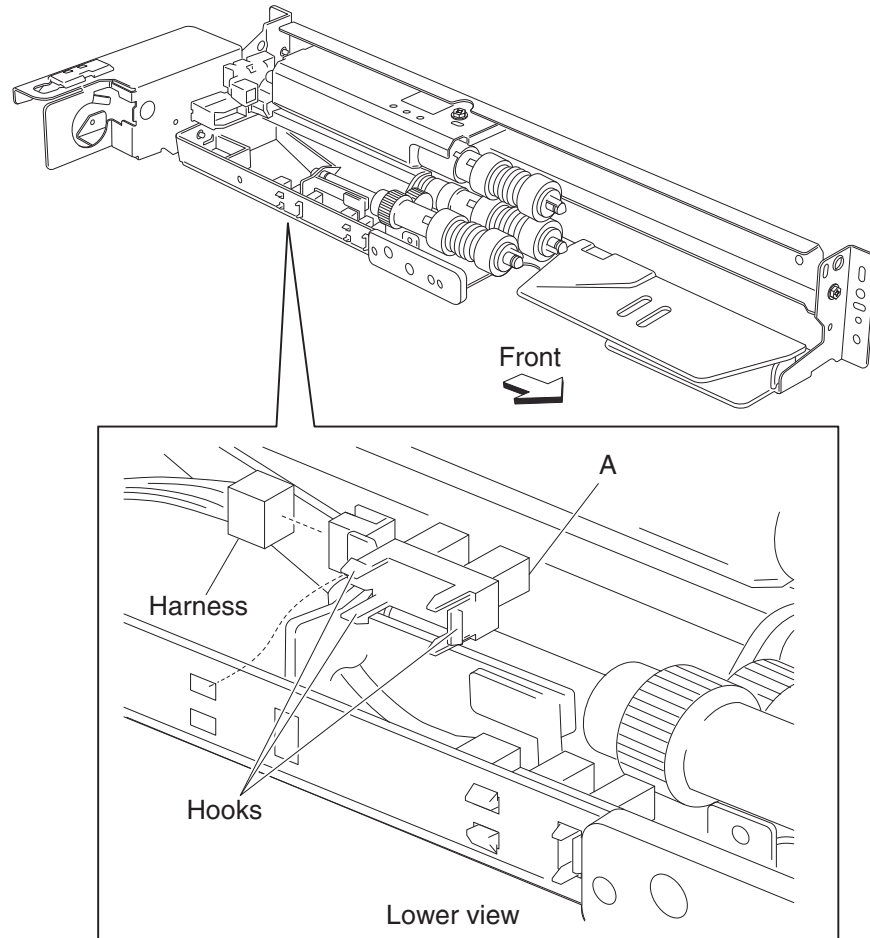
Next



Go Back

Sensor (media level) removal

1. Remove the appropriate media feed unit assembly. See **“Media feed unit assembly 1 removal” on page 4-20**, or **“Media feed unit assembly 2 removal” on page 4-23**.
2. Disconnect the connector from the sensor (media level) (A).
3. Release the hooks securing the sensor (media level) (A) to the media feed unit.
4. Remove the sensor (media level) (A).



Previous



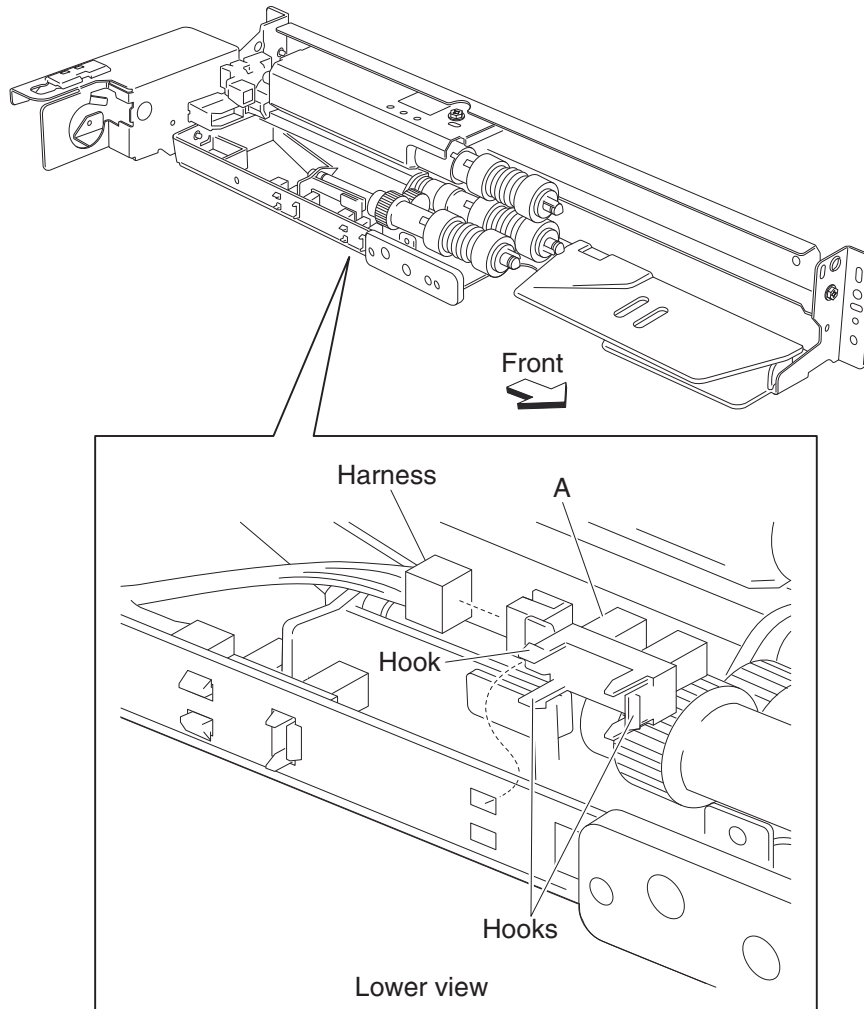
Next



Go Back

Sensor (media out) removal

1. Remove the appropriate media feed unit assembly. See **“Media feed unit assembly 1 removal” on page 4-20**, or **“Media feed unit assembly 2 removal” on page 4-23**.
2. Remove the media out actuator. See **“Media out actuator removal” on page 4-38**.
3. Disconnect the connector from the sensor (media out) (A).
4. Release the hooks securing the sensor (media out) (A) to the media feed unit.
5. Remove the sensor (media out) (A).



Previous



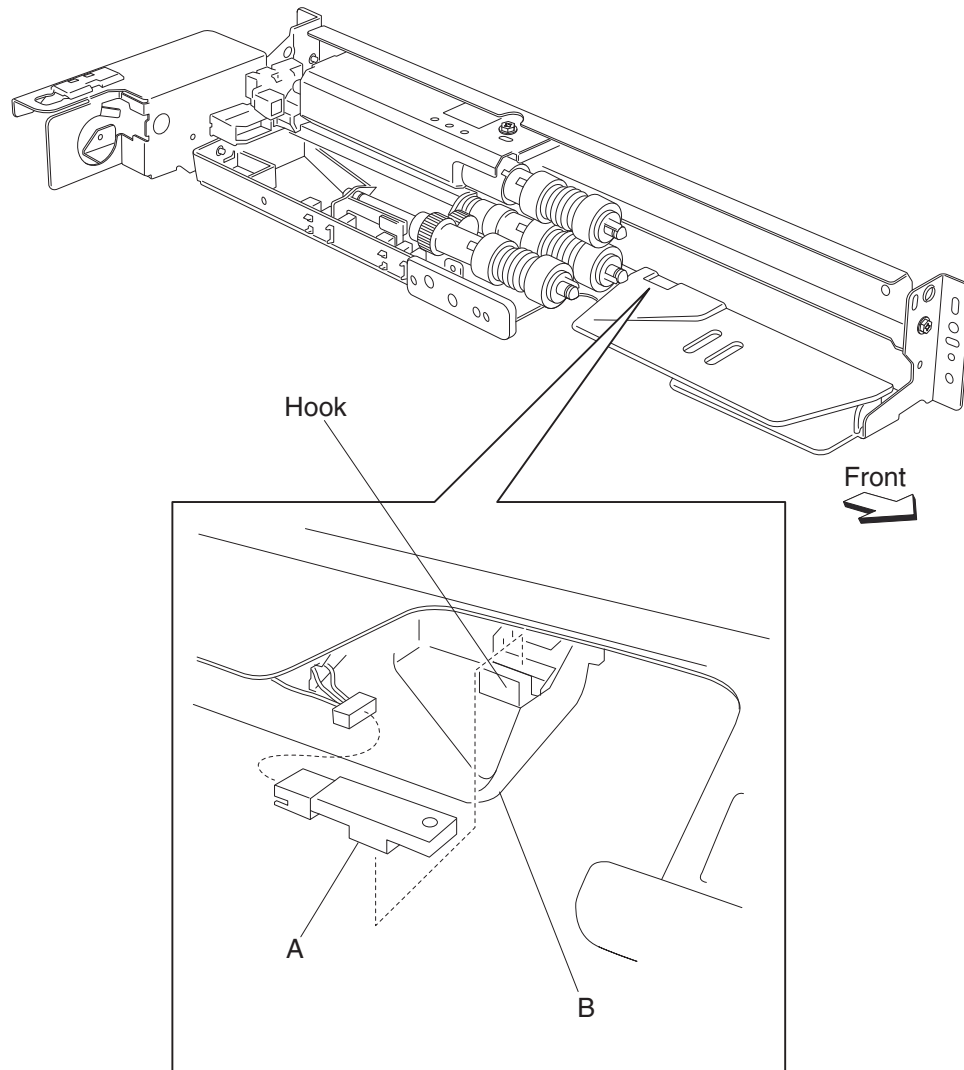
Next



Go Back

Sensor (pre-feed) removal

1. Remove the appropriate media feed unit assembly. See **“Media feed unit assembly 1 removal” on page 4-20**, or **“Media feed unit assembly 2 removal” on page 4-23**.
2. Release the hook securing the sensor (pre-feed) (A).
3. Remove the sensor (pre-feed) (A) from the feed unit front guide (B).
4. Disconnect the connector from the sensor (pre-feed) (A).
5. Remove the sensor (pre-feed) (A).



Previous



Next

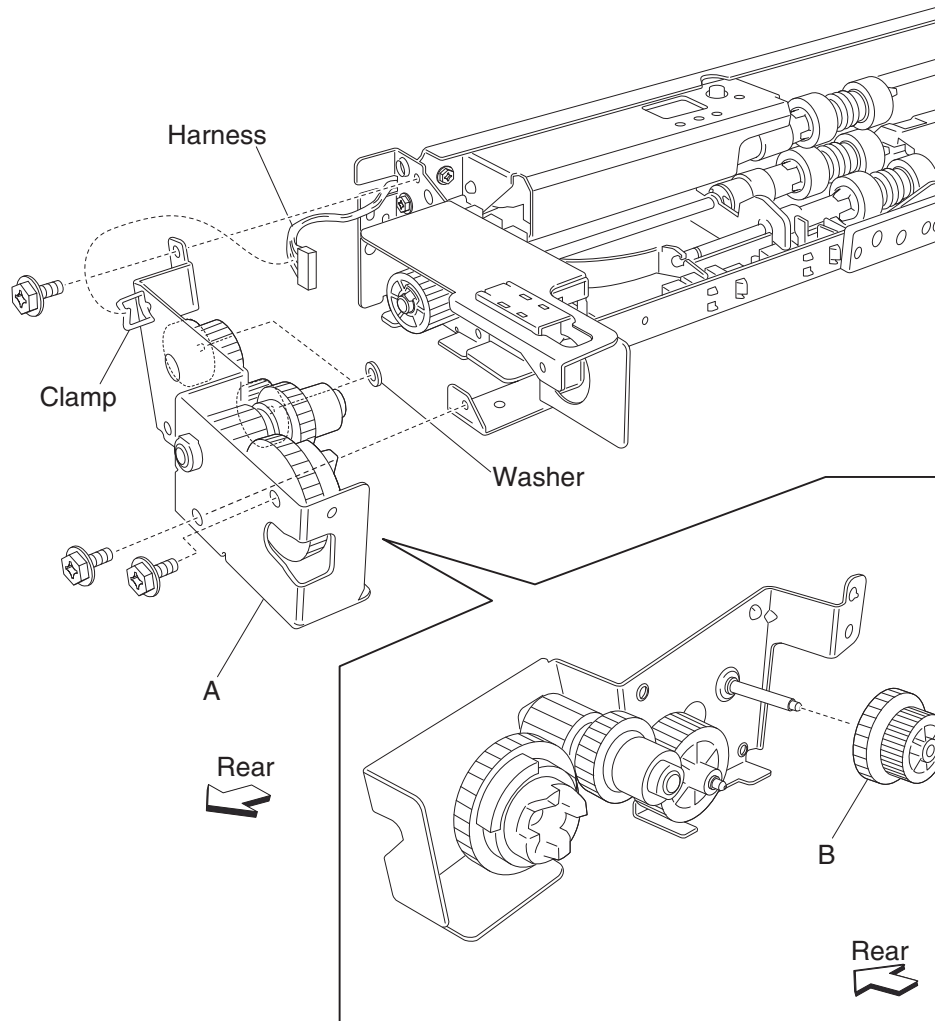


Go Back

Media feed unit drive gear - 28 / 21 tooth removal

1. Remove the appropriate media feed unit assembly. See **“Media feed unit assembly 1 removal” on page 4-20**, or **“Media feed unit assembly 2 removal” on page 4-23**.
2. Remove the harness from the bracket (A).
3. Remove the three screws securing the bracket (A) to the media feed unit assembly.
4. Remove the bracket (A).

Note: The gears may become detached from the bracket (A).
5. Remove the media feed unit drive gear - 28 / 21 tooth (B).



Note: Before reinstalling, ensure all gears and washers are securely attached to the bracket (A).

Previous



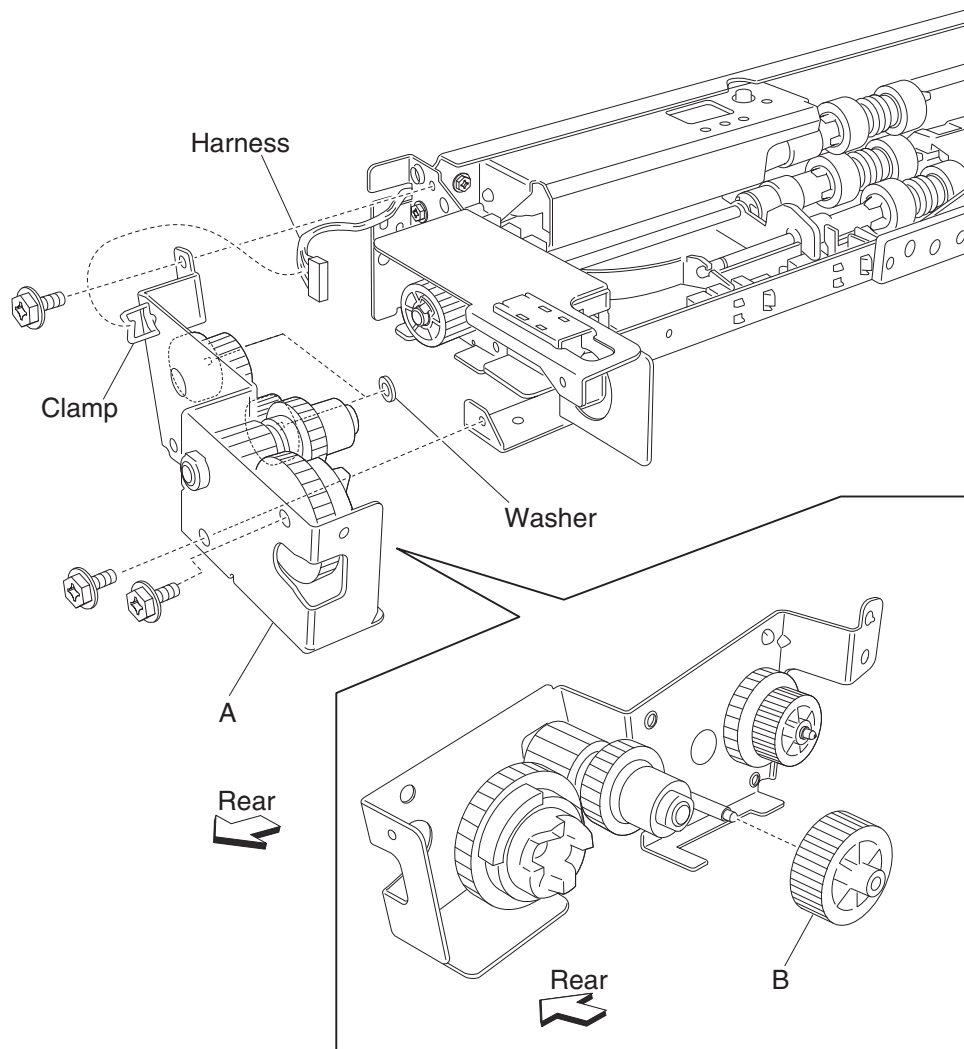
Next



Go Back

Media feed unit drive gear - 29 tooth removal

1. Remove the appropriate media feed unit assembly. See **“Media feed unit assembly 1 removal”** on page 4-20, or **“Media feed unit assembly 2 removal”** on page 4-23.
 2. Remove the harness from the bracket (A).
 3. Remove the three screws securing the bracket (A) to the media feed unit assembly.
 4. Remove the bracket (A).
- Note:** The gears may become detached from the bracket (A).
5. Remove the media feed unit drive gear - 29 tooth (B).



Previous

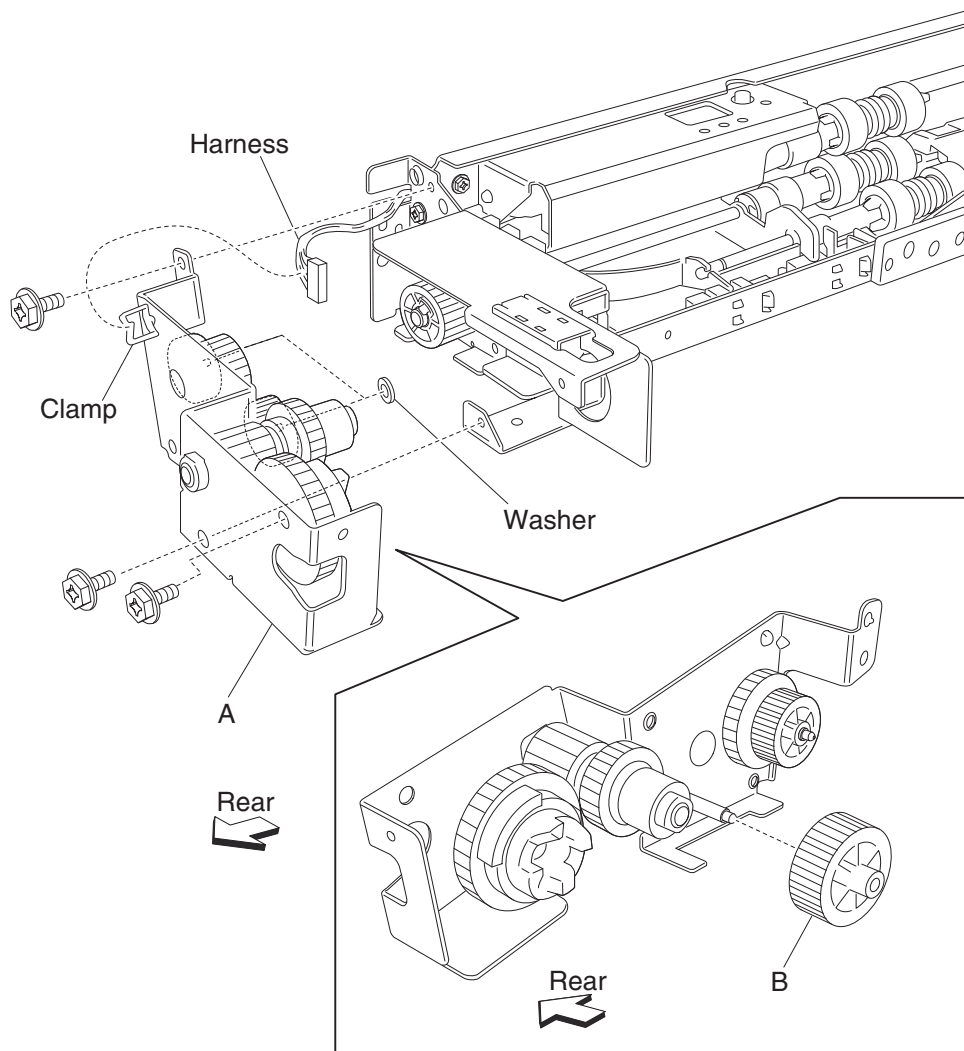


Next



Go Back

6. Remove the media feed unit drive gear - 29 tooth (B).



Note: Before reinstalling, ensure all gears and washers are securely attached to the bracket (A).

Previous



Next

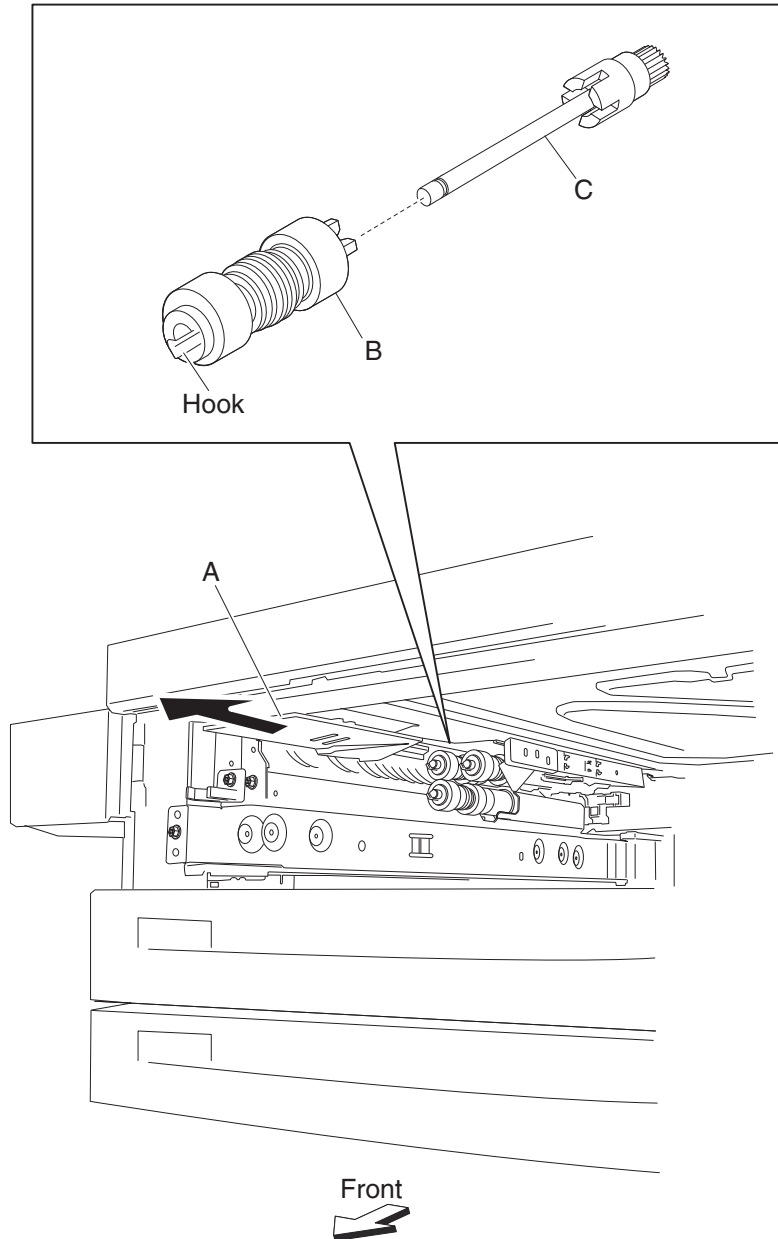


Go Back

Feed roll removal

1. Remove the media tray.
2. Move the feed unit front guide (A) in the direction of the arrow.
3. Release the hook securing the feed roll (B) to the shaft (C).
4. Remove the feed roll (B).

Note: Do not touch the rubber surface of the feed roll (B).



Previous



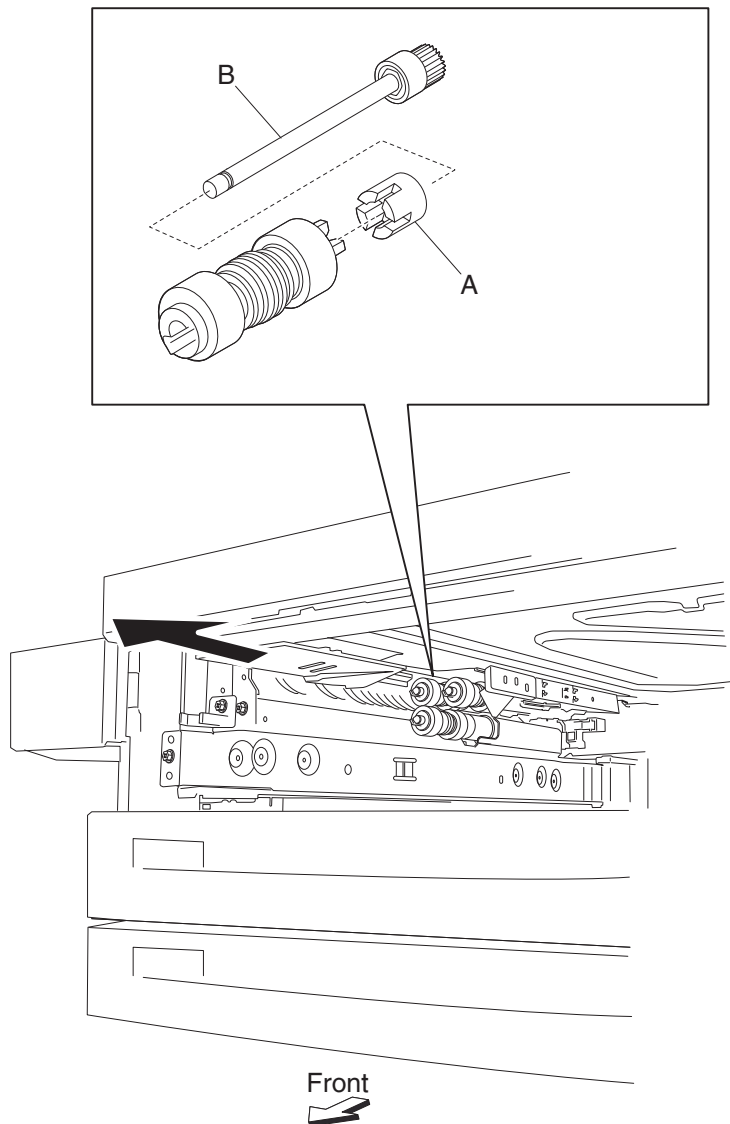
Next



Go Back

Feed roll one way clutch removal

1. Remove the media tray.
2. Remove the feed roll. See **“Feed roll removal”** on page 4-45.
3. Remove the feed roll one way clutch (A) from the shaft (B).



Previous



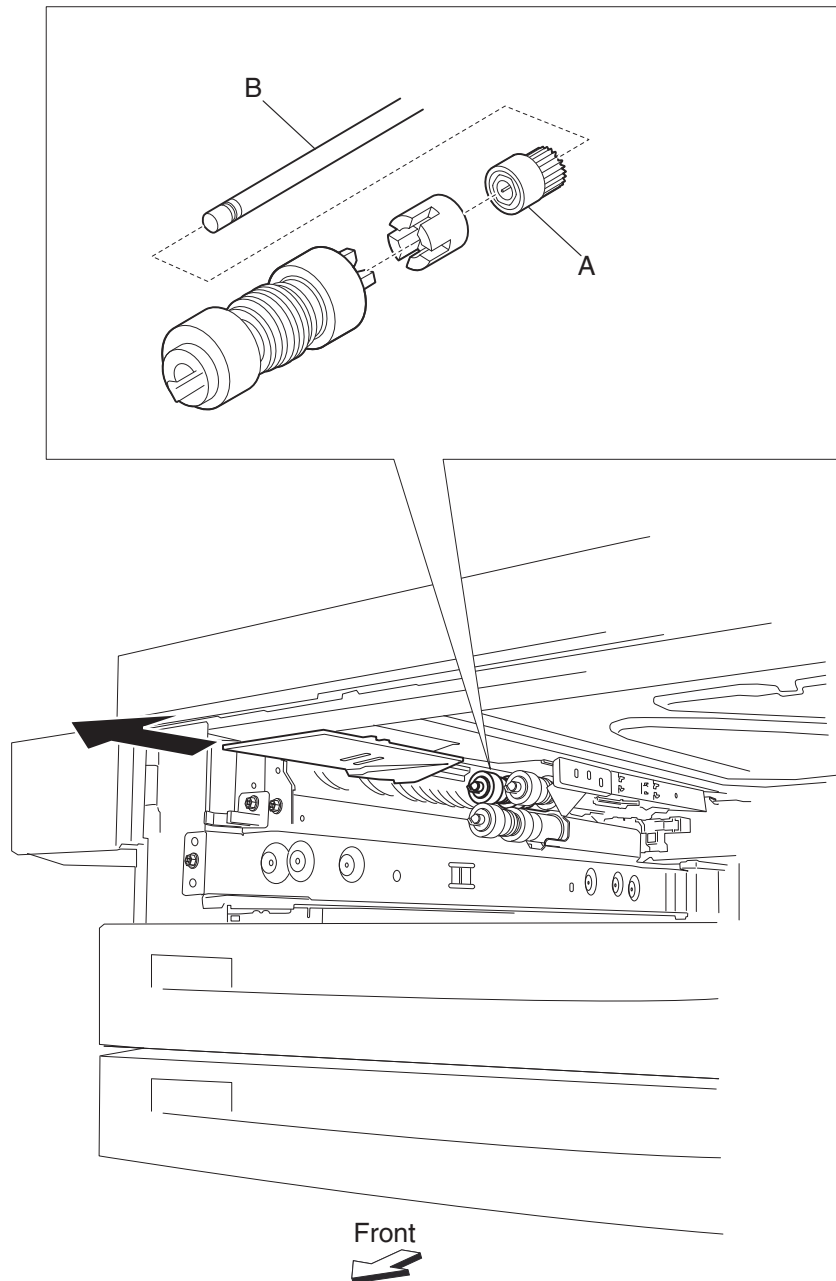
Next



Go Back

Feed roll one way gear 22 tooth removal

1. Remove the media tray.
2. Remove the feed roll. See **"Feed roll removal"** on page 4-45.
3. Remove the feed roll one way clutch. See **"Feed roll one way clutch removal"** on page 4-46.
4. Remove the feed roll one-way gear 22 tooth (A) from the shaft (B).



Previous



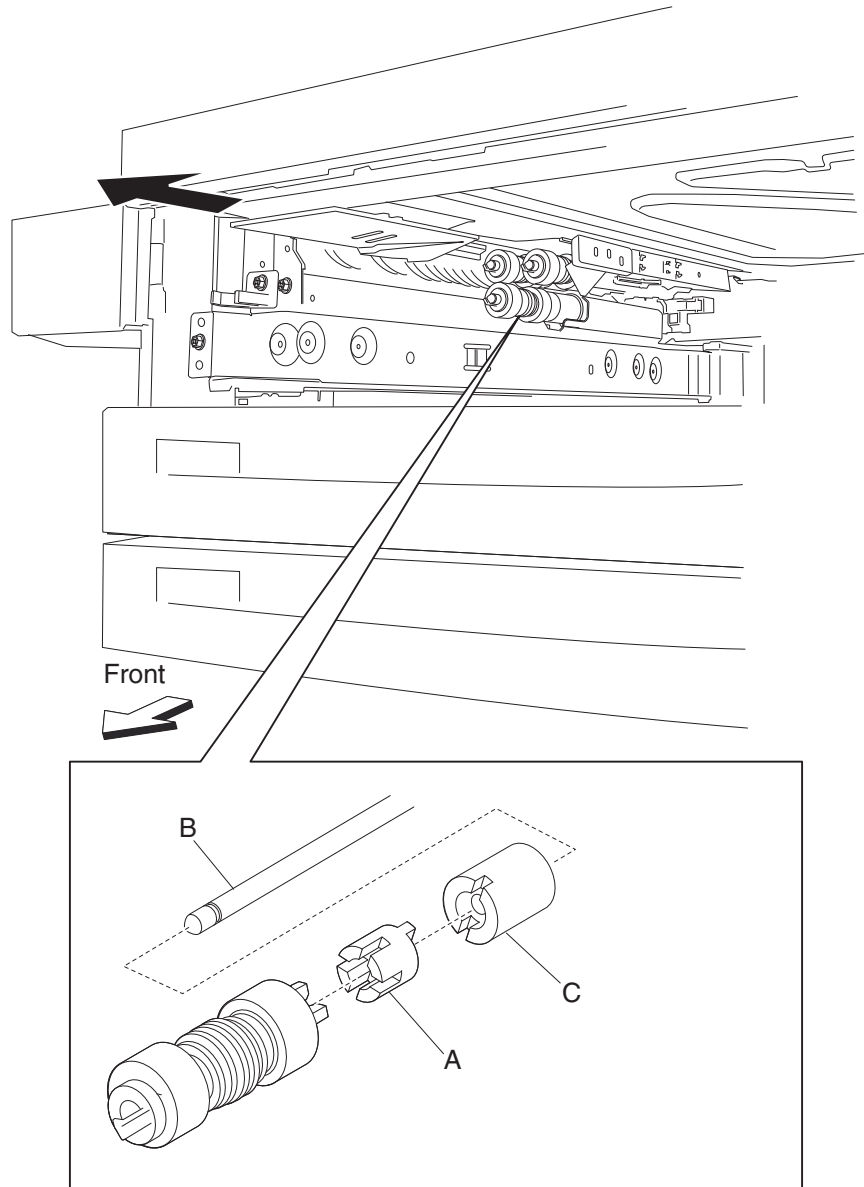
Next



Go Back

Separation roll one way friction clutch removal

1. Remove the media tray.
2. Remove the separation roll. See **“Separation roll removal”** on page 4-49.
3. Remove the separation roll spacer (A) from the shaft (B).
4. Remove the separation roll one-way friction clutch (C) from the shaft (B).



Previous



Next

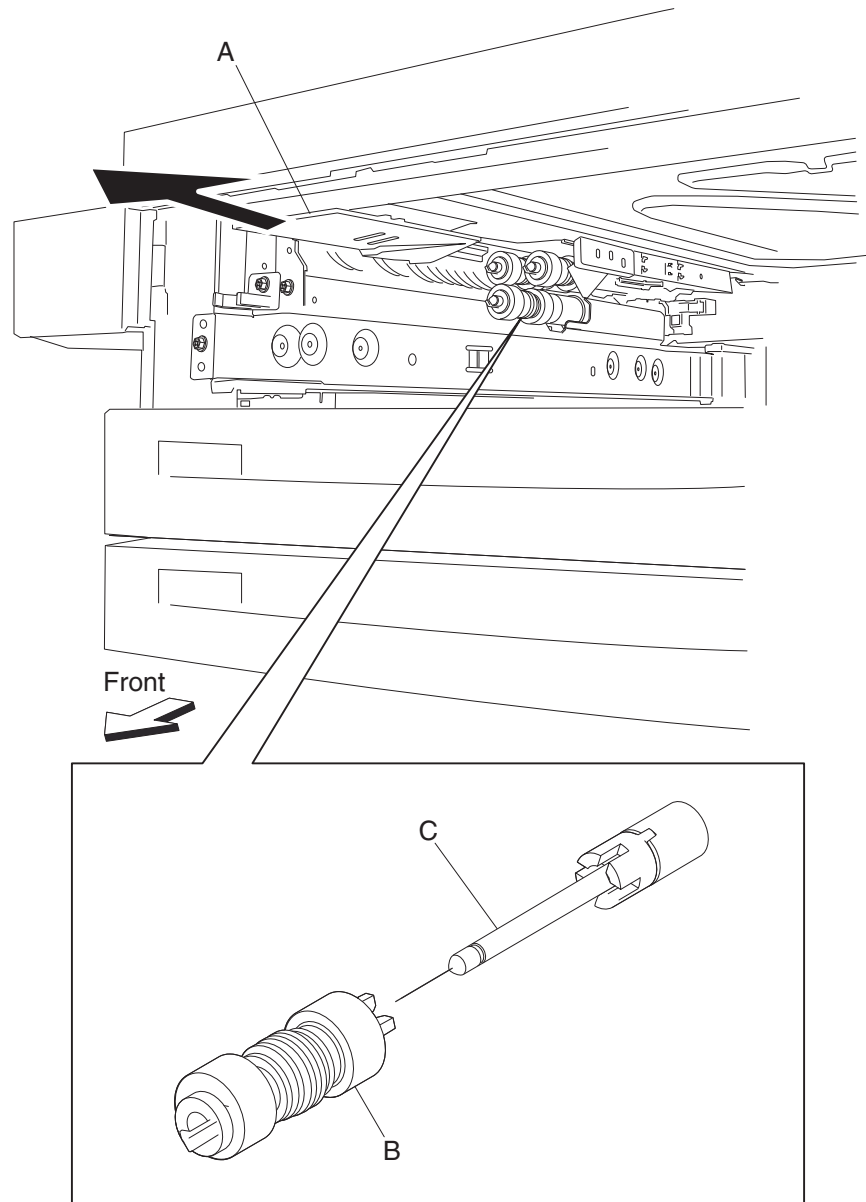


Go Back

Separation roll removal

1. Remove the media tray.
2. Move the feed unit front guide (A) in the direction of the arrow.
3. Release the hook securing the separation roll (B) to the shaft (C).
4. Remove the separation roll (B).

Note: Do not touch the rubber surface of the feed roll (B).



Note: Before reinstalling, do not touch the rubber surface of the separation roll (B).

Previous



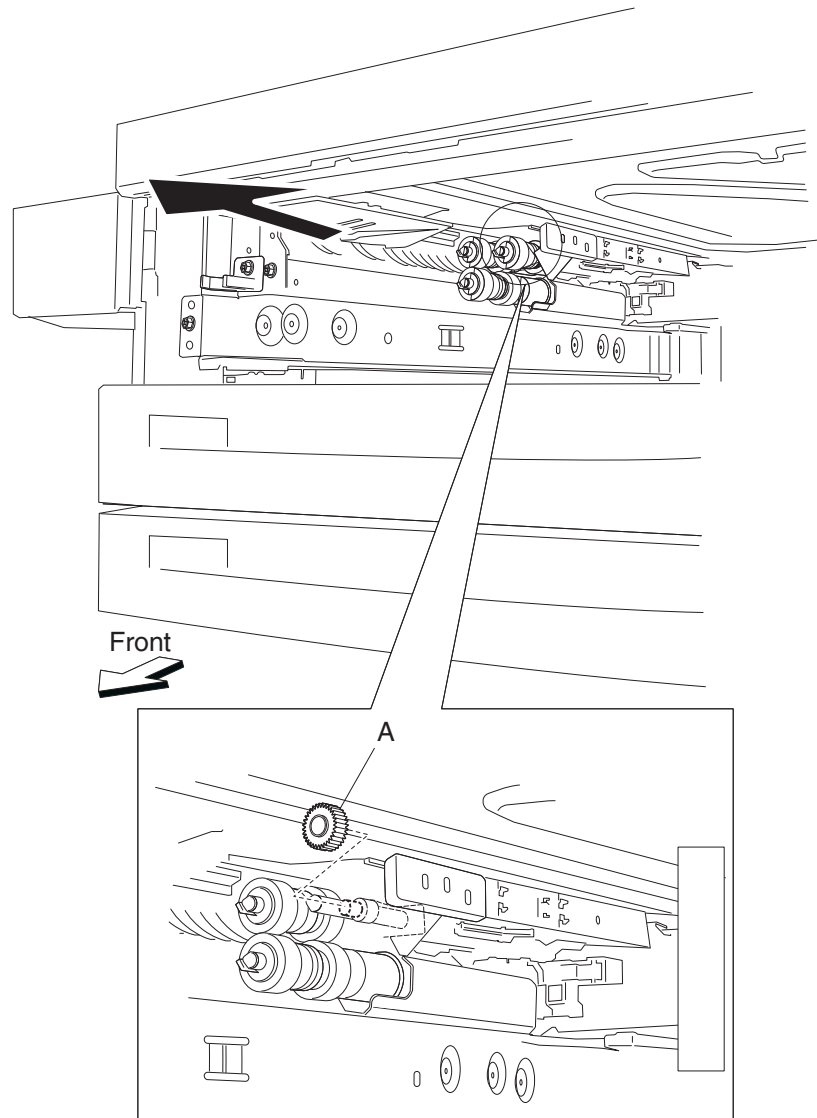
Next



Go Back

Pick roll idler gear 33 tooth removal

1. Remove the media tray.
2. Release the pick roll. See **“Pick roll removal” on page 4-51.**
3. Remove the pick roll drive gear - 25 tooth. See **“Pick roll drive gear 25 tooth removal” on page 4-52.**
4. Remove the pick roll idler gear - 33 tooth (A).



Previous



Next

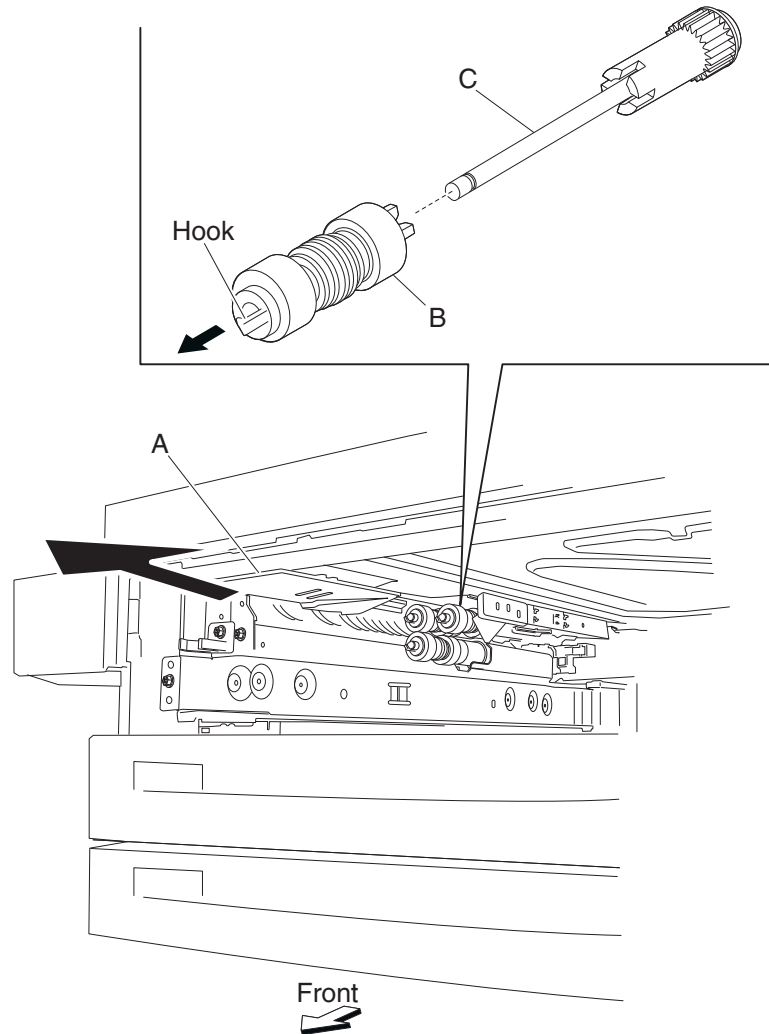


Go Back

Pick roll removal

1. Remove the media tray.
2. Move the media feed unit front guide (A) in the direction of the arrow.
3. Release the hook securing the pick roll (B) to the shaft (C).
4. Remove the pick roll (B).

Note: Do not touch the rubber surface of the feed roll (B).



Note: Before reinstalling, do not touch the rubber surface of the pick roll (B).

Previous



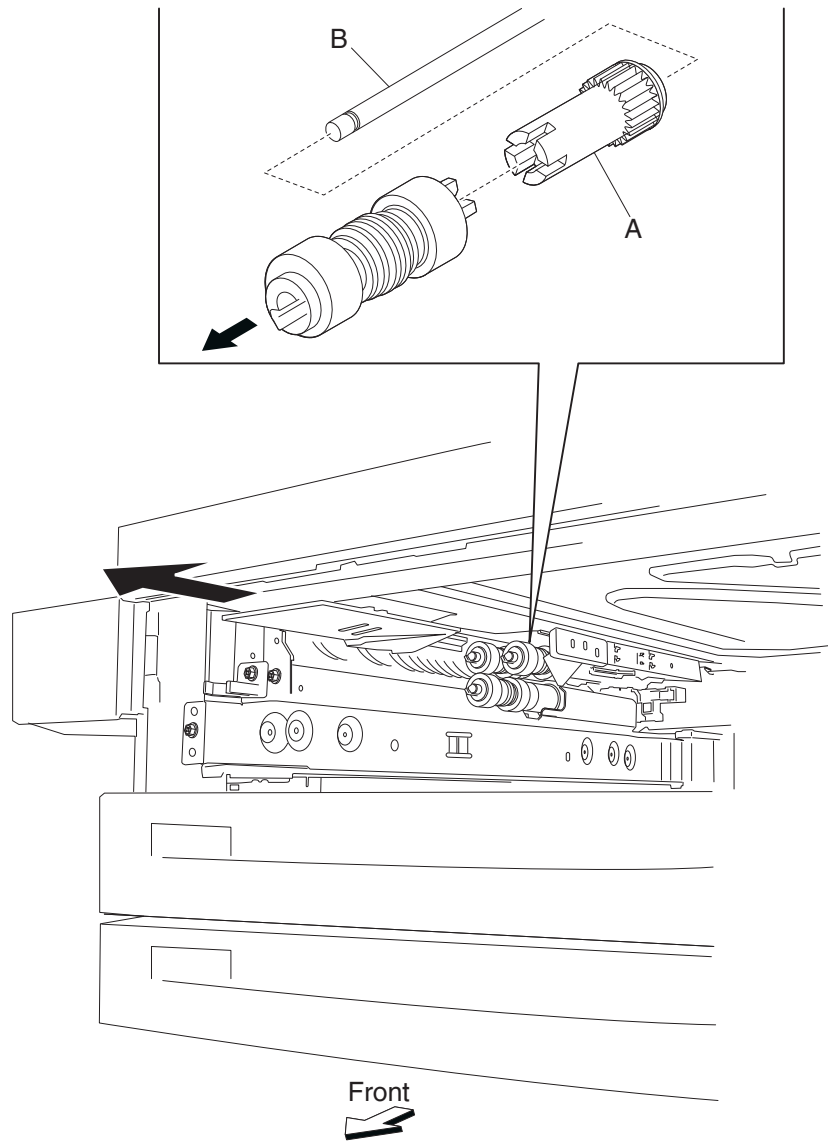
Next



Go Back

Pick roll drive gear 25 tooth removal

1. Remove the media tray.
2. Remove the pick roll. See **“Pick roll removal” on page 4-51**.
3. Remove the pick roll drive gear 25 tooth (A) from the shaft (B).



Previous



Next

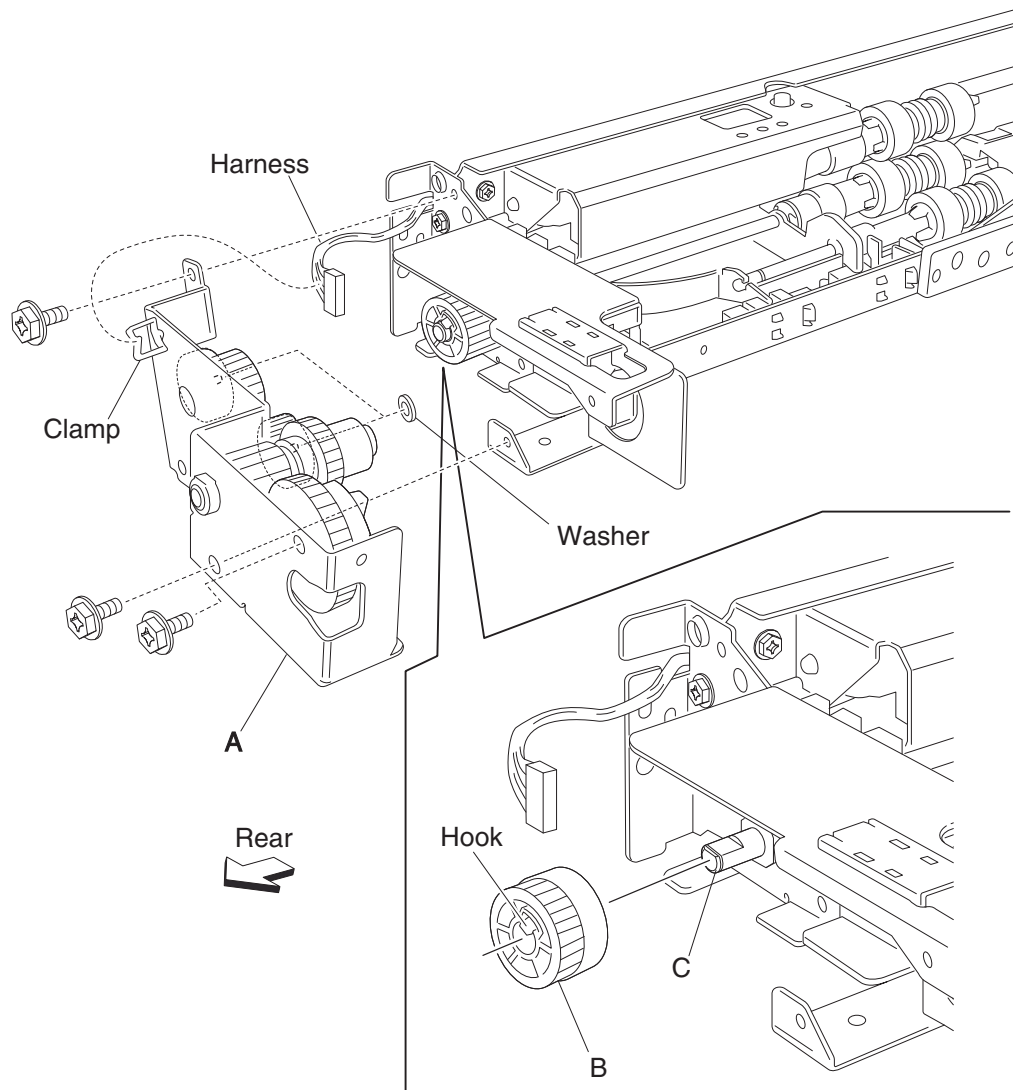


Go Back

Feed unit drive gear 27 tooth removal

1. Remove the media feed unit assembly. See **“Media feed unit assembly 1 removal”** on page 4-20, or **“Media feed unit assembly 2 removal”** on page 4-23.
2. Remove the harness from the bracket (A).
3. Remove the three screws securing the bracket (A) to the media feed unit assembly.
4. Remove the bracket (A).

Note: The gears may become detached from the bracket (A).
5. Remove the hook securing the feed unit drive gear 27 tooth (B) to the shaft (C).
6. Remove the feed unit drive gear 27 tooth (B).



Note: Before reinstalling, ensure all gears and washers are securely attached to the bracket (A).

Previous



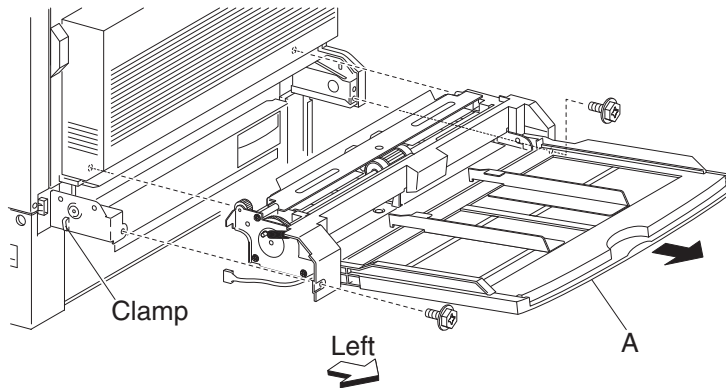
Next



Go Back

MPF feed unit assembly removal

1. Remove the MPF rear cover. **“MPF rear cover removal” on page 4-58.**
2. Disconnect the connector.
3. Release the harness from the clamp.
4. Remove the two screws securing the MPF feed unit assembly (A).
5. Remove the MPF feed unit assembly (A).



Note: Before reinstalling, place the harness along the slot on the left of the MPF feed unit assembly (A) so it does not pinch the harness between the feed unit.

Previous



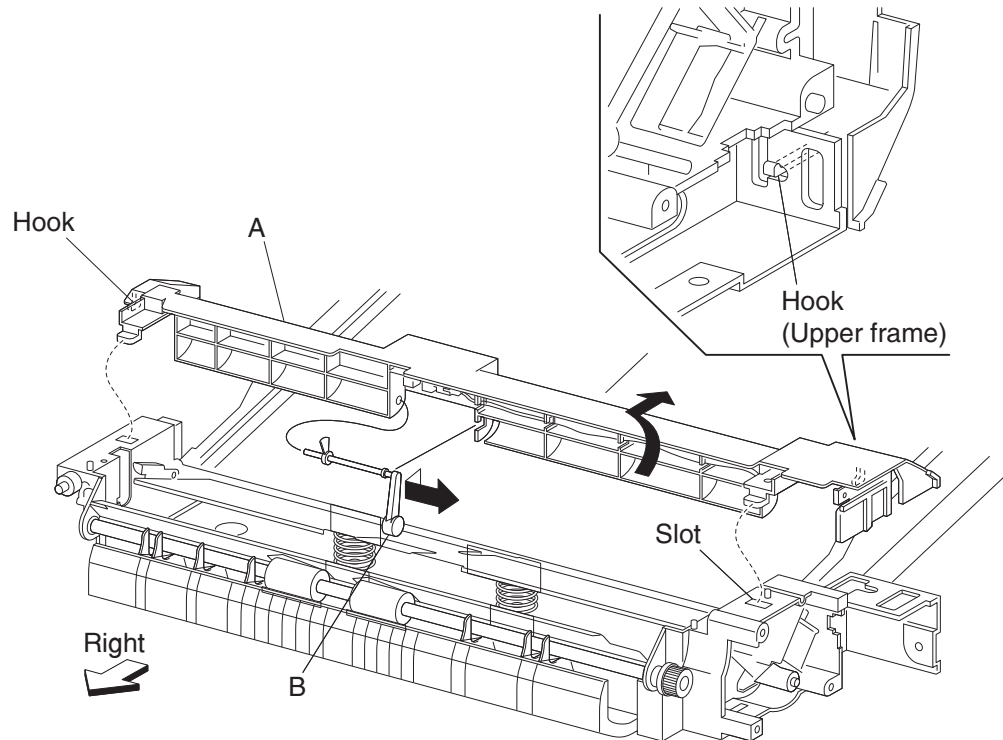
Next



Go Back

MPF media out actuator and upper frame removal

1. Remove the MPF rear cover. See **"MPF rear cover removal"** on page 4-58.
2. Remove the MPF feed unit assembly. See **"MPF feed unit assembly removal"** on page 4-54.
3. Remove the two hooks securing the upper frame (A).
4. Remove the upper frame (A) by moving it up and out in the direction of the arrow.
5. Remove the MPF media out actuator (B) by prying it outward with a flat tip screwdriver, then slide it out in the direction of the arrow.



Previous



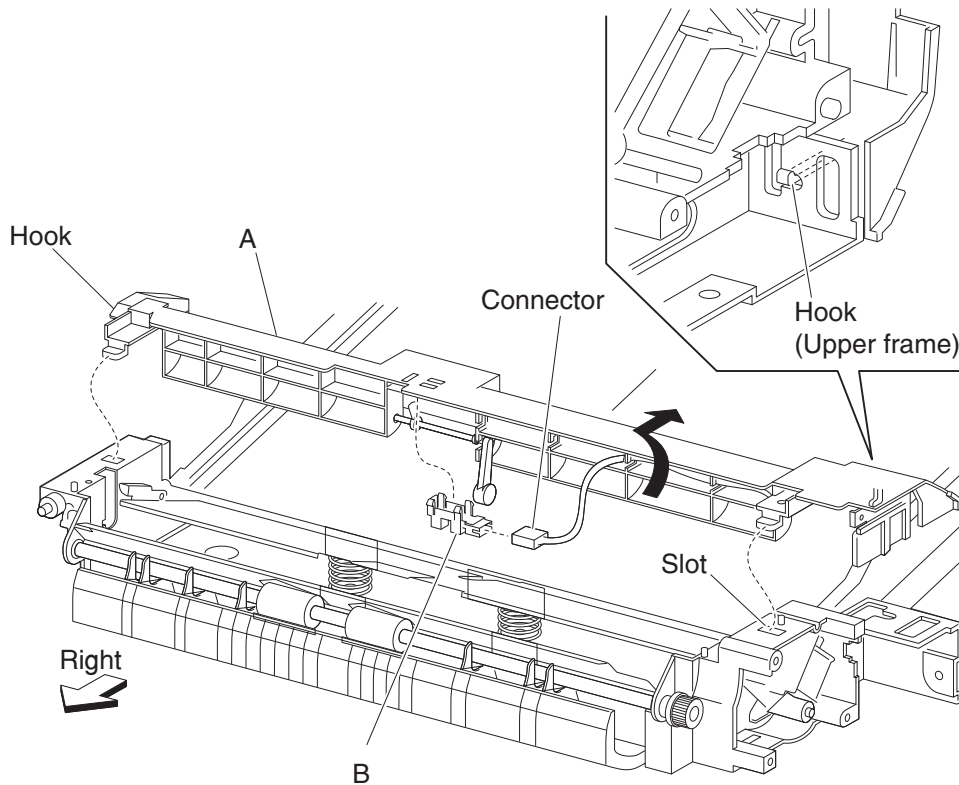
Next



Go Back

Sensor (MPF media out) removal

1. Remove the MPF rear cover. See **“MPF rear cover removal”** on page 4-58.
2. Remove the MPF feed unit assembly. See **“MPF feed unit assembly removal”** on page 4-54.
3. Remove the two hooks securing the upper frame (A) to the MPF feed unit assembly.
4. Remove the upper frame (A) by moving it up and out in the direction of the arrow.
5. Disconnect the connector from the sensor (MPF media out) (B).
6. Release the hooks securing the sensor (MPF media out) (B) in the upper frame (A).
7. Remove the sensor (MPF media out) (B).



Previous



Next



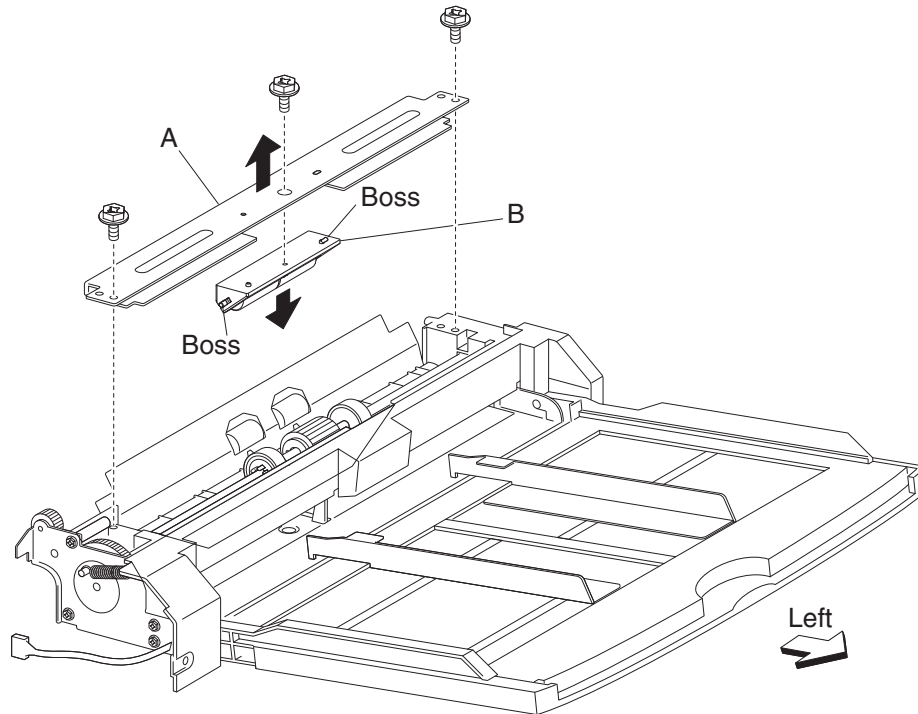
Go Back

MPF transport pinch roll assembly removal

1. Remove the MPF rear cover. See **“MPF rear cover removal”** on page 4-58.
2. Remove the MPF feed unit assembly. See **“MPF feed unit assembly removal”** on page 4-54.
3. Remove the two end screws securing the upper bracket (A) to the MPF feed unit assembly.
4. Remove the upper bracket (A).
5. Remove the one center screw securing the MPF transport pinch roll assembly (B) to the upper bracket (A).
6. Release the bosses securing the MPF transport pinch roll assembly (B) to the upper bracket.
7. Remove the MPF transport pinch roll assembly (B) by moving it in the direction of the arrow.

Note: Do not touch the plastic surface of the MPF pinch roll.

Note: Bushings and springs may become detached.



Note: Before reinstalling, ensure you do not touch the plastic roll surface.

Previous



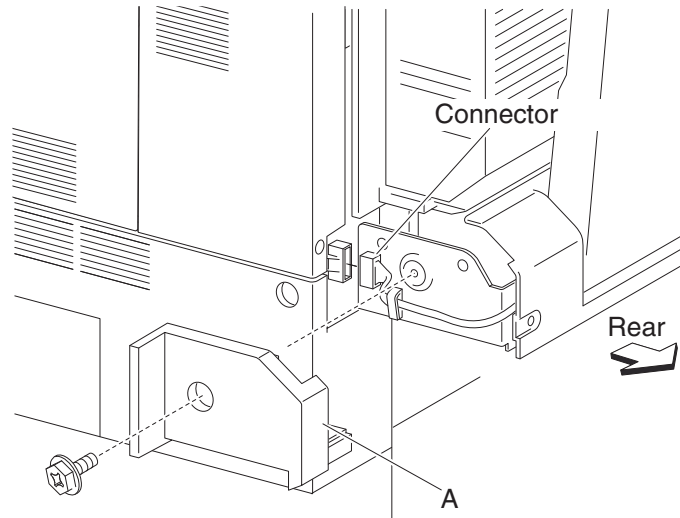
Next



Go Back

MPF rear cover removal

1. Remove the one screw securing the MPF rear cover (A).
2. Remove the MPF rear cover (A).



Previous



Next



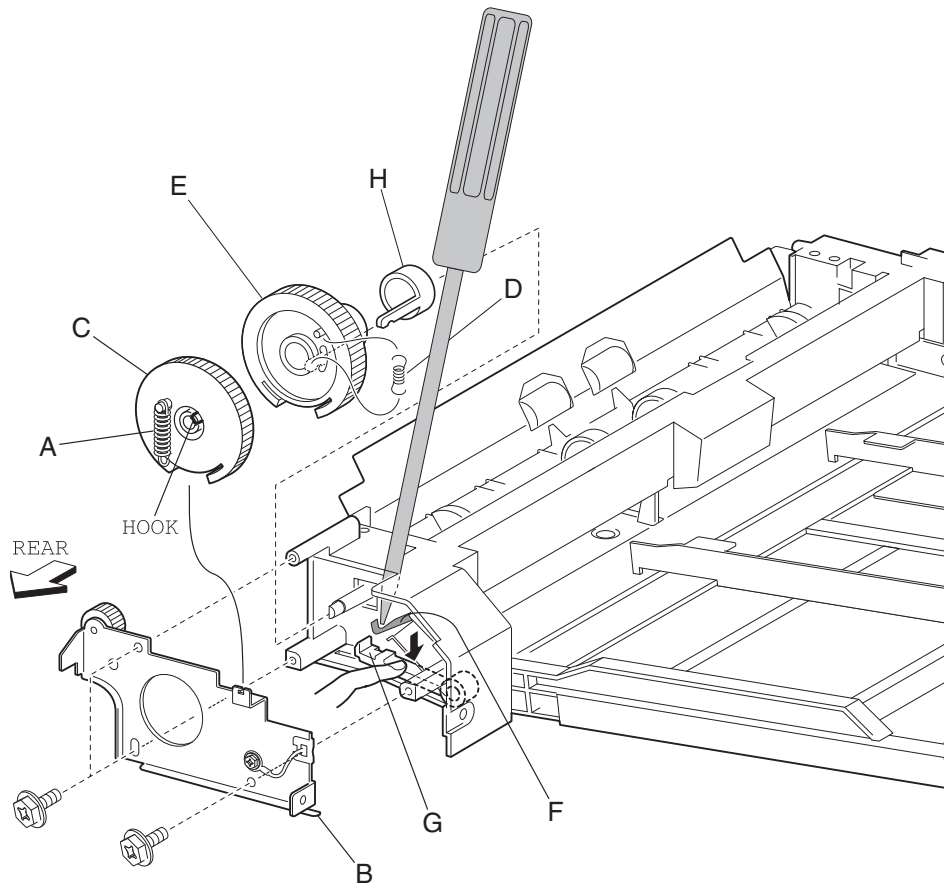
Go Back

MPF feed drive gear group removal

1. Remove the MPF rear cover. See **“MPF rear cover removal”** on page 4-58.
2. Remove the MPF feed unit assembly. See **“MPF feed unit assembly removal”** on page 4-54.
3. Remove the pickup spring (A) from the idler gear bracket assembly (B).
Note: Leave the pickup spring (A) attached to the MPF feed drive gear pickup (C).
4. Remove the three screws securing the idler gear bracket assembly (B) to the MPF feed unit assembly.
5. Remove the idler gear bracket assembly (B).
6. Release the hooks securing the MPF feed drive gear pickup (C) to the shaft.
7. Remove the MPF feed drive gear pickup and pickup spring (A and C).

Warning: Depress the pick solenoid lever (F) and the pick lever (G) while performing step 8, or damage may occur.

8. Remove the small spring (D) from the drive cam gear (E).



9. Remove the drive gear cam (E) and the drive stopper (H).

Warning: Before reinstalling, depress the pick solenoid lever and the pick lever while replacing the drive gear cam (E) and the drive stopper (H), or damage may occur.

Previous



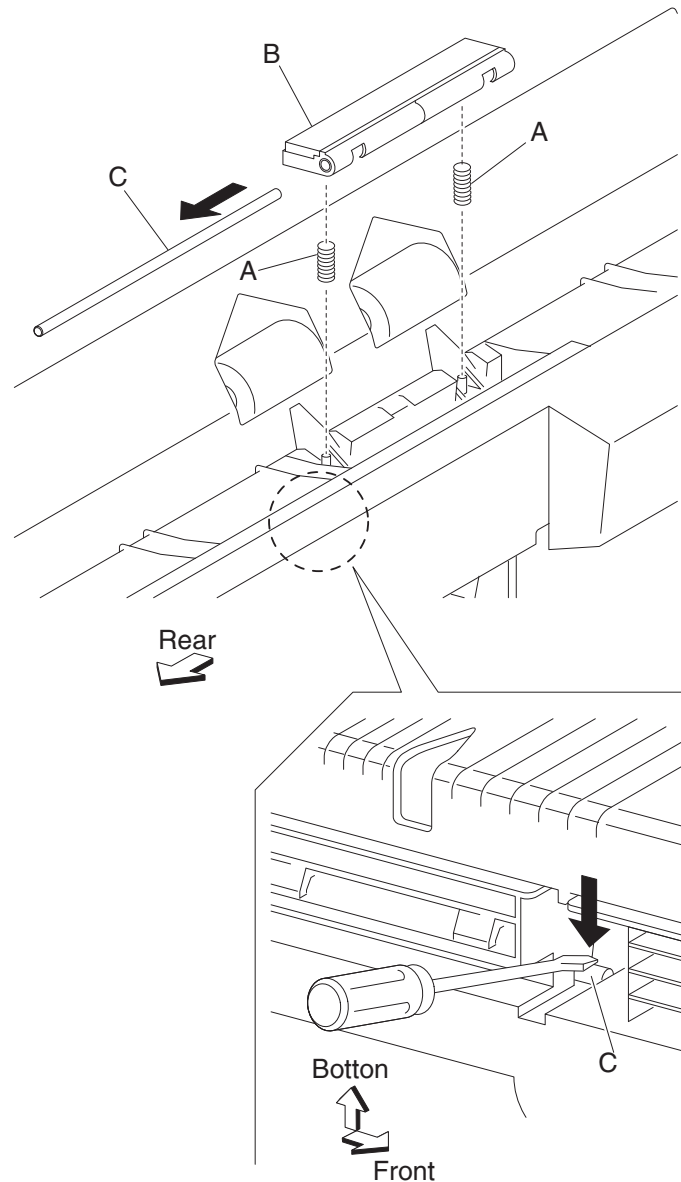
Next



Go Back

MPF pressure pad removal

1. Remove the MPF rear cover. See **“MPF rear cover removal”** on page 4-58.
2. Remove the MPF feed unit assembly. See **“MPF feed unit assembly removal”** on page 4-54.
3. Remove the MPF pick roll. See **“MPF pick roll removal”** on page 4-64.
4. Remove the MPF feed shaft assembly. See **“MPF feed shaft assembly removal”** on page 4-63.
5. Remove the two springs (A) under the pressure pad (B).
6. Turn the MPF upside down, and pry the shaft out with a flat blade screwdriver.
7. Remove the separation pad (B) and the shaft (C) by moving it in the direction of the arrow from the backside.



Note: Before reinstalling, ensure the two springs (A) remain in the proper position during reassembly of the feed shaft assembly and MPF feed roll.

Previous



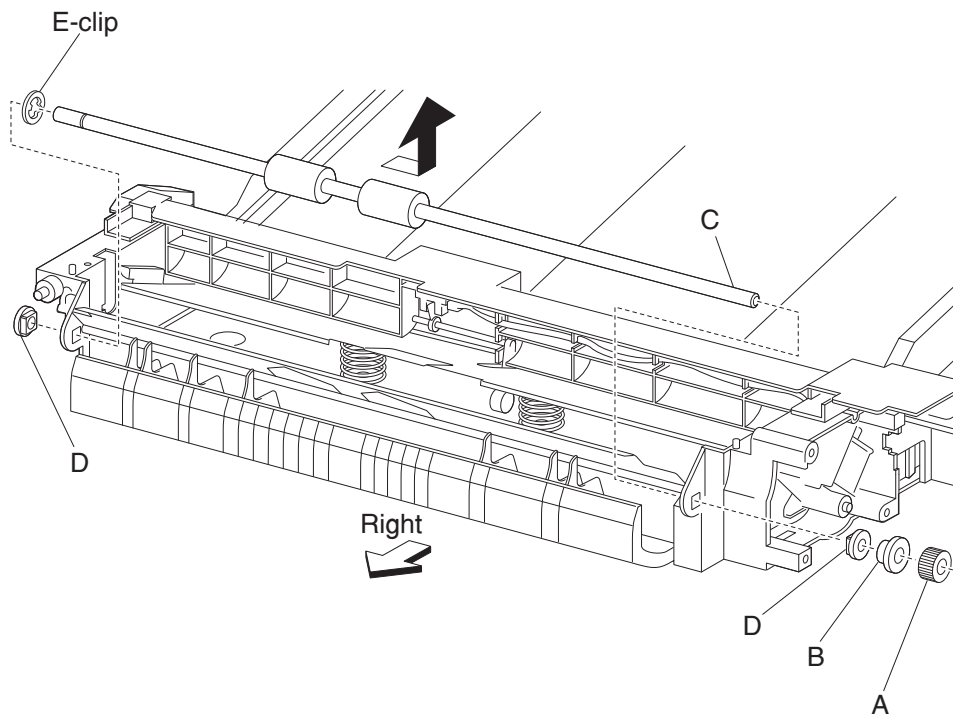
Next



Go Back

MPF transport roll assembly removal

1. Remove the MPF rear cover. See **"MPF rear cover removal"** on page 4-58.
2. Remove the MPF feed unit assembly. See **"MPF feed unit assembly removal"** on page 4-54.
3. Remove the two end screws securing the upper bracket to the MPF feed unit assembly.
4. Remove the upper bracket.
5. Remove the MPF transport gear - 18 tooth (A).
Note: The MPF transport gear - 18 tooth will be tight and requires extra force to remove.
6. Remove the transport shaft collar (B).
7. Remove the e-clip with a prying tool securing the MPF transport roll assembly (C) to the MPF feed unit assembly.
8. Remove the two bushings 8 mm (D).
9. Remove the MPF transport roll assembly by moving it rightward then upward in the direction of the arrow.
Note: When removing the MPF transport roll assembly (C), do not touch the rubber surface.



Note: Before reinstalling the MPF transport roll assembly (C), do not touch the rubber surface.

Previous



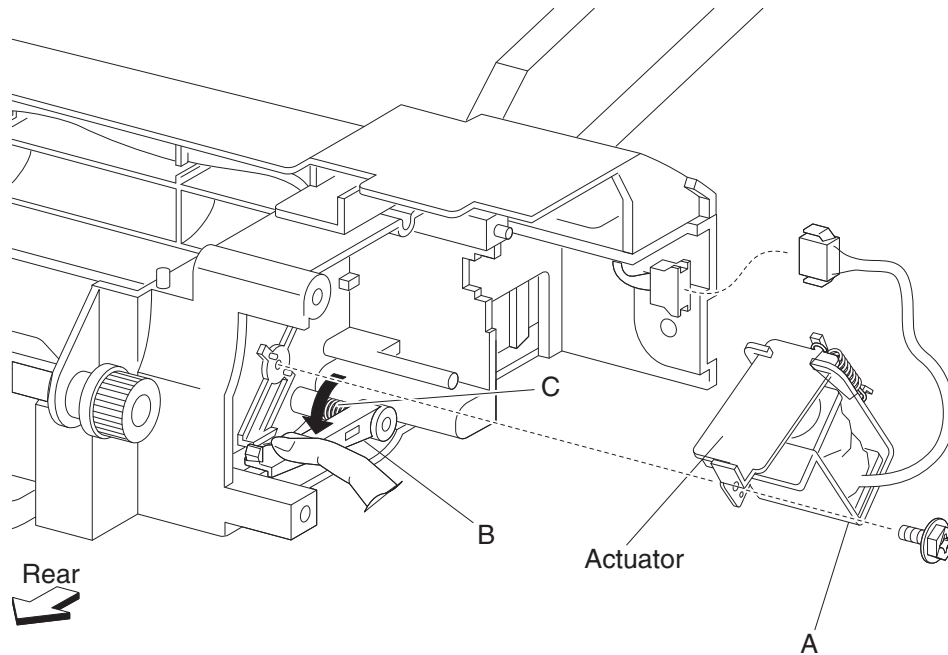
Next



Go Back

MPF pick solenoid / pick lever removal

1. Remove the MPF rear cover. See **“MPF rear cover removal”** on page 4-58.
2. Remove the MPF feed unit assembly. See **“MPF feed unit assembly removal”** on page 4-54.
3. Remove the MPF feed drive gear group. See **“MPF feed drive gear group removal”** on page 4-59.
4. Remove one screw securing the pick solenoid (A).
5. Disconnect the connector from the pick solenoid (A).
6. Remove the MPF pick solenoid (A).
Note: When removing the pick solenoid (A), lower the actuator (B).
7. Remove the pick lever (B).
8. Remove the spring (C).



Previous



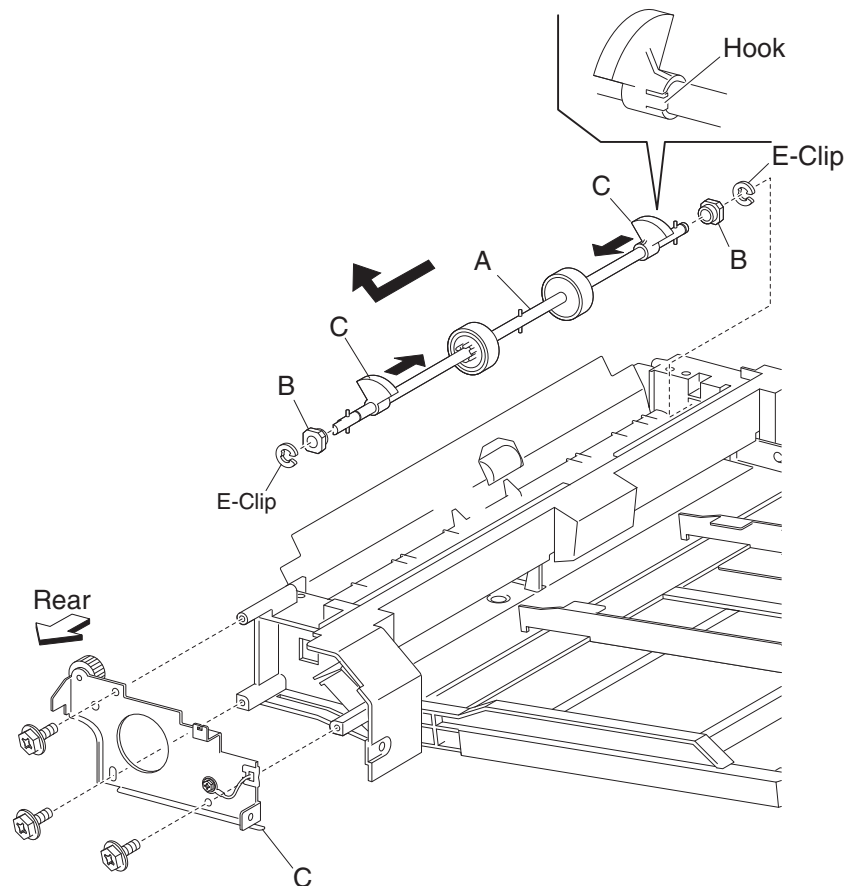
Next



Go Back

MPF feed shaft assembly removal

1. Remove the MPF rear cover. See **"MPF rear cover removal"** on page 4-58.
2. Remove the MPF feed unit assembly. See **"MPF feed unit assembly removal"** on page 4-54.
3. Remove the MPF pick roll. See **"MPF pick roll removal"** on page 4-64.
4. Remove the MPF feed drive gear group. See **"MPF feed drive gear group removal"** on page 4-59.
5. Remove the two e-rings with a prying tool that secures the feed shaft assembly (A) to the MPF feed unit assembly.
6. Remove the two bushings (B).
7. Release the hooks securing the two feed shaft cams (C), and slide them inward towards the center of the MPF feed shaft assembly (A).
8. Remove the feed shaft assembly (A) by moving it to the side then upwards in the direction of the arrow.



Previous



Next

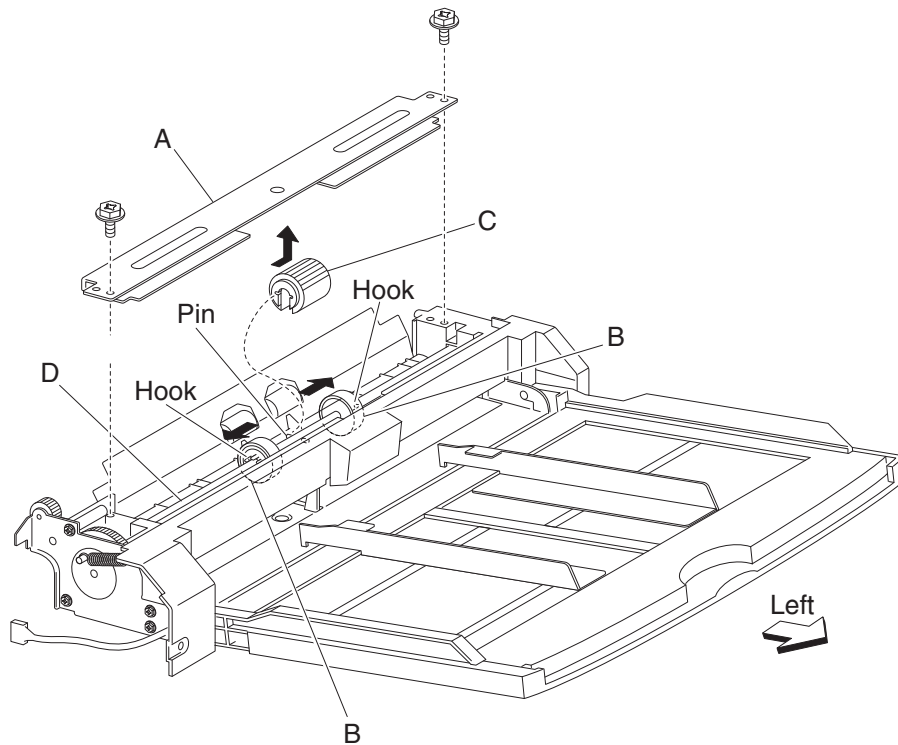


Go Back

MPF pick roll removal

1. Remove the MPF rear cover. See **“MPF rear cover removal” on page 4-58.**
2. Remove the MPF feed unit assembly. See **“MPF feed unit assembly removal” on page 4-54.**
3. Remove the two end screws securing the upper bracket (A) to the MPF feed unit assembly.
4. Remove the upper bracket (A).
5. Release the two hooks securing the two feed shaft cores (B), and slide them both outward.
6. Remove the MPF pick roll (C) from the feed shaft assembly (D) by sliding it to the right in the direction of the arrow and lifting upward.

Note: When removing the MPF pick roll (C), do not touch the rubber surface.



Note: Before reinstalling the MPF pick roll assembly (C), do not touch the rubber surface.

Previous



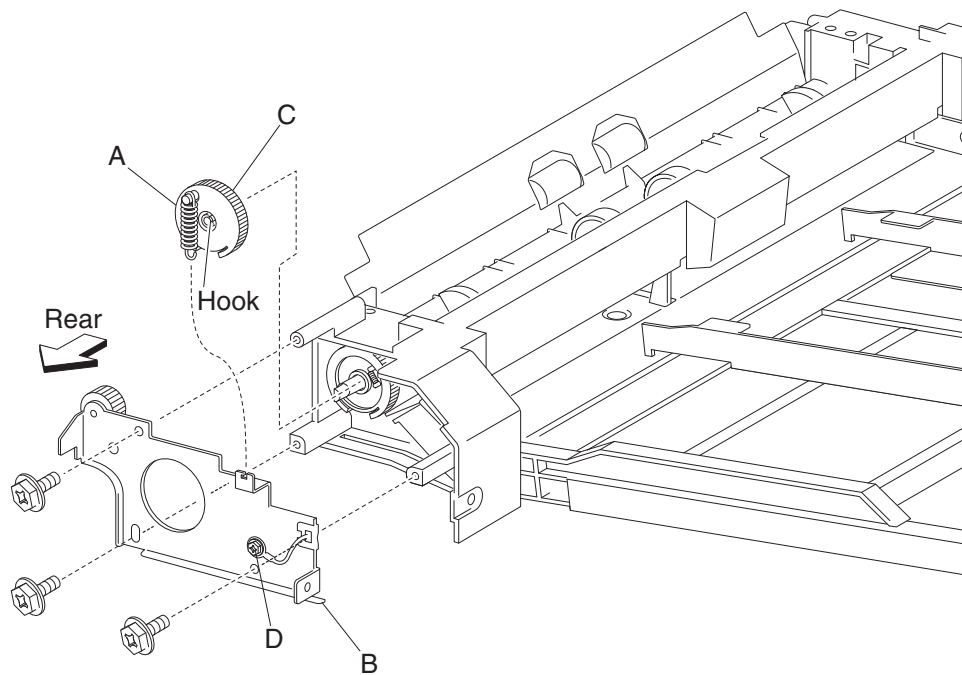
Next



Go Back

MPF fold down tray assembly removal

1. Remove the MPF rear cover. See **“MPF rear cover removal”** on page 4-58.
2. Remove the MPF feed unit assembly. See **“MPF feed unit assembly removal”** on page 4-54.
3. Remove the MPF upper frame. See **“MPF media out actuator and upper frame removal”** on page 4-55.
4. Remove the pickup spring (A) from the idler gear bracket assembly (B).
Note: Leave the pickup spring (A) attached to the MPF feed drive gear pickup (C).
5. Remove three screws securing the idler gear bracket assembly (B) to the MPF feed unit assembly.
6. Remove the idler gear bracket assembly (B).
7. Remove the green ground wire (D) from the idler gear bracket assembly (B).
8. Remove the green (D) ground wire from the clamp.



Previous

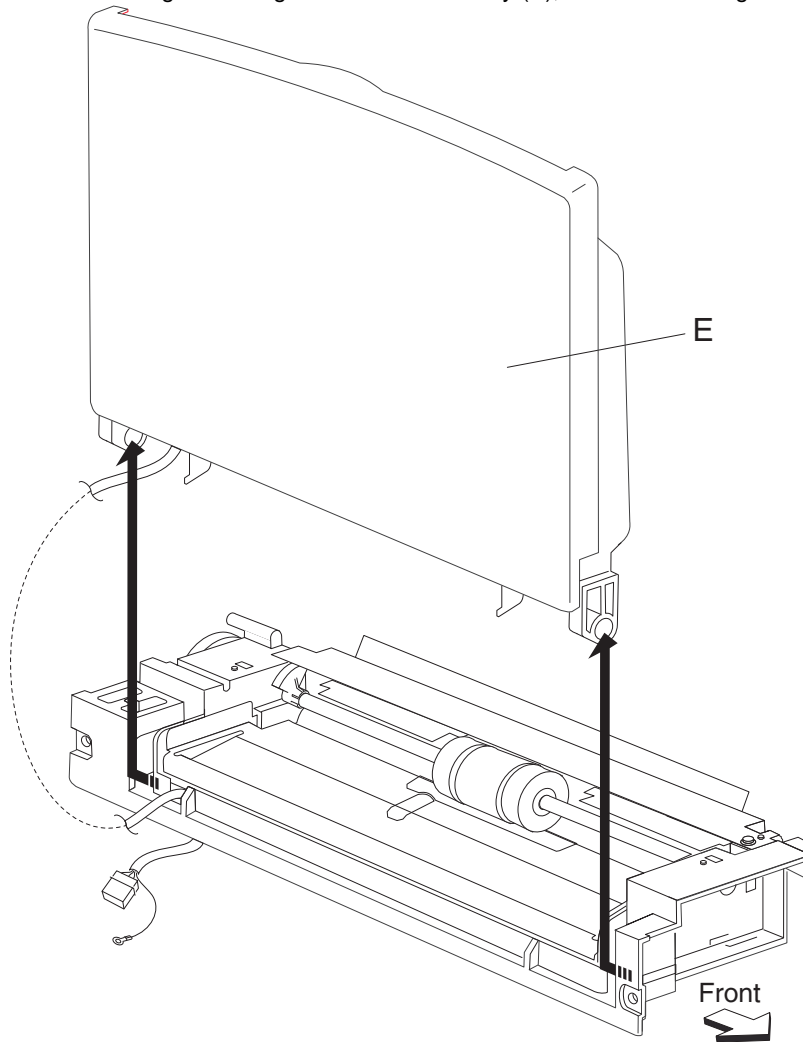


Next



Go Back

9. Disconnect the connector leading to the MPF fold down tray assembly (E).
 10. Raise the MPF fold down tray assembly (E) to its upright position, and slide it to the side.
 11. Remove the MPF fold down tray assembly (E).
- Note:** Before reinstalling the idler gear bracket assembly (B), ensure the wiring is not pinched.



Previous



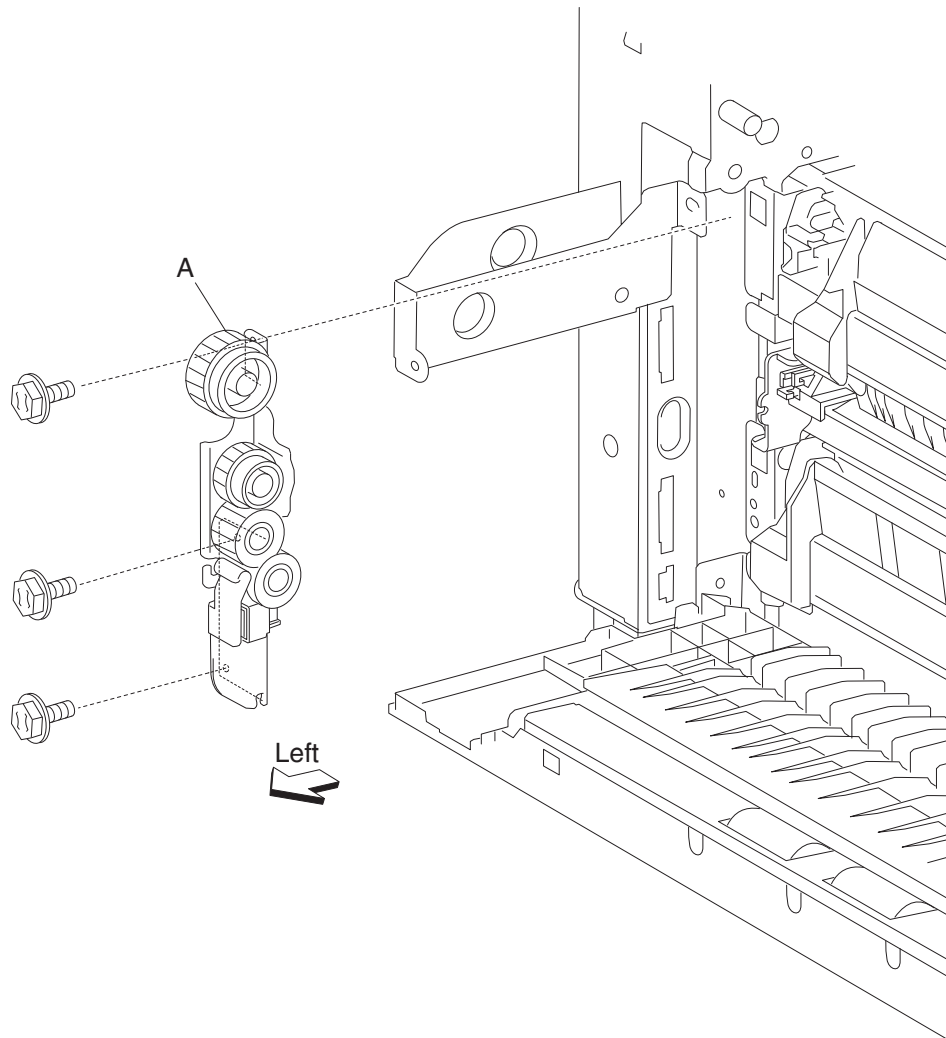
Next



Go Back

Vertical drive gear assembly removal

1. Remove the MPF rear cover. See **“MPF rear cover removal”** on page 4-58.
2. Remove the MPF feed unit assembly. See **“MPF feed unit assembly removal”** on page 4-54.
3. Remove the printer left door assembly. See **“Printer left door assembly removal”** on page 4-75.
4. Open the printer left lower door assembly.
5. Remove the three screws securing the vertical drive gear assembly (A).
6. Release the harness from the clamp on the vertical drive gear assembly (A).
7. Remove the vertical drive gear assembly (A).



Previous



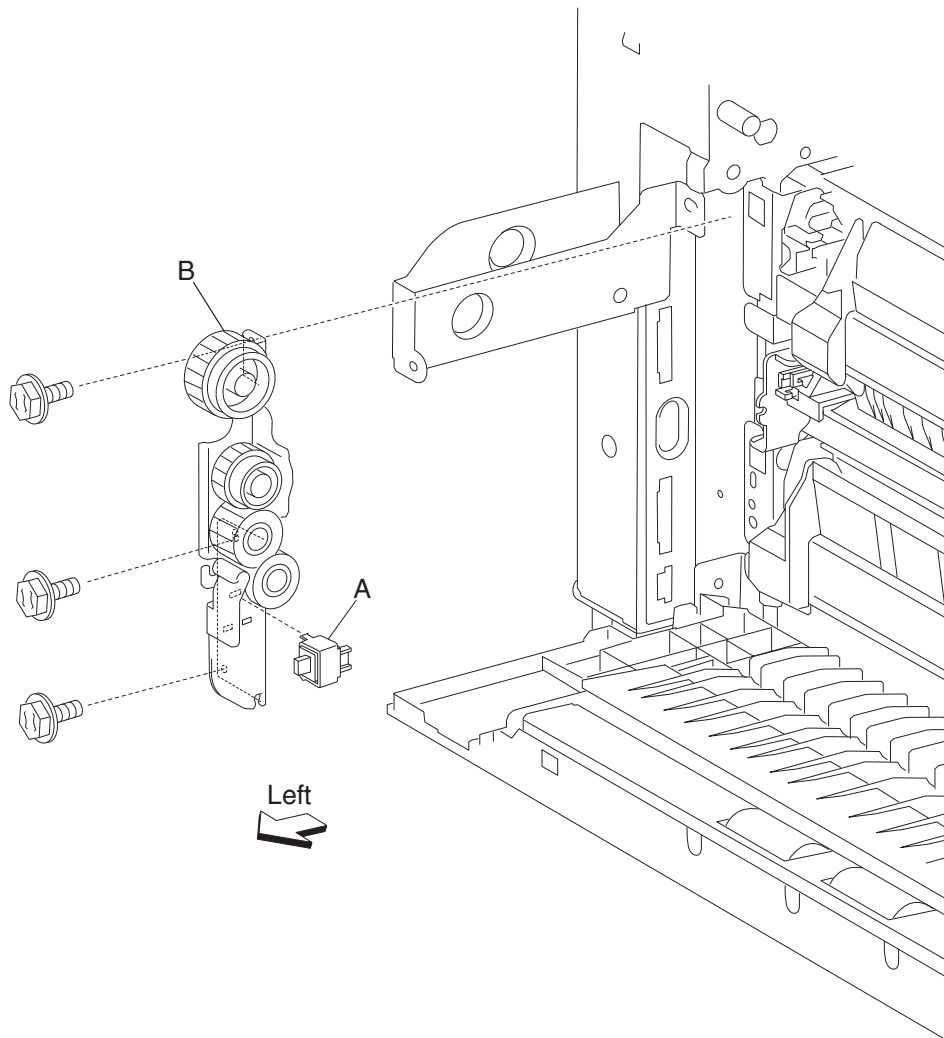
Next



Go Back

Switch (left lower door interlock)

1. Remove the MPF rear cover. See **“MPF rear cover removal”** on page 4-58.
2. Remove the MPF feed unit assembly. See **“MPF feed unit assembly removal”** on page 4-54.
3. Remove the printer left door assembly. See **“Printer left door assembly removal”** on page 4-75.
4. Remove the vertical drive gear assembly. See **“Vertical drive gear assembly removal”** on page 4-67.
5. Disconnect the harness from the switch (left lower door interlock) (A).
6. Release the hooks securing the switch (left lower door interlock) (A) to the vertical drive gear assembly (B).
7. Remove the lower switch (left lower door interlock) (A).



Previous



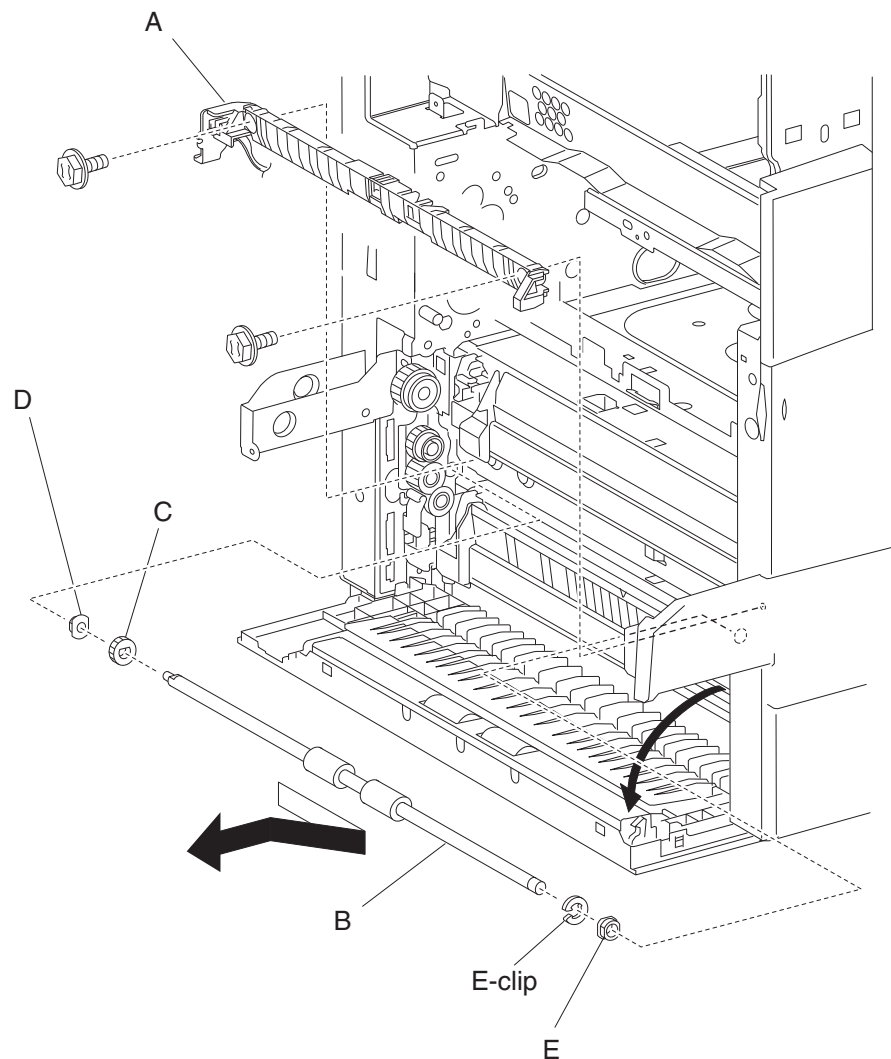
Next



Go Back

Media transport roll assembly / gear removal

1. Remove the MPF rear cover. See **“MPF rear cover removal”** on page 4-58.
2. Remove the MPF feed unit assembly. See **“MPF feed unit assembly removal”** on page 4-54.
3. Remove the printer left door assembly. See **“Printer left door assembly removal”** on page 4-75.
4. Open the printer left lower door assembly.
5. Remove the two screws securing the tray 2 feed-out sensor guide (A).
6. Remove the tray 2 feed-out sensor guide (A) while pulling on its center most point.
7. Remove the e-clip with needle nose pliers on the front side securing the media transport roll (B).
8. Remove the media transport roll assembly (B) by sliding it in the direction of the arrow and pulling out.
Note: When removing the media transport roll assembly (B), do not touch the rubber surface.
Note: When removing the media transport roll (B), the bushings and gear may become detached.
9. Remove the media transport roll gear 18 tooth (C).
10. Remove the transport roll rear bushing (D).
11. Remove the transport roll front bushing (E).



Note: Before reinstalling the media transport roll assembly (B), do not touch the rubber surface.

Previous



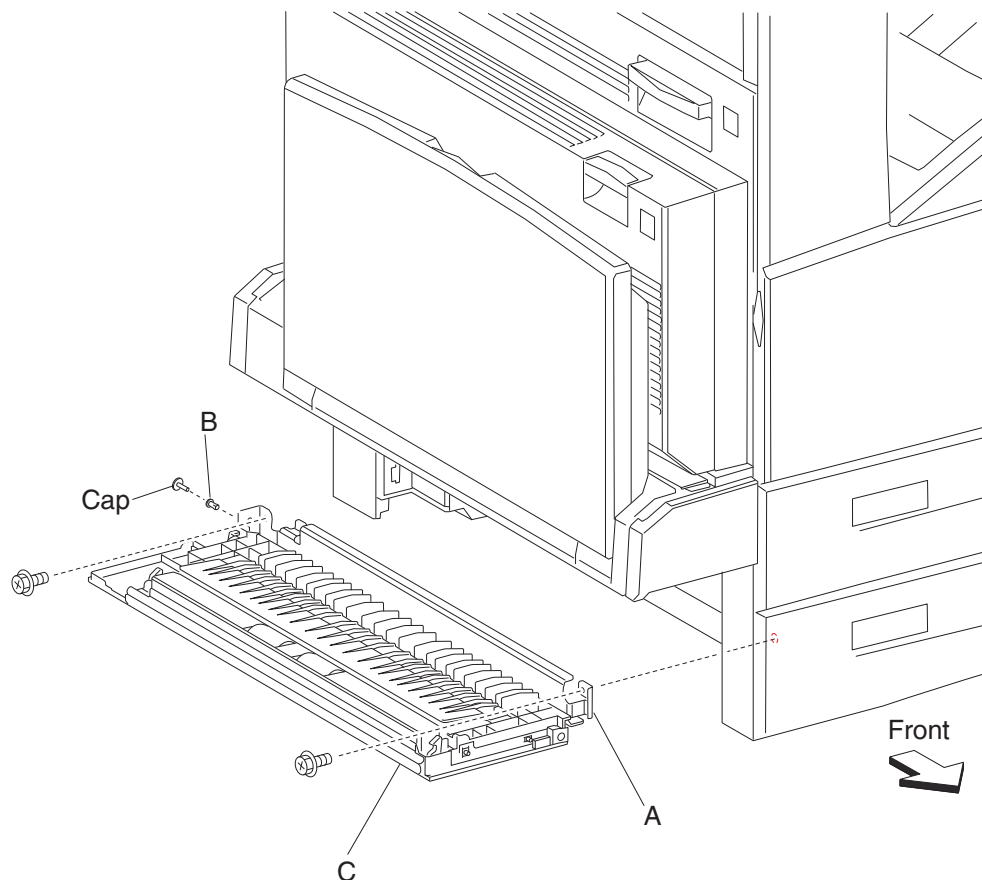
Next



Go Back

Printer left lower door assembly removal

1. Open the printer left lower door assembly.
2. Remove the two screws securing the bracket (A).
3. Remove the bracket (A).
4. Pull the cap of the hinge pin (B) out with a prying tool to remove the hinge pin (B) from the bracket (A).
5. Remove the hinge pin (B).
6. Remove the printer left lower door assembly (C) from the bracket (A).



Previous



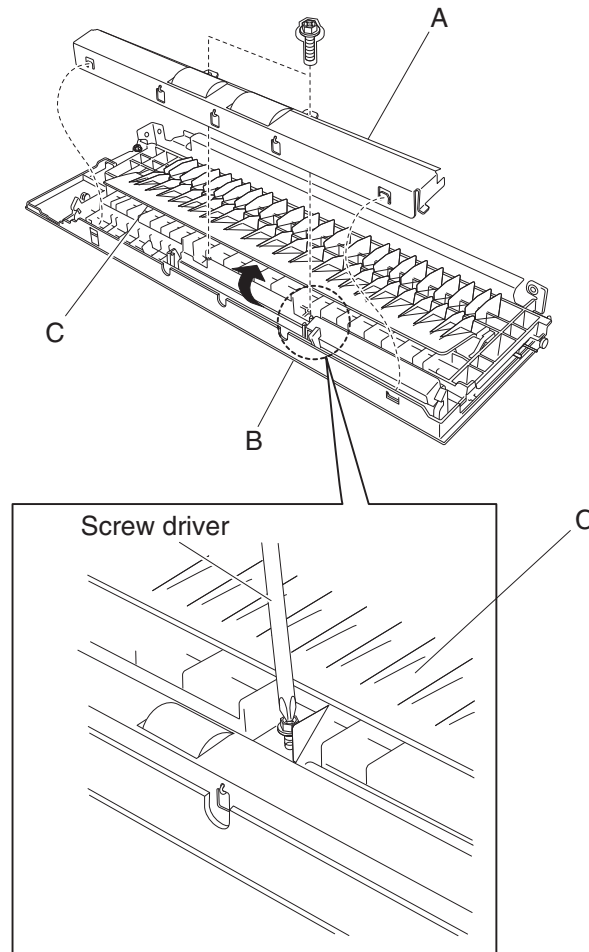
Next



Go Back

Printer left lower pinch roll assembly removal

1. Open the printer left lower door assembly.
2. Remove the two screws securing the left lower pinch roll assembly (A) to the printer left lower door assembly (B).
Note: The media guide (C) can be slightly lifted to gain better access to the attaching screws.
3. Release two hooks securing the left lower pinch roll assembly (A) to the printer left lower door assembly (B).
4. Remove the left lower pinch roll assembly (A).



Previous



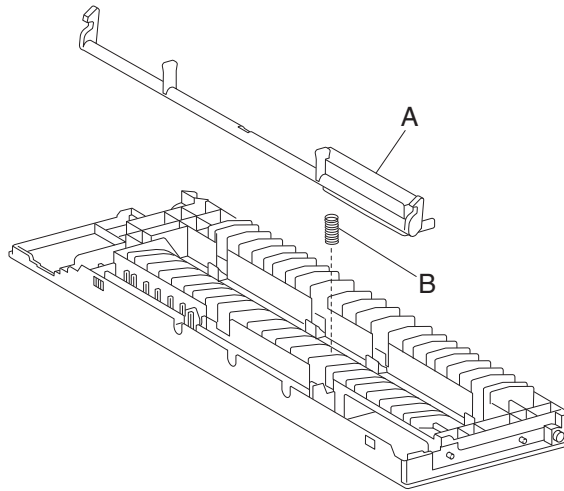
Next



Go Back

Left lower door handle assembly removal

1. Open the printer left lower door assembly.
2. Remove the printer left lower pinch roll assembly. See **“Printer left lower pinch roll assembly removal” on page 4-71.**
3. Remove the left lower door handle (A).
4. Remove the spring (B).



Previous



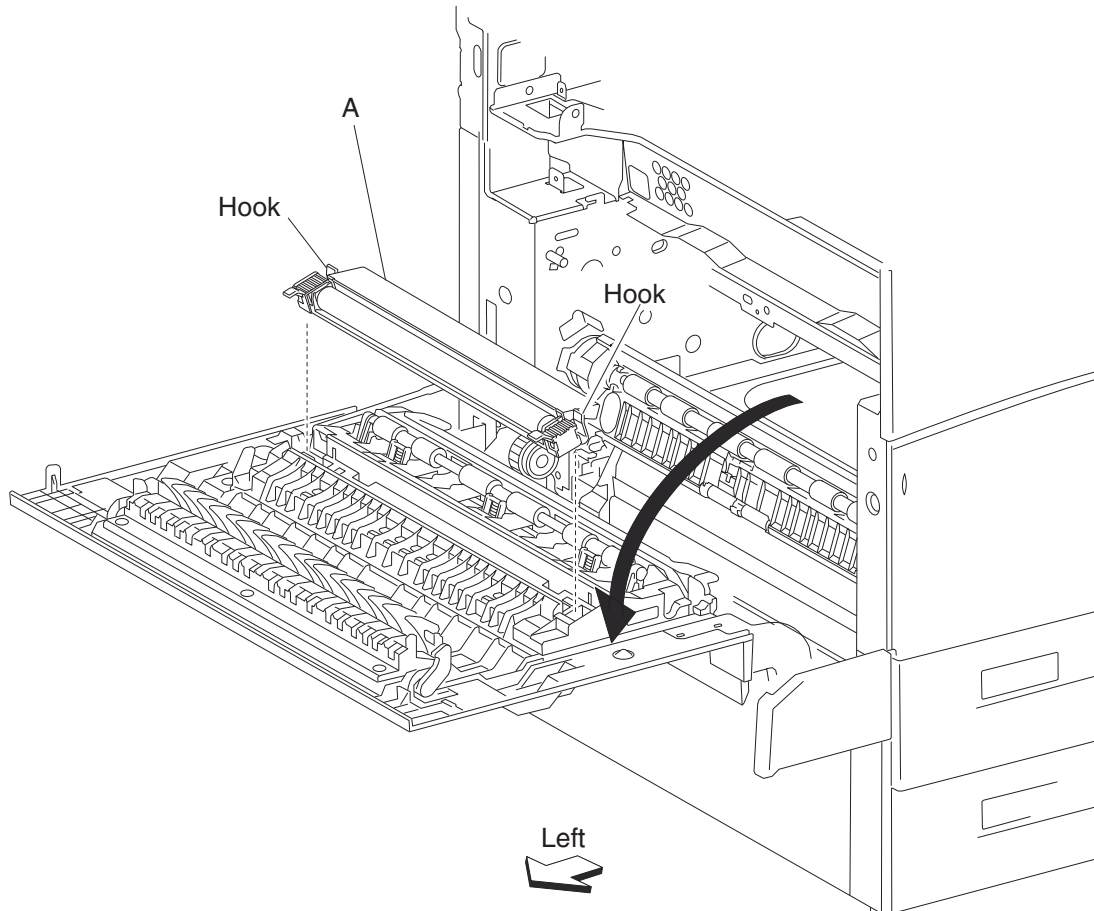
Next



Go Back

Transfer roll assembly removal

1. Open the printer left door assembly.
2. Release the two plastic hooks on the transfer roll assembly (A).
3. Remove the transfer roll assembly (A) by lifting it upward.
Note: When removing the transfer roll assembly (A), do not touch the roll surface.



Note: Before reinstalling the transfer roll assembly (A), do not touch the roll surface.

Previous



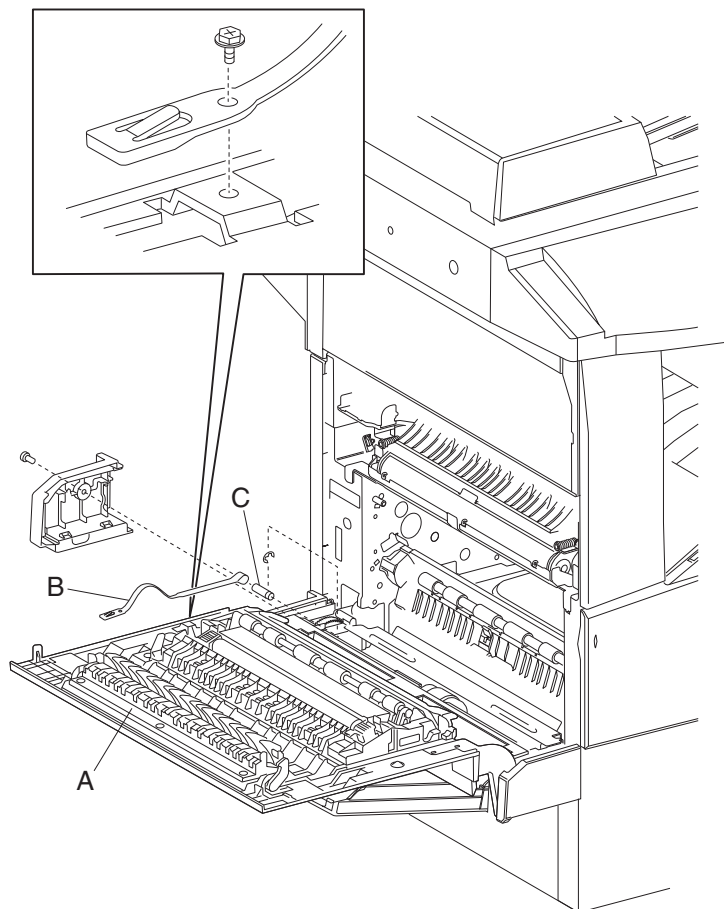
Next



Go Back

Printer left door support strap removal

1. Remove the MPF rear cover. See **“MPF rear cover removal”** on page 4-58.
2. Open the printer left door assembly (A).
3. Remove the screw securing the printer left door support strap (B) to the printer left door (A).
4. Remove the e-clip securing the shaft (C) to the printer.
5. Remove the shaft (C).
6. Remove the printer left door support strap (B).



Previous



Next

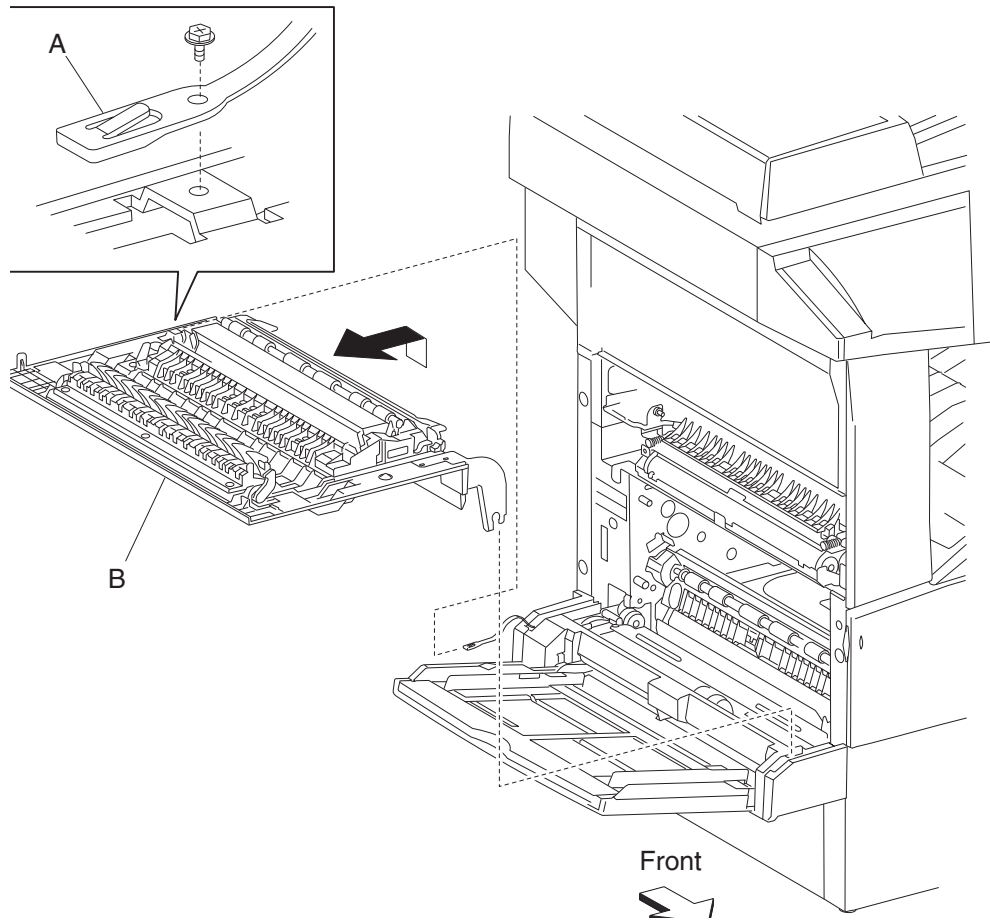


Go Back

Printer left door assembly removal

Note: First, remove the duplex unit assembly if equipped.

1. Open the printer left door assembly.
2. Remove the screw securing the left door support strap (A) to the printer left door assembly (B).
3. Remove the printer left door assembly (B) by lowering it then lifting upward.



Previous



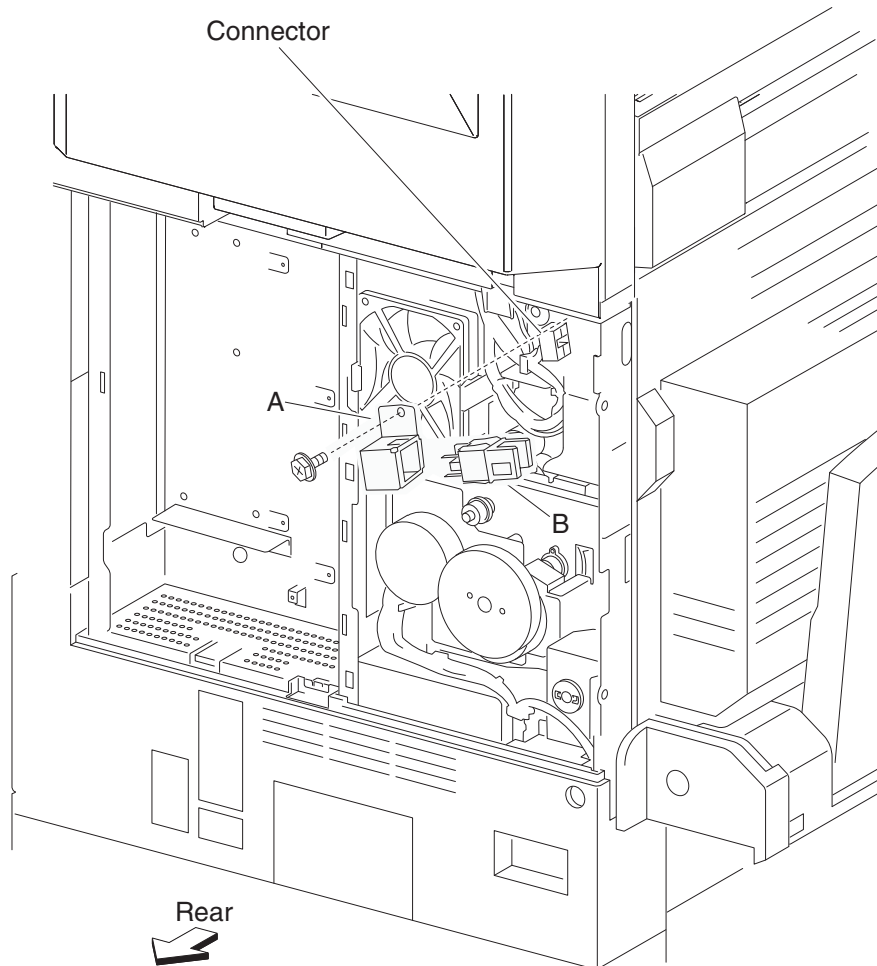
Next



Go Back

Switch (printer left door interlock) removal

1. Remove the rear motor cover. See **“Rear motor cover removal”** on page 4-11.
2. Open the printer left door assembly.
3. Remove the one screw securing the bracket (A) to the printer.
4. Remove the bracket (A).
5. Disconnect the connector from the switch (printer left door interlock) (B).
6. Release the hooks securing the switch (printer left door interlock) (B) to the bracket (A).
7. Remove the switch (printer left door interlock) (B).



Previous



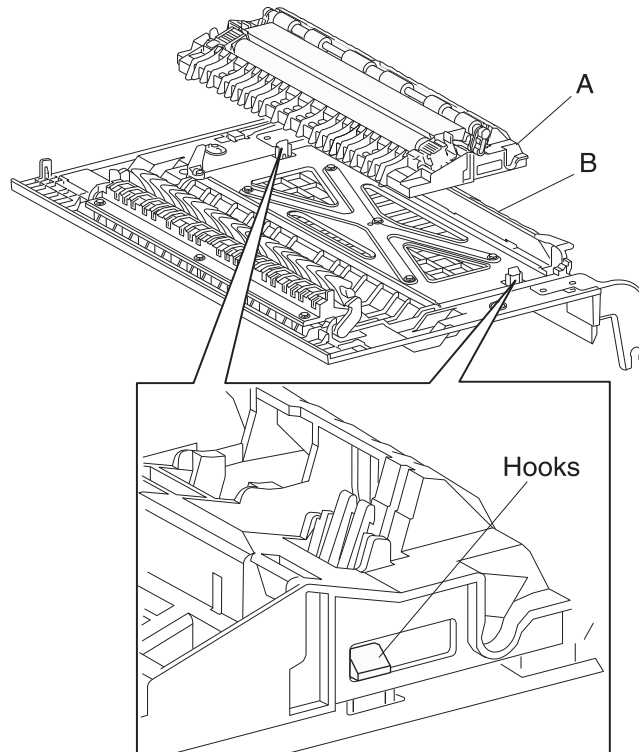
Next



Go Back

Transfer roll guide assembly removal

1. Open the printer left door assembly.
2. Remove the printer left door assembly. See **“Printer left door assembly removal” on page 4-75.**
3. Remove the transfer roll assembly. See **“Transfer roll assembly removal” on page 4-73.**
4. Release the two hooks securing the transfer roll guide assembly (A) to the printer left door assembly (B).
5. Remove the transfer roll guide assembly (A).



Previous



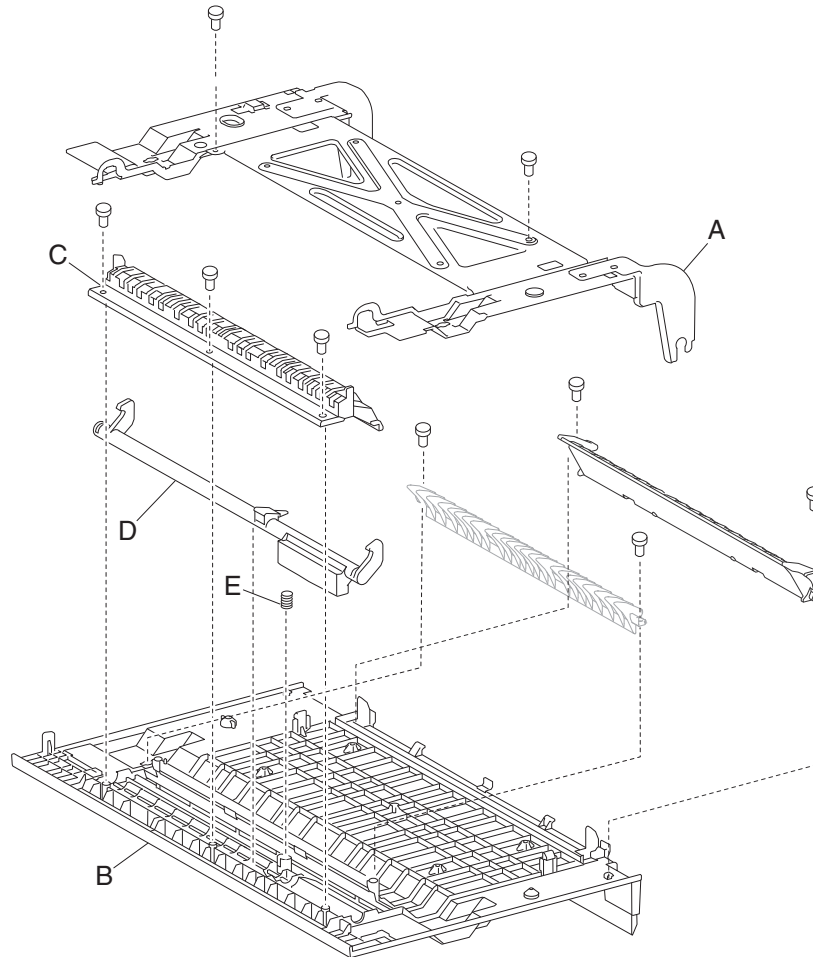
Next



Go Back

Printer left door assembly handle removal

1. Open the printer left door assembly.
2. Remove the printer left door assembly. See **“Printer left door assembly removal” on page 4-75.**
3. Remove the transfer roll guide assembly. See **“Transfer roll guide assembly removal” on page 4-77.**
4. Remove five screws securing the metal frame (A) to the plastic cover (B).
5. Remove the metal frame (A) by lifting it upward and sliding outward.
6. Remove the three screws securing the handle cover (C) to the handle (D).
7. Remove the handle cover (C).
8. Remove the printer left door assembly handle (D).
9. Remove the spring (E).



Previous



Next



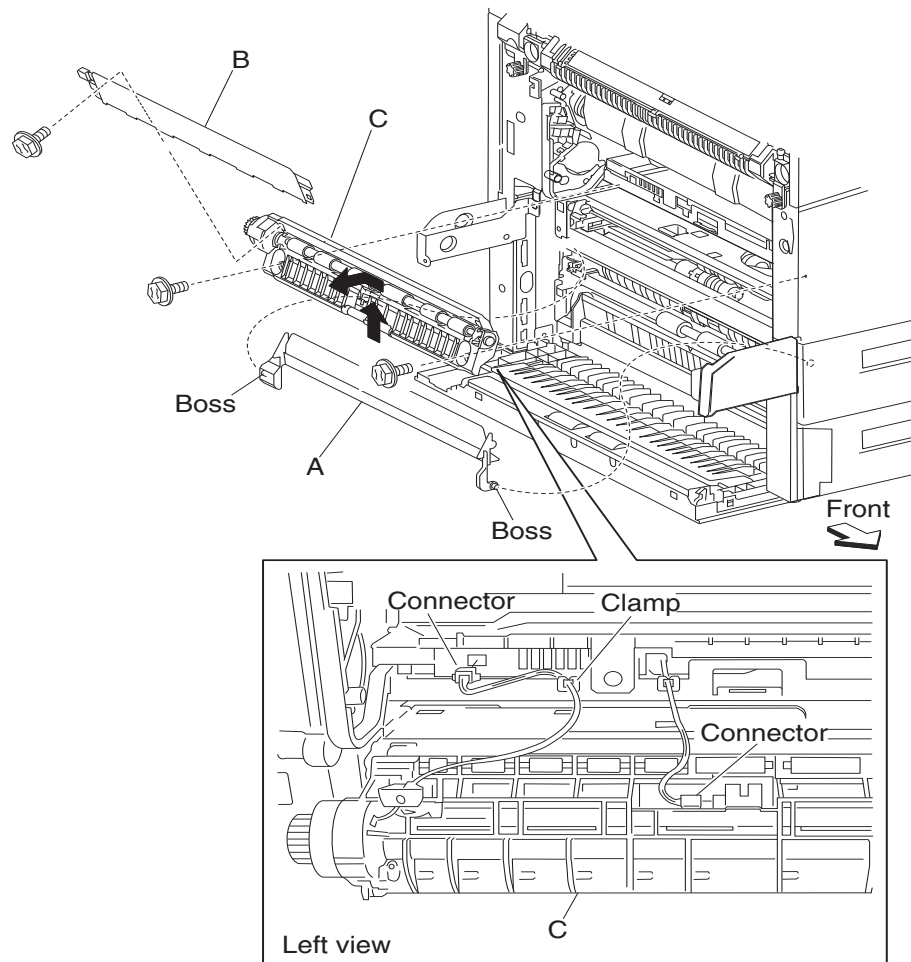
Go Back

Registration roll assembly removal

1. Remove the MPF rear cover. See **“MPF rear cover removal”** on page 4-58.
2. Remove the MPF feed unit assembly. See **“MPF feed unit assembly removal”** on page 4-54.
3. Remove the printer left door assembly. See **“Printer left door assembly removal”** on page 4-75.
4. Remove the bosses on both ends of the vertical turn mylar guide (A).
5. Remove the vertical turn mylar guide (A).

Warning: The vertical turn mylar guide (A) requires moderate force to remove. Be careful not to damage it.
6. Remove the two screws securing the registration mylar guide assembly (B) to the registration roll assembly (C).
7. Remove the registration mylar guide assembly (B).
8. Remove the two screws securing registration roll assembly (C).
9. Remove the registration roll assembly (C) by lifting it upward and outward in the direction of the arrow.

Note: When removing the registration roll assembly (C), use care not to damage the two harnesses located on the backside of the assembly.
10. Release the harness from the clamp.
11. Disconnect the two connectors from the registration roll assembly (C).



Note:

- Before reinstalling the registration roll assembly (C), fit the bosses on the rear center of the assembly into the holes.
- Before reinstalling the two harness connectors, ensure they are plugged in properly.

Previous



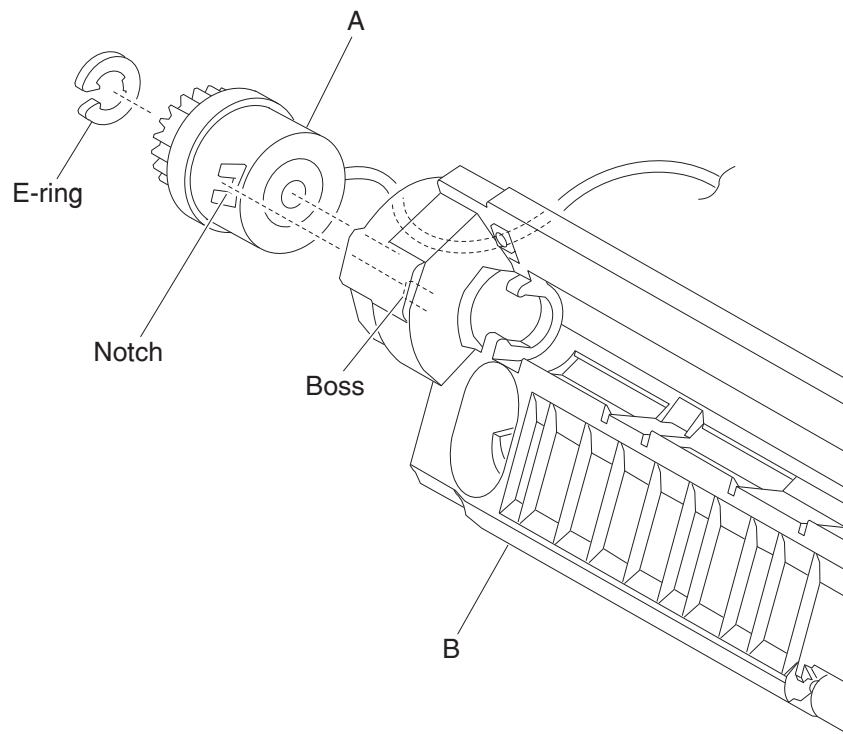
Next



Go Back

Registration clutch assembly removal

1. Remove the MPF rear cover. See **“MPF rear cover removal”** on page 4-58.
2. Remove the MPF feed unit assembly. See **“MPF feed unit assembly removal”** on page 4-54.
3. Remove the printer left door assembly. See **“Printer left door assembly removal”** on page 4-75.
4. Remove the registration roll assembly. See **“Registration roll assembly removal”** on page 4-79.
5. Remove the e-ring with a prying tool securing the registration clutch assembly (A) to the registration roll assembly (B).
6. Remove the registration clutch assembly (A) along with the harness.



Note:

- Before reinstalling, the harness for the clutch must be placed through the hole on the registration roll assembly (B).
- Before reinstalling, the notch on the registration clutch assembly (A) must be placed over the boss of the registration roll assembly (B).

Previous



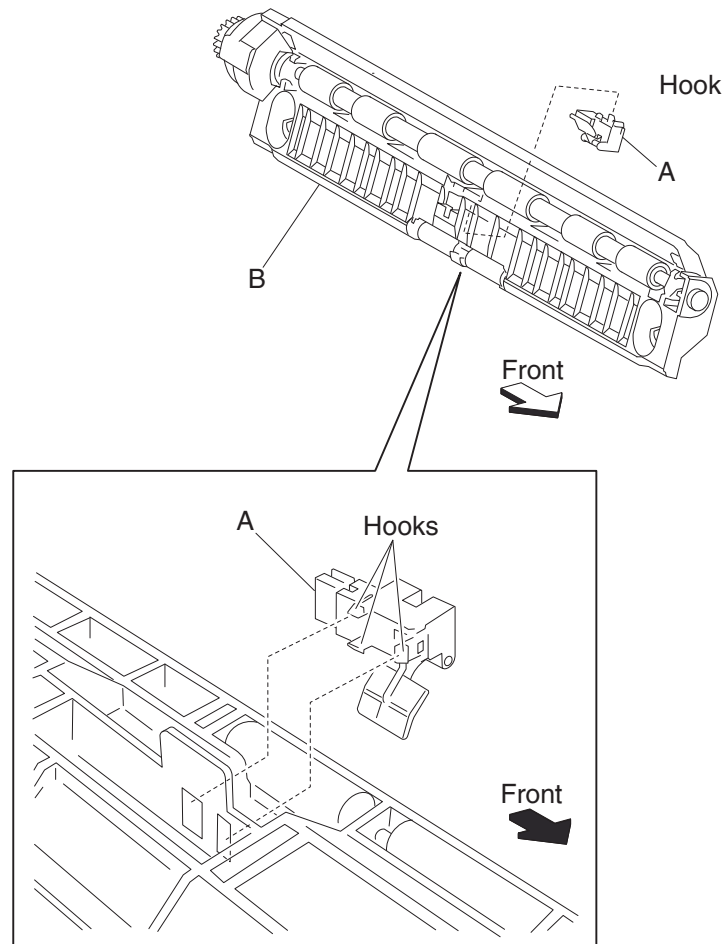
Next



Go Back

Sensor (registration) removal

1. Remove the MPF rear cover. See **“MPF rear cover removal”** on page 4-58.
2. Remove the MPF feed unit assembly. See **“MPF feed unit assembly removal”** on page 4-54.
3. Remove the printer left door assembly. See **“Printer left door assembly removal”** on page 4-75.
4. Remove the registration roll assembly. See **“Registration roll assembly removal”** on page 4-79.
5. Release the hooks securing the sensor (registration) (A) to the registration roll assembly (B).
6. Remove the sensor (registration) (A).
7. Disconnect the connector from the sensor (registration).



Previous



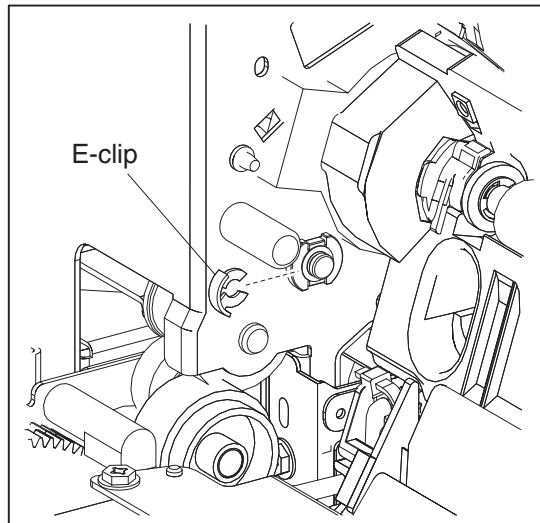
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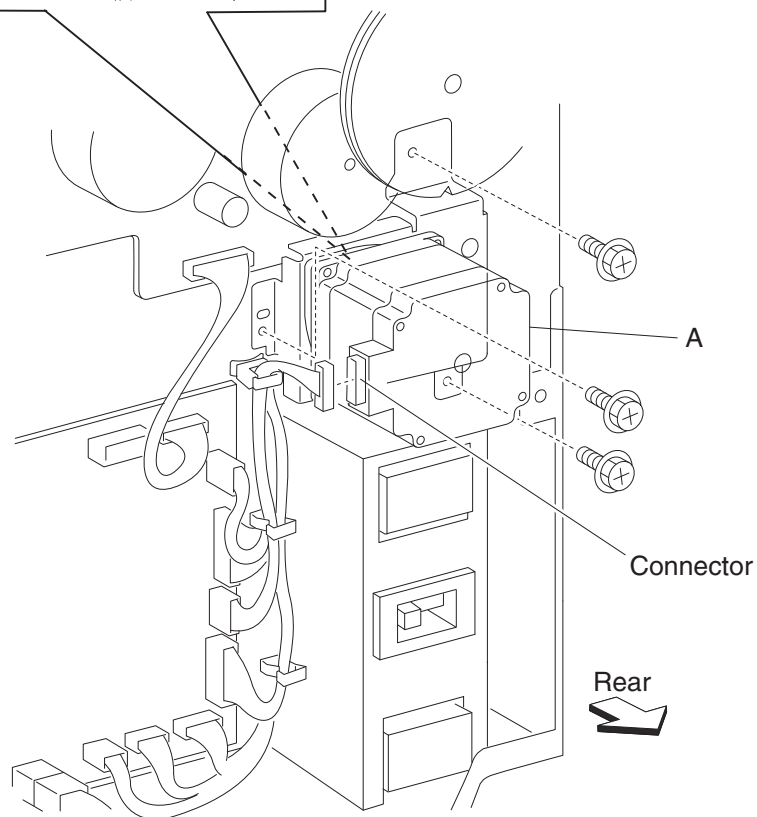
Go Back

MPF/transport drive motor assembly removal

1. Remove the rear motor cover. See **“Rear motor cover removal”** on page 4-11.
2. Remove the rear lower cover. See **“Rear lower cover removal”** on page 4-12.
3. Open the printer left door assembly.
4. Remove the e-clip with needle nose pliers.
Note: This e-clip is located inside the machine behind the printer left door.
5. Release the hook and disconnect the connector from the MPF/transport drive motor assembly (A).
6. Remove the three screws securing the MPF/transport drive motor assembly (A) to the machine.
7. Remove the MPF/transport drive motor assembly (A).



Front view



Previous



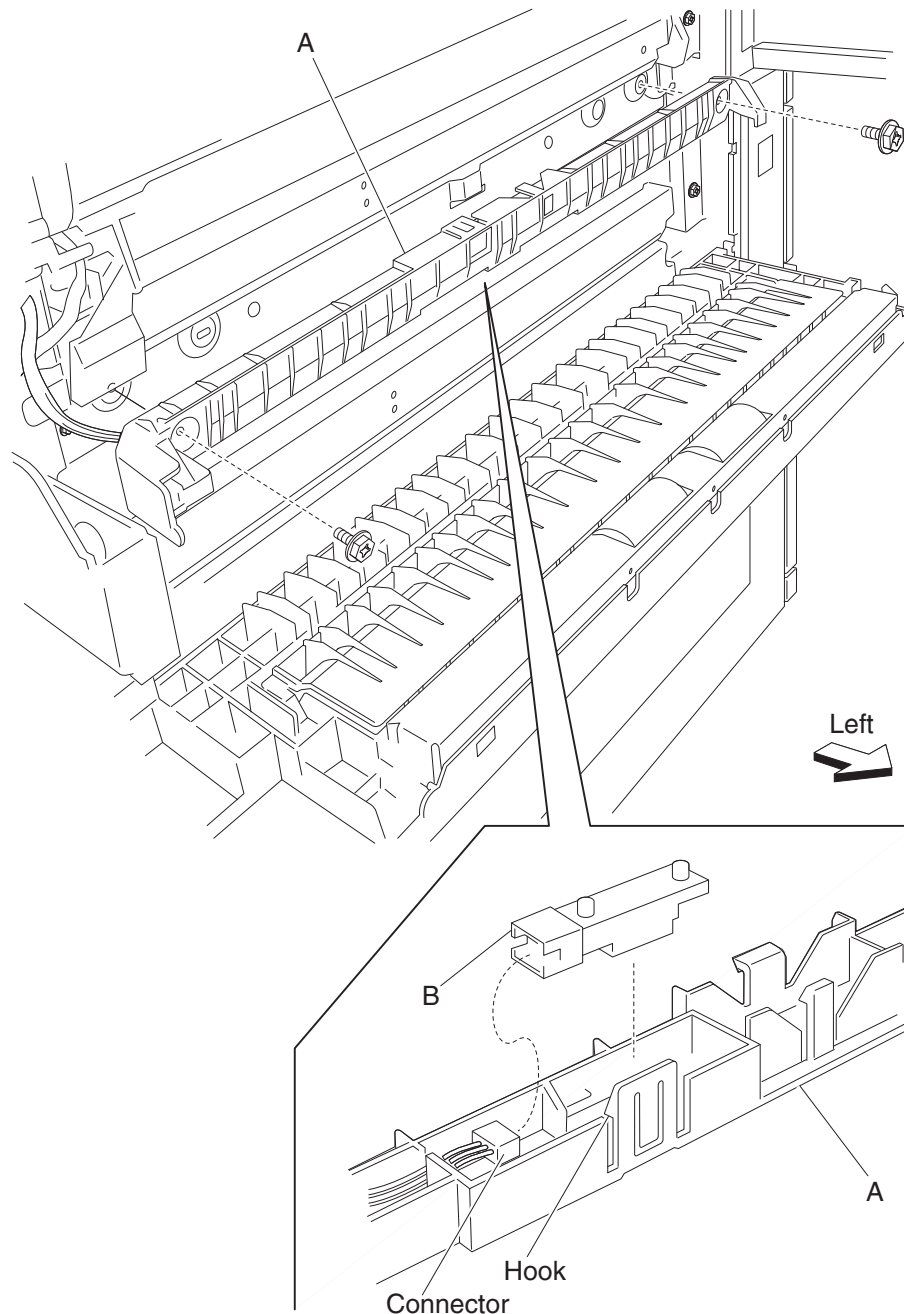
Next



Go Back

Sensor (tray 2 feed-out) removal

1. Remove the MPF rear cover. See **“MPF rear cover removal”** on page 4-58.
2. Remove the MPF feed unit assembly. See **“MPF feed unit assembly removal”** on page 4-54.
3. Remove the printer left door assembly. See **“Printer left door assembly removal”** on page 4-75.
4. Open the printer left lower door assembly. See **“Printer left lower door assembly removal”** on page 4-70.
5. Remove the two screws securing the tray 2 feed-out sensor guide (A).
6. Remove the tray 2 feed-out sensor guide (A) while pulling on its center most point.
7. Disconnect the connector from the sensor (tray 2 feed-out) (B).
8. Release the hook securing the sensor (tray 2 feed-out) (B).
9. Remove the sensor (tray 2 feed-out) (B).



Previous



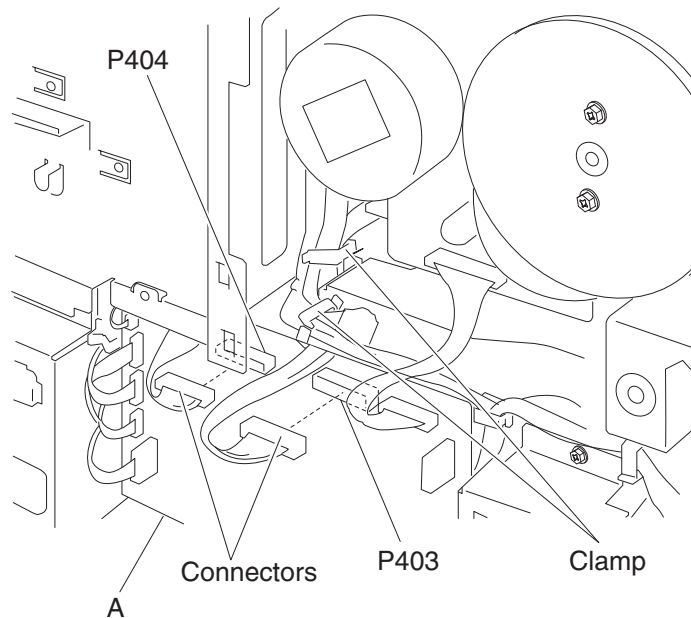
Next



Go Back

Switch (PC cartridge interlock) removal

1. Remove the printer front left cover. See **“Printer front left cover removal” on page 4-3.**
2. Remove the top cover assembly. See **“Top cover assembly removal” on page 4-5.**
3. Remove the PC cartridge.
4. Remove the toner cartridge.
5. Remove the printer front door assembly. See **“Printer front door assembly removal” on page 4-6.**
6. Remove the front inner cover. See **“Front inner cover removal” on page 4-8.**
7. Remove the HVPS card assembly. See **“High voltage power supply (HVPS) card removal” on page 4-115.**
8. Remove the toner cartridge guide assembly. See **“Toner cartridge guide assembly removal” on page 4-95.**
9. Remove the rear lower cover. See **“Rear lower cover removal” on page 4-12.**
10. Disconnect the two connectors P403 and P404 from the printer engine card assembly (A).



11. Open the printer left door assembly.
12. Remove the registration roll assembly. See **“Registration roll assembly removal” on page 4-79.**

Previous

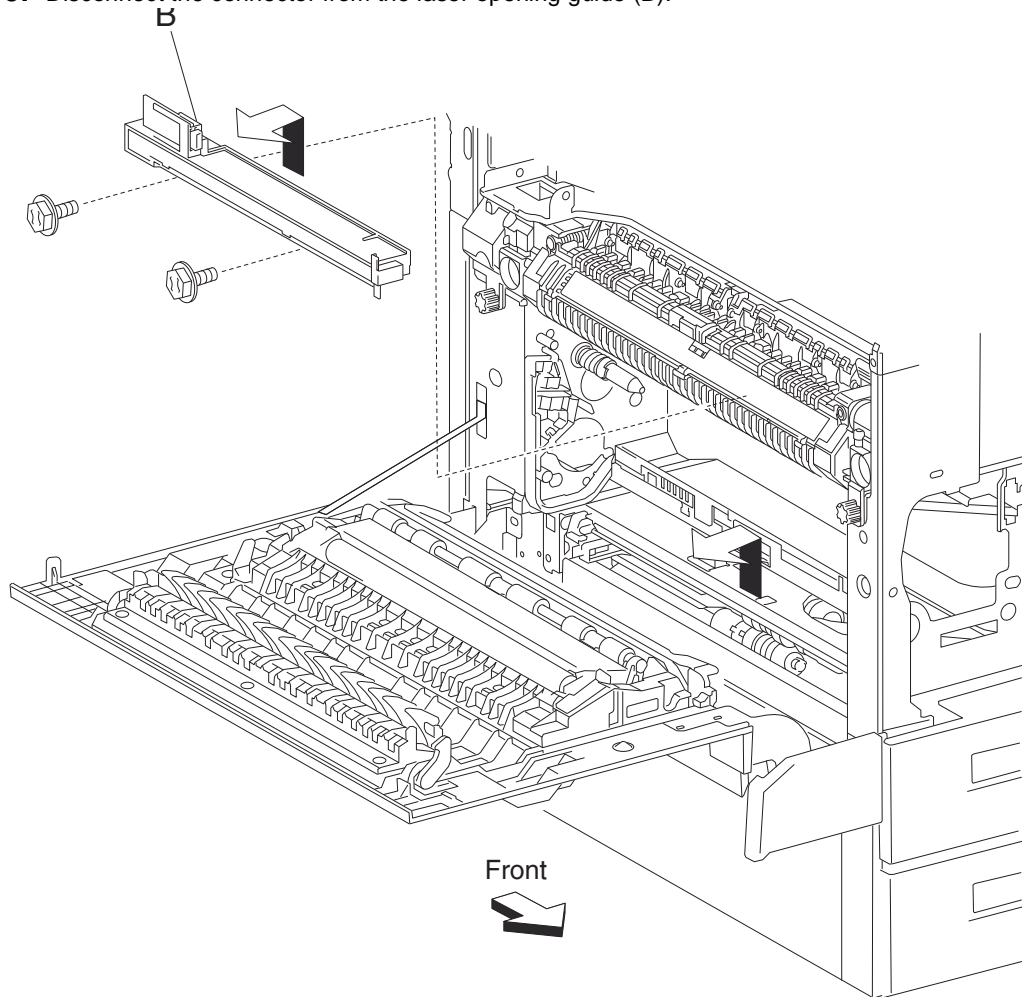


Next



Go Back

13. Remove the two screws securing the laser opening guide (B).
14. Release the harness from the clamp on the laser opening guide (B).
15. Disconnect the connector from the laser opening guide (B).



Previous



Next



Go Back

16. Remove the laser opening guide (B) by lifting it upward then outward in the direction of the arrow.
17. Remove the four screws securing the PC cartridge guide (C).

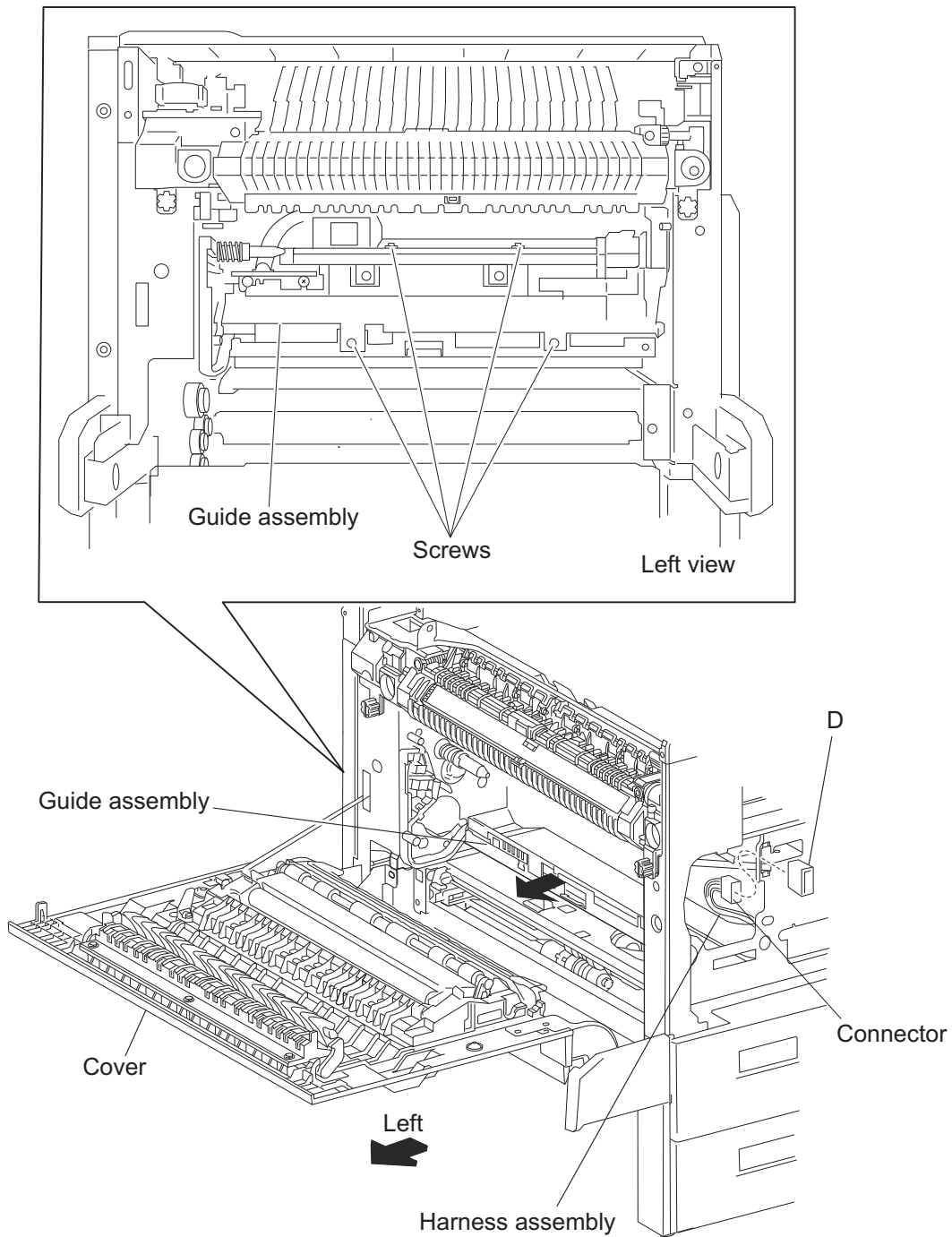
Previous



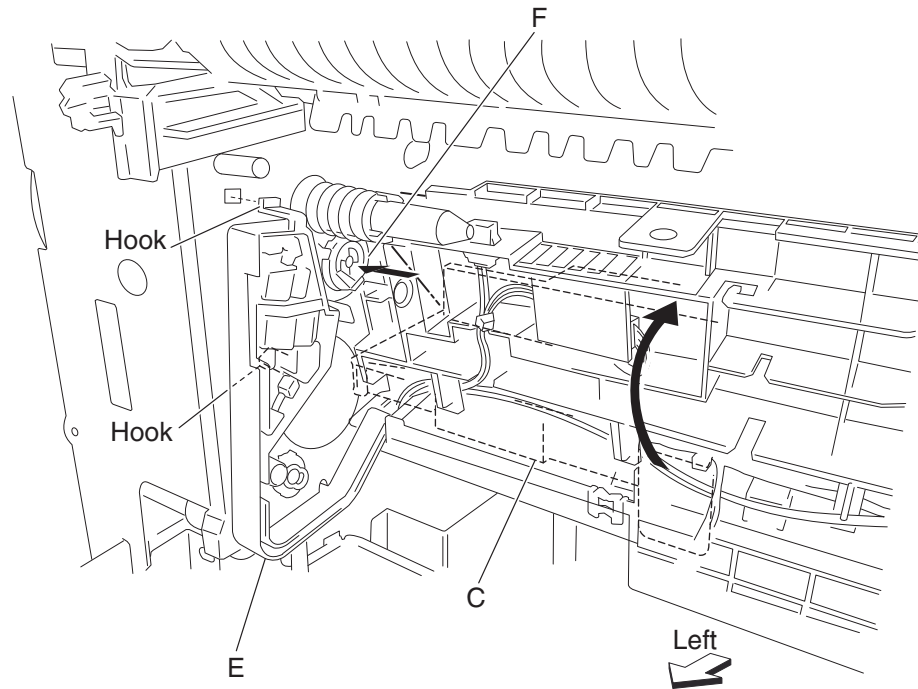
Next



Go Back



18. Slide the PC cartridge guide (C) toward the left side and disconnect the connector from the PC cartridge sensor connector.
19. Remove the two hooks securing the transfer roll power contact (E).
20. While pressing the PC cartridge drive coupler (F), lift the front side of the PC cartridge guide assembly (C) upward.
21. Release the harness from the clamp on the rear side of the PC cartridge guide assembly (C).
22. While pressing the PC cartridge drive coupler (F), lower the left side of the PC cartridge guide assembly (C).



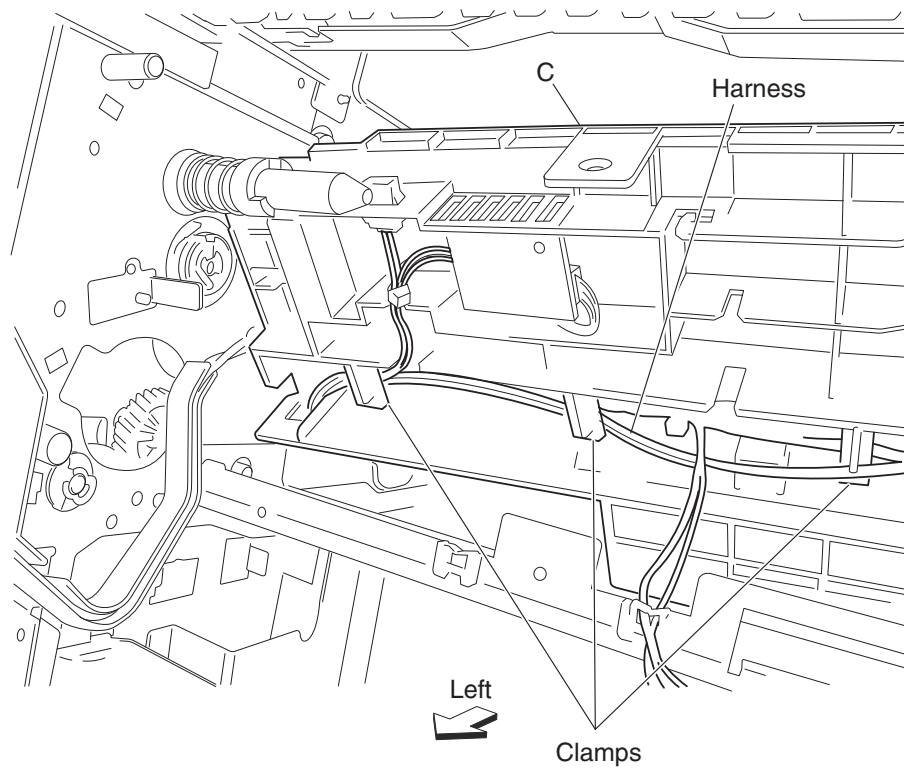
Previous



Next



Go Back



Previous

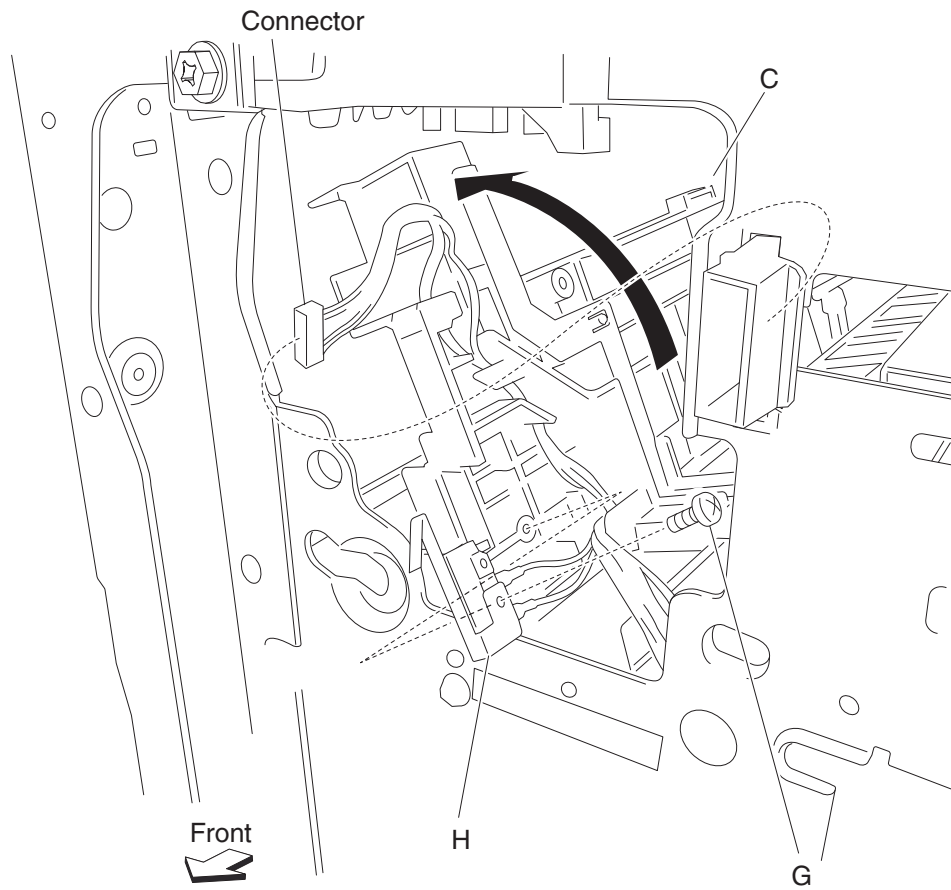


Next



Go Back

23. Lift the right side of the PC cartridge guide assembly (C). Remove the screw (G) securing the switch (PC cartridge interlock) (H) to the PC cartridge guide assembly (C). Remove the switch (PC cartridge interlock) (H).



24. Remove the PC cartridge guide assembly (C) from the printer.

Previous



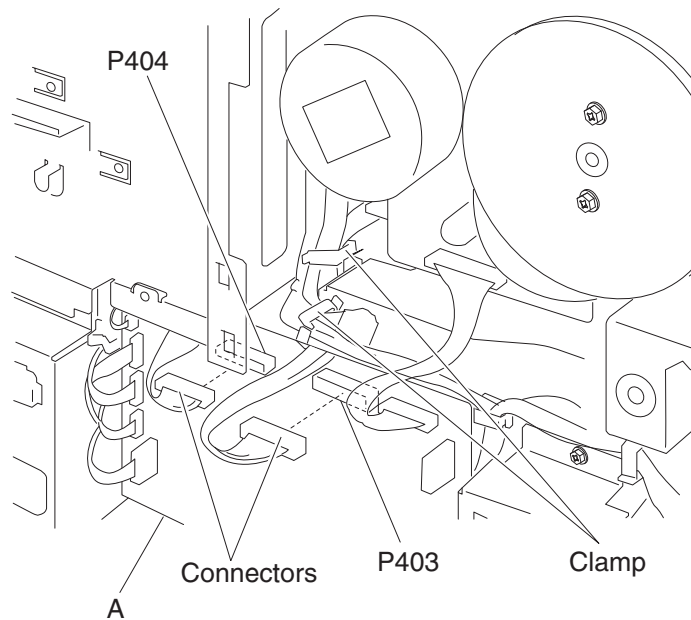
Next



Go Back

Sensor (humidity and temperature) removal

1. Remove the printer front left cover. See **“Printer front left cover removal” on page 4-3.**
2. Remove the top cover assembly. See **“Top cover assembly removal” on page 4-5.**
3. Remove the PC cartridge.
4. Remove the toner cartridge.
5. Remove the printer front door assembly. See **“Printer front door assembly removal” on page 4-6.**
6. Remove the front inner cover. See **“Front inner cover removal” on page 4-8.**
7. Remove the HVPS card. See **“High voltage power supply (HVPS) card removal” on page 4-115.**
8. Remove the toner cartridge guide assembly. See **“Toner cartridge guide assembly removal” on page 4-95.**
9. Remove the rear lower cover. See **“Rear lower cover removal” on page 4-12.**
10. Disconnect the two connectors P403 and P404 from the printer engine card assembly (A).
11. Release the harnesses from the two clamps.
12. Remove the registration roll assembly. See **“Registration roll assembly removal” on page 4-79.**



Previous

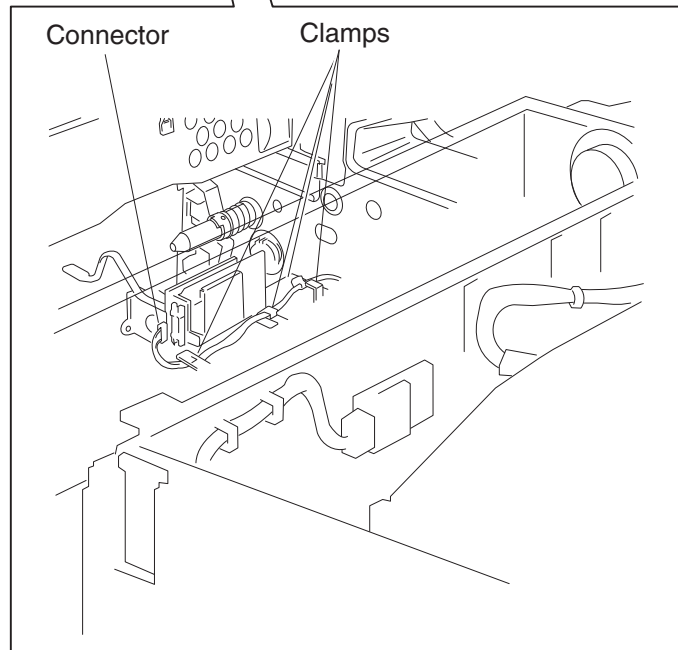
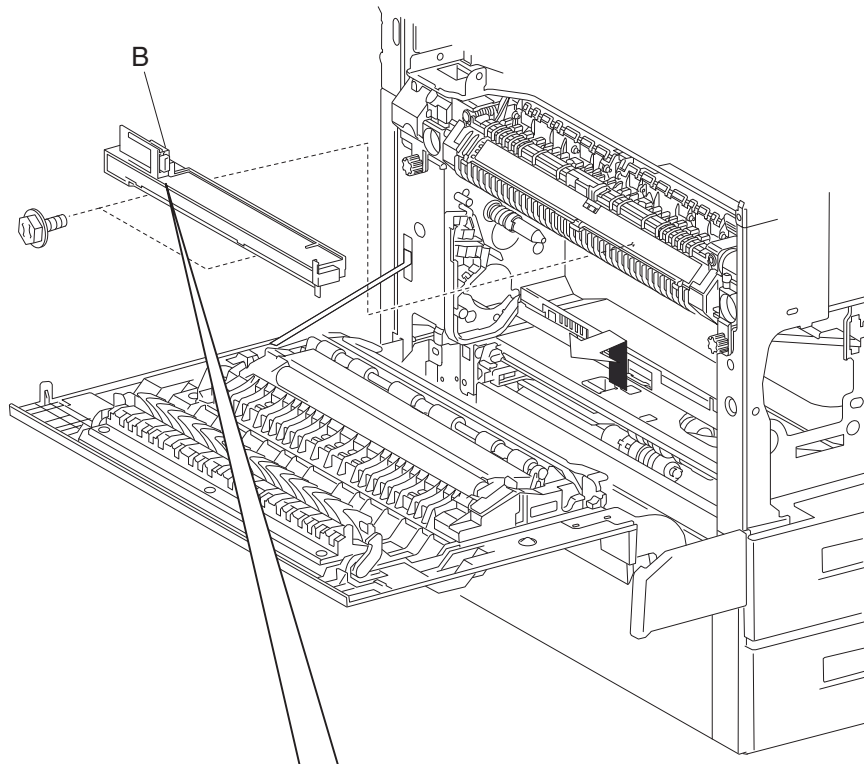


Next



Go Back

13. Remove the two screws securing the laser opening guide (B).
14. Release the harness from the clamp on the laser opening guide (B).
15. Disconnect the connector from the laser opening guide (B).



Previous

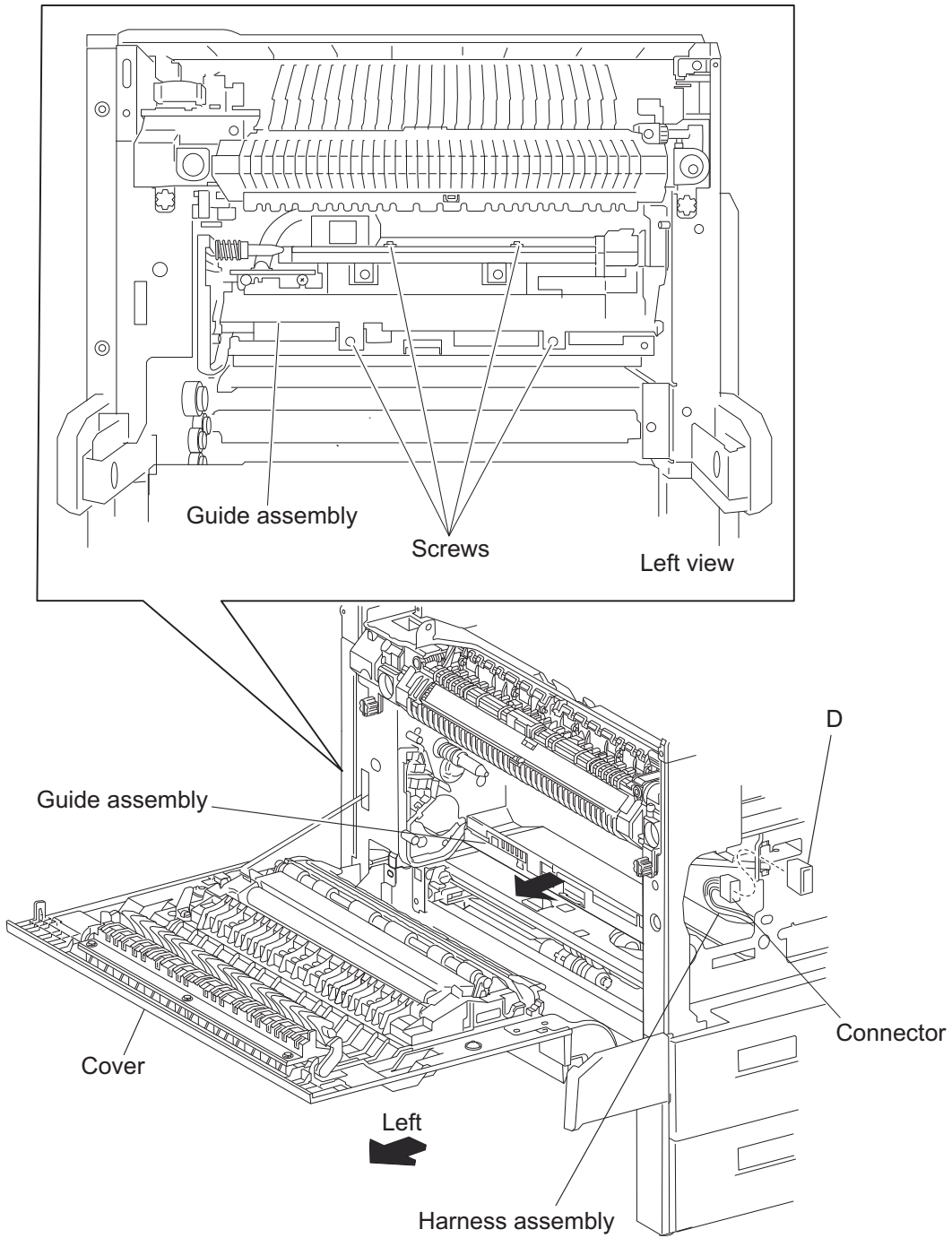


Next



Go Back

16. Remove the laser opening guide (B) by lifting it upward then outward in the direction of the arrow.



17. Remove the four screws securing the PC cartridge guide (D).

Previous

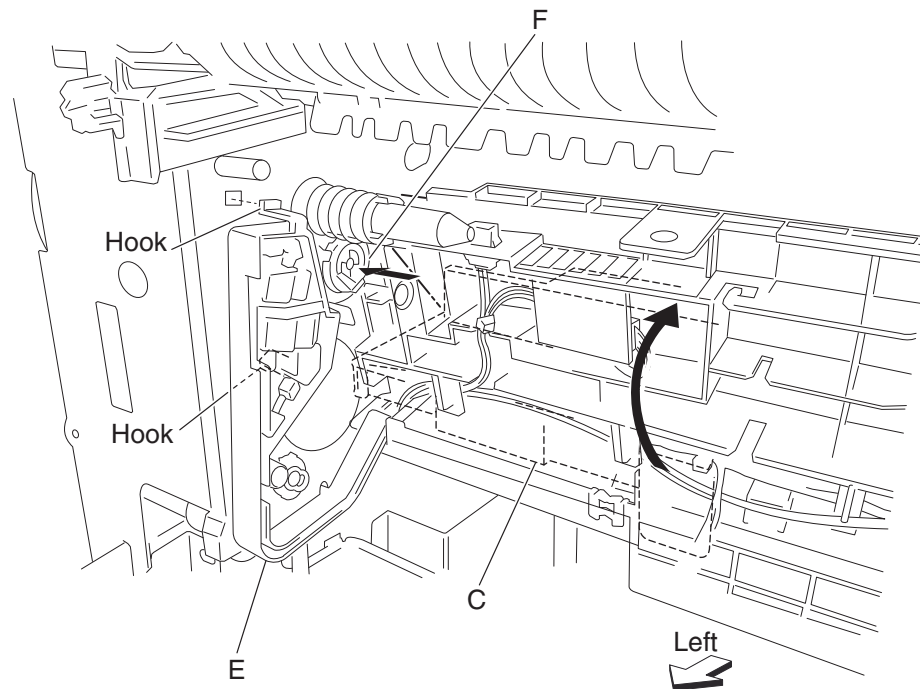


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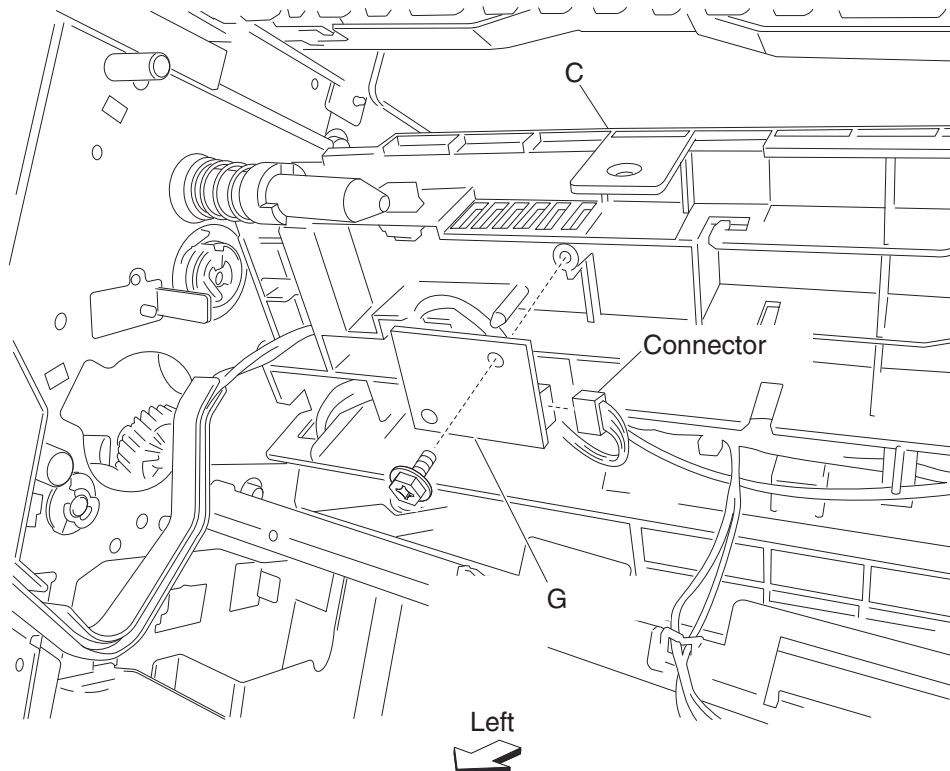


Go Back

18. Slide the PC cartridge guide (D) toward the left side, and disconnect the connector from the PC cartridge sensor connector (E).
19. Remove the two hooks securing the transfer roll power contact (F).
20. While pressing the PC cartridge drive coupler (G), lift the front side of the PC cartridge guide (C) upward.



21. Disconnect the connector from the sensor (humidity and temperature) (H).
22. Remove the screw securing the sensor (humidity and temperature) (H) to the PC cartridge guide (C).
23. Remove the sensor (humidity and temperature) (H).



Previous



Next



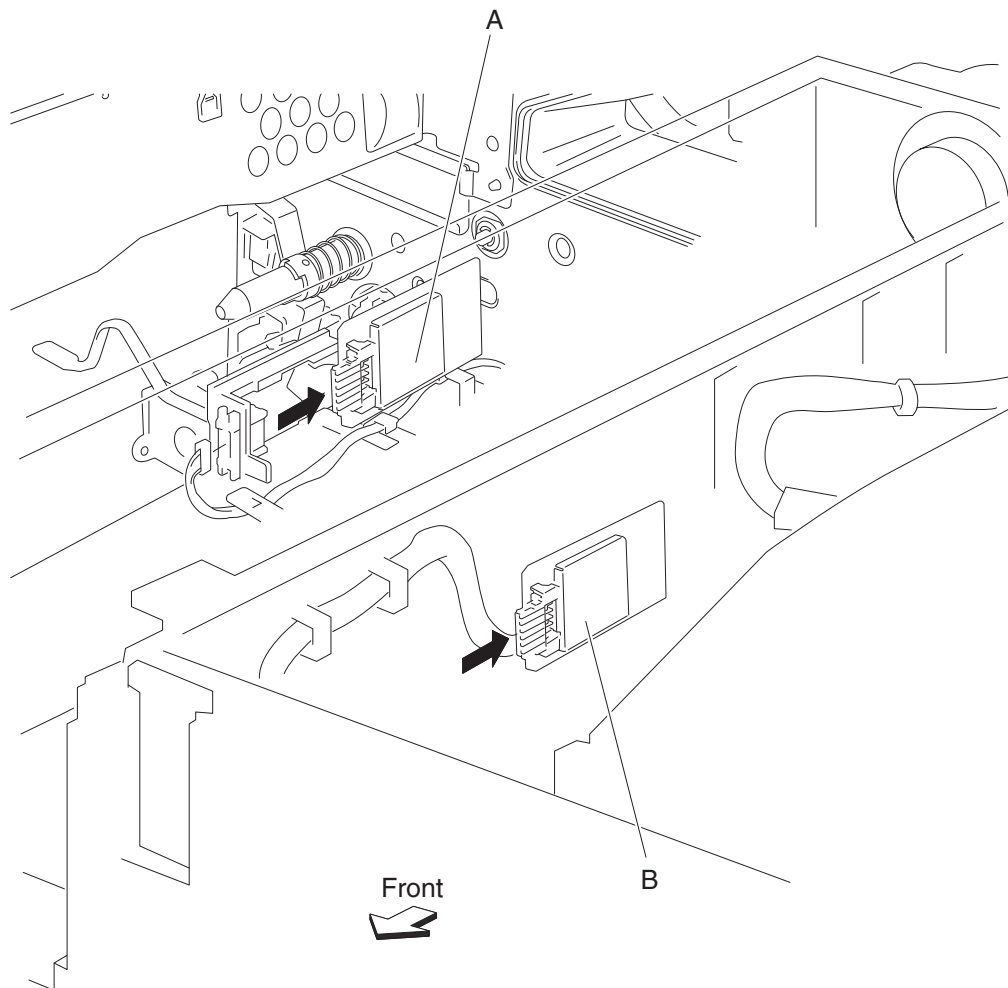
Go Back

Sensor (RFID PC cartridge) and sensor (RFID toner cartridge) removal

Note: This removal applies to the sensor (RFID PC cartridge) (A) and the sensor (RFID toner cartridge) (B).

1. Remove the top cover assembly. See **“Top cover assembly removal” on page 4-5.**
2. Remove the toner cartridge guide assembly. See **“Toner cartridge guide assembly removal” on page 4-95.**
3. Disconnect the connector from the sensor (RFID PC cartridge) (A) or the sensor (RFID toner cartridge) (B).
4. Release the hooks securing the sensor (RFID PC cartridge) (A) or the sensor (RFID toner cartridge) (B).
5. Remove the sensor (RFID PC cartridge) (A) or sensor (RFID toner cartridge) (B) by sliding it out in the direction of the arrow.

Note: The sensor (RFID PC cartridge) (A) and sensor (RFID toner cartridge) (B) require moderate force to remove.



Previous



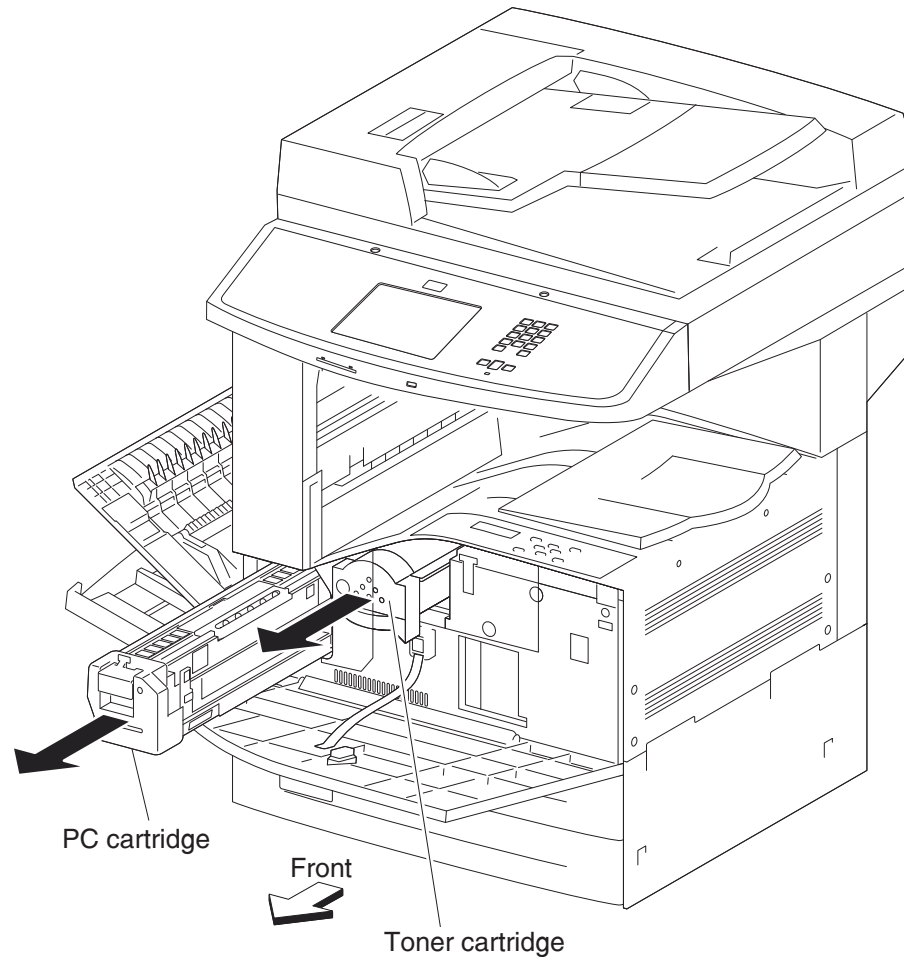
Next



Go Back

Toner cartridge guide assembly removal

1. Remove the printer front left cover. See **“Printer front left cover removal” on page 4-3.**
2. Remove the top cover assembly. See **“Top cover assembly removal” on page 4-5.**
3. Remove the PC cartridge.
4. Remove the toner cartridge.



5. Remove the printer front door assembly. See **“Printer front door assembly removal” on page 4-6.**
6. Remove the front inner cover. See **“Front inner cover removal” on page 4-8.**
7. Disconnect the two harnesses from the toner cartridge guide assembly (A), one on the right and one on the left.
8. Remove the harnesses from the clamps.
9. Remove the two screws on the front of the printer securing the toner cartridge guide assembly (A).
10. Open the printer left door assembly. See **“Printer left door assembly removal” on page 4-75.**
11. Remove the printer left door support strap. See **“Printer left door support strap removal” on page 4-74.**
12. Remove the screw securing the toner add chute (B) to the frame.

Previous



Next

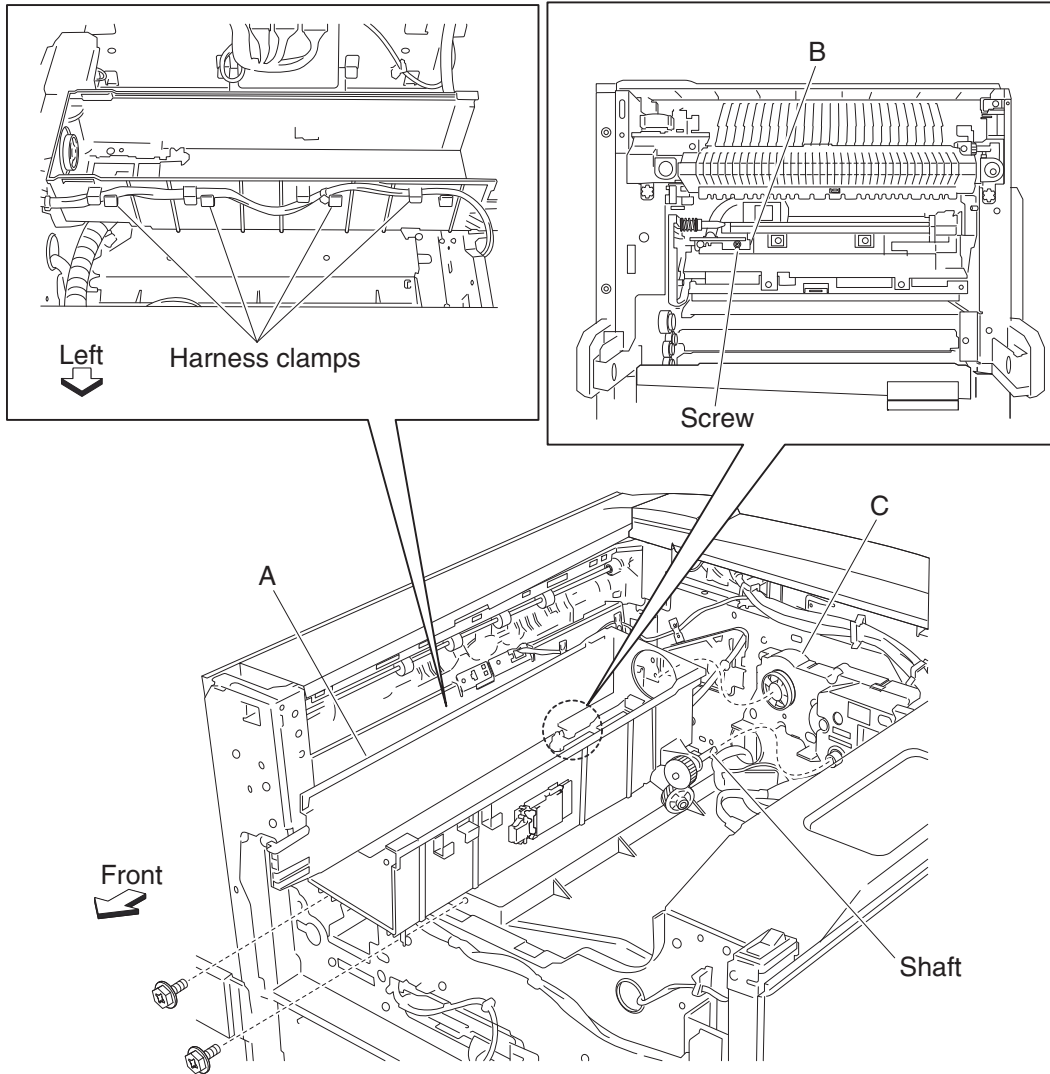


Go Back

13. While moving the toner cartridge guide assembly (A) to the left, release the toner add chute (B) from the frame. Remove the toner cartridge guide assembly (C) from the printer.

Note: Remove all spilled toner from the printer.

Note: Before reinstalling, ensure the shaft on the toner cartridge guide assembly is inserted into the toner add motor assembly (C).



Note: Before reinstalling, ensure the shaft (C) on the toner cartridge guide assembly (A) is inserted into the toner add motor assembly (D).

Previous



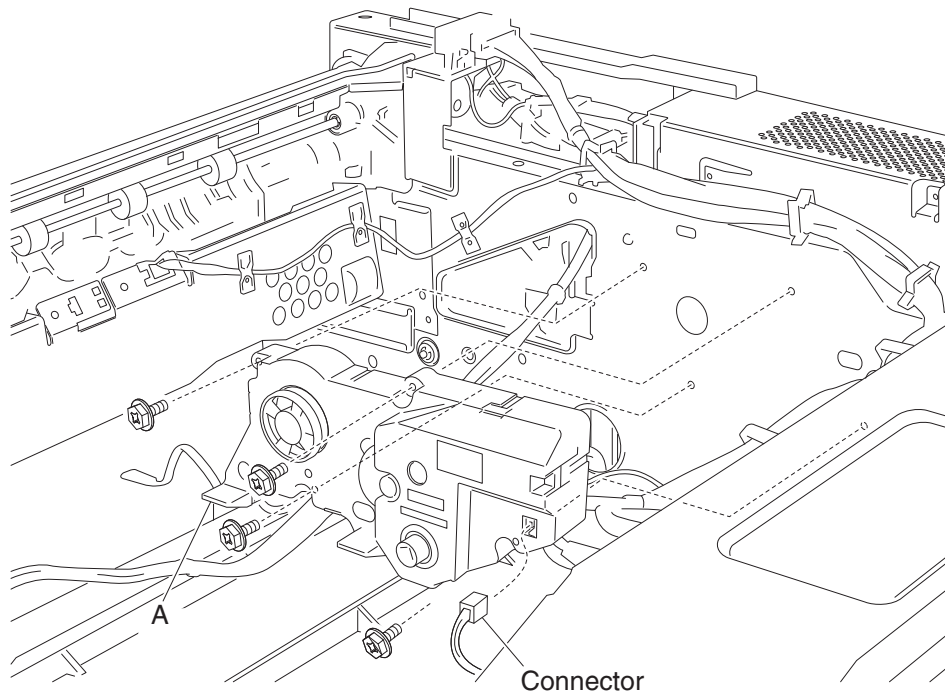
Next



Go Back

Toner add motor assembly removal

1. Remove the printer front left cover. See **“Printer front left cover removal”** on page 4-3.
2. Remove the top cover assembly. See **“Top cover assembly removal”** on page 4-5.
3. Remove the PC cartridge.
4. Remove the toner cartridge.
5. Remove the printer front door assembly. See **“Printer front door assembly removal”** on page 4-6.
6. Remove the front inner cover. See **“Front inner cover removal”** on page 4-8.
7. Remove the toner cartridge guide assembly. See **“Toner cartridge guide assembly removal”** on page 4-95.
8. Disconnect the connector from the toner add motor assembly (A).
9. Remove the four screws securing the toner add motor assembly (A).
10. Remove the toner add motor assembly (A).



Note: Before reinstalling, ensure the shaft on the toner cartridge guide assembly is inserted into the toner add motor assembly (A).

Previous



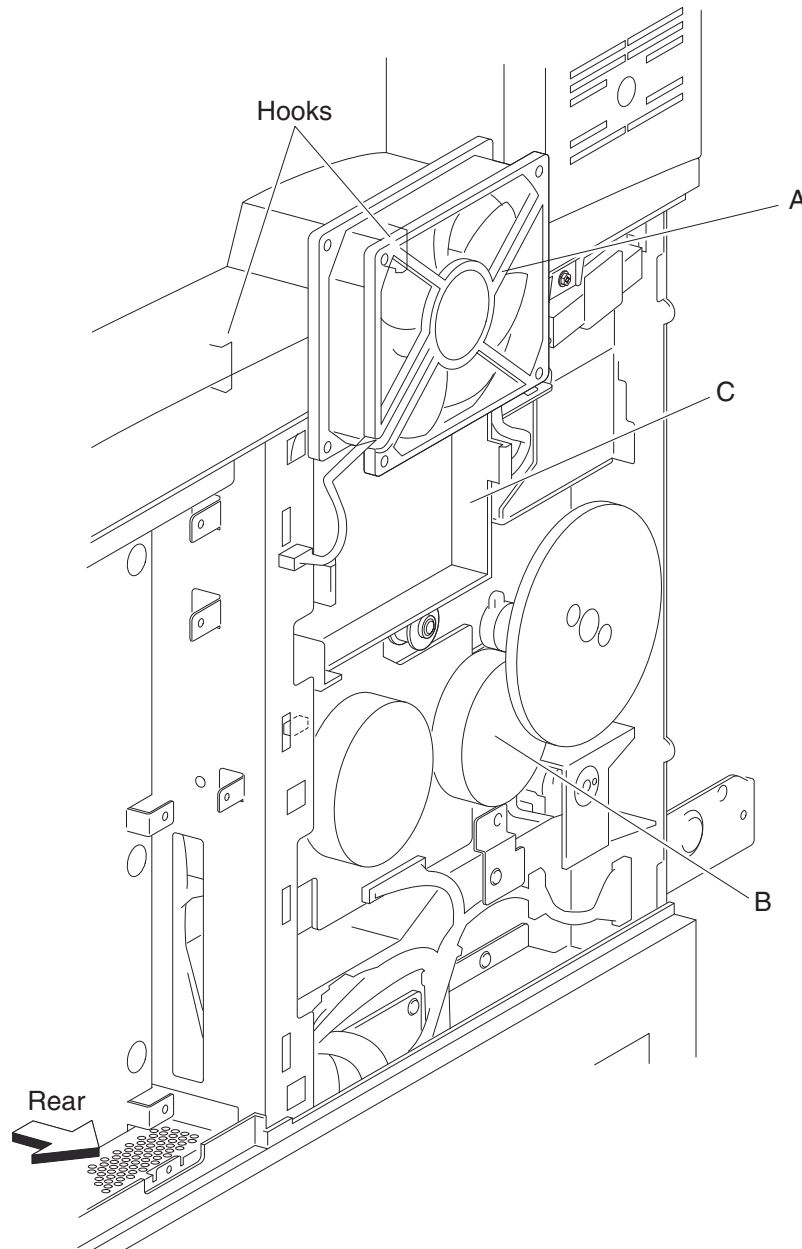
Next



Go Back

Fuser cooling fan removal

1. Remove the rear RIP card cover. See **“Rear RIP card cover removal”** on page 4-13.
2. Remove the rear motor cover. See **“Rear motor cover removal”** on page 4-11.
3. Disconnect the connector from the fuser cooling fan (A) from the dual drive motor assembly (B).
4. Release the two hooks securing the fuser cooling fan (A) to the fan duct (C).
5. Remove the fuser cooling fan (A).



Note: Before reinstalling, the fuser cooling fan (A) must be installed with the center label facing outward.

Previous



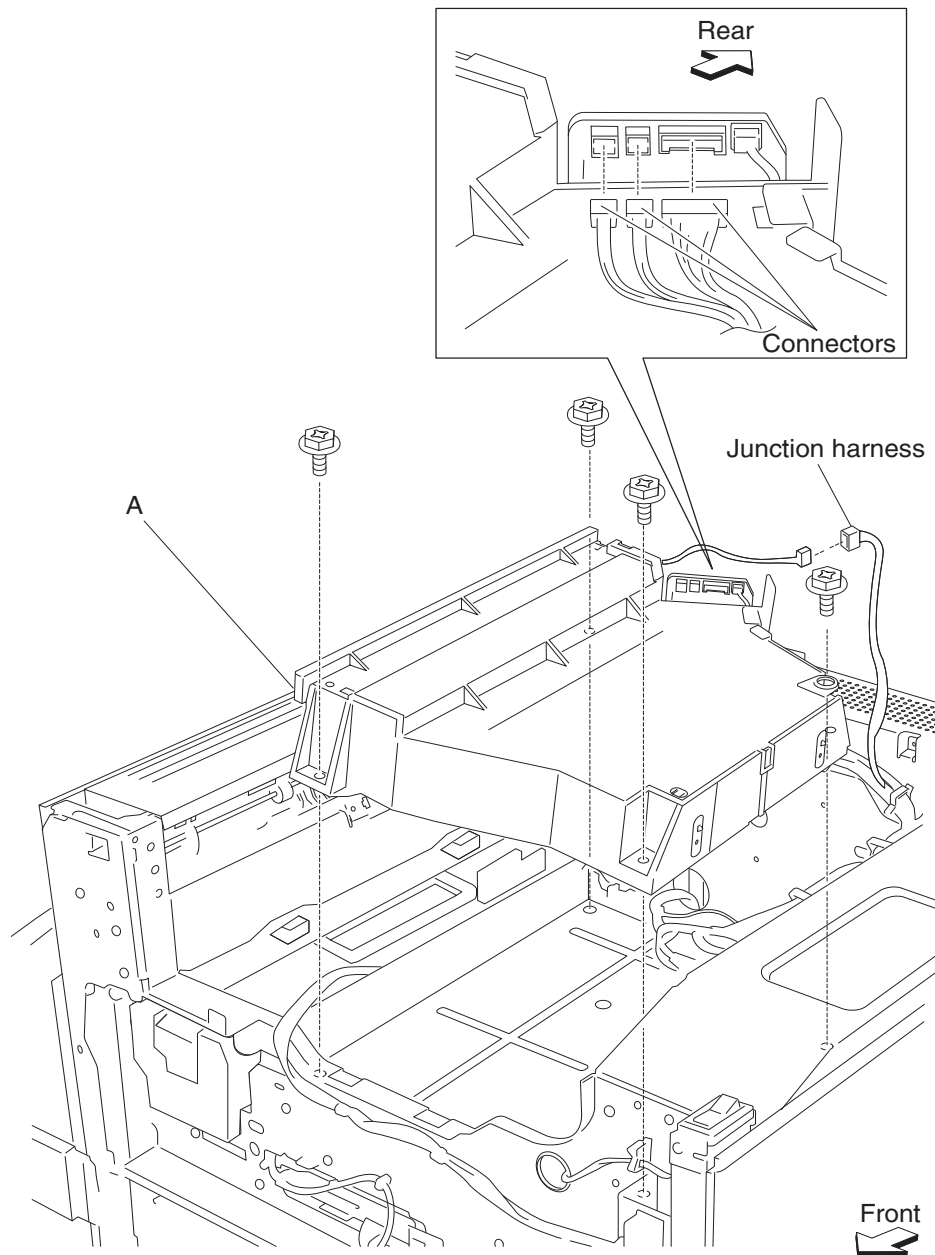
Next



Go Back

Printhead assembly removal

1. Remove the top cover assembly. See **“Top cover assembly removal”** on page 4-5.
2. Open the printer front door assembly. See **“Printer front door assembly removal”** on page 4-6.
3. Remove the PC cartridge.
4. Remove the toner cartridge.
5. Remove the printer front door assembly. See **“Printer front door assembly removal”** on page 4-6.
6. Remove the front inner cover. See **“Front inner cover removal”** on page 4-8.
7. Remove the toner cartridge guide assembly. See **“Toner cartridge guide assembly removal”** on page 4-95.
8. Disconnect the three connectors from the printhead assembly (A).
9. Disconnect the connector from the junction harness.
10. Remove the four screws securing the printhead assembly (A).
11. Remove the printhead assembly (A) by lifting it upward.



Previous



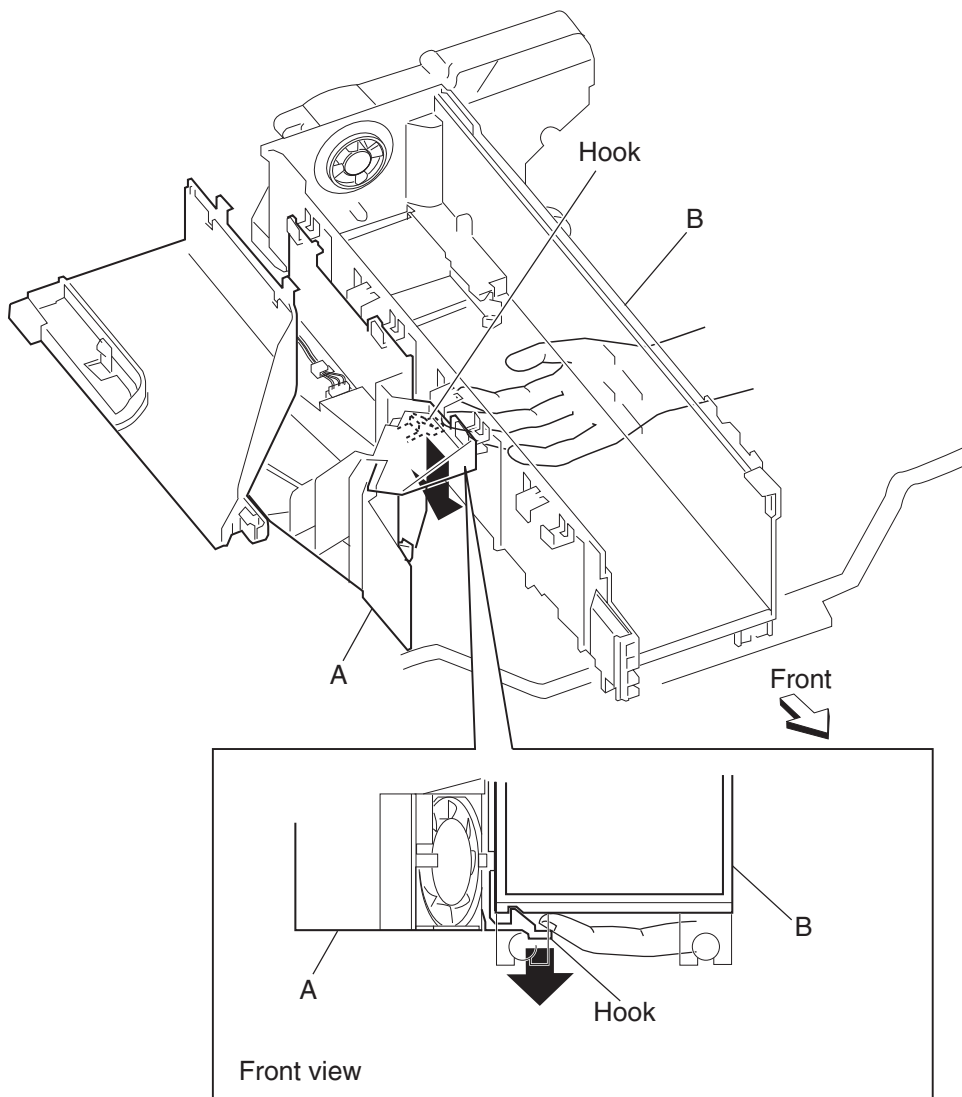
Next



Go Back

PC cartridge cooling fan duct removal

1. Remove the top cover assembly. See **“Top cover assembly removal”** on page 4-5.
2. Disconnect the harness from the duct connector.
3. Release the connector harness from the clamp on the PC cartridge cooling fan duct (A).
4. Release the hook securing the PC cartridge cooling fan duct (A) to the toner cartridge guide assembly (B).



Previous

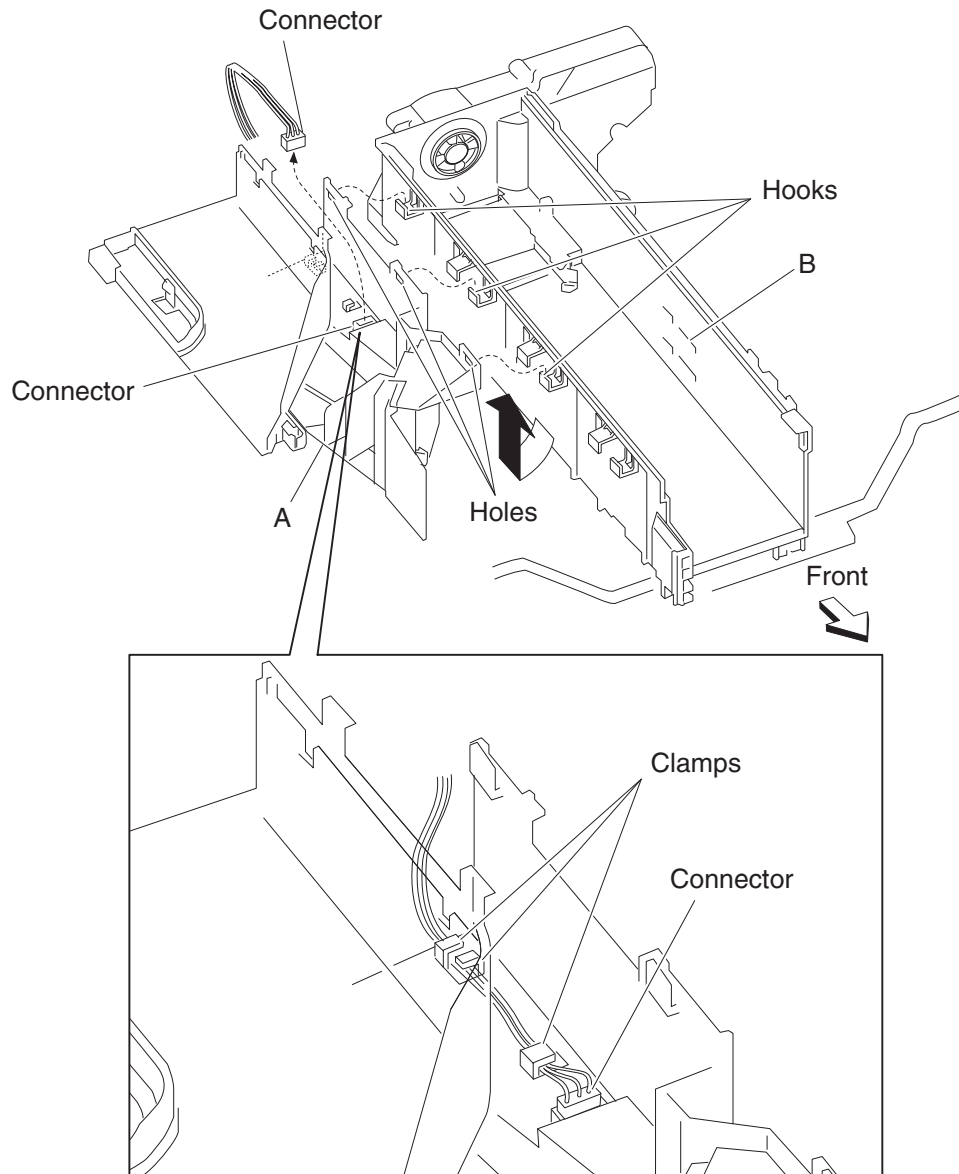


Next



Go Back

5. Move the PC cartridge cooling fan duct (A) in the direction of the arrow while lifting the left side, to release the hook securing it to the toner cartridge guide assembly (B).
6. Remove the PC cartridge cooling fan duct (A).



Previous



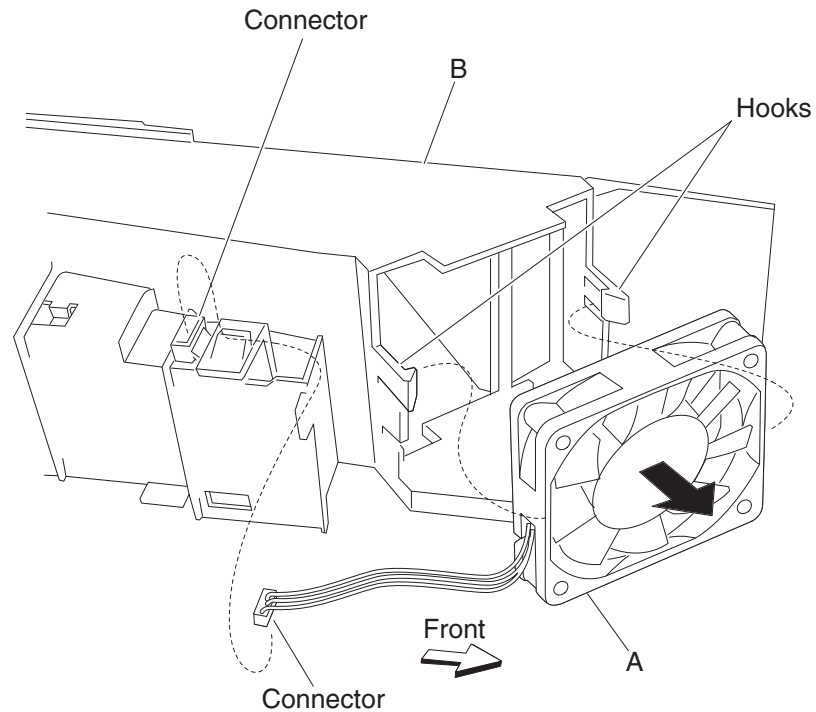
Next



Go Back

PC cartridge cooling fan removal

1. Remove the top cover assembly. See **“Top cover assembly removal”** on page 4-5.
2. Remove the PC cartridge cooling fan duct. See **“PC cartridge cooling fan duct removal”** on page 4-100.
3. Disconnect the harness of the PC cartridge cooling fan (A) to the PC cartridge cooling fan duct (B).
4. Release two hooks securing the PC cartridge cooling fan (A) to the PC cartridge cooling fan duct (B).
Note: Use care in handling the PC cartridge cooling fan duct hooks, as they easily break.
5. Release the harness of the PC cartridge cooling fan (A) from the slot in the PC cartridge cooling fan duct (B).
6. Remove the PC cartridge cooling fan (A).



Note: Before reinstalling the PC cartridge cooling fan (A), ensure the fan blade is facing toward the front of the machine.

Previous



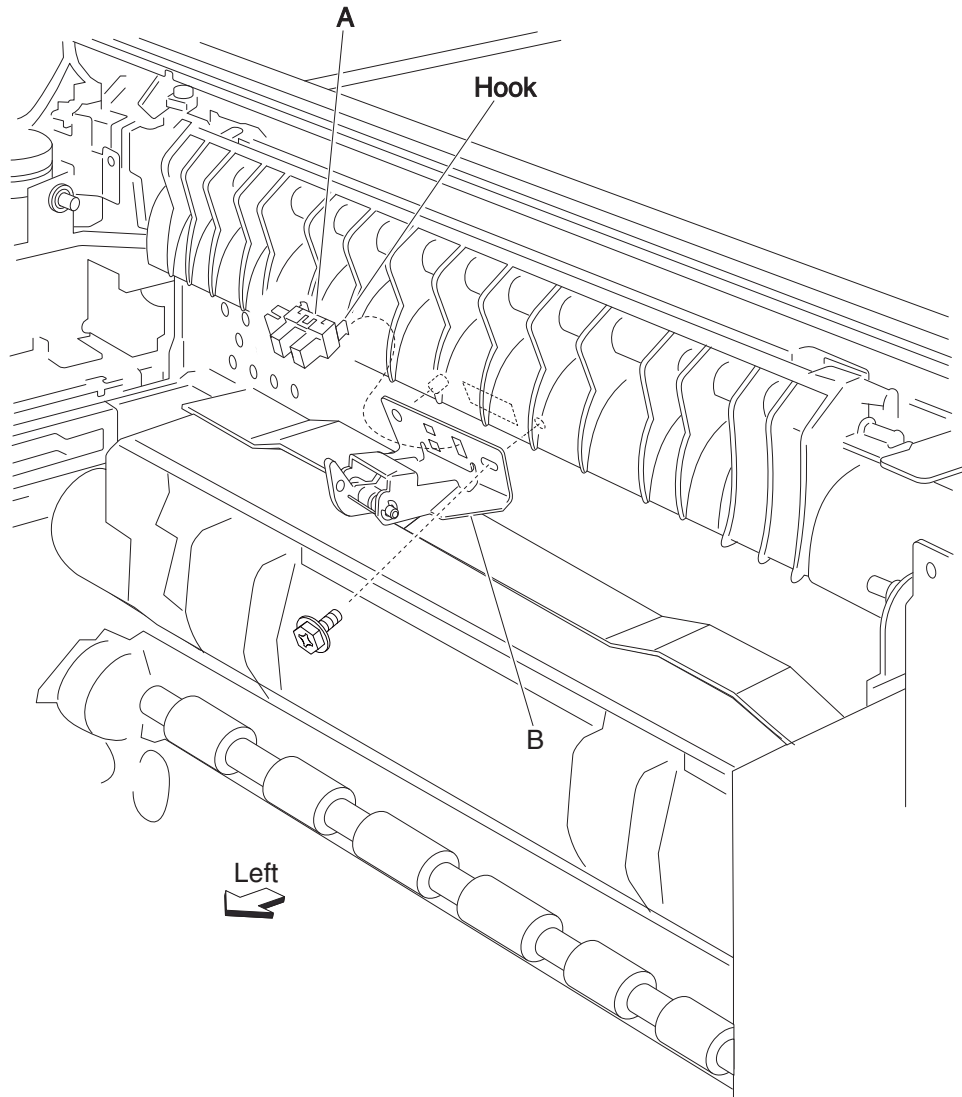
Next



Go Back

Sensor (fuser exit) removal

1. Open the printer left door assembly.
2. Remove the fuser unit. See **“Fuser unit assembly removal”** on page 4-104.
3. Disconnect the connector from the sensor (fuser exit) (A).
4. Remove the screw securing the bracket (B).
5. Remove the three hooks securing the sensor (fuser exit) (A) to the bracket (B).
6. Remove the sensor (fuser exit) (A).



Previous



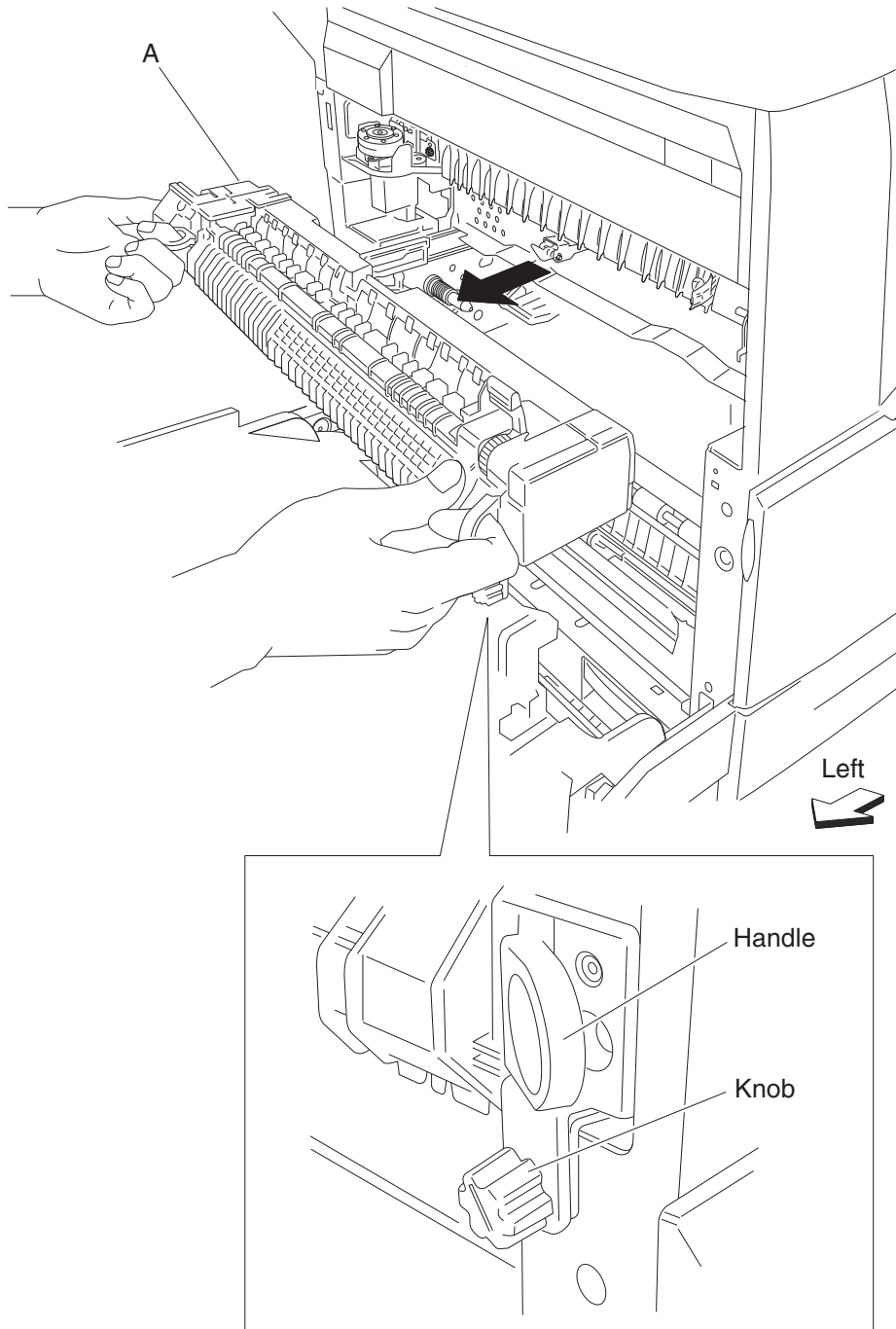
Next



Go Back

Fuser unit assembly removal

1. Open the printer left cover assembly.
2. Loosen the two colored knobs securing the fuser unit (A).
3. Pull on the two colored handles to remove the fuser unit (A).



Previous



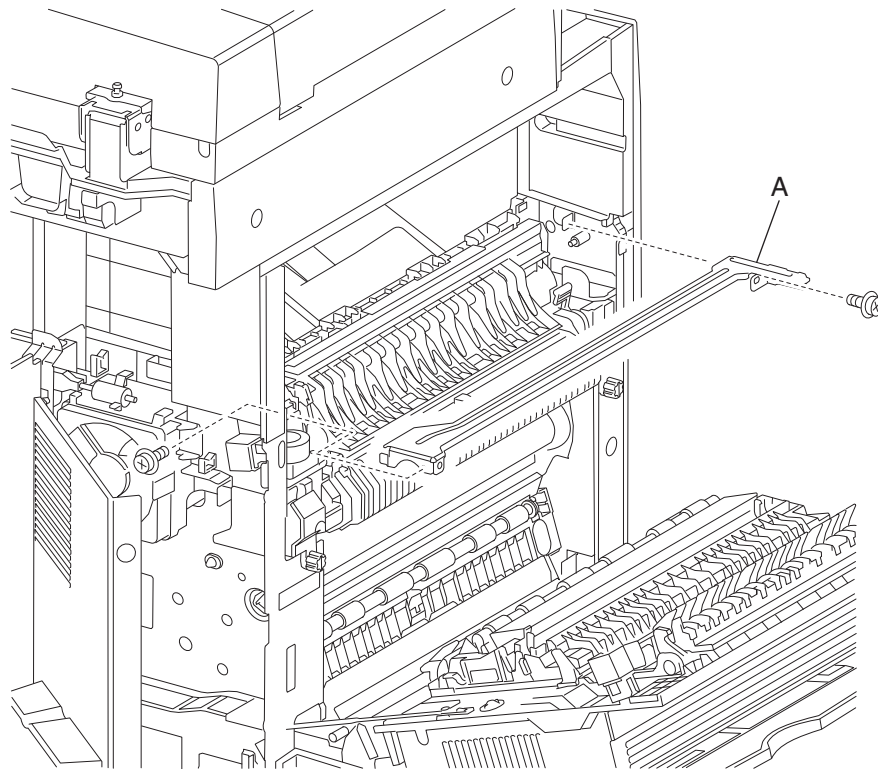
Next



Go Back

Exit 1 media shift assembly removal

1. Remove the rear RIP card cover. See **“Rear RIP card cover removal”** on page 4-13.
2. Remove the rear motor cover. See **“Rear motor cover removal”** on page 4-11.
3. Remove the rear upper cover. See **“Rear upper cover removal”** on page 4-15.
4. Open the printer left door assembly.
5. Remove the exit 2 unit assembly. See **“Exit 2 unit assembly removal”** on page 4-322.
6. Open the printer front door assembly. See **“Printer front door assembly removal”** on page 4-6.
7. Remove the printer front left cover. See **“Printer front left cover removal”** on page 4-3.
8. Remove the two screws securing the bracket (A).
9. Remove the bracket (A) by lifting it upward.
10. Remove the exit 1 drive belt. See **“Exit 1 drive belt removal”** on page 4-113.



Note: Disconnect the two connectors from the sensor (exit 1 media shift) and the sensor (exit 1 bin full).

Previous

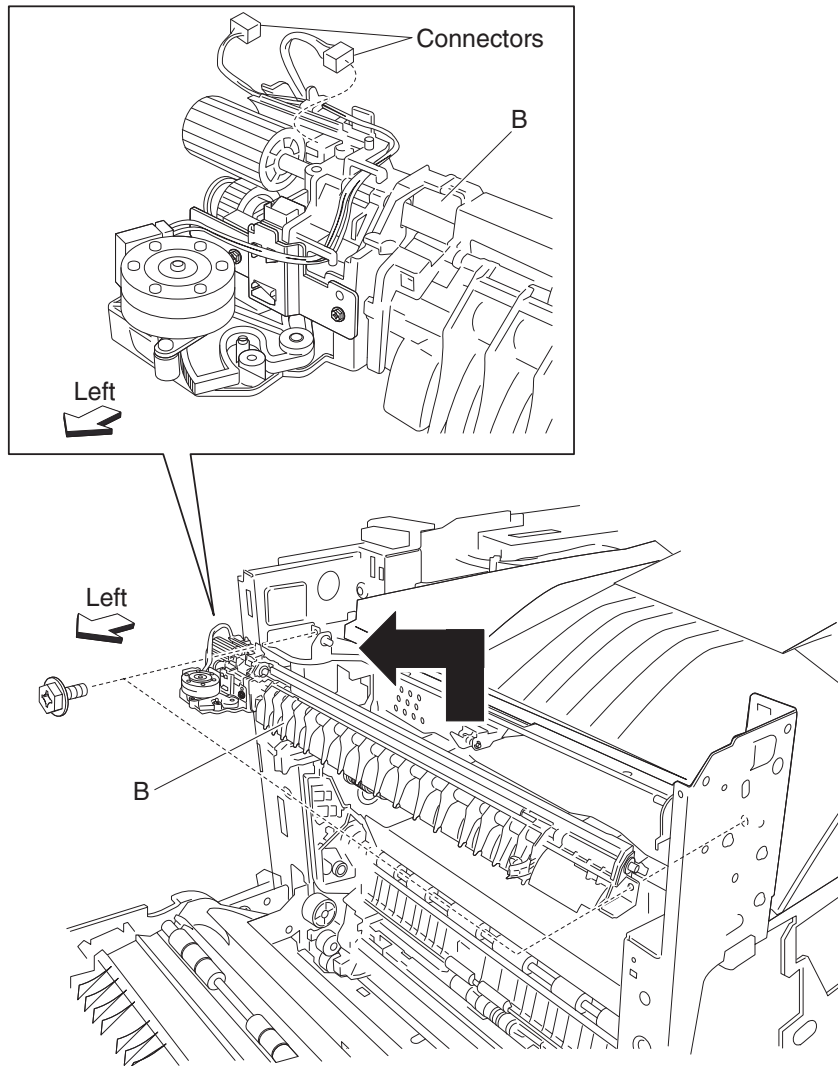


Next



Go Back

11. Disconnect the two connectors from the exit 1 media shift assembly (B).
12. Remove the two screws securing the exit 1 media shift assembly (B) to the printer.
13. Remove the exit 1 media shift assembly (B) by lifting it upward and outward in the direction of the arrow.
14. Remove the two screws securing the exit 1 media shift assembly (B).
15. Remove the exit 1 media shift assembly (B) by lifting it upward and outward in the direction of the arrow.



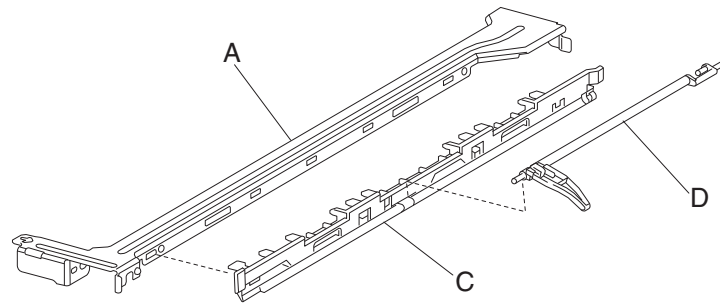
Previous



Next



Go Back



Previous



Next



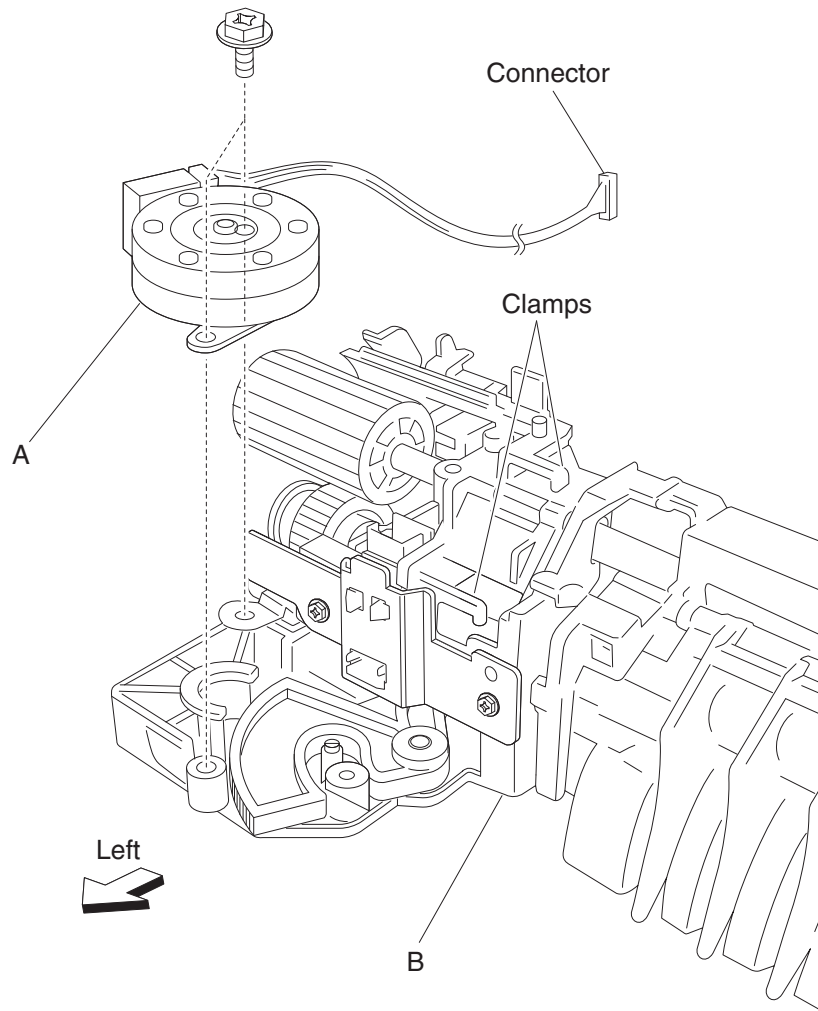
Go Back

Reinstallation procedure for the bracket (A):

1. Release the hooks securing the plastic guide (C) that is attached to the bracket (A).
2. Remove the plastic guide (C) from the bracket (A).
3. Install the bracket (A).
4. Install the plastic guide (C) and the standard bin full exit 1 actuator shaft (D) at the same time.
5. Make sure the standard bin full exit 1 actuator shaft (D) operates smoothly without binding.

Media shift motor removal

1. Remove the rear RIP card cover. See **“Rear RIP card cover removal”** on page 4-13.
2. Remove the rear motor cover. See **“Rear motor cover removal”** on page 4-11.
3. Remove the rear upper cover. See **“Rear upper cover removal”** on page 4-15.
4. Open the printer left door assembly.
5. Remove the exit 2 unit assembly. See **“Exit 2 unit assembly removal”** on page 4-322.
6. Open the printer front door assembly.
7. Remove the printer front left cover. See **“Printer front left cover removal”** on page 4-3.
8. Remove the exit 1 media shift assembly. See **“Exit 1 media shift assembly removal”** on page 4-105.
9. Disconnect the connector from the media shift motor (A).
10. Remove the two screws securing the media shift motor (A) to the exit 1 media shift assembly (B).
11. Remove the media shift motor (A).



Warning: Before reinstalling, secure the media shift motor (A) harness to the clamps on the exit 1 media shift assembly (B) to prevent damage.

Previous



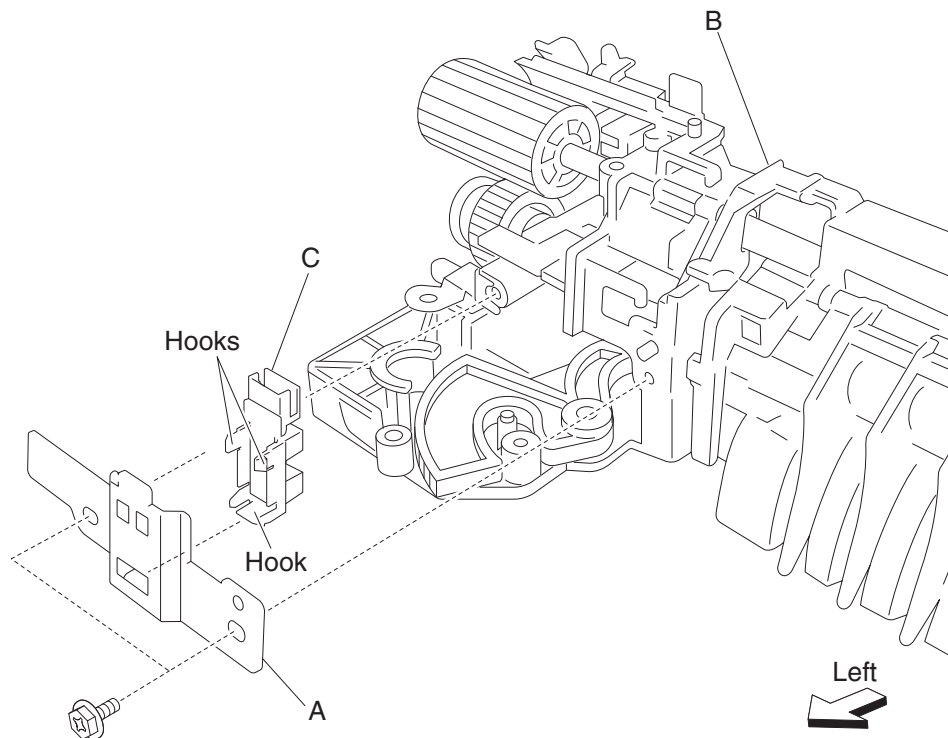
Next



Go Back

Sensor (exit 1 media shift) removal

1. Remove the rear RIP card cover. See **“Rear RIP card cover removal”** on page 4-13.
2. Remove the rear motor cover.
3. Remove the rear upper cover. See **“Rear upper cover removal”** on page 4-15.
4. Open the printer left door assembly.
5. Remove the exit 2 unit assembly. See **“Exit 2 unit assembly removal”** on page 4-322.
6. Open the printer front door assembly.
7. Remove the printer front left cover. See **“Printer front left cover removal”** on page 4-3.
8. Remove the exit 1 media shift assembly. See **“Exit 1 media shift assembly removal”** on page 4-105.
9. Remove the media shift motor. See **“Media shift motor removal”** on page 4-108.
10. Remove the two screws securing the bracket (A) to the exit 1 media shift assembly (B).
11. Remove the bracket (A).
12. Release the hooks securing the sensor (exit 1 media shift) (C) to the bracket (A).
13. Remove the sensor (exit 1 media shift) (C).



Previous



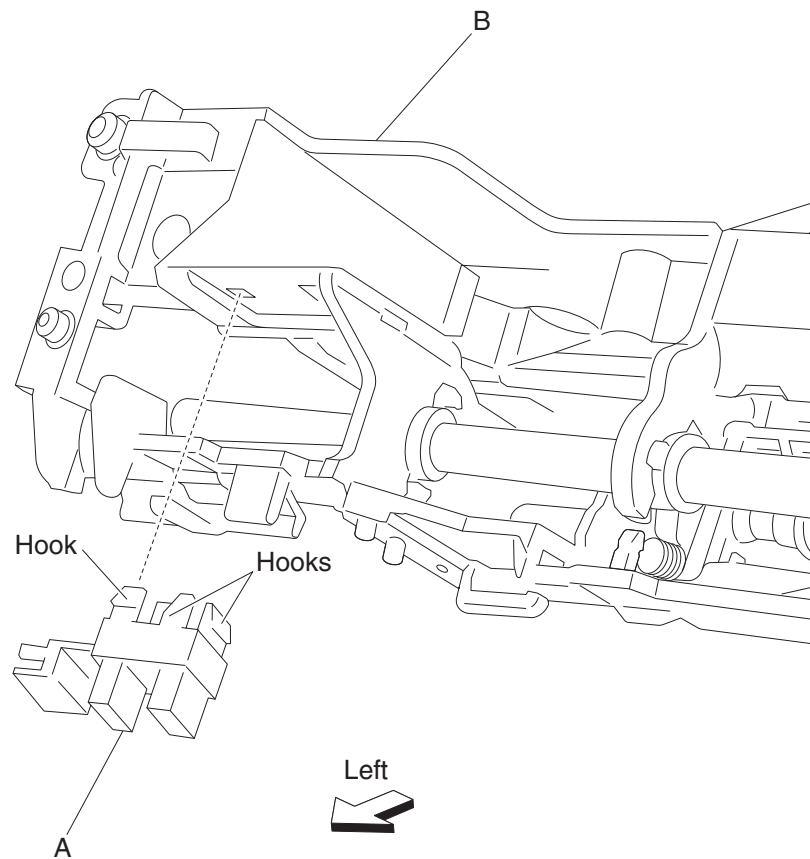
Next



Go Back

Sensor (exit 1 bin full) removal

1. Remove the rear RIP card cover. See **“Rear RIP card cover removal” on page 4-13.**
2. Remove the rear motor cover. See **“Rear motor cover removal” on page 4-11.**
3. Remove the rear upper cover. See **“Rear upper cover removal” on page 4-15.**
4. Open the printer left door assembly.
5. Remove the exit 2 unit assembly. See **“Exit 2 unit assembly removal” on page 4-322.**
6. Open the printer front door assembly.
7. Remove the printer front left cover. See **“Printer front left cover removal” on page 4-3.**
8. Remove the exit 1 media shift assembly. See **“Exit 1 media shift gear removal” on page 4-111.**
9. Release the hooks securing the sensor (exit 1 bin full) (A) to the exit 1 media shift assembly (B).
10. Remove the sensor (exit 1 bin full) (A).



Previous



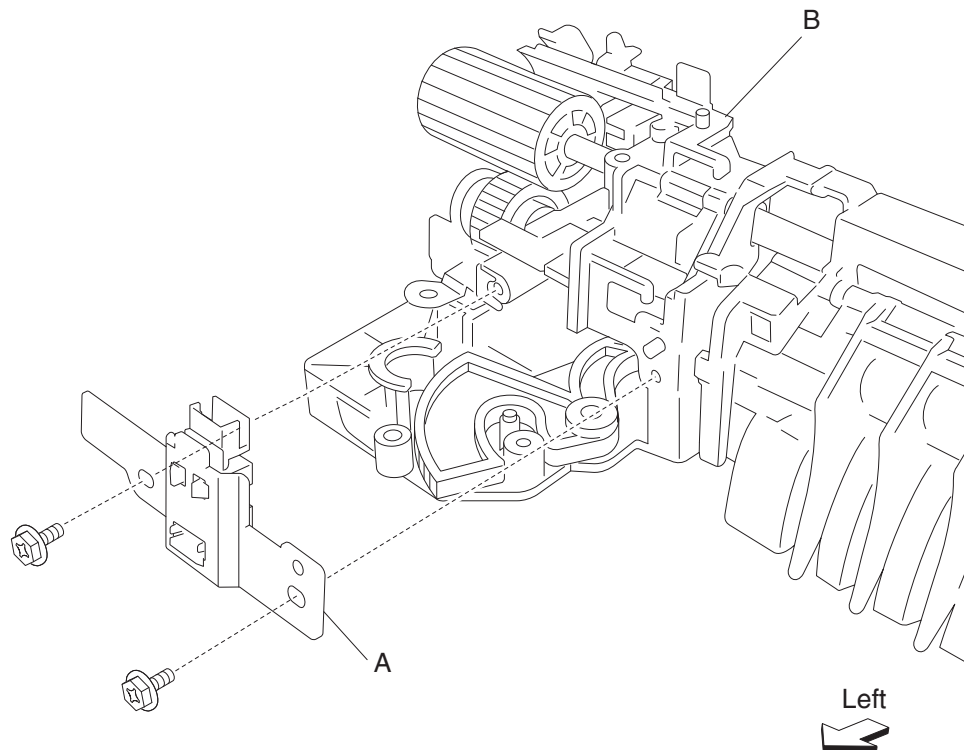
Next



Go Back

Exit 1 media shift gear removal

1. Remove the rear RIP card cover. See **“Rear RIP card cover removal”** on page 4-13.
2. Remove the rear motor cover. See **“Rear motor cover removal”** on page 4-11.
3. Remove the rear upper cover. See **“Rear upper cover removal”** on page 4-15.
4. Open the printer left door assembly.
5. Remove the exit 2 unit assembly. See **“Exit 2 unit assembly removal”** on page 4-322.
6. Open the printer front door assembly.
7. Remove the printer front left cover. See **“Printer front left cover removal”** on page 4-3.
8. Remove the exit 1 media shift assembly. See **“Exit 1 media shift assembly removal”** on page 4-105.
9. Remove the exit 1 media shift motor. See **“Media shift motor removal”** on page 4-108.
10. Remove the 2 screws securing the bracket (A) to the exit 1 media shift assembly (B).
11. Remove the bracket (A) from the exit 1 media shift assembly (B).



Previous

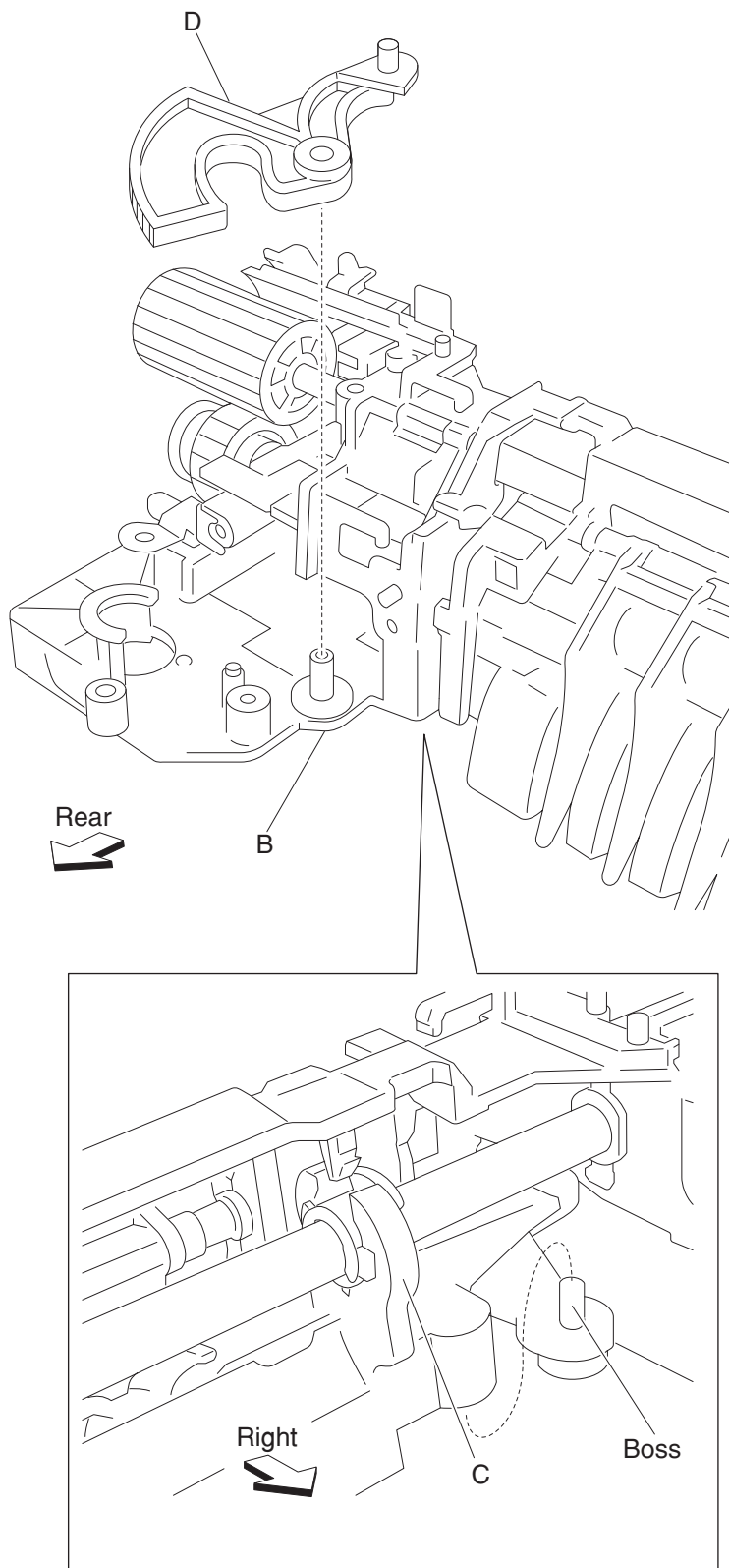


Next



Go Back

12. Slide the shift assembly (C) in order to release the shift assembly boss from the exit 1 media shift gear (D).
13. Remove the exit 1 media shift gear (D) by lifting it upward.



Previous



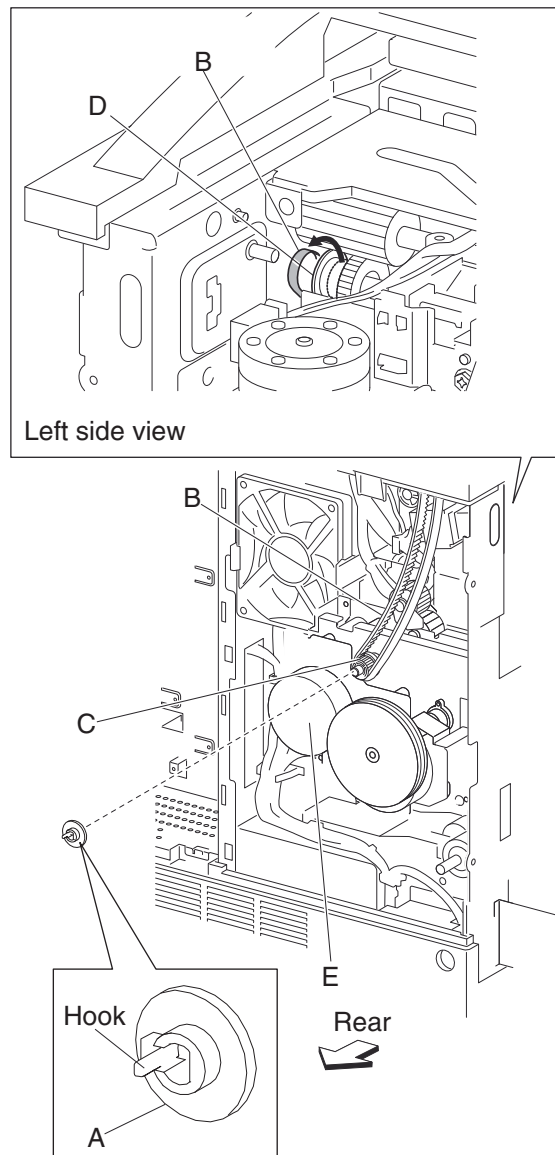
Next



Go Back

Exit 1 drive belt removal

1. Remove the rear RIP card cover. See **“Rear RIP card cover removal”** on page 4-13.
 2. Remove the rear motor cover. See **“Rear motor cover removal”** on page 4-11.
 3. Remove the exit 2 unit assembly. See **“Exit 2 unit assembly removal”** on page 4-322.
 4. Release the hook on the drive belt flange (A).
 5. Remove the drive belt flange (A).
 6. Remove the exit 1 drive belt (B) from the drive pulley - 25 tooth (C).
 7. Remove the exit 1 drive belt (B) from the exit 1 media shift assembly (D).
- Note:** The drive pulley -25 tooth (C) may become detached.



Note: Press on the exit 1 drive belt (B) while slowly turning the motor (E) by hand.

Previous



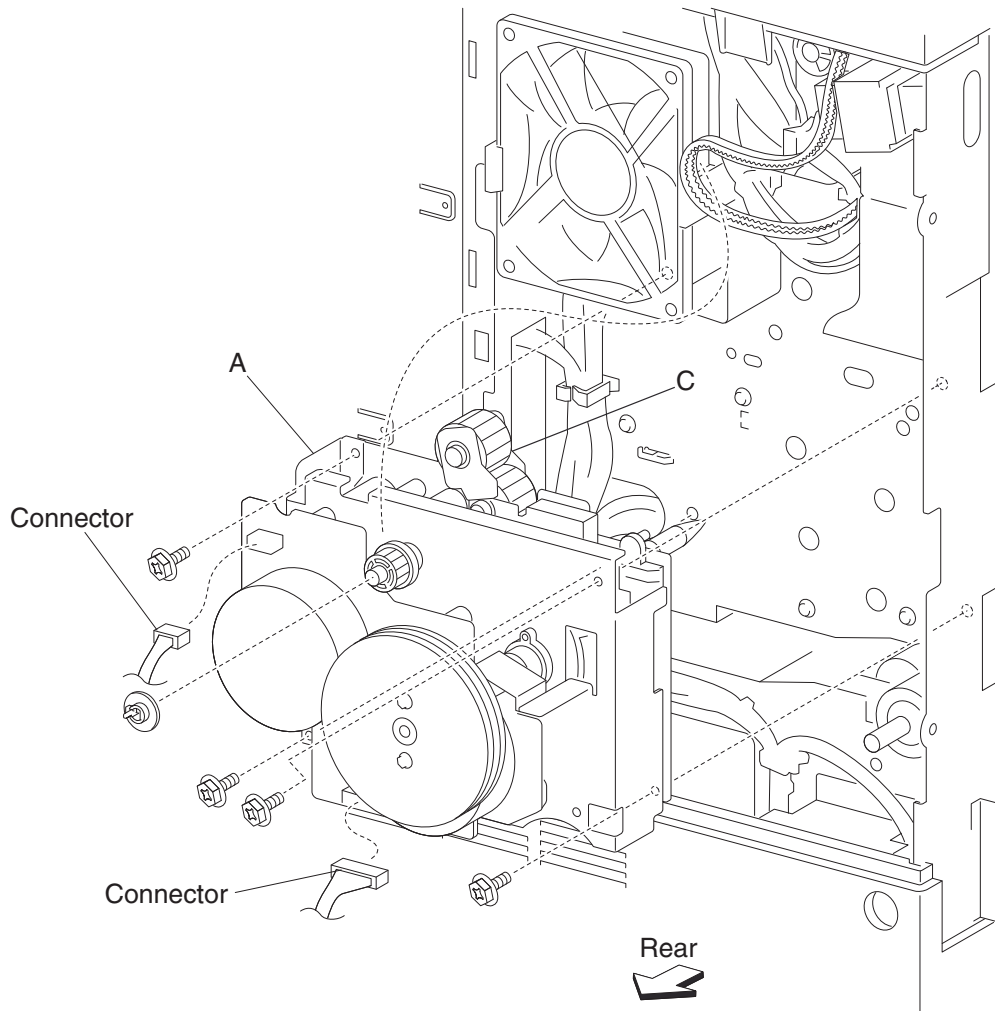
Next



Go Back

Dual drive motor assembly removal

1. Remove the rear RIP card cover. See **“Rear RIP card cover removal”** on page 4-13.
2. Remove the rear motor cover. See **“Rear motor cover removal”** on page 4-11.
3. Open the printer left door assembly.
4. Remove the PC cartridge.
5. Remove the exit 1 drive belt. See **“Exit 1 drive belt removal”** on page 4-113.
6. Disconnect the two harness connectors from the dual drive motor assembly (A).



7. Remove the four screws securing the dual drive motor assembly (A) to the printer.
8. Remove the dual drive motor assembly (A).

Warning: Depress the spring loaded gear (C) while removing the dual drive motor assembly (A) to prevent damage.

Warning: Before reinstalling, depress the spring loaded gear (C) while replacing the dual drive motor assembly (A) to prevent damage.

Previous



Next

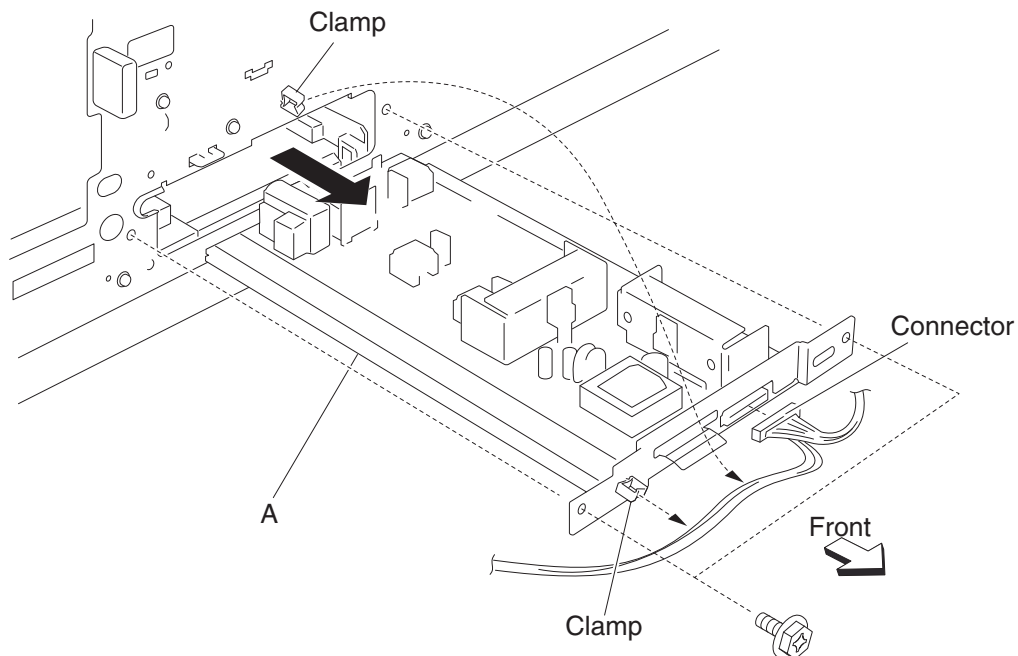


Go Back

High voltage power supply (HVPS) card removal



1. Remove the printer front left cover. See **“Printer front left cover removal”** on page 4-3.
2. Remove the top cover assembly. See **“Top cover assembly removal”** on page 4-5.
3. Remove the PC cartridge.
4. Remove the printer front door assembly. See **“Printer front door assembly removal”** on page 4-6.
5. Remove the front inner cover. See **“Front inner cover removal”** on page 4-8.
6. Disconnect the connector from the HVPS card assembly (A).
7. Release the harness from the clamps.
8. Remove the two screws securing the HVPS card assembly (A).
9. Remove the HVPS card assembly (A) by sliding it outward in the direction of the arrow.



Note: Before reinstalling, ensure the HVPS (A) is inserted into the side slots properly.

Previous



Next

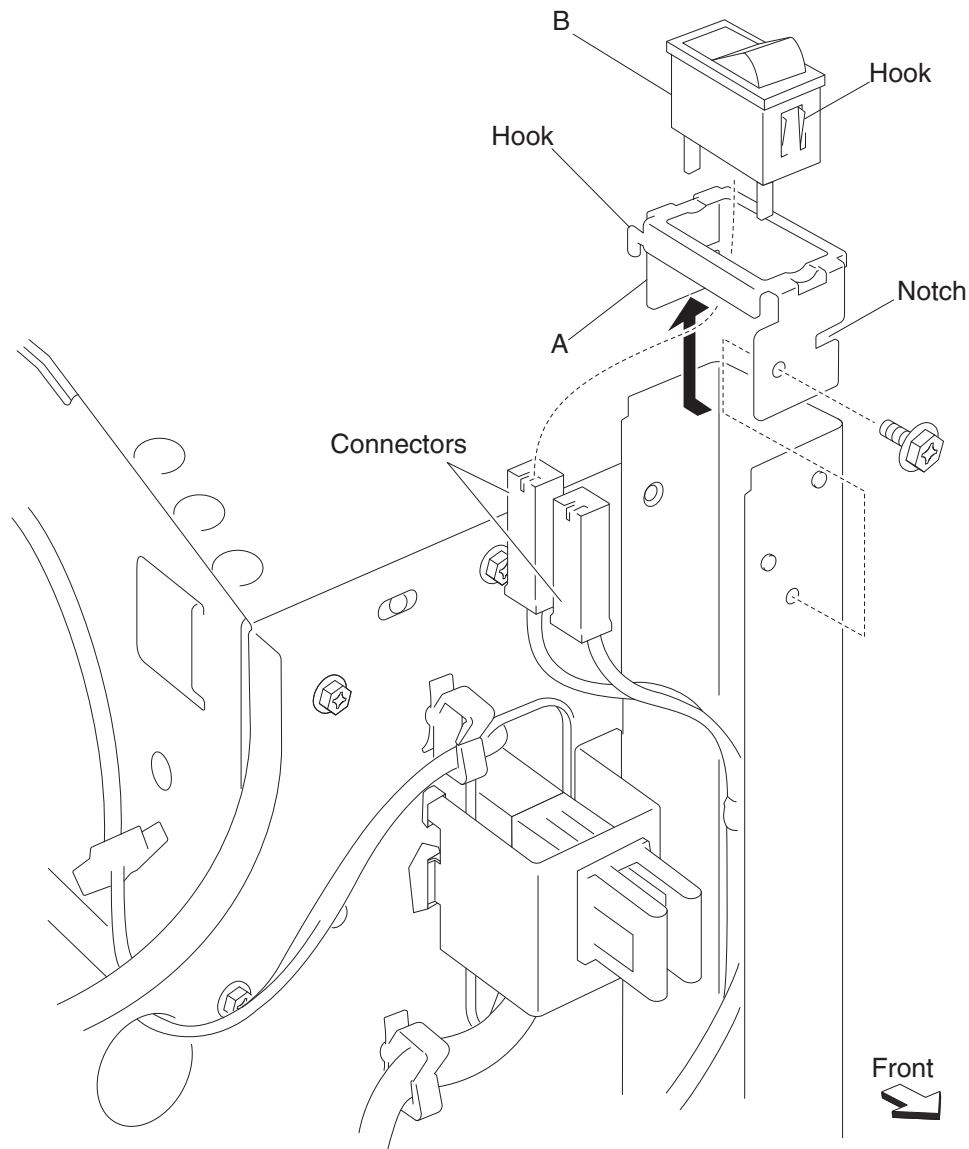


Go Back

Switch (main power) removal



1. Remove the top cover assembly. See **“Top cover assembly removal”** on page 4-5.
2. Open the printer front door assembly.
3. Remove the right upper cover. See **“Right upper cover removal”** on page 4-9.
4. Remove the screw securing the bracket (A).
5. Slide the bracket (A) to the side and then upward in the direction of the arrow.
6. Remove the bracket (A).
7. Disconnect the four connectors from the switch (main power) (B).
Note: Make note of the proper location of the four connectors.
8. Release the hooks securing the switch (main power) (B) to the bracket (A).
9. Remove the switch (main power) (B).



Warning: Before reinstalling, ensure the four connectors are plugged into their proper location to prevent damage.

Previous



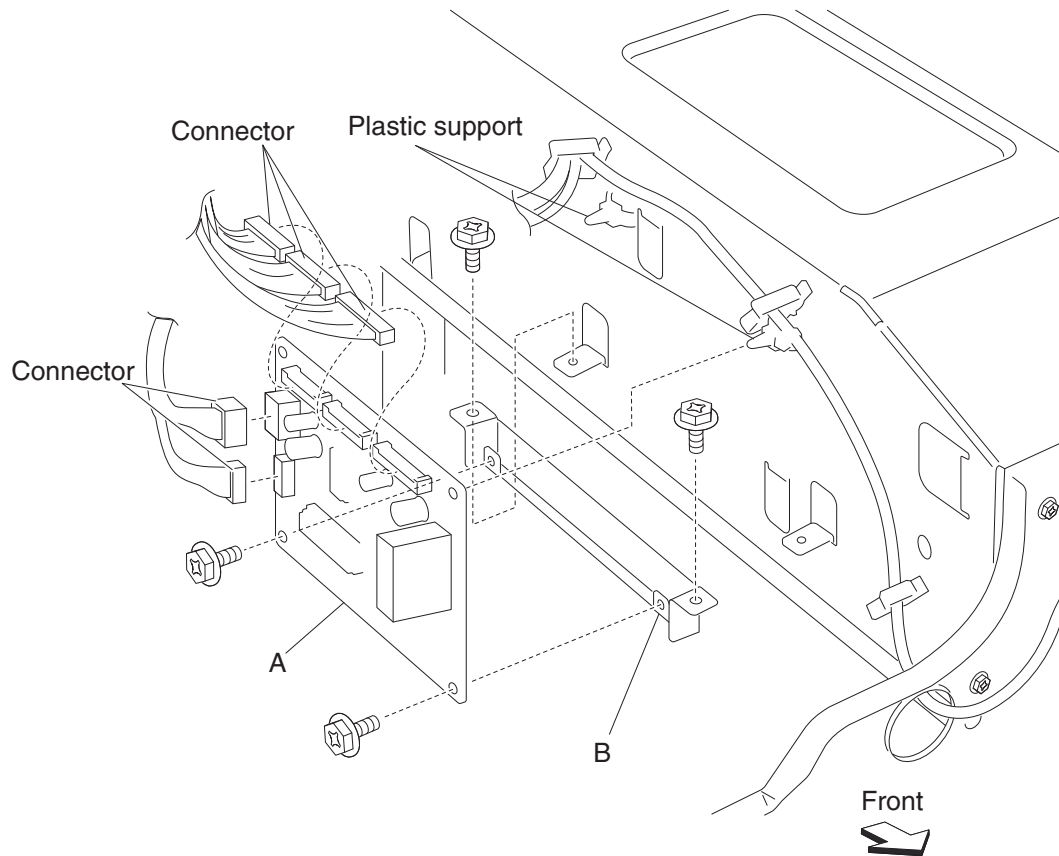
Next



Go Back

Exit interface card assembly removal

1. Remove the top cover assembly. See **“Top cover assembly removal”** on page 4-5.
2. Disconnect all the connectors from the exit interface card assembly (A).
Note: Connector P430 has a hook that must first be released.
3. Remove the two screws securing the exit interface card assembly (A).
4. Release the plastic supports securing the exit interface card assembly (A).
5. Remove the exit interface card assembly (A) along with the bracket (B).
6. Remove the two screws securing the exit interface card assembly (A) to the bracket (B).



Previous

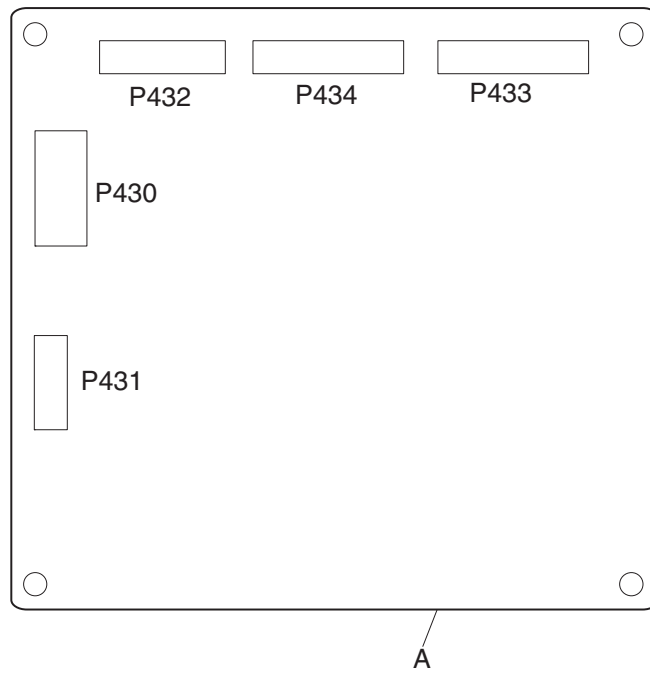


Next



Go Back

7. Remove the exit 2 card assembly (A).



Previous



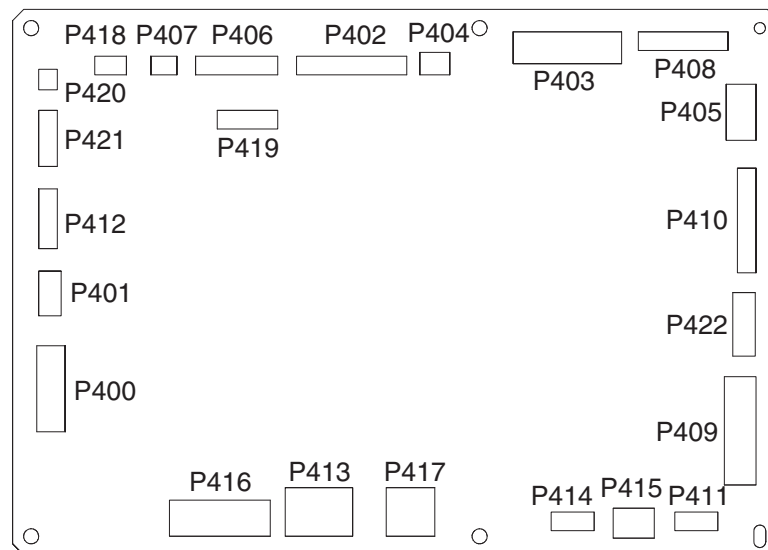
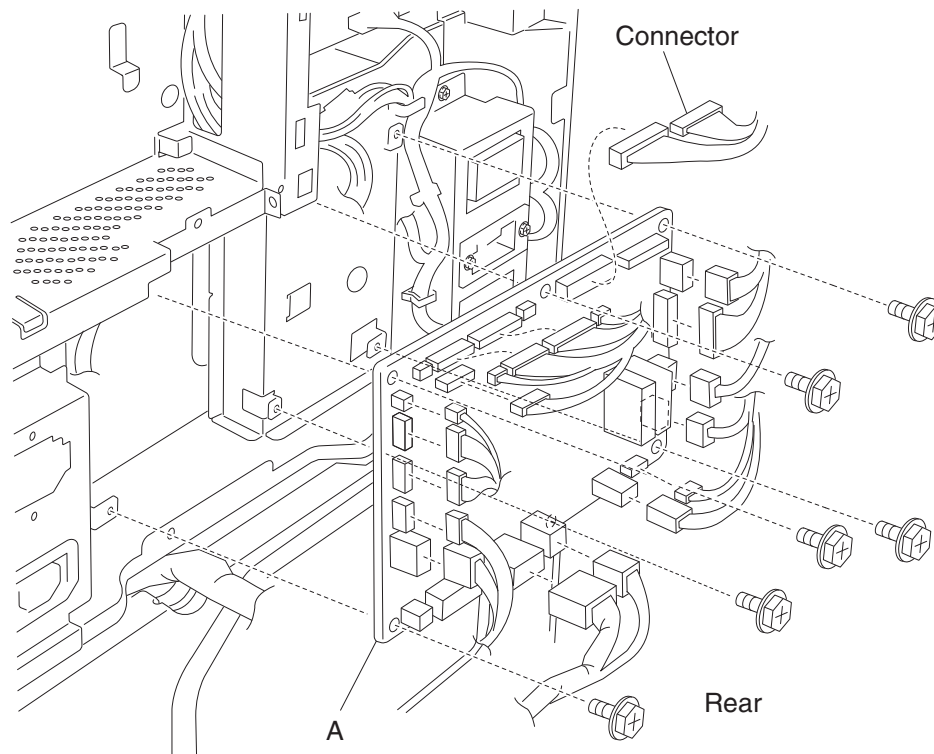
Next



Go Back

Printer engine card assembly removal

1. Remove the rear RIP card cover. See **“Rear RIP card cover removal”** on page 4-13.
2. Remove the rear motor cover. See **“Rear motor cover removal”** on page 4-11.
3. Remove the rear lower cover. See **“Rear lower cover removal”** on page 4-12.
4. Disconnect all the connectors from the engine controller card assembly (A).
Note: Connectors P405, P414, P416, and P400 have a hook that must be released.
5. Remove the six screws securing the printer engine card assembly (A).
6. Remove the printer engine card assembly (A).



Previous



Next

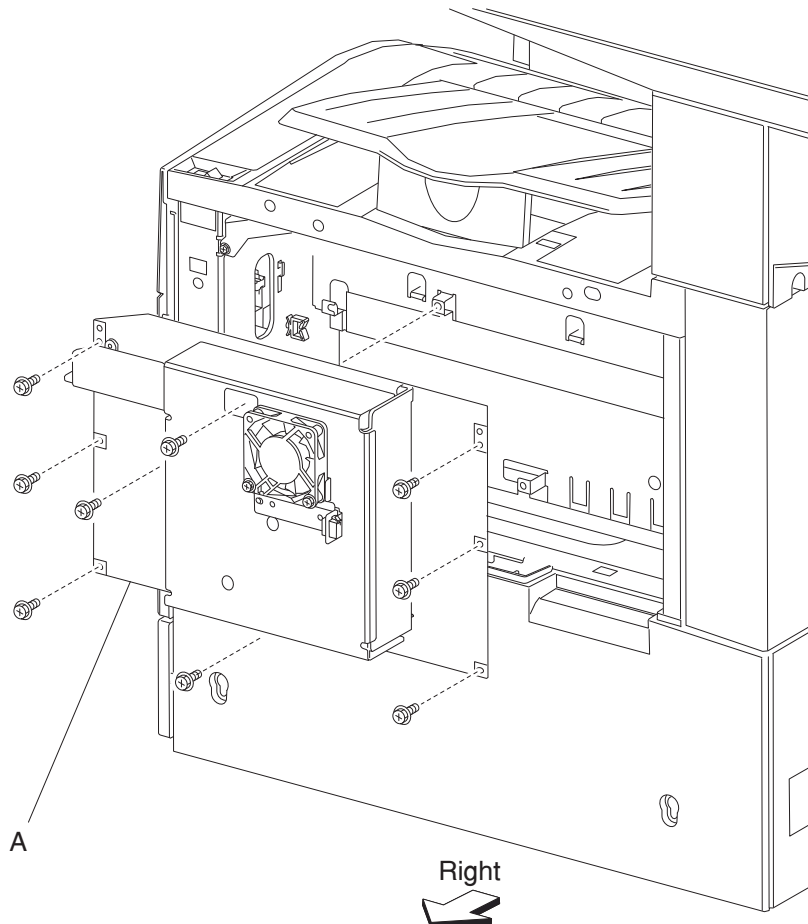
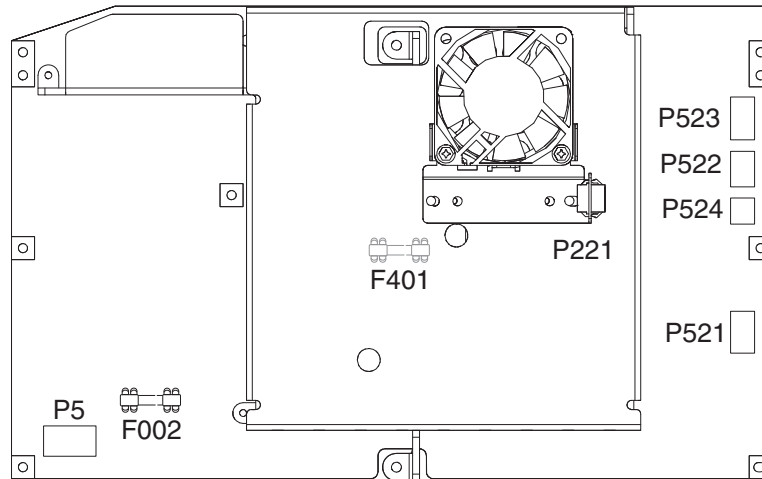


Go Back

LVPS card assembly removal



1. Remove the right upper cover. See **“Right upper cover removal”** on page 4-9.
2. Disconnect the connectors from the LVPS card assembly (A).
Note: The connectors P5, P521, P522, and P524 have hooks that must first be released.
3. Remove the nine screws securing the LVPS card assembly (A) to the printer.
4. Remove the LVPS card assembly (A).
Note: Grasp the card by the edge; avoid touching the bottom of the LVPS assembly (A).



Previous



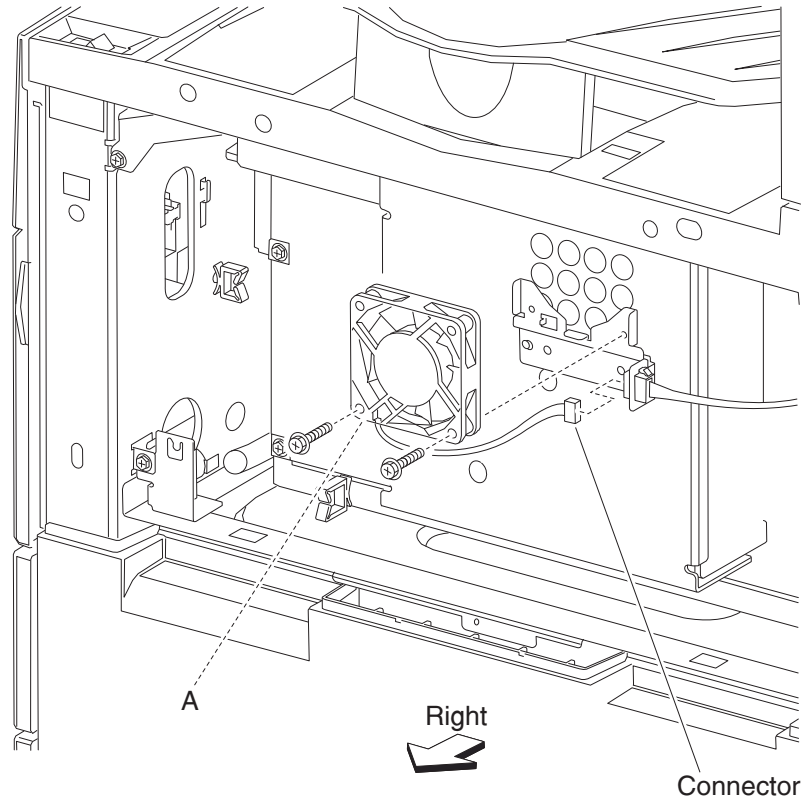
Next



Go Back

LVPS cooling fan removal

1. Remove the right upper cover. See **“Right upper cover removal”** on page 4-9.
2. Disconnect the connector from the LVPS cooling fan (A).
3. Remove the two screws securing the LVPS cooling fan to the machine.
4. Remove the LVPS cooling fan (A).



Previous



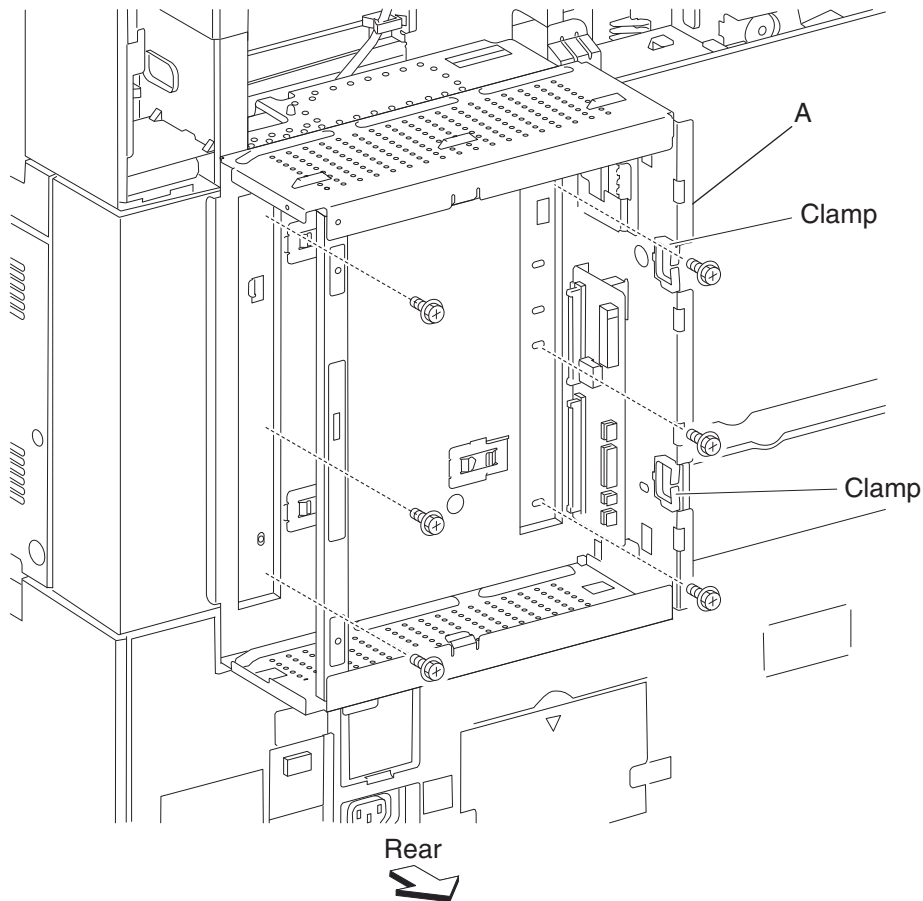
Next



Go Back

AC drive card assembly removal

1. Remove the RIP card chassis bracket. See **“RIP card chassis bracket removal”** on page 4-127.
2. Remove the controller box side cover. See **“Controller box side cover removal”** on page 4-18.
3. Remove all harnesses from the clamps on the controller cage (A).
4. Remove the six screws securing the controller cage (A) to the printer.
5. Move the controller cage (A) leftward and outward.
6. Remove the controller cage (A).



7. Remove the seven connections to the AC drive card assembly (B).
8. Remove the six screws securing the AC drive card assembly (B) to the printer.
Note: Connectors P1, P4, P6, and P7 have a hook that must be released.

Previous

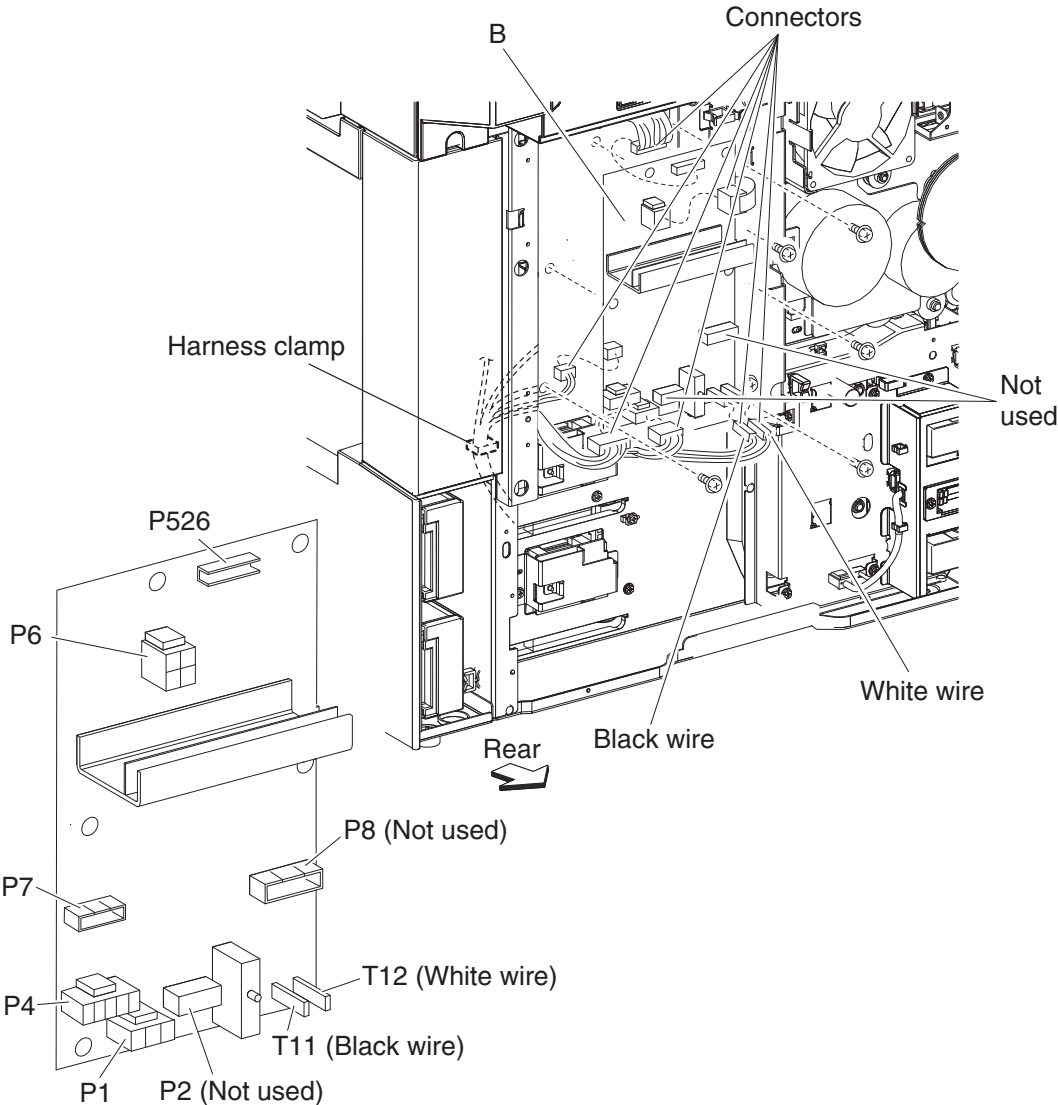


Next



Go Back

- 9. Remove the AC drive card assembly (B).
Note: Before reinstalling, ensure that all electrical connections are properly connected.



Previous



Next

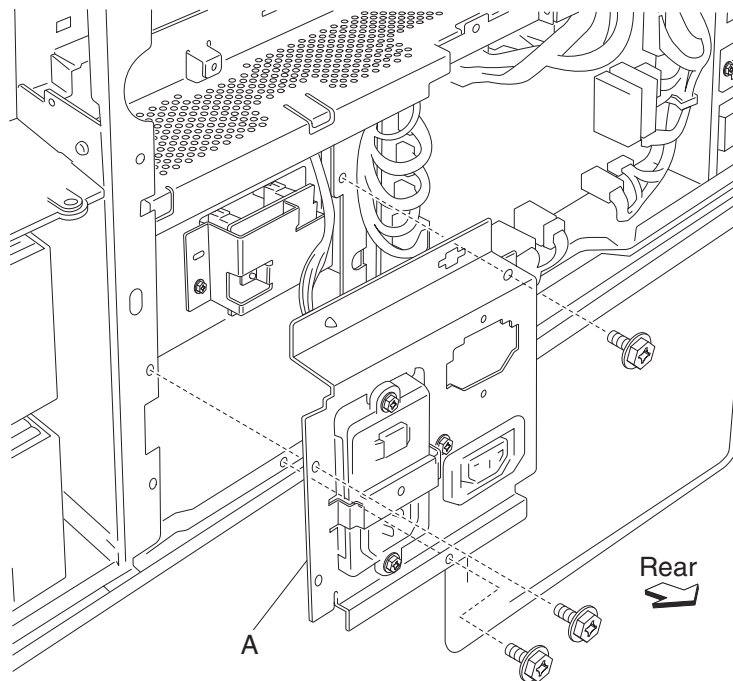


Go Back

AC power input socket assembly removal



1. Remove the rear RIP card cover. See **“Rear RIP card cover removal”** on page 4-13.
2. Remove the rear motor cover. See **“Rear motor cover removal”** on page 4-11.
3. Remove the rear lower cover. See **“Rear lower cover removal”** on page 4-12.
4. Remove the top cover assembly. See **“Top cover assembly removal”** on page 4-5.
5. Remove the right upper cover. See **“Right upper cover removal”** on page 4-9.
6. Remove the three screws securing the AC power input socket assembly (A).
7. Release the harness from the clamp.
8. Remove the AC power bracket assembly (A).



Warning: Before reinstalling, ensure all connectors are plugged into their proper location to prevent damage.

Previous



Next

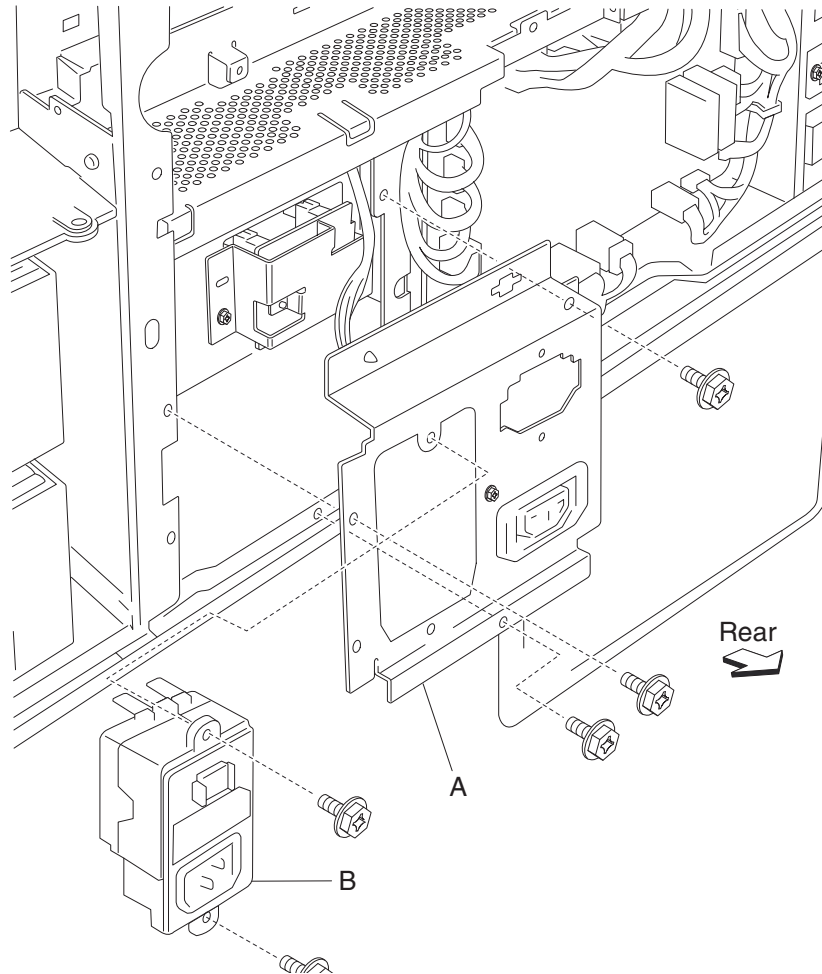


Go Back

AC power input socket removal



1. Remove the rear RIP card cover. See **“Rear RIP card cover removal”** on page 4-13.
2. Remove the rear motor cover. See **“Rear motor cover removal”** on page 4-11.
3. Remove the rear lower cover. See **“Rear lower cover removal”** on page 4-12.
4. Remove the three screws securing the bracket (A).
5. Disconnect the two connectors to the AC power input socket (B).
6. Remove the two screws securing the AC power input socket (B) to the bracket (A).
7. Remove the AC GFI breaker (B).



Warning: Before reinstalling, ensure all connectors are plugged into their proper location to prevent damage.

Previous



Next

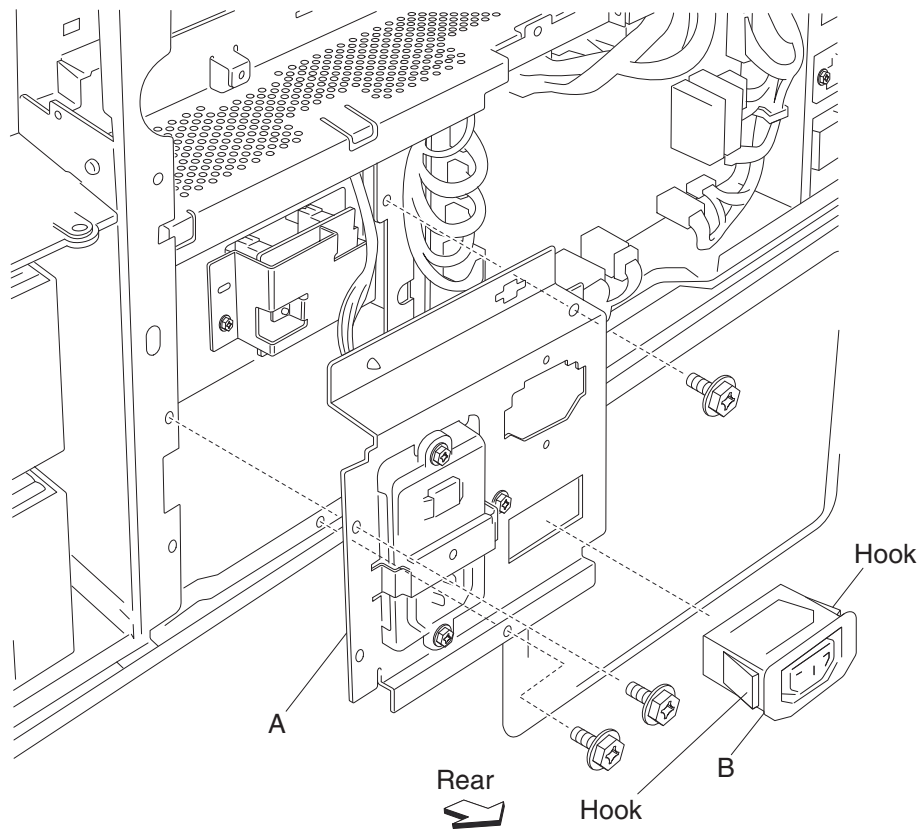


Go Back

Finisher AC output removal



1. Remove the RIP card cover. See **“Rear RIP card cover removal”** on page 4-13.
2. Remove the rear motor cover. See **“Rear motor cover removal”** on page 4-11.
3. Remove the rear lower cover. See **“Rear lower cover removal”** on page 4-12.
4. Remove the printer engine card assembly. See **“Printer engine card assembly removal”** on page 4-119.
5. Remove the three screws securing the bracket (A).
6. Disconnect the three connectors to the finisher AC output (B).
7. Release the two hooks securing the finisher AC output (B) to the bracket (A).
8. Remove the finisher AC output (B).



Warning: Before reinstalling, ensure all connectors are plugged into their proper location to prevent damage.

Previous



Next

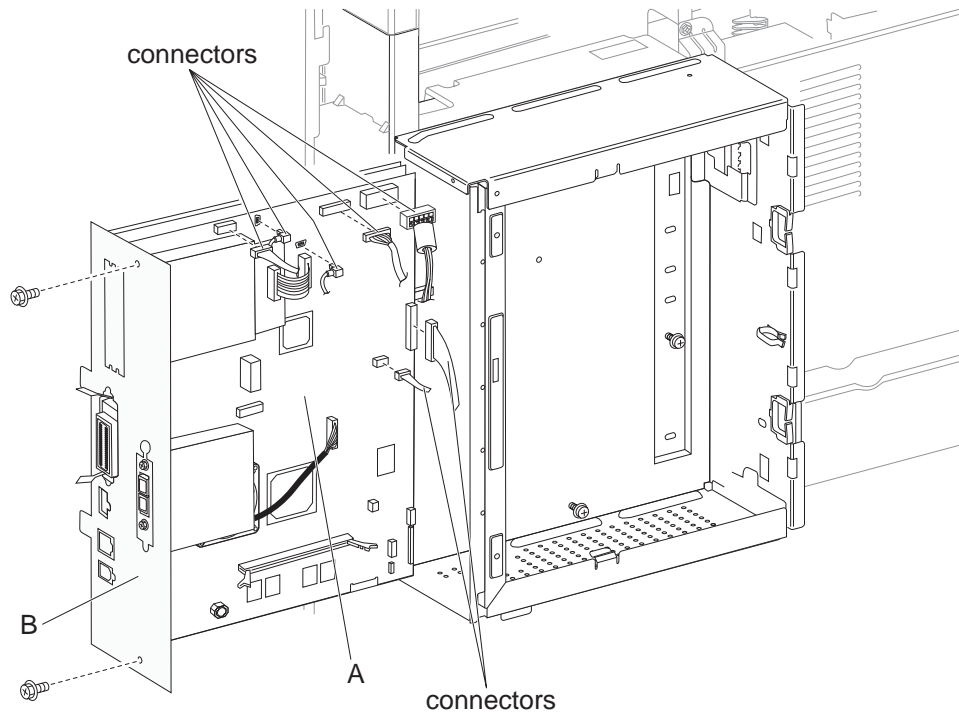


Go Back

RIP card chassis bracket removal

1. Remove the rear RIP card cover. See **“Rear RIP card cover removal”** on page 4-13.
2. Disconnect the seven connections from the RIP card assembly (A).
3. Remove the two screws securing the RIP card chassis bracket (B) to the frame.
4. Slide the RIP card chassis bracket (B) to the left and out of the frame.

Warning: Do not drop the RIP card chassis bracket, or damage will occur.



5. Remove the RIP card chassis bracket assembly.

Previous



Next



Go Back

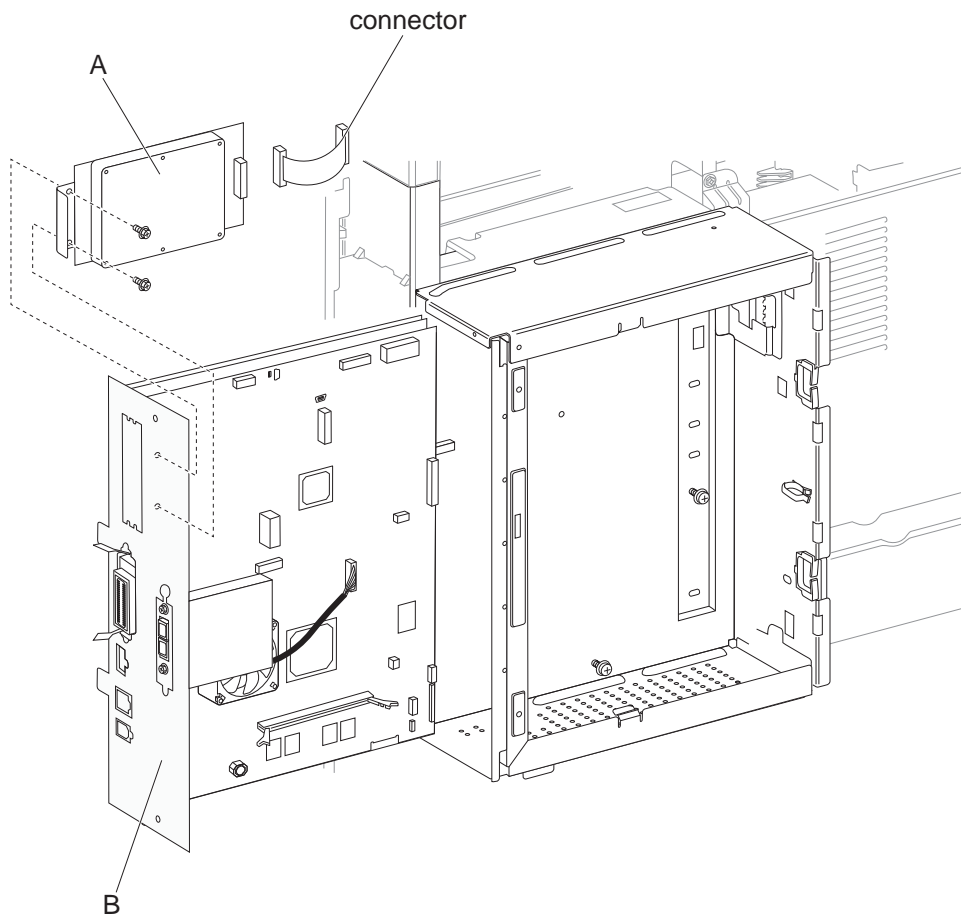
Hard drive removal

1. Remove the rear RIP card cover. See **“Rear RIP card cover removal”** on page 4-13.
2. Remove the RIP card chassis bracket. See **“RIP card chassis bracket removal”** on page 4-127.

Warning: Do not drop the RIP card chassis bracket, or damage will occur.

3. Remove the connector from the hard drive (A).
4. Remove the two screws securing the hard drive (A) to the RIP card chassis bracket (B).
5. Pull the hard drive (A) to release the three locator snaps.
6. Remove the hard drive (A).

Warning: Do not drop the hard drive, or damage will occur.



Previous



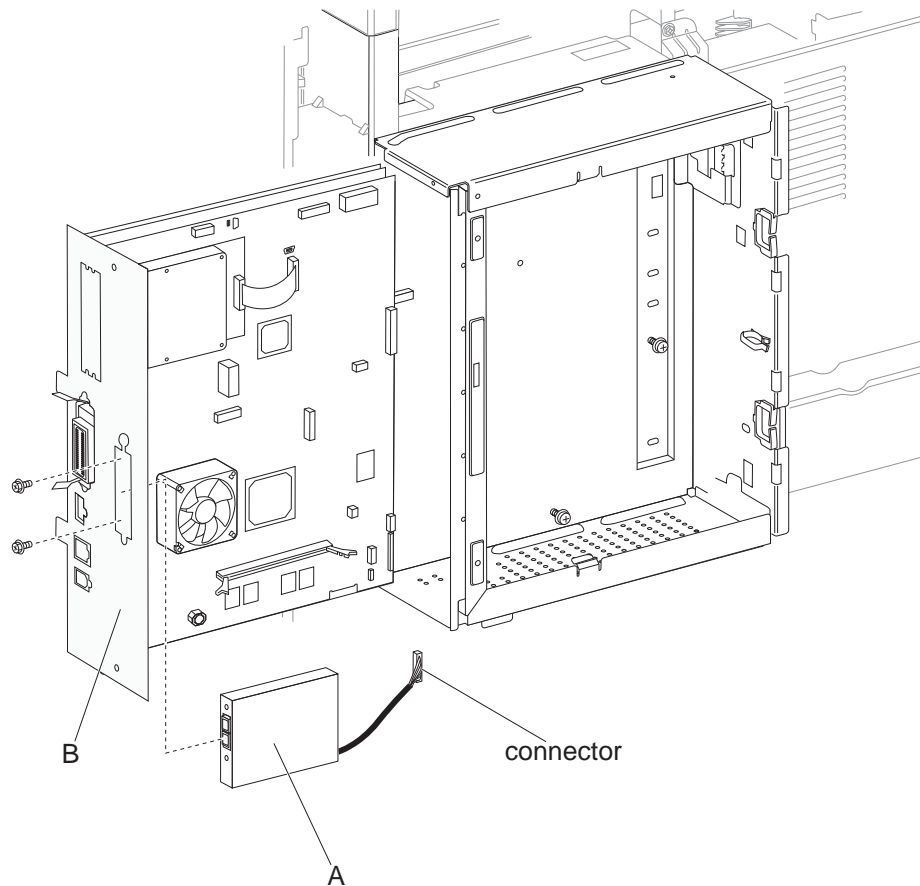
Next



Go Back

Fax interface card assembly removal

1. Remove the rear RIP card cover. See **“Rear RIP card cover removal”** on page 4-13.
2. Disconnect the connection from the fax interface assembly (A).
3. Remove the two screws securing the fax interface card (A) to the side of the RIP card chassis bracket (B).
4. Remove the fax interface card assembly (A).



Previous



Next



Go Back

RIP card assembly removal

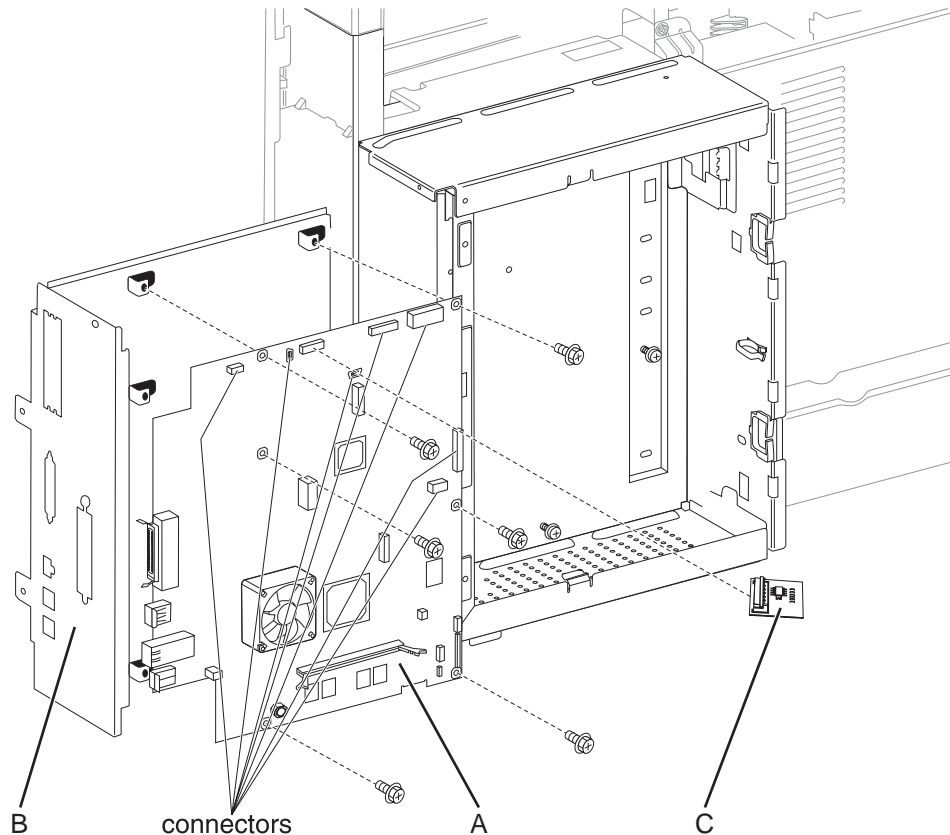


CAUTION—POTENTIAL INJURY:

There is a danger of explosion if a lithium battery is incorrectly replaced. Replace it only with the same or an equivalent type of lithium battery. Do not recharge, disassemble, or incinerate a lithium battery. Discard used batteries according to the manufacturer's instructions and local regulations.

1. Remove the rear RIP card cover. See **“Rear RIP card cover removal”** on page 4-13.
2. Remove the RIP card chassis bracket. See **“RIP card chassis bracket removal”** on page 4-127.
3. Remove the hard drive. See **“Hard drive removal”** on page 4-128.
4. Remove the fax interface card assembly. See **“Fax interface card assembly removal”** on page 4-129.
5. Disconnect the seven connections from the RIP card assembly (A).
6. Loosen the two thumbscrews from the side of the RIP card chassis bracket (B).
7. Remove the six screws securing the RIP card assembly (A) to the face of the RIP card chassis bracket (B).
8. Remove the NVRAM card (C).
9. Remove the RIP card assembly (A).

Important: The replacement RIP card assembly does not contain a NVRAM card. Remove the NVRAM card from the old RIP card and install on the replacement RIP card to restore the NVRAM settings..



Previous

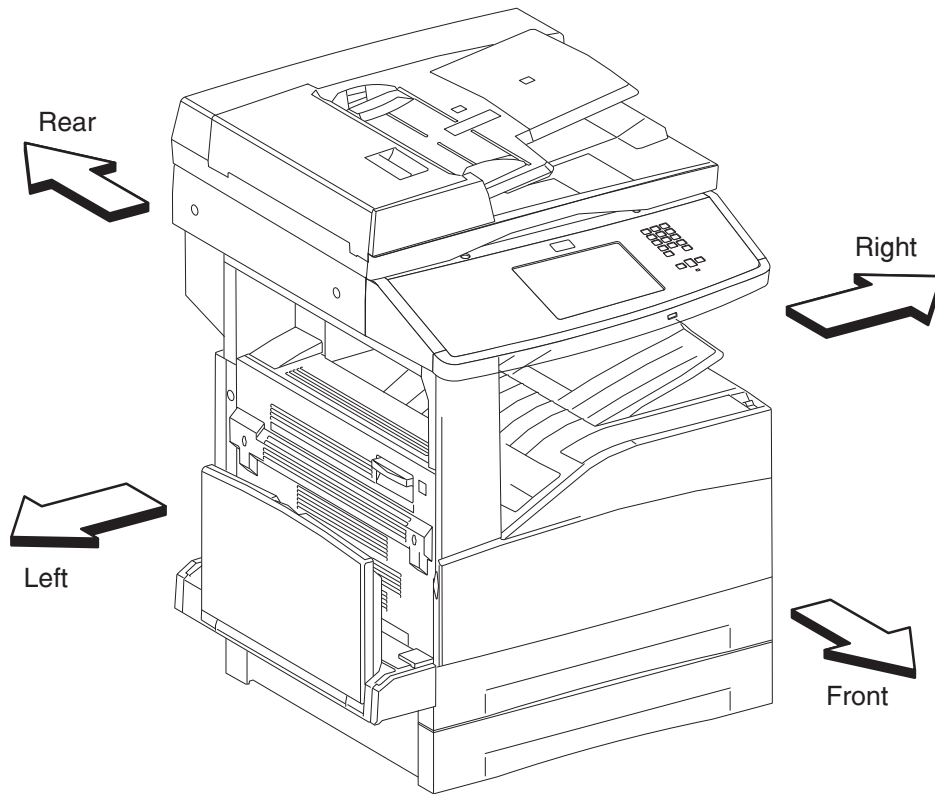


Next



Go Back

Scanner removals



Previous



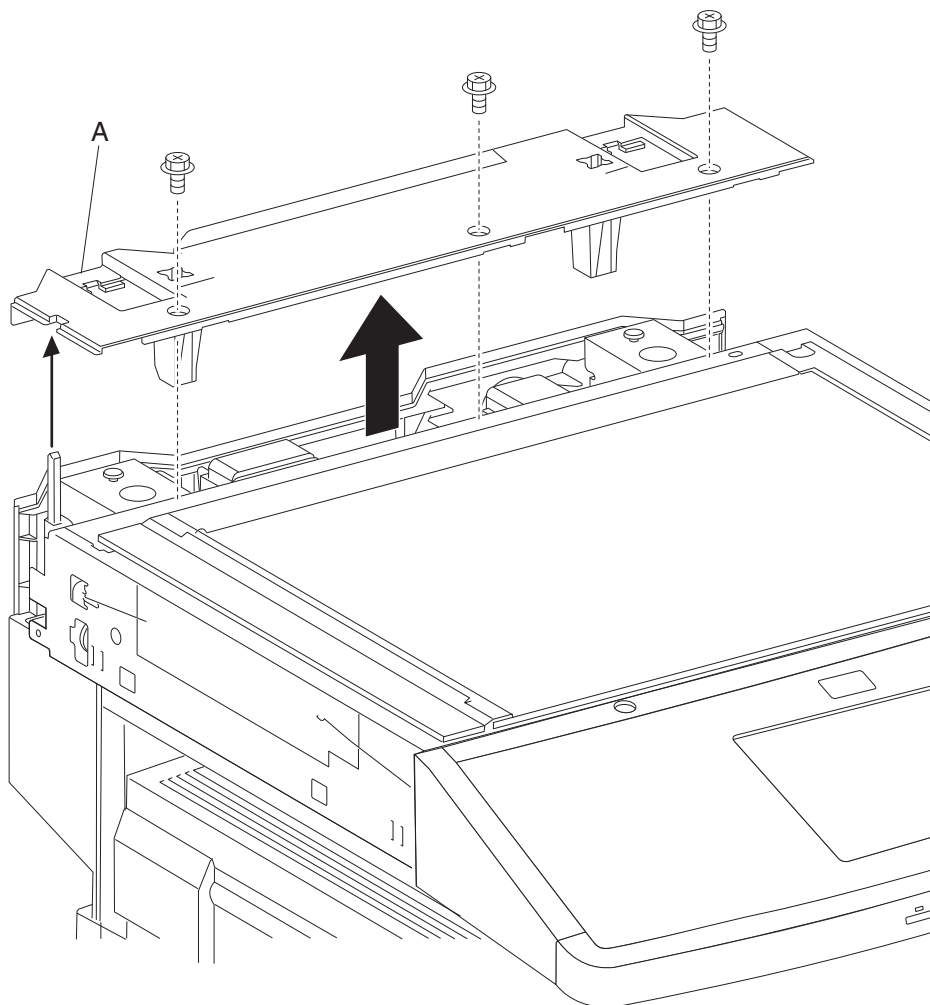
Next



Go Back

Scanner top rear cover removal

1. Remove the ADF unit assembly. See **“ADF unit assembly removal”** on page 4-167.
2. Remove the rear upper cover. See **“Rear upper cover removal”** on page 4-15.
3. Remove the scanner left cover. See **“Scanner left cover removal”** on page 4-133.
4. Remove the scanner right cover. See **“Scanner right cover removal”** on page 4-134.
5. Remove the three screws securing the scanner top rear cover (A) to the scanner unit assembly.
6. Lift the scanner top rear cover (A) upward.
7. Remove the scanner top rear cover (A).



Previous



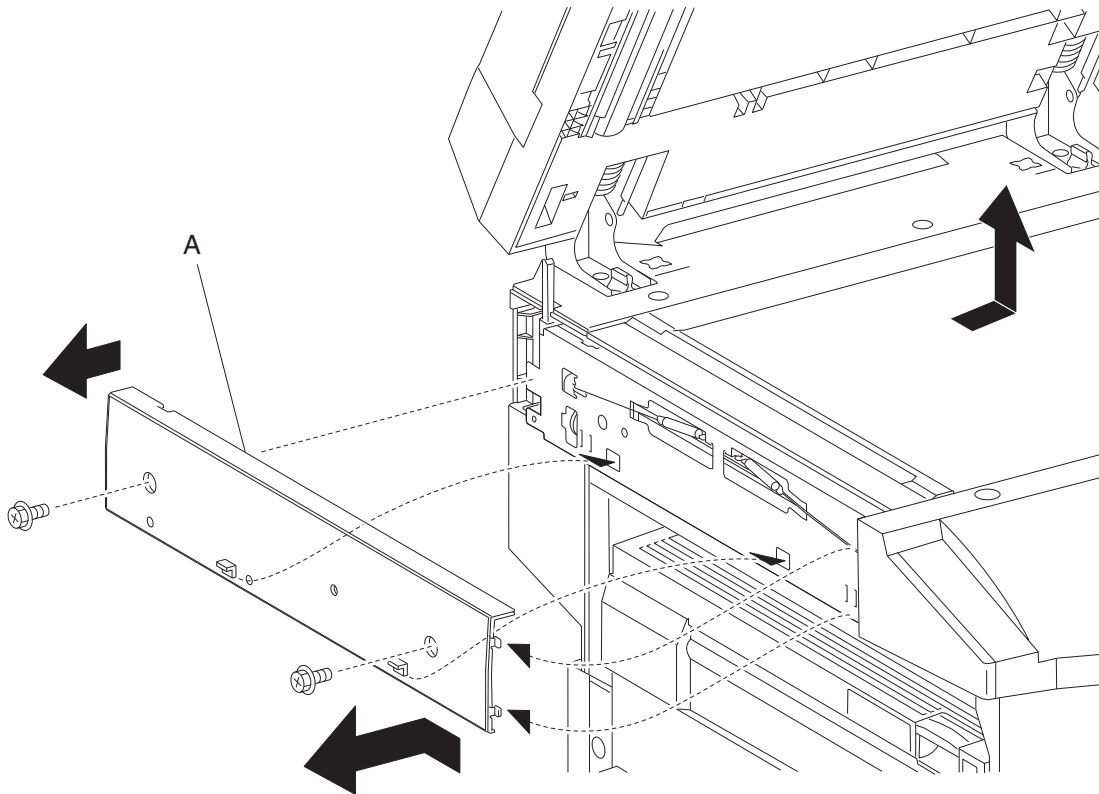
Next



Go Back

Scanner left cover removal

1. Remove the two screws securing the scanner left cover (A) to the scanner unit assembly.
2. Disengage the rear side of scanner left cover (A) from the scanner unit assembly, and shift the scanner left cover (A) rearward.
3. Release the two hooks securing the front side of scanner left cover (A), and remove the scanner left cover (A).



Previous



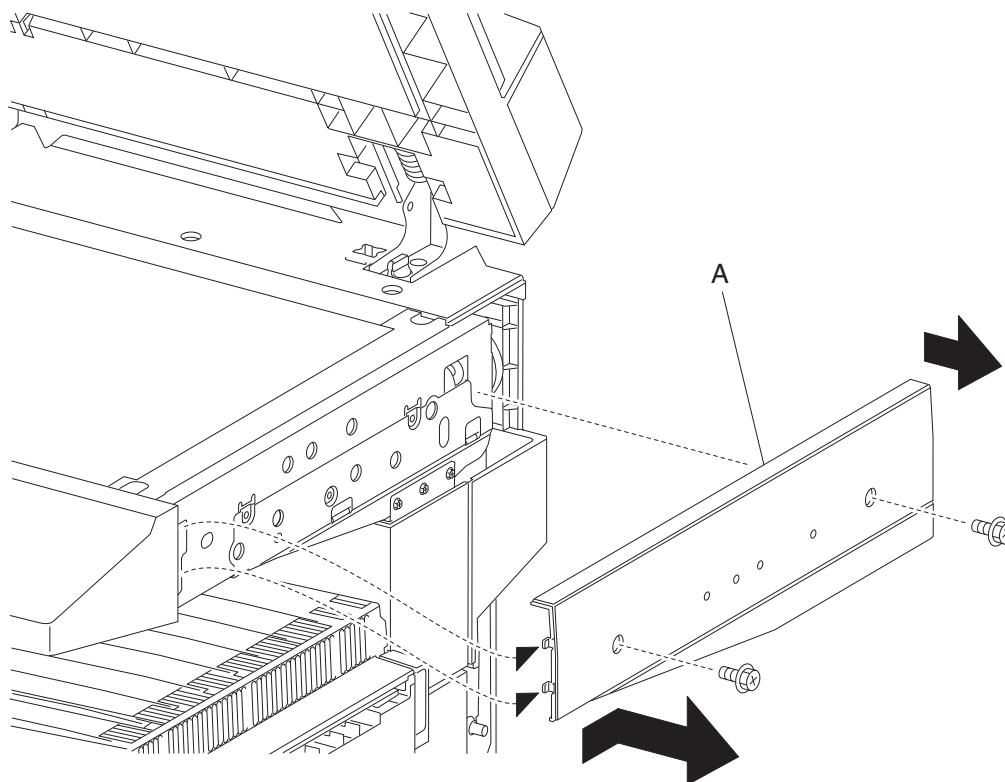
Next



Go Back

Scanner right cover removal

1. Remove the two screws securing the scanner right cover (A) to the scanner unit assembly.
2. Disengage the rear side of scanner right cover (A) from the scanner unit assembly, and shift the scanner right cover (A) rearward.
3. Release the two hooks securing the front side of the scanner right cover (A), and remove the scanner right cover (A).



Previous



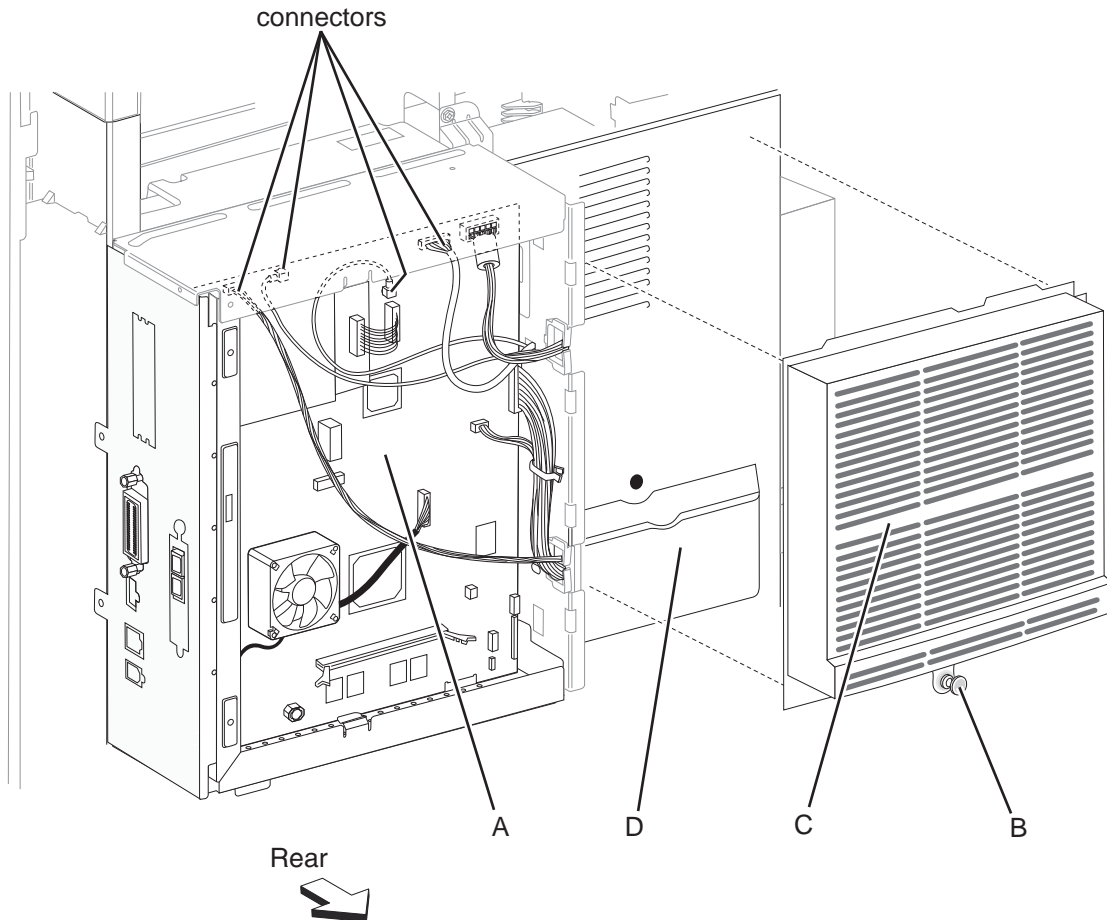
Next



Go Back

Operator panel assembly removal

1. Remove the rear RIP card cover. See **“Rear RIP card cover removal”** on page 4-13.
2. Disconnect the four connectors from the RIP card assembly (A).
3. Pull the stud (B) securing the filter (C) away from the rear motor cover (D).
4. Remove the filter (C).



5. Remove the rear motor cover. See **“Rear motor cover removal”** on page 4-11.
6. Remove the controller box side cover. See **“Controller box side cover removal”** on page 4-18.
7. Remove the rear upper cover. See **“Rear upper cover removal”** on page 4-15.

Previous

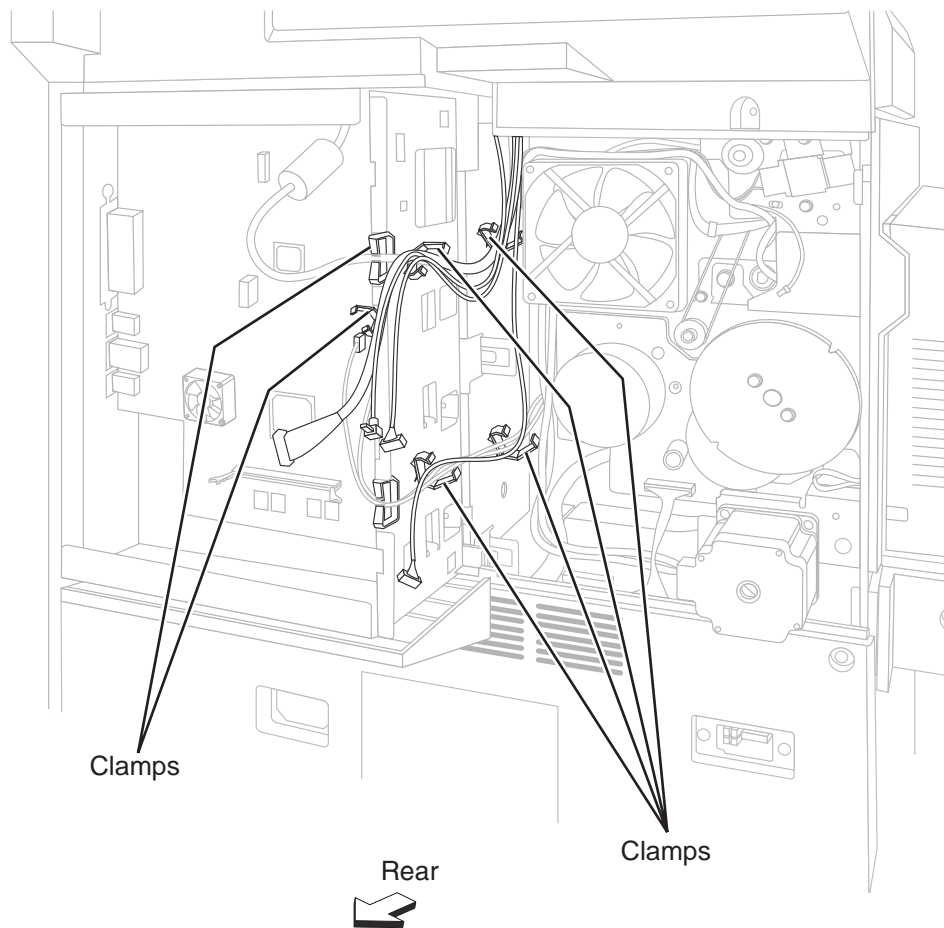


Next



Go Back

8. Release the operator panel cable and the USB-Smart card-LED cable assembly from the clamps.



Previous



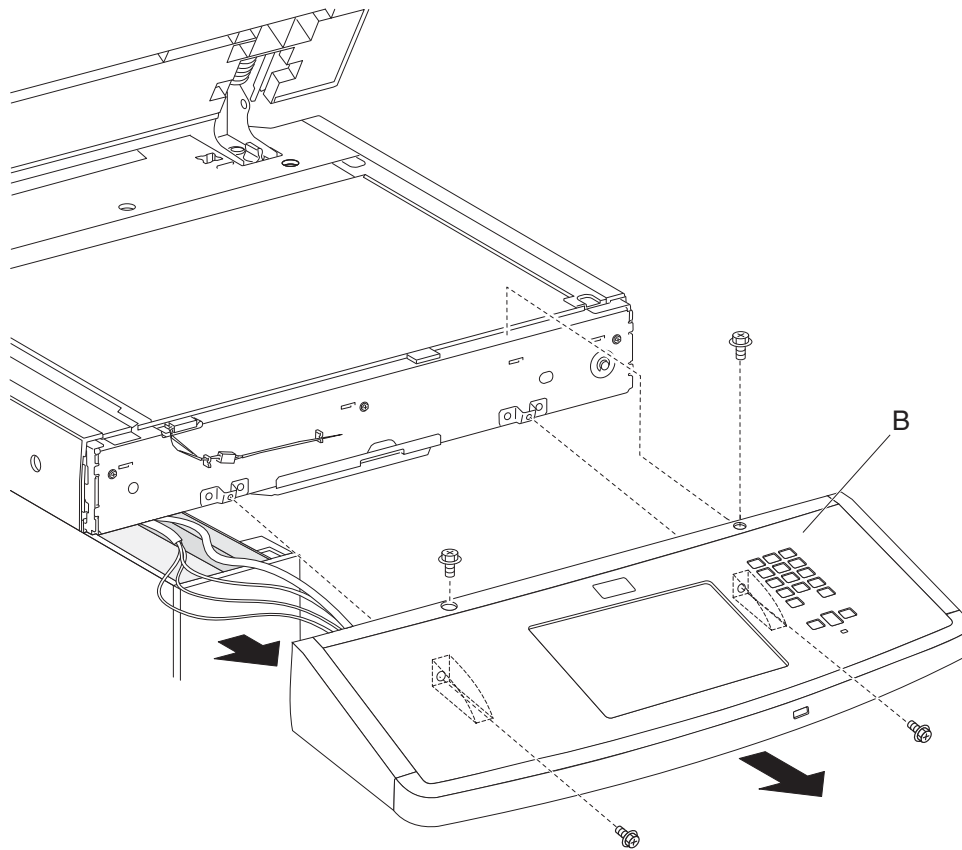
Next



Go Back

9. Remove the four screws securing the operator panel assembly (B) to the scanner unit assembly.

Warning: Do not drop the operator panel assembly (B), or damage will occur.



Previous



Next



Go Back

10. Guide the operator panel cable and the USB-Smart card-LED cable assembly through the rear of the printer so that they can be pulled through from the front.

Note: First pull the operator panel cable out from the harness guide (C), and then remove the remaining three cables.

11. Remove the operator panel assembly (B).

Reinstallation procedure for the operator panel assembly (B):

- 1.** Guide the operator panel cable through the harness guide (C) so that it can be pulled through the rear of the printer, and then guide the three remaining cables.
- 2.** Reroute the cables, and ensure that they are reinserted into their appropriate clamps.
- 3.** Ensure that all connections are properly reconnected.

Warning: Be careful not to damage the cables by pulling too hard, or cutting the cable insulation.

Previous



Next



Go Back

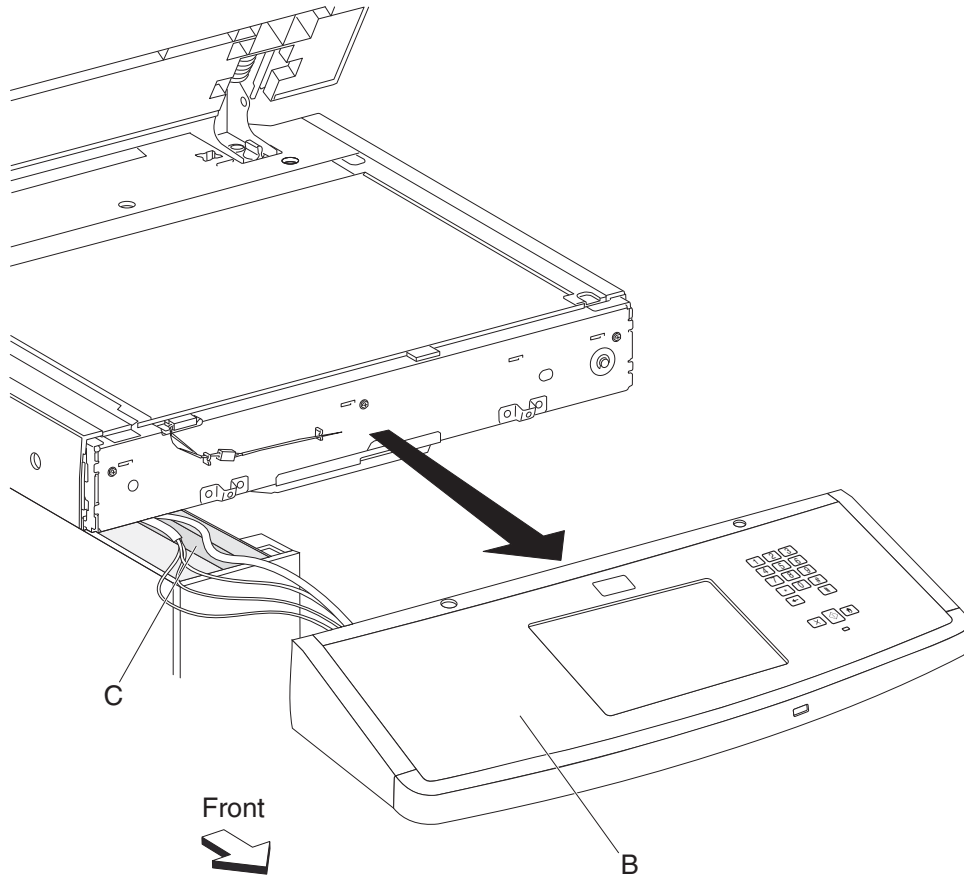
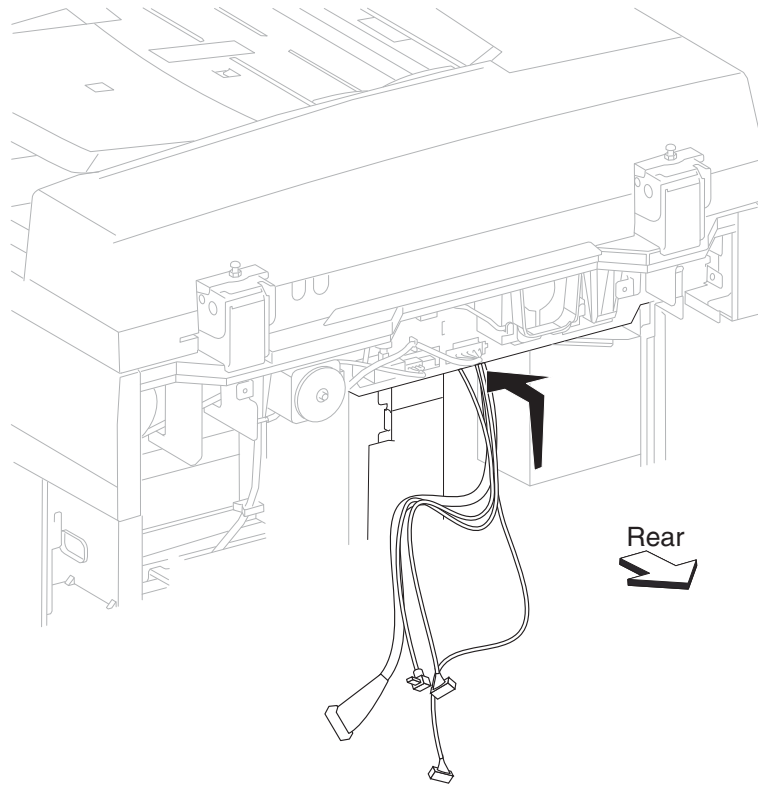
Previous



Next

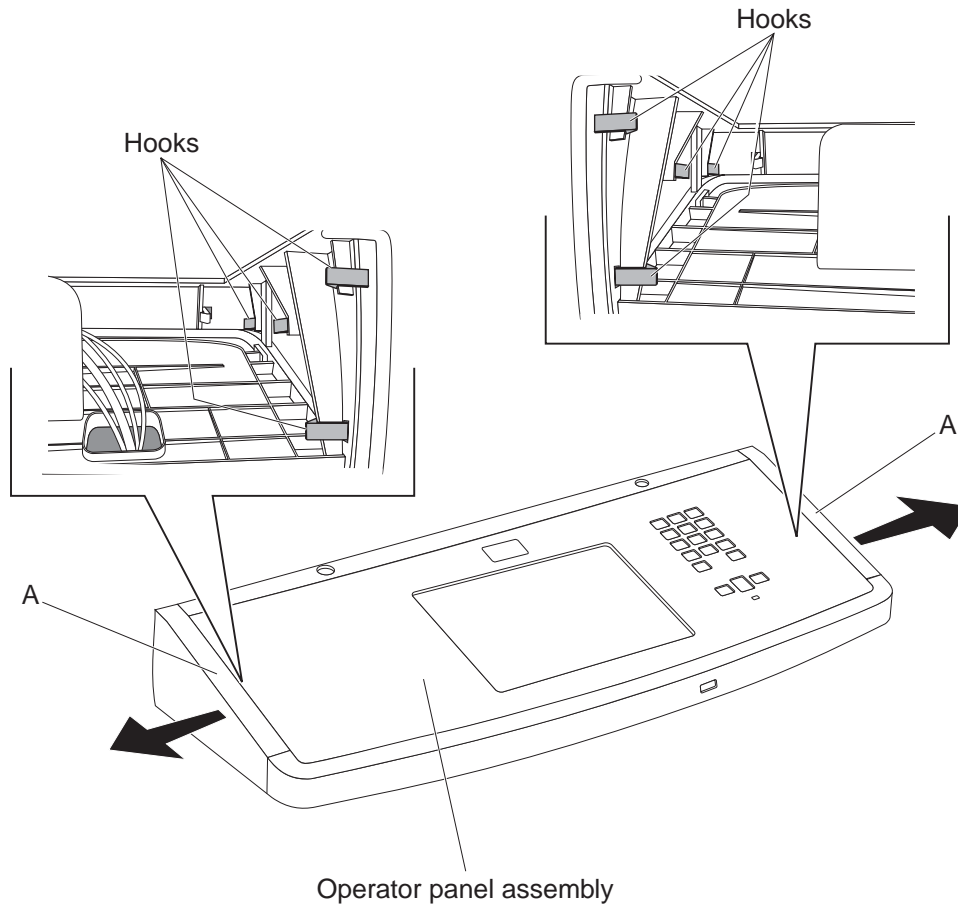


Go Back



Operator panel cover assembly removal

1. Remove the operator panel assembly. See **“Operator panel assembly removal” on page 4-135.**
2. Release the hooks accessible on the rear end to dislodge the operator panel side covers (A).
Note: Use a prying tool to release the hooks that are difficult to access. The hooks are easier to release if done in sequence starting from the least accessible hook and ending on the nearest hook.
3. Remove the operator panel side covers (A).



Previous

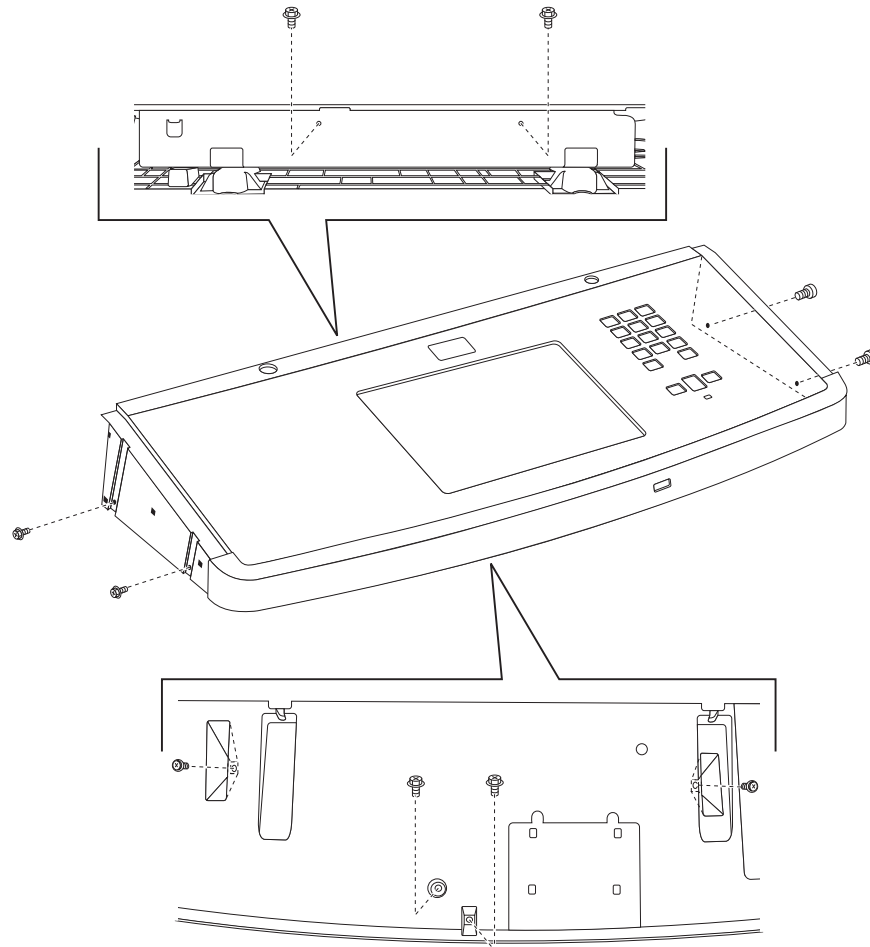


Next



Go Back

4. Remove the four screws from the left and right sides of the operator panel assembly.
5. Remove the two screws from the rear side of the operator panel assembly.
6. Remove the four screws from the bottom side of the operator panel assembly.



Previous

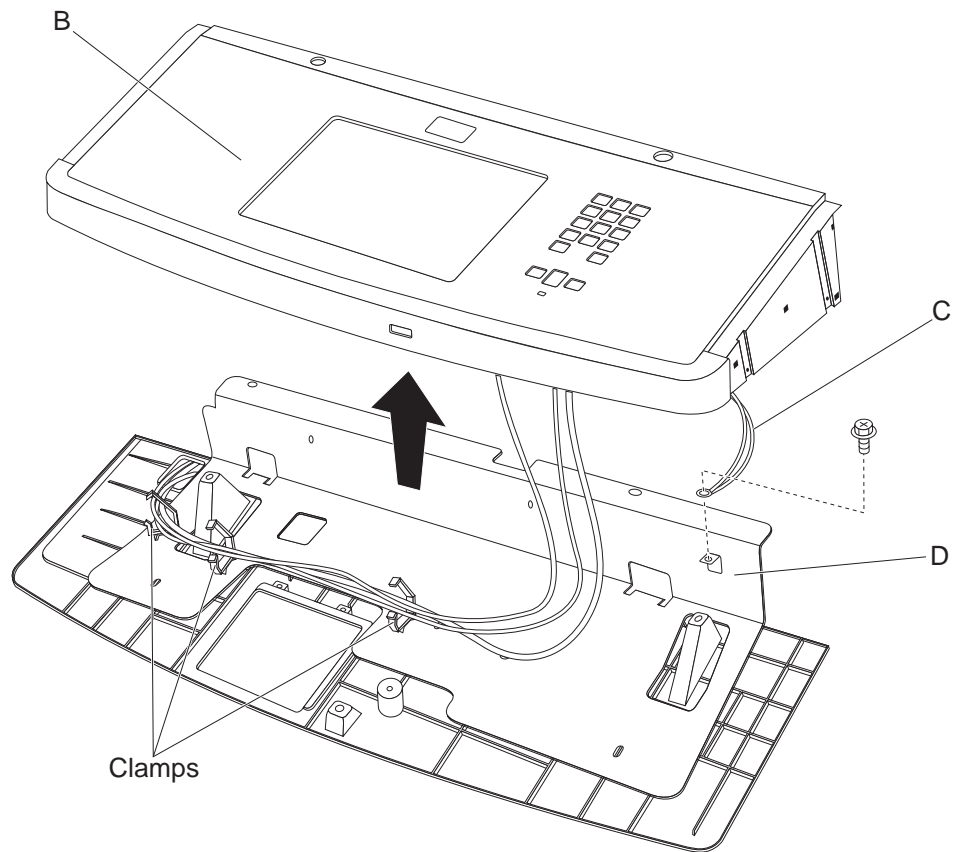


Next



Go Back

7. Lift the operator panel top cover assembly (B), and remove the screw securing the green ground wire (C) to the rear frame (D).
8. Release the clamps holding the cables.



Previous

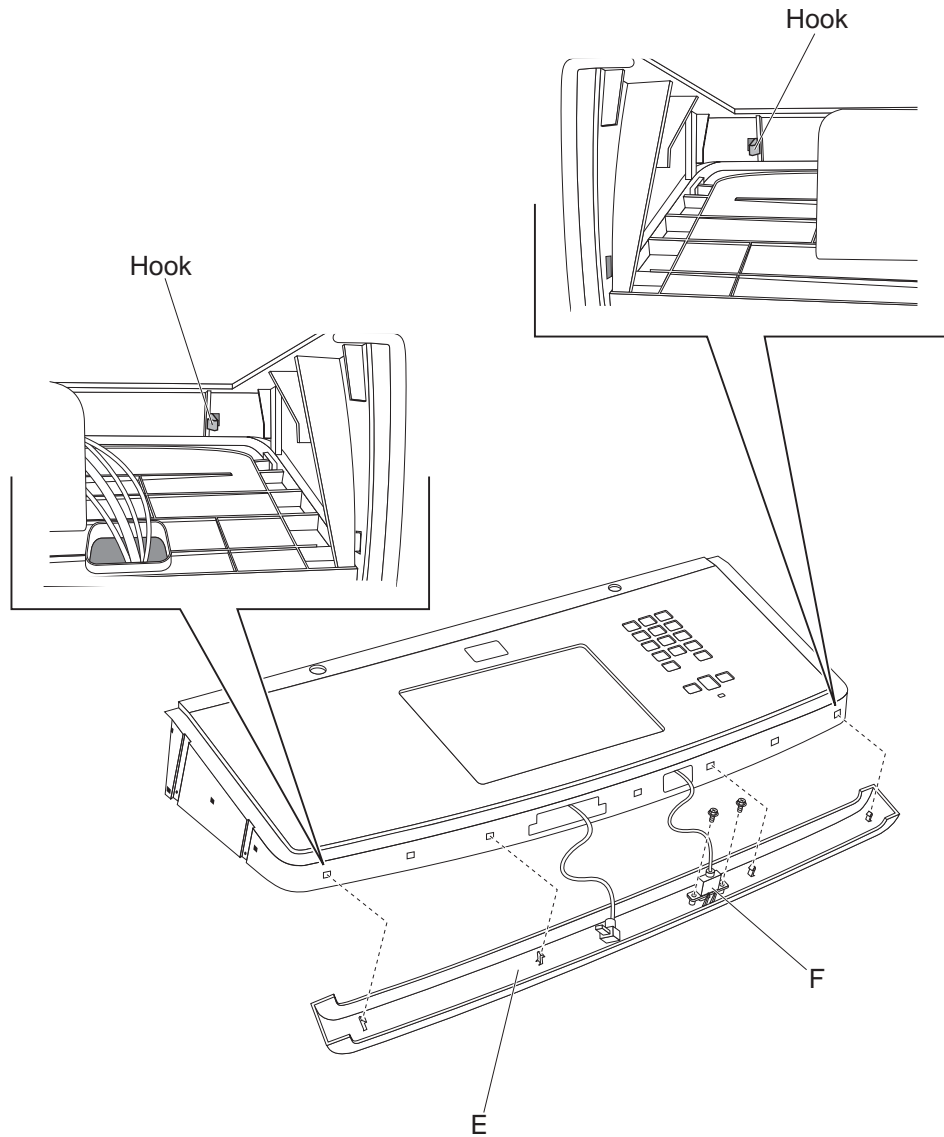


Next



Go Back

9. Push the hooks accessible on the rear end to dislodge the operator panel front cover (E).
- Note:** Use a prying tool to release hooks that are difficult to access.
10. Remove the two screws securing the USB cable (F) to the operator panel front cover (E).
 11. Remove the operator panel front cover (E).



Previous



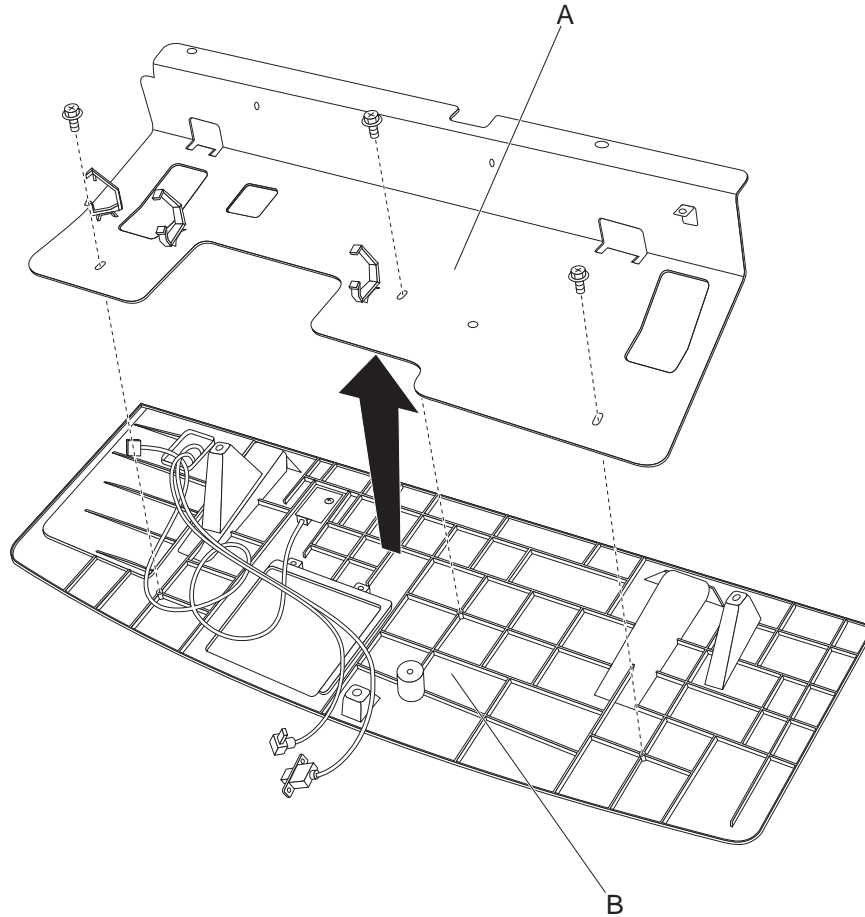
Next



Go Back

USB-Smart card-LED cable assembly removal

1. Remove the operator panel assembly. See **“Operator panel assembly removal” on page 4-135.**
2. Remove the operator cover assembly. See **“Operator panel cover assembly removal” on page 4-140.**
3. Release the Smart card cable and the USB cable from the operator panel top cover.
4. Remove the three screws securing the rear frame (A) to the operator panel bottom cover (B).
5. Lift the rear frame (A), and remove.



Previous

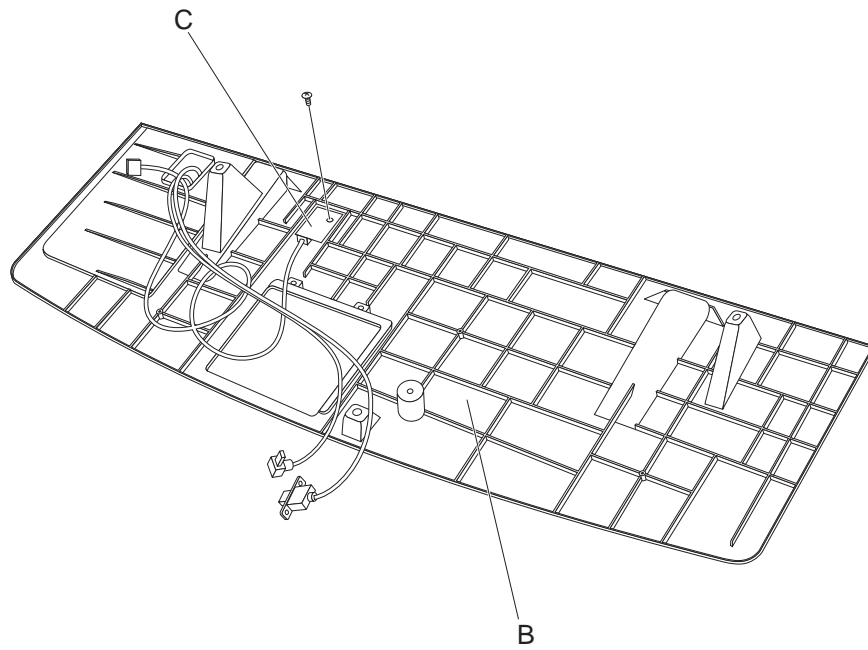


Next



Go Back

6. Remove the screw securing the LED card (C).
7. Remove the USB-Smart card-LED cable assembly from the operator panel bottom cover (B).



Previous



Next



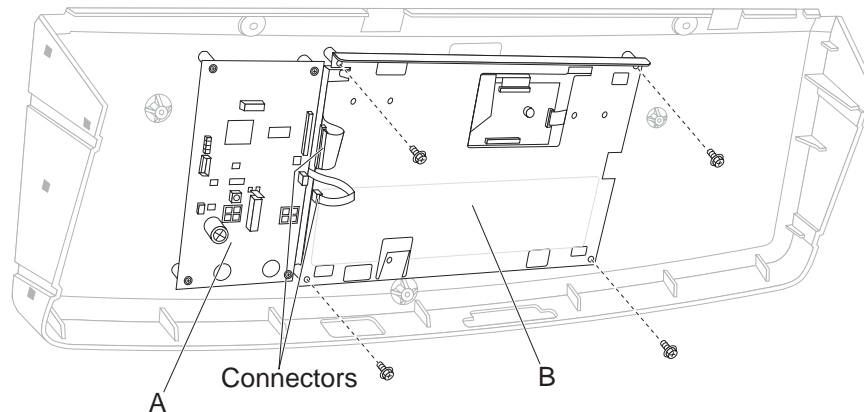
Go Back

Operator panel user touch screen removal

1. Remove the operator panel assembly. See **“Operator panel assembly removal” on page 4-135.**
2. Remove the operator panel cover assembly. See **“Operator panel cover assembly removal” on page 4-140.**
3. Disconnect the two connectors from the operator panel controller card (A).
4. Remove the four screws securing the operator panel user touch screen (B) to the top cover.
5. Remove the operator panel user touch screen (B).

Note: Before reinstalling the operator panel user touch screen (B), ensure that all connections are properly replaced.

Note: Before reinstalling the operator panel assembly, ensure that all ground wires are properly replaced.



Previous



Next



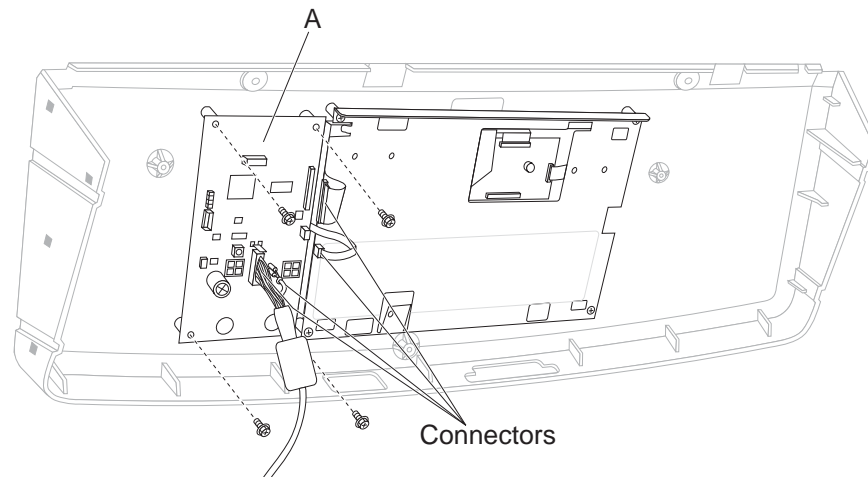
Go Back

Operator panel controller card removal

1. Remove the operator panel assembly. See **“Operator panel assembly removal” on page 4-135.**
2. Remove the operator panel cover assembly. See **“Operator panel cover assembly removal” on page 4-140.**
3. Disconnect all the connectors from the operator panel controller card (A).
4. Remove the four screws securing the operator panel controller card (A) to the top cover.
5. Remove the operator panel controller card (A).

Note: Before reinstalling the operator panel controller card (A), ensure that all connections are properly replaced.

Note: Before reinstalling the operator panel assembly, ensure that all ground wires are properly replaced.



Previous



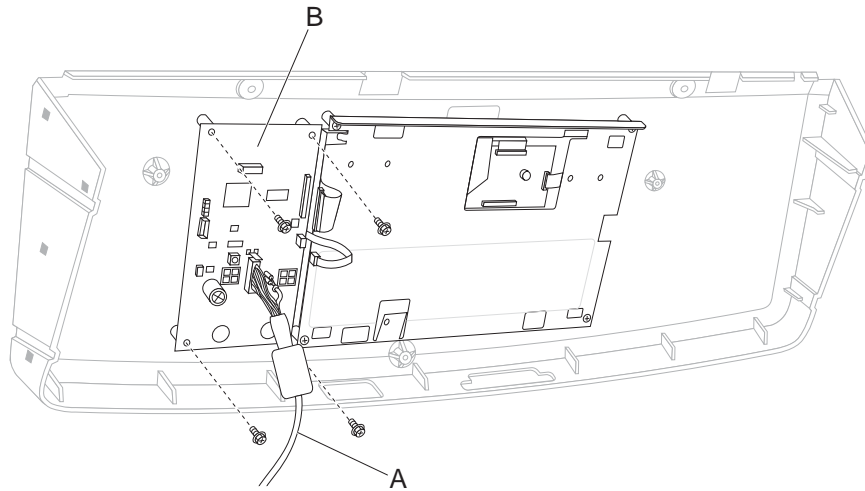
Next



Go Back

Operator panel cable removal

1. Remove the operator panel assembly. See **“Operator panel assembly removal”** on page 4-135.
2. Remove the operator panel cover assembly. See **“Operator panel cover assembly removal”** on page 4-140.
3. Disconnect the operator panel cable (A) from the operator panel controller card (B).



Previous



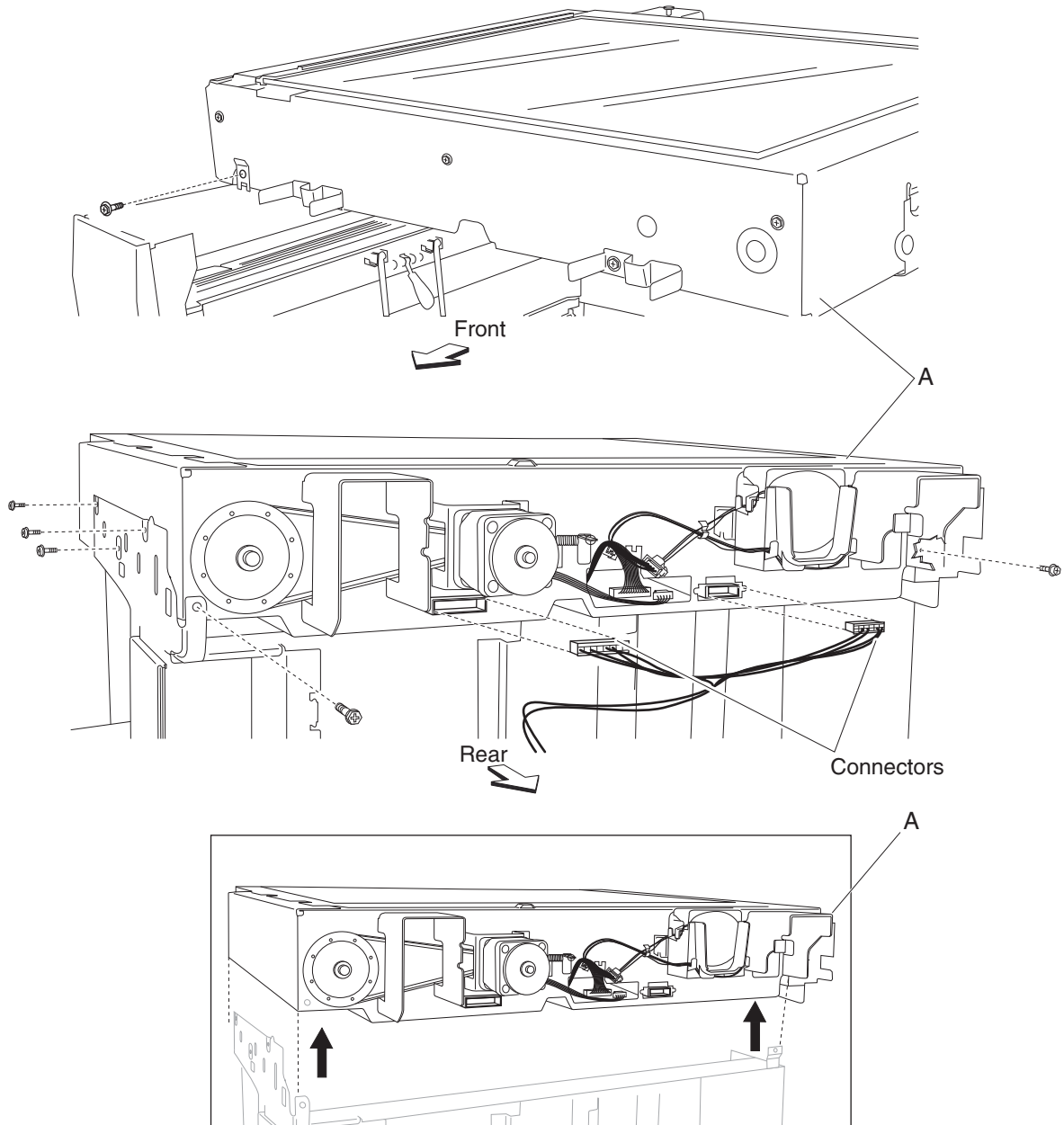
Next



Go Back

Scanner unit assembly removal

1. Remove the ADF unit assembly. See **“ADF unit assembly removal” on page 4-167.**
2. Remove the operator panel assembly. See **“Operator panel assembly removal” on page 4-135.**
3. Remove the scanner left cover. See **“Scanner left cover removal” on page 4-133.**
4. Remove the scanner right cover. See **“Scanner right cover removal” on page 4-134.**
5. Remove the rear upper cover. See **“Rear upper cover removal” on page 4-15.**
6. Remove the scanner top rear cover. See **“Scanner top rear cover removal” on page 4-132.**
7. Remove the two power connections from the rear of the scanner unit assembly (A).
8. Remove the six screws securing the scanner unit assembly (A) to the machine.
9. Remove the scanner unit assembly (A).



Previous



Next



Go Back

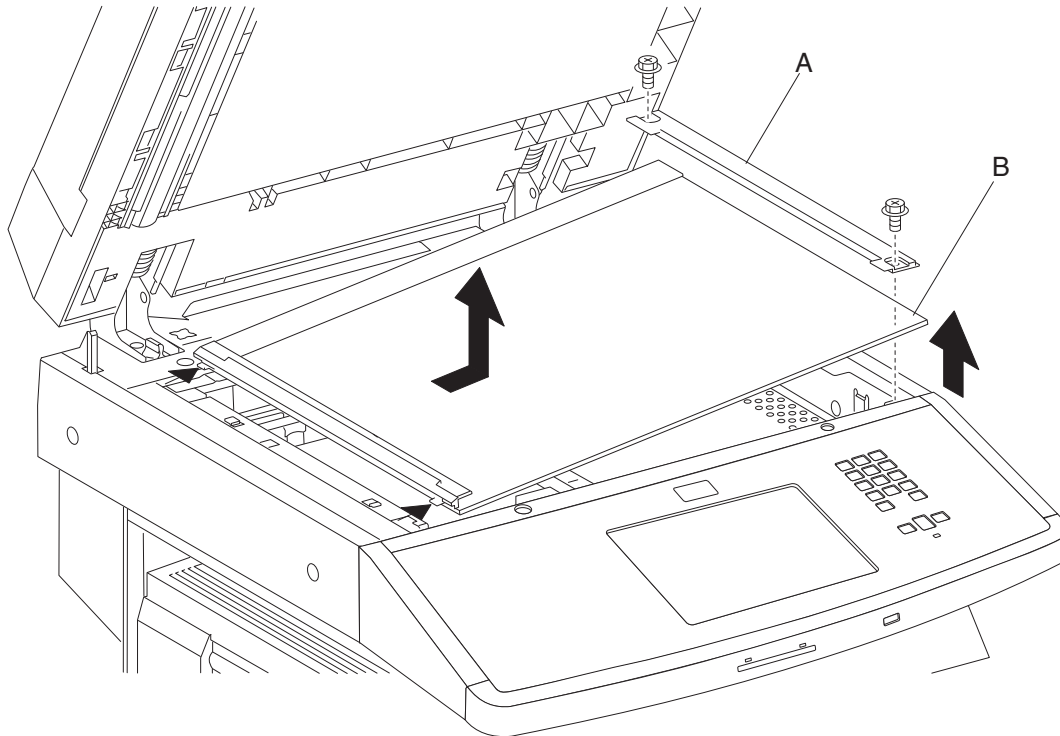
Large platen glass removal

1. Remove the two screws securing the large platen glass retainer (A) to the scanner unit assembly.
2. Remove the large platen glass retainer (A).
3. Gently lift the large platen glass (B) upward, and move it rightward in the direction of the arrow.
4. Remove the large platen glass (B).

Warning: Do not drop the large platen glass (B), or damage will occur.

CAUTION: Avoid touching the underside of the large platen glass (B).

Note: Before reinstalling the large platen glass (B), clean the underside with glass cleaner, and then install the large platen glass assembly (B). After installation, clean the top of the large platen glass (B) with glass cleaner.



Previous



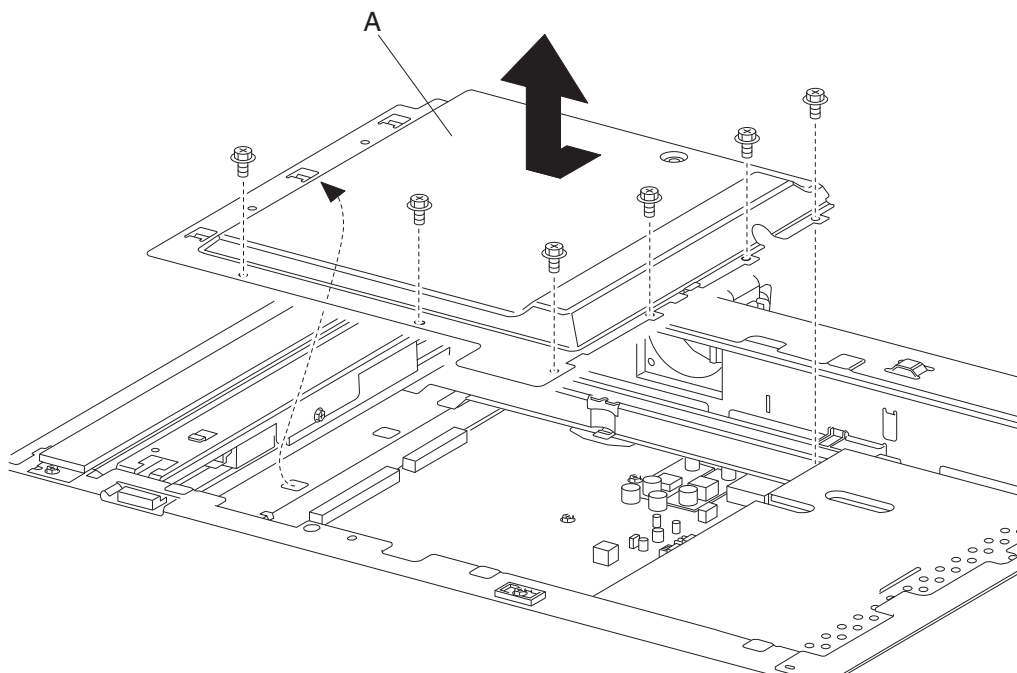
Next



Go Back

Scanner controller card assembly removal

1. Remove the rear upper cover. See **“Rear upper cover removal”** on page 4-15.
2. Remove the scanner top rear cover. See **“Scanner top rear cover removal”** on page 4-132.
3. Remove the large platen glass. See **“Large platen glass removal”** on page 4-150.
4. Gently move the scanner carriage assembly completely to the left to provide access to the screws.
5. Remove the six screws securing the cover (A) to the scanner unit assembly.
6. Move the cover (A) forward then upward in the direction of the arrow.
7. Remove the cover (A).
8. Remove the four card mounting screws (B) securing the scanner controller card assembly (C) from the rear of the scanner unit assembly.
9. Disconnect all connections from the scanner controller card assembly (C).
10. Remove the eleven screws securing the scanner controller card assembly (C) to the scanner unit assembly.
11. Remove the scanner controller card assembly (C).



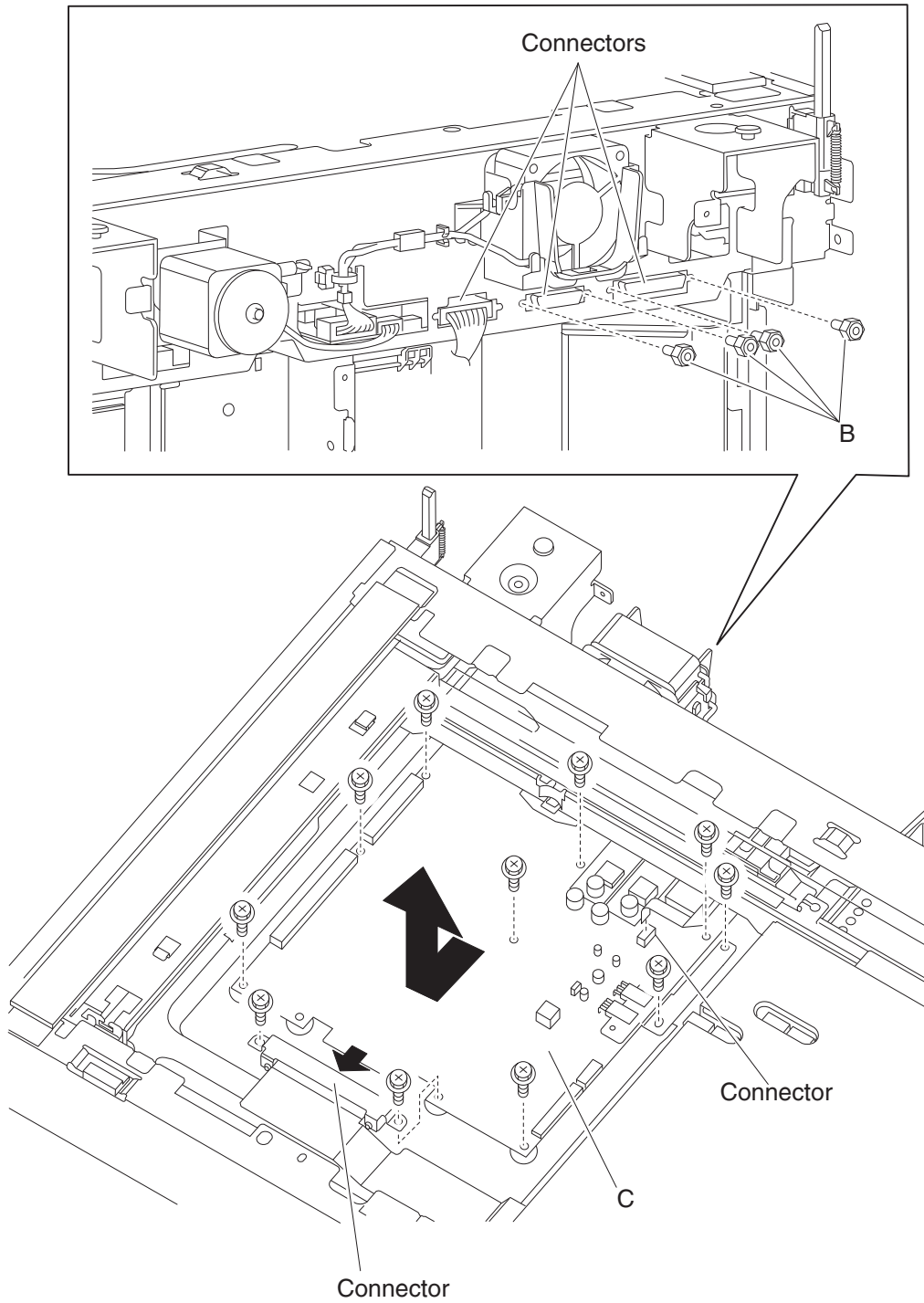
Previous



Next



Go Back



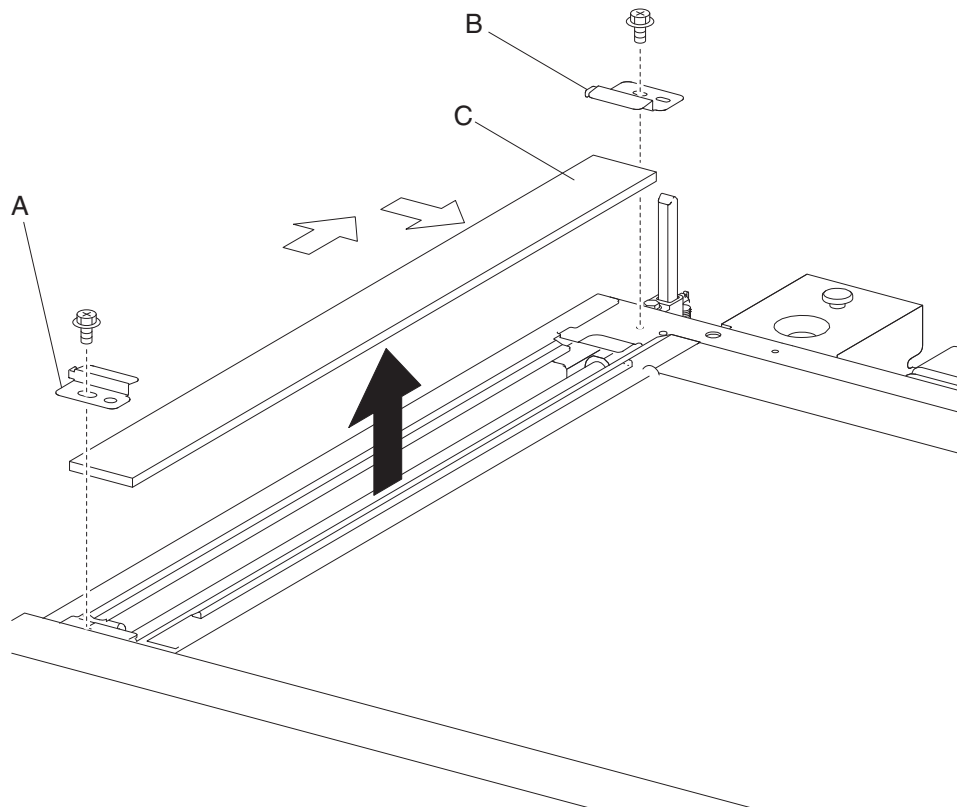
Small platen glass removal

1. Remove the ADF unit assembly. See **“ADF unit assembly removal” on page 4-167.**
2. Remove the operator panel assembly. See **“Operator panel assembly removal” on page 4-135.**
3. Remove the scanner left cover. See **“Scanner left cover removal” on page 4-133.**
4. Remove the scanner right cover. See **“Scanner right cover removal” on page 4-134.**
5. Remove the scanner top rear cover. See **“Scanner top rear cover removal” on page 4-132.**
6. Remove the screw securing the small platen glass front retainer (A) to the scanner unit assembly.
7. Remove the small platen glass front retainer (A).
8. Remove the screw securing the small platen glass rear retainer (B) to the scanner unit assembly.
9. Remove the small platen glass rear retainer (B).
10. Remove the small platen glass (C).

Warning: Do not drop the small platen glass (C), or damage will occur.

CAUTION: Avoid touching the underside of the small platen glass (C).

Note: Before reinstalling the small platen glass (C), clean the underside of the small platen glass (C) with glass cleaner, then install the small platen glass assembly (C). After installation, clean the top of the small platen glass (C) with glass cleaner.



Previous



Next



Go Back

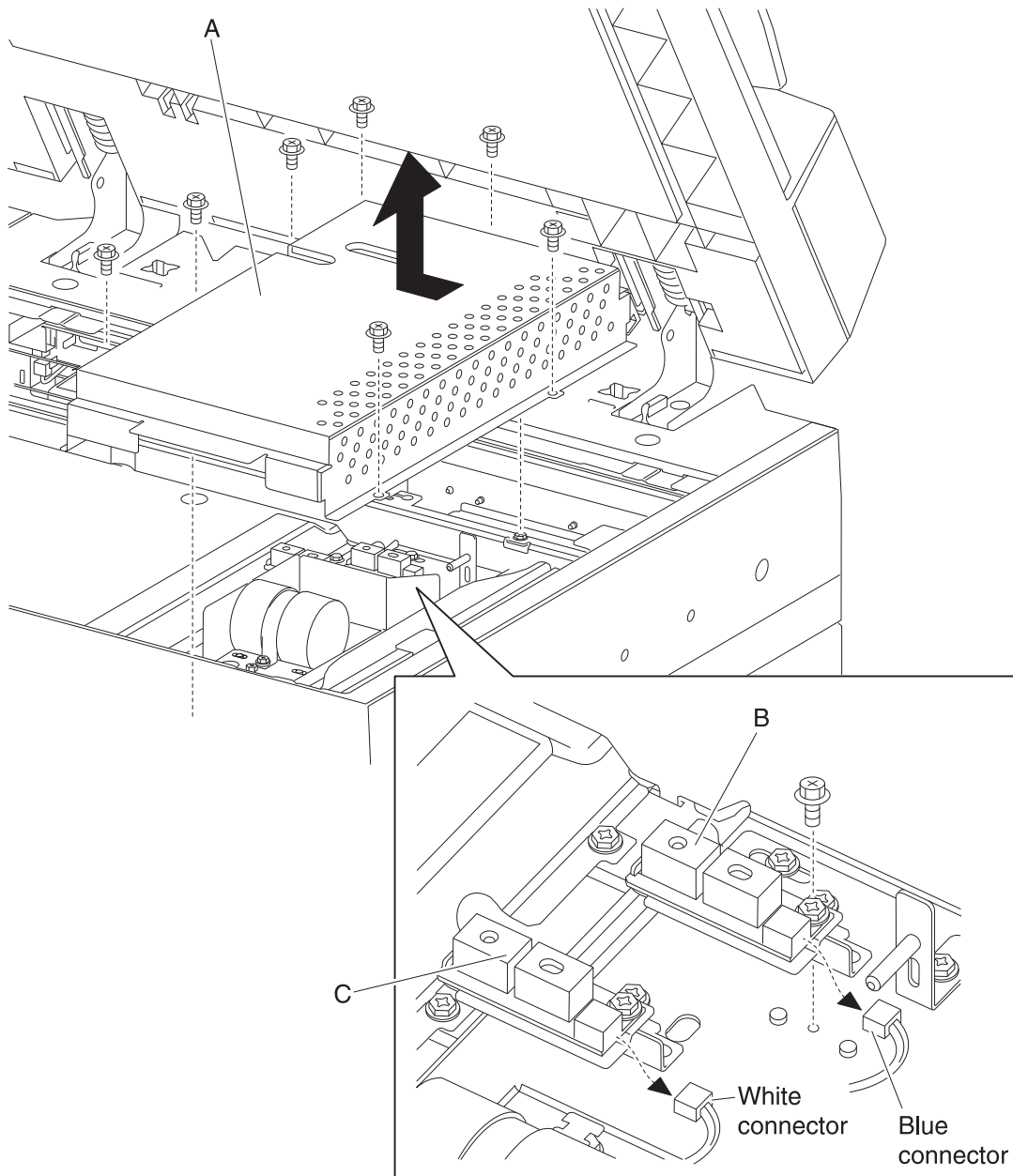
CCD card/lens assembly removal

1. Remove the large platen glass. See **“Large platen glass removal”** on page 4-150.
2. Remove the eight screws securing the cover (A) to the scanner unit assembly.
3. Remove the cover (A).
4. Disconnect the connections to the sensor (platen length APS 1) (B) and the sensor (platen length APS 2) (C).
5. Disconnect the CCD ribbon cable assembly (D) from the CCD card/lens assembly (E).

Warning: Do not remove or disturb any red painted screws or optical misalignment will occur.

6. Remove the four screws securing the CCD card/lens assembly (E) to the scanner unit assembly.
7. Remove the CCD card/lens assembly (E).

Note: Ensure that the white connector is plugged into the sensor (platen length APS 1) (B).



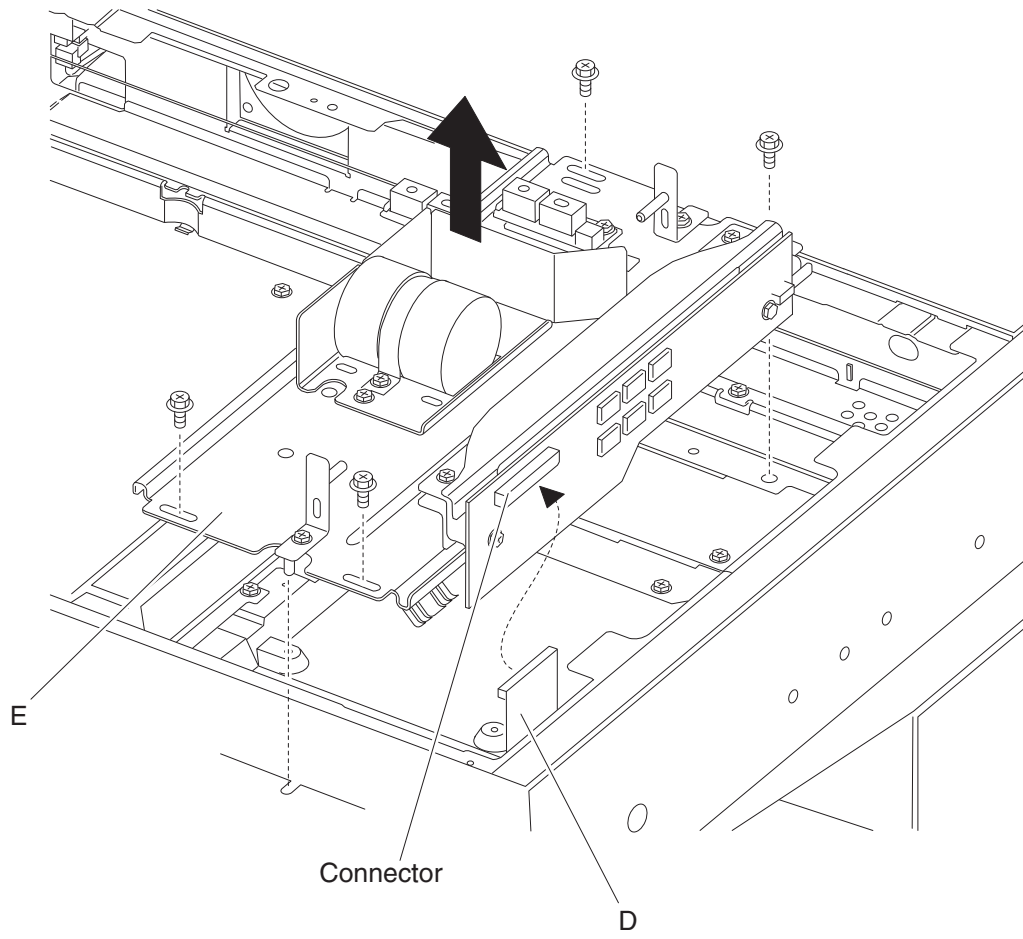
Previous



Next



Go Back



Previous



Next

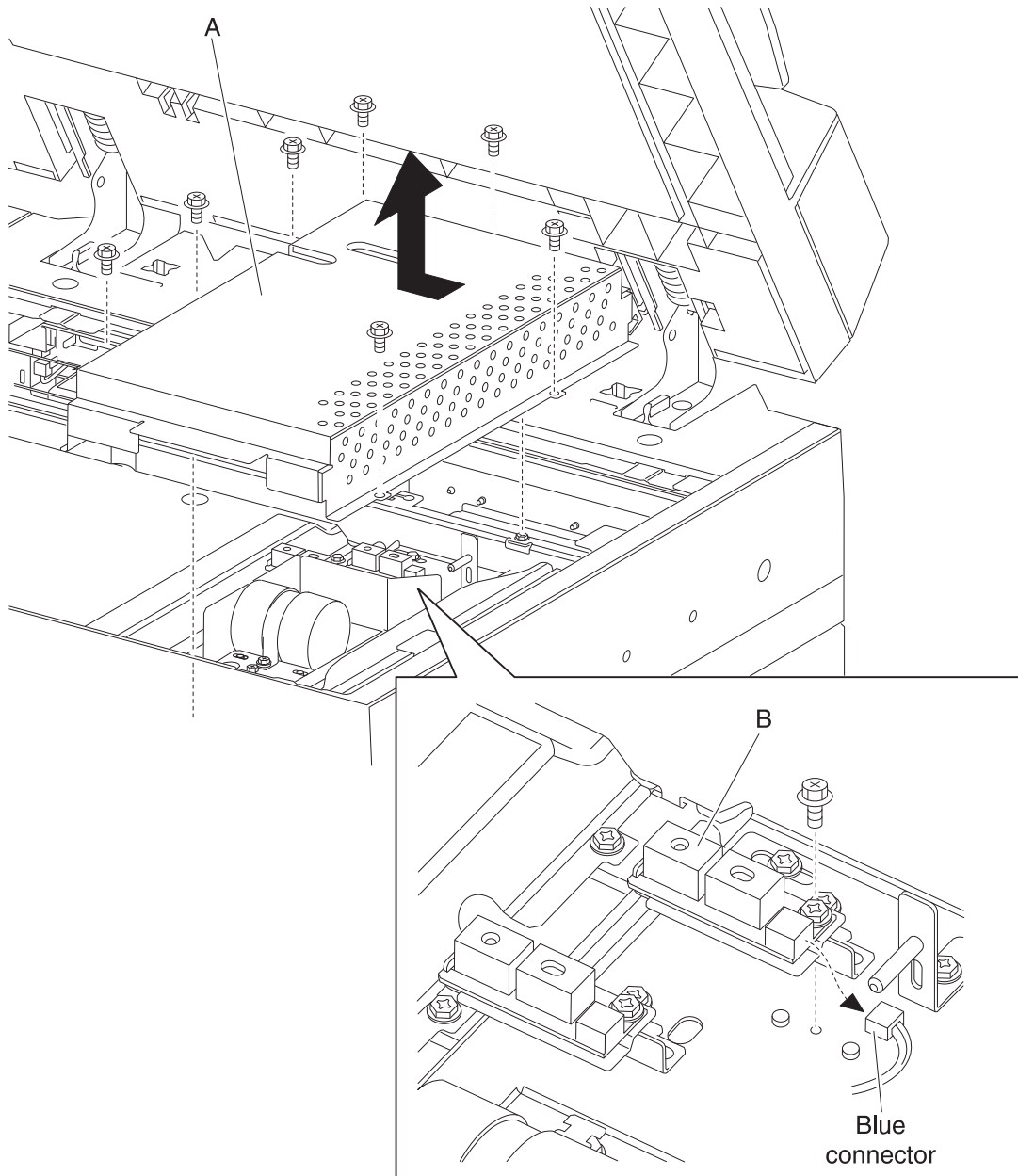


Go Back

Sensor (platen length APS 1) removal

1. Remove the large platen glass. See **“Large platen glass removal”** on page 4-150.
2. Remove the eight screws securing the cover (A) to the scanner unit assembly.
3. Remove the cover (A).
4. Disconnect the sensor (platen length APS 1) (B).
5. Remove the screw securing the sensor (platen length APS 1) (B).
6. Remove the sensor (platen length APS 1) (B).

Note: Ensure that the blue connector is plugged into the sensor (platen length APS 1) (B).



Previous



Next

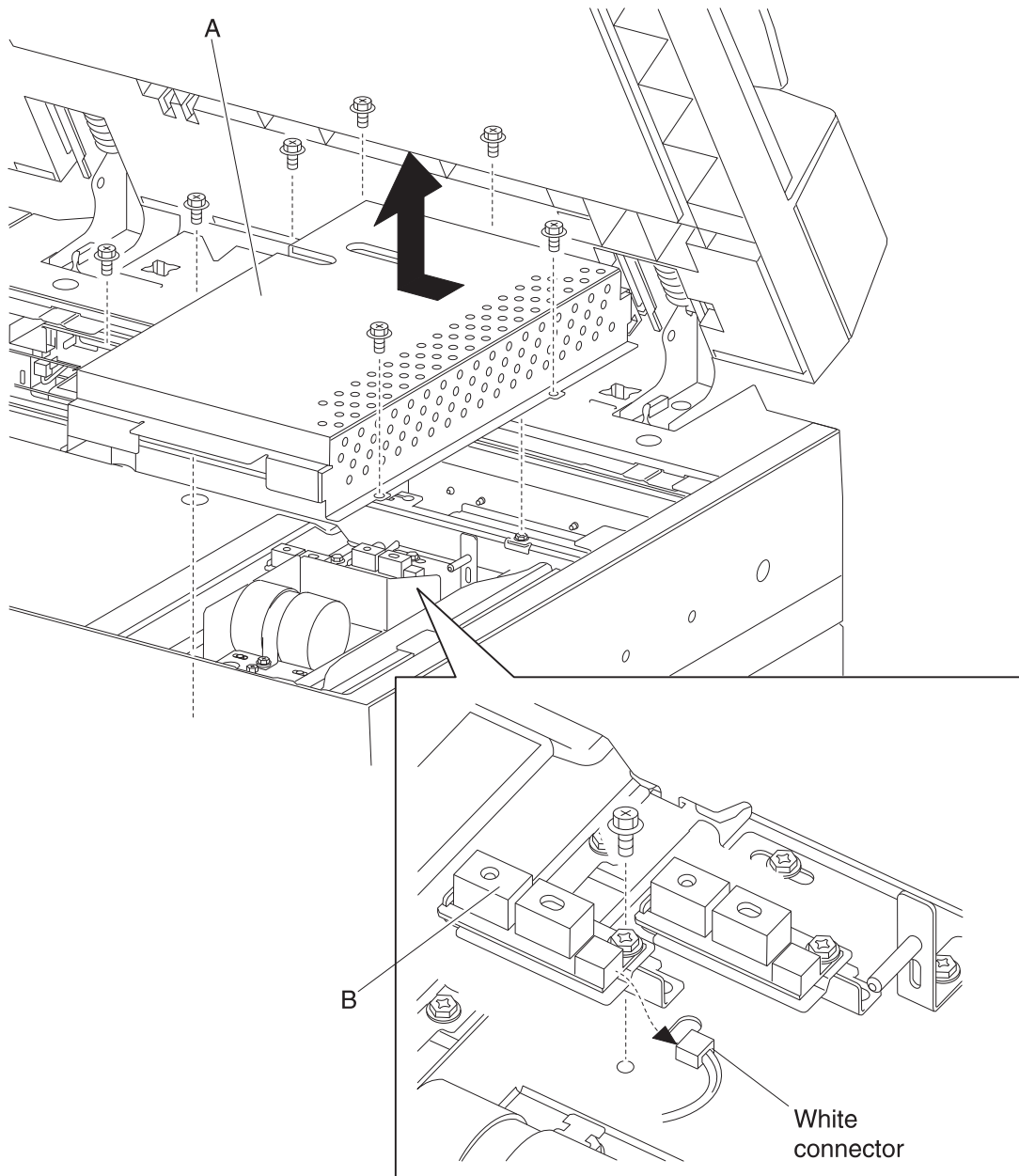


Go Back

Sensor (platen length APS 2) removal

1. Remove the large platen glass. See **“Large platen glass removal”** on page 4-150.
2. Remove the eight screws securing the cover (A) to the scanner unit assembly.
3. Remove the cover (A).
4. Disconnect the sensor (platen length APS 2) (B).
5. Remove the screw securing the sensor (platen length APS 2) (B).
6. Remove the sensor (platen length APS 2) (B).

Note: Ensure that the white connector is plugged into the sensor (platen length APS 2) (B).



Previous



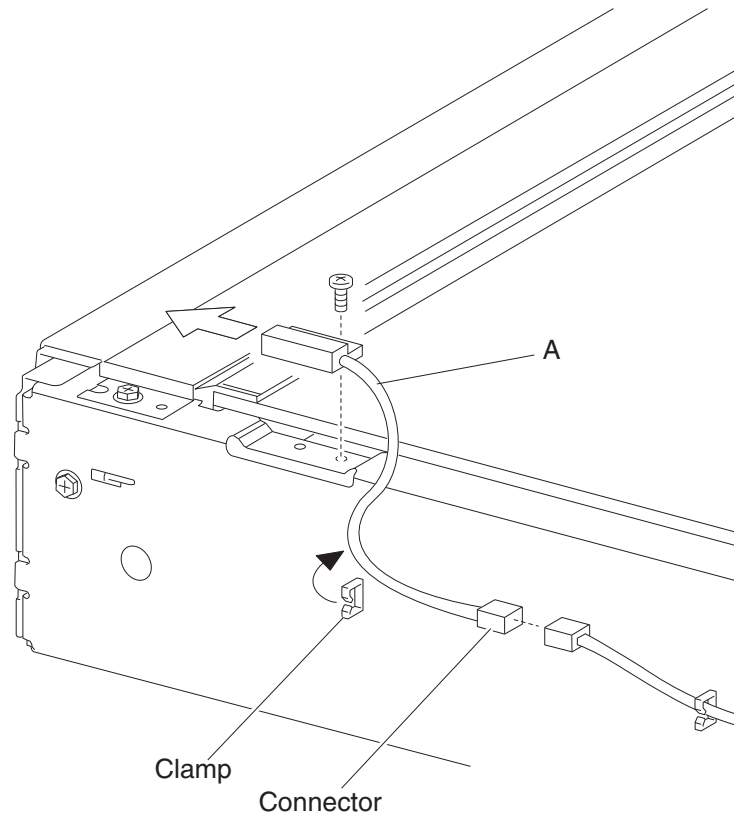
Next



Go Back

Switch (platen interlock) removal

1. Remove the operator panel assembly. See **“Operator panel assembly removal”** on page 4-135.
2. Disconnect the connector from the switch (platen interlock) (A).
3. Release the harness of the switch (platen interlock) (A) from the clamp.
4. Remove the screw securing the switch (platen interlock) (A) to the scanner unit assembly.
5. Remove the switch (platen interlock) (A).



Previous



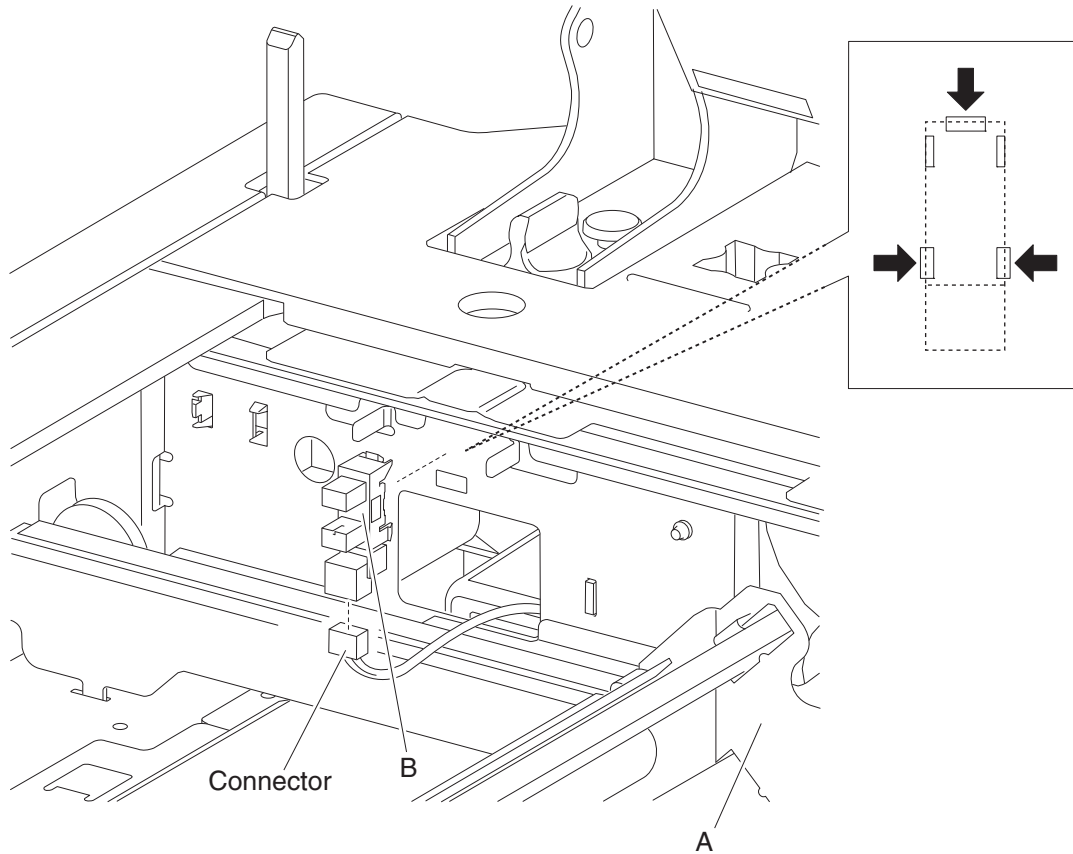
Next



Go Back

Sensor (scanner HP) removal

1. Remove the scanner top rear cover. See **“Scanner top rear cover removal”** on page 4-132.
2. Remove the large platen glass. See **“Large platen glass removal”** on page 4-150.
3. Gently move the scanner carriage (A) rightward to provide access to the sensor (scanner HP) (B).
4. Release the hooks securing the sensor (scanner HP) (B) to the scanner unit assembly.
5. Disconnect the connector from the sensor (scanner HP) (B).
6. Remove the sensor (scanner HP) (B).



Previous



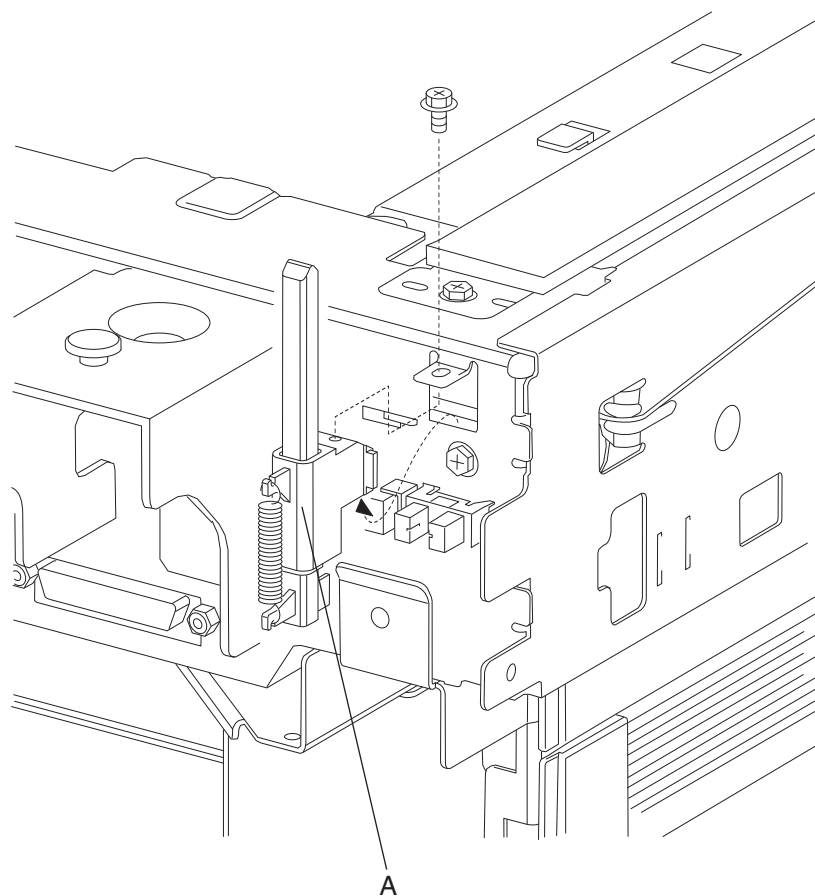
Next



Go Back

ADF angle actuator assembly removal

1. Remove the ADF unit assembly. See **“ADF unit assembly removal” on page 4-167.**
2. Remove the scanner left cover. See **“Scanner left cover removal” on page 4-133.**
3. Remove the scanner right cover. See **“Scanner right cover removal” on page 4-134.**
4. Remove the scanner top rear cover. See **“Scanner top rear cover removal” on page 4-132.**
5. Remove the large platen glass. See **“Large platen glass removal” on page 4-150.**
6. Remove the one screw securing the ADF angle actuator assembly (A) to the scanner unit assembly.
7. Remove the ADF angle actuator assembly (A).



Previous



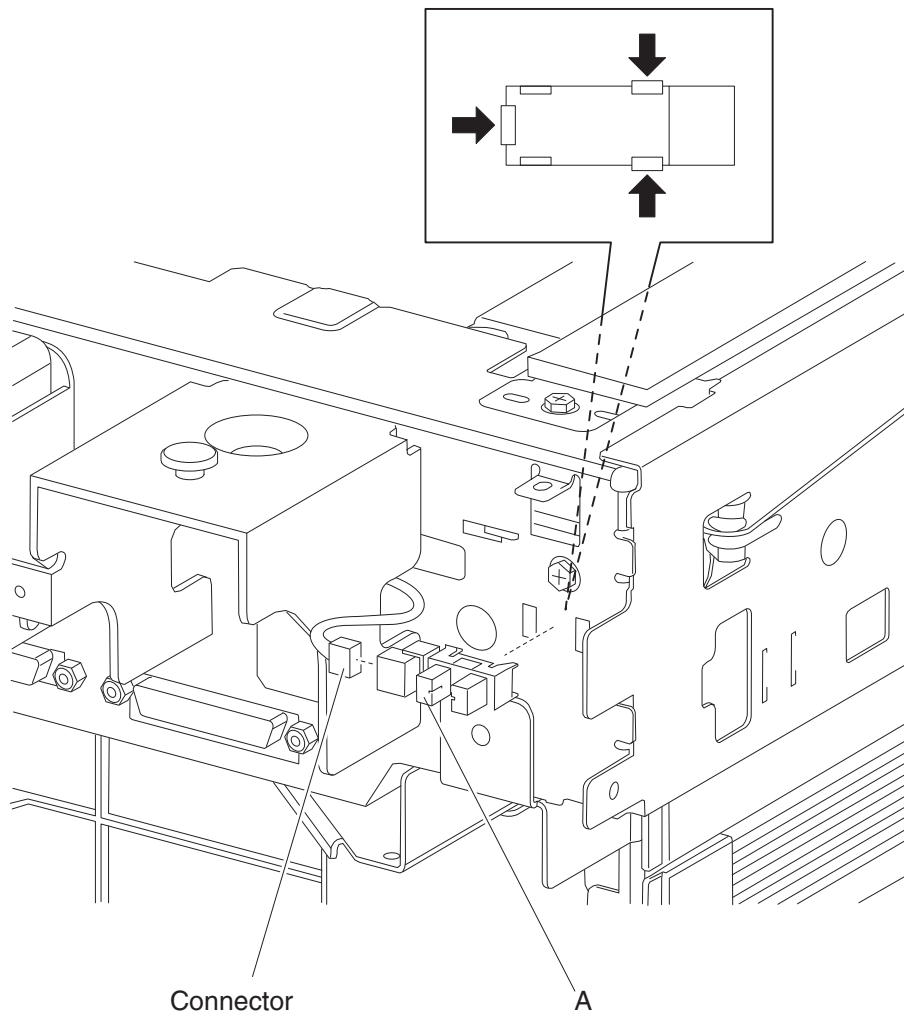
Next



Go Back

Sensor (ADF angle) removal

1. Remove the ADF unit assembly. See **“ADF unit assembly removal” on page 4-167.**
2. Remove the scanner left cover. See **“Scanner left cover removal” on page 4-133.**
3. Remove the scanner right cover. See **“Scanner right cover removal” on page 4-134.**
4. Remove the scanner top rear cover. See **“Scanner top rear cover removal” on page 4-132.**
5. Remove the large platen glass. See **“Large platen glass removal” on page 4-150.**
6. Remove the ADF angle actuator assembly. See **“ADF angle actuator assembly removal” on page 4-160.**
7. Release the hooks securing the sensor (ADF angle) (A) to the scanner unit assembly.
8. Disconnect the connector from the sensor (ADF angle) (A).
9. Remove the sensor (ADF angle) (A).



Previous



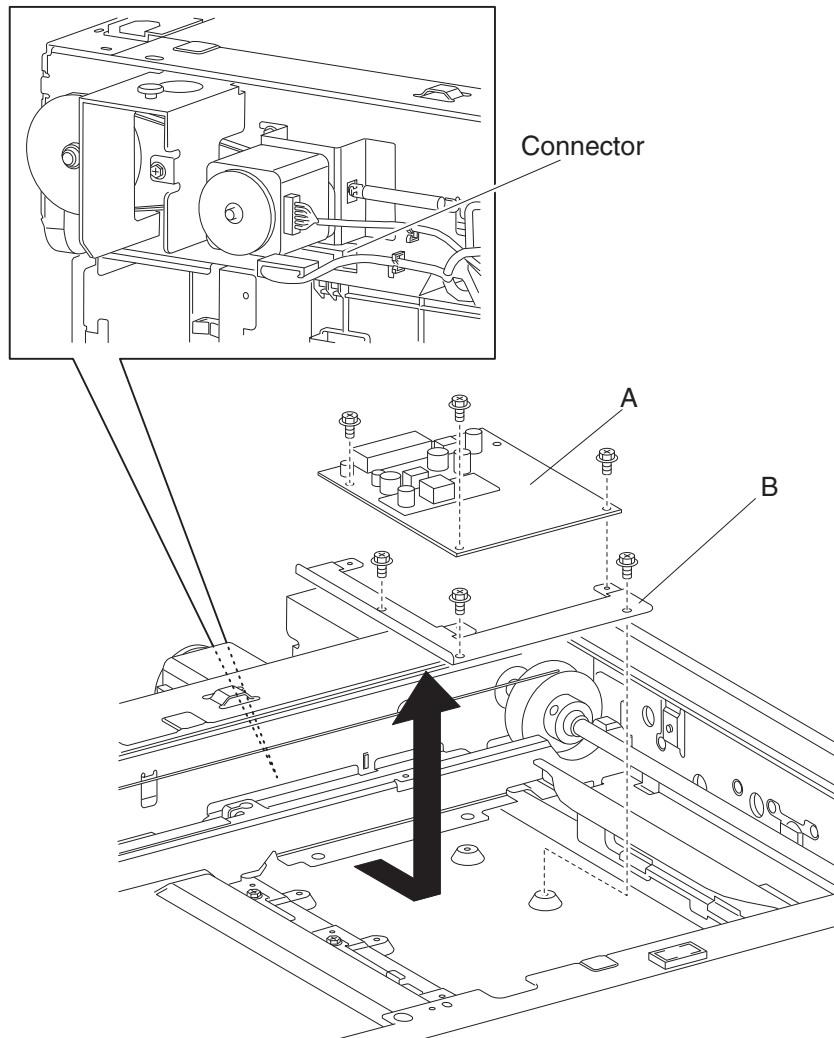
Next



Go Back

Scanner PS card assembly removal

1. Remove the ADF unit assembly. See **“ADF unit assembly removal” on page 4-167.**
2. Remove the large platen glass. See **“Large platen glass removal” on page 4-150.**
3. Remove the CCD card/lens assembly. See **“CCD card/lens assembly removal” on page 4-154.**
4. Remove all connections from the scanner PS card assembly (A).
5. Remove the three screws securing the bracket (B) to the scanner unit assembly.
6. Remove the bracket (B).
7. Remove the three screws securing the scanner PS card assembly (A) to the bracket (B).
8. Remove the scanner PS card assembly (A).



Previous



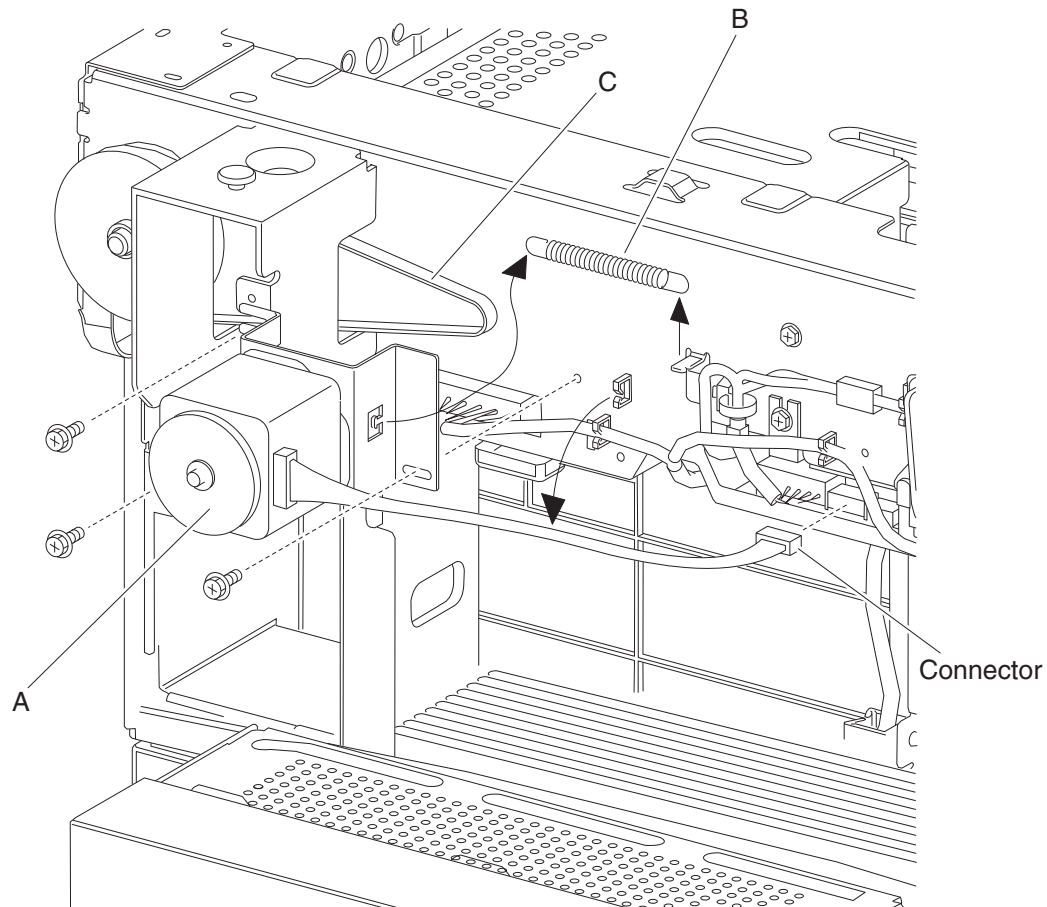
Next



Go Back

Scanner drive motor assembly removal

1. Remove the ADF unit assembly. See **“ADF unit assembly removal”** on page 4-167.
 2. Remove the scanner left cover. See **“Scanner left cover removal”** on page 4-133.
 3. Remove the scanner right cover. See **“Scanner right cover removal”** on page 4-134.
 4. Remove the scanner top rear cover. See **“Scanner top rear cover removal”** on page 4-132.
 5. Disconnect the connector from the scanner drive motor assembly (A).
 6. Remove the scanner drive motor tension spring (B) from the scanner drive motor assembly (A).
 7. Remove the three screws securing the scanner drive motor assembly (A) to the scanner unit assembly.
 8. Remove the scanner drive motor assembly (A).
- Note:** To correctly set the scanner drive belt (C) tension, install the scanner drive motor assembly (A) and the scanner drive motor tension spring (B) before completely tightening the three screws.



Previous



Next

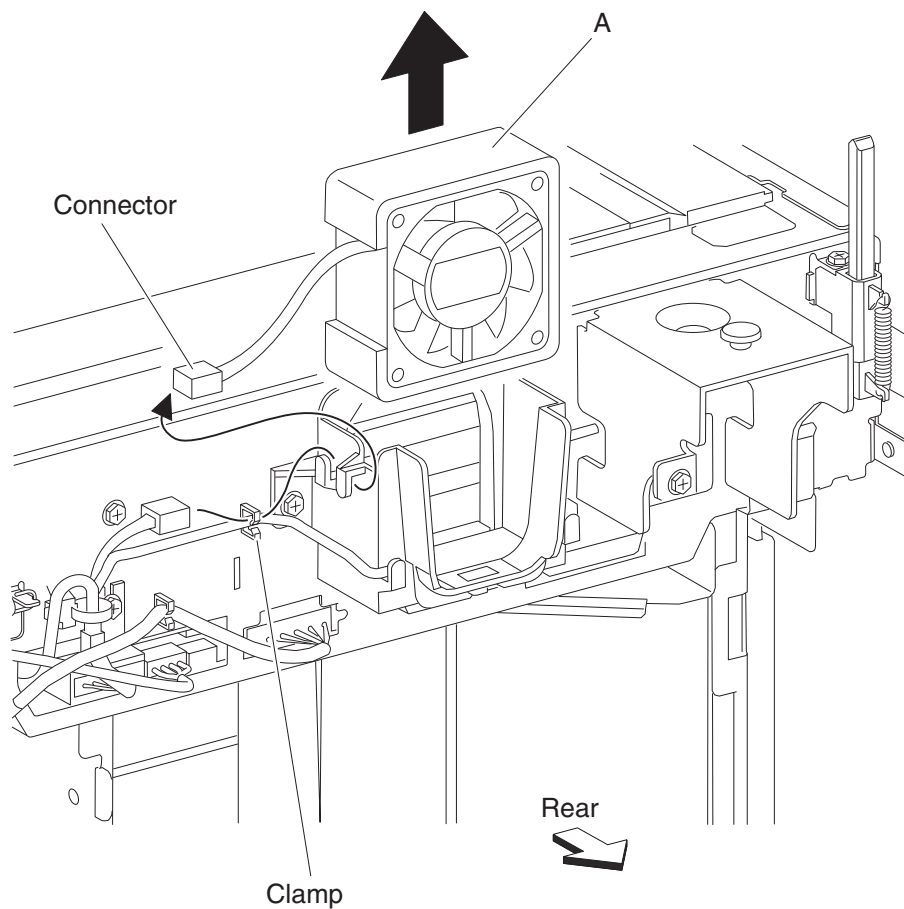


Go Back

Scanner cooling fan removal

1. Remove the ADF unit assembly. See **“ADF unit assembly removal”** on page 4-167.
2. Remove the scanner left cover. See **“Scanner left cover removal”** on page 4-133.
3. Remove the scanner right cover. See **“Scanner right cover removal”** on page 4-134.
4. Remove the scanner top rear cover. See **“Scanner top rear cover removal”** on page 4-132.
5. Disconnect the connector from the scanner cooling fan (A).
6. Remove the harness from the clamp.
7. Lift the scanner cooling fan (A) upward in the direction of the arrow.
8. Remove the scanner cooling fan (A).

Note: Before reinstalling the scanner cooling fan (A), ensure that the label on the scanner cooling fan (A) is facing toward the rear of the scanner unit assembly.



Previous



Next



Go Back

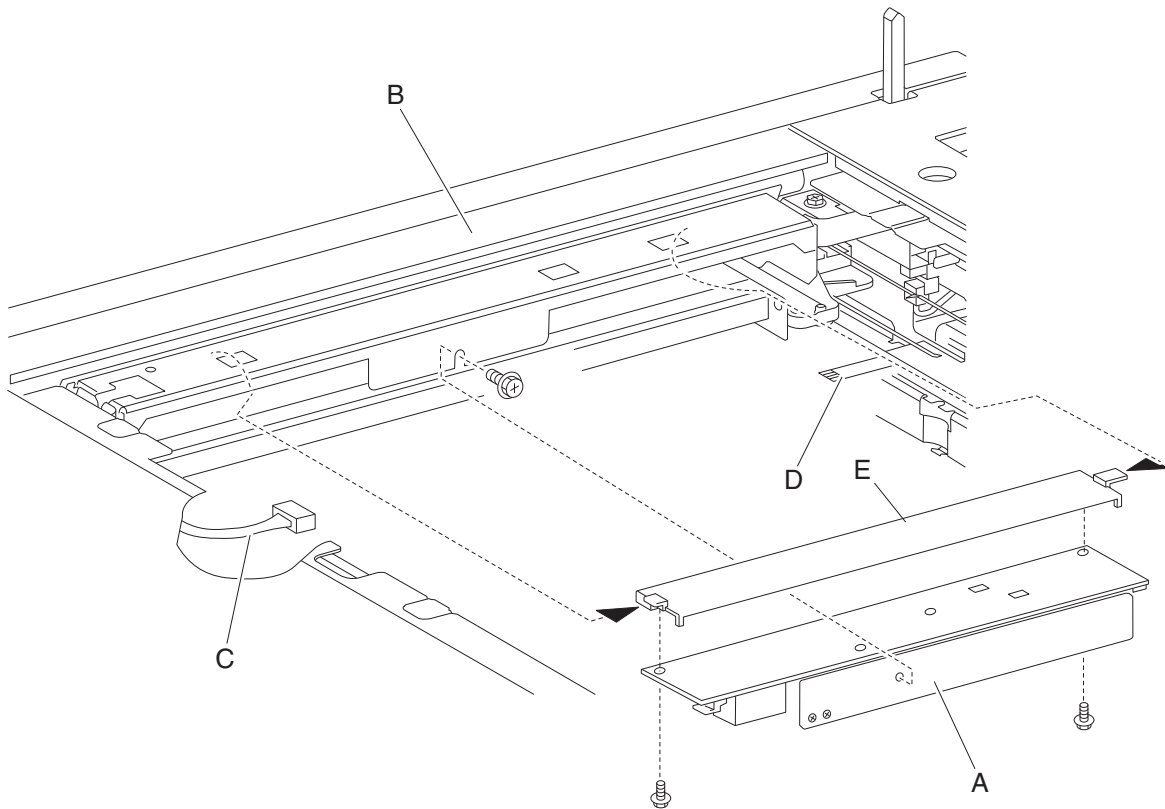
Exposure lamp PS card assembly removal

1. Remove the large platen glass. See **“Large platen glass removal”** on page 4-150.
2. Remove the screw securing the exposure lamp PS card assembly (A) to the scanner carriage (B).
3. Move the exposure lamp PS card assembly rearward then release the two hooks securing it to the scanner carriage (B).
4. Remove the exposure lamp PS card assembly (A).
5. Disconnect the exposure lamp (C) from the exposure lamp PS card assembly (A).
6. Disconnect the exposure lamp PS ribbon cable (D) from the exposure lamp PS card assembly (A).
7. Remove the two screws securing the exposure lamp PS card assembly to the insulator bracket (E).
8. Remove the insulator bracket (E).

Note: Before reinstalling the exposure lamp PS card assembly (A), ensure that all connections are properly connected.

Note: Ensure that all harnesses and cables move freely without binding.

Note: Ensure that the exposure lamp PS card assembly is securely mounted to the scanner carriage (B).



Previous



Next



Go Back

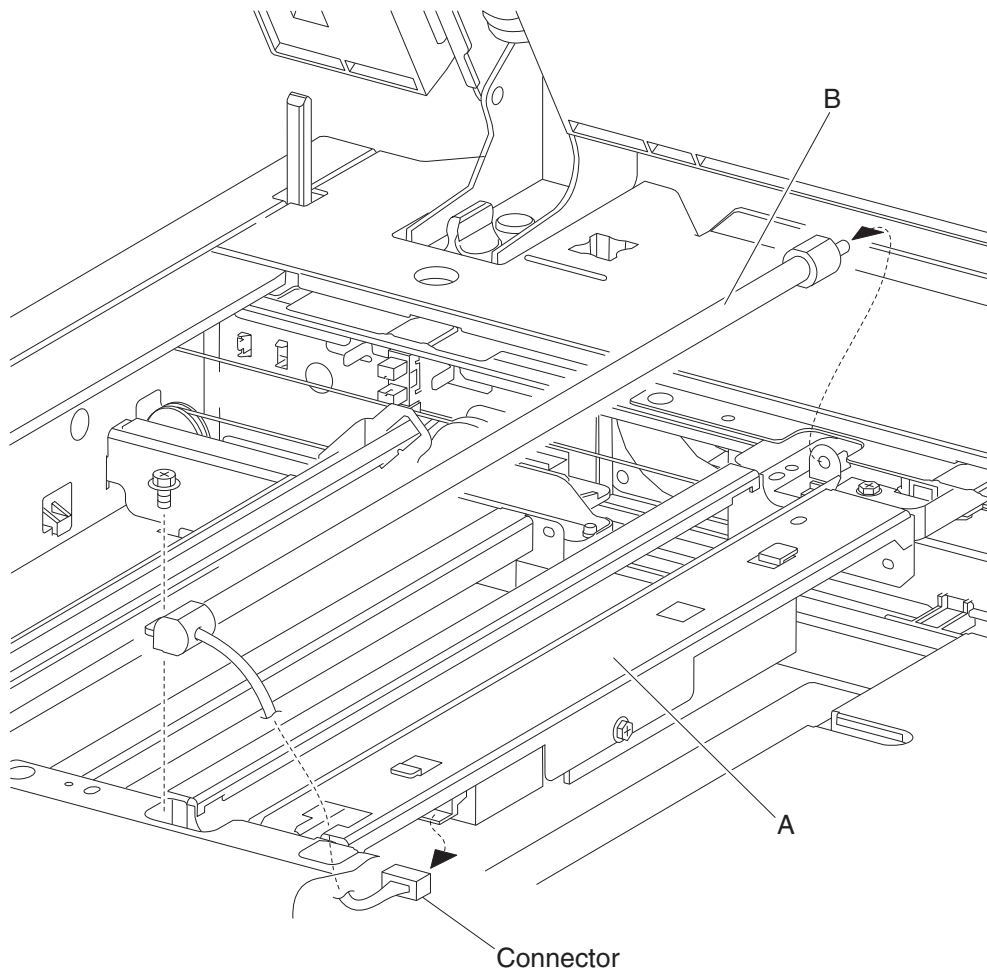
Exposure lamp removal

1. Remove the large platen glass. See **“Large platen glass removal”** on page 4-150.
2. Gently move the scanner carriage (A) to the large opening of the frame to provide access to the front side of the exposure lamp (B).
3. Release the hook and disconnect the connector from the exposure lamp (B).
4. Remove the screw securing the exposure lamp to the scanner carriage (A).
5. Pull out the harness of the exposure lamp (B) from the square opening in the scanner carriage.
6. Remove the exposure lamp (B).

Warning: Do not touch the glass surface of the exposure lamp, or failure will occur (B).

Note: Before reinstalling the exposure lamp (B), ensure that the indexing pin on the end of the exposure lamp (B) is inserted into the hole on the scanner carriage (A).

Note: Ensure that the exposure lamp (B) is properly reconnected.



Previous



Next



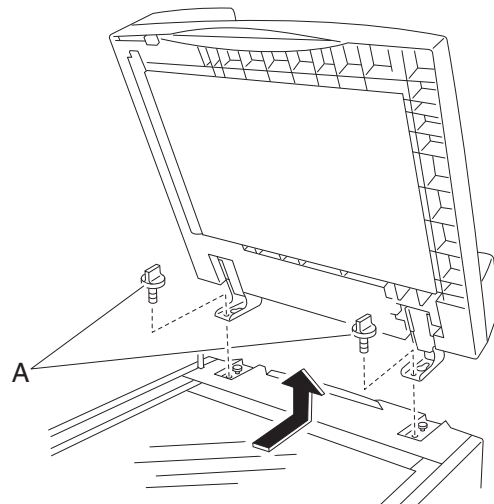
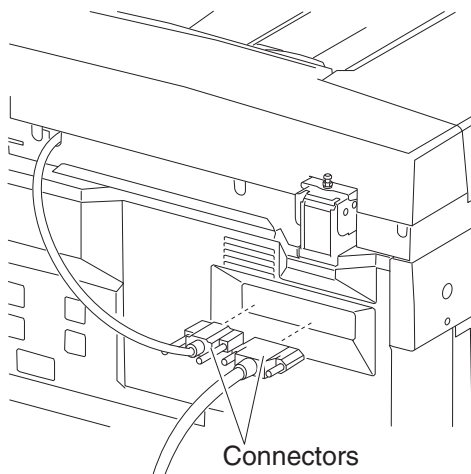
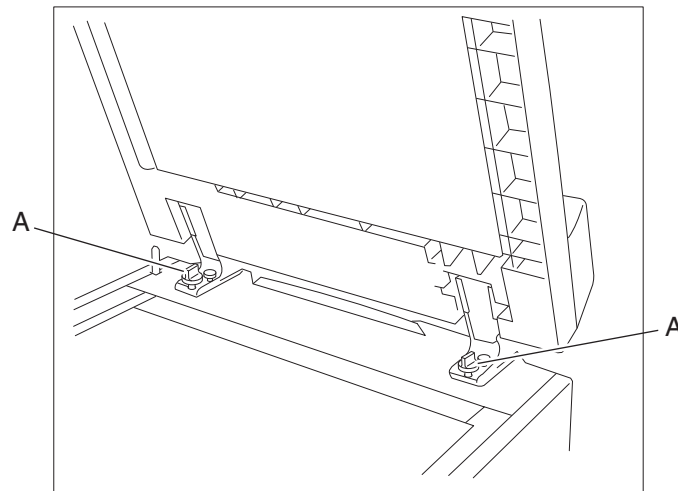
Go Back

ADF removals

ADF unit assembly removal

Warning: The ADF is very heavy; do not drop it, or damage will occur.

1. Remove the platen cushion assembly. See **“Platen cushion removal”** on page 4-168.
2. Open the ADF to its full upright position.
3. Remove the connection from the ADF to the rear of the scanner unit assembly.
4. Remove the two ADF mounting screws (A).
5. Move the ADF slightly rearward, and then lift upward in the direction of the arrow.
6. Remove the ADF unit assembly.



Previous



Next

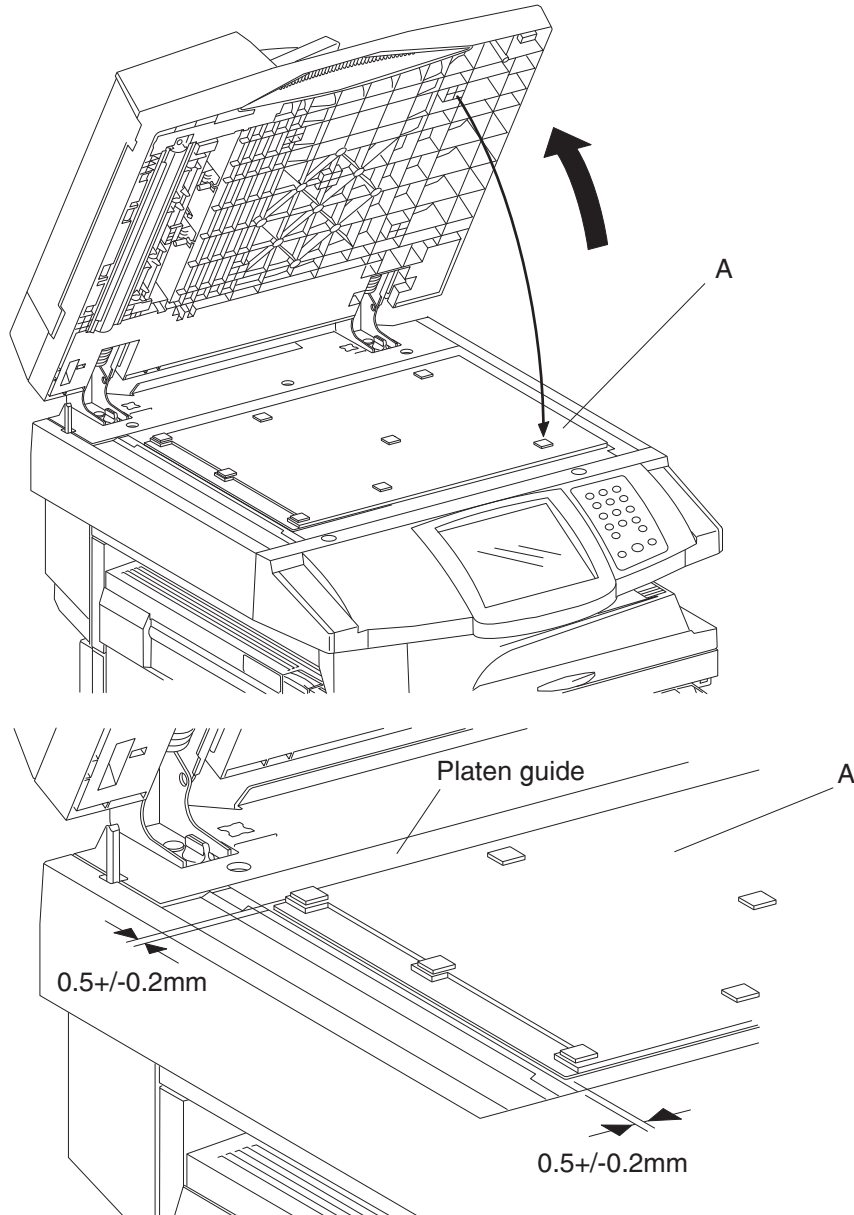


Go Back

Platen cushion removal

1. Open the ADF unit assembly.
2. Gently pull off the platen cushion (A) from the ADF.

Note: Before reinstalling the platen cushion (A), position the ADF in its upright position, and place the platen cushion (A) on the large platen glass (B) flush with the left and top edges. Gently close the ADF to attach the platen cushion (A) to the ADF.



Previous



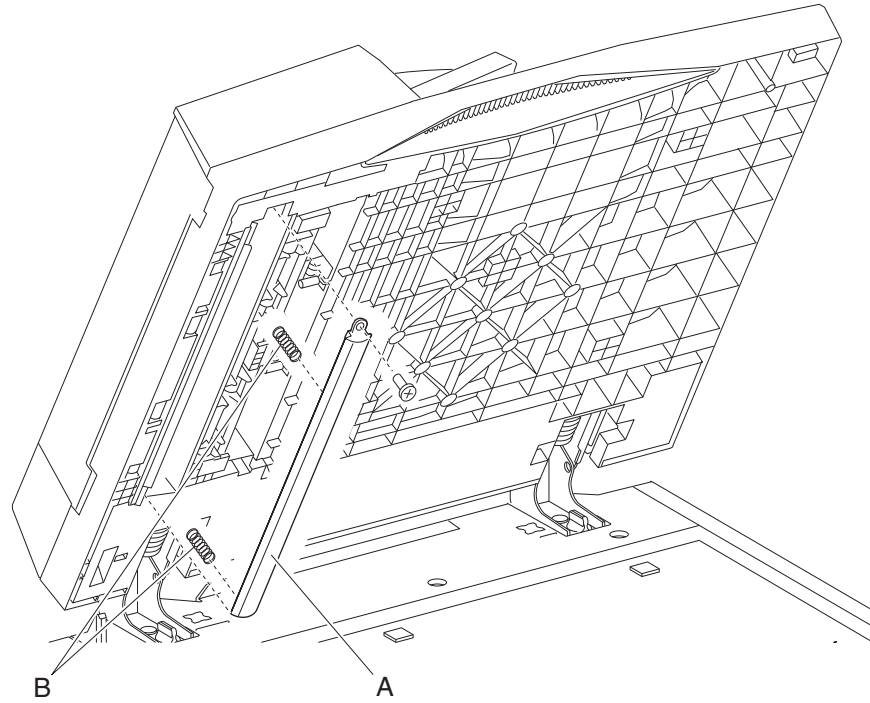
Next



Go Back

Media scan guide removal

1. Open the ADF unit assembly.
2. Remove the screw securing the media scan guide (A) to the ADF unit assembly.
3. Remove the media scan guide (A).
4. Remove the two media scan guide springs (B) from the media scan guide (A).



Previous



Next



Go Back

ADF media feed assembly removal

1. Remove the ADF unit assembly. See “**ADF unit assembly removal**” on page 4-167.
2. Remove the ADF front cover assembly. See “**ADF front cover assembly removal**” on page 4-174.
3. Remove the ADF rear cover. See “**ADF rear cover removal**” on page 4-173.
4. Remove the ADF left cover assembly. See “**ADF left cover assembly removal**” on page 4-176.
5. Remove the document tray assembly. See “**Document tray assembly removal**” on page 4-172.
6. Disconnect connectors P754, P755, P758, P761, P785, and P786 from the ADF controller card assembly (A).
7. Loosen the set screw securing the damper (B) with an Allen wrench.
8. Remove the damper (B).
9. Disconnect the two connections from the switch (ADF left cover interlock) (D) with needle nose pliers.
10. Disconnect the connector from the document set LED (E).
11. Disconnect the connector from the inverter solenoid assembly (F).
12. Release the harness from the three clamps.
13. Remove the two front screws and the five rear screws securing the ADF media feed assembly (G) to the ADF.
14. Release the two harness from the clamp molded into the base of the ADF.
Note: The above clamp is located beneath the ADF registration motor. Do not excessively bend the clamp or it may break.

Previous



Next



Go Back

15. Remove the ADF media feed assembly (G) from the ADF.

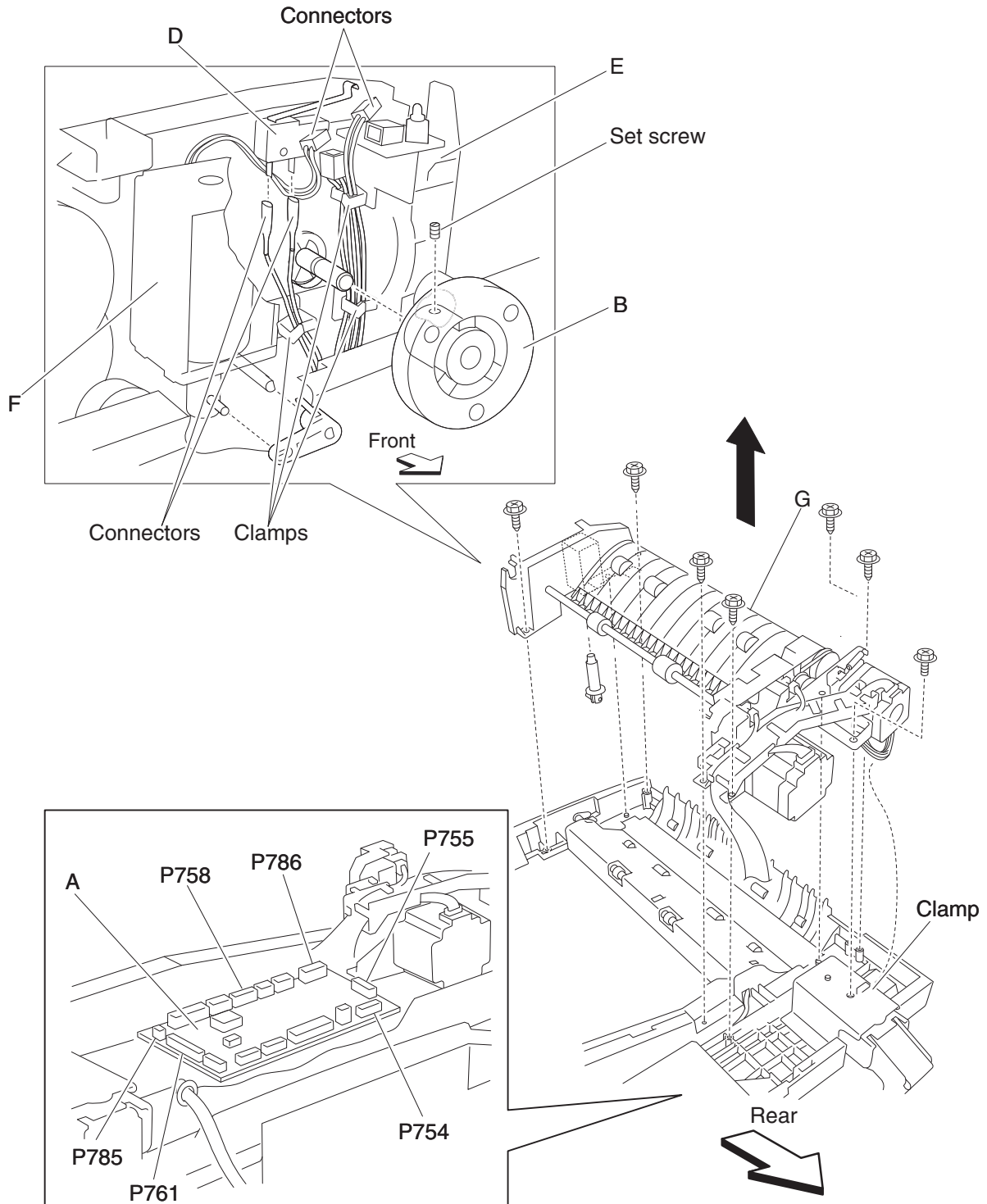
Note: The plunger in the inverter solenoid assembly (F) will become detached.

Note: Before reinstalling the ADF media feed assembly (G), ensure that the harnesses are reinserted into their appropriate clamps.

Note: Ensure that the plunger is properly reinserted into the inverter solenoid assembly (F).

Note: Ensure that all connections are properly reconnected.

Note: When replacing the complete ADF media feed assembly, first remove the ADF left cover assembly and the ADF registration motor from the replacement part.



Previous



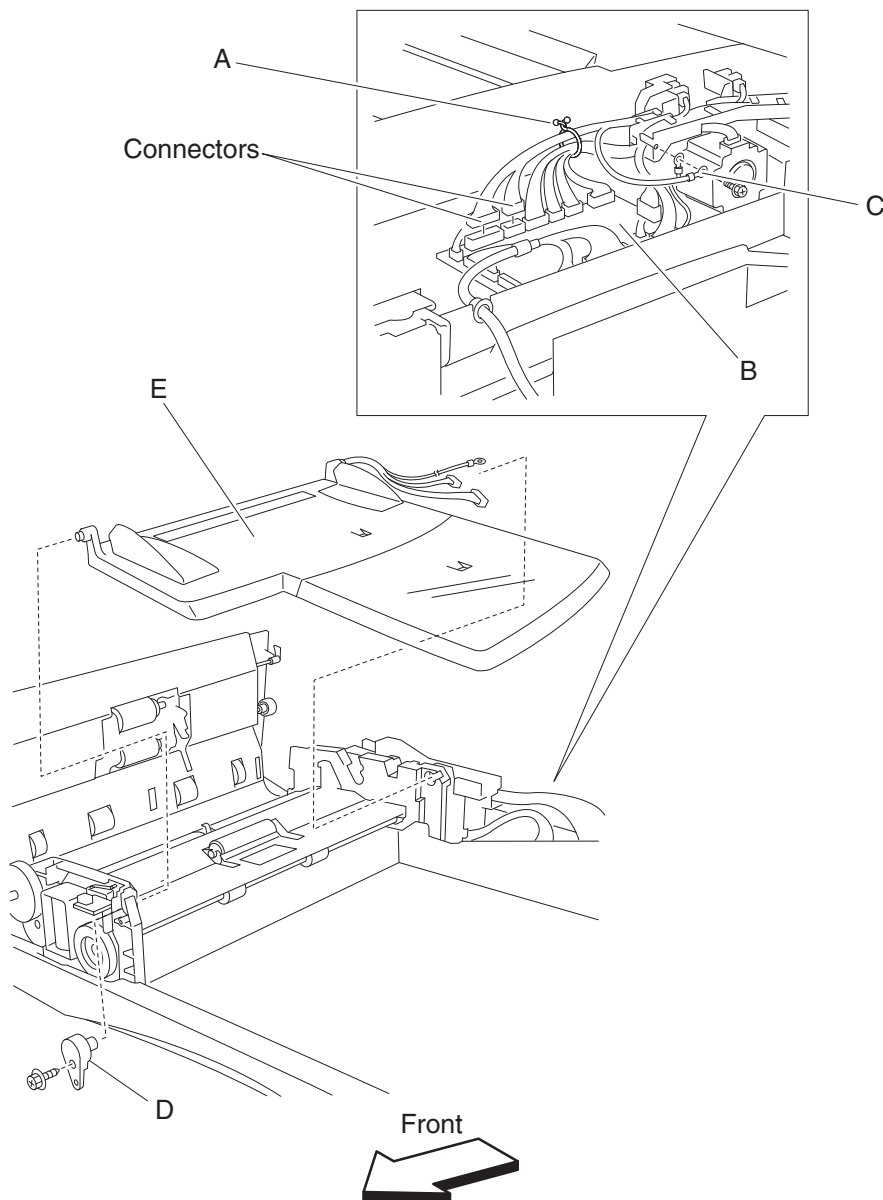
Next



Go Back

Document tray assembly removal

1. Remove the ADF front cover assembly. See **“ADF front cover assembly removal” on page 4-174.**
 2. Remove the ADF rear cover. See **“ADF rear cover removal” on page 4-173.**
 3. Open the ADF left cover assembly.
 4. Release the wire clamp (A) that binds the harnesses together.
 5. Disconnect the two connectors P759 and P760 from the ADF controller card assembly (B).
 6. Remove the screw securing the green ground wire (C).
 7. Remove the screw securing the document tray hinge (D).
 8. Remove the document tray hinge (D).
 9. Move the document tray assembly (E) upward to detach it from the ADF.
 10. Remove the document tray assembly (E).
 11. Remove the harness from the round opening in the ADF.
- Note:** Before reinstalling the document tray assembly, ensure all connections are properly reconnected.
Note: Ensure the green ground wire (C) is reconnected.



Previous



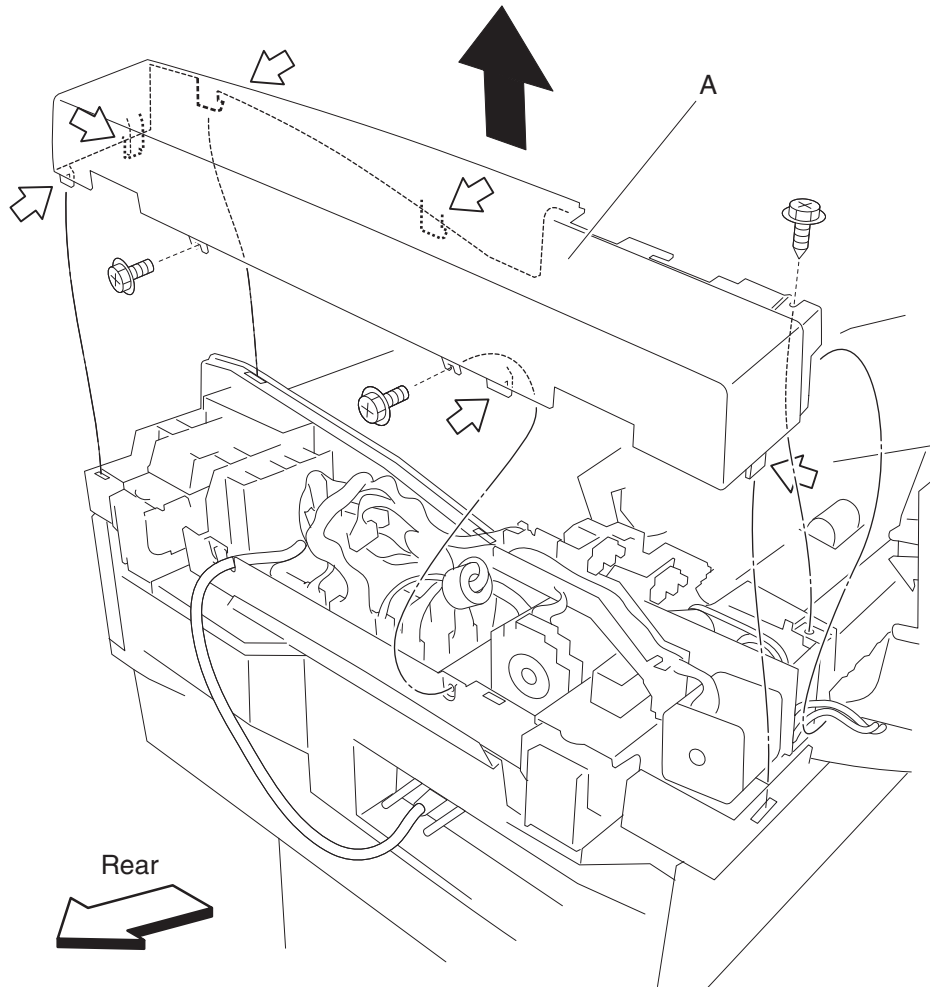
Next



Go Back

ADF rear cover removal

1. Open the ADF left cover assembly.
2. Lift the document tray assembly.
3. Remove the three screws securing the ADF rear cover (A).
4. Lift the ADF rear cover (A) upward.
5. Remove the ADF rear cover (A).



Previous



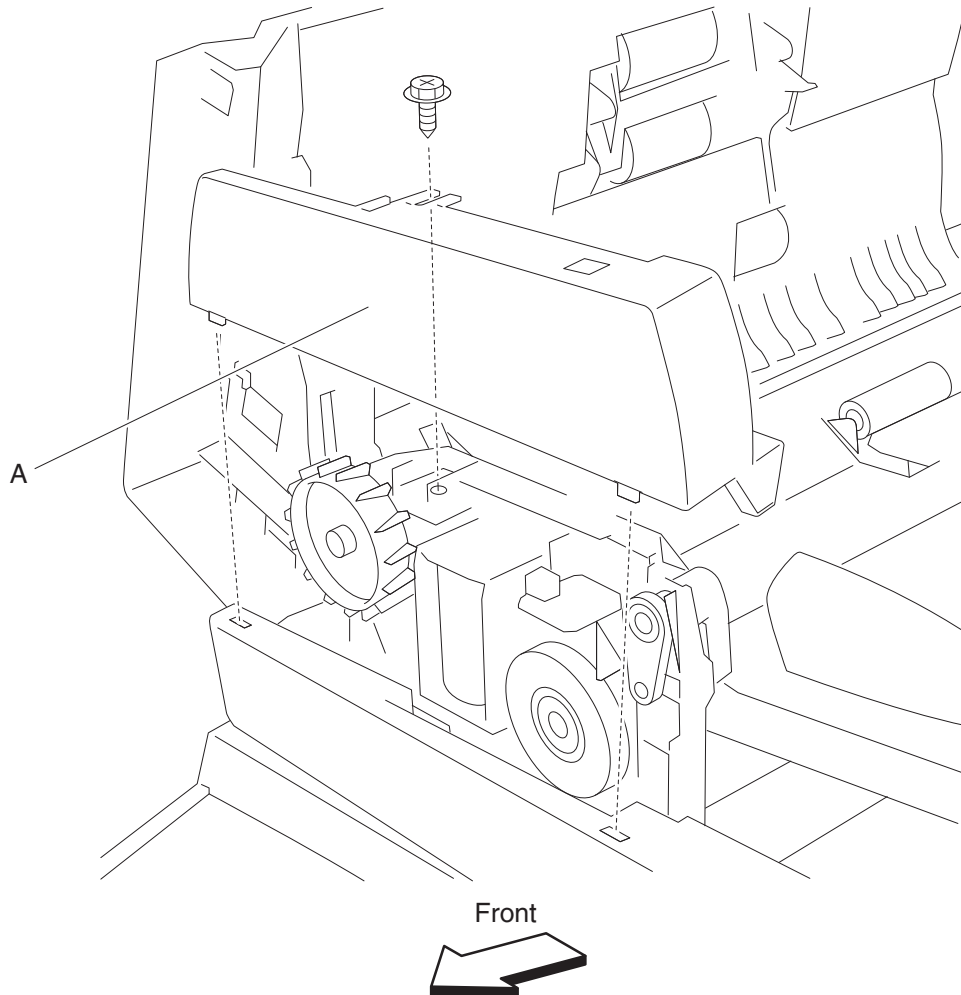
Next



Go Back

ADF front cover assembly removal

1. Open the ADF left cover assembly.
2. Remove the screw securing the ADF front cover assembly (A).
3. Lift the ADF front cover (A) upward.
4. Remove the ADF left cover assembly (A).



Previous



Next



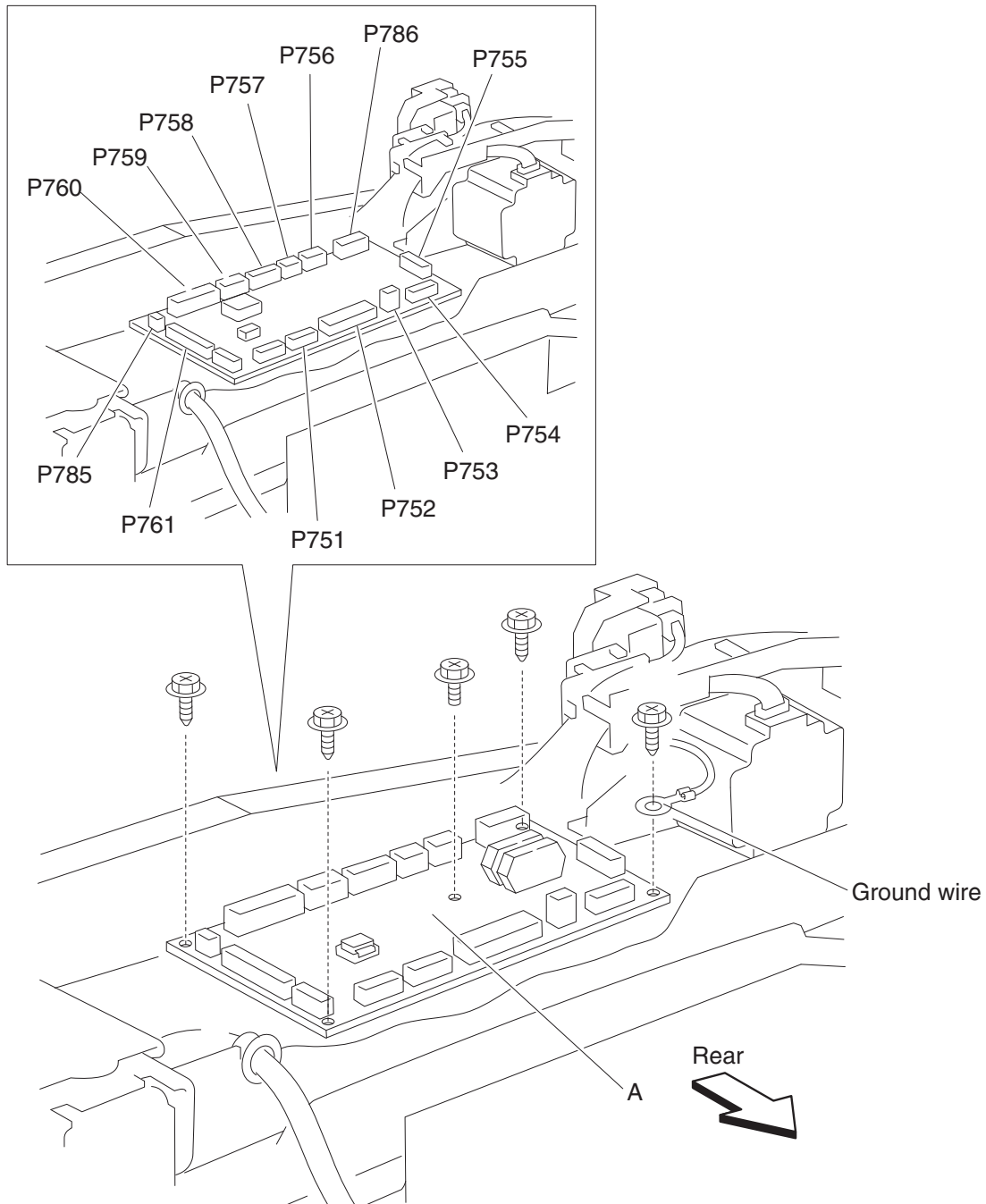
Go Back

ADF controller card assembly removal

1. Remove the ADF rear cover. See **“ADF rear cover removal” on page 4-173.**
2. Disconnect all connectors from the ADF controller card assembly (A).
3. Remove the five screws securing the ADF controller card assembly (A).
4. Remove the ADF controller card assembly (A).

Note: Ensure that all connections are properly reconnected.

Note: Ensure that the ground wire is reconnected.



Previous



Next



Go Back

ADF left cover assembly removal

1. Open the ADF left cover assembly.
2. Remove the ADF front cover assembly. See [“ADF front cover assembly removal” on page 4-174](#).
3. Remove the ADF rear cover. See [“ADF rear cover removal” on page 4-173](#).
4. Remove the ADF left cover media guide. See [“ADF left cover media guide removal” on page 4-189](#).
5. Remove the screw securing the harness retainer (A).
6. Remove the harness retainer (A).
7. Remove the screw securing the left cover hinge retainer (B).
8. Remove the left cover hinge retainer (B).
9. Remove the screw securing the front hinge pin (C).
10. Remove the front hinge pin (C).
11. While holding the ADF left cover assembly, remove the rear hinge pin with needle nose pliers (D), and remove the ADF left cover assembly (E) from the ADF.

Warning: Do not allow the ADF left cover assembly (E) to hang by the harness, or damage will occur.

12. Remove the left cover pinch roll assembly. See [“Left cover pinch roll assembly removal” on page 4-179](#).
13. Disconnect the connector from the sensor (pick roll position HP) (F) located on the ADF left cover assembly (E).
14. Remove the screw from the green ground wire (G).
15. Remove the screw securing the grounding plate (H).
16. Remove the grounding plate (H).
17. Remove the two screws securing the harness guide (I).
18. Detach the harness guide (I).
19. Disconnect the connector from the pick roll position motor assembly (J).

Previous



Next



Go Back

20. Remove the harness from the rectangular opening of the side of the ADF left cover assembly.

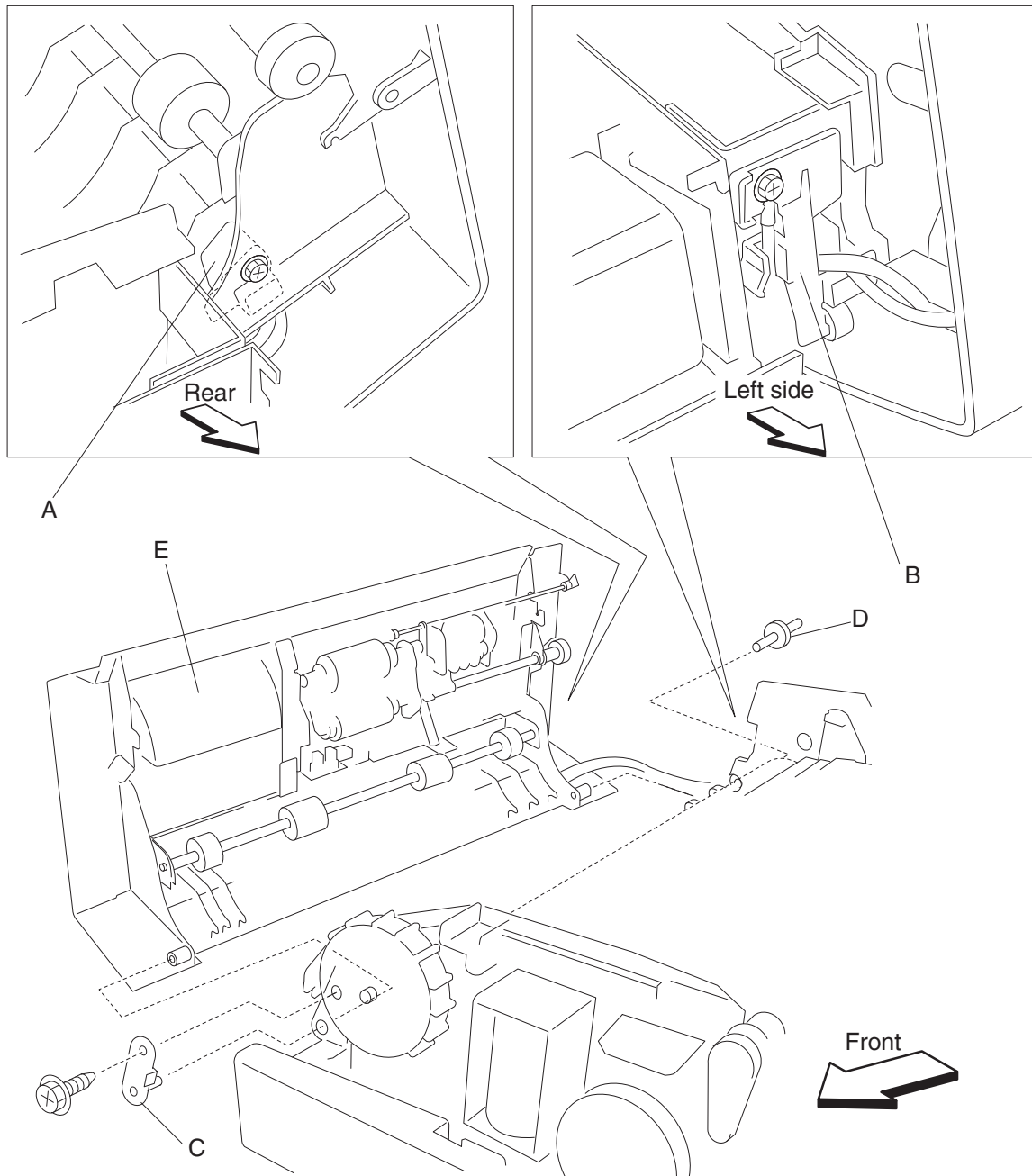
Note: Before reinstalling the ADF left cover assembly (E), ensure that the harness is properly routed and is not pinched.

Note: Ensure that the harnesses are properly captured by the harness guide (I).

Note: Ensure that the green ground wire (G) and the grounding plate (H) is reconnected.

Note: Ensure that the ADF left cover assembly (E) opens and closes without binding.

Note: Ensure that the spring (K) attached to the feed/pick roll assembly (L) is properly reinstalled.



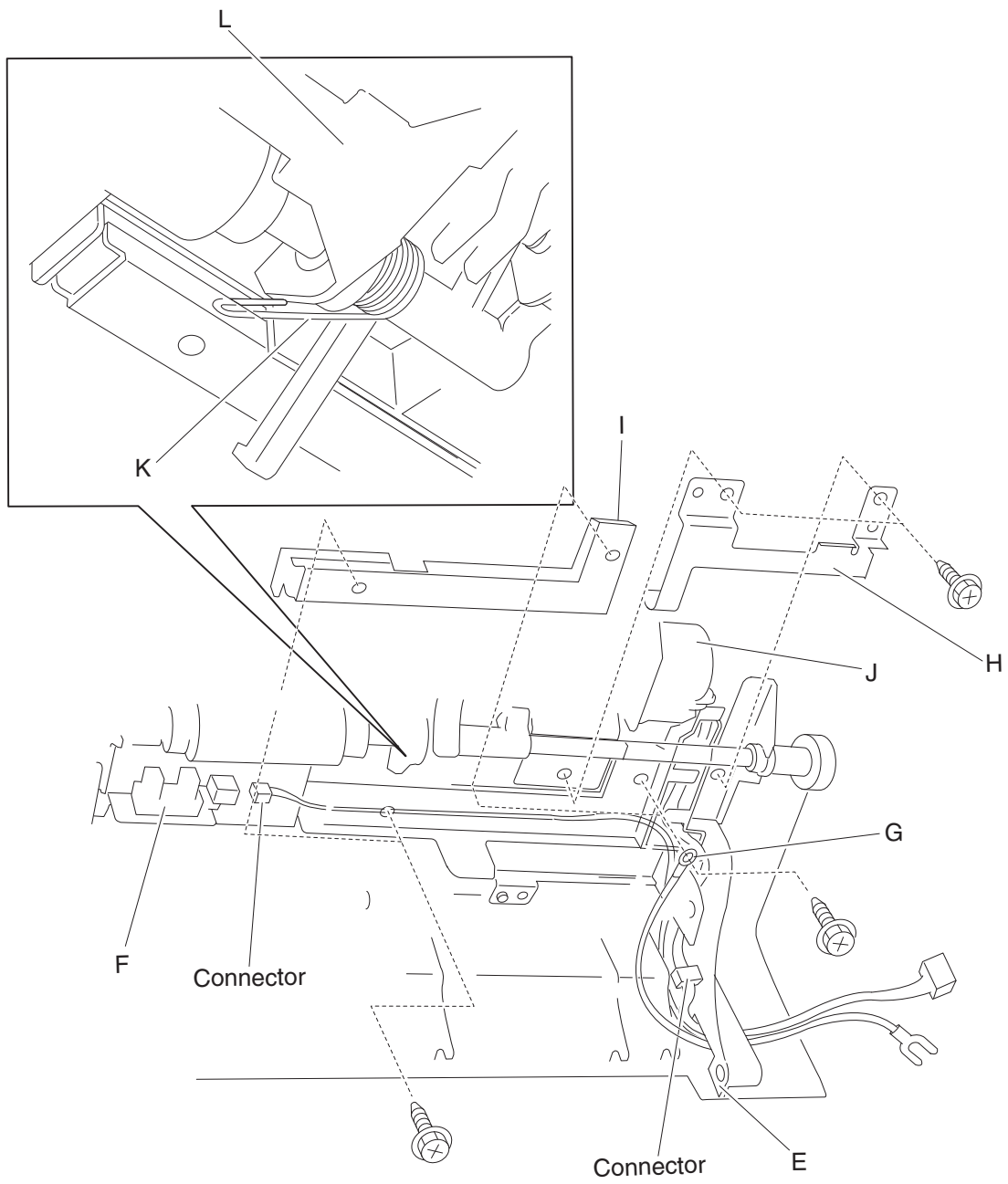
Previous



Next



Go Back



Previous



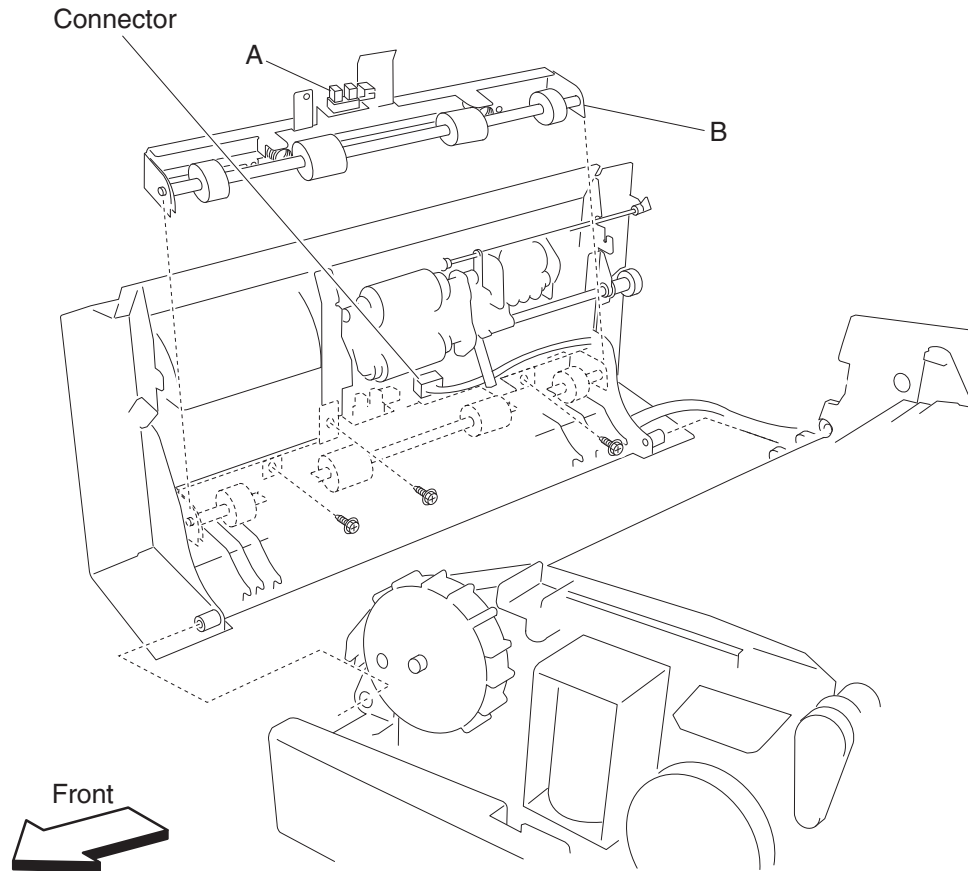
Next



Go Back

Left cover pinch roll assembly removal

1. Open the ADF left cover assembly.
2. Disconnect the connector from the sensor (pick roll position HP) (A).
3. Remove the three screws securing the left cover pinch roll assembly (B).
4. Remove the left cover pinch roll assembly (A).



Previous



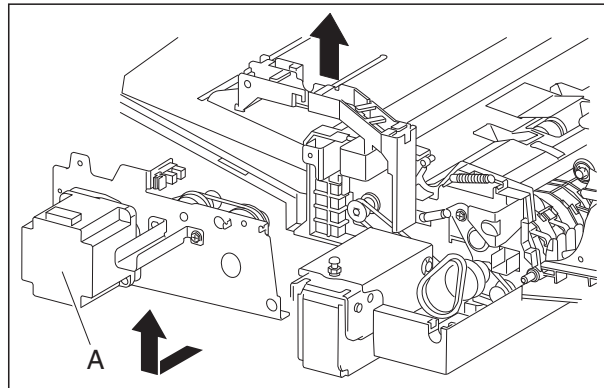
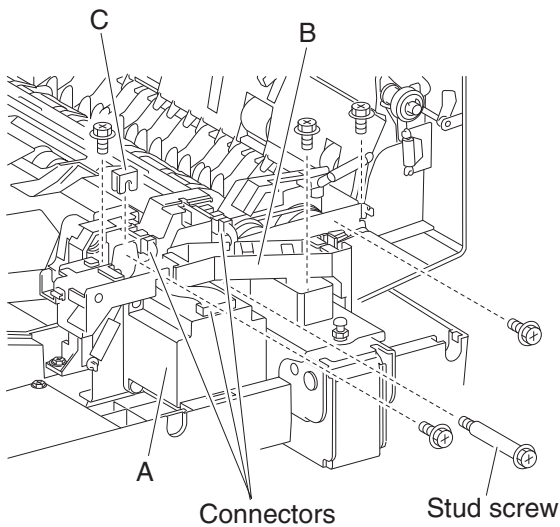
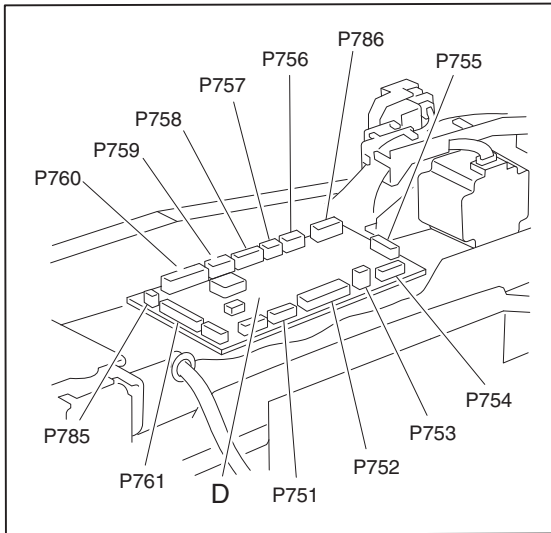
Next



Go Back

ADF feed drive motor assembly removal

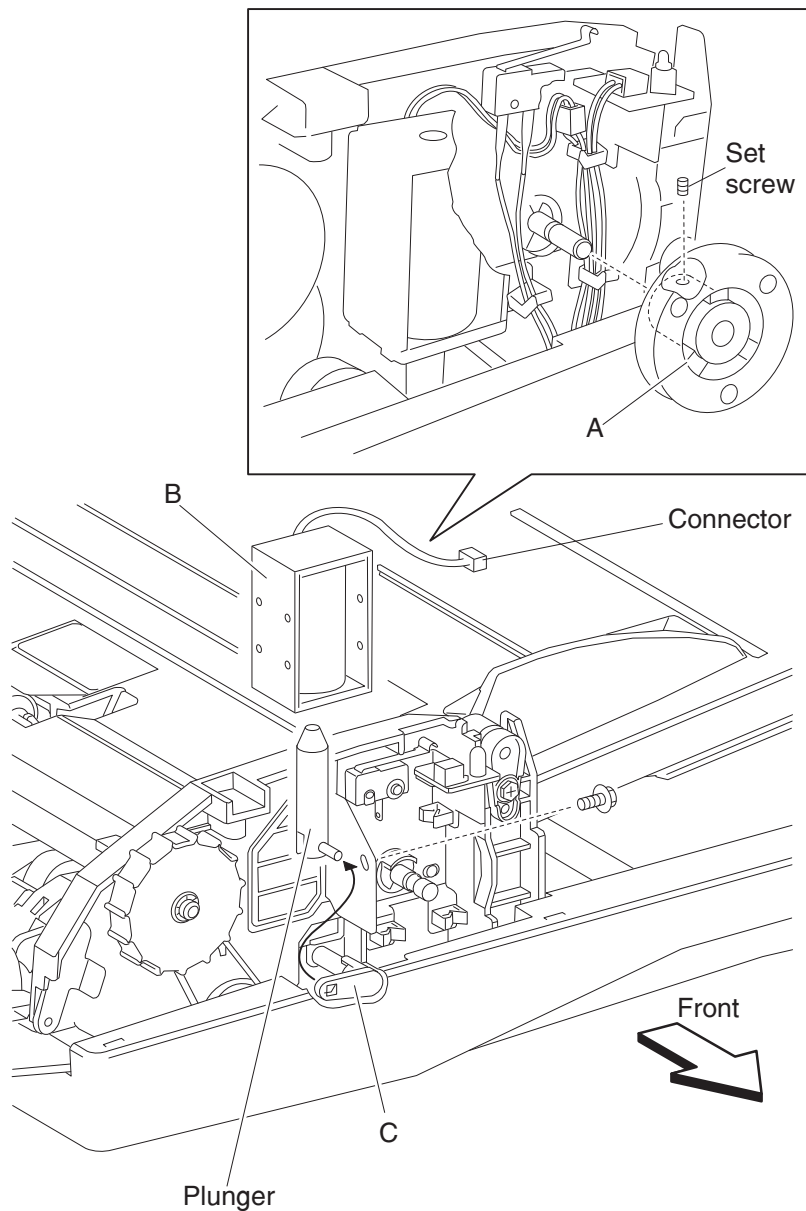
1. Open the ADF left cover assembly.
2. Lift the document tray assembly.
3. Remove the ADF rear cover. See **“ADF rear cover removal” on page 4-173.**
4. Remove the ADF registration motor. See **“ADF registration motor removal” on page 4-209.**
5. Disconnect the three connectors from the ADF dual drive motor assembly (A).
6. Remove the screw securing the harness guide (B) to the ADF.
7. Remove the two screws securing the ADF dual drive motor assembly (A) to the base of the ADF.
8. Remove the two screws securing the ADF dual drive motor assembly (A) to the rear of the ADF.
9. Remove the stud screw securing the ADF dual drive motor assembly (A) to the rear of the ADF.
10. Remove the plastic support (C).
11. Remove the connectors P751, P754, P755, P758, P761, P785 and P786 from the ADF controller card assembly (D).
12. Remove the harness guide (B) containing the harnesses and swing it out of the way.
13. Remove the ADF dual drive motor assembly (A) from the ADF.



Inverter solenoid assembly removal

1. Open the ADF left cover assembly.
2. Remove the ADF front cover assembly. See **“ADF front cover assembly removal” on page 4-174.**
3. Loosen the set screw securing the damper (A).
4. Remove the damper (A).
5. Disconnect the connector from the inverter solenoid assembly (B).
6. Remove the screw securing the inverter solenoid assembly (B).
7. Remove the inverter solenoid assembly (B).
8. Remove the plunger from the inverter lever (C).

Note: Before reinstalling the inverter solenoid assembly (B), ensure that the plunger is properly inserted into the inverter solenoid assembly (B) and attached to the inverter lever (C).



Previous



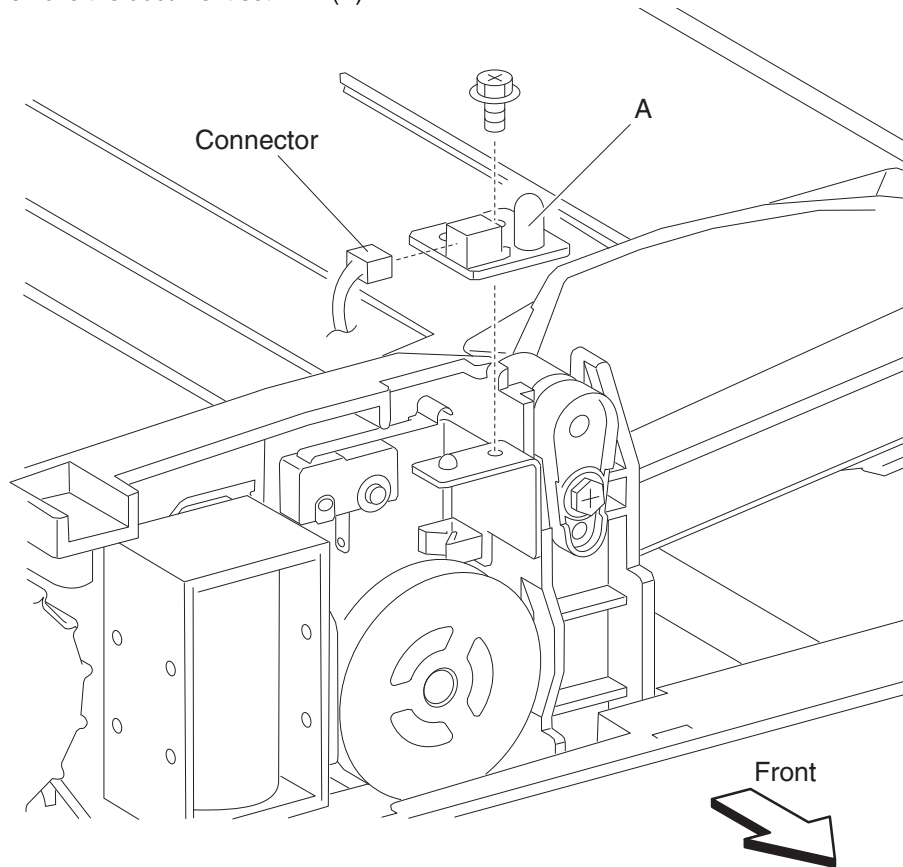
Next



Go Back

Document set LED removal

1. Open the ADF left cover assembly.
2. Remove the ADF front cover assembly. See **“ADF front cover assembly removal” on page 4-174.**
3. Disconnect the connector from the document set LED (A).
4. Remove the screw securing the document set LED (A).
5. Remove the document set LED (A).



Previous



Next



Go Back

Sheet through actuator removal

1. Open the ADF left cover assembly.
2. Remove the ADF left cover media guide. See **“ADF left cover media guide removal” on page 4-189.**
3. Remove the ADF feed/pick roll assembly. See **“ADF feed/pick roll assembly removal” on page 4-186.**
4. Remove the screw from the green ground wire (A).
5. Remove the screw securing the grounding plate (B).
6. Remove the grounding plate (B).
7. Remove the two screws securing the harness guide (C).
8. Remove the harness guide (C).
9. Remove the one screw securing the pick roll position motor assembly (D).
10. Remove the pick roll position motor assembly (D).
11. Remove the one screw securing the rear bracket (E).

Warning: Shims may be present under the rear bracket (E) and may possibly fall out. Note the locations of any shims.

12. Remove the rear bracket (E).
13. Gently pry the sheet through actuator (F) out of the ADF left cover assembly.

Previous



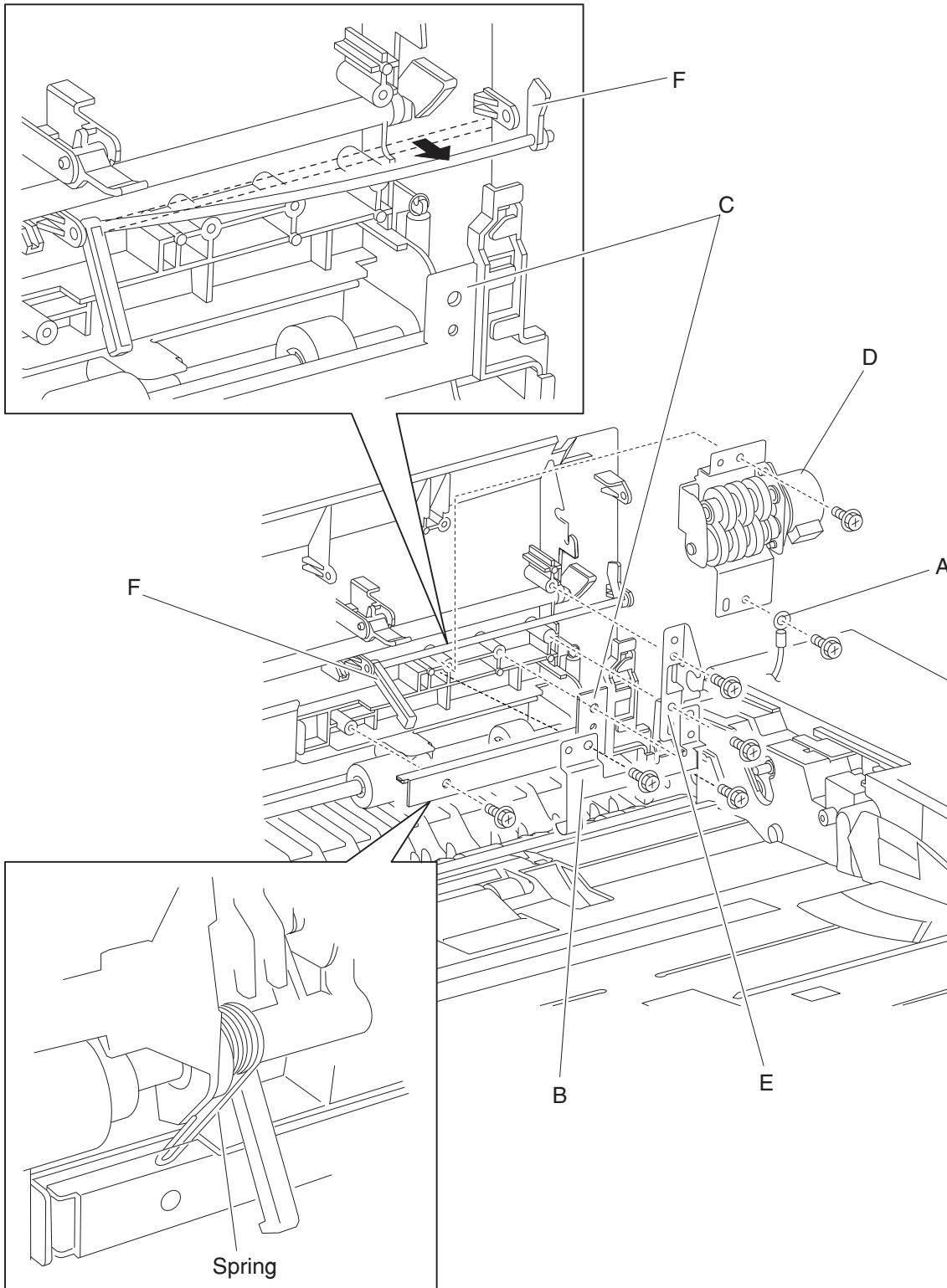
Next



Go Back

14. Remove the sheet through actuator (F).

Note: Before reinstalling the rear bracket (E), replace any shims that were originally present.



Previous



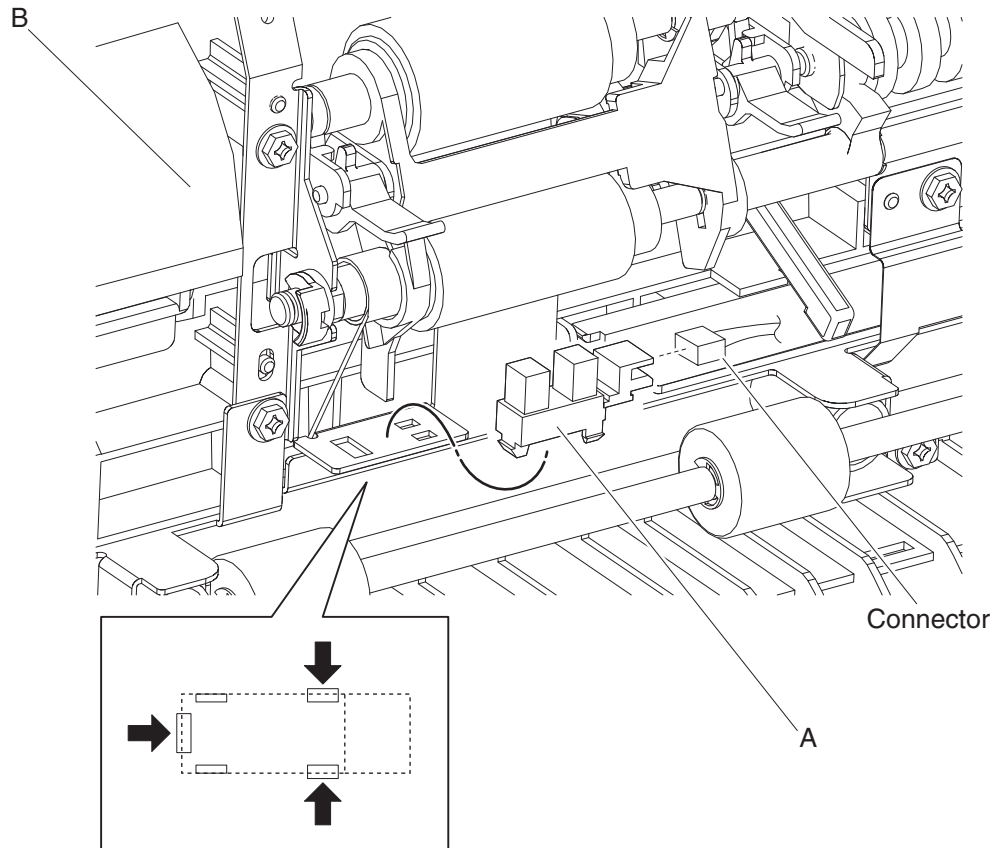
Next



Go Back

Sensor (pick roll position HP) removal

1. Open the ADF left cover assembly.
2. Remove the ADF left cover media guide. See **“ADF left cover media guide removal” on page 4-189.**
3. Disconnect the connector from the sensor (pick roll position HP) (A).
4. Release the hooks securing sensor (pick roll position HP) (A) to the ADF left cover assembly (B).
5. Remove the sensor (pick roll position HP) (A).



Previous



Next



Go Back

ADF feed/pick roll assembly removal

Warning: Do not touch the rubber surface of the feed roll or the pick roll.

1. Turn the machine off.

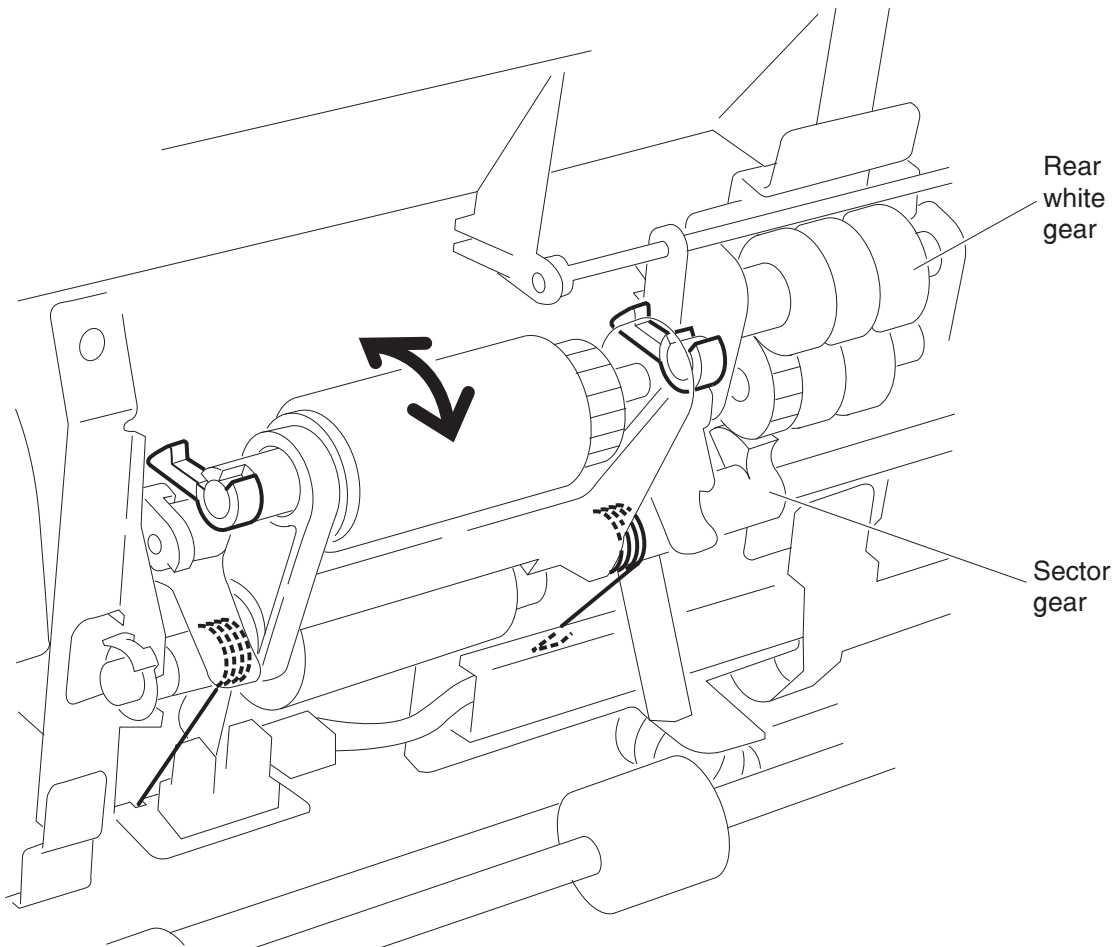
Warning: To reduce the chance of pick roll position errors and mechanical misalignments, ensure that the machine is turned off when replacing the ADF feed/pick roll assembly.

2. Open the ADF left cover assembly.
3. Remove the ADF left cover media guide. See **“ADF left cover media guide removal” on page 4-189.**
4. Release the two springs from the ADF left cover assembly
5. Remove the plastic clip (A).
6. Move the front bushing (B) frontward in the direction of the arrow to remove it from the front bracket (C).
7. Gently pull the front end of the ADF feed/pick roll assembly away from the ADF left cover assembly.
8. Move the rear bushing (D) rearward in the arrow direction to remove it from the rear bracket (E).
9. Gently remove the ADF feed/pick roll assembly (F) from the left cover assembly.

Note: Before reinstalling the ADF feed/pick roll assembly (F), ensure that the document set stops are positioned correctly and the two set gates are positioned as shown in the diagram or the ADF will malfunction and jam.

Note: Once the ADF feed/pick roll assembly is secured and the plastic clip is installed, rotate the rear most white gear of the pick roll position motor assembly until the pick roll has completely raised.

Note: Ensure that the two springs are positioned and installed properly or the ADF will malfunction and jam.



Previous



Next



Go Back

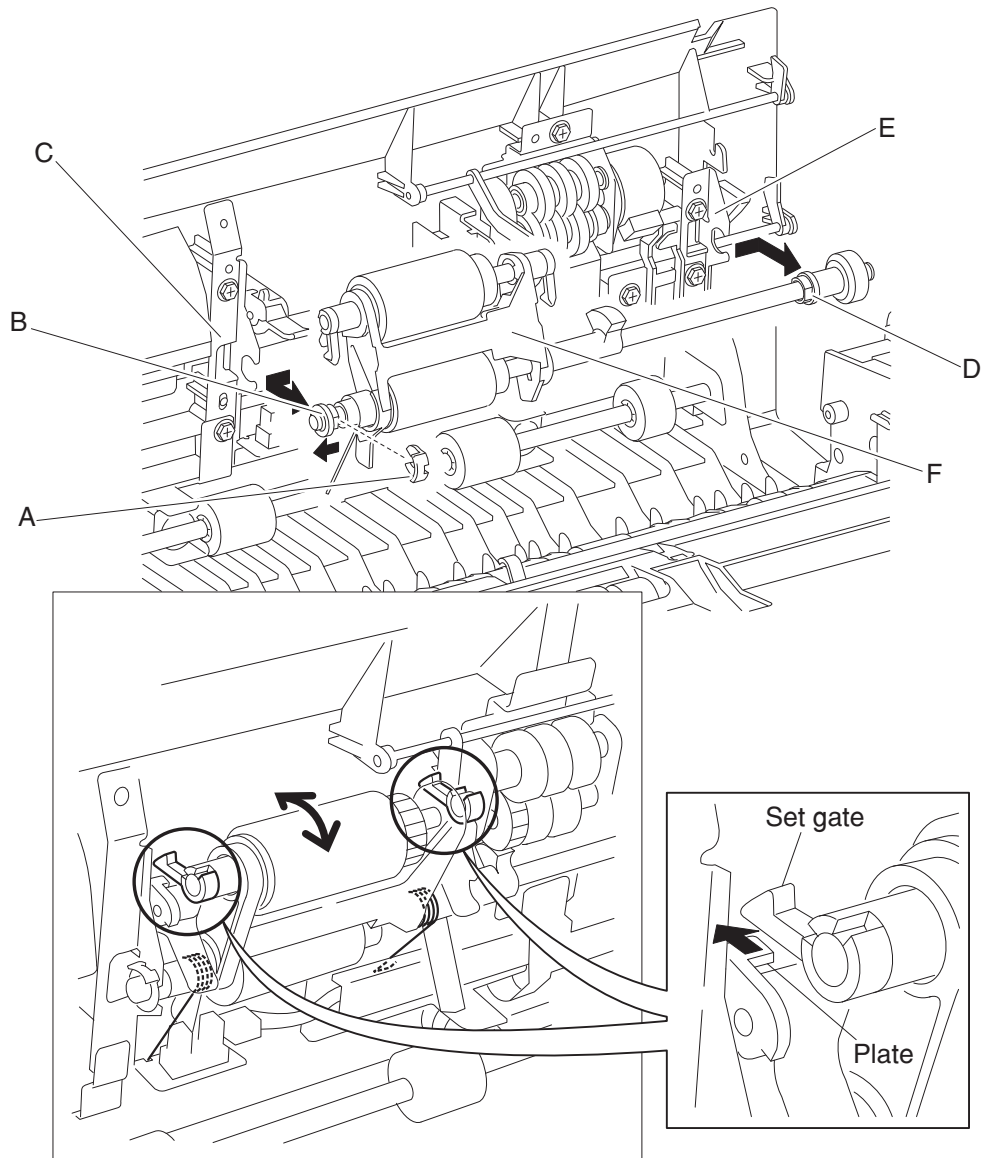
Previous



Next

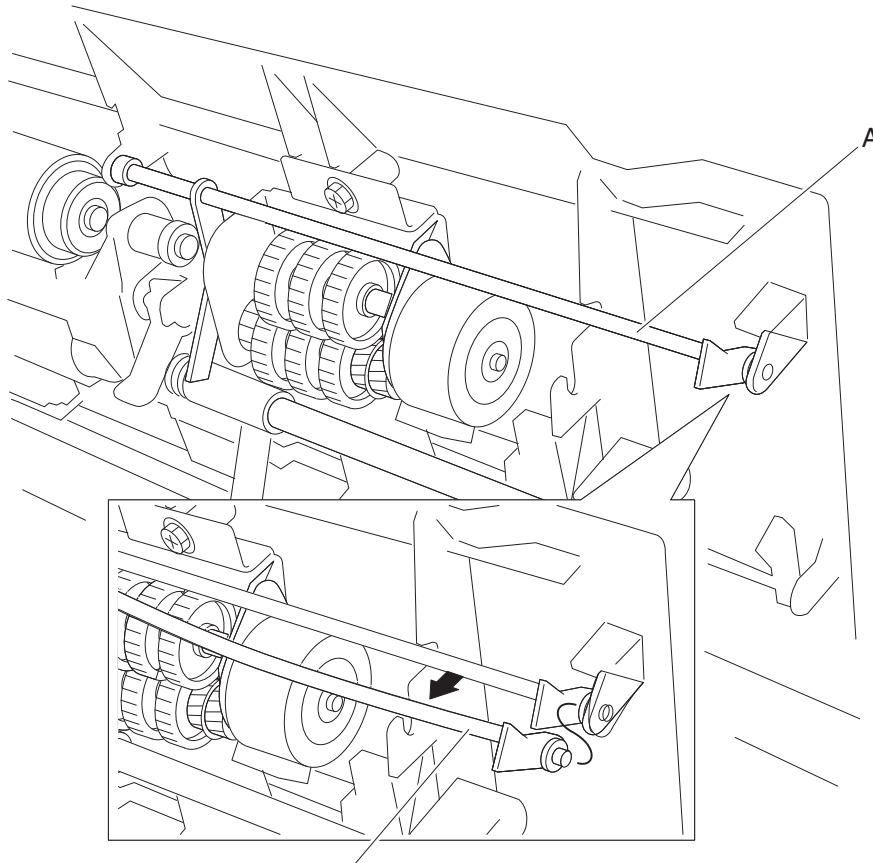


Go Back



Document set actuator removal

1. Open the ADF left cover assembly.
2. Remove the ADF left cover media guide. See **“ADF left cover media guide removal”** on page 4-189.
3. Gently pry the document set actuator (A) from the ADF left cover assembly.
4. Remove the document set actuator (A).



Previous



Next

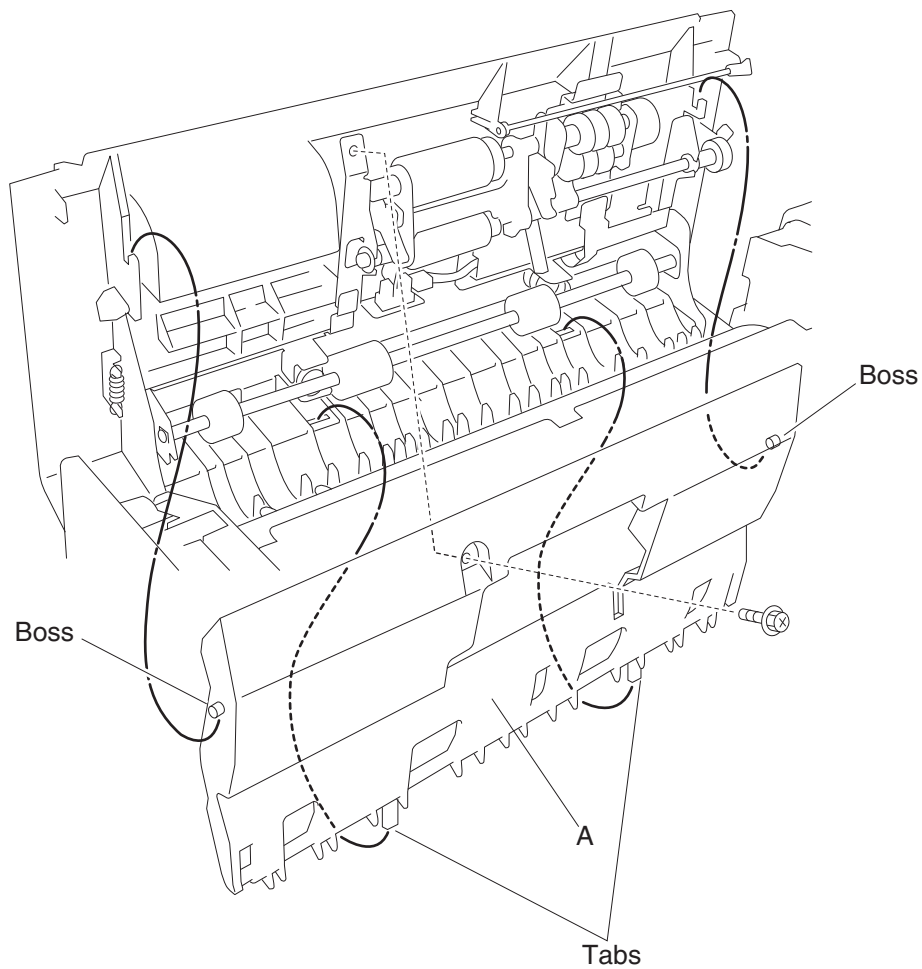


Go Back

ADF left cover media guide removal

1. Open the ADF left cover assembly.
2. Remove the screw securing the ADF left cover media guide (A).
3. Lift the ADF left cover media guide (A) upward, then remove the two bosses from the slot, and remove the two tabs from the holes.
4. Remove the ADF left cover media guide (A).

Note: Before reinstalling the ADF left cover media guide (A), ensure that the two bosses and two tabs are correctly installed, or jamming will occur.



Previous



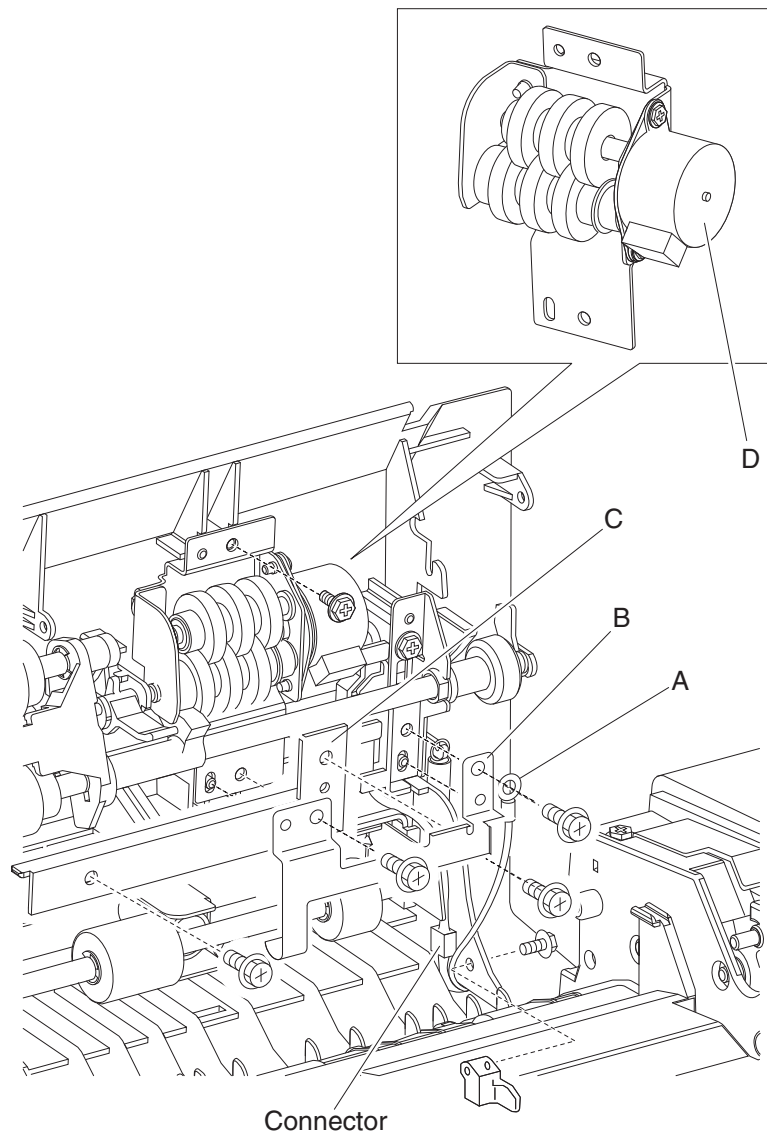
Next



Go Back

Pick roll position motor assembly removal

1. Open the ADF left cover assembly.
2. Remove the ADF left cover media guide. See **“ADF left cover media guide removal” on page 4-189.**
3. Remove the document set actuator. See **“” on page 4-187.**
4. Remove the screw from the green ground wire (A).
5. Remove the screw securing the grounding plate (B).
6. Remove the grounding plate (B).
7. Remove the two screws securing the harness guide (C).
8. Remove the harness guide (C).
9. Disconnect the connector from the pick roll position motor assembly (D).
10. Remove the one screw securing the pick roll position motor assembly (D).
11. Remove the pick roll position motor assembly (D).
12. Remove the harness from the harness guide (C).



Previous



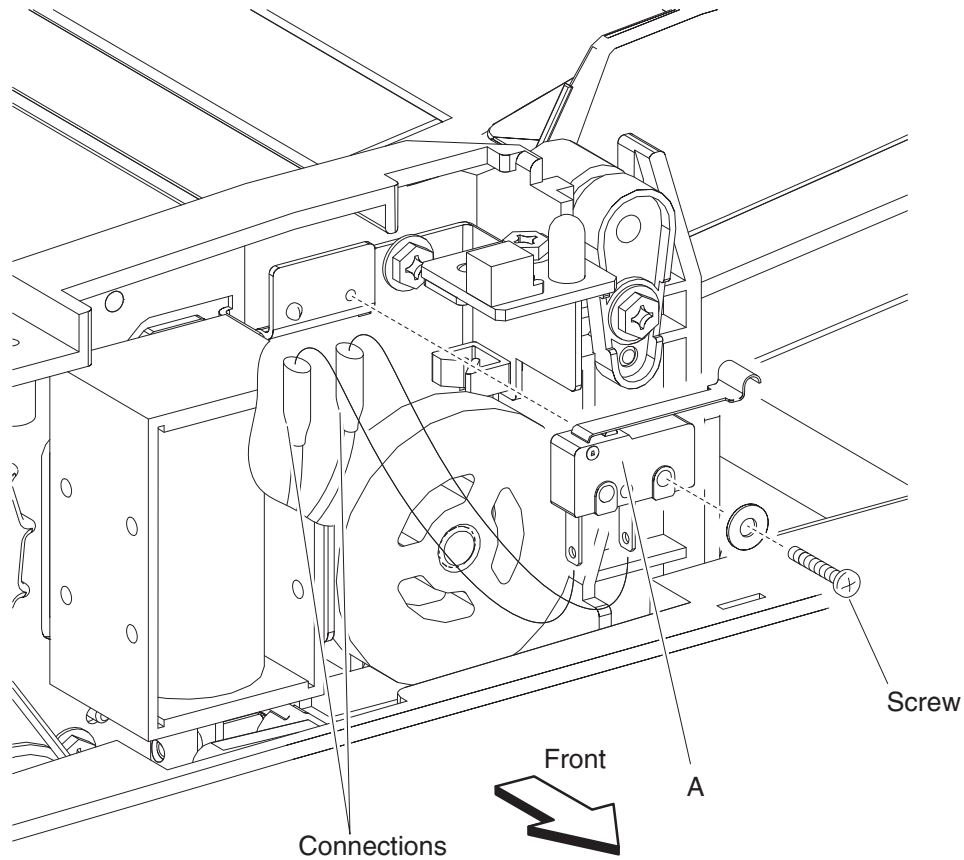
Next



Go Back

Switch (ADF left cover interlock) removal

1. Open the ADF left cover assembly.
2. Remove the ADF front cover assembly. See **“ADF front cover assembly removal” on page 4-174.**
3. Remove the screw and washer securing the switch (ADF left cover interlock) (A).
4. Disconnect the two connections to the switch (ADF left cover interlock) (A) with needle nose pliers.
5. Remove the switch (ADF left cover interlock).



Previous



Next

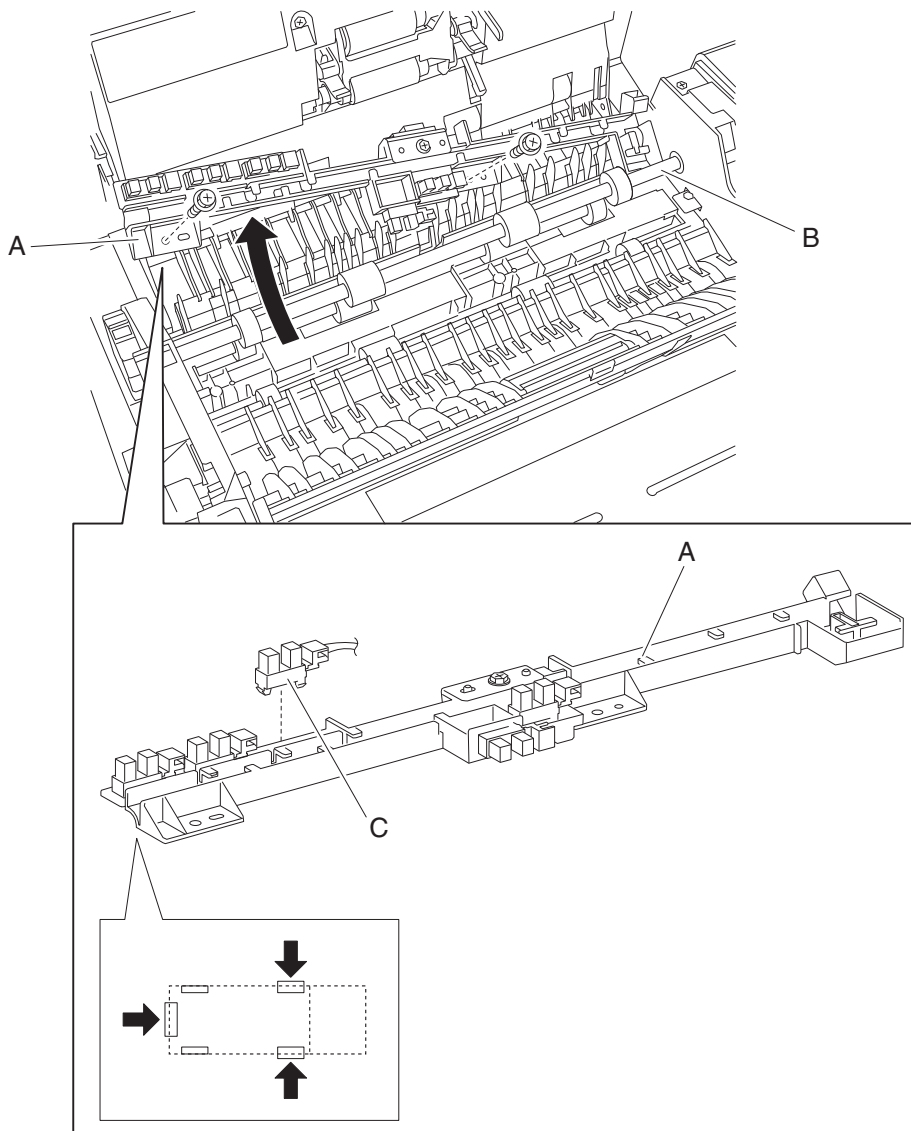


Go Back

Sensor (ADF width APS 1)

1. Open the ADF left cover assembly.
2. Lift the separation roll guide assembly to its uppermost position.
3. Remove the actuator/media guide assembly. See **“Actuator/media guide assembly removal” on page 4-198.**
4. Remove the two screws securing the sensor mount (A) to the ADF.
5. Slide the sensor mount (A) from the underside of the ADF transport roll (B), and move it to the position in which the required sensor is easily removed.
6. Release the hook securing the sensor (ADF width APS 1) (C) to the sensor mount (A).
7. Disconnect the connection from sensor (ADF width APS 1) (C).
8. Remove the sensor (ADF width APS 1) (C).

The APS, pre-registration, and inverter sensors are removed in the same manner. Release the hook, disconnect the connector, and remove the sensor.



Previous



Next

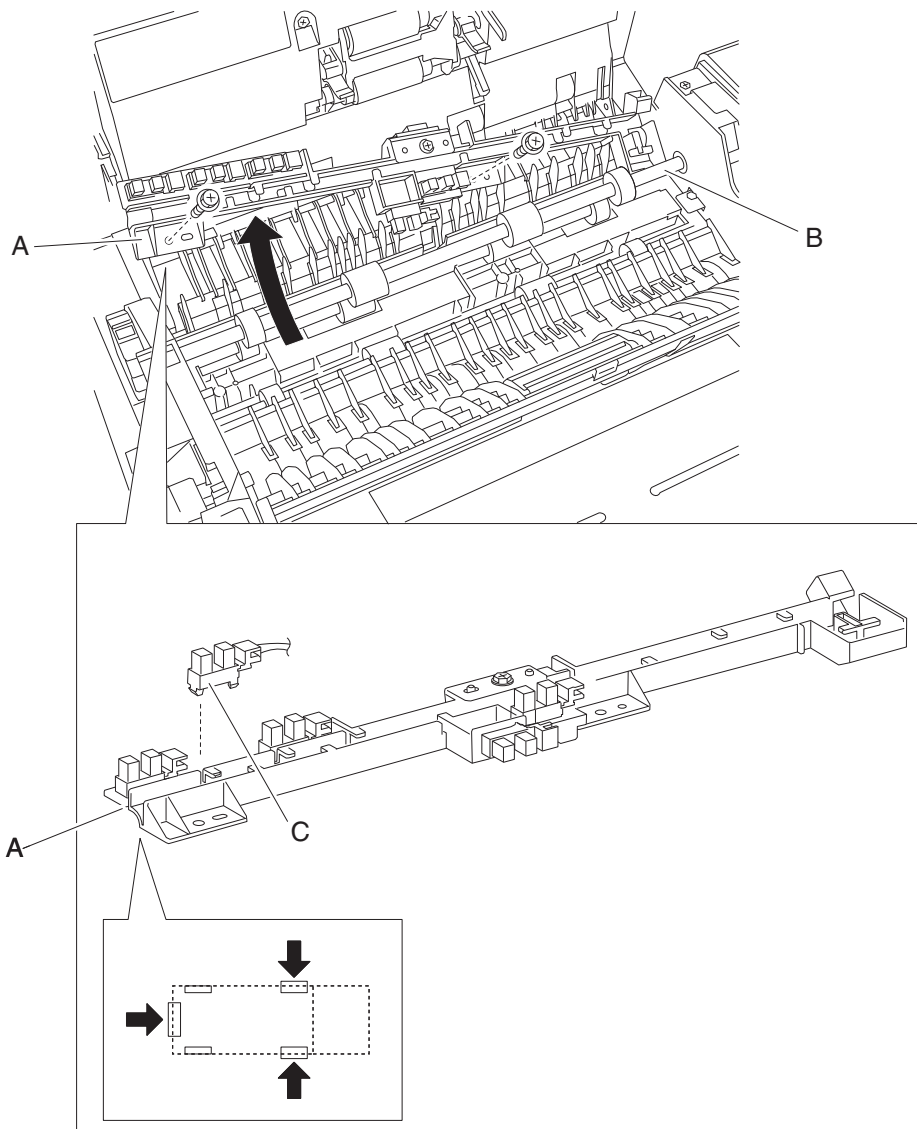


Go Back

Sensor (ADF width APS 2)

1. Open the ADF left cover assembly.
2. Lift the separation roll guide assembly to its uppermost position.
3. Remove the actuator/media guide assembly. See **“Actuator/media guide assembly removal” on page 4-198.**
4. Remove the two screws securing the sensor mount (A) to the ADF.
5. Slide the sensor mount (A) from the underside of the ADF transport roll (B), and move it to the position in which the required sensor is easily removed.
6. Release the hook securing the sensor (ADF width APS 2) (C) to the sensor mount (A).
7. Disconnect the connection from sensor (ADF width APS 2) (C).
8. Remove the sensor (ADF width APS 2) (C).

The APS, pre-registration, and inverter sensors are removed in the same manner. Release the hook, disconnect the connector, and remove the sensor.



Previous



Next

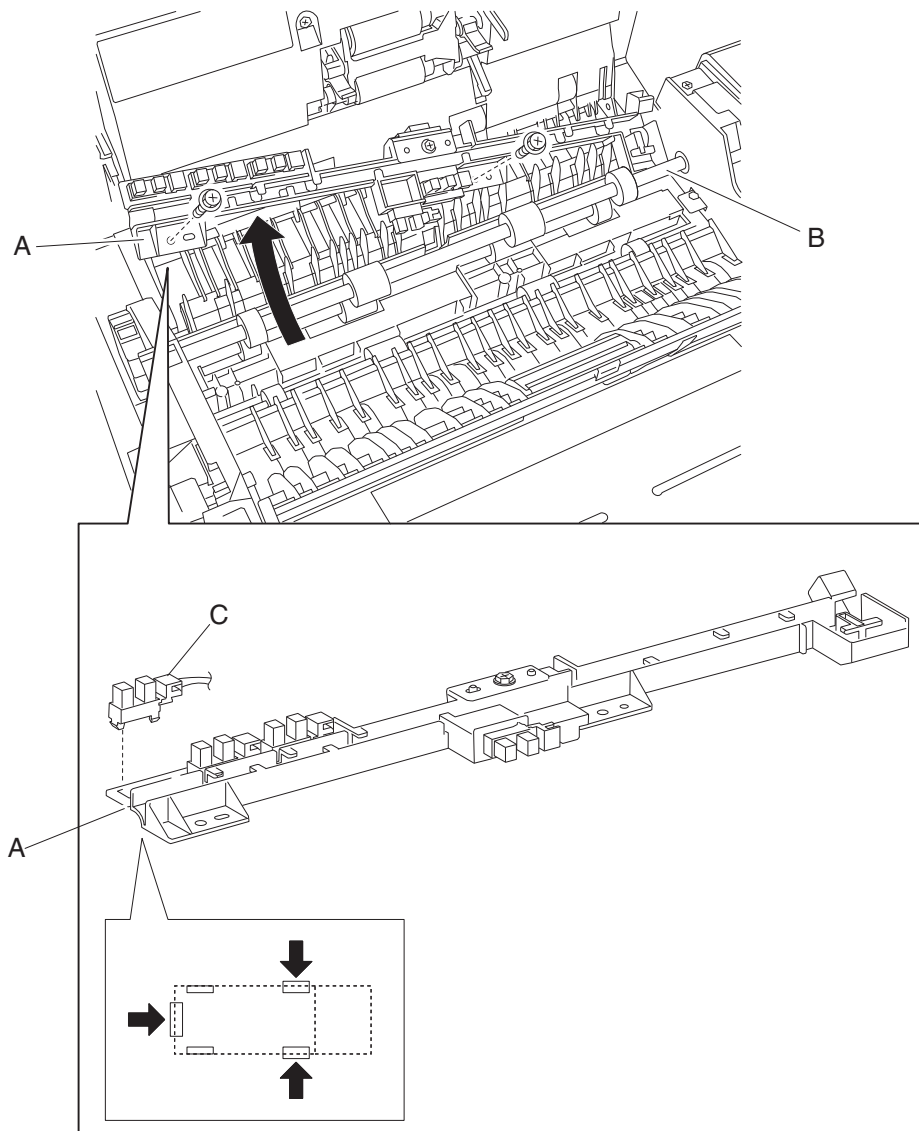


Go Back

Sensor (ADF width APS 3)

1. Open the ADF left cover assembly.
2. Lift the separation roll guide assembly to its uppermost position.
3. Remove the actuator/media guide assembly. See **“Actuator/media guide assembly removal” on page 4-198.**
4. Remove the two screws securing the sensor mount (A) to the ADF.
5. Slide the sensor mount (A) from the under of the ADF transport roll (B), and move it to the position in which the required sensor is easily removed.
6. Release the hook securing the sensor (ADF width APS 3) (C) to the sensor mount (A).
7. Disconnect the connection from sensor (ADF width APS 3) (C).
8. Remove the sensor (ADF width APS 3) (C).

The APS, pre-registration, and inverter sensors are removed in the same manner. Release the hook, disconnect the connector, and remove the sensor.



Previous



Next

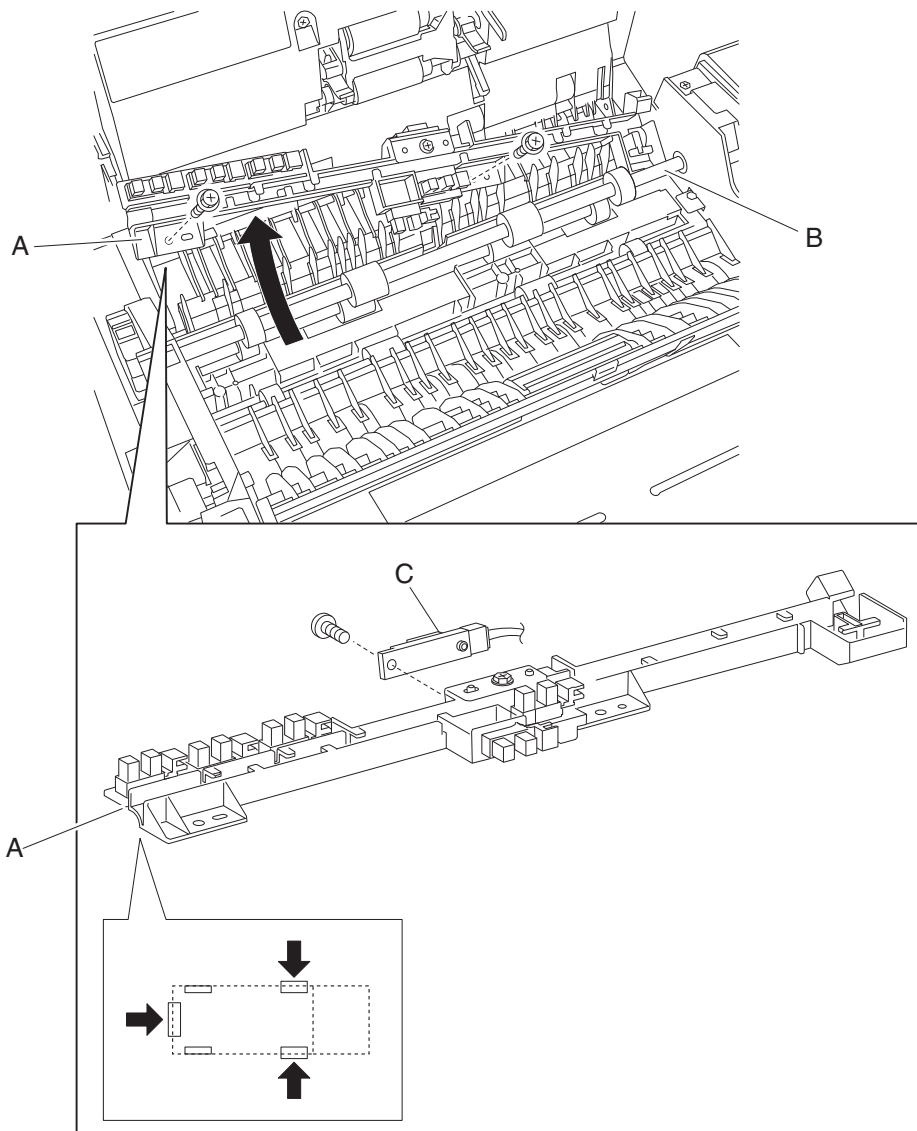


Go Back

Sensor (ADF registration)

1. Open the ADF left cover assembly.
2. Lift the separation roll guide assembly to its uppermost position.
3. Remove the actuator/media guide assembly. See **“Actuator/media guide assembly removal” on page 4-198.**
4. Remove the two screws securing the sensor mount (A) to the ADF.
5. Slide the sensor mount (A) from the underside of the ADF transport roll (B), and move it to the position in which the required sensor is easily removed.
6. Remove the screw securing the ADF registration sensor.
7. Disconnect the connector from the sensor (ADF registration).
8. Remove the sensor (ADF registration) (C).

The APS, pre-registration, and inverter sensors are removed in the same manner. Release the hook, disconnect the connector, and remove the sensor.



Previous



Next

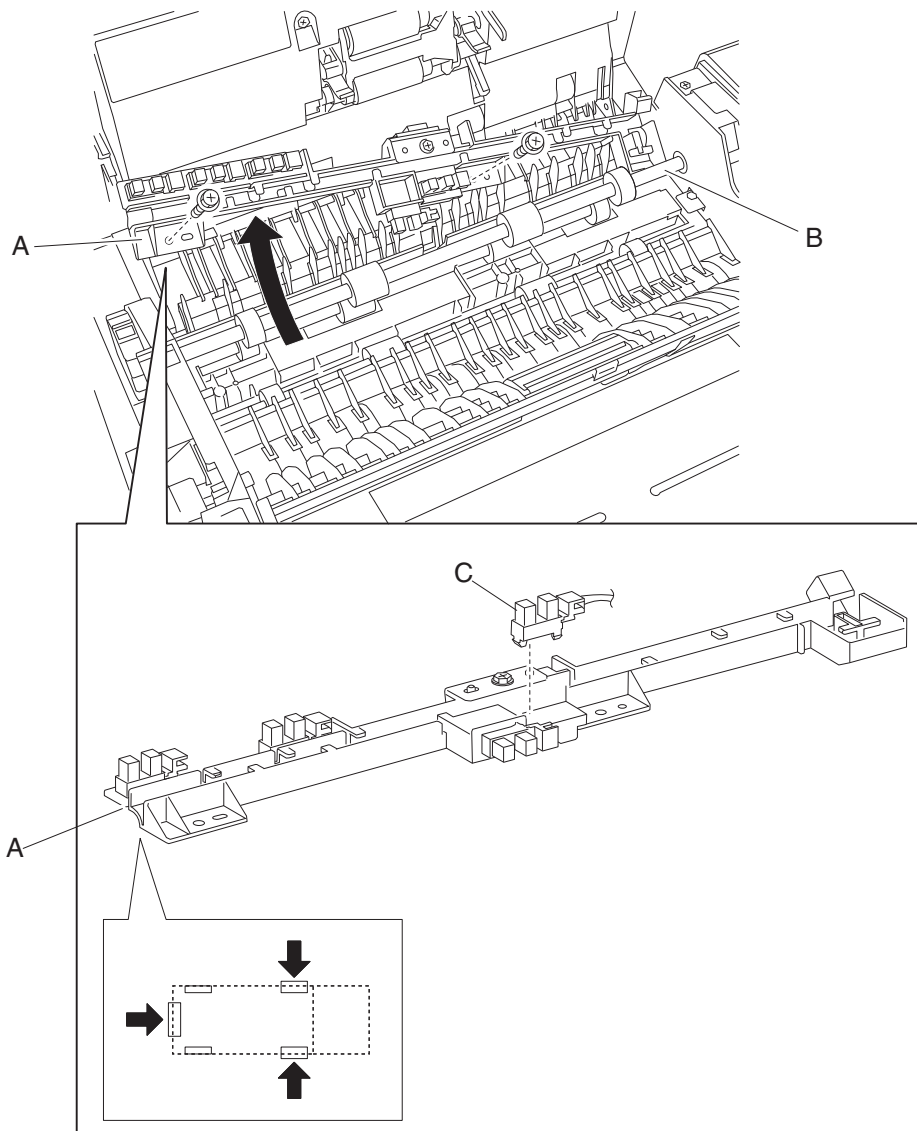


Go Back

Sensor (ADF pre-registration)

1. Open the ADF left cover assembly.
2. Lift the separation roll guide assembly to its uppermost position.
3. Remove the actuator/media guide assembly. See **“Actuator/media guide assembly removal” on page 4-198.**
4. Remove the two screws securing the sensor mount (A) to the ADF.
5. Slide the sensor mount (A) from the underside of the ADF transport roll (B), and move it to the position in which the required sensor is easily removed.
6. Release the hooks securing the sensor (ADF pre-registration) (C) to the sensor mount (A).
7. Disconnect the connector from the sensor (ADF pre-registration) (C).
8. Remove the sensor (ADF pre-registration) (C).

The APS, pre-registration, and inverter sensors are removed in the same manner. Release the hook, disconnect the connector, and remove the sensor.



Previous



Next

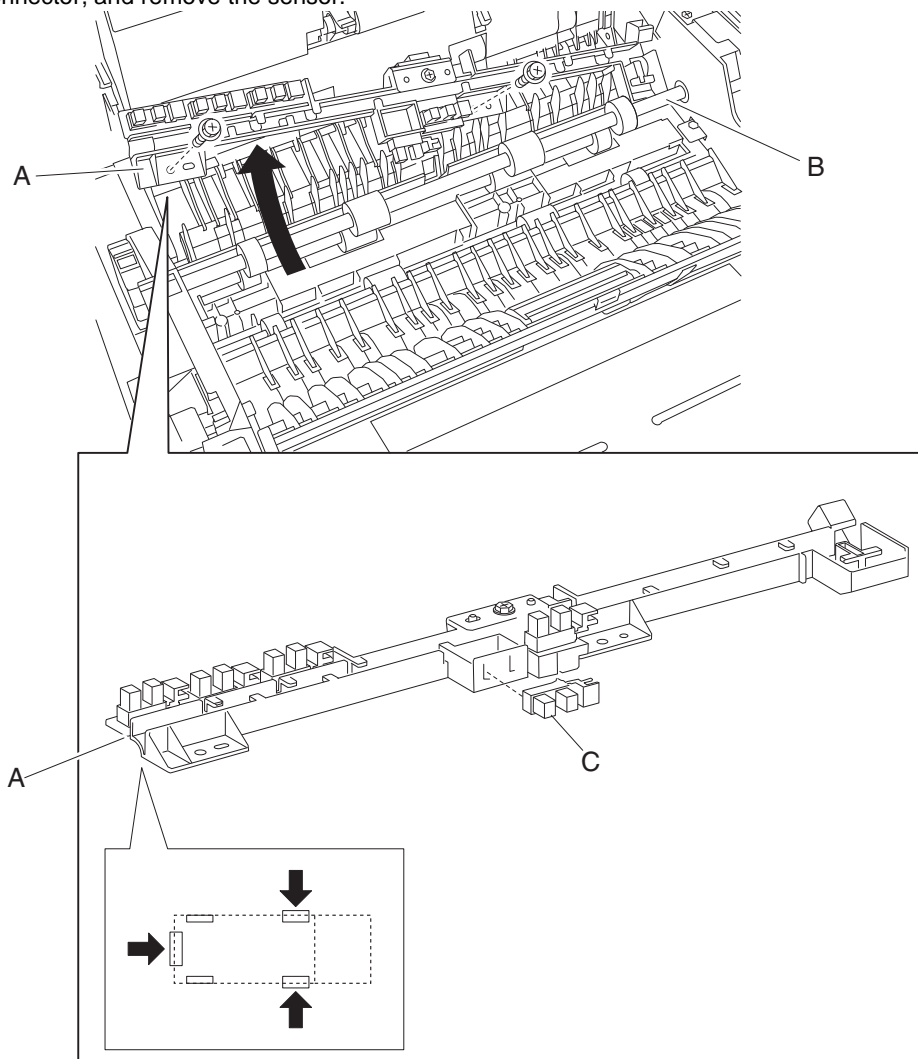


Go Back

Sensor (ADF inverter)

1. Open the ADF left cover assembly.
2. Lift the separation roll guide assembly to its uppermost position.
3. Remove the actuator/media guide assembly. See **“Actuator/media guide assembly removal” on page 4-198.**
4. Remove the two screws securing the sensor mount (A) to the ADF.
5. Slide the sensor mount (A) from the underside of the ADF transport roll (B), and move it to the position in which the required sensor is easily removed.
6. Release the hooks securing the sensor (ADF inverter) (C) to the sensor mount (A).
7. Disconnect the connector from the sensor (ADF inverter) (C).
8. Remove the sensor (ADF inverter).

The APS, pre-registration, and inverter sensors are removed in the same manner. Release the hook, disconnect the connector, and remove the sensor.



Previous



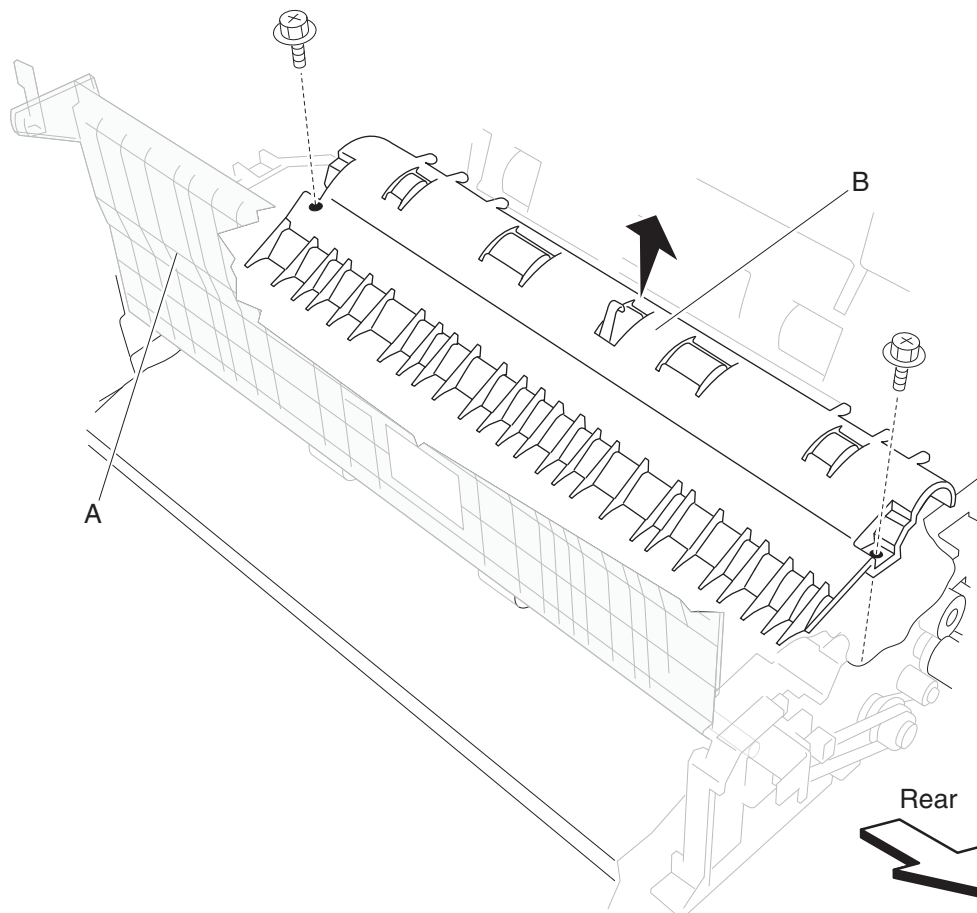
Next



Go Back

Actuator/media guide assembly removal

1. Open the ADF left cover assembly.
2. Lift the separation roll guide assembly (A) to its uppermost position.
3. Remove the two screws securing the actuator/media guide assembly (B) to the ADF.
4. Remove the actuator/media guide assembly (B).



Previous



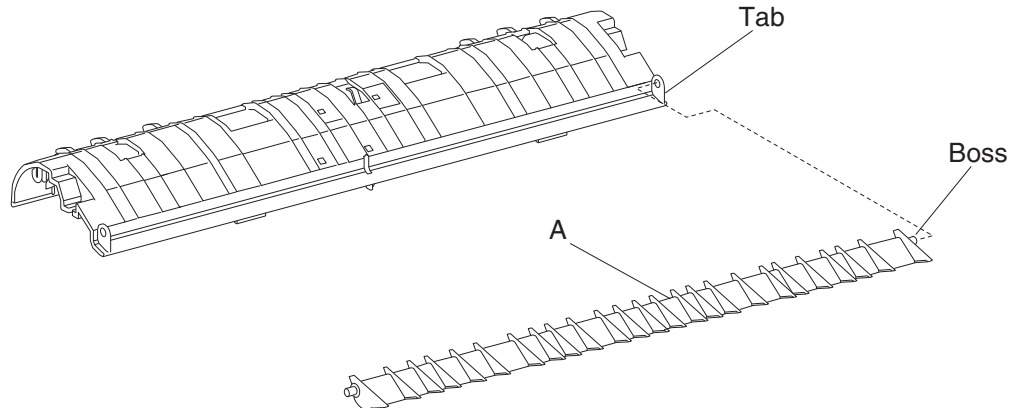
Next



Go Back

Inverter gate removal

1. Remove the actuator/media guide assembly. See **“Actuator/media guide assembly removal” on page 4-198.**
2. Flex the tab, and remove the boss from the hole.
3. Remove the inverter gate (A).



Previous



Next



Go Back

ADF registration roll assembly removal

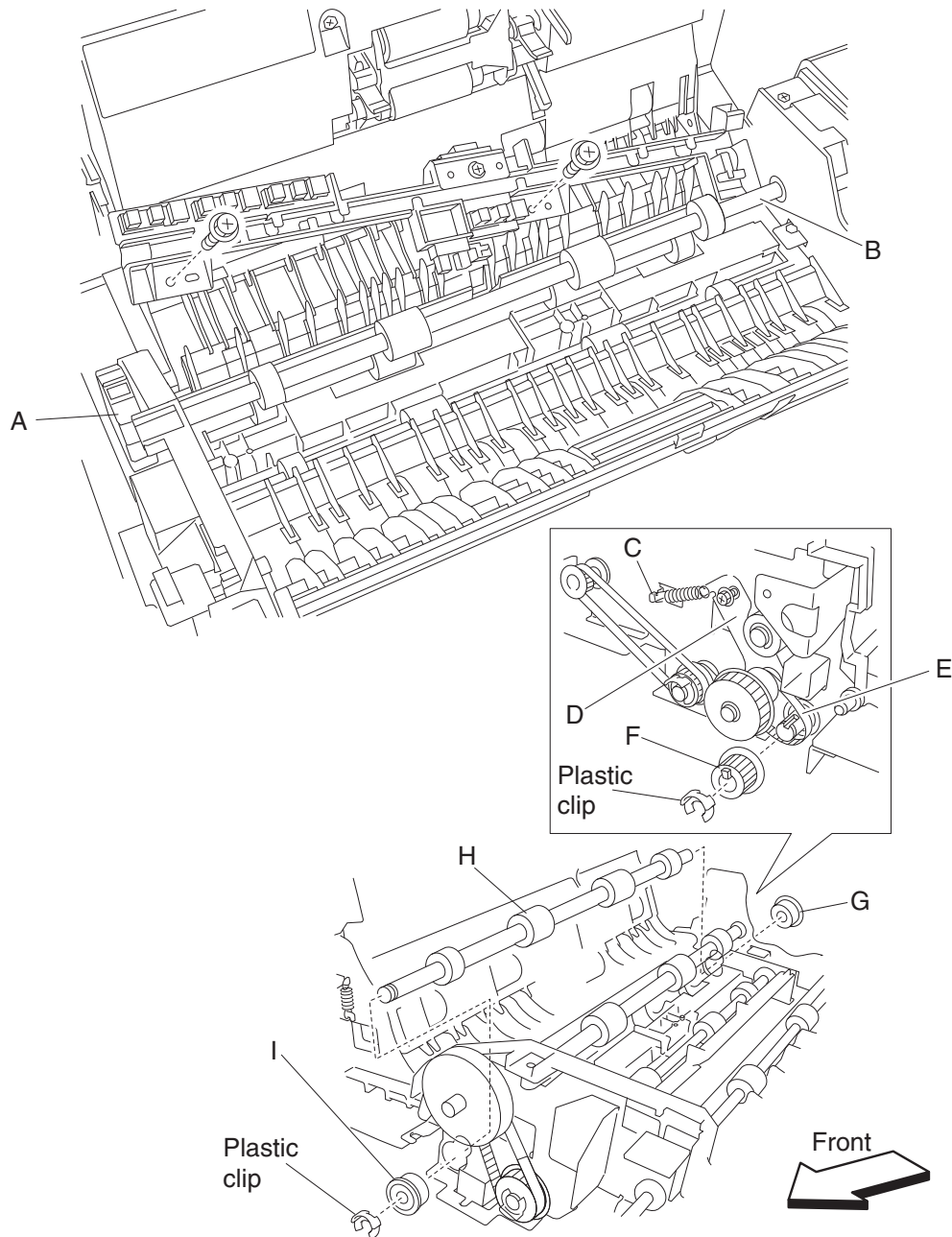
1. Remove the ADF unit assembly. See **“ADF unit assembly removal” on page 4-167.**
2. Open the ADF left cover assembly.
3. Remove the ADF front cover assembly. See **“ADF front cover assembly removal” on page 4-174.**
4. Remove the ADF rear cover. See **“ADF rear cover removal” on page 4-173.**
5. Remove the document tray assembly. See **“Document tray assembly removal” on page 4-172.**
6. Remove the ADF media feed assembly. See **“ADF media feed assembly removal” on page 4-170.**
7. Remove the ADF feed drive motor assembly. See **“ADF feed drive motor assembly removal” on page 4-180.**
8. Lift the separation roll guide assembly to its uppermost position.
9. Remove the actuator/media guide assembly. See **“Actuator/media guide assembly removal” on page 4-198.**
10. Remove the two screws securing the sensor mount (A) to the ADF.
11. Slide the sensor mount (A) from the underside of the ADF transport roll (B), and move it out of the way.
12. Remove the tension spring (C).
13. Loosen the screw securing the tension bracket (D), and loosen the registration secondary drive belt (E) tension.
14. Remove the plastic clip securing the registration roll drive pulley 28T (F).
15. Slide the registration secondary drive belt (E) from the registration roll drive pulley 28T (F).
16. Remove the ADF registration motor. See **“ADF registration motor removal” on page 4-209.**
17. Remove the registration roll drive pulley 28T (F).
18. Remove the bearing 8 mm (G) securing the ADF registration roll assembly (H) to the rear of the feed assembly.
19. Remove the plastic clip securing the bearing 8 mm (I) from the front side.

20. Remove the bearing 8 mm (I) securing the ADF registration roll assembly (H) to the front of the feed assembly.
21. Move the ADF registration roll assembly (H) frontward and upward.
22. Remove the ADF registration roll assembly (H).

Warning: Do not touch the rubber surface of the ADF registration roll assembly (H).

Note: Before reinstalling the registration secondary drive belt (E), ensure that it is routed properly.

Note: Loosen and then retighten the two screws that set the belt tension after tension spring (C) is attached.



Previous



Next



Go Back

ADF feed-out roll assembly removal

1. Remove the ADF unit assembly. See **“ADF unit assembly removal” on page 4-167.**
2. Open the ADF left cover assembly.
3. Remove the ADF front cover assembly. See **“ADF front cover assembly removal” on page 4-174.**
4. Remove the ADF rear cover. See **“ADF rear cover removal” on page 4-173.**
5. Remove the document tray assembly. See **“Document tray assembly removal” on page 4-172.**
6. Remove the ADF registration motor. See **“ADF registration motor removal” on page 4-209.**
7. Remove the ADF media feed assembly. See **“ADF media feed assembly removal” on page 4-170.**
8. Remove the ADF feed drive motor assembly. See **“ADF feed drive motor assembly removal” on page 4-180.**
9. Lift the separation roll guide assembly to its uppermost position.
10. Remove the actuator/media guide assembly. See **“Actuator/media guide assembly removal” on page 4-198.**
11. Loosen the screw securing the tension bracket (A) and loosen the registration secondary belt (B) tension.
12. Remove the tension spring (B).
13. Loosen the screw securing the small tension bracket (C).
14. Remove the exit roll drive belt (D).
15. Remove the registration secondary drive belt (E).
16. Remove the plastic clip securing the exit/feed-out roll drive pulley 25/28T (F).
17. Remove the exit/feed-out roll drive pulley 25/28T (F).
18. Remove the bearing 8 mm (G) securing the ADF feed-out roll assembly (H) to the rear of the feed assembly.
19. Remove the plastic clip securing the manual feed drive pulley (I).
20. Remove the manual feed drive pulley (I).
21. Remove the manual feed drive belt (J).
22. Remove the bearing 8 mm (K) securing the feed-out roll assembly to the front of the feed assembly.

Previous



Next

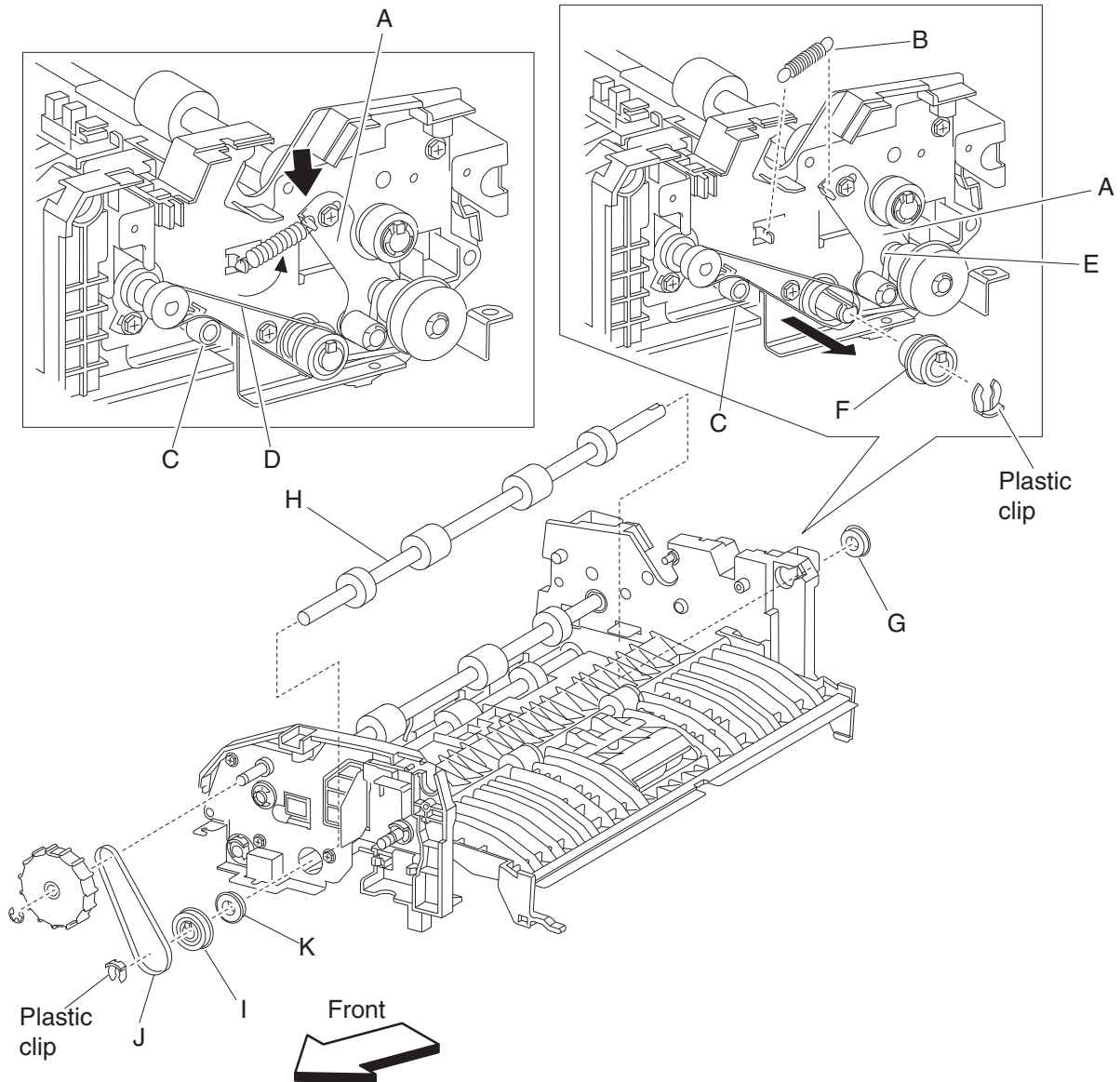


Go Back

23. Move the ADF feed-out roll assembly (H) rearward and upward.

24. Remove the ADF feed-out roll assembly (H).

Warning: Do not touch the rubber surface of the ADF exit roll assembly (G).



Previous



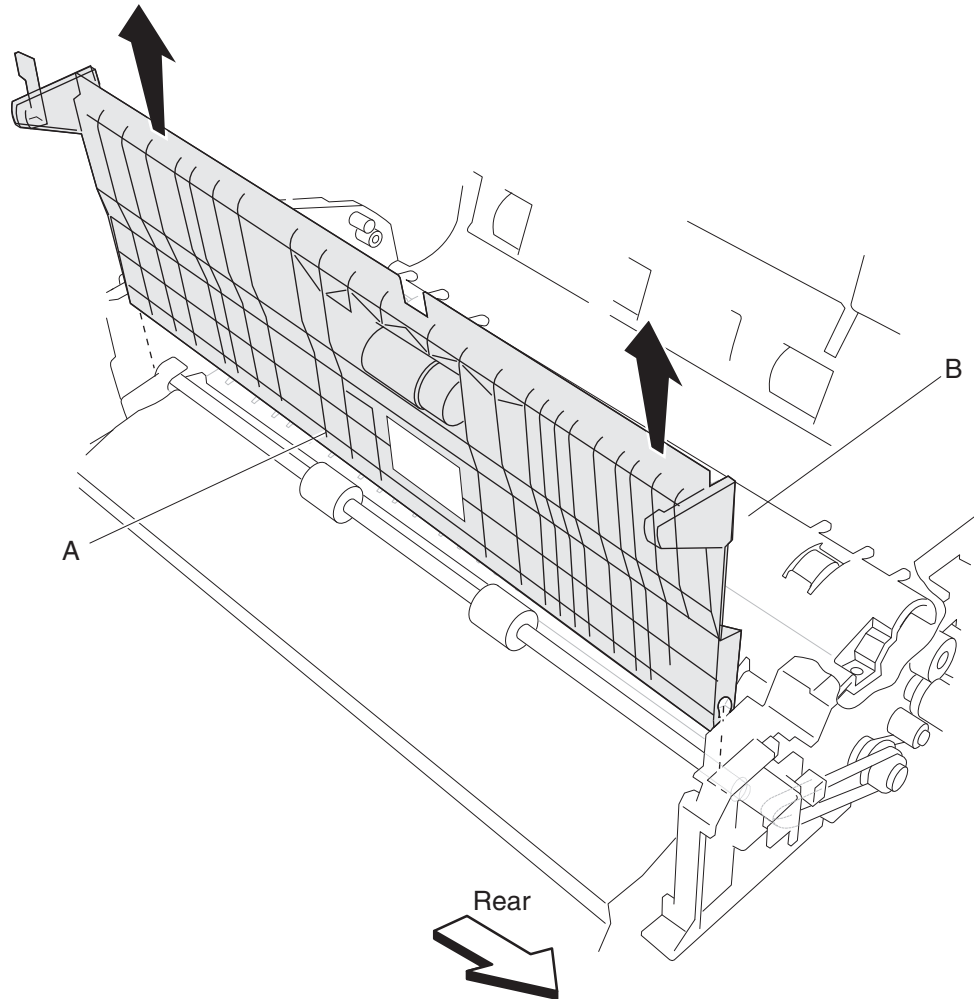
Next



Go Back

ADF separation roll guide assembly

1. Open the ADF left cover assembly.
2. Lift the separation roll guide assembly (A) to its uppermost position.
3. Lift and remove the separation roll guide assembly (A).
Note: Extra upward force is required to remove the separation roll guide assembly.



Previous



Next



Go Back

ADF exit roll assembly removal

1. Open the ADF left cover assembly.
2. Remove the ADF front cover assembly. See **“ADF front cover assembly removal” on page 4-174.**
3. Remove the ADF rear cover. See **“ADF rear cover removal” on page 4-173.**
4. Remove the ADF feed drive motor assembly. See **“ADF feed drive motor assembly removal” on page 4-180.**
5. Remove the ADF separation roll guide assembly. See **“ADF separation roll guide assembly” on page 4-203.**
6. Loosen the screw securing the small tension bracket (A) and loosen the exit roll drive belt tension (B).
7. Loosen the screw securing the tension bracket (C), and loosen the registration secondary belt (D) tension.
8. Remove the registration secondary drive belt (D).
9. Remove the tension spring (E).
10. Remove the exit roll drive belt (B).
11. Loosen the set screw securing the damper (F).
12. Remove the damper (F).
13. Remove the plastic clip securing the bushing 6 mm (G) on the front of the feed assembly.
14. Remove the bushing 6 mm (G).
15. Move the ADF exit roll assembly (H) to the rear.
16. Release the hook securing the exit roll drive pulley 20T (I) to the ADF exit roll assembly (H).
17. Remove the exit roll drive pulley 20T (I).
18. Remove the retainer spring (J).
19. Remove the bushing 6 mm (K).
20. Move the ADF exit roll assembly (H) to the rear and then up.
Note: Ensure that the small tension bracket (A) is applying adequate tension to the exit roll drive belt (B).

Previous

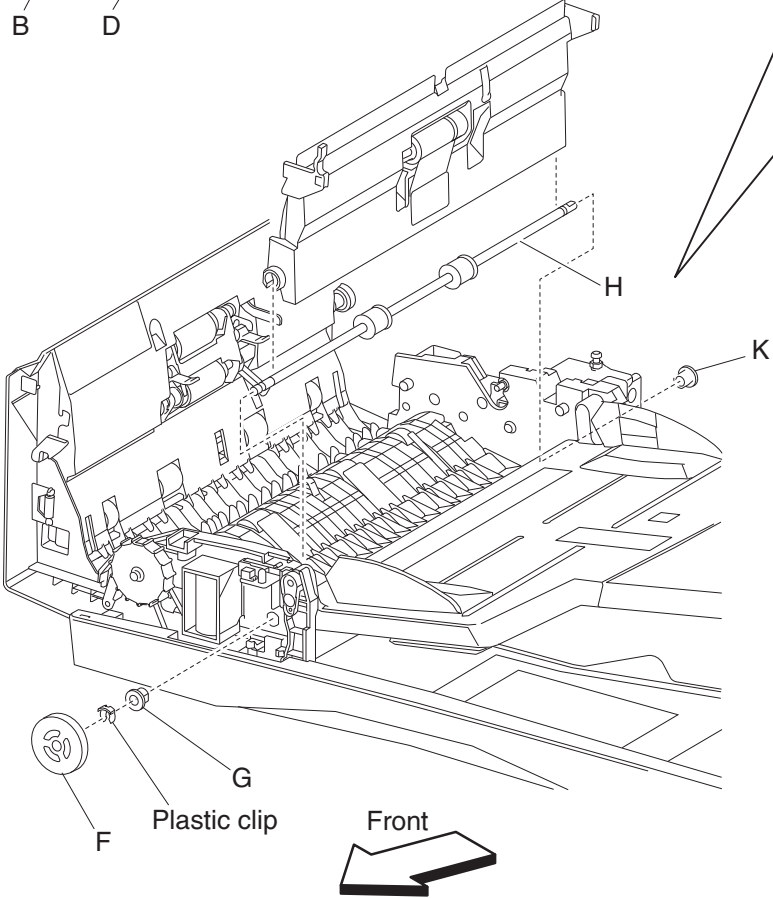
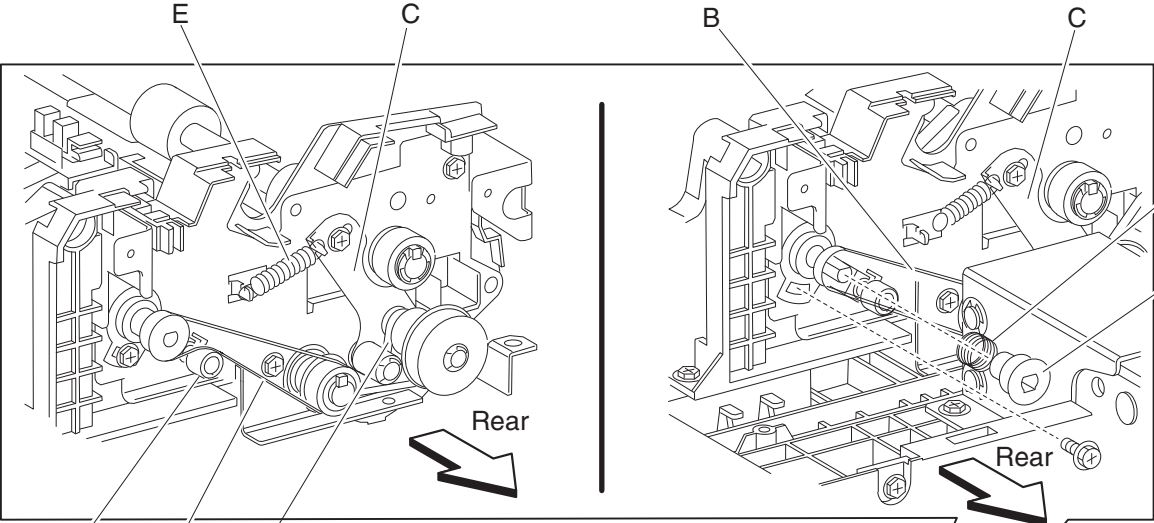


Next



Go Back

21. Remove the ADF exit roll assembly (H).



Previous



Next

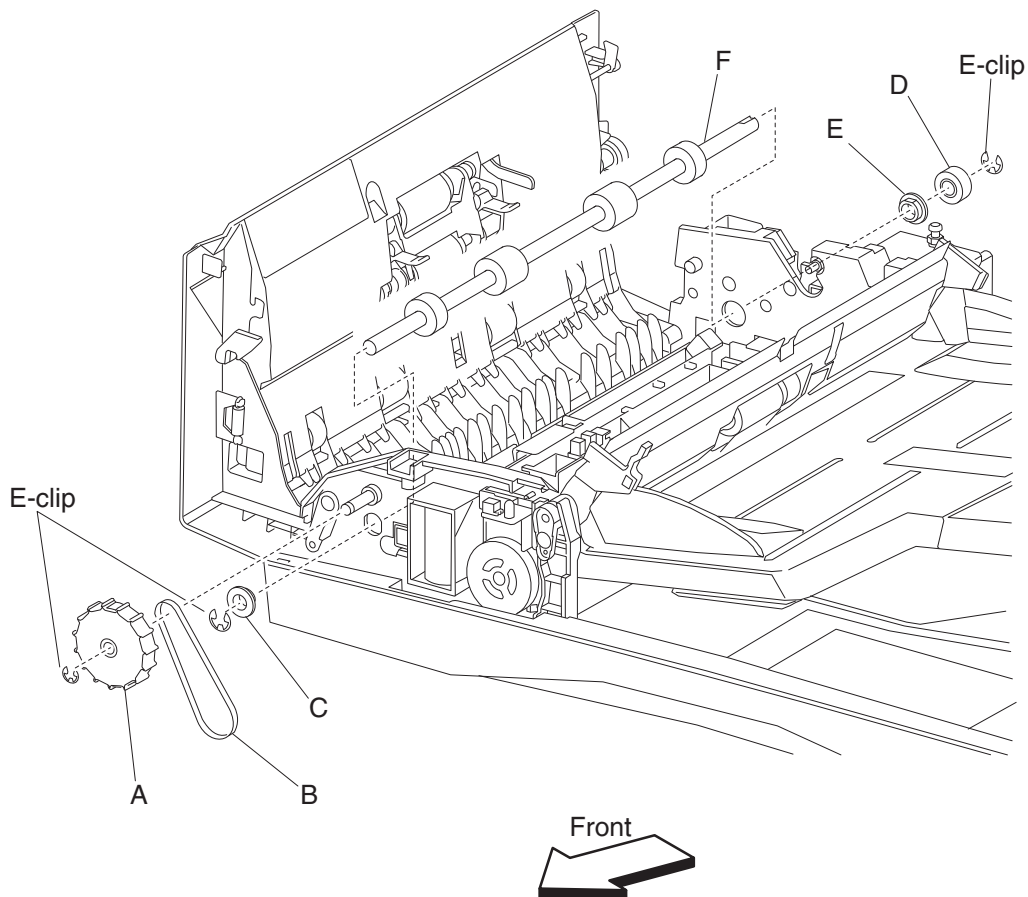


Go Back

ADF transport roll assembly removal

1. Open the ADF left cover assembly.
2. Remove the ADF front cover assembly. See **“ADF front cover assembly removal” on page 4-174.**
3. Remove the ADF rear cover. See **“ADF rear cover removal” on page 4-173.**
4. Remove the ADF feed drive motor assembly. See **“ADF feed drive motor assembly removal” on page 4-180.**
5. Remove the actuator/media guide assembly. See **“Actuator/media guide assembly removal” on page 4-198.**
6. Remove the e-clip securing the manual feed drive wheel (A).
7. Remove the manual feed drive wheel (A).
8. Remove the manual feed drive belt (B).
9. Remove the e-clip securing the bushing 8 mm (C).
10. Remove the bushing 8 mm (C).
11. Remove the e-clip securing the transport roll drive gear 20T (D).
12. Remove the transport roll drive gear 20T (D).
13. Remove the bushing 8 mm (E).
14. Move the ADF transport roll assembly (F) rearward and upward.
15. Remove the ADF transport roll assembly (F).

Warning: Do not touch the rubber surface of the ADF transport roll assembly (F).



Previous



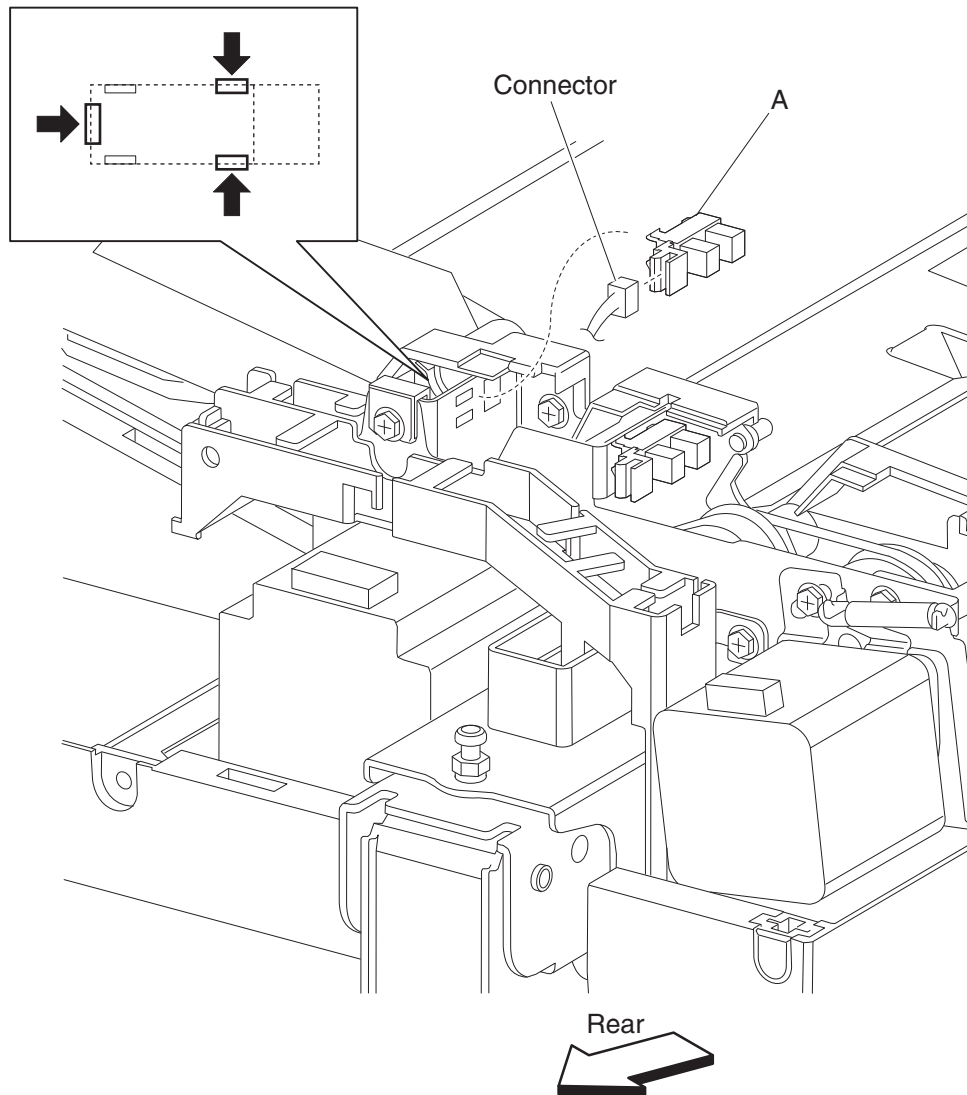
Next



Go Back

Sensor (document set) removal

1. Open the ADF left cover assembly.
2. Lift the document tray assembly.
3. Remove the ADF rear cover. See **“ADF rear cover removal” on page 4-173.**
4. Disconnect the connector from the sensor (document set) (A).
5. Release the hooks securing the sensor (document set) (A).
6. Remove the sensor (document set) (A).



Previous



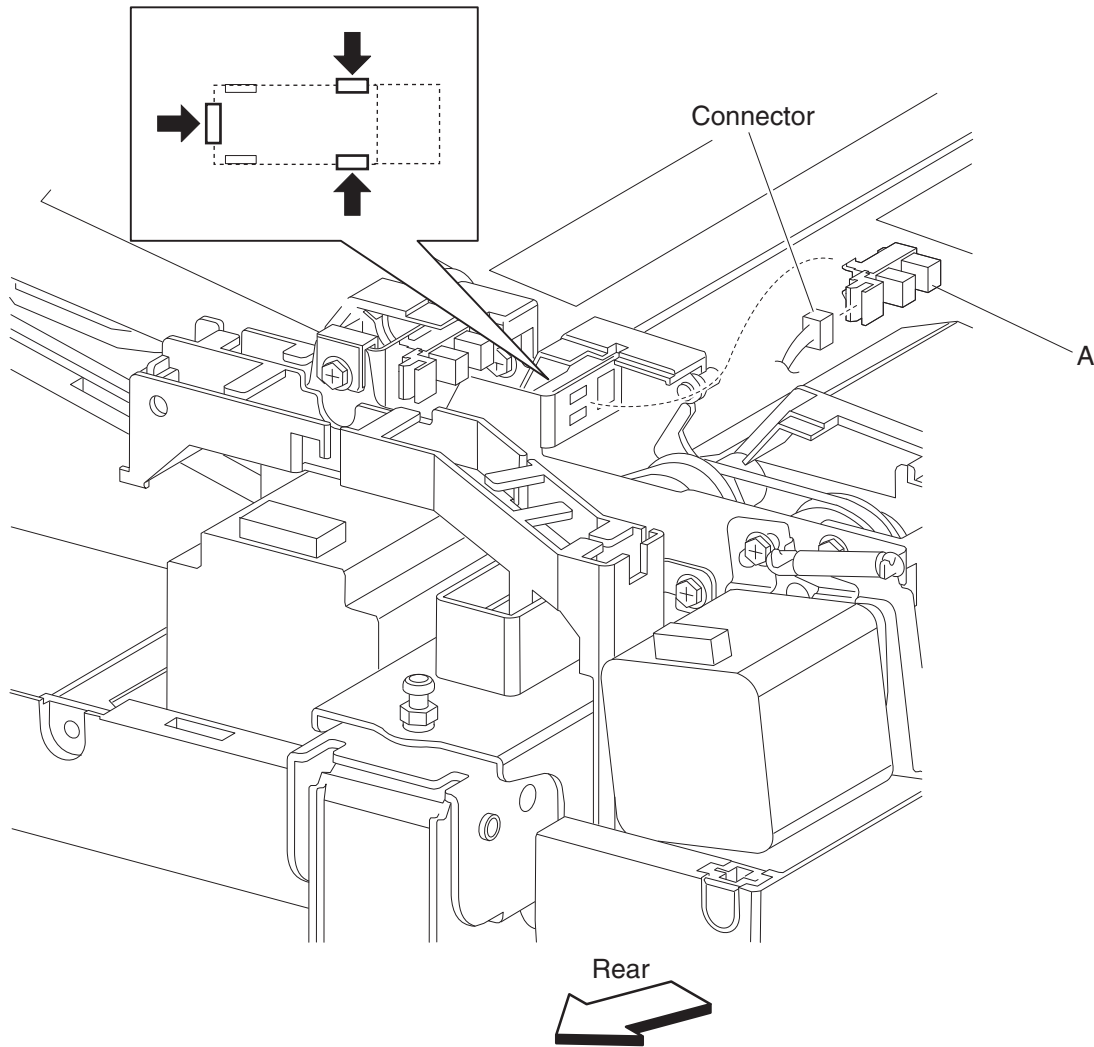
Next



Go Back

Sensor (sheet through) removal

1. Open the ADF left cover assembly.
2. Lift the document tray assembly.
3. Remove the ADF rear cover. See **“ADF rear cover removal”** on page 4-173.
4. Disconnect the connector from the sensor (sheet through) (A).
5. Release the hooks securing the sensor (sheet through) (A).
6. Remove the sensor (sheet through) (A).



Previous



Next



Go Back

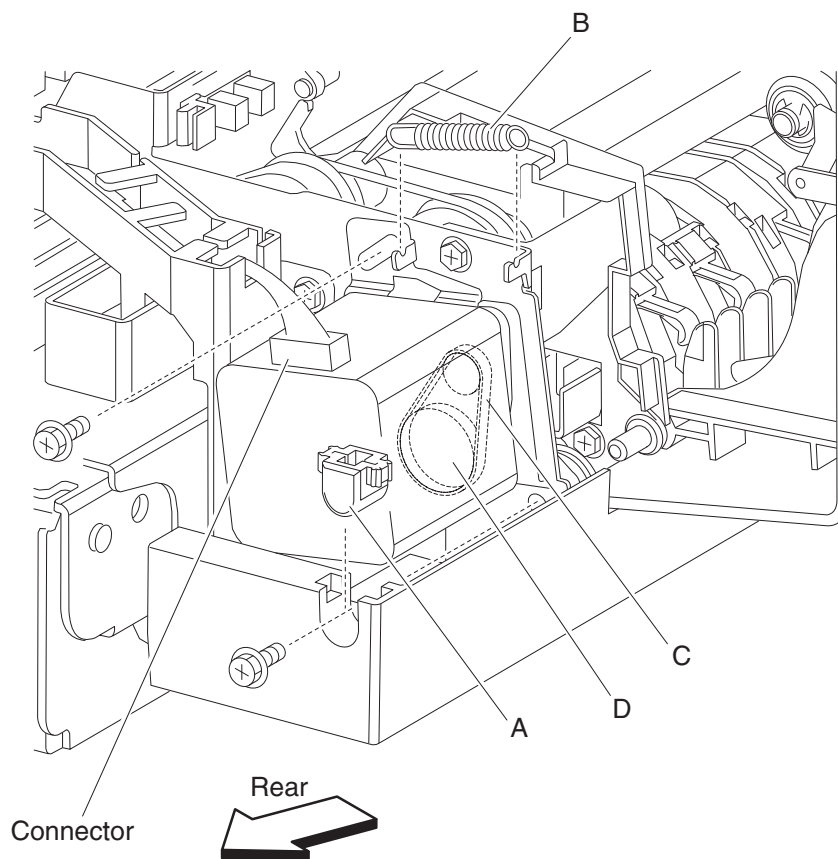
ADF registration motor removal

1. Open the ADF left cover assembly.
2. Lift the document tray assembly.
3. Remove the ADF rear cover. See **“ADF rear cover removal” on page 4-173.**
4. Remove the access cap (A).
5. Disconnect the connector from the ADF registration motor (A).
6. Remove the tension spring (B) from the ADF registration motor (A).
7. Remove the two screws securing the ADF registration motor (A).
8. Remove the registration main drive belt (C).

Note: Before reinstalling the ADF registration motor (A), place the registration main drive belt (C) on the registration main drive pulley 21/54T (D).

Note: Ensure that the registration main drive belt (C) is properly routed.

Note: To correctly set the registration main drive belt (C) tension, install the ADF registration motor (A) and the tension spring (B) before completely tightening the two screws.



Previous



Next

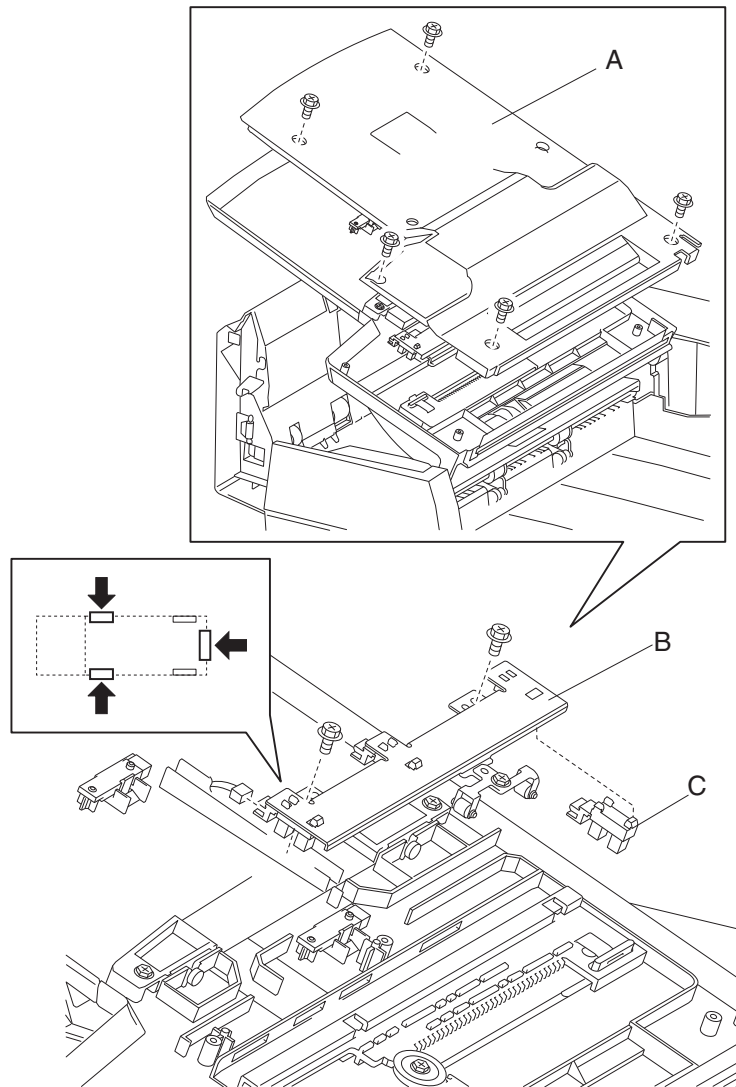


Go Back

Sensor (document tray width 1) removal

1. Open the ADF left cover assembly.
2. Lift the document tray assembly.
3. Remove the five screws securing the cover (A).
4. Remove the cover (A).
5. Remove the two screws securing the bracket (B).
6. Remove the bracket (B).
7. Remove the connector from the sensor (document tray width 1) (C).
8. Release the hooks securing the sensor (document tray width 1) (C).
9. Remove the sensor (document tray width 1) (C).

Note: The sensor (document tray width 1), sensor (document tray width 2), or the sensor (document tray width 3) are all identical.



Previous



Next

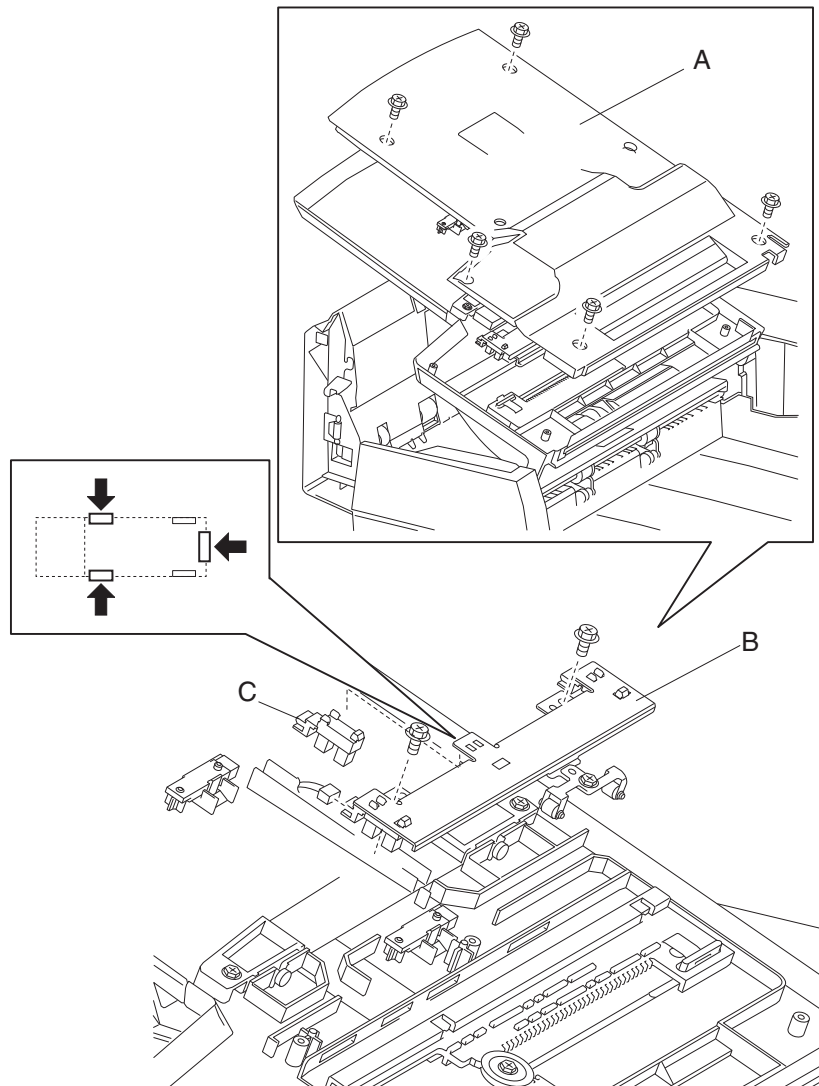


Go Back

Sensor (document tray width 2) removal

1. Open the ADF left cover assembly.
2. Lift the document tray assembly.
3. Remove the five screws securing the cover (A).
4. Remove the cover (A).
5. Remove the two screws securing the bracket (B).
6. Remove the bracket (B).
7. Remove the connector from the sensor (document tray width 2) (C).
8. Release the hooks securing the sensor (document tray width 2) (C).
9. Remove the sensor (document tray width 2) (C).

Note: The sensor (document tray width 1), sensor (document tray width 2), or the sensor (document tray width 3) are all identical.



Previous



Next

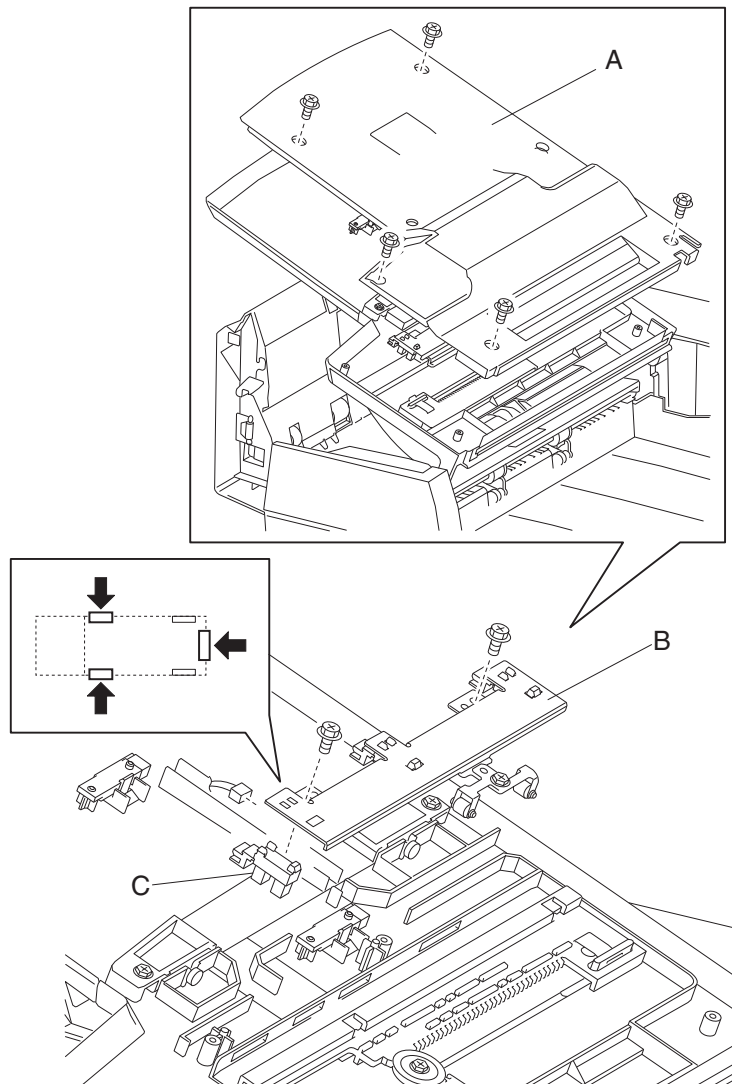


Go Back

Sensor (document tray width 3) removal

1. Open the ADF left cover assembly.
2. Lift the document tray assembly.
3. Remove the five screws securing the cover (A).
4. Remove the cover (A).
5. Remove the two screws securing the bracket (B).
6. Remove the bracket (B).
7. Remove the connector from the sensor (document tray width 3) (C).
8. Release the hooks securing the sensor (document tray width 3) (C).
9. Remove the sensor (document tray width 3) (C).

Note: The sensor (document tray width 1), sensor (document tray width 2), or the sensor (document tray width 3) are all identical.



Previous



Next

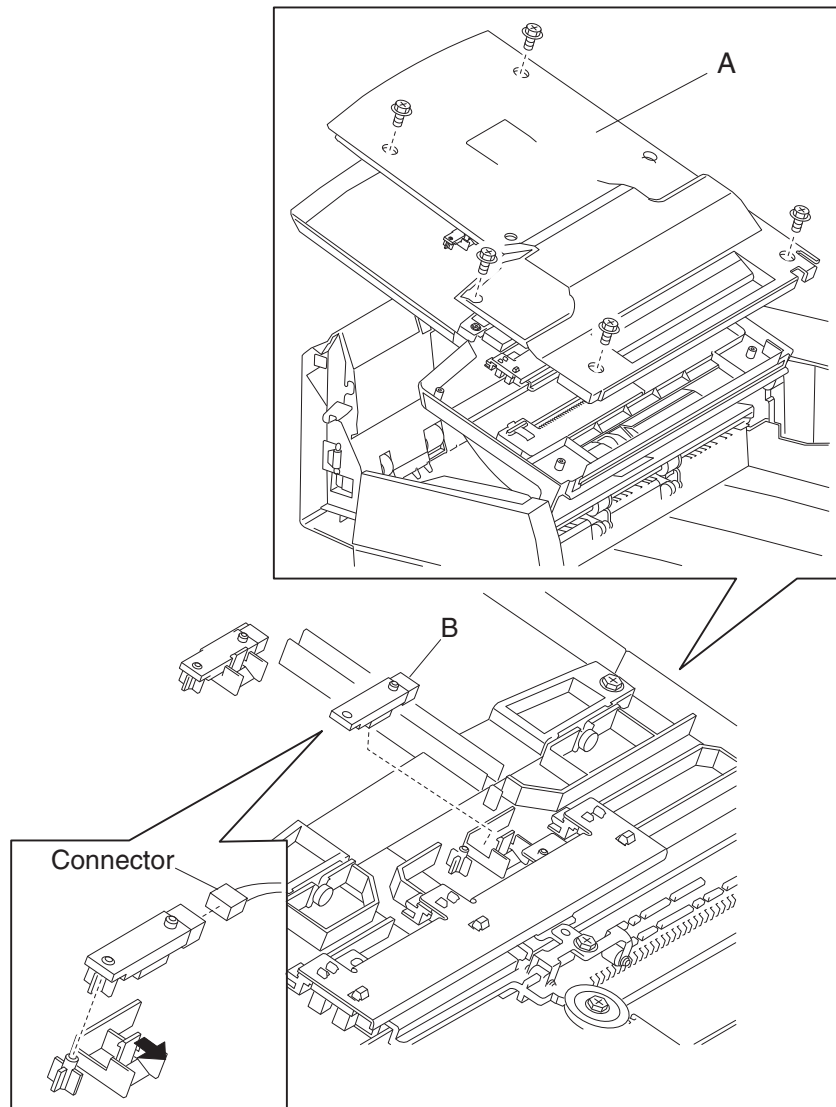


Go Back

Sensor (document tray length 1) removal

1. Open the ADF left cover assembly.
2. Lift the document tray assembly.
3. Remove the five screws securing the cover (A).
4. Remove the cover (A).
5. Remove the connector from the sensor (document tray length 1) (B).
6. Release the hook securing the sensor (document tray length 1) (B).
7. Remove the sensor (document tray length 1) (B).

Note: The sensor (document tray length 1) and the sensor (document tray length 2) are identical.



Previous



Next

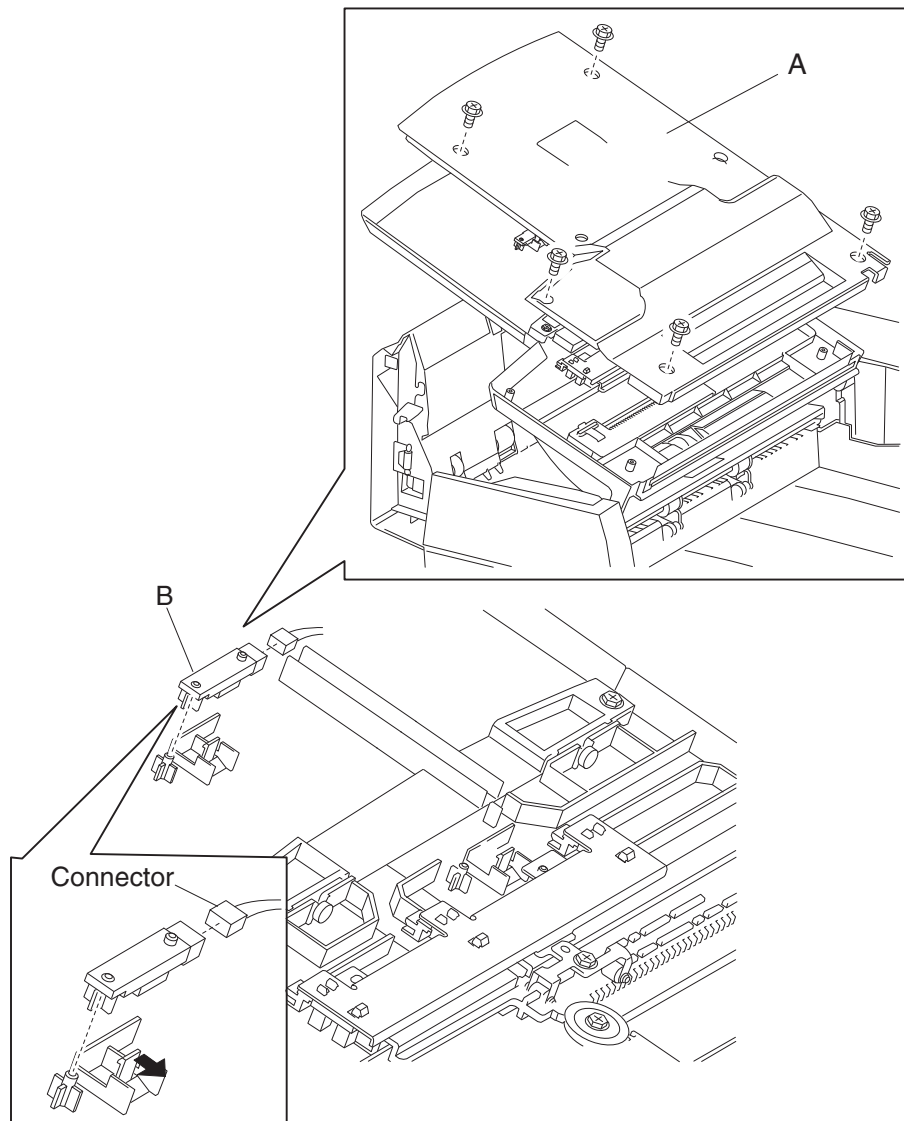


Go Back

Sensor (document tray length 2) removal

1. Open the ADF left cover assembly.
2. Lift the document tray assembly.
3. Remove the five screws securing the cover (A).
4. Remove the cover (A).
5. Remove the connector from the sensor (document tray length 2) (B).
6. Release the hook securing the sensor (document tray length 2) (B).
7. Remove the sensor (document tray length 2) (B).

Note: The sensor (document tray length 1) and the sensor (document tray length 2) are identical.



Previous

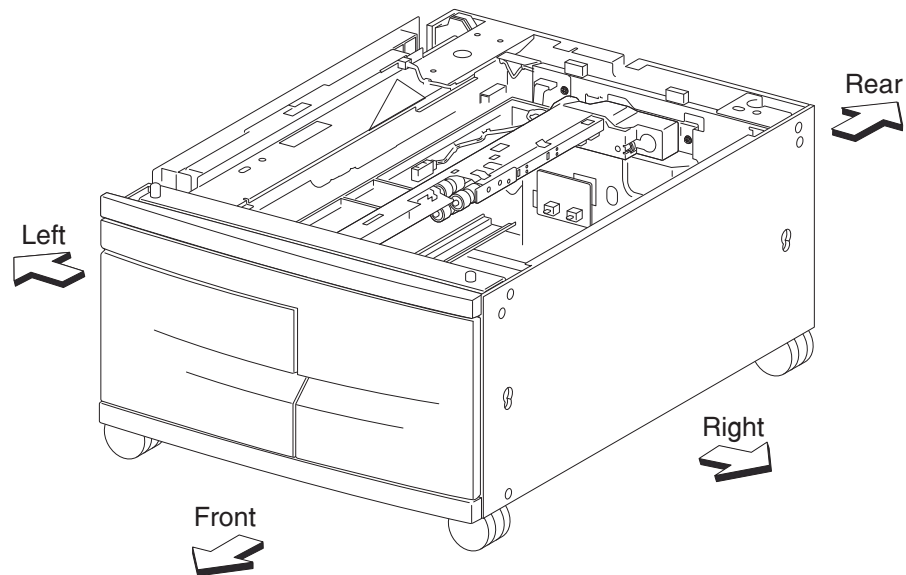


Next



Go Back

2000-sheet dual input (TTM) removals



Previous



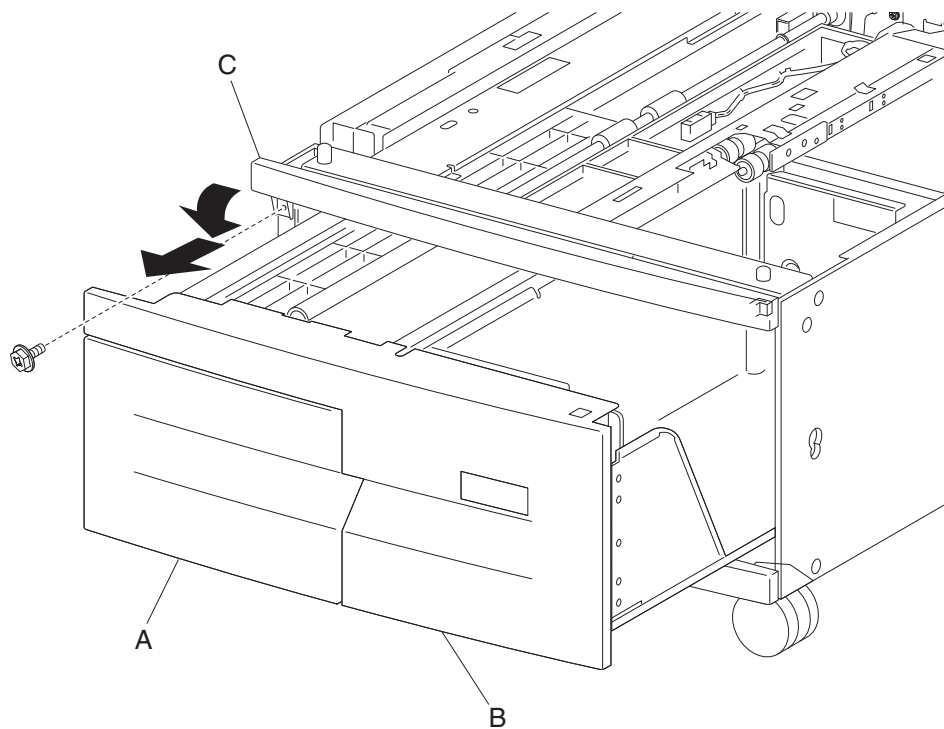
Next



Go Back

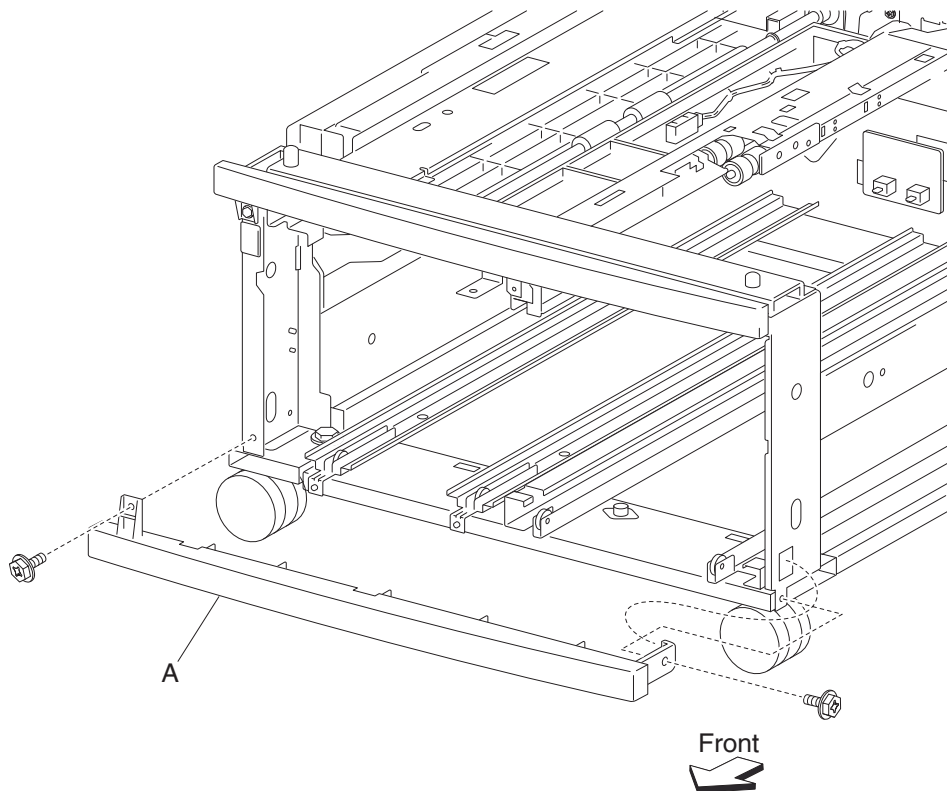
2000-sheet dual input (TTM)—top cover removal

1. Pull out the tray 3 (A) and the tray 4 (B).
2. Remove one screw securing the top cover (C).
3. Remove the top cover (C).



2000-sheet dual input (TTM)—foot cover removal

1. Remove tray 3 assembly. See “2000-sheet dual input (TTM)—tray 3 assembly removal” on page 4-224.
2. Remove tray 4 assembly. See “2000-sheet dual input (TTM)—tray 4 assembly removal” on page 4-223.
3. Remove the right cover. See “2000-sheet dual input (TTM)—right cover removal” on page 4-217.
4. Remove two screws securing the foot cover (A).
5. Remove the foot cover (A).



Previous



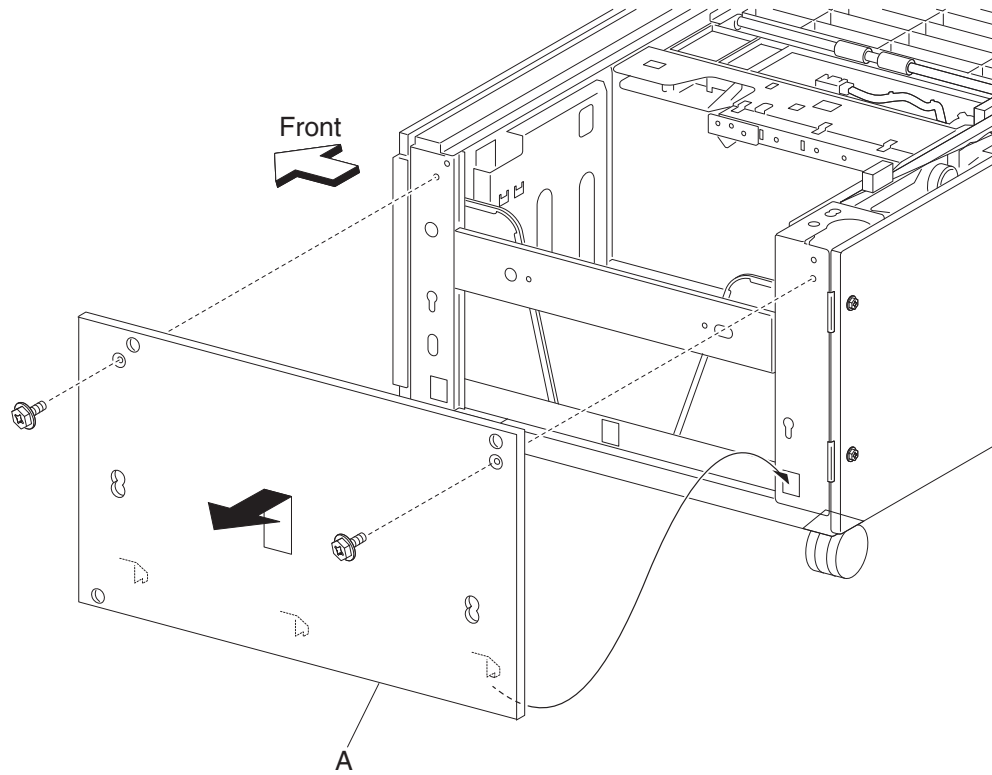
Next



Go Back

2000-sheet dual input (TTM)—right cover removal

1. Remove two screws securing the right cover (A).
2. Remove the right cover (A) by lifting upward and outward in the direction of the arrow.



Previous



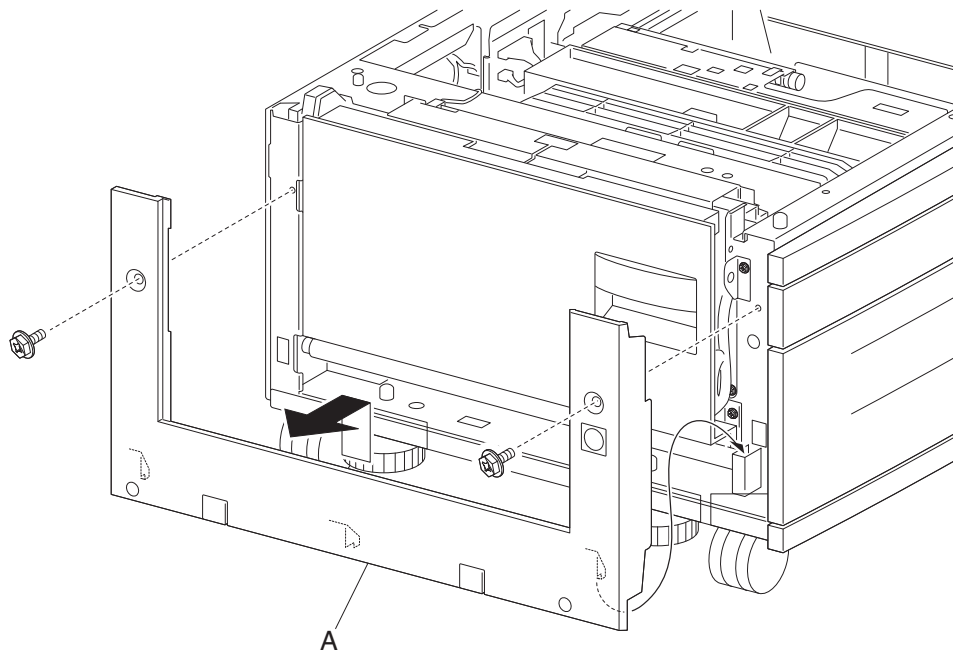
Next



Go Back

2000-sheet dual input (TTM)—left cover removal

1. Remove two screws securing the left cover (A).
2. Remove the left cover (A).



Previous



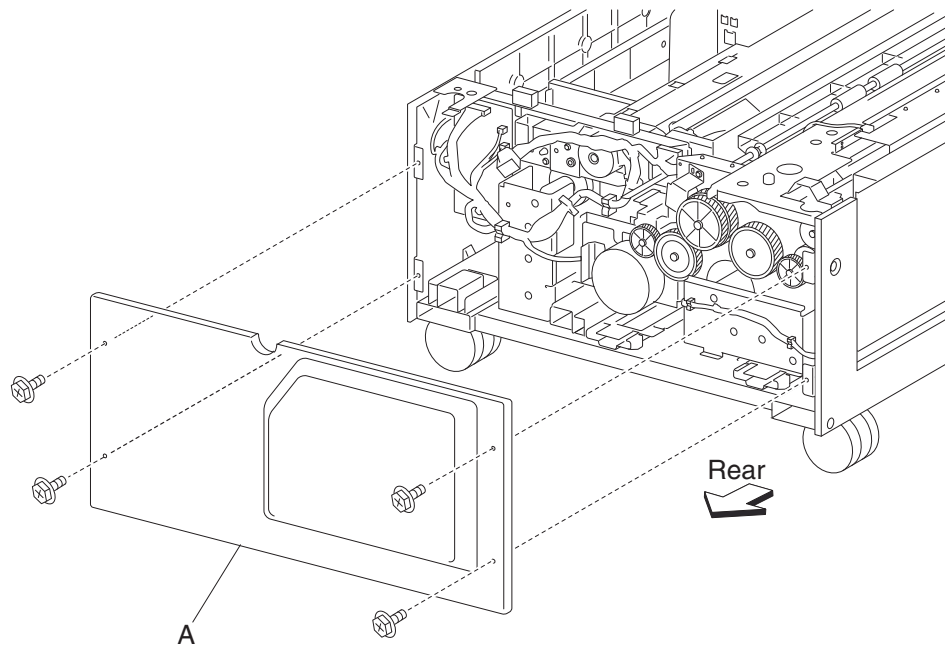
Next



Go Back

2000-sheet dual input (TTM)—rear cover removal

1. Remove four screws securing the rear cover (A).
2. Remove the rear cover (A).



Previous



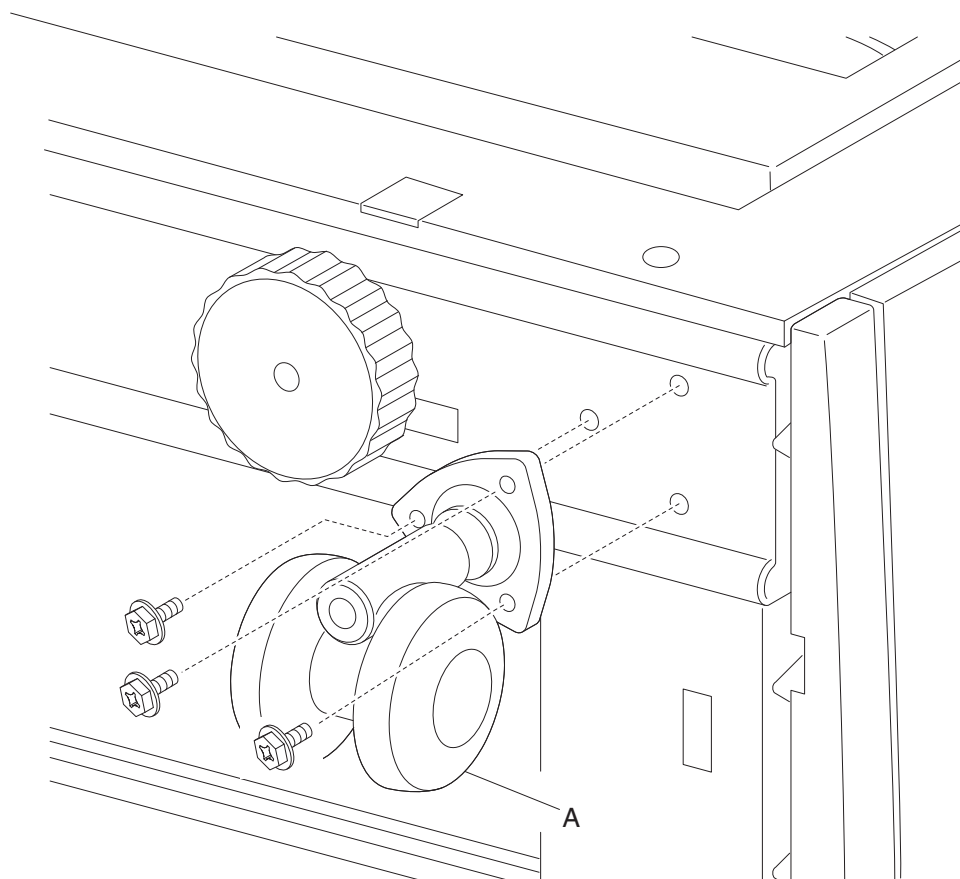
Next



Go Back

2000-sheet dual input (TTM)—caster removal

1. Remove tray 3 assembly. See **“2000-sheet dual input (TTM)—tray 3 assembly removal”** on **page 4-224**.
2. Remove tray 4 assembly. See **“2000-sheet dual input (TTM)—tray 4 assembly removal”** on **page 4-223**.
3. Place the right side down.
4. Remove three screws securing the caster (A).
5. Remove the caster (A).



Previous



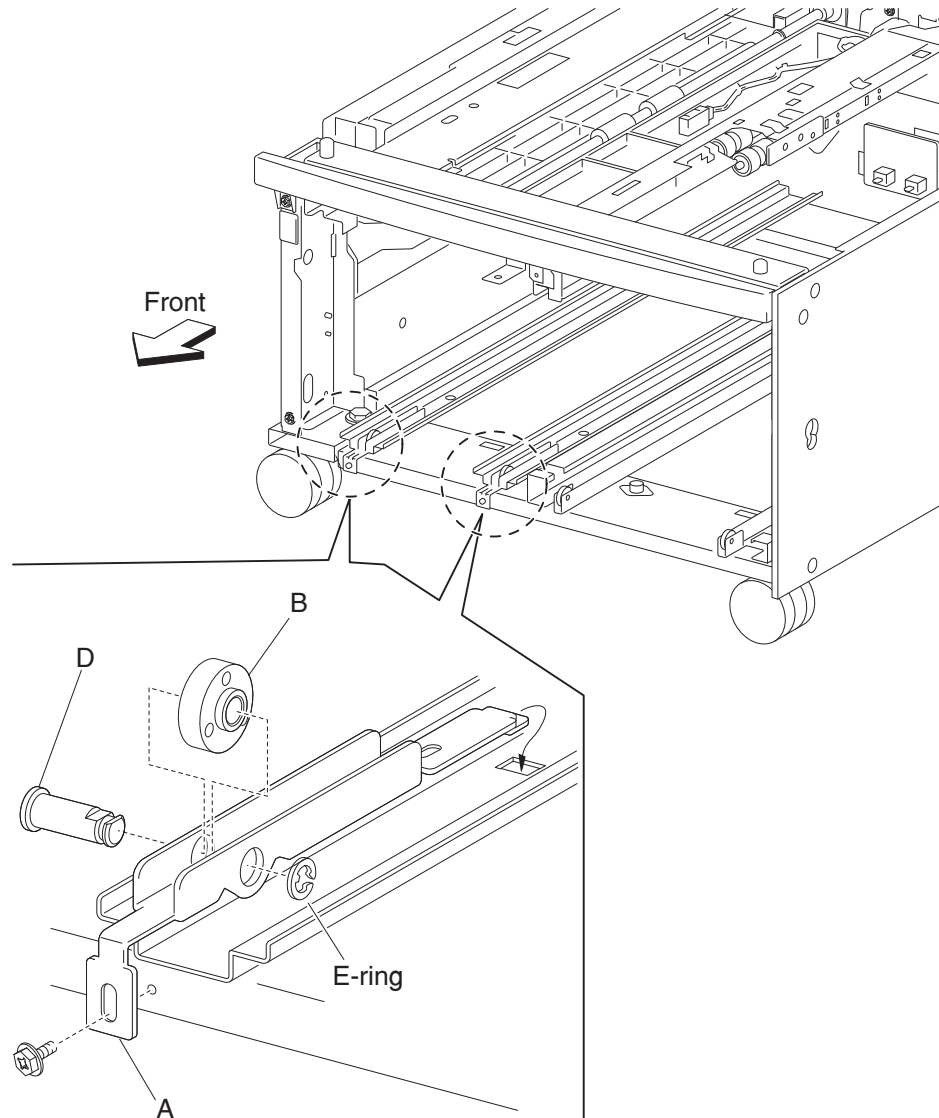
Next



Go Back

2000-sheet dual input (TTM)—tray support roll removal

1. Remove tray 3 assembly. See **“2000-sheet dual input (TTM)—tray 3 assembly removal”** on page 4-224.
2. Remove tray 4 assembly. See **“2000-sheet dual input (TTM)—tray 4 assembly removal”** on page 4-223.
3. Remove the foot cover. See **“2000-sheet dual input (TTM)—foot cover removal”** on page 4-216.
4. Remove two screws securing the two brackets (A).
5. Remove the two e-clips securing the tray support rolls (B) to the two brackets (A) using a prying tool.
6. Remove the two e-clips securing the tray support rolls (B) to the main frame.



7. Remove the shafts (D).

Previous

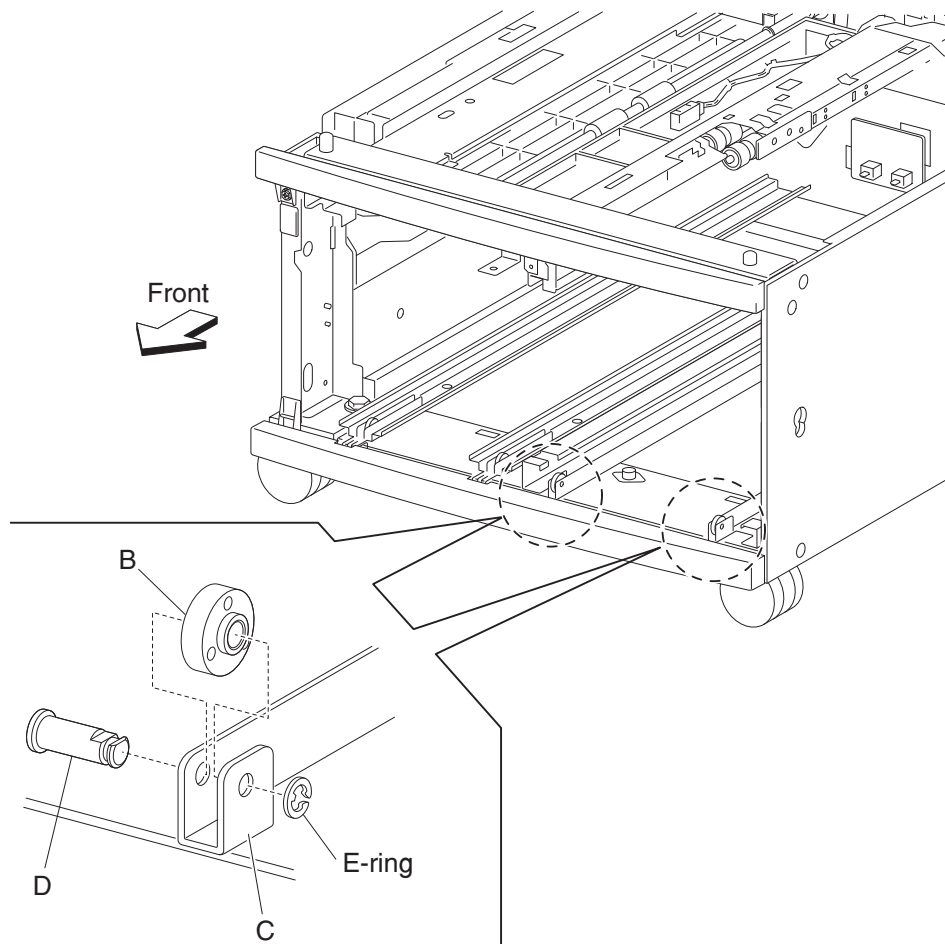


Next



Go Back

8. Remove the tray support rolls (B).



Previous



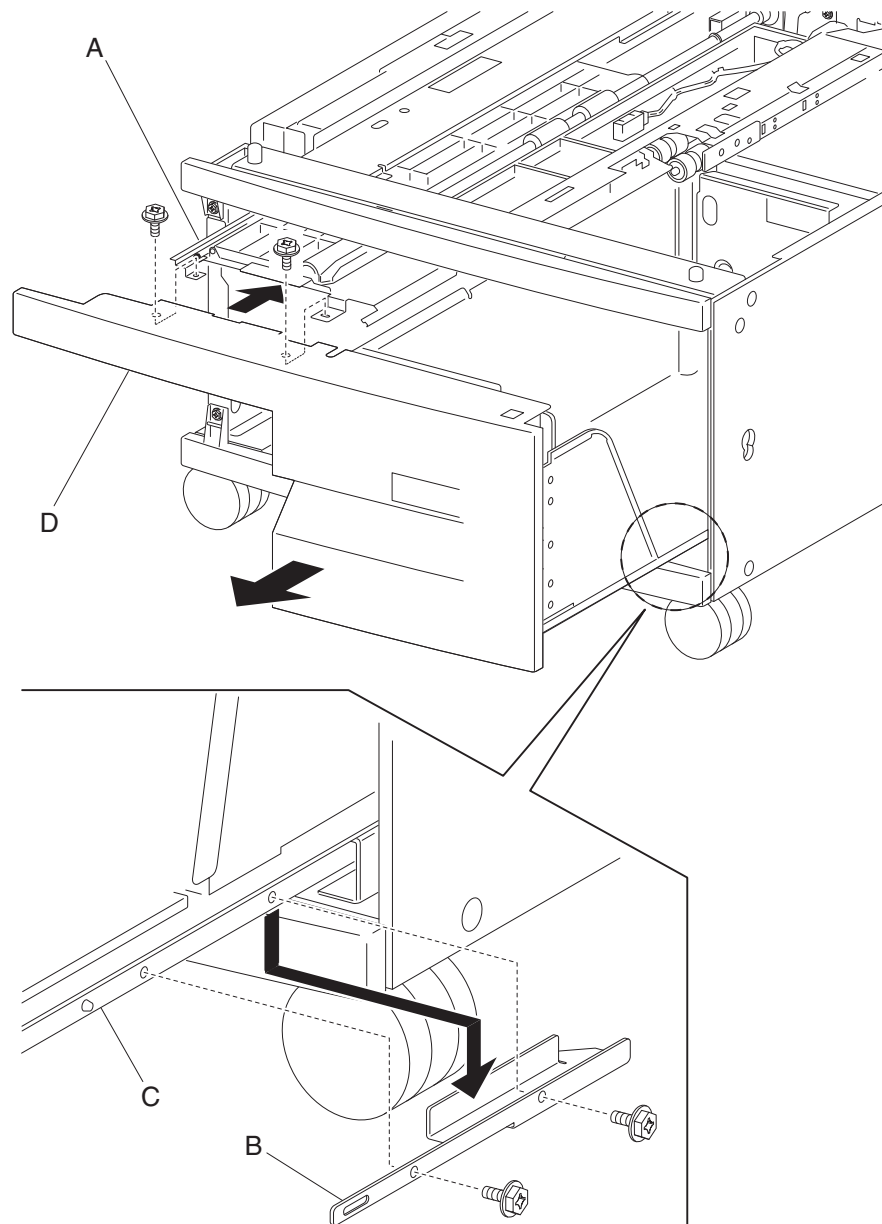
Next



Go Back

2000-sheet dual input (TTM)—tray 4 assembly removal

1. Pull out the tray 4 assembly.
2. Remove two screws securing the tray 4 transport assembly (A).
3. Push the tray 4 transport assembly (A) into the machine in the direction of the arrow.
4. Remove two screws securing the tray 4 stopper (B) to the lower part of tray 4 assembly (C).
5. Remove the tray 4 stopper (B).
6. Remove the tray 4 assembly (C).



Previous



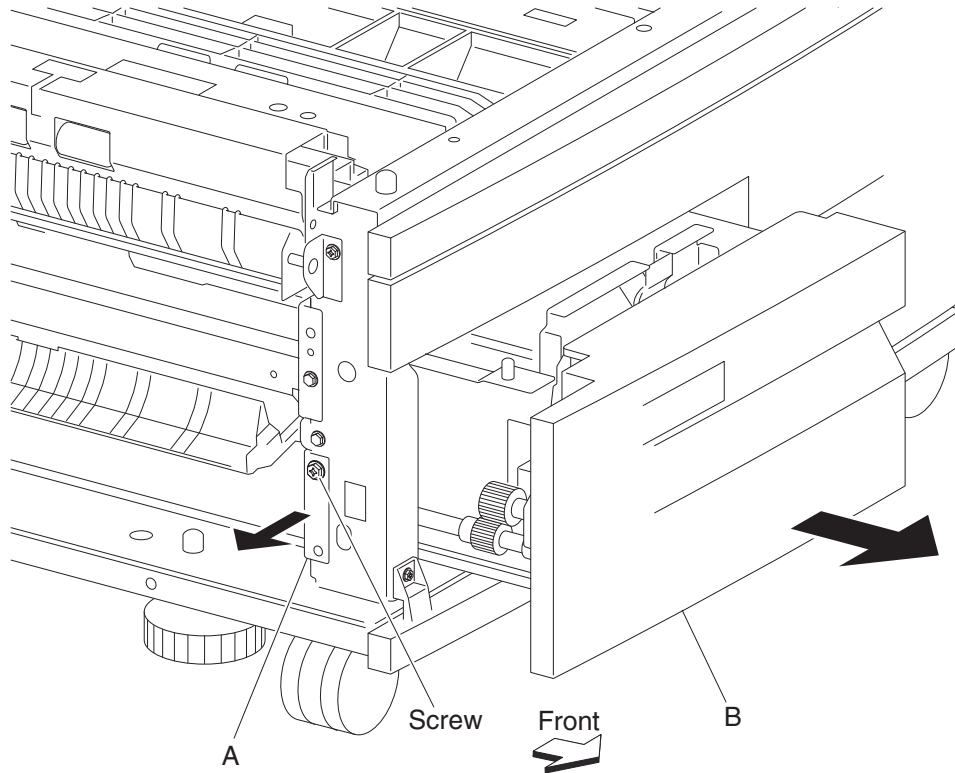
Next



Go Back

2000-sheet dual input (TTM)—tray 3 assembly removal

1. Remove the left cover. See **“2000-sheet dual input (TTM)—left cover removal”** on page 4-218.
2. Open the 2TM/TTM left door assembly.
3. Loosen the screw securing the tray 3 stopper (A).
4. Move the tray 3 stopper (A) outward in the direction of the arrow while pulling out the tray 3 assembly (B).
5. Remove the tray 3 assembly (B).



Previous



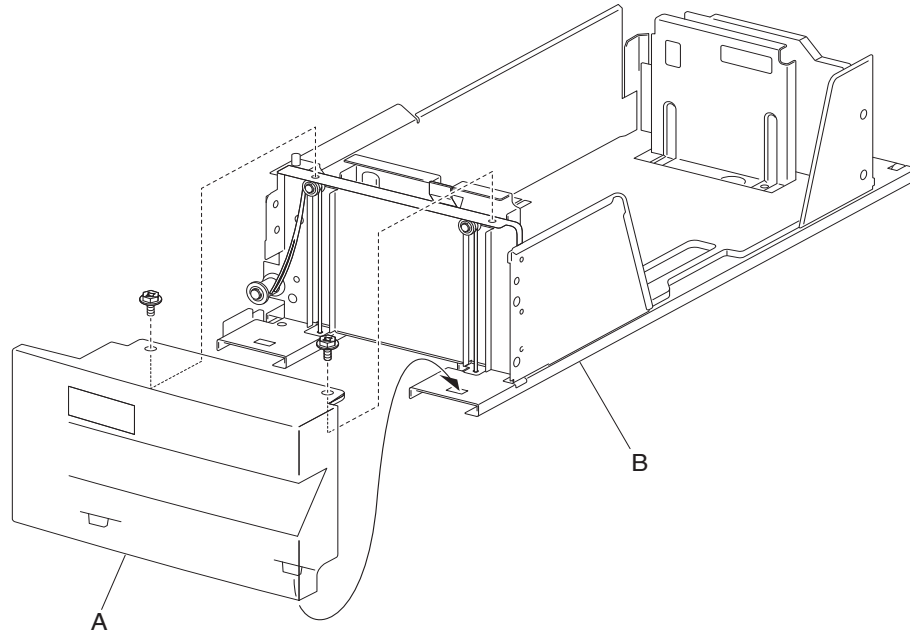
Next



Go Back

2000-sheet dual input (TTM)—tray 3 front cover removal

1. Pull out the tray 3 assembly.
2. Remove two screws securing the tray 3 front cover (A) to tray 3 assembly (B).
3. Remove the tray 3 front cover (A).



Previous



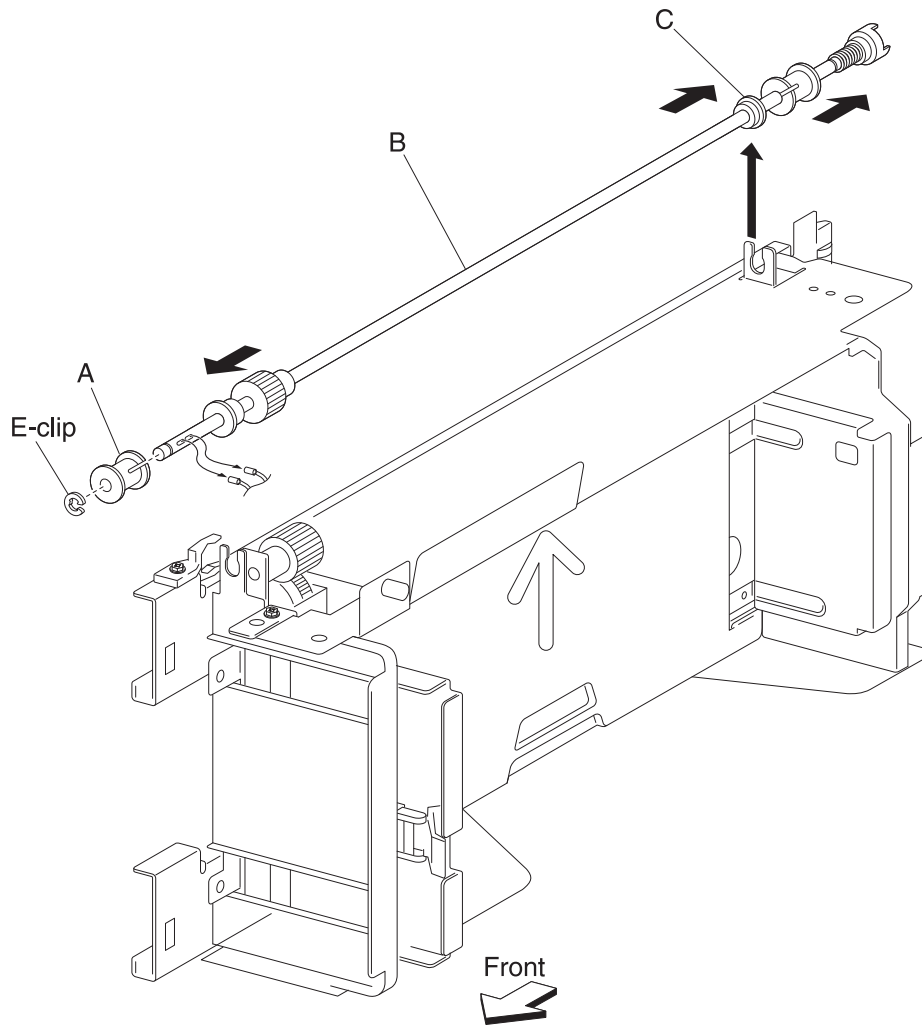
Next



Go Back

2000-sheet dual input (TTM)—tray 3 rear cable assembly removal

1. Remove the left cover. See “2000-sheet dual input (TTM)—left cover removal” on page 4-218.
 2. Remove the tray 3 assembly. See “2000-sheet dual input (TTM)—tray 3 assembly removal” on page 4-224.
 3. Remove the tray 3 front cover. See “2000-sheet dual input (TTM)—tray 3 front cover removal” on page 4-225.
 4. Remove the E-clip with a prying tool securing the front lift cable pulley (A) to the tray lift shaft assembly (B).
 5. Gently move the tray lift shaft assembly (B) toward the rear of the tray and detach the rear bushing (C) from the frame.
- Note:** Do not remove the front lift cable pulley (A) or the front lift cables will become detached.
6. Move the rear portion of the tray lift shaft assembly (B) away from the frame.



Previous

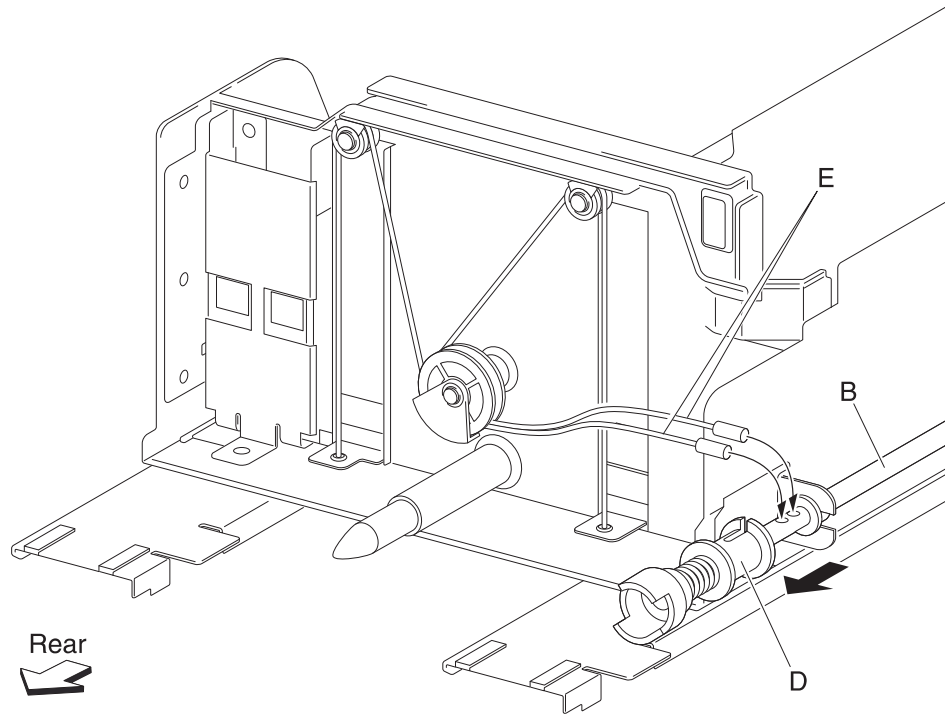


Next



Go Back

7. Move the rear lift cable pulley (D) toward the rear of the tray to release the two tray 3 rear cables (E) from the tray lift shaft assembly (B).



8. Remove the two tray 3 rear cables (E) from the tray lift shaft assembly (B).

Previous

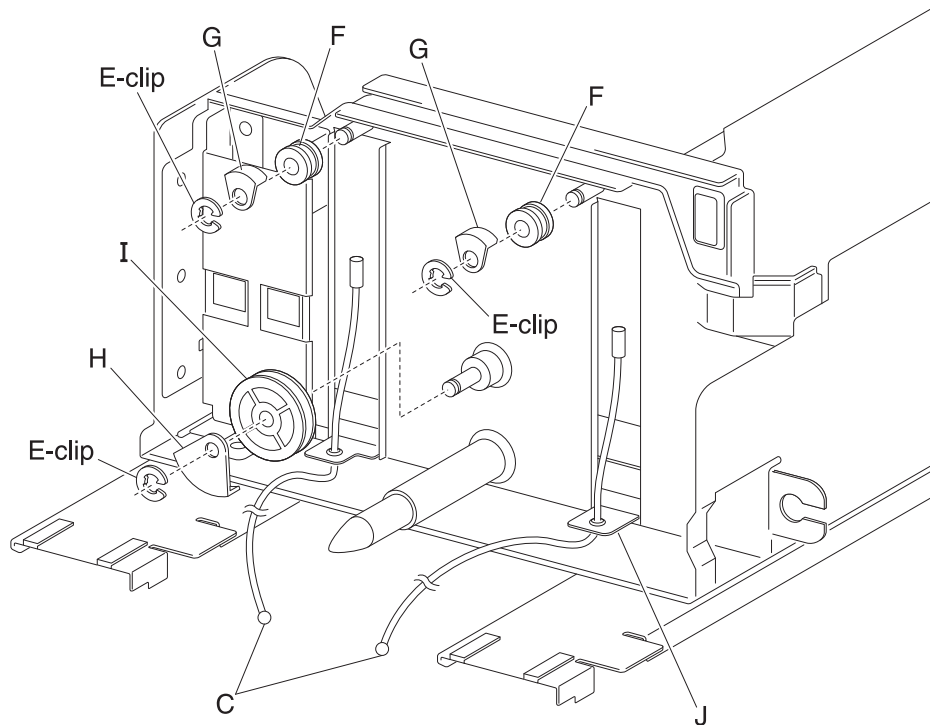


Next



Go Back

9. Remove two E-clips with a prying tool securing the two small pulleys (F) on the rear of the frame assembly.
10. Remove the two small guides (G) and the two small pulleys (F).
11. Remove the E-clip with a prying tool securing the large guide (H) and the large pulley (I) to the frame assembly.
12. Remove the large guide (H) and the large pulley (I).
13. Remove the tray 3 rear cables (E) from the bottom plate (J).



Note: Before re-installing:

- Ensure tray 3 rear cables (E) are not twisted or kinked.
- Route the cables properly as shown in the figure.

Replace the cables by setting the frame assembly on its side as shown in the figure.

Previous



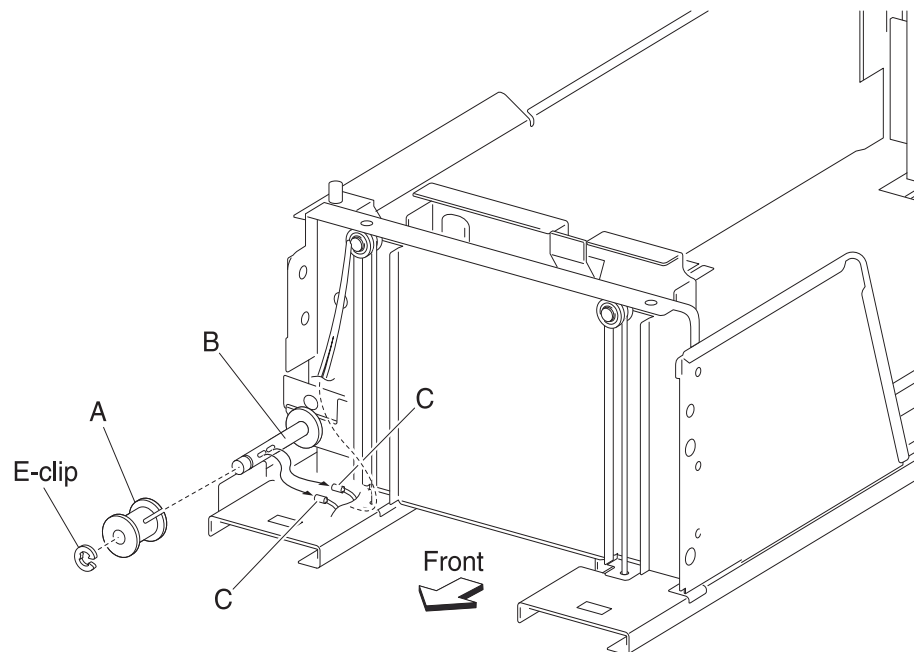
Next



Go Back

2000-sheet dual input (TTM)—tray 3 front cable assembly removal

1. Remove the left cover. See [“2000-sheet dual input \(TTM\)—left cover removal” on page 4-218.](#)
 2. Remove the tray 3 assembly. See [“2000-sheet dual input \(TTM\)—tray 3 assembly removal” on page 4-224.](#)
 3. Remove the tray 3 front cover. See [“2000-sheet dual input \(TTM\)—tray 3 front cover removal” on page 4-225.](#)
 4. Remove the E-clip with a prying tool securing the tray lift pulley (A) to the tray lift shaft assembly (B).
 5. Remove the lift cable pulley (A).
 6. Remove the tray 3 front cables (C) from the tray lift shaft assembly (B).
- Note:** The tray 3 front cables (C) become detached.



Previous

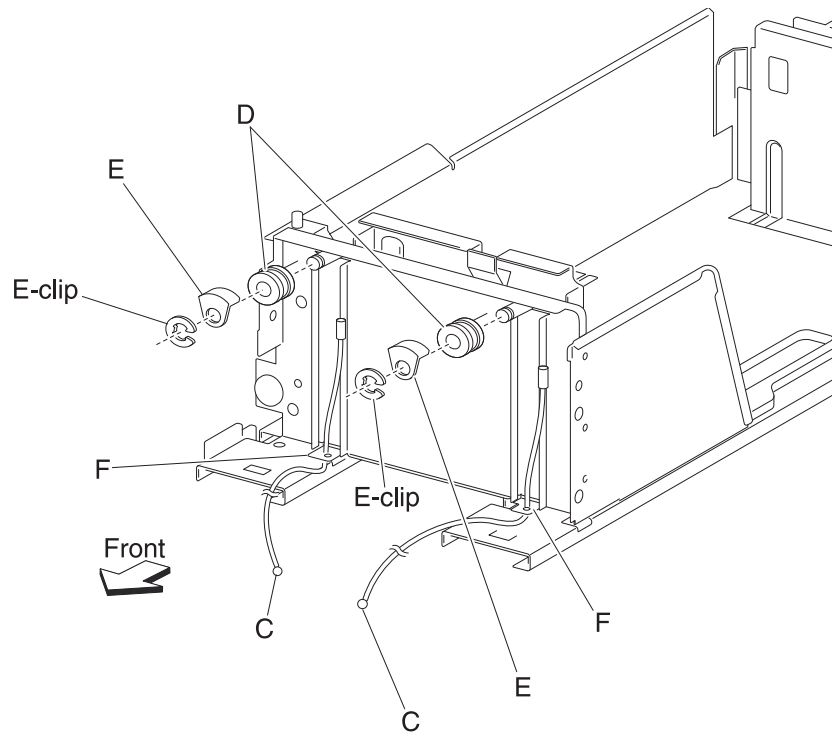


Next



Go Back

7. Remove two E-clips with a prying tool securing the two small pulleys (D) on the front of the frame assembly.
8. Remove two small guides (E) and the two small pulleys (D).
9. Remove the tray 3 front cables (C) from the bottom plate (F).



Note: Before re-installing:

- It is recommended that all four cables be replaced.
- Ensure tray 3 front cables (C) are not twisted or kinked.
- Route the cables properly as shown in the figure.
- Replace the cables by setting the frame assembly (B) on its side as shown in the figure.

2000-sheet dual input (TTM)—media guide rack and pinion removal

1. Remove the tray 3 assembly. See **“2000-sheet dual input (TTM)—tray 3 assembly removal” on page 4-224.**
2. Place the tray 3 assembly on its right side.
3. Remove the e-clip securing the pinion gear (A) to the frame assembly (B).
4. Remove the pinion gear (A).
5. Remove the four screws securing the two rack gears (C) to the frame assembly (B).

Previous

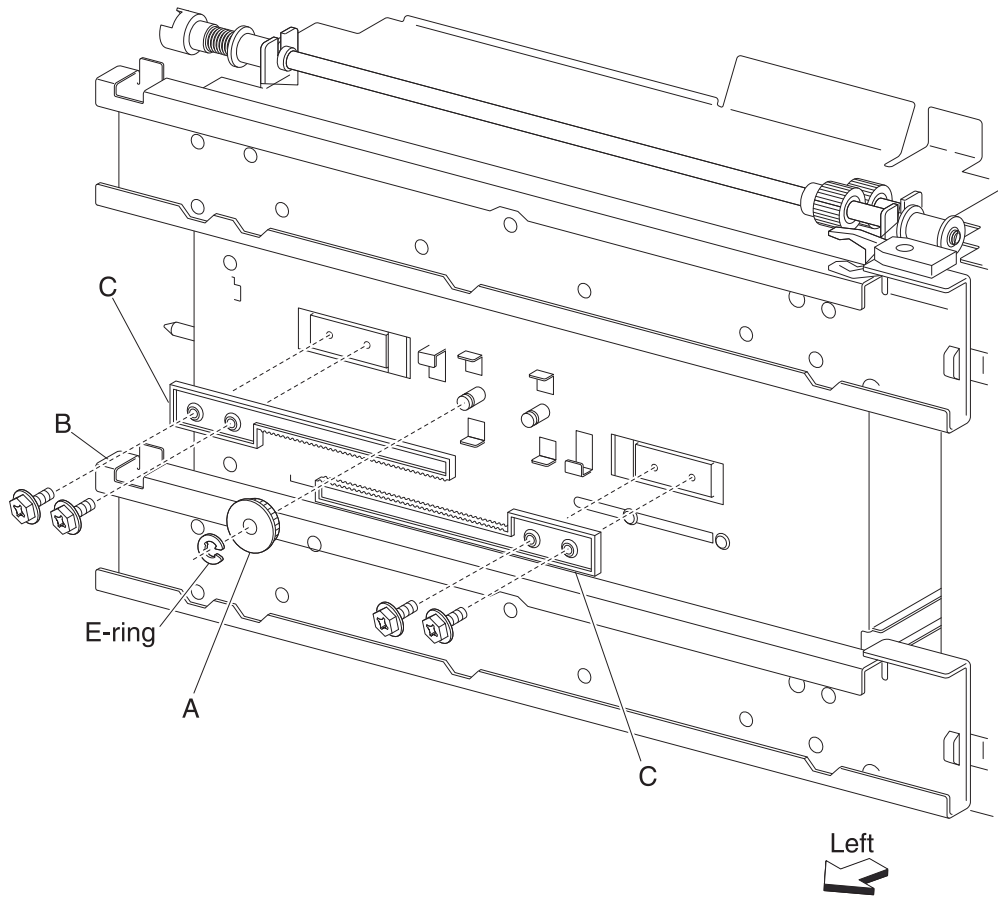


Next



Go Back

6. Remove the rack gears (C).



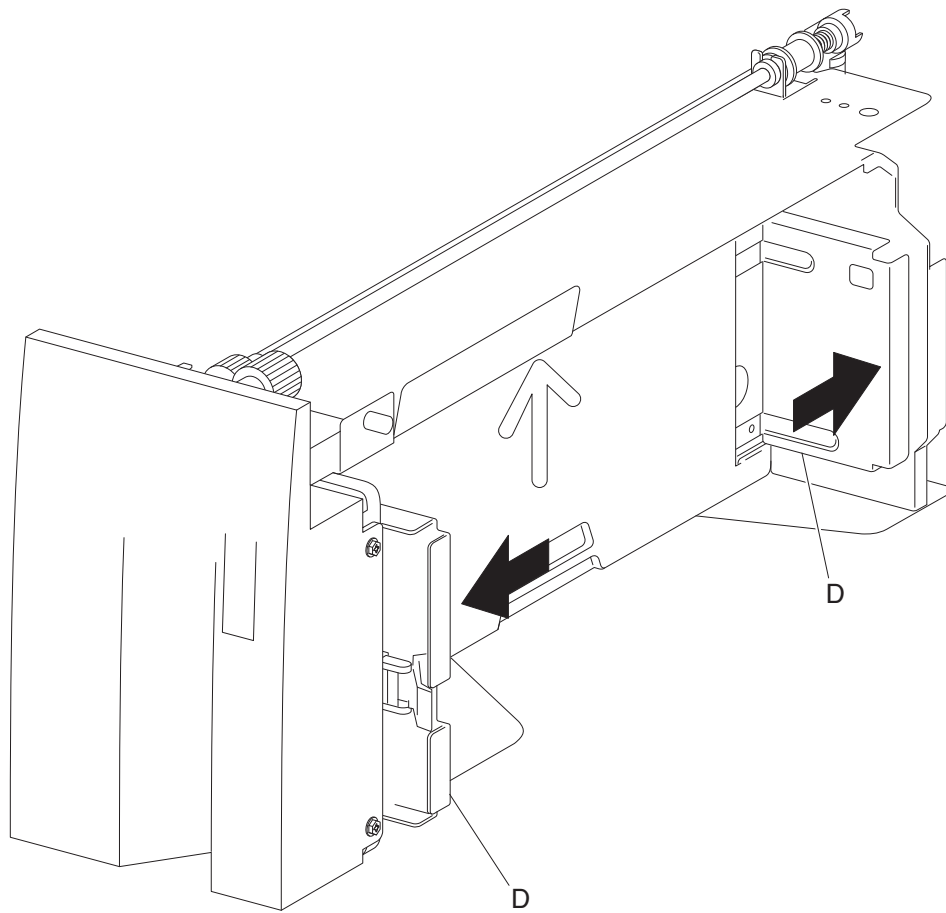
Previous



Next



Go Back



Previous



Next



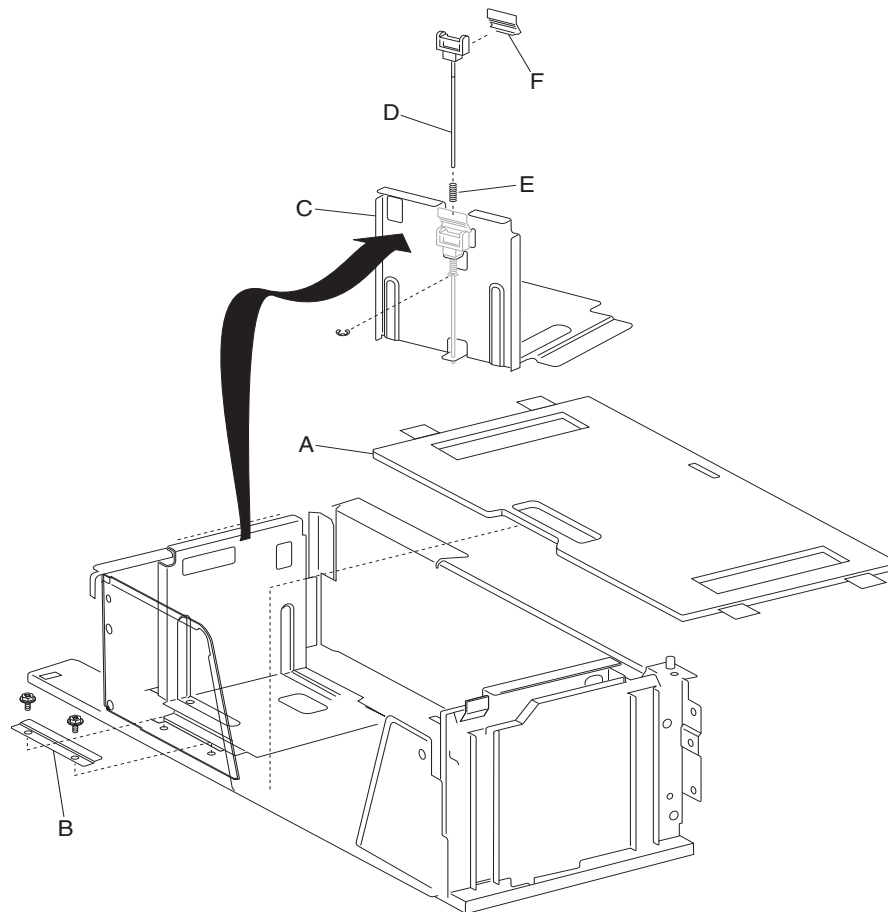
Go Back

Note: Before re-installing, move the two side guides (D) of the frame assembly (B) fully outward before installing the two pinion gears (A).

2000-sheet dual input (TTM)—tray 3 media guide lock assembly removal

1. Remove the tray 3 assembly. See [“2000-sheet dual input \(TTM\)—tray 3 assembly removal” on page 4-224](#).
2. Remove the tray 3 front cover. See [“2000-sheet dual input \(TTM\)—tray 3 front cover removal” on page 4-225](#).
3. Remove the tray 3 rear cable assembly. See [“2000-sheet dual input \(TTM\)—tray 3 rear cable assembly removal” on page 4-226](#).
4. Remove the tray 3 front cable assembly. See [“2000-sheet dual input \(TTM\)—tray 3 front cable assembly removal” on page 4-229](#).
5. Remove the media guide rack and pinion. See [“2000-sheet dual input \(TTM\)—media guide rack and pinion removal” on page 4-230](#).
6. Move both media guides fully inward.
7. Lift the front edge of the bottom plate from the tray.
8. Remove the bottom plate (A) from the tray.
9. Remove the two screws securing the bracket (B) to the tray.
10. Remove the front media guide (C).
11. Remove the e-clip securing the tray 3 media guide lock (D) to the front media guide (C).
12. Remove the tray 3 media guide lock (D).
13. Remove the spring (E).
14. Remove the tray 3 media guide lock button (F) from the tray 3 media guide lock (D).

Note: Before re-installing, ensure the tray 3 media guide lock (D) and the tray 3 media guide lock button (F) are properly installed as shown in the figure.



Previous



Next

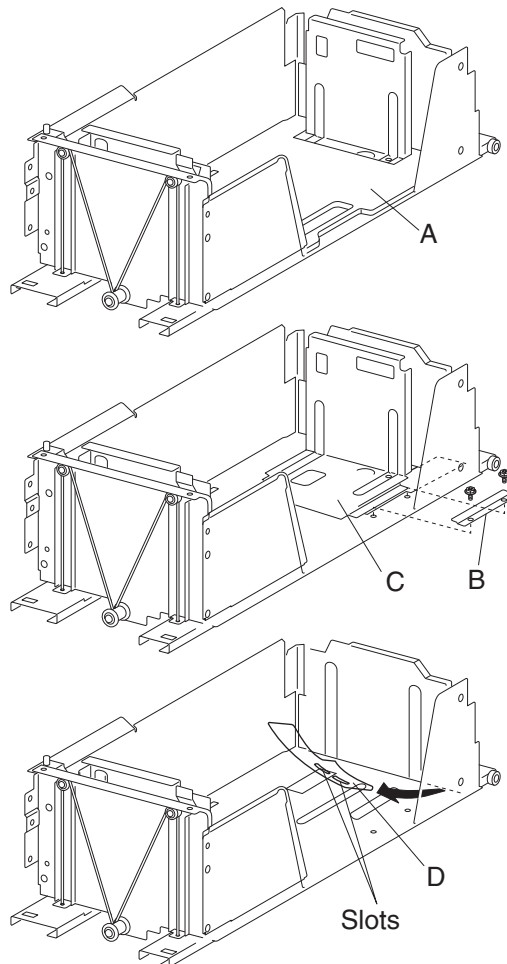


Go Back

2000-sheet dual input (TTM)—tray 3 mylar actuator removal

1. Remove the tray 3 assembly. See “2000-sheet dual input (TTM)—tray 3 assembly removal” on page 4-224.
2. Remove the tray 3 front cover. See “2000-sheet dual input (TTM)—tray 3 front cover removal” on page 4-225.
3. Remove the tray 3 rear cable assembly. See “2000-sheet dual input (TTM)—tray 3 rear cable assembly removal” on page 4-226.
4. Remove the tray 3 front cable assembly. See “2000-sheet dual input (TTM)—tray 3 front cable assembly removal” on page 4-229.
5. Remove the media guide rack and pinion. See “2000-sheet dual input (TTM)—media guide rack and pinion removal” on page 4-230.
6. Move both media guides fully inward.
7. Lift the front edge of the bottom plate (A) from the tray.
8. Remove the bottom plate (A) from the tray.
9. Remove the two screws securing the bracket (B) to the tray.
10. Remove the rear media guide (C).
11. Remove the mylar actuator (D) by sliding it out of the tray in the direction of the arrow.

Note: Before re-installing, ensure the bosses on the rear media guide (C) are fitted into the slots on the mylar actuator (D) as shown in the figure.



Previous



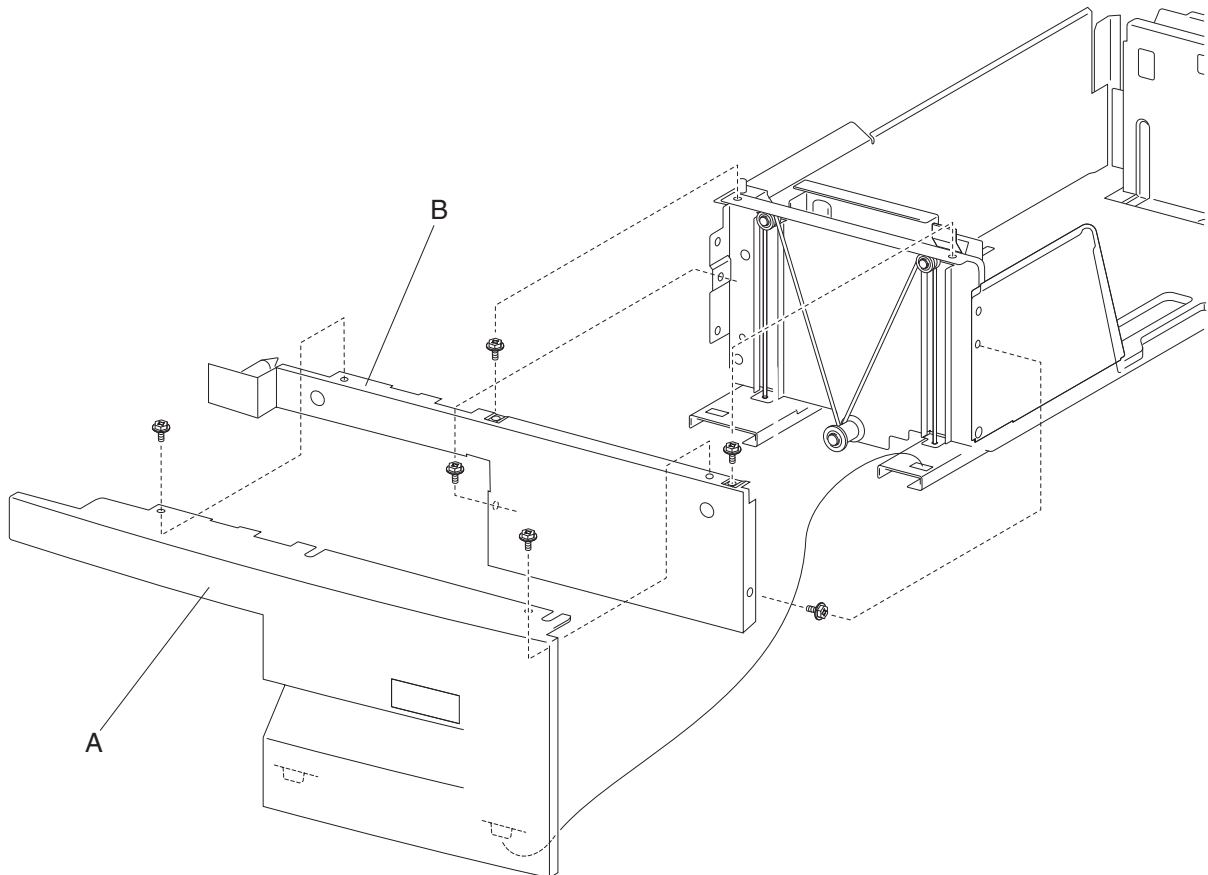
Next



Go Back

2000-sheet dual input (TTM)—tray 4 front cover removal

1. Remove the tray 4 assembly. See **“2000-sheet dual input (TTM)—tray 4 assembly removal” on page 4-223.**
2. Remove two screws securing the tray 4 front cover (A).
3. Remove the tray 4 front cover (A) by moving it upward in the direction of the arrow.
4. Remove the four screws securing the bracket (B) to the tray.
5. Remove the bracket (B).



Previous



Next

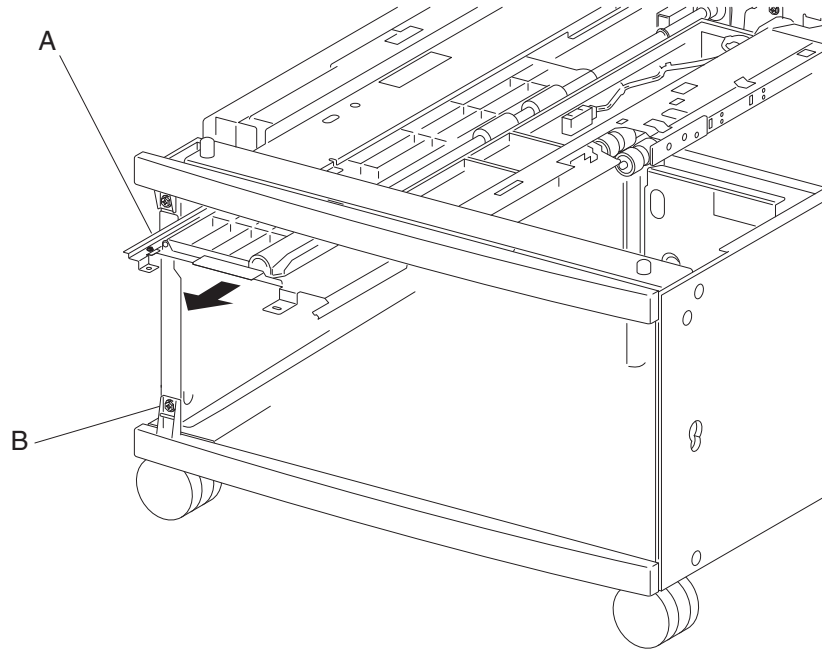


Go Back

2000-sheet dual input (TTM)—tray 4 media transport assembly removal

1. Remove the tray 4 assembly. See **“2000-sheet dual input (TTM)—tray 4 assembly removal” on page 4-223.**
2. Remove the tray 4 transport assembly (A).

Note: Before re-installing, insert the tray 4 transport assembly (A) into the rails of the frame assembly (B).



Previous



Next

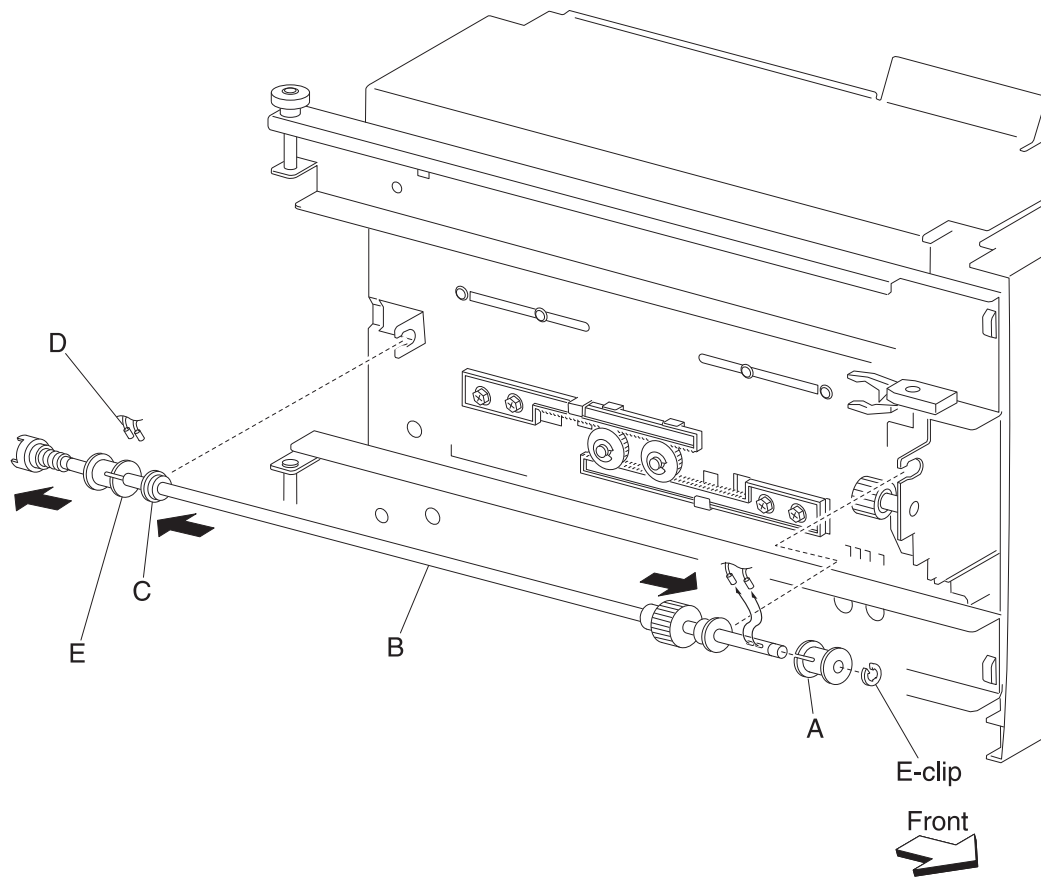


Go Back

2000-sheet dual input (TTM)—tray 4 rear cables removal

1. Remove the tray 4 assembly. See [“2000-sheet dual input \(TTM\)—tray 4 assembly removal” on page 4-223.](#)
2. Remove the tray 4 front cover. See [“2000-sheet dual input \(TTM\)—tray 4 front cover removal” on page 4-235.](#)
3. Place the tray 4 assembly on its right side as shown in the figure.
4. Remove the E-clip with a prying tool securing the tray lift cable pulley (A) to the tray lift shaft assembly (B).
5. Gently move the tray lift shaft assembly (B) toward the rear of the tray and detach the rear bushing (C) from the frame.

Note: Do not remove the front lift cable pulley (A) or the front lift cables will become detached.
6. Move the rear portion of the tray lift shaft assembly (B) away from the frame.
7. Move the rear the rear lift cable pulley (E) toward the rear of the tray to release the two tray 4 rear cables (D) from the tray lift shaft assembly (B).
8. Remove the two tray 4 rear cables (D) from the tray lift shaft assembly (B).



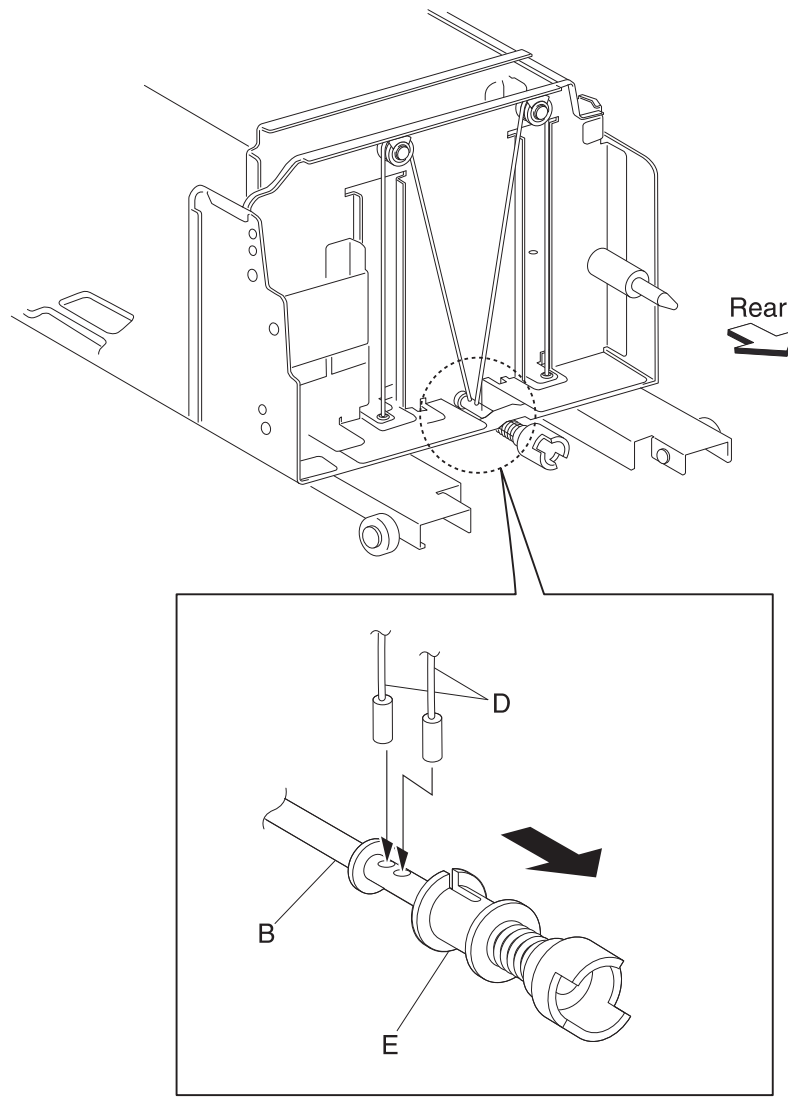
Previous



Next



Go Back



Previous



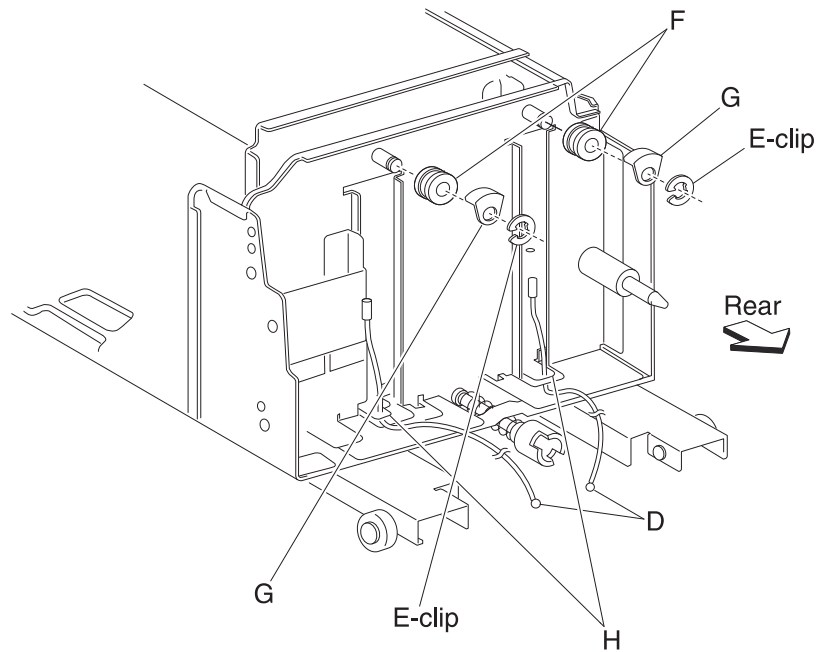
Next



Go Back

9. Place the tray 4 assembly back to its upright position.

10. Remove two E-clips with a prying tool securing the two small pulleys (F) on the rear of the frame assembly.
11. Remove two small guides (G) and two small pulleys (F).
12. Remove the tray 4 rear cables (D) from the bottom plate (H).



Note: Before re-installing:

- It is recommended that all four cables be replaced.
- Ensure tray 4 rear cables (D) are not twisted or kinked.
- Route the cables properly as shown in the figure.
- Replace the cables by setting the frame assembly on its side as shown in the figure.

Previous



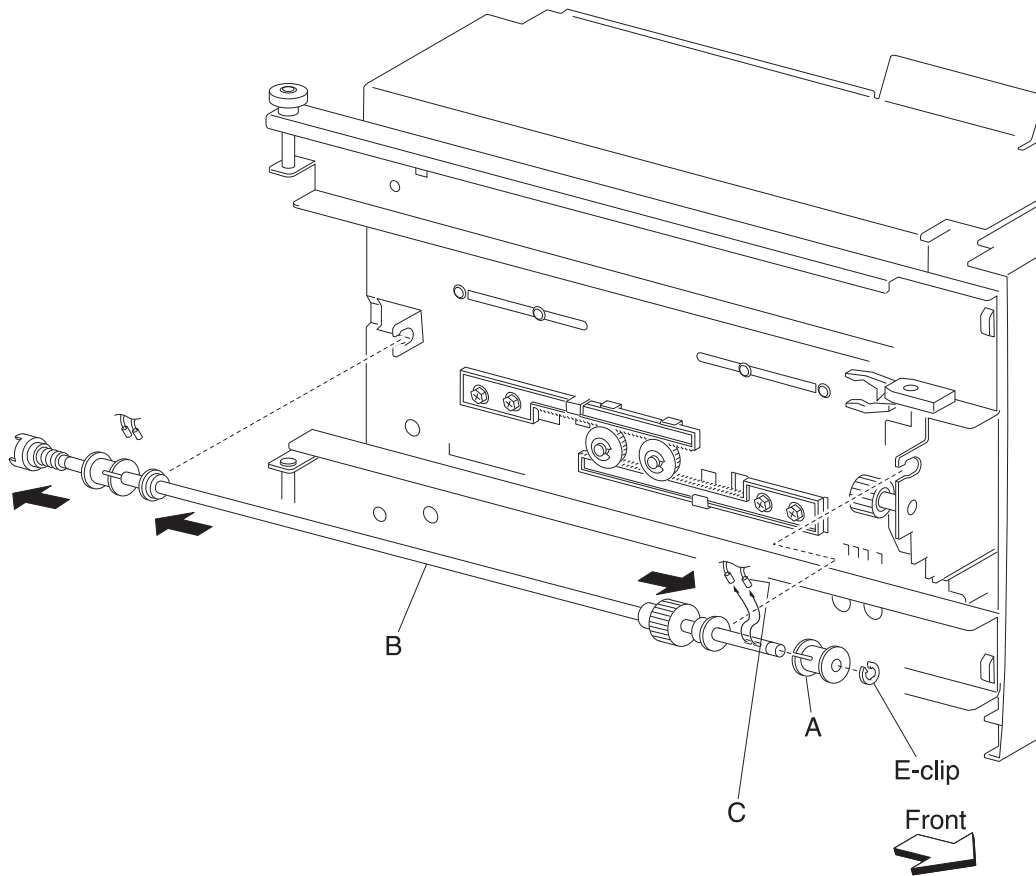
Next



Go Back

2000-sheet dual input (TTM)—tray 4 front cables removal

1. Remove the tray 4 assembly. See **“2000-sheet dual input (TTM)—tray 4 assembly removal” on page 4-223.**
 2. Remove the tray 4 front cover. See **“2000-sheet dual input (TTM)—tray 4 front cover removal” on page 4-235.**
 3. Place the tray 4 assembly on its right side, as shown in the figure.
 4. Remove the E-clip with a prying tool securing the front tray lift pulley (A) to the tray lift shaft assembly (B).
 5. Remove the front tray lift pulley (A).
 6. Remove the tray 4 front cables (C) from the tray lift shaft assembly (B).
- Note:** The tray 4 front cables (C) become detached.



Previous

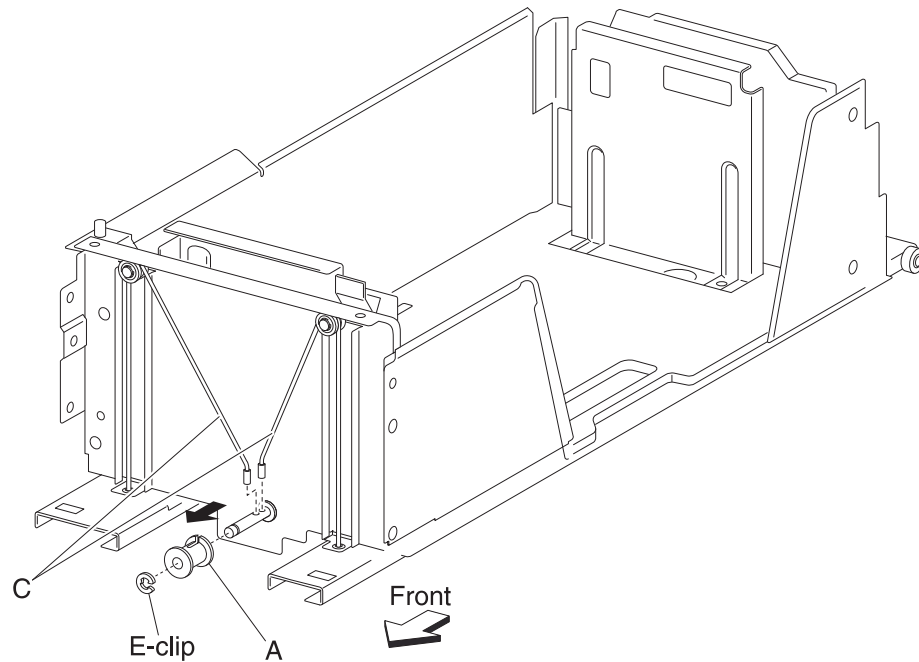


Next



Go Back

7. Place the tray 4 assembly back in its upright position.



Previous

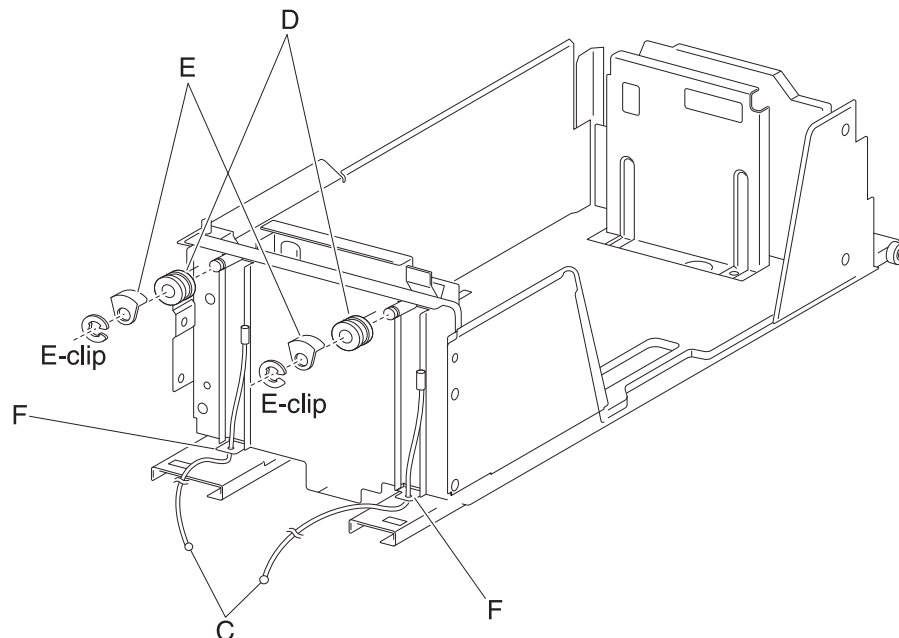


Next



Go Back

8. Remove two E-clips with a prying tool securing the two small pulleys (D) on the front of the frame assembly.
9. Remove the two small guides (E) and the two small pulleys (D).
10. Remove the tray 4 front cables (C) from the bottom plates (F).

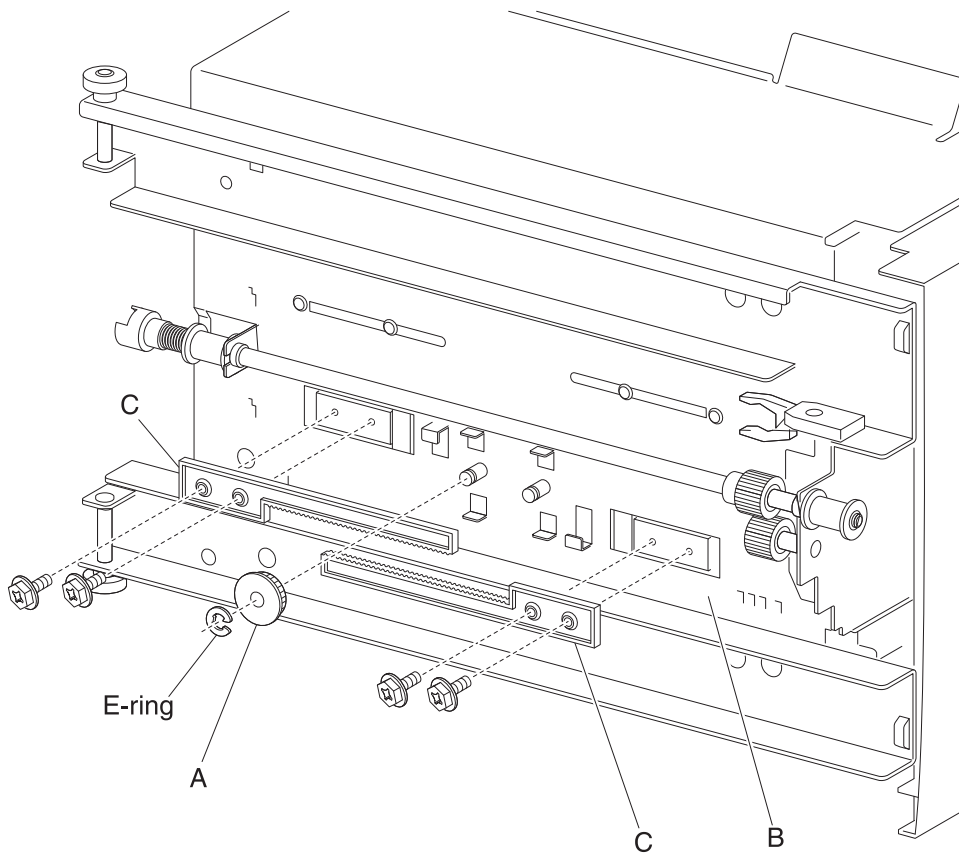


Note: Before re-installing:

- It is recommended that all four cables be replaced.
- Ensure tray 4 front cables (C) are not twisted or kinked.
- Route the cables properly as shown in the figure.
- Replace the cables by setting the frame assembly (B) on its side as shown in the figure.

2000-sheet dual input (TTM)—tray 4 media guide rack and pinion removal

1. Remove the tray 4 assembly. See **“2000-sheet dual input (TTM)—tray 4 assembly removal”** on **page 4-223**.
2. Place the tray 4 assembly on its right side, as shown in the figure.
3. Remove the e-clip securing the pinion gear (A) to the frame assembly (B).
4. Remove pinion gear (A).



5. Remove four screws securing the two rack gears (C) to the frame assembly (B).

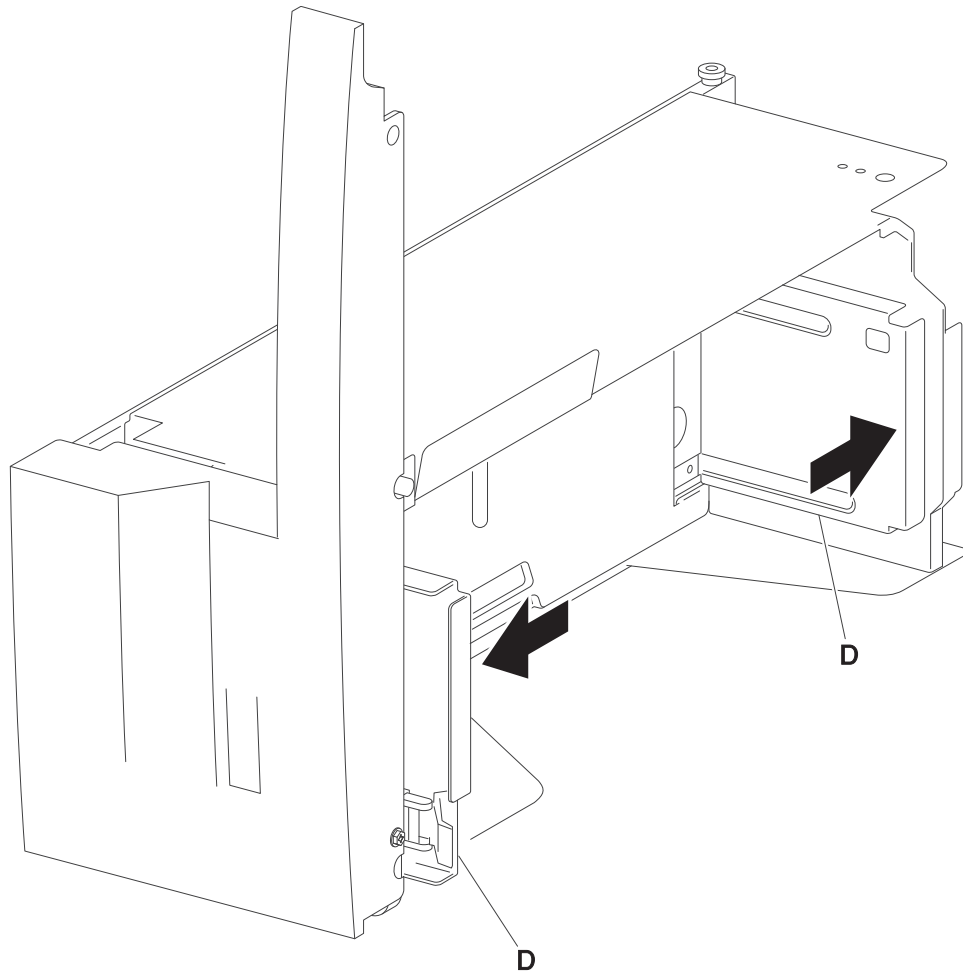
Previous



Next



Go Back

6. Remove the rack gears (C).

Note: Before re-installing, move the two side guides (D) of the frame assembly (B) fully outward before installing the two pinion gears (A).

Previous



Next

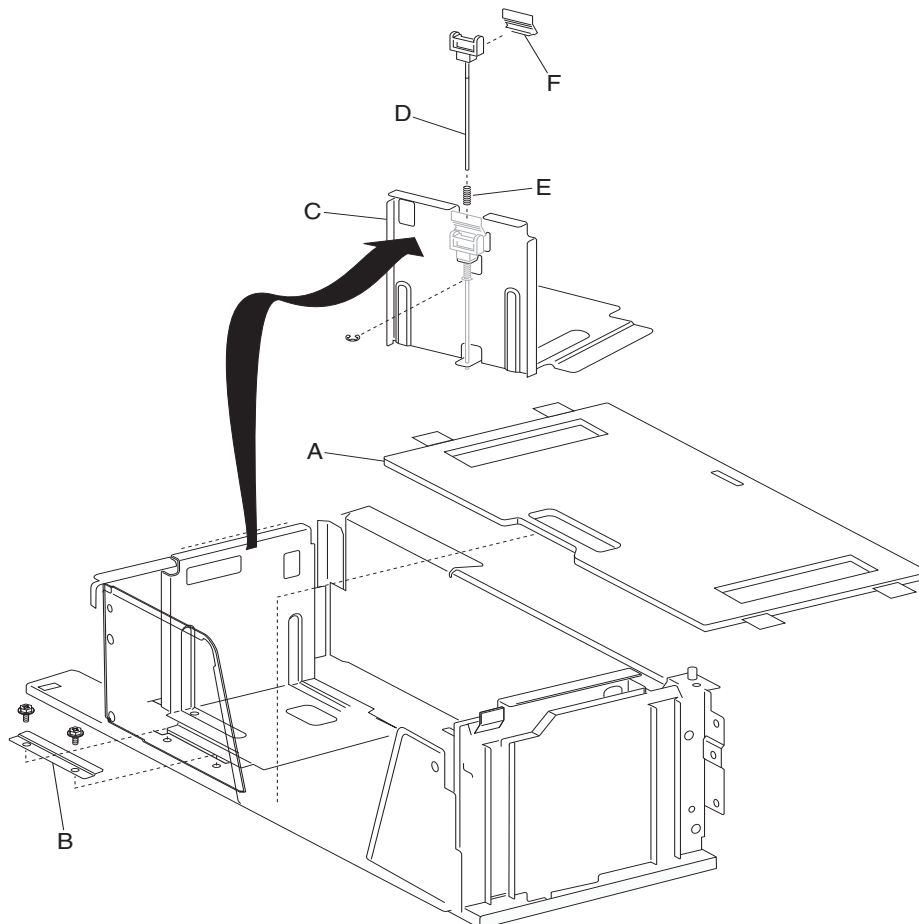


Go Back

2000-sheet dual input (TTM)—tray 4 media guide lock assembly removal

1. Remove the tray 4 assembly. See “2000-sheet dual input (TTM)—tray 4 assembly removal” on page 4-223.
2. Remove the tray 4 front cover. See “2000-sheet dual input (TTM)—tray 4 front cover removal” on page 4-235.
3. Remove the tray 4 rear cable assembly. See “2000-sheet dual input (TTM)—tray 4 rear cables removal” on page 4-237.
4. Remove the tray 4 front cable assembly. See “2000-sheet dual input (TTM)—tray 4 front cables removal” on page 4-240.
5. Remove the media guide rack and pinion. See “2000-sheet dual input (TTM)—media guide rack and pinion removal” on page 4-230.
6. Move both media guides inward.
7. Lift the front edge of the bottom plate from the tray.
8. Remove the bottom plate (A) from the tray.
9. Remove two screws securing the bracket (B) to the tray.
10. Remove the front media guide (C).
11. Remove the e-clip securing the tray 4 media guide lock (D) to the front media guide (C).
12. Remove the tray 4 media guide lock (D).
13. Remove the spring (E).
14. Remove the tray 4 media guide lock button (F) from the tray 4 media guide lock (D).

Note: Before re-installing, ensure the tray 4 media guide lock (D) and the tray 4 media guide lock button (F) are properly installed as shown in the figure.



Previous



Next

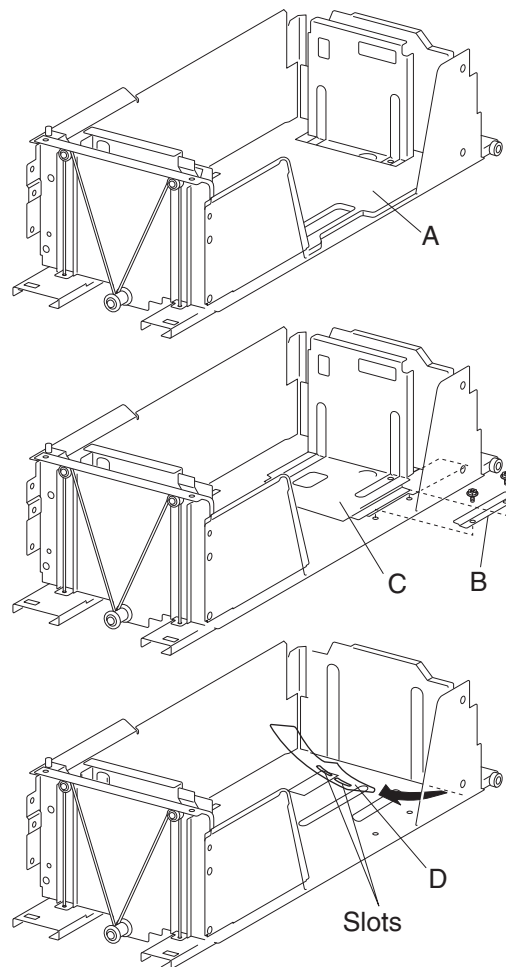


Go Back

2000-sheet dual input (TTM)—tray 4 mylar actuator removal

1. Remove the tray 4 assembly. See [“2000-sheet dual input \(TTM\)—tray 4 assembly removal” on page 4-223.](#)
2. Remove the tray 4 front cover. See [“2000-sheet dual input \(TTM\)—tray 4 front cover removal” on page 4-235.](#)
3. Remove the tray 4 rear cable assembly. See [“2000-sheet dual input \(TTM\)—tray 4 rear cables removal” on page 4-237.](#)
4. Remove the tray 4 front cable assembly. See [“2000-sheet dual input \(TTM\)—tray 4 front cables removal” on page 4-240.](#)
5. Remove the media guide rack and pinion. See [“2000-sheet dual input \(TTM\)—media guide rack and pinion removal” on page 4-230.](#)
6. Move both media guides inward.
7. Lift the front edge of the bottom plate (A) from the tray.
8. Remove the bottom plate (A) from the tray.
9. Remove two screws securing the bracket (B) to the tray.
10. Remove the rear media guide (C).
11. Remove the mylar actuator (D) by sliding it out of the tray in the direction of the arrow.

Note: Before re-installing, ensure the bosses on the rear media guide (C) are fitted into the slots on the mylar actuator (D) as shown in the figure.



Previous



Next

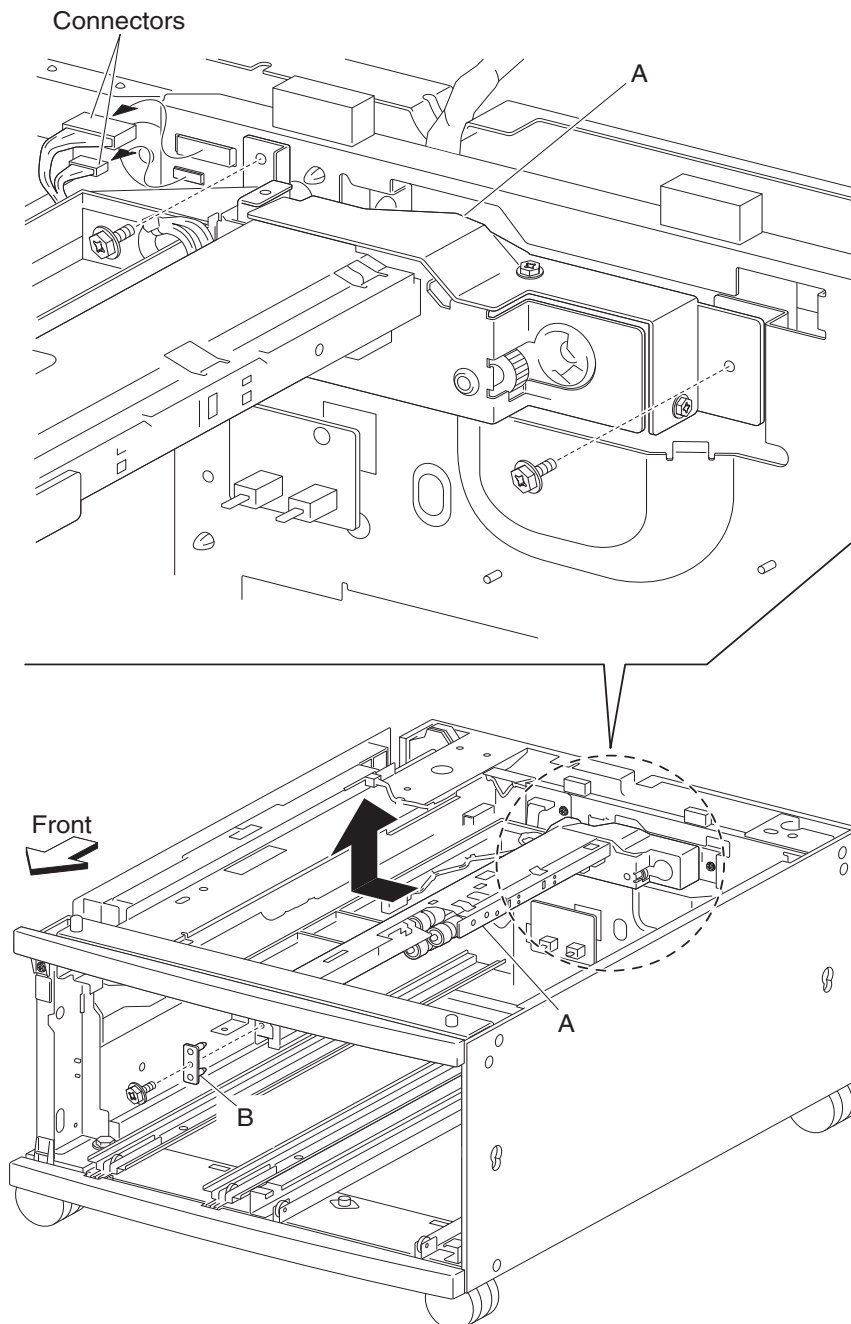


Go Back

2000-sheet dual input (TTM)—media feed unit assembly removal (tray 4)

1. Remove the tray 3 assembly. See “2000-sheet dual input (TTM)—tray 3 assembly removal” on page 4-224.
2. Remove the tray 4 assembly. See “2000-sheet dual input (TTM)—tray 4 assembly removal” on page 4-223.
3. Remove the tray 4 transport assembly. See “2000-sheet dual input (TTM)—tray 4 media transport assembly removal” on page 4-236.
4. Disconnect the two connectors from the media feed unit assembly (A).
5. Remove two screws securing the media feed unit assembly (A).

Note: Removing the media tray 1 and media tray 2 in the printer makes removing the media feed unit assembly (A) rear screws easier.



Previous

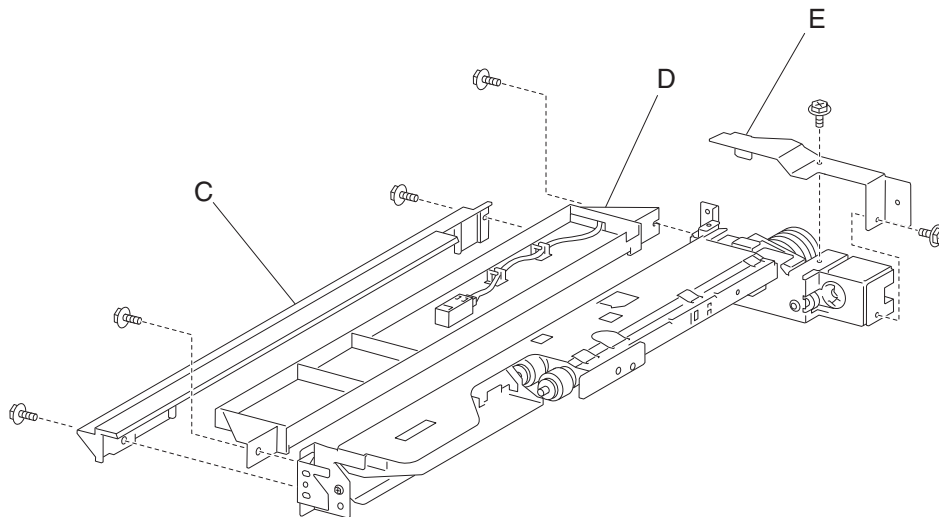


Next



Go Back

6. Remove one screw securing the front bracket (B).
7. Remove the front bracket (B).
8. Move the media feed unit assembly (A) leftward and upward in the direction of the arrow to remove it.
9. Remove the two screws securing the lower guide (C) to the media feed unit assembly (A).
10. Remove the lower guide (C).
11. Remove two screws securing the upper guide (D) to the media feed unit assembly (A).
12. Remove the upper guide (D).
13. Remove two screws securing the rear bracket (E) to the media feed unit assembly (A).
14. Remove the rear bracket (E).



Previous



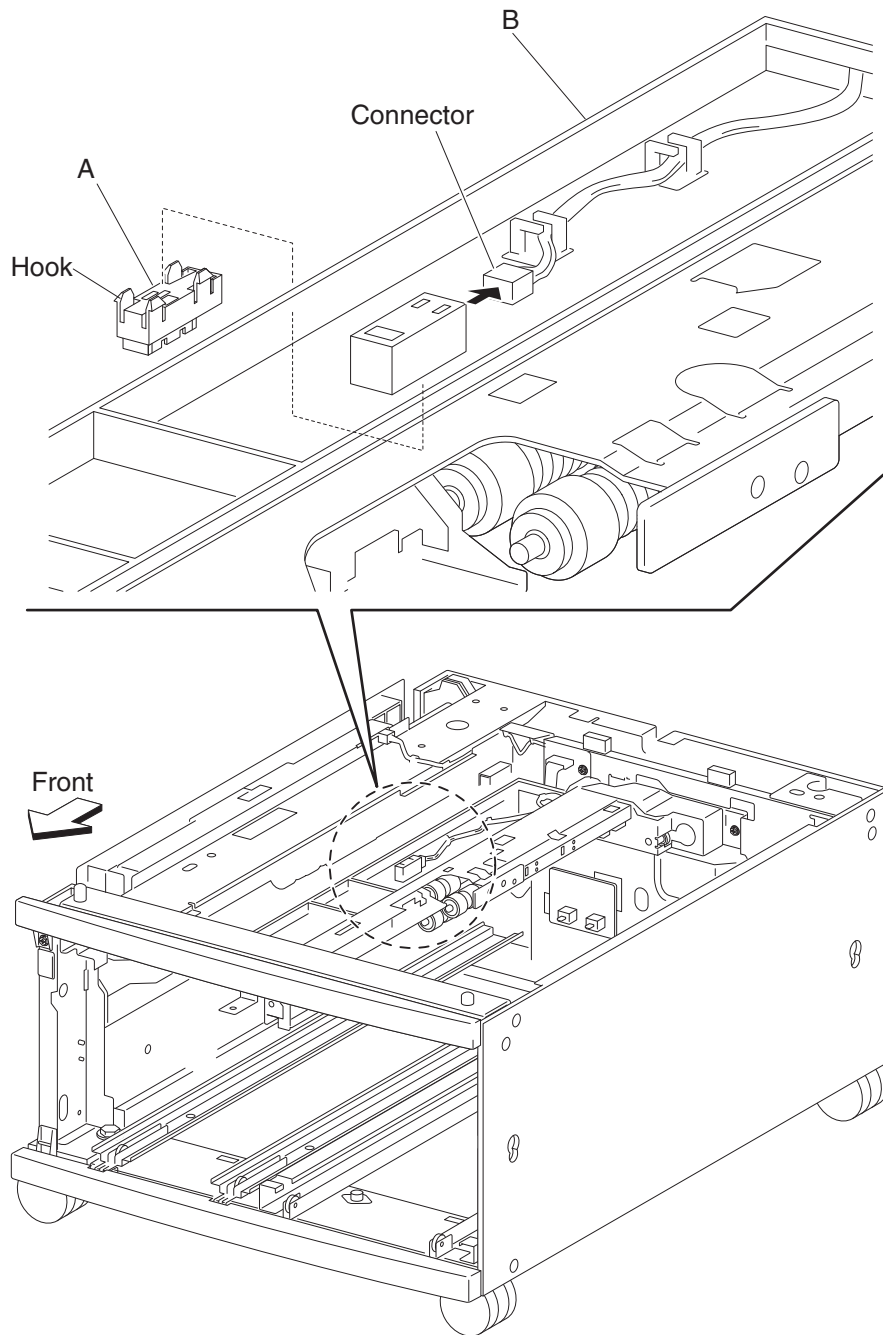
Next



Go Back

2000-sheet dual input (TTM)—sensor (tray 4 feed-out) removal

1. Remove the tray 3 assembly. See **“2000-sheet dual input (TTM)—tray 3 assembly removal”** on **page 4-224**.
2. Remove the tray 4 assembly. See **“2000-sheet dual input (TTM)—tray 4 assembly removal”** on **page 4-223**.
3. Disconnect the connector from the sensor (tray 4 feed-out) (A).
4. Release the hooks securing the sensor (tray 4 feed-out) (A) to the upper guide (B).
5. Remove the sensor (tray 4 feed-out) (A).



Previous



Next

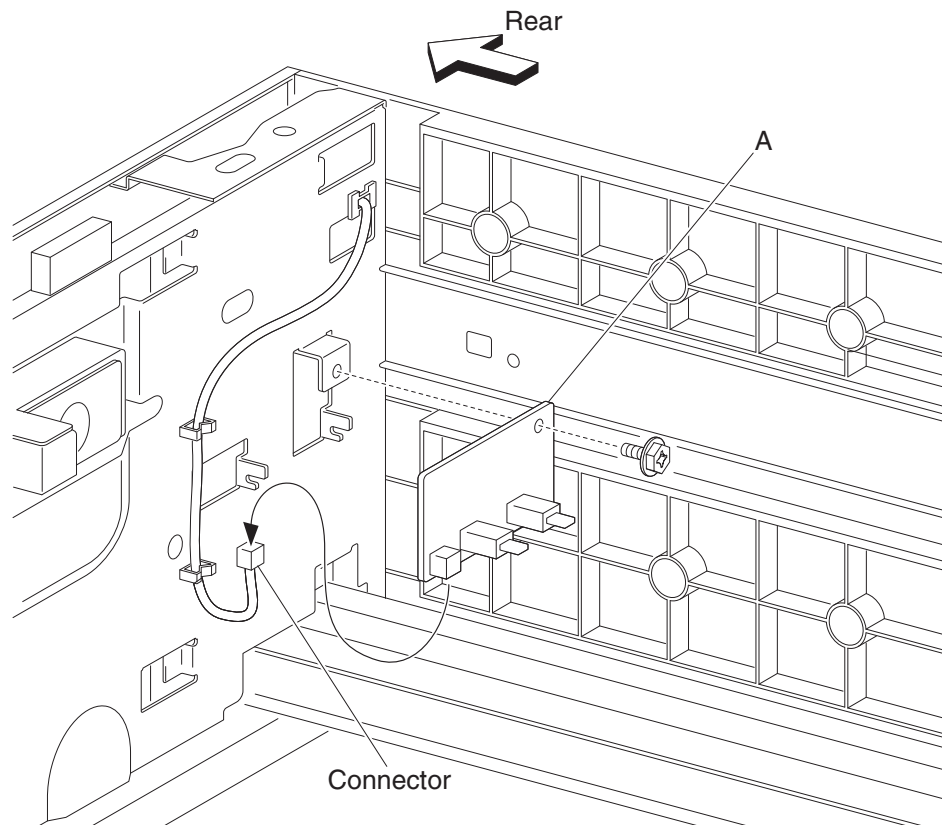


Go Back

2000-sheet dual input (TTM)—switch (TTM media size) removal

Note: This removal procedure may be applied to tray 3 and tray 4.

1. Remove the tray 3 assembly See (“2000-sheet dual input (TTM)—tray 3 assembly removal” on page 4-224) or tray 4 assembly (“2000-sheet dual input (TTM)—tray 4 assembly removal” on page 4-223).
2. Disconnect the connector from the switch (TTM media size) (A).
3. Remove one screw securing the switch (TTM media size) (A).
4. Remove the switch (TTM media size) (A).



Previous



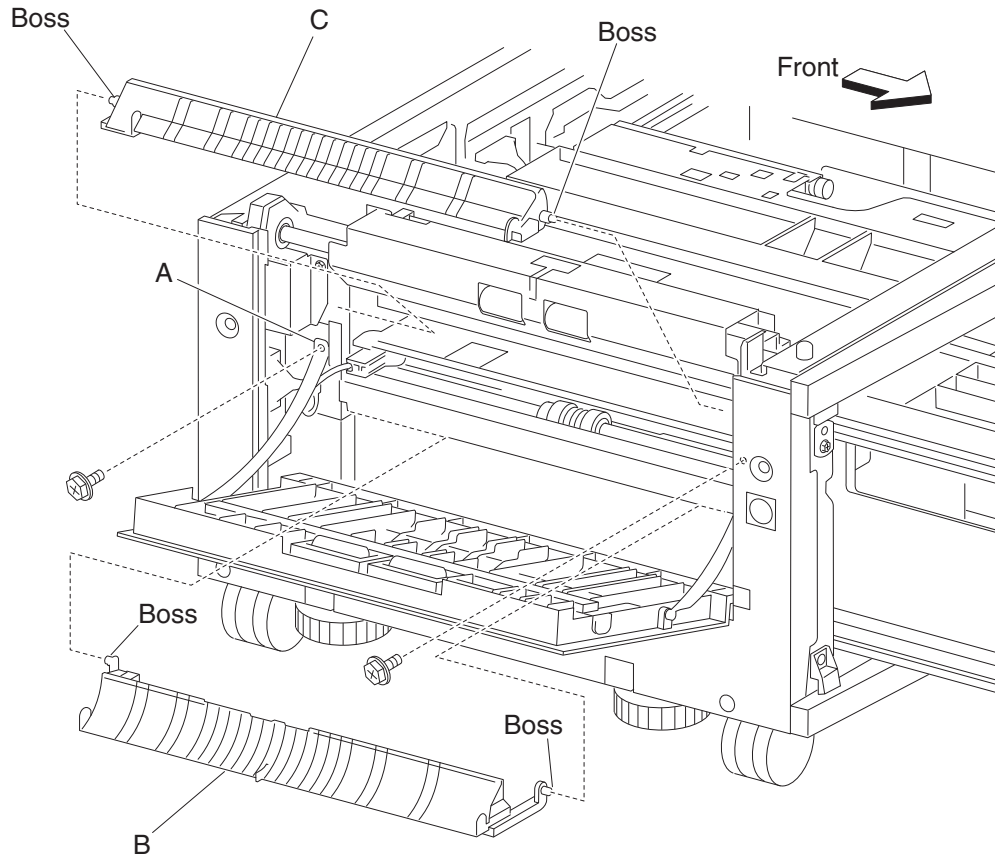
Next



Go Back

2000-sheet dual input (TTM)—media feed unit assembly removal (tray 3)

1. Pull out the tray 3 assembly.
2. Pull out the tray 4 assembly.
3. Open the 2TM/TTM left door assembly.
4. Remove one screw securing the 2TM/TTM left door support strap (A).
5. Release the bosses on both sides securing the vertical turn guide (B).
6. Remove the vertical turn guide (B).
7. Release the bosses on both sides securing the upper vertical turn guide (C).
8. Remove the upper vertical turn guide (C).



Previous



Next



Go Back

- 9. Release the harness from the clamp.
- 10. Disconnect the connector from the machine.

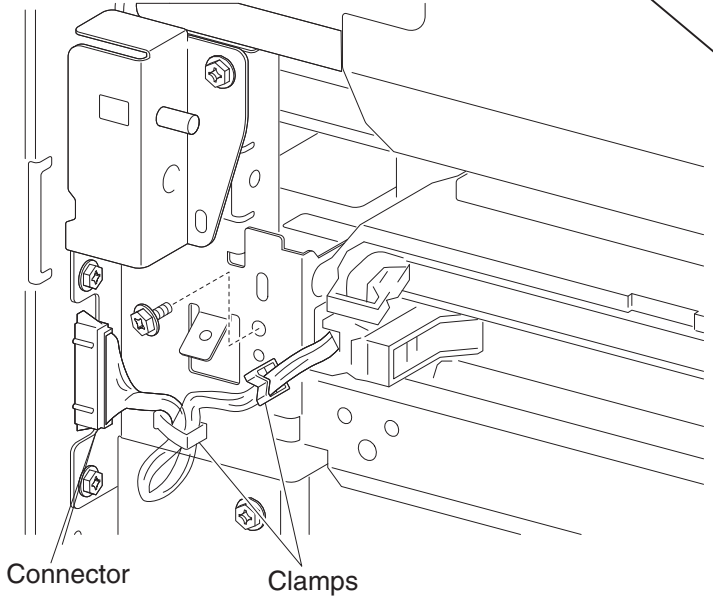
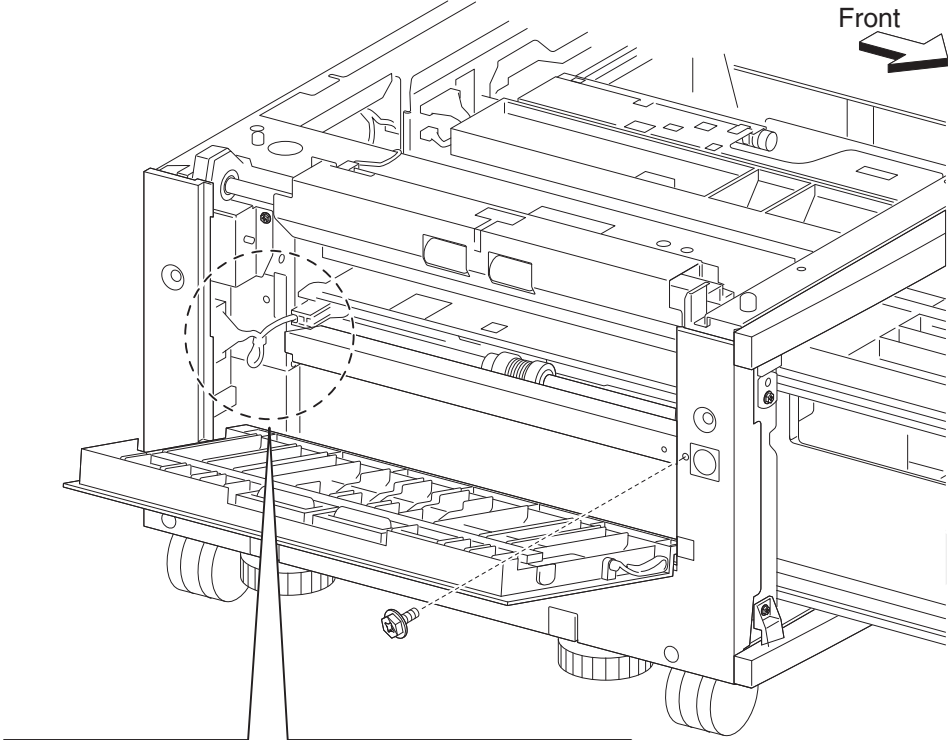
Previous



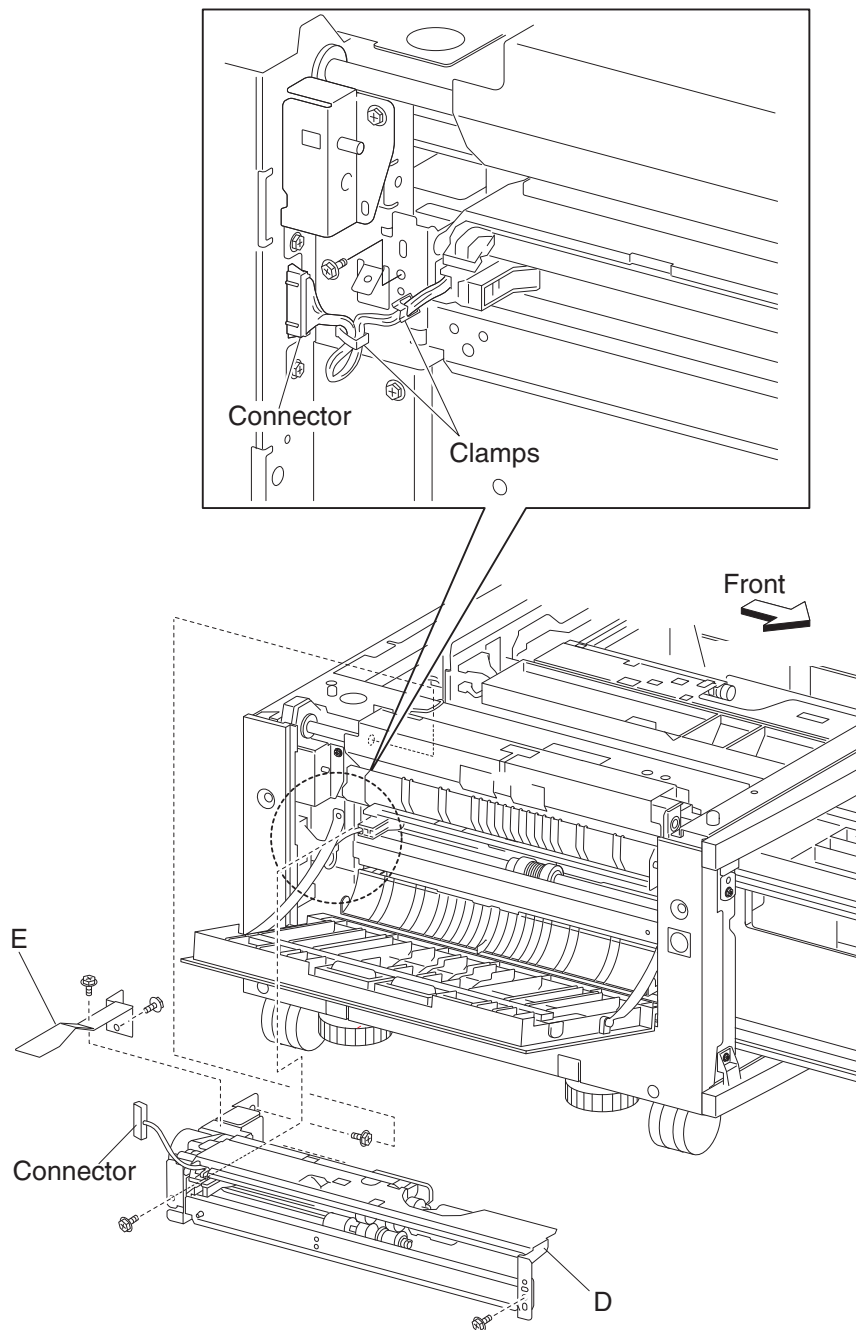
Next



Go Back



11. Remove three screws securing the media feed unit assembly (D).
12. Remove the media feed unit assembly (D) by pulling outward.
13. Remove two screws securing the rear bracket (E) to the media feed unit assembly (D).
14. Remove the rear bracket (E).



Previous



Next



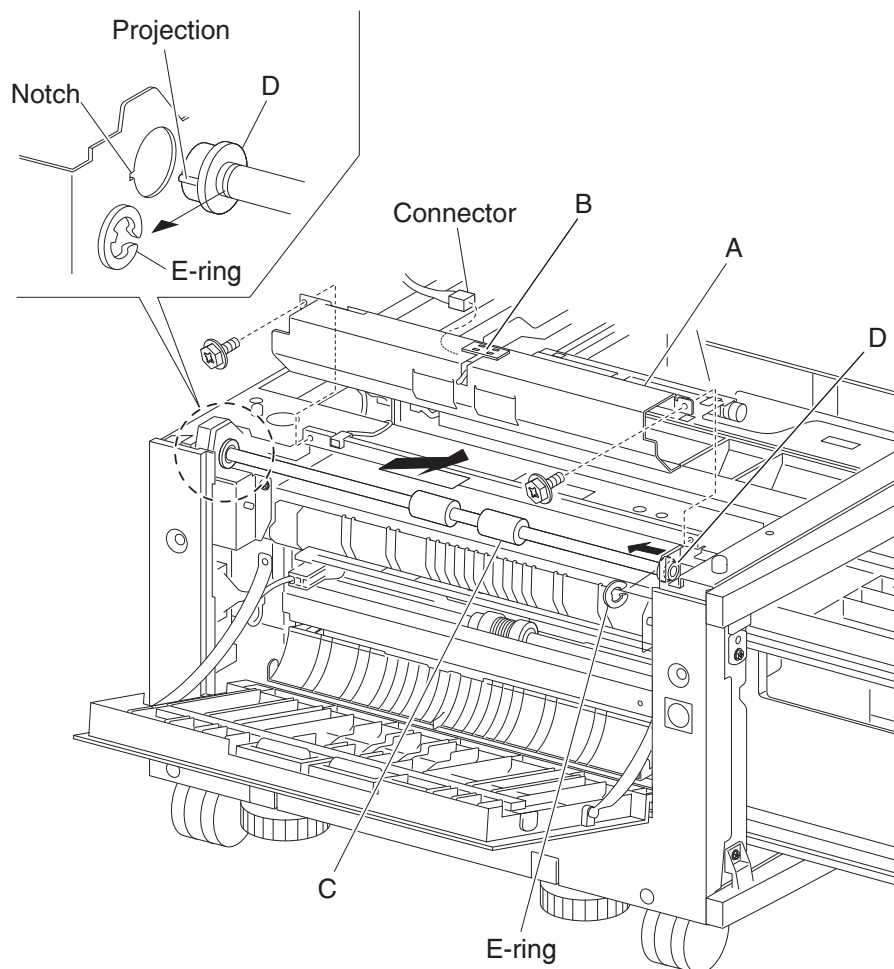
Go Back

2000-sheet dual input (TTM)—2TM/TTM media transport roll assembly removal

1. Open the left door assembly.
2. Remove two screws securing the bracket (A).
3. Disconnect the connector to the sensor (tray 3 feed-out) (B).
4. Remove the bracket (A).
5. Remove the large e-clip on the left securing the 2TM/TTM media transport roll assembly (C).
6. Slide the bushing (D) to the right.
7. Move the 2TM/TTM media transport roll assembly (C) leftward and outward in the direction of the arrow to remove.
8. Remove the 2TM/TTM media transport roll assembly (C).

Note: One of the bushings may become detached.

Note: When removing the 2TM/TTM media transport roll assembly (C), do not touch the rubber surface.



Note: Before re-installing the 2TM/TTM media transport roll assembly (C), do not touch the rubber surface.

Previous



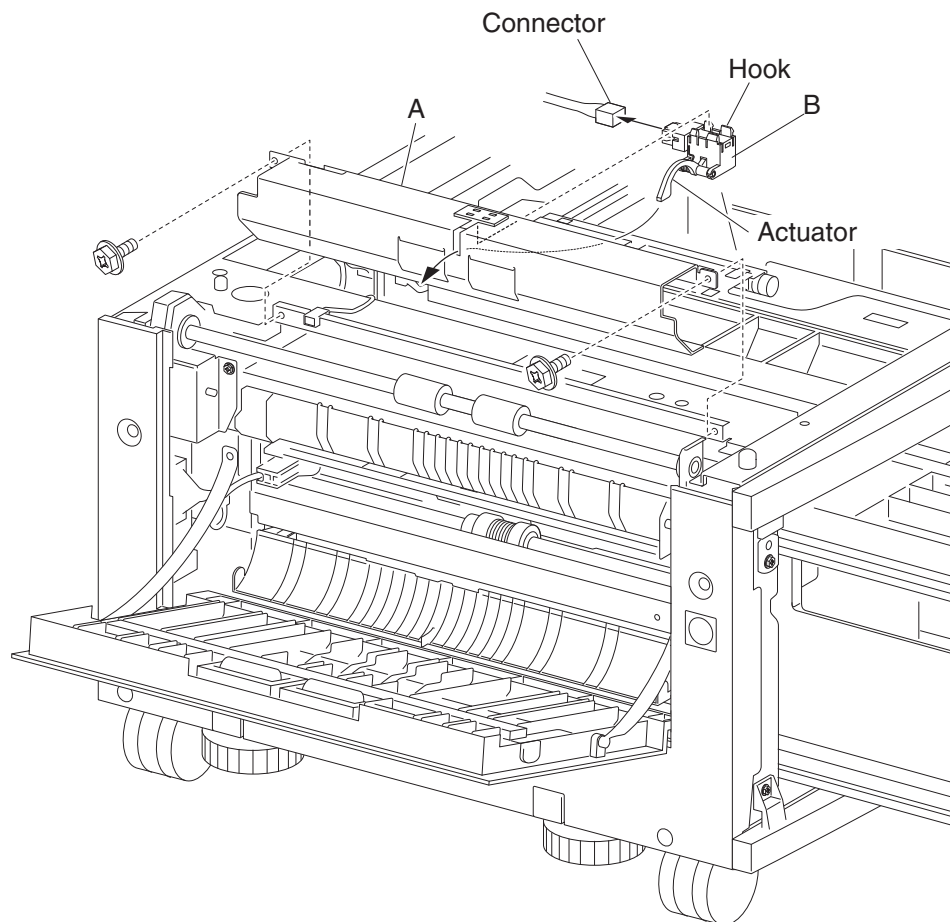
Next



Go Back

2000-sheet dual input (TTM)—sensor (tray 3 feed-out) removal

1. Open the left door assembly.
2. Remove two screws securing the bracket (A).
3. Disconnect the connector to the sensor (tray 3 feed-out) (B).
4. Remove the bracket (A).
5. Release the hooks securing the sensor (tray 3 feed-out) (B) to the bracket (A).
6. Remove the sensor (tray 3 feed-out) (B).



Previous



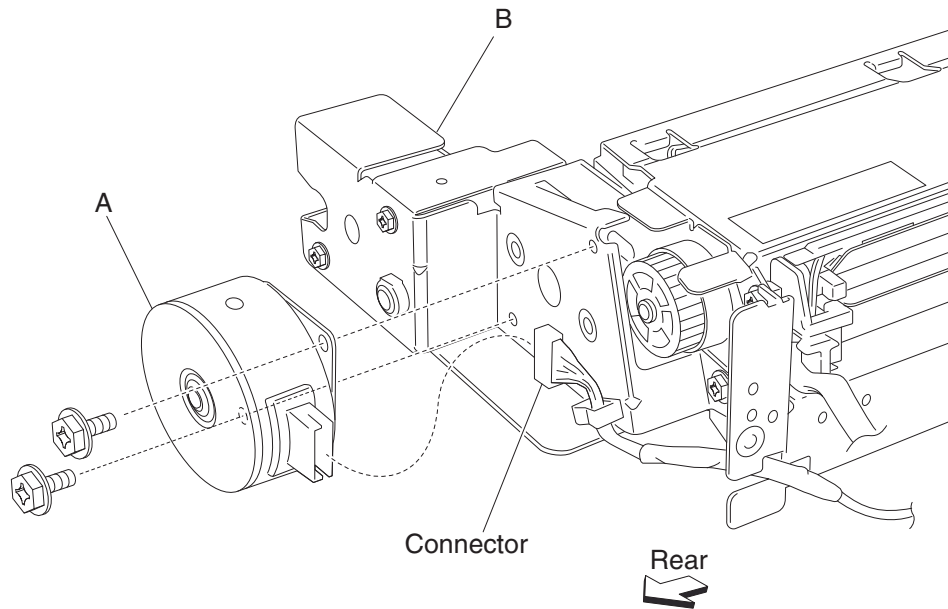
Next



Go Back

2000-sheet dual input (TTM)—media feed lift motor removal

1. Remove the media feed unit assembly. See **“2000-sheet dual input (TTM)—media feed unit assembly removal (tray 3)”** on page 4-250 or **“2000-sheet dual input (TTM)—media feed unit assembly removal (tray 4)”** on page 4-246.
2. Disconnect the harness from the media feed lift motor (A).
3. Remove the two screws securing the media feed lift motor to the media feed unit assembly (B).
4. Remove the media feed lift motor (B).



Previous



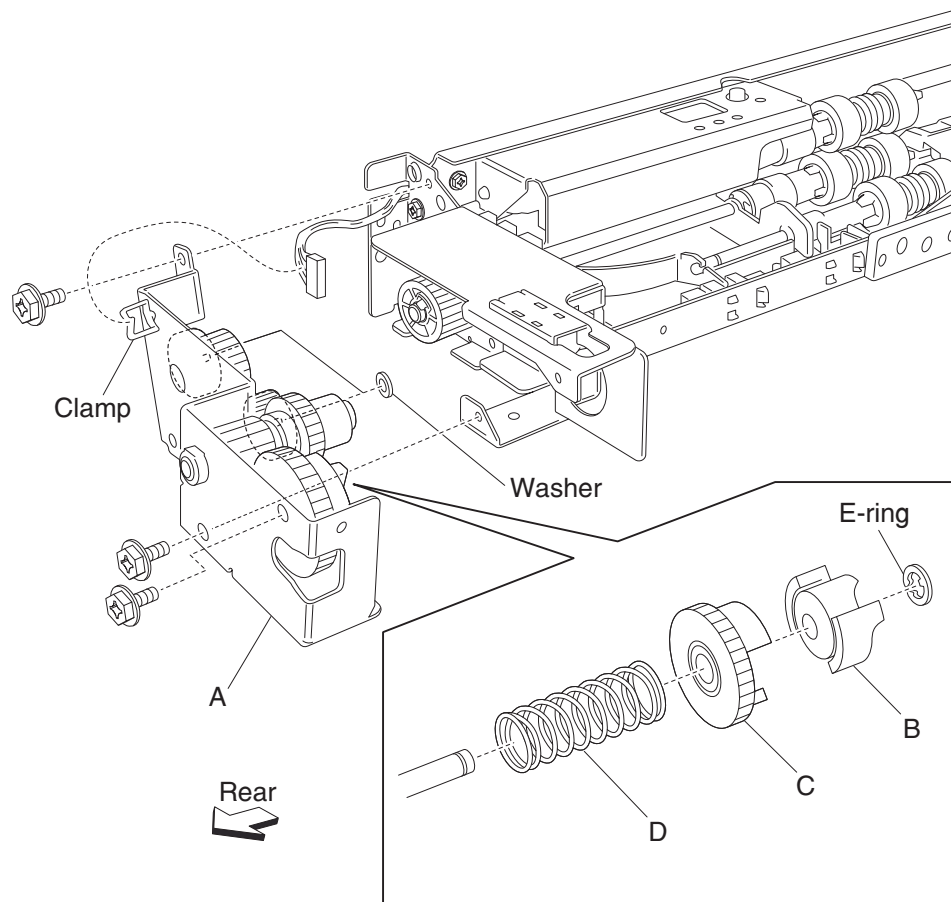
Next



Go Back

2000-sheet dual input (TTM)—lift coupling assembly removal

1. Remove the media feed unit assembly. See **“2000-sheet dual input (TTM)—media feed unit assembly removal (tray 3)”** on page 4-250 or **“2000-sheet dual input (TTM)—media feed unit assembly removal (tray 4)”** on page 4-246.
2. Remove the harness from bracket (A).
3. Remove three screws securing bracket (A) to the media feed unit assembly.
4. Remove bracket (A).
 - Note:** The gears may become detached from bracket (A).
5. Remove the e-ring with a prying tool securing the tray lift coupling (B) to bracket (A).
6. Remove the tray lift coupling gear 31 tooth (C).
7. Remove the spring (D).



Note: Before re-installing, ensure all gears and washers attached to bracket (A) are securely installed.

Previous



Next

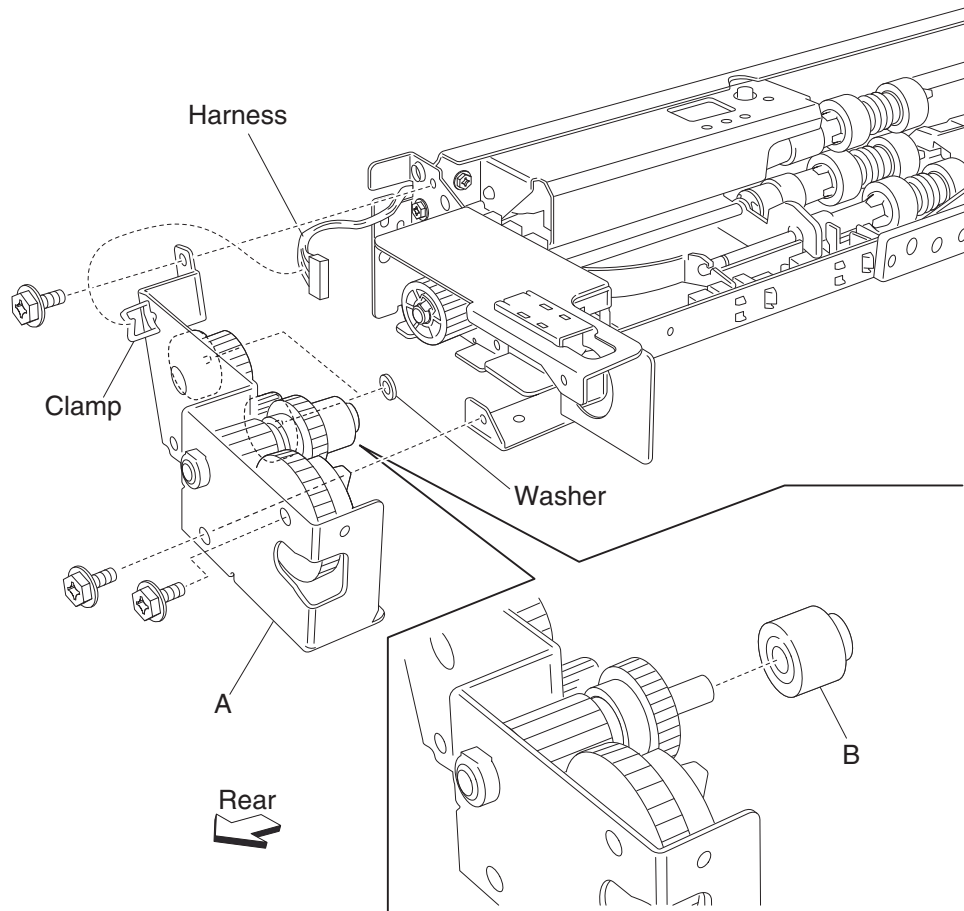


Go Back

2000-sheet dual input (TTM)—one-way clutch / gear assembly removal

1. Remove the media feed unit assembly. See **“2000-sheet dual input (TTM)—media feed unit assembly removal (tray 3)” on page 4-250** or **“2000-sheet dual input (TTM)—media feed unit assembly removal (tray 4)” on page 4-246**.
2. Remove the harness from the bracket (A).
3. Remove the three screws securing the bracket (A) to the media feed unit assembly.
4. Remove the bracket (A).

Note: The gears may become detached from the bracket (A).
5. Remove the tray lift one-way clutch (B).



Previous

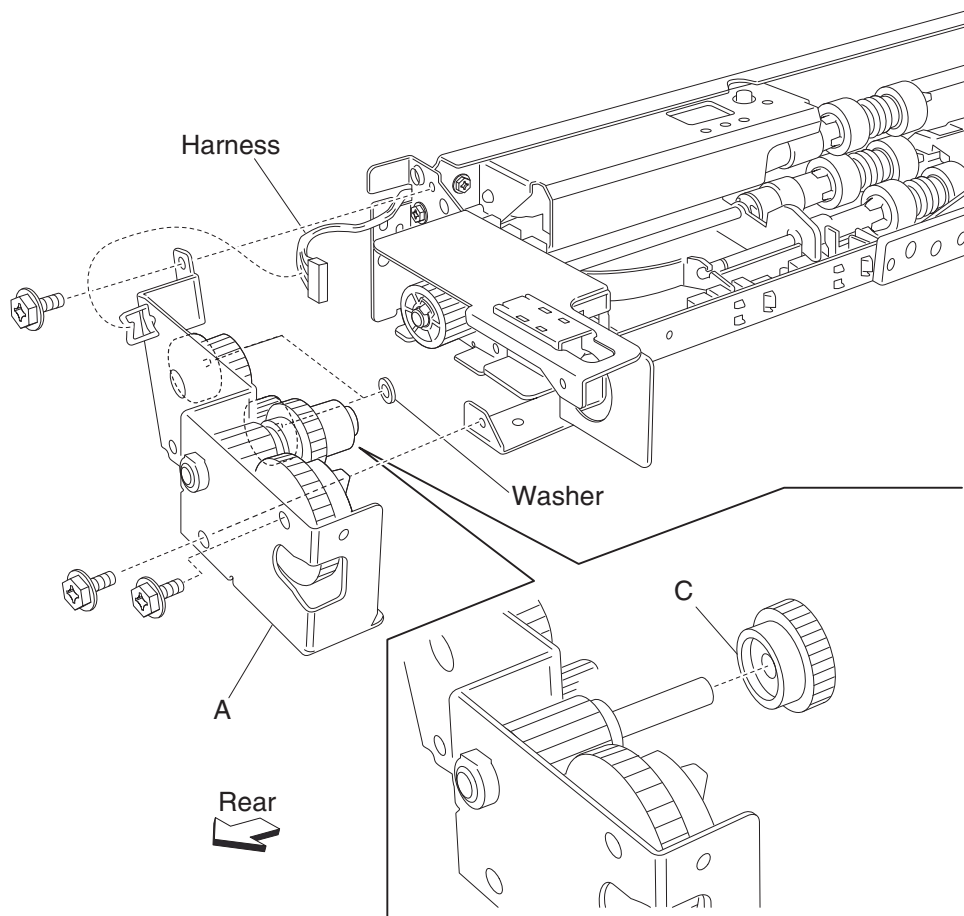


Next



Go Back

6. Remove the tray lift one-way gear 24 tooth (C).



Previous



Next

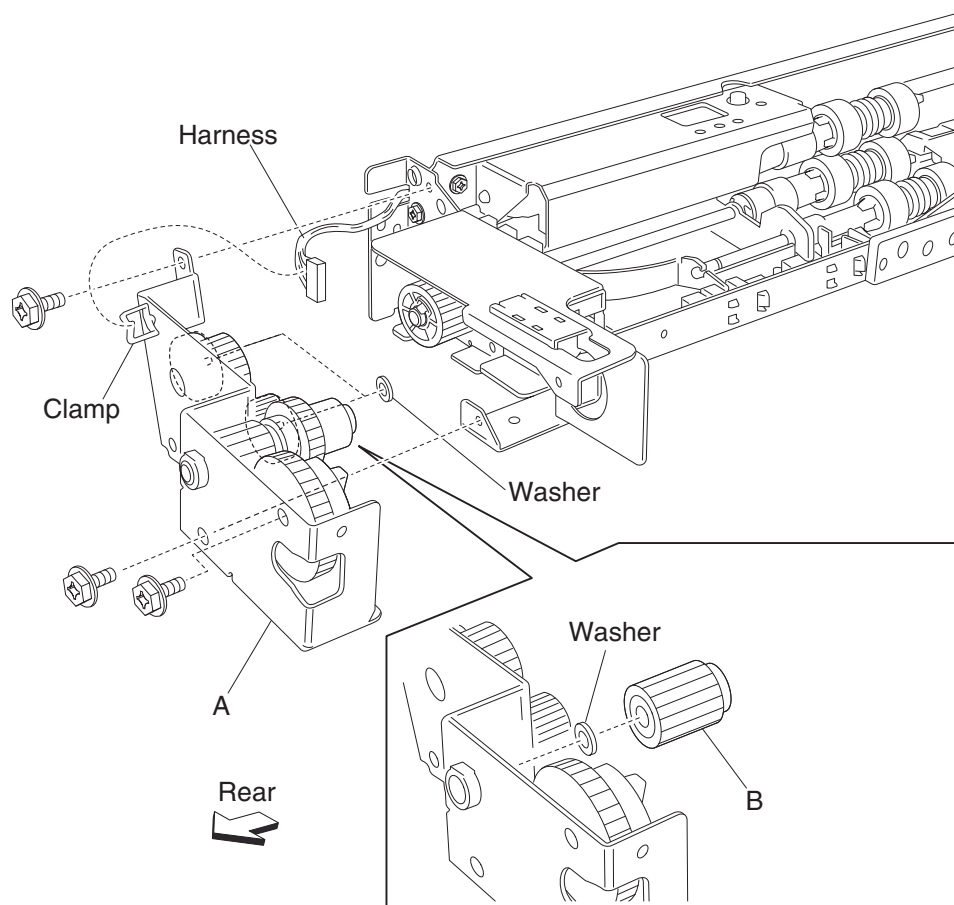


Go Back

Note: Before re-installing, ensure all gears and washers are securely attached to the bracket (A).

2000-sheet dual input (TTM)—media feed unit drive gear 13 tooth removal

1. Remove the media feed unit assembly. See **“2000-sheet dual input (TTM)—media feed unit assembly removal (tray 3)” on page 4-250** or **“2000-sheet dual input (TTM)—media feed unit assembly removal (tray 4)” on page 4-246**.
2. Remove the harness from the bracket (A).
3. Remove the three screws securing the bracket (A) to the media feed unit assembly.
4. Remove the bracket (A).
Note: Gears may become detached from the bracket (A).
5. Remove the tray lift one-way clutch. See **“2000-sheet dual input (TTM)—feed roll one-way clutch removal” on page 4-267**.
6. Remove the tray lift one-way gear 24 tooth. See **“2000-sheet dual input (TTM)—one-way 22 tooth removal” on page 4-268**.
7. Remove the media feed unit drive gear - 13 tooth (B).



Note: Before re-installing, ensure all gears and washers are securely attached to the bracket (A).

Previous



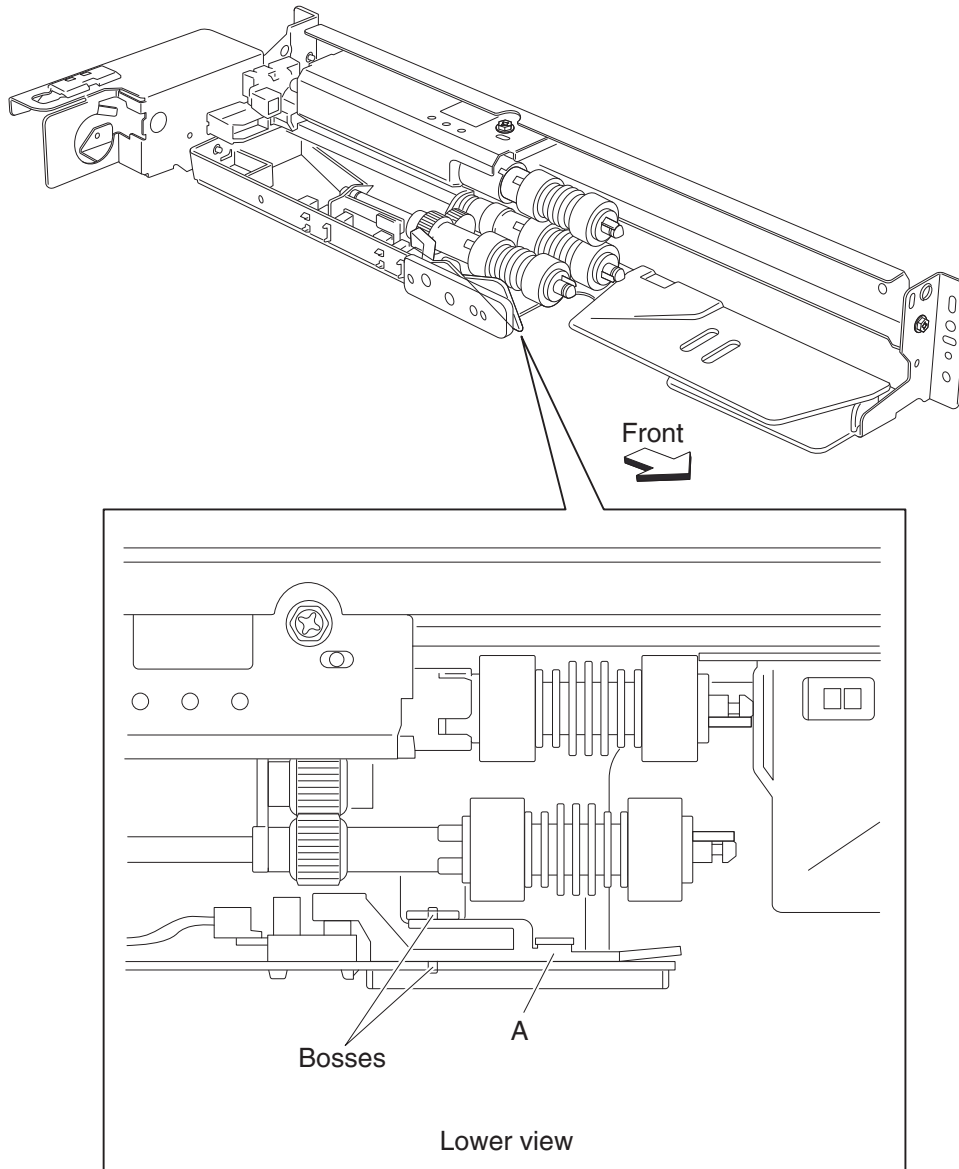
Next



Go Back

2000-sheet dual input (TTM)—media out actuator removal

1. Remove the media feed unit assembly. See **“2000-sheet dual input (TTM)—media feed unit assembly removal (tray 3)” on page 4-250** or **“2000-sheet dual input (TTM)—media feed unit assembly removal (tray 4)” on page 4-246**.
2. Remove the two bosses on the media out actuator (A) from the media feed unit assembly.
3. Remove the media out actuator (A).



Previous



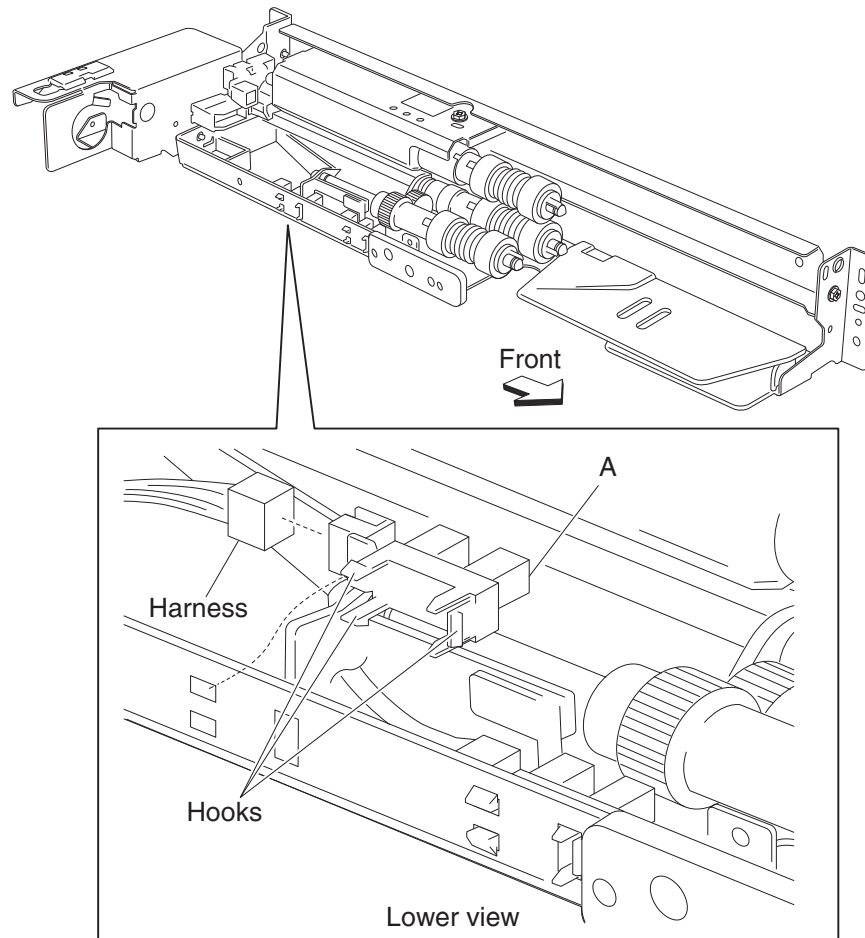
Next



Go Back

2000-sheet dual input (TTM)—sensor (media level) removal

1. Remove the media feed unit assembly. See **“2000-sheet dual input (TTM)—media feed unit assembly removal (tray 3)” on page 4-250** or **“2000-sheet dual input (TTM)—media feed unit assembly removal (tray 4)” on page 4-246**.
2. Disconnect the connector from the sensor (media level) (A).
3. Release the hooks securing the sensor (media level) (A) to the media feed unit assembly.
4. Remove the sensor (media level) (A).



Previous



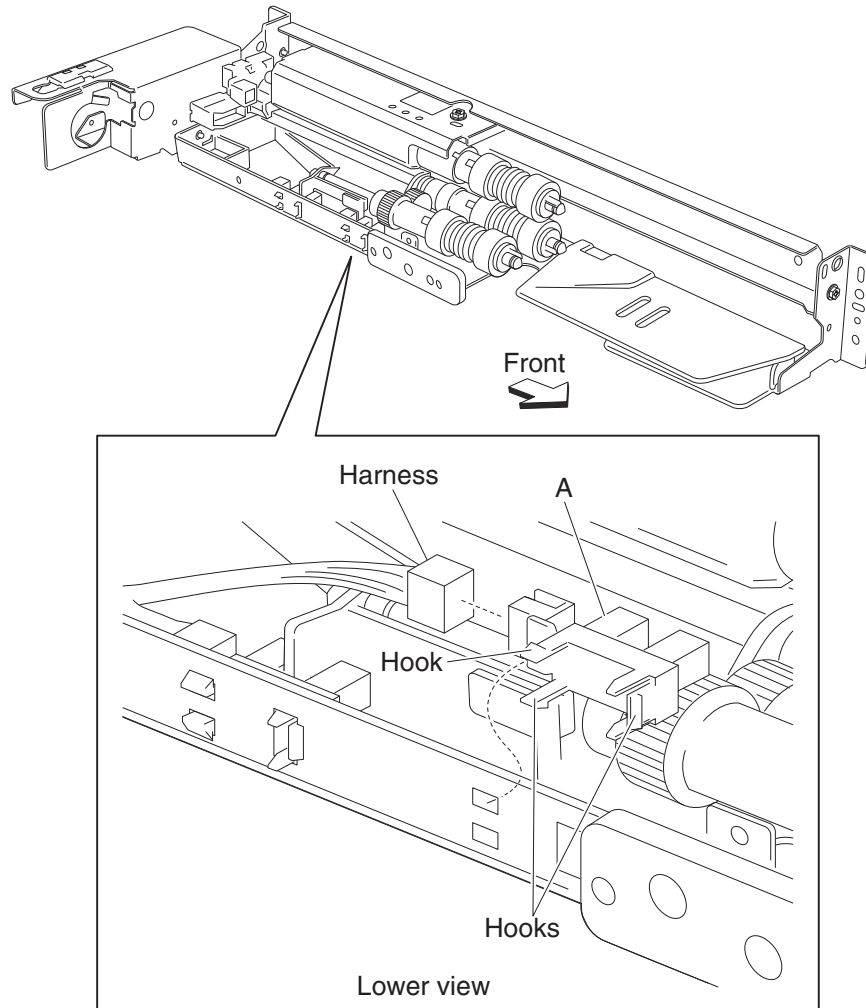
Next



Go Back

2000-sheet dual input (TTM)—sensor (media out) removal

1. Remove the media feed unit assembly. See **“2000-sheet dual input (TTM)—media feed unit assembly removal (tray 3)” on page 4-250** or **“2000-sheet dual input (TTM)—media feed unit assembly removal (tray 4)” on page 4-246**.
2. Remove the media out actuator. See **“2000-sheet dual input (TTM)—media out actuator removal” on page 4-260**.
3. Disconnect the connector from the sensor (media out) (A).
4. Release the hooks securing the sensor (media out) (A) to the media feed unit assembly.
5. Remove the sensor (media out) (A).



Previous



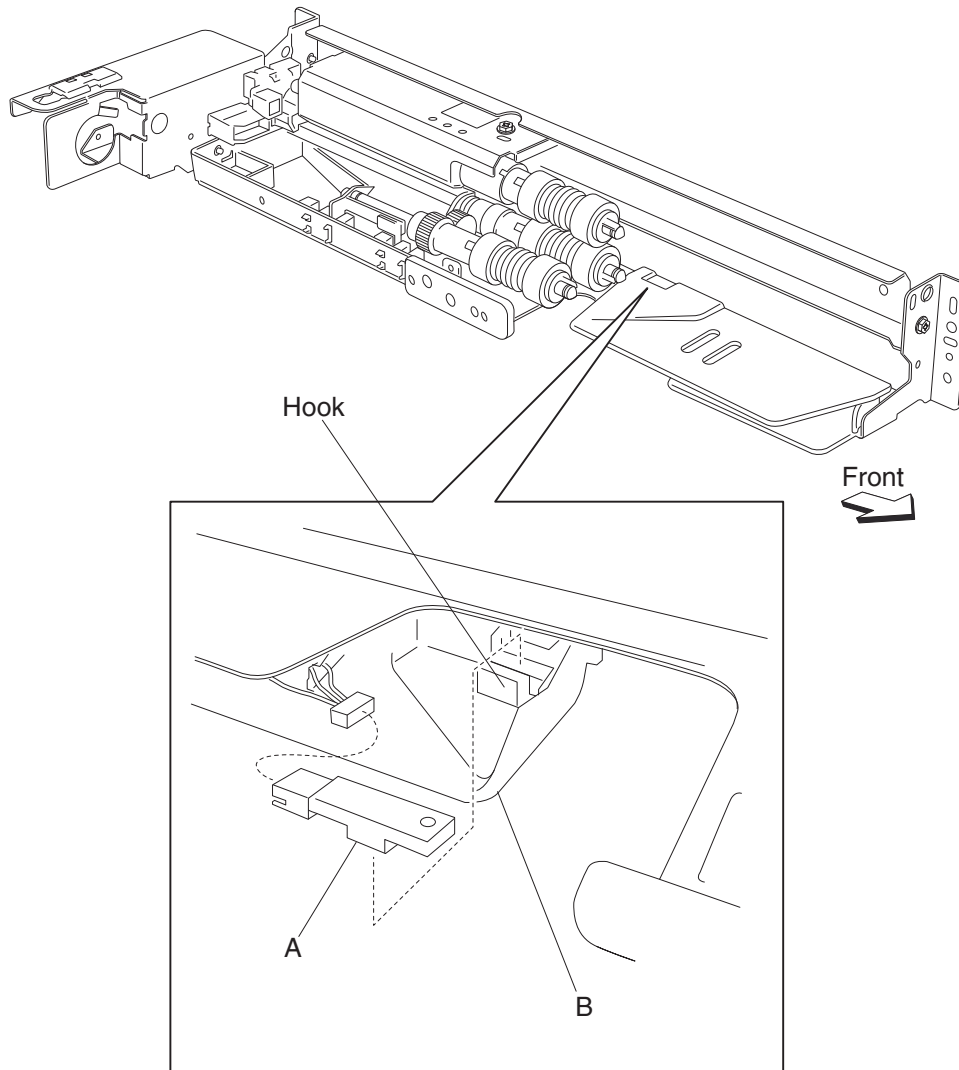
Next



Go Back

2000-sheet dual input (TTM)—sensor (pre-feed) removal

1. Remove the media feed unit assembly. See **“2000-sheet dual input (TTM)—media feed unit assembly removal (tray 3)” on page 4-250** or **“2000-sheet dual input (TTM)—media feed unit assembly removal (tray 4)” on page 4-246**.
2. Remove the sensor (pre-feed) (A) from the feed unit front guide (B).
3. Disconnect the connector from the sensor (pre-feed) (A).



Previous



Next

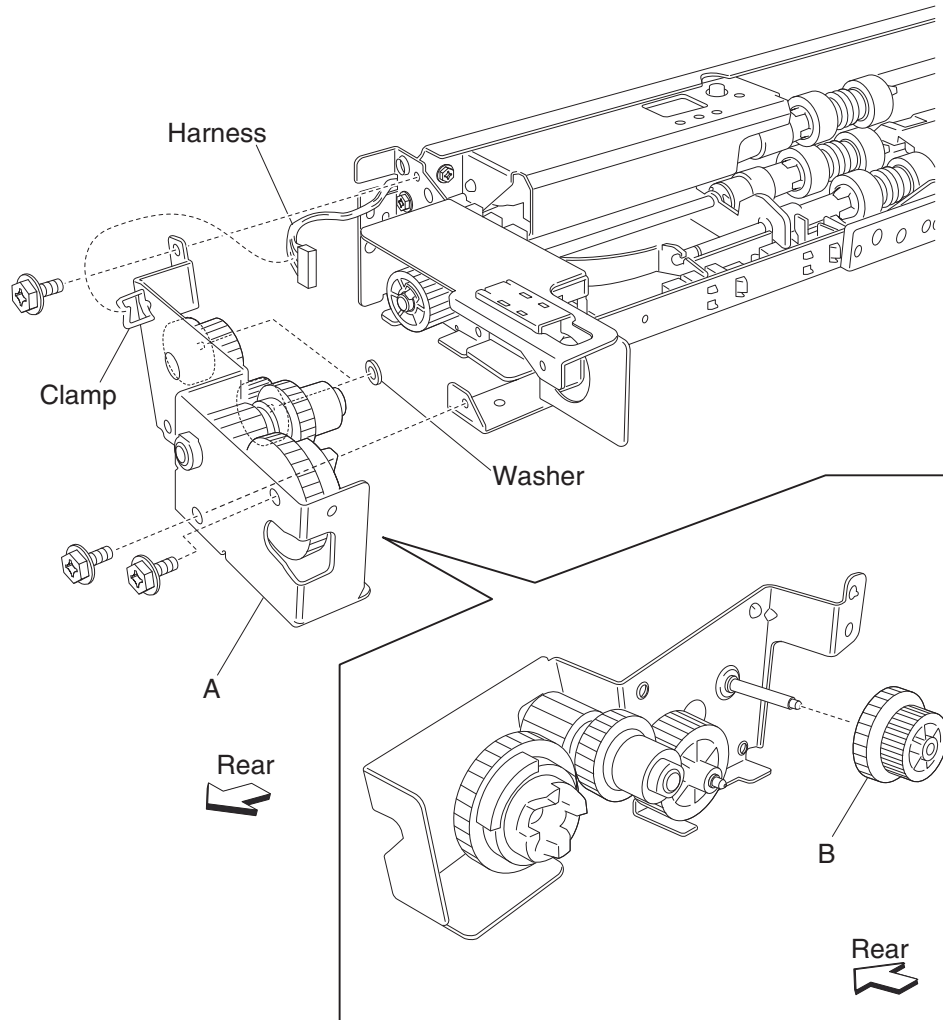


Go Back

2000-sheet dual input (TTM)—media feed unit drive gear 28 / 21 tooth removal

1. Remove the media feed unit assembly. See **“2000-sheet dual input (TTM)—media feed unit assembly removal (tray 3)” on page 4-250** or **“2000-sheet dual input (TTM)—media feed unit assembly removal (tray 4)” on page 4-246**.
2. Remove the harness from the bracket (A).
3. Remove the three screws securing the bracket (A) to the media feed unit assembly.
4. Remove the bracket (A).

Note: The gears may become detached from the bracket (A).
5. Remove the feed unit drive gear - 28 tooth / 21 tooth (B).



Note: Before re-installing, ensure all gears and washers are securely attached to the bracket (A).

Previous



Next

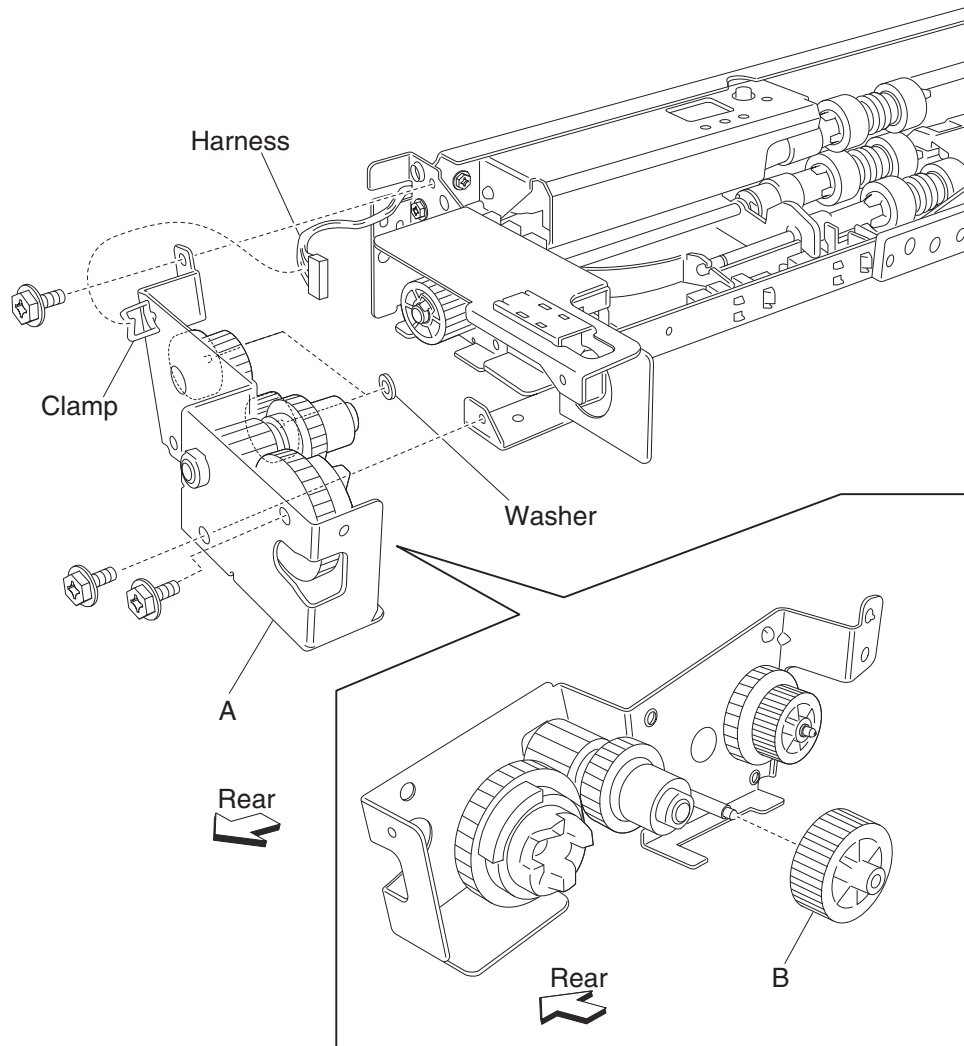


Go Back

2000-sheet dual input (TTM)—media feed unit drive gear 29 tooth removal

1. Remove the media feed unit assembly. See **“2000-sheet dual input (TTM)—media feed unit assembly removal (tray 3)” on page 4-250** or **“2000-sheet dual input (TTM)—media feed unit assembly removal (tray 4)” on page 4-246**.
2. Remove the harness from the bracket (A).
3. Remove the three screws securing the bracket (A) to the media feed unit assembly.
4. Remove the bracket (A).

Note: The gears may become detached from the bracket (A).
5. Remove the feed unit drive gear - 28 tooth / 21 tooth (B).



Note: Before re-installing, ensure all gears and washers are securely attached to the bracket (A).

Previous



Next

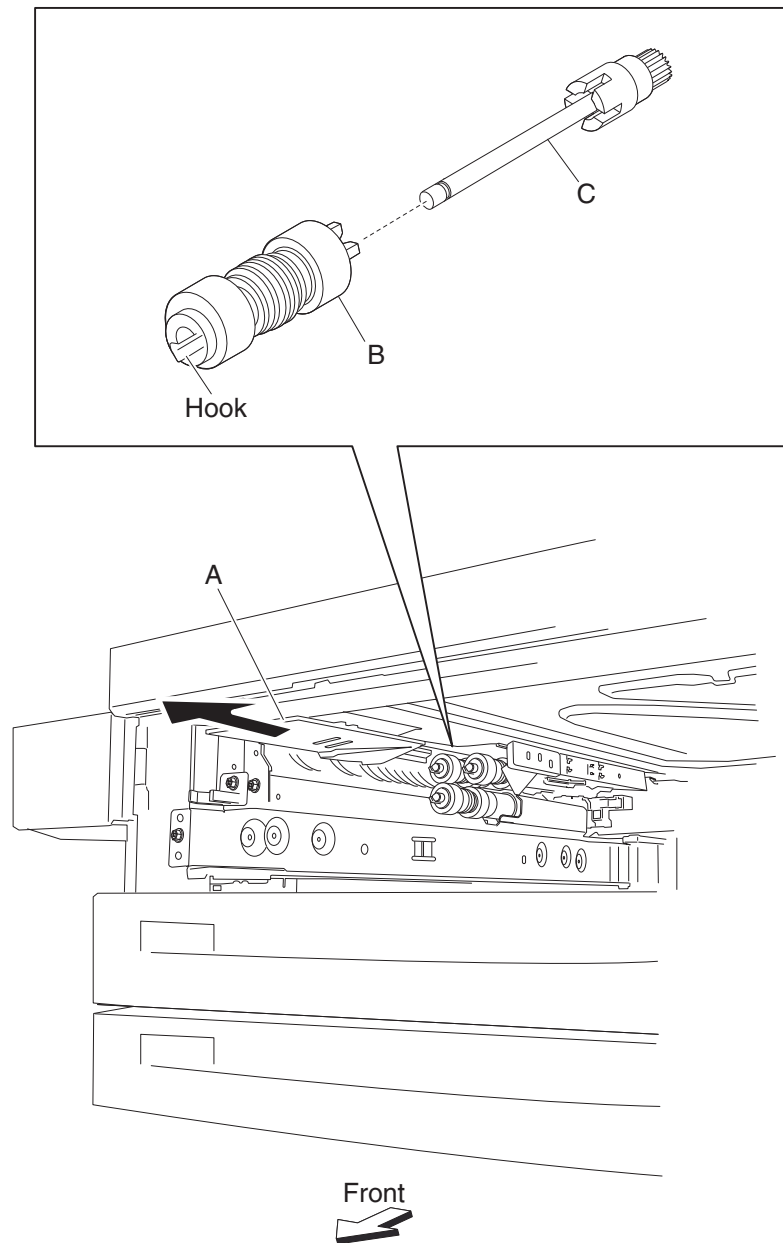


Go Back

2000-sheet dual input (TTM)—feed roll removal

1. Remove the media tray assembly.
2. Move the feed unit front guide (A) in the direction of the arrow.
3. Release the hook securing the feed roll (B) to the shaft (C).
4. Remove the feed roll (B).

Note: Do not touch the rubber surface of the feed roll (B).



Note: Before re-installing, do not touch the rubber surface of the feed roll (B).

Previous



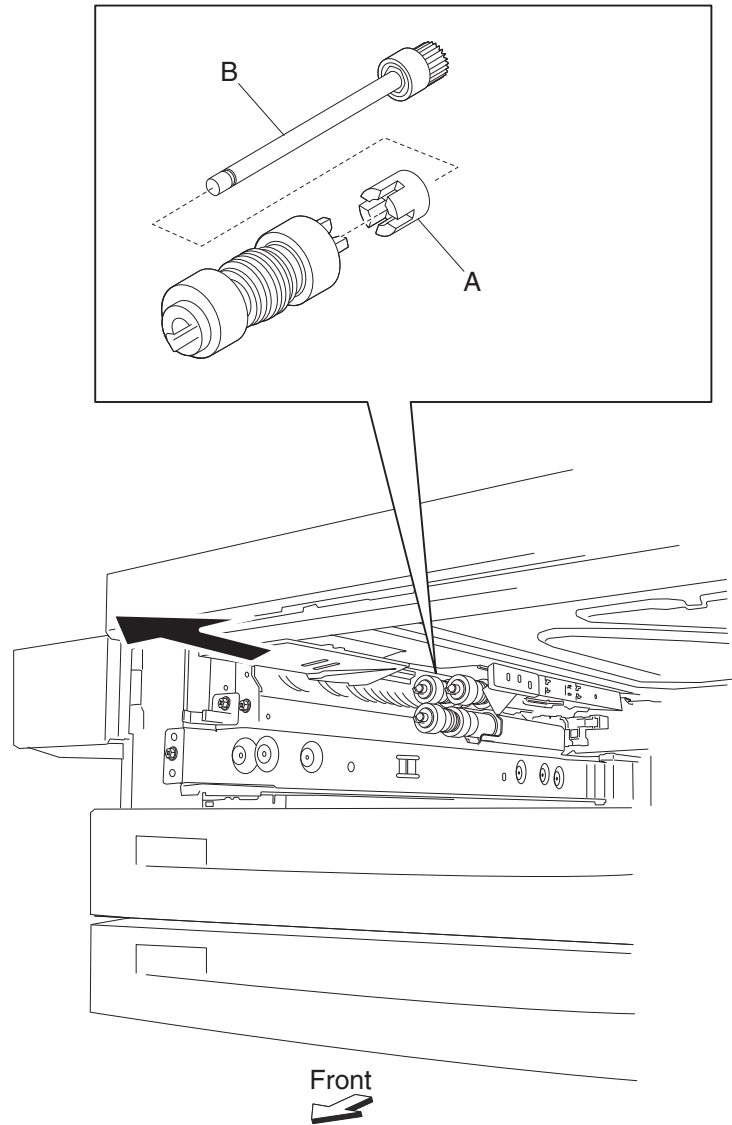
Next



Go Back

2000-sheet dual input (TTM)—feed roll one-way clutch removal

1. Remove the media tray assembly.
2. Remove the feed roll. See **“2000-sheet dual input (TTM)—feed roll removal”** on page 4-266.
3. Remove the feed roll one-way clutch (A) from the shaft (B).



Previous



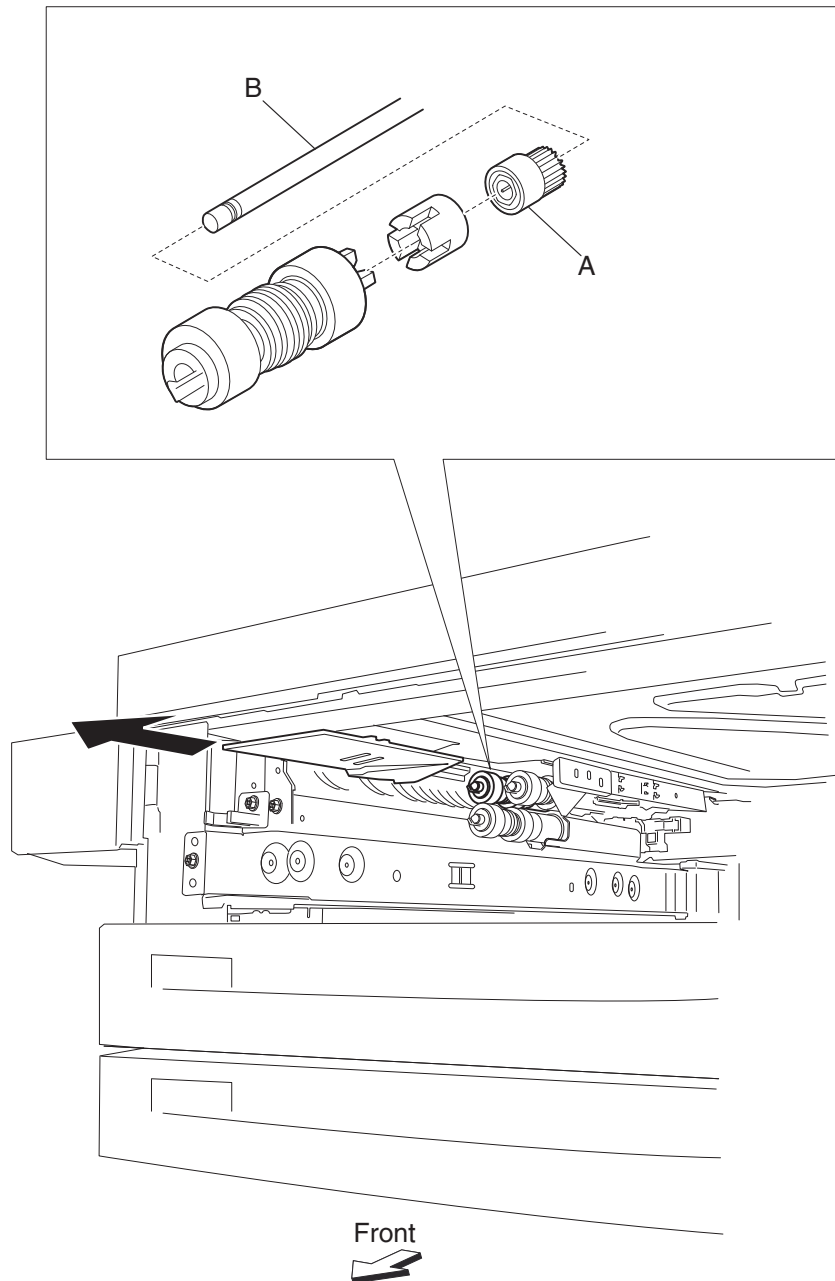
Next



Go Back

2000-sheet dual input (TTM)—one-way 22 tooth removal

1. Remove the media tray assembly.
2. Remove the feed roll. See **“2000-sheet dual input (TTM)—feed roll removal” on page 4-266.**
3. Remove the feed roll one-way clutch. See **“2000-sheet dual input (TTM)—feed roll one-way clutch removal” on page 4-267.**
4. Remove the feed roll one-way gear 22 tooth (A).



Previous



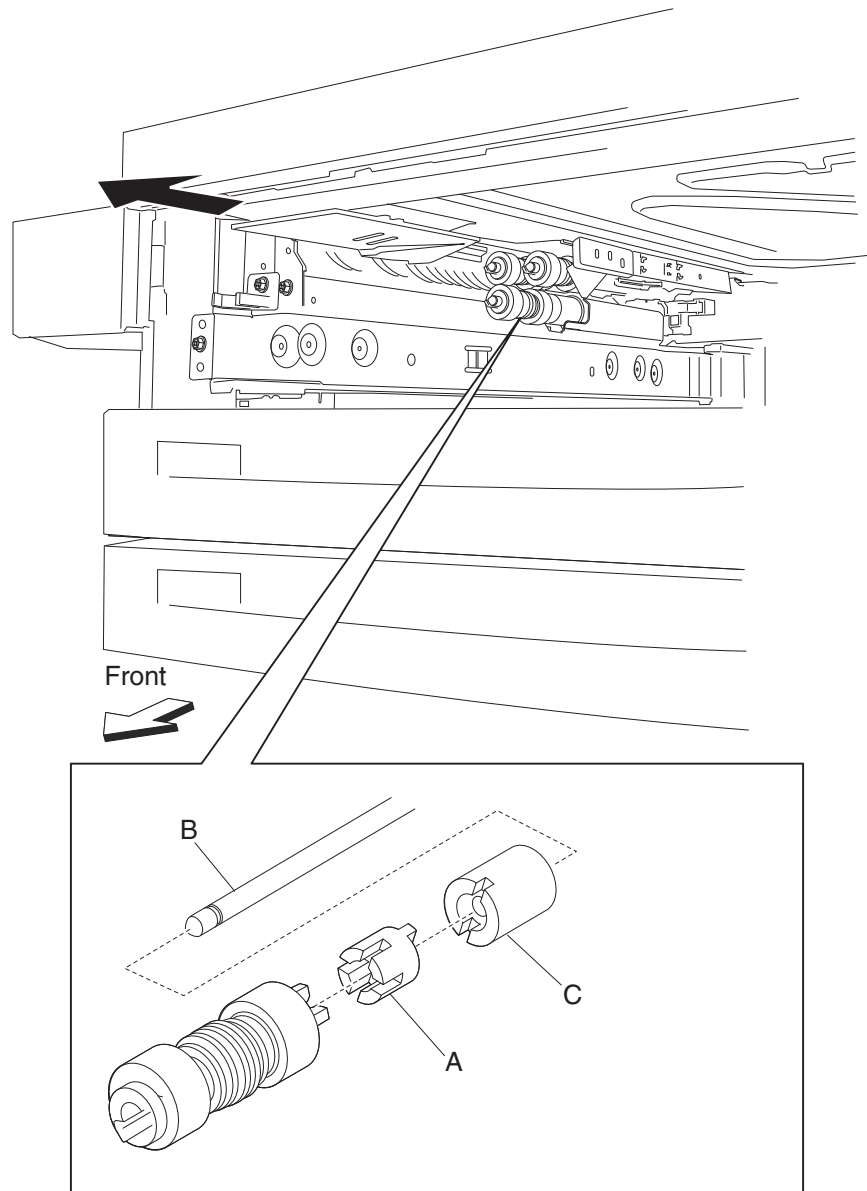
Next



Go Back

2000-sheet dual input (TTM)—separation roll one-way friction clutch removal

1. Remove the media tray assembly.
2. Remove the separation roll. See [“2000-sheet dual input \(TTM\)—separation roll removal” on page 4-270.](#)
3. Remove the separation roll spacer (A).
4. Remove the separation roll one-way friction clutch (B).



Previous



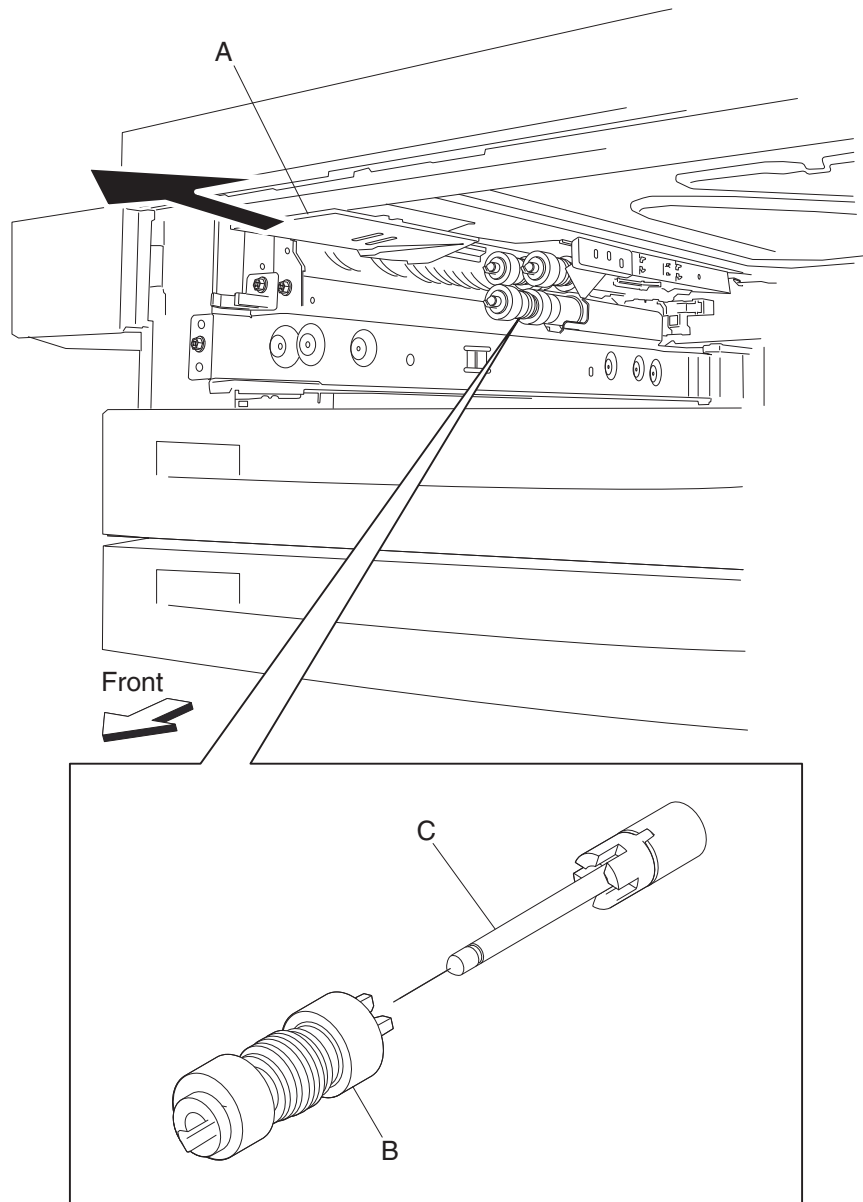
Next



Go Back

2000-sheet dual input (TTM)—separation roll removal

1. Remove the media tray assembly.
2. Move the feed unit front guide (A) in the direction of the arrow.
3. Release the hook securing the separation roll (B) to the shaft (C).



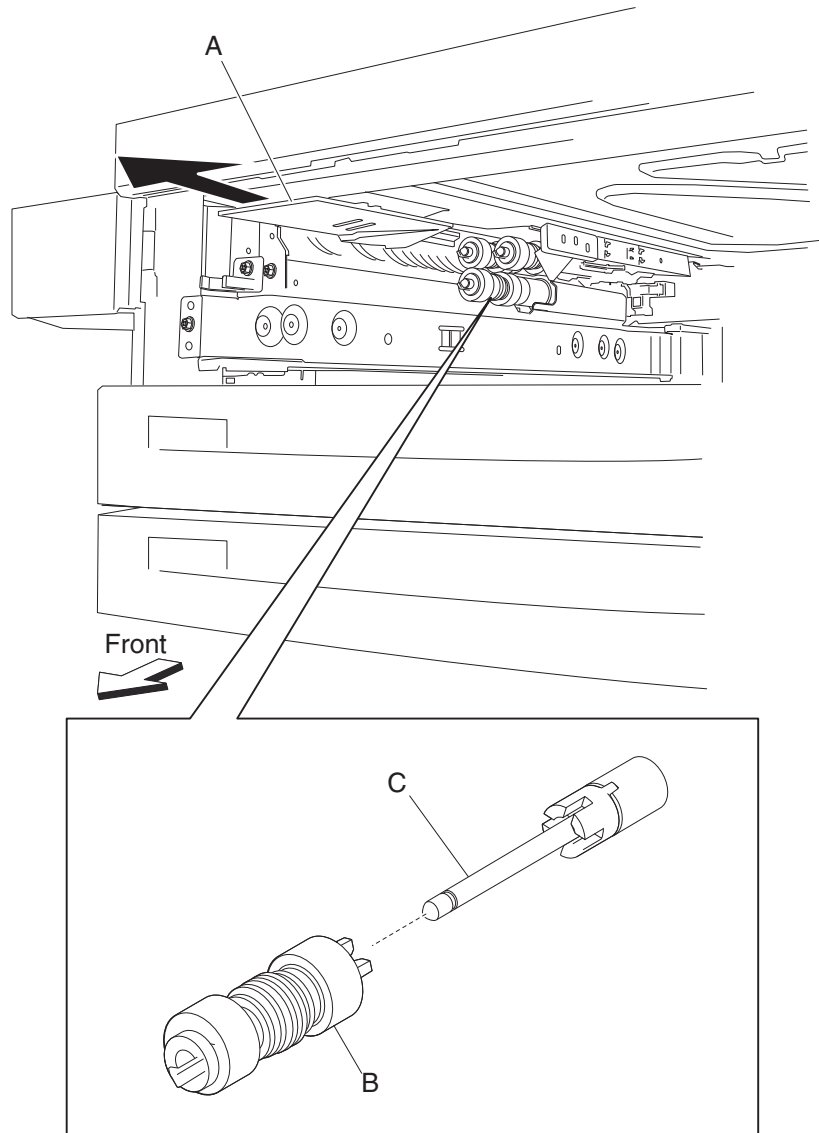
Previous



Next



Go Back

4. Remove the separation roll (B).**Note:** Do not touch the rubber surface of the feed roll (B).**Note:** Before re-installing, do not touch the rubber surface of the separation roll (B).

Previous



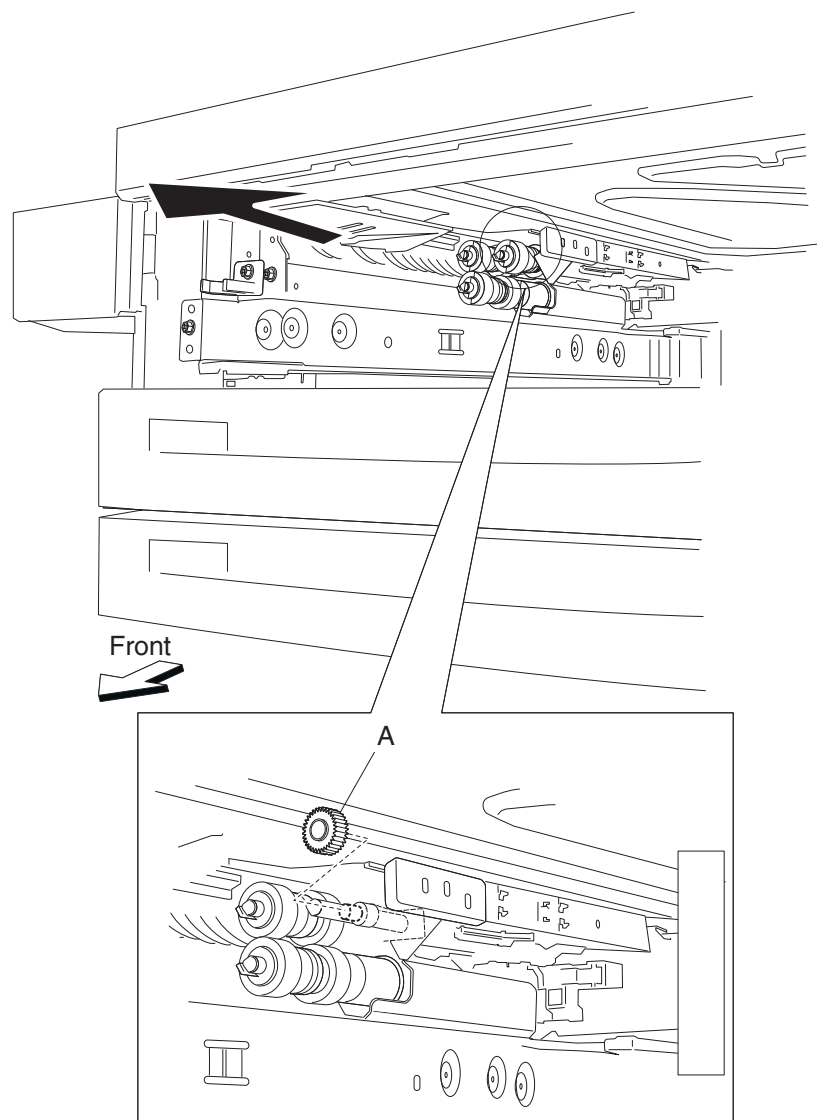
Next



Go Back

2000-sheet dual input (TTM)—pick roll idler gear 33 tooth removal

1. Remove the media tray assembly.
2. Remove the pick roll. See **“2000-sheet dual input (TTM)—pick roll removal” on page 4-273.**
3. Remove the pick roll drive gear 25 tooth. See **“2000-sheet dual input (TTM)—pick roll drive gear 25 tooth removal” on page 4-274.**
4. Remove the pick roll idler gear 33 tooth (A).



Previous



Next

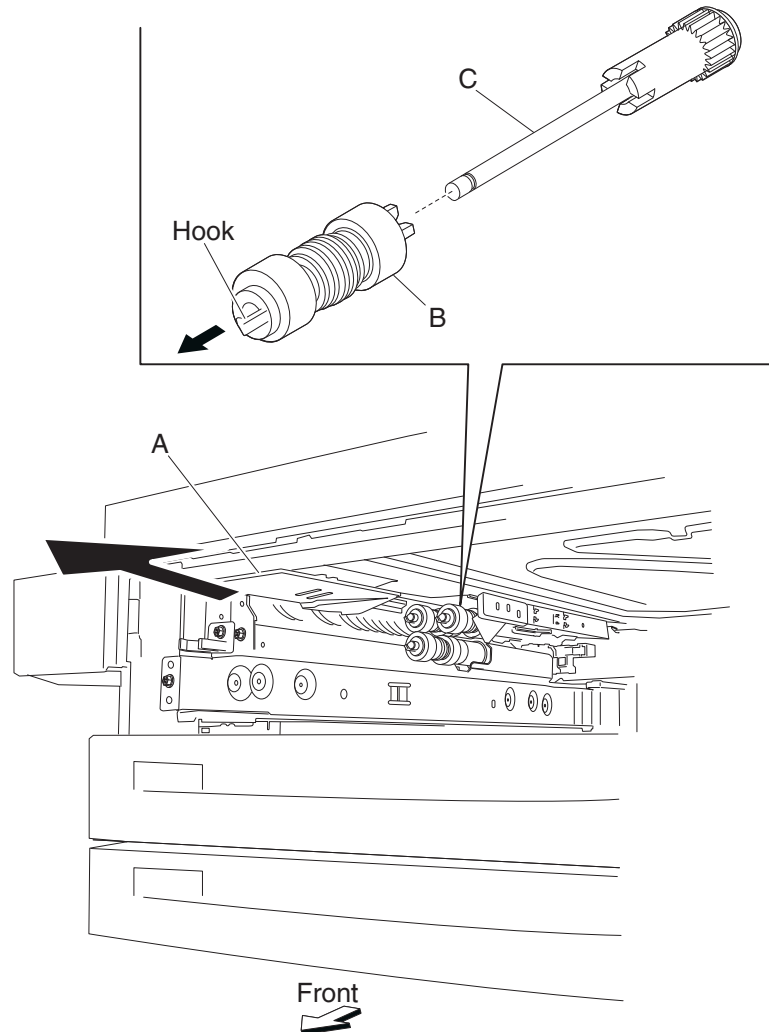


Go Back

2000-sheet dual input (TTM)—pick roll removal

1. Remove the media tray assembly.
2. Move the front guide (A) in the direction of the arrow.
3. Release the hook securing the pick roll (B) to the shaft (C).
4. Remove the pick roll (B).

Note: Do not touch the rubber surface of the feed roll (B).



Note: Before re-installing, do not touch the rubber surface of the pick roll (B).

Previous



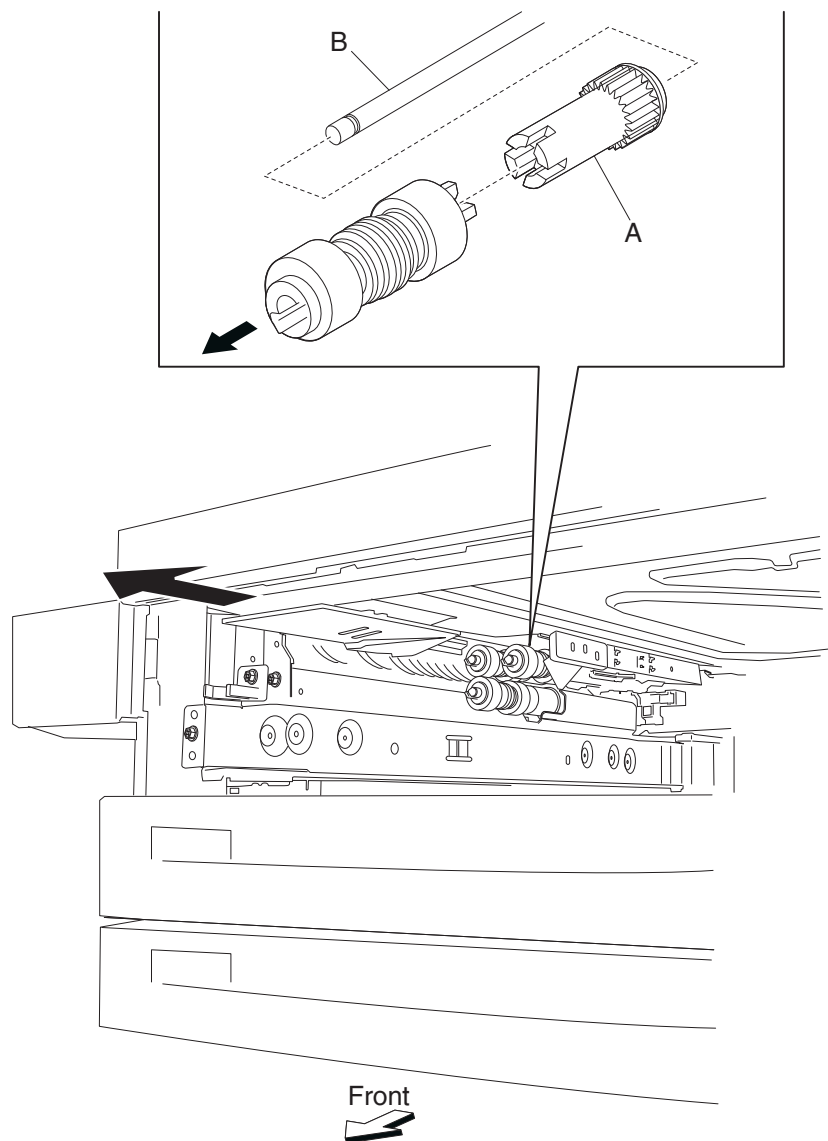
Next



Go Back

2000-sheet dual input (TTM)—pick roll drive gear 25 tooth removal

1. Remove the media tray assembly.
2. Remove the pick roll. See **“2000-sheet dual input (TTM)—pick roll removal”** on page 4-273.
3. Remove the pick roll drive gear 25 tooth (A).



Previous



Next

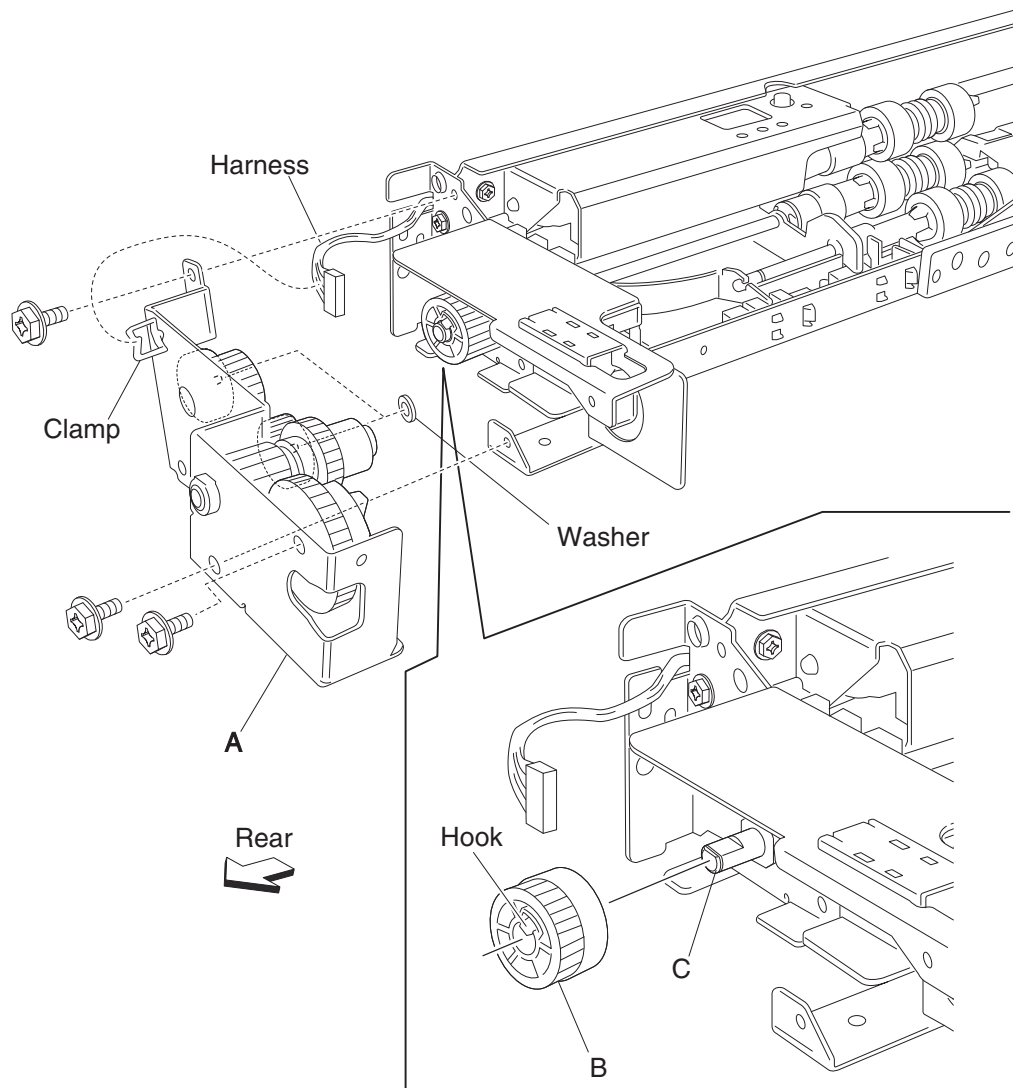


Go Back

2000-sheet dual input (TTM)—feed unit drive gear 27 tooth removal

1. Remove the media feed unit assembly. See “2000-sheet dual input (TTM)—media feed unit assembly removal (tray 3)” on page 4-250 or “2000-sheet dual input (TTM)—media feed unit assembly removal (tray 4)” on page 4-246.
2. Remove the harness from the bracket (A).
3. Remove the three screws securing the bracket (A) to the media feed unit assembly.
4. Remove the bracket (A).

Note: The gears may become detached from the bracket (A).
5. Remove the hook securing the feed unit drive gear - 27 tooth (B) to the shaft (C).
6. Remove the feed unit drive gear - 27 tooth (B).



Note: Before re-installing, ensure all gears and washers are securely attached to the bracket (A).

Previous



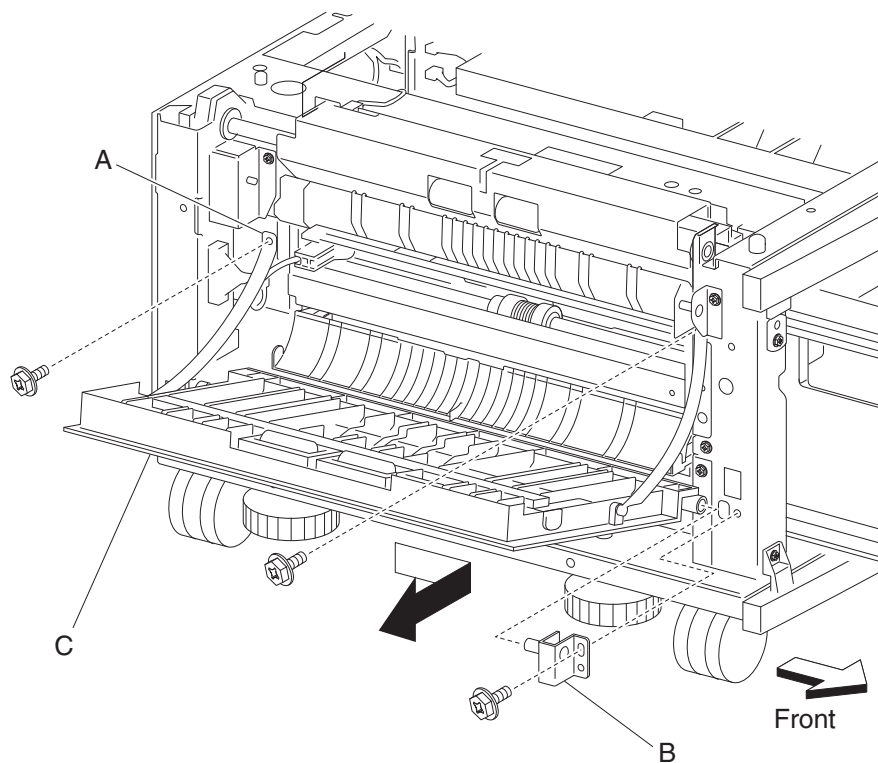
Next



Go Back

2000-sheet dual input (TTM)—2TM/TTM left door assembly removal

1. Open the 2TM/TTM left door assembly.
2. Remove one screw securing the 2TM/TTM left door support strap (A).
3. Remove one screw securing the bracket (B).
4. Remove the bracket (B).
5. Move the 2TM/TTM left door assembly (C) toward the right and outward in the direction of the arrow.
6. Remove the 2TM/TTM left door assembly (C).



Previous



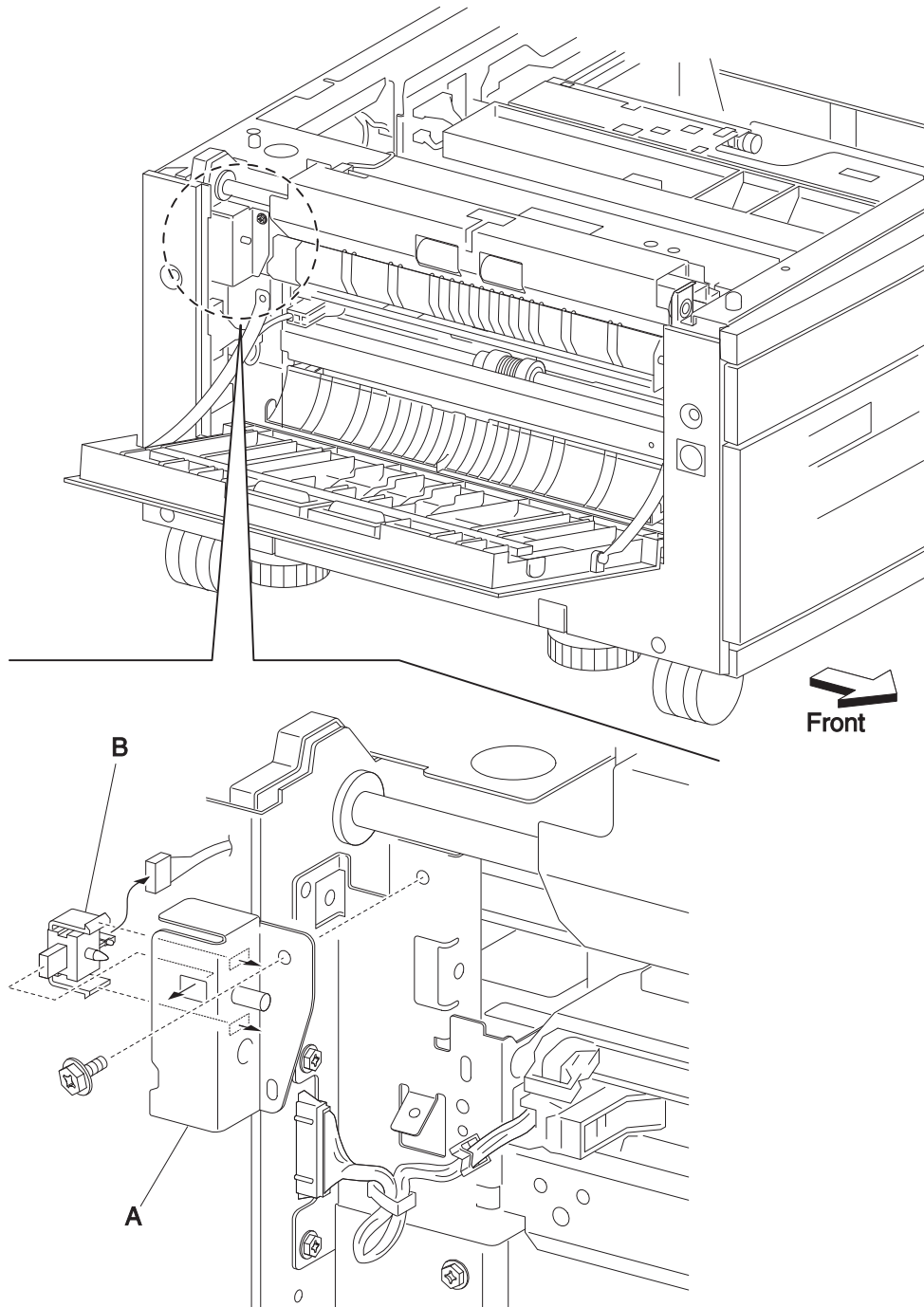
Next



Go Back

2000-sheet dual input (TTM)—switch (2TM/TTM left door interlock) removal

1. Open the left door assembly.
2. Remove the screw securing the bracket (A).
3. Remove the bracket (A).
4. Disconnect the connector from the switch (2TM/TTM left door interlock) (B).
5. Release the hooks securing the switch (2TM/TTM left door interlock) (B) to the bracket (A).
6. Remove the switch (2TM/TTM left door interlock) (B).



Previous



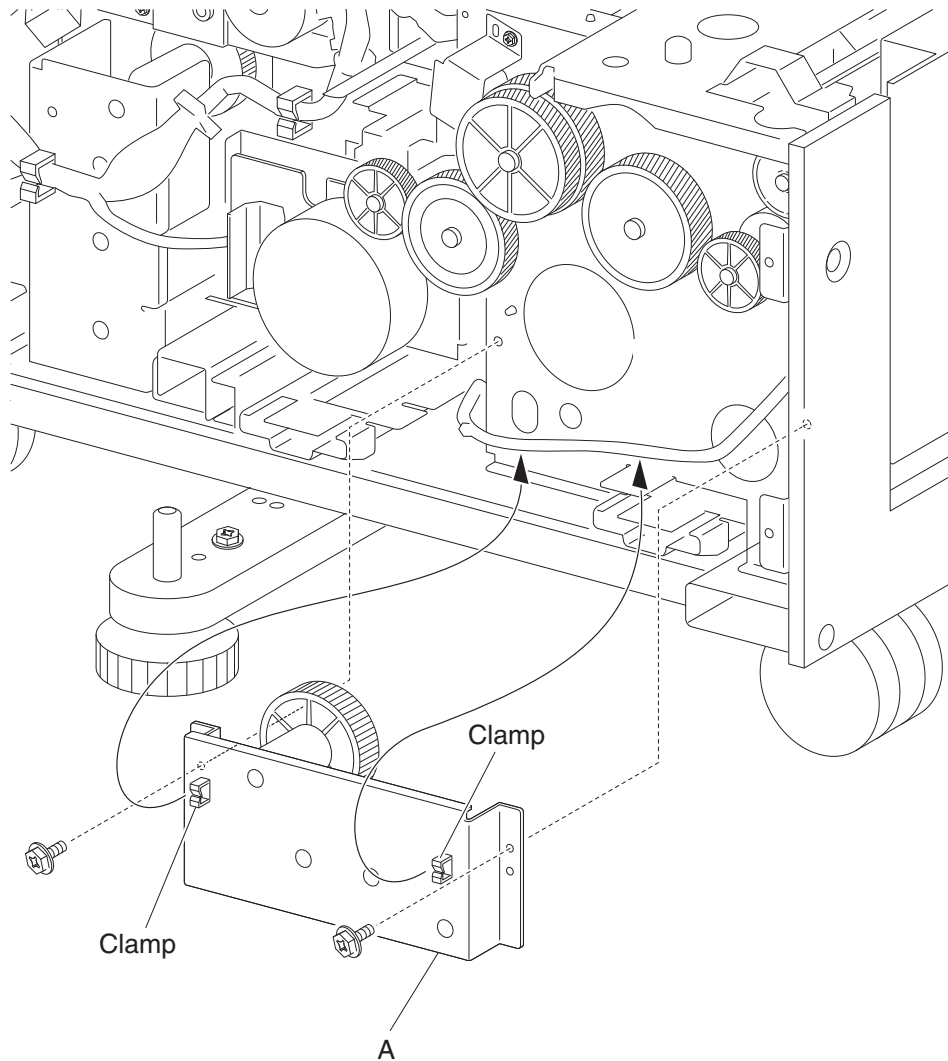
Next



Go Back

2000-sheet dual input (TTM)—tray 3 lift gear assembly removal

1. Remove the rear cover. See **“2000-sheet dual input (TTM)—rear cover removal”** on page 4-219.
2. Remove the media feed unit 3 assembly. See **“2000-sheet dual input (TTM)—media feed unit assembly removal (tray 3)”** on page 4-250.
3. Release the harness from the clamp of the tray 3 lift gear assembly (A).
4. Remove two screws securing the tray 3 lift gear assembly (A).
5. Remove the tray 3 lift gear assembly (A).



Previous



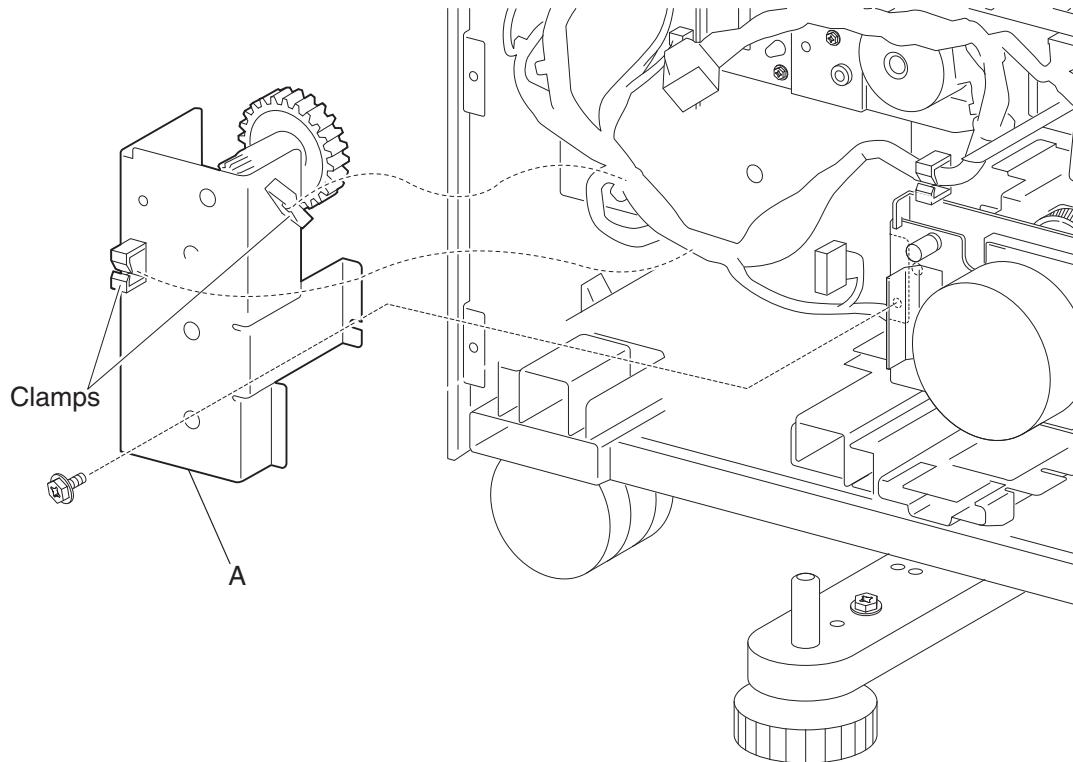
Next



Go Back

2000-sheet dual input (TTM)—tray 4 lift gear assembly removal

1. Remove the rear cover. See **“2000-sheet dual input (TTM)—rear cover removal”** on page 4-219.
2. Remove the controller card assembly. See **“2000-sheet dual input (TTM)—2TM/TTM controller card assembly removal”** on page 4-281.
3. Release the two harnesses from the clamp of the tray 4 lift gear assembly (A).
4. Remove two screws securing the tray 4 lift gear assembly (A).
5. Remove the tray 4 lift gear assembly (A).



Previous



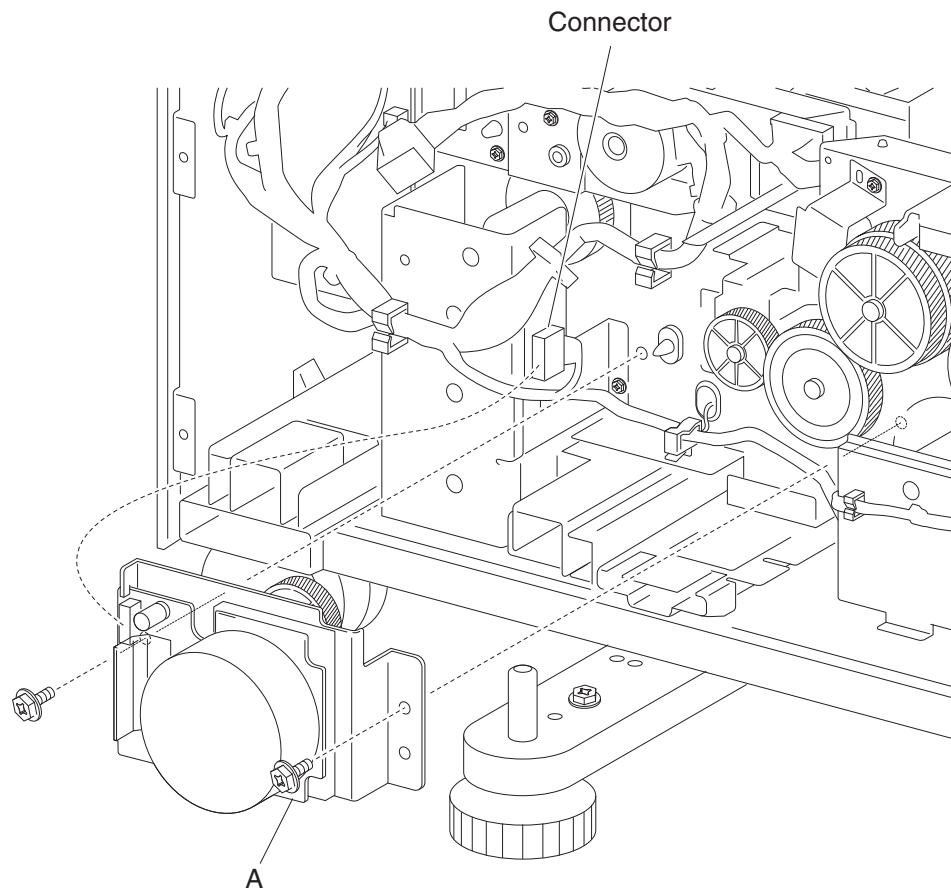
Next



Go Back

2000-sheet dual input (TTM)—drive motor assembly removal

1. Remove the rear cover. See **“2000-sheet dual input (TTM)—rear cover removal”** on page 4-219.
2. Disconnect the connector from the 2TM/TTM drive motor (A).
3. Remove two screws securing the 2TM/TTM drive motor (A).
4. Remove the 2TM/TTM drive motor (A).



Previous



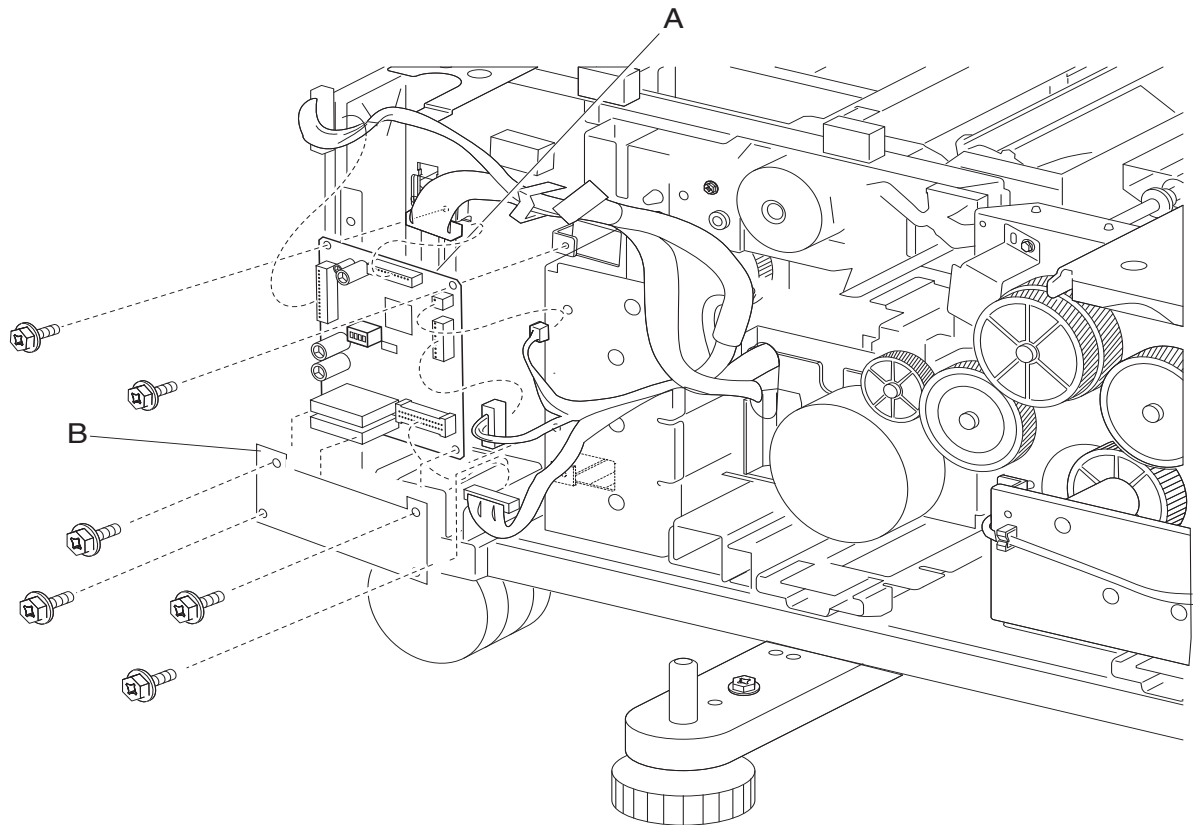
Next



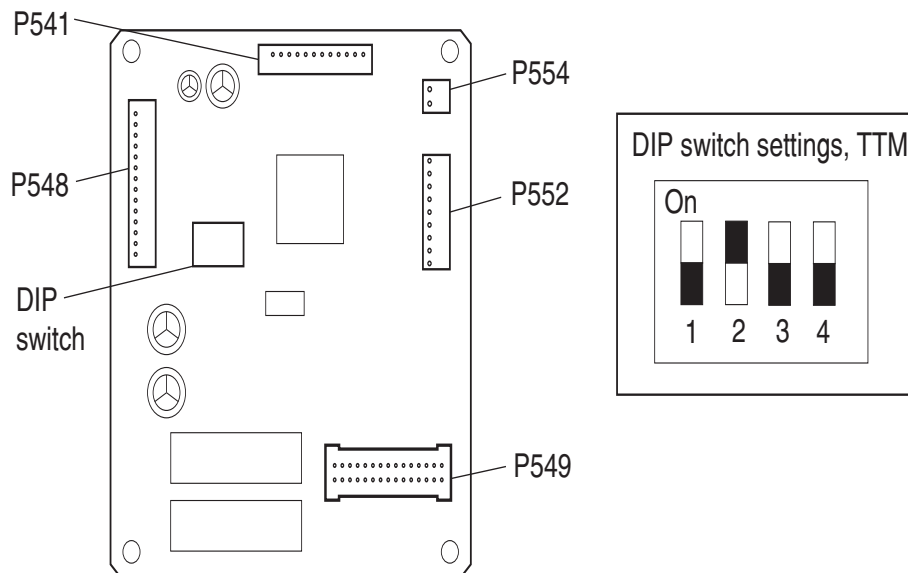
Go Back

2000-sheet dual input (TTM)—2TM/TTM controller card assembly removal

1. Remove the rear cover. See **"2000-sheet dual input (TTM)—rear cover removal"** on page 4-219.
2. Disconnect all the connectors from the 2TM/TTM controller card assembly (A).



3. Remove four screws securing the 2TM/TTM controller card assembly (A).
4. Remove the controller card assembly (A).



2TM /TTM control card

Previous



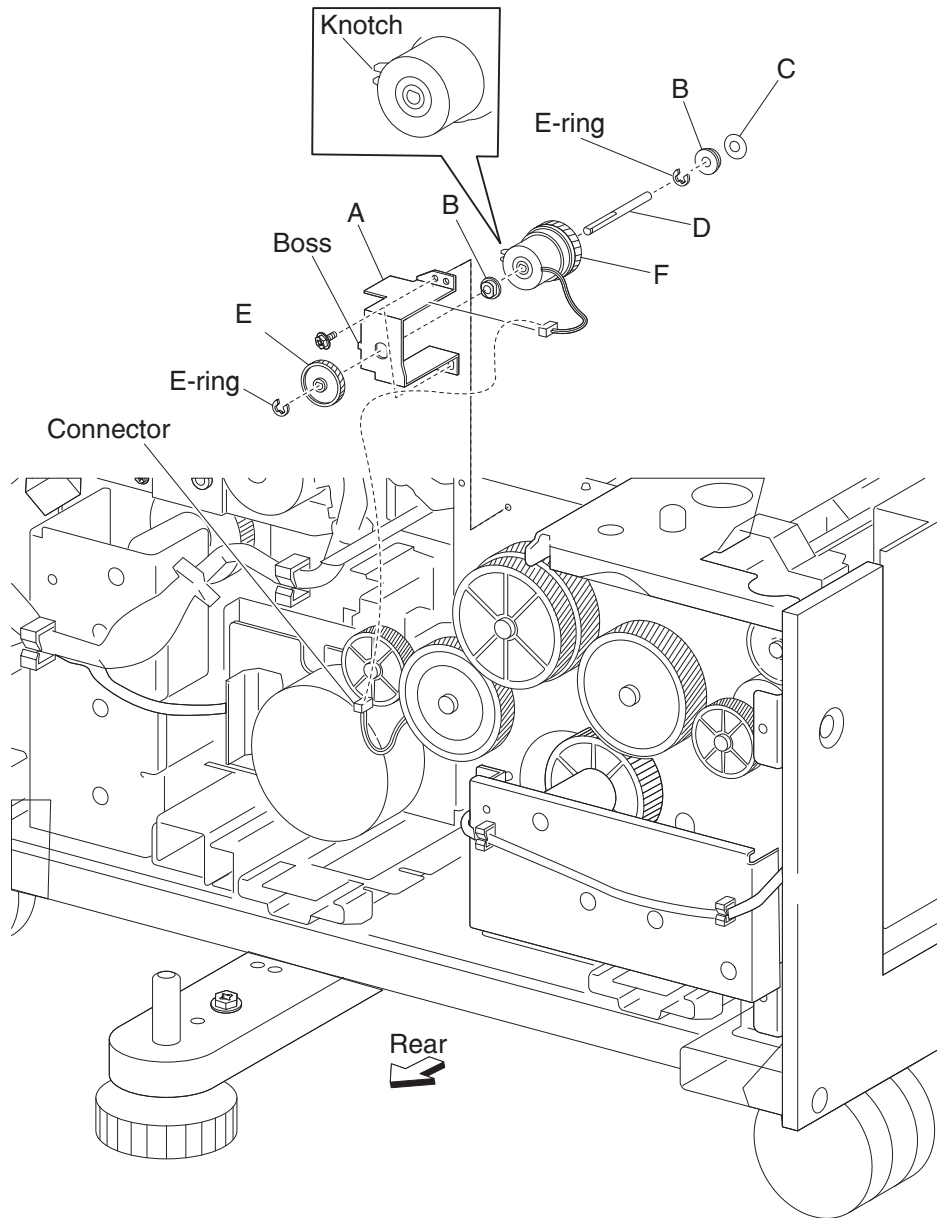
Next



Go Back

2000-sheet dual input (TTM)—clutch removal

1. Remove the rear cover. See **“2000-sheet dual input (TTM)—rear cover removal”** on page 4-219.
2. Disconnect the connector from the machine to the bracket (A).
3. Remove two screws securing the bracket (A) to the frame assembly.
4. Remove the bracket (A).
Note: The bushing (B) and washer (C) may become detached from the shaft (D).
5. Remove the e-clip securing the clutch gear - 38 tooth (E) to the shaft (D) using a prying tool, and remove the clutch gear - 38 tooth (E).
6. Disconnect the harness connector to the 2TM/TTM clutch (F) from the bracket (A).
7. Remove the 2TM/TTM clutch (F).



Note: Before re-installing:

- The notch on the 2TM/TTM clutch (F) must be placed over the boss of the bracket (A), as shown in the figure.

Previous



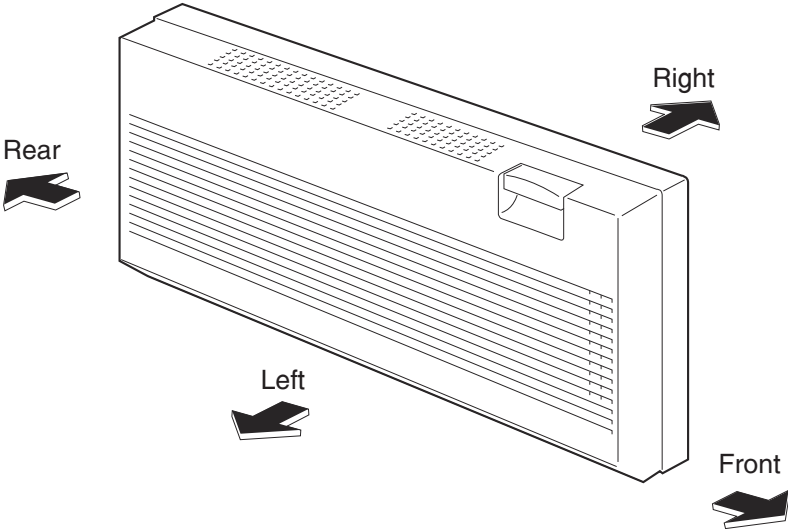
Next



Go Back

- Ensure the harness does not come in contact with the gears.

Duplex unit removals



Previous



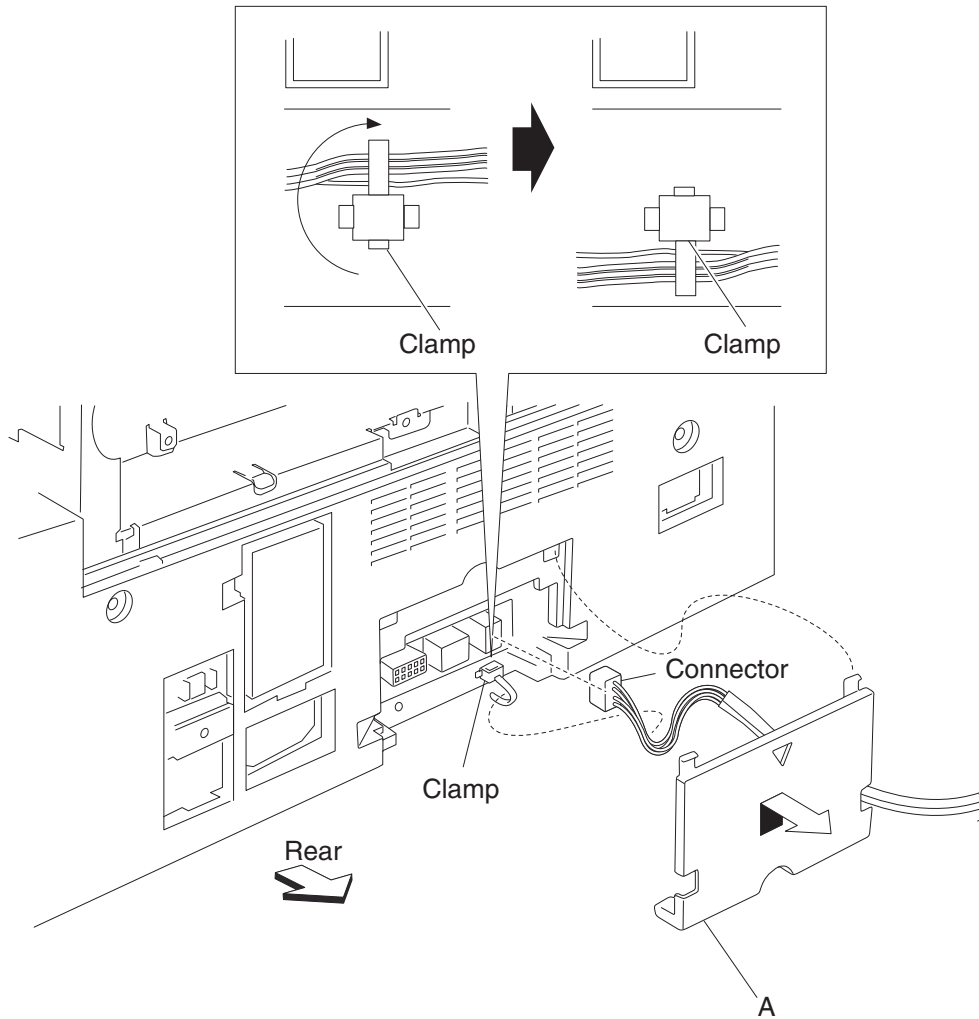
Next



Go Back

Duplex unit assembly removal

1. Pull the option hookup cover (A) outward in the direction of the arrow to remove.
2. Disconnect the connector of the duplex unit assembly harness from the machine.
3. Release the duplex unit assembly harness clamp from the machine.
4. Open the duplex unit assembly.



Previous

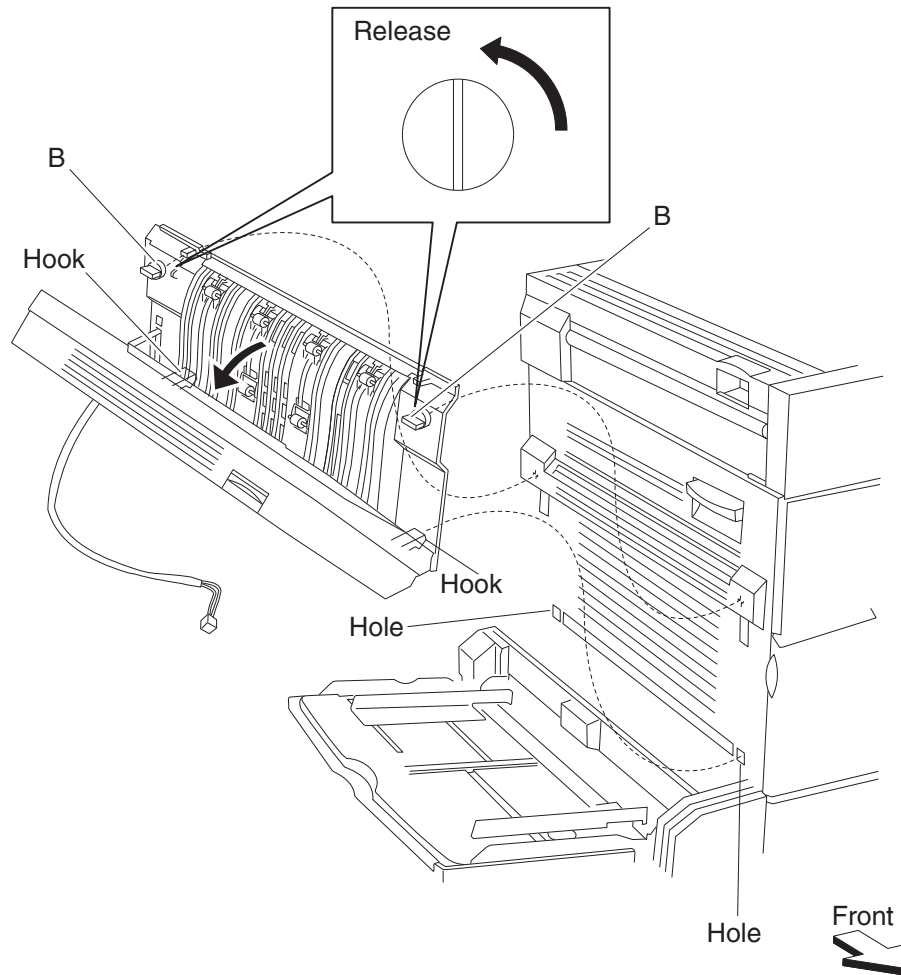


Next



Go Back

5. Turn the two duplex docking locks (B) on the duplex unit assembly by 90 degrees counterclockwise to release the duplex unit assembly from the machine.
6. Remove the duplex unit assembly.



Previous



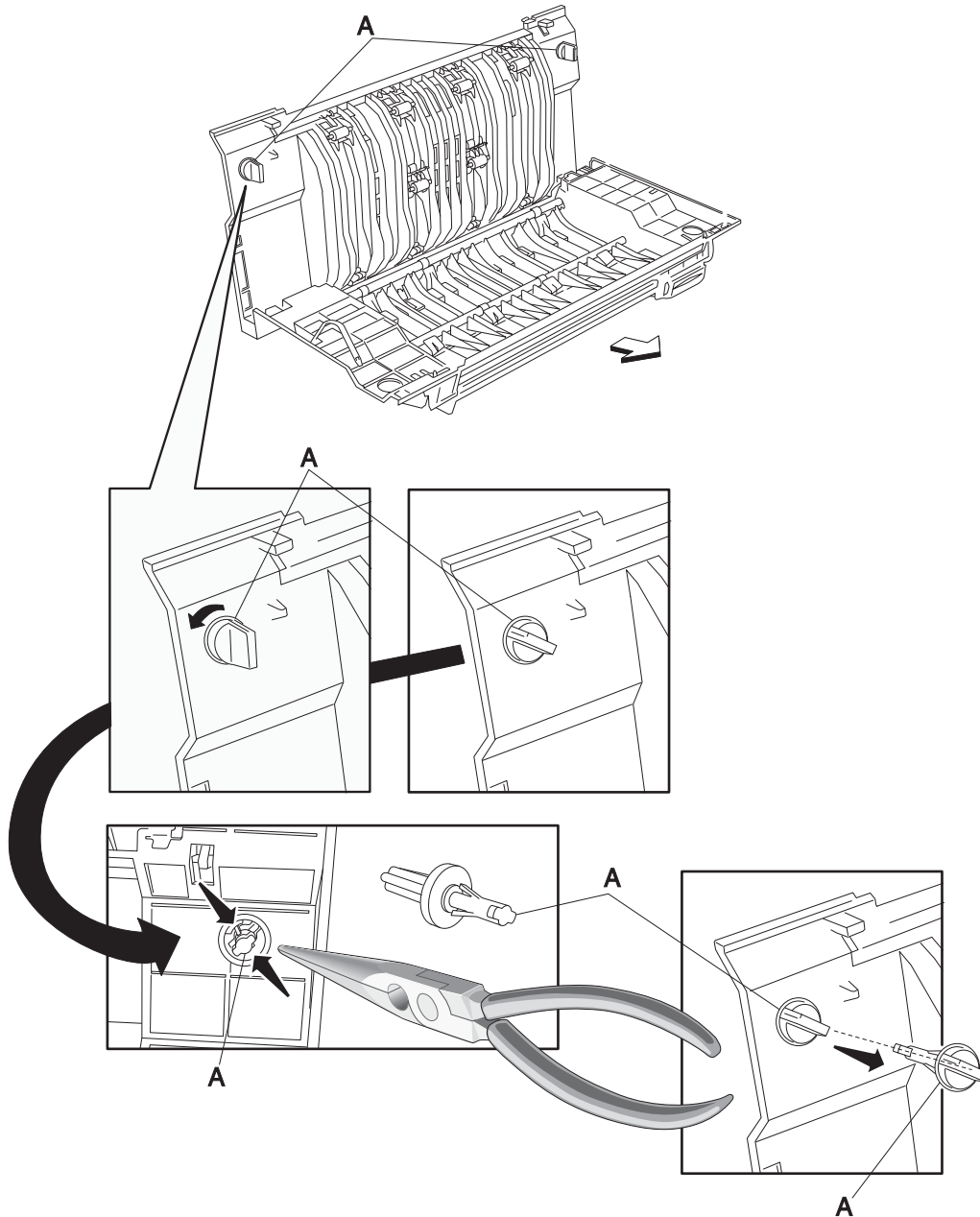
Next



Go Back

Duplex docking locks removal

1. Remove the duplex unit assembly. See **“Duplex unit assembly removal”** on page 4-284.
2. Open the duplex unit assembly.
3. Turn the two duplex docking locks (A) 45 degrees, and release the hooks with needle nose pliers on the back side securing them to the duplex.
4. Remove the two duplex docking locks (A).



Previous



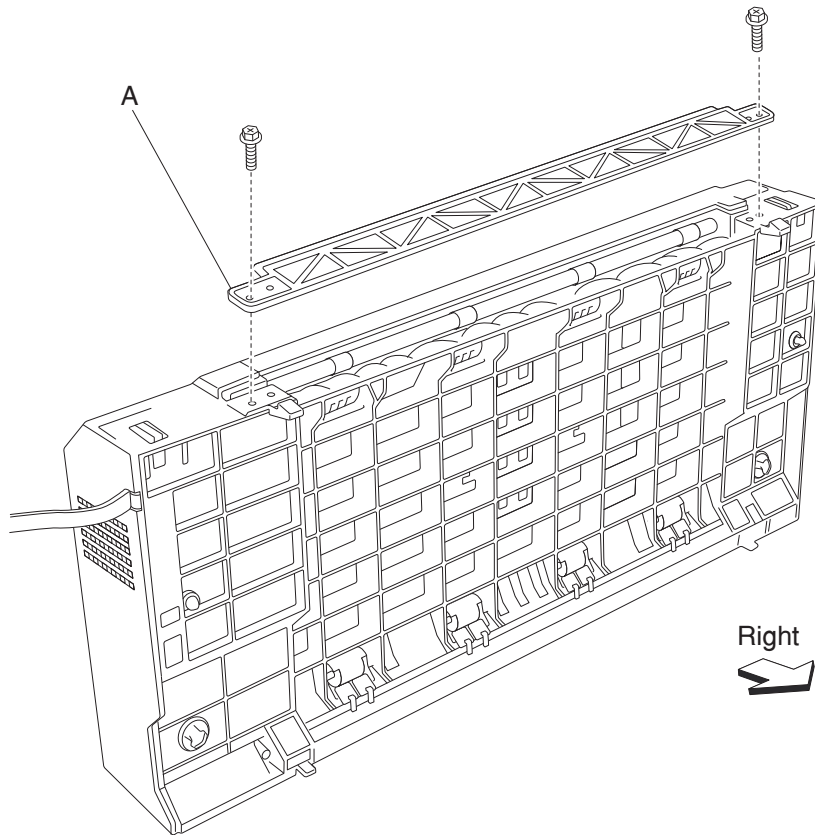
Next



Go Back

Duplex support strap removal

1. Remove the duplex unit assembly. See **“Duplex unit assembly removal”** on page 4-284.
2. Remove the two screws securing the duplex lower guide (A) to the duplex unit assembly.
3. Remove the duplex lower guide (A).



Previous

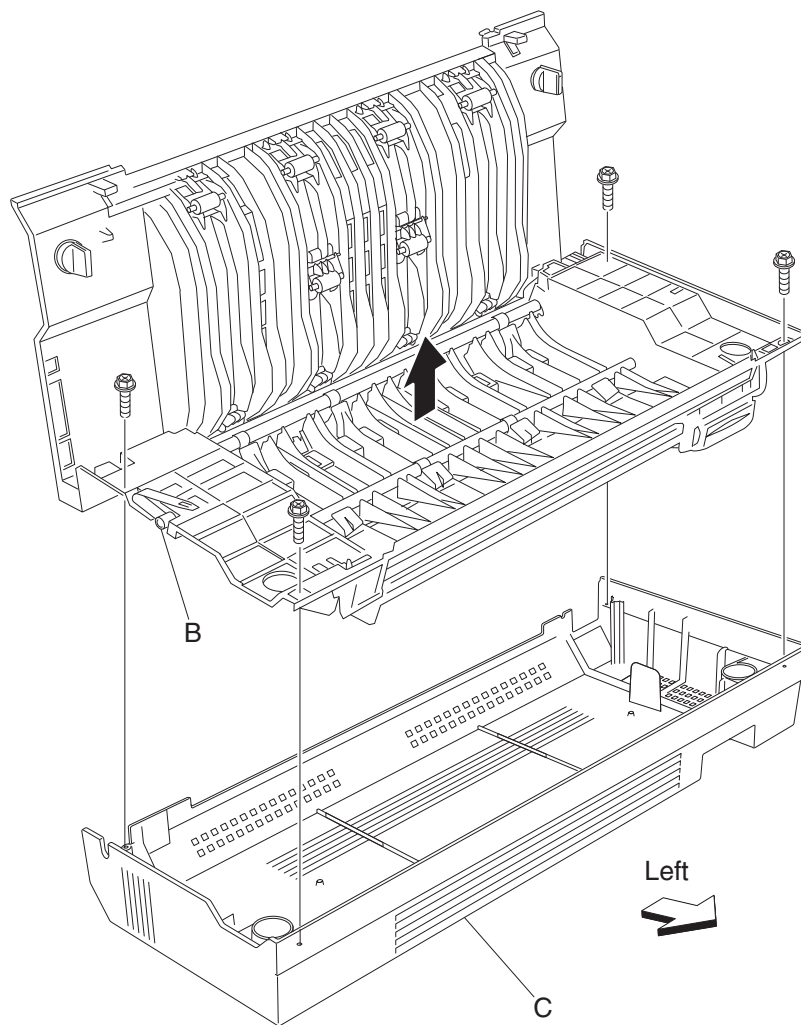


Next



Go Back

4. Open the duplex unit assembly.
5. Release the hook of the duplex left door support strap (B) securing the duplex left cover (C) to the duplex unit assembly.



6. Remove the four screws securing the duplex left cover (C) to the duplex unit assembly.
7. Remove the duplex left cover (C).

Previous

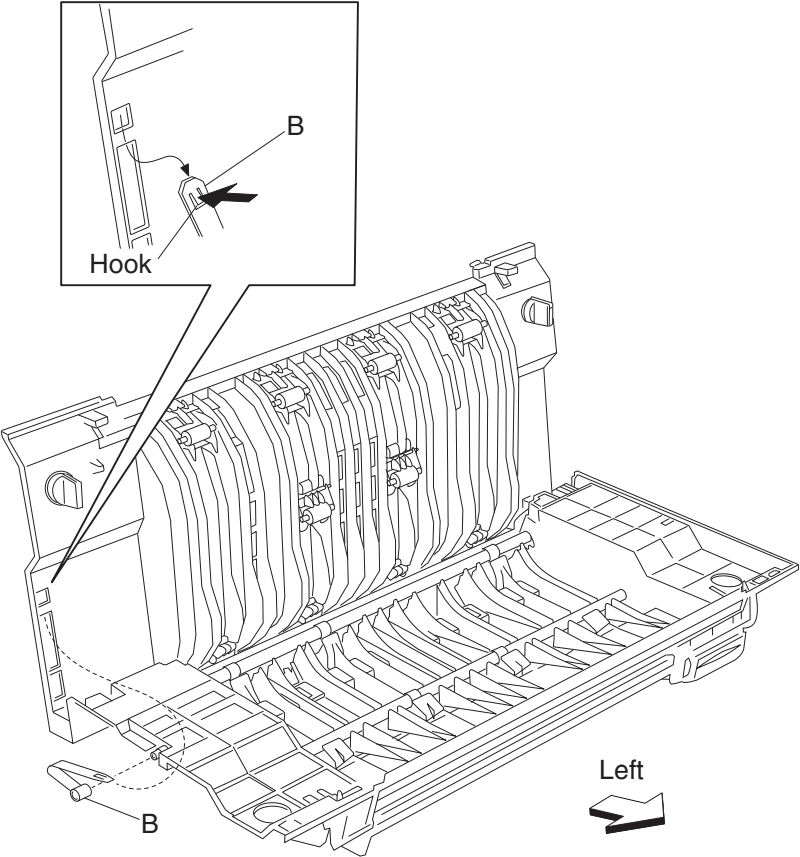


Next



Go Back

8. Remove the duplex left door support strap (B) from the duplex unit assembly.



Previous



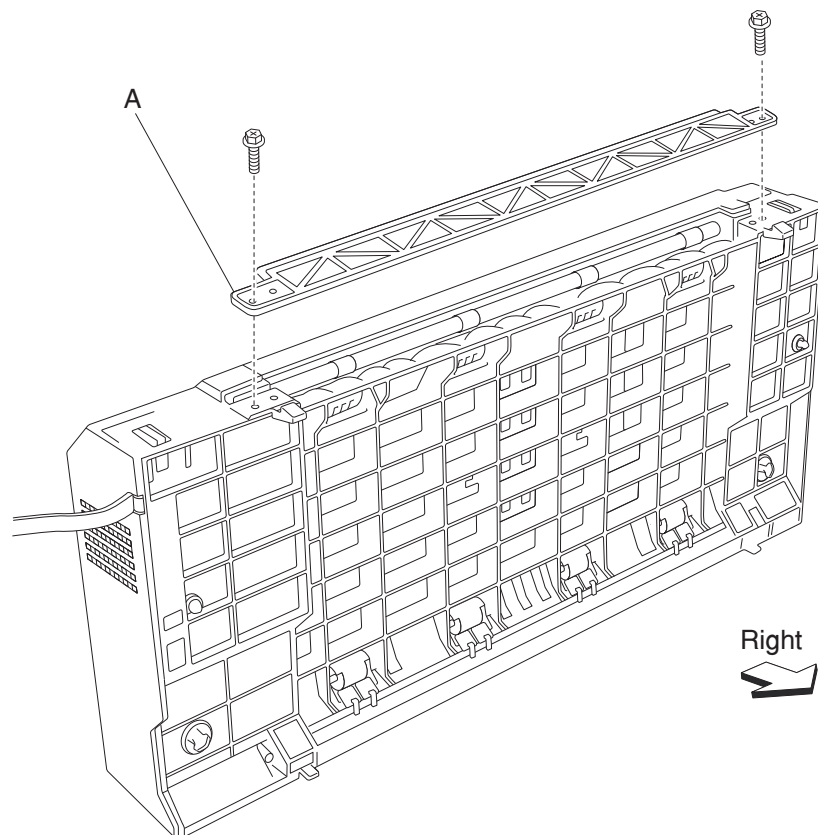
Next



Go Back

Duplex drive gear 28 tooth removal

1. Remove the duplex unit assembly. See **“Duplex unit assembly removal”** on page 4-284.
2. Remove the two screws securing the duplex lower guide (A) to the duplex unit assembly.
3. Remove the duplex lower guide (A).



Previous

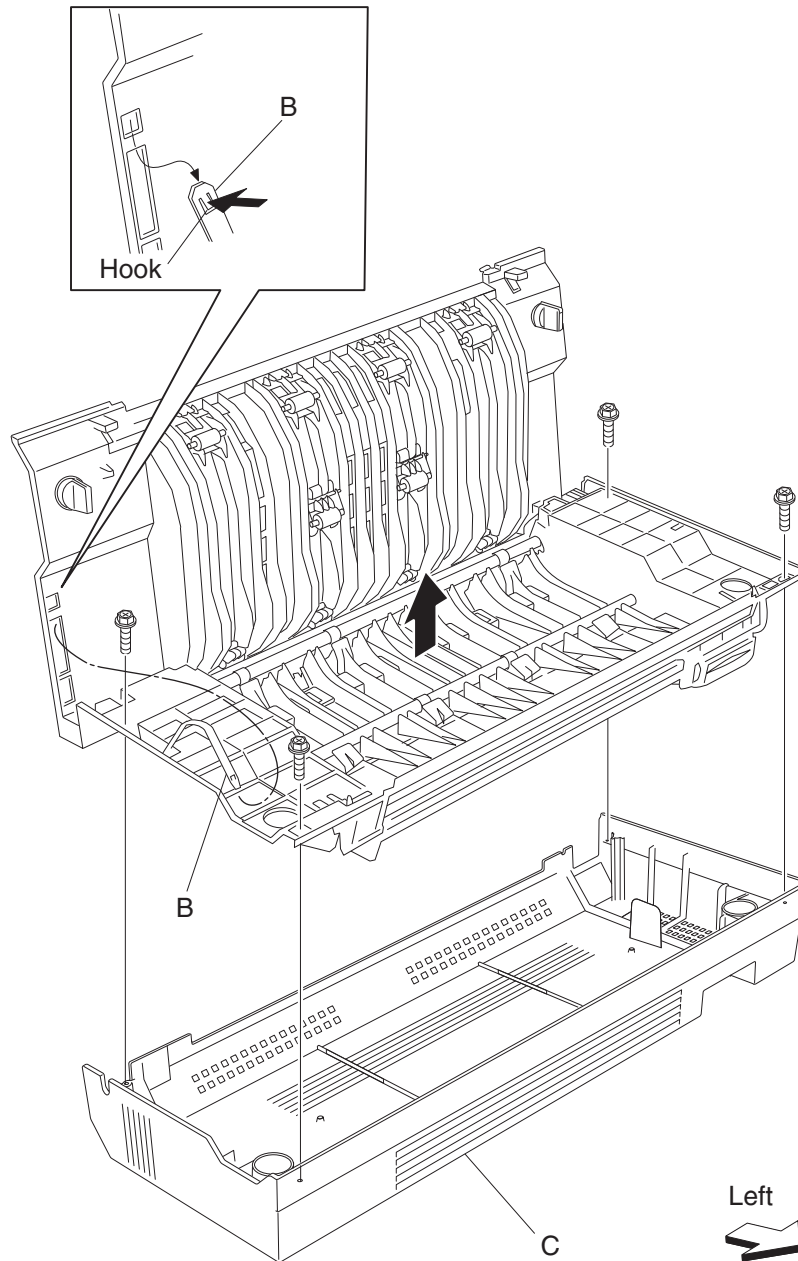


Next



Go Back

4. Open the duplex unit assembly.
5. Release the hook of the duplex left door support strap (B) securing the duplex left cover (C) to the duplex unit assembly.
6. Remove the four screws securing the duplex left cover (C) to the duplex unit assembly.
7. Remove the duplex left cover (C).



Previous



Next



Go Back

8. Disconnect the connector of the harness from duplex drive motor assembly (D) to the duplex main cable assembly.
9. Release the harness from the clamps of the duplex unit assembly.
10. Remove the three screws securing the bracket (E) to the duplex unit assembly.
11. Remove the bracket (E).
12. Remove the two duplex drive gears 33/74T (G).
13. Release the hooks securing the three duplex drive gears 28T (F) to the duplex unit assembly.
14. Remove the three duplex drive gears 28T (F).

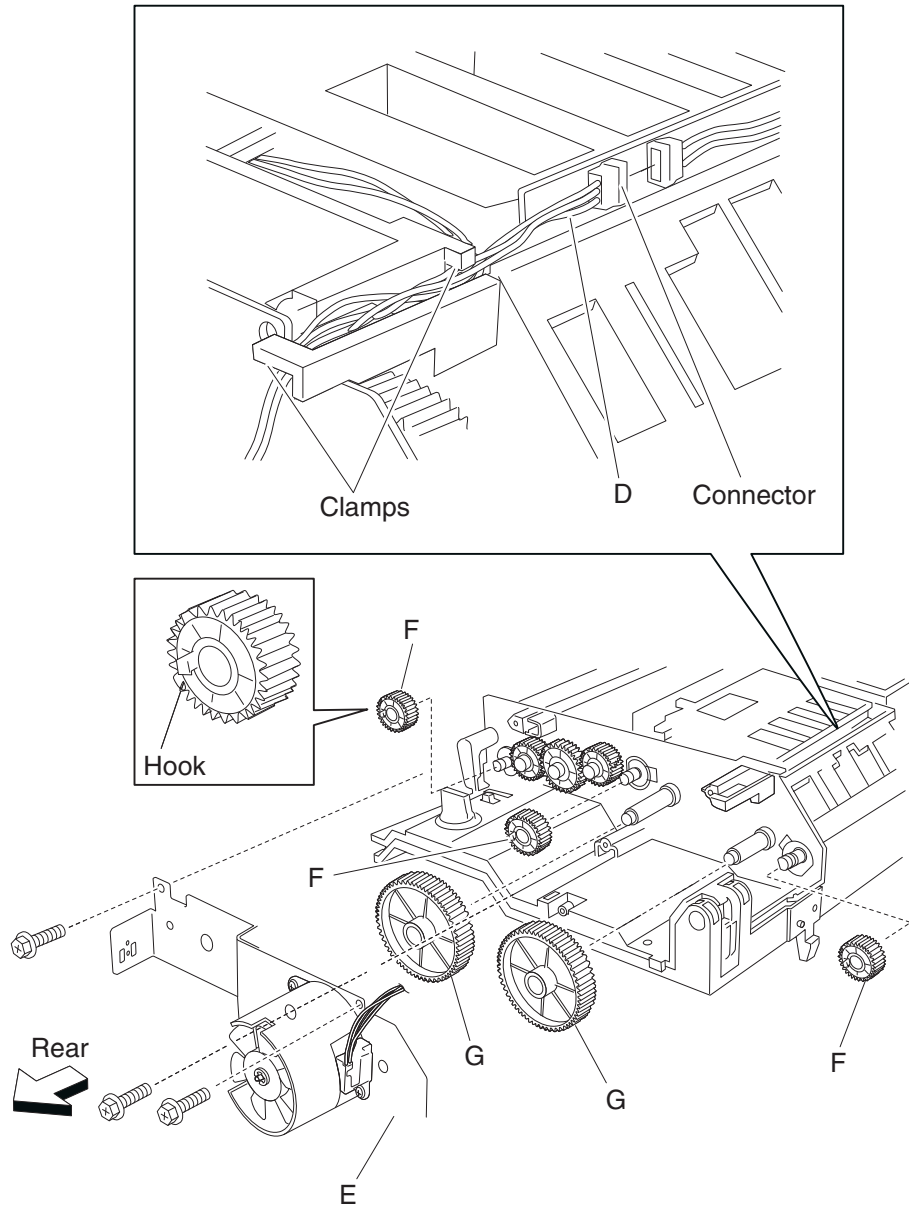
Previous



Next

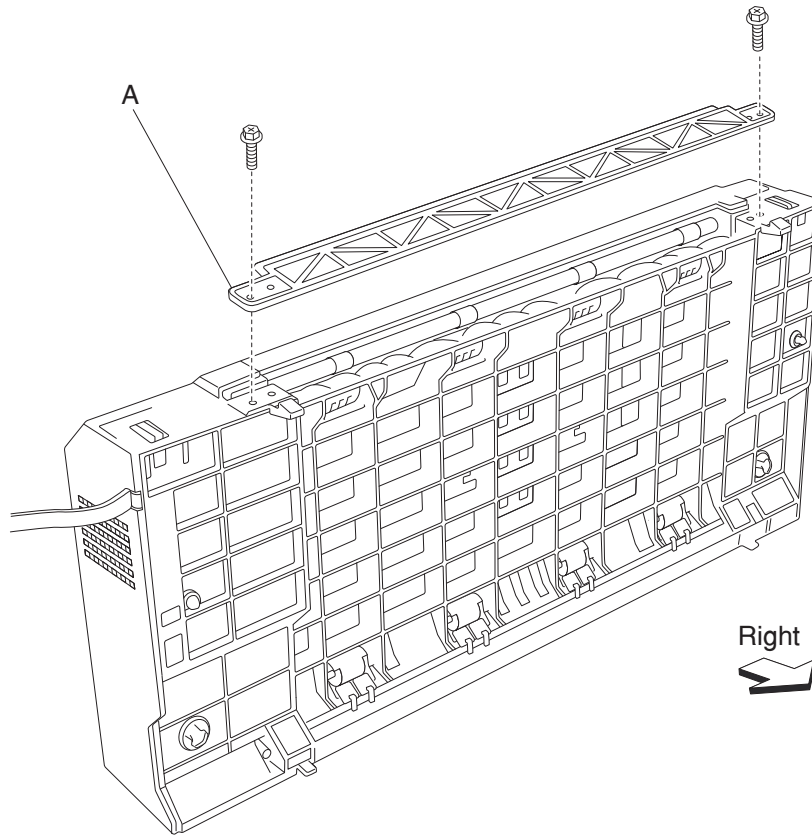


Go Back



Duplex drive gear 33 / 74 tooth removal

1. Remove the duplex unit assembly. See **“Duplex unit assembly removal”** on page 4-284.
2. Remove the two screws securing the duplex lower guide (A) to the duplex unit assembly.
3. Remove the duplex lower guide (A).



Previous

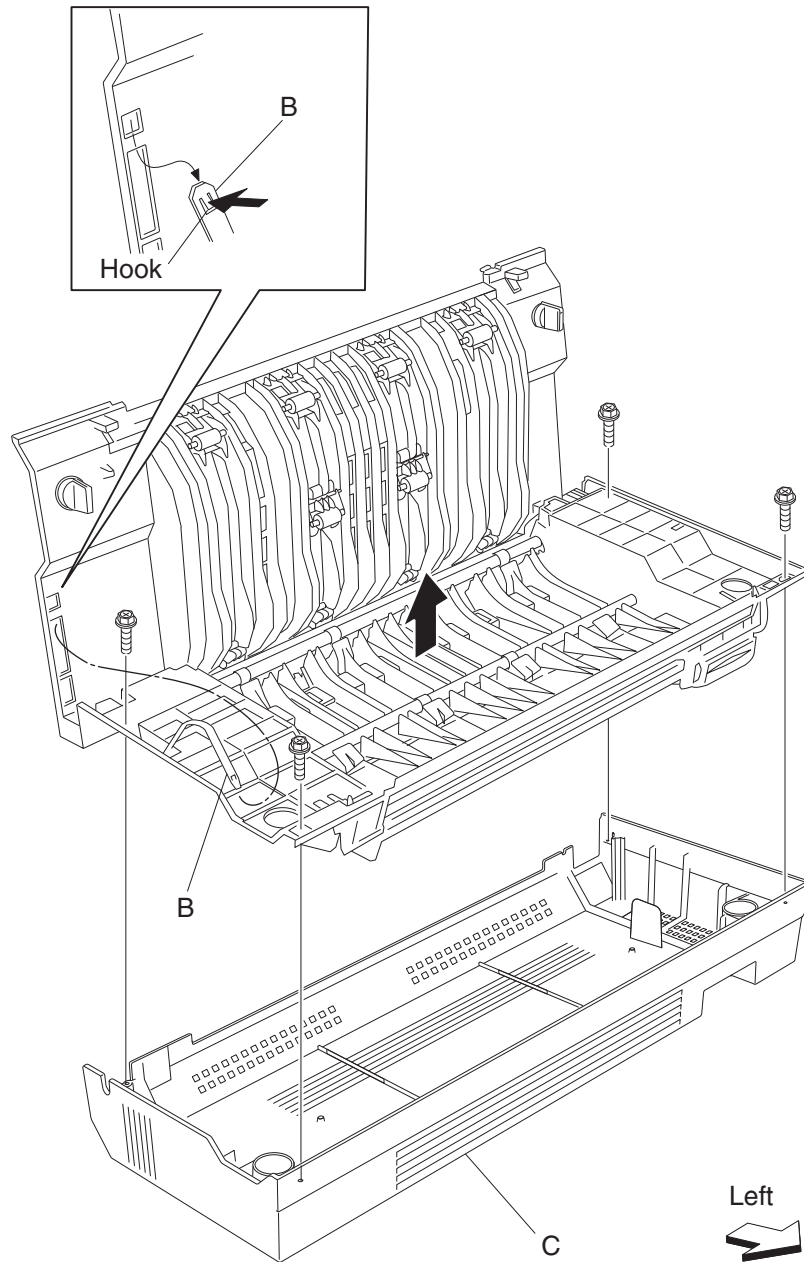


Next



Go Back

4. Open the duplex unit assembly.
5. Release the hook of the duplex left door support strap (B) securing the duplex left cover (C) to the duplex unit assembly.
6. Remove the four screws securing the duplex left cover (C) to the duplex unit assembly.
7. Remove the duplex left cover (C).



Previous

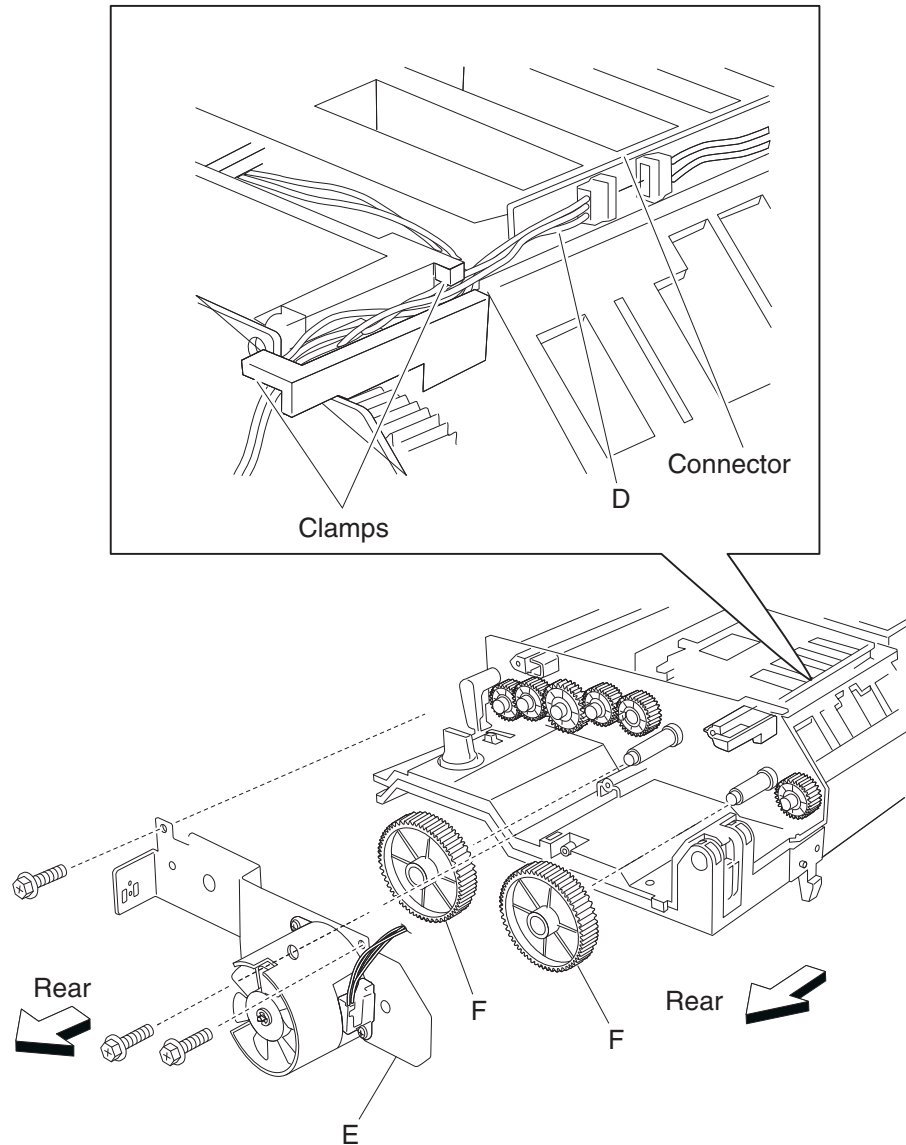


Next



Go Back

8. Disconnect the connector of the harness from duplex drive motor assembly (D) to the duplex main cable assembly.
9. Release the harness from the clamps of the duplex unit assembly.
10. Remove the three screws securing the bracket (E) to the duplex unit assembly.
11. Remove the bracket (E).
12. Remove the two duplex drive gears 33/74T (F).



Previous



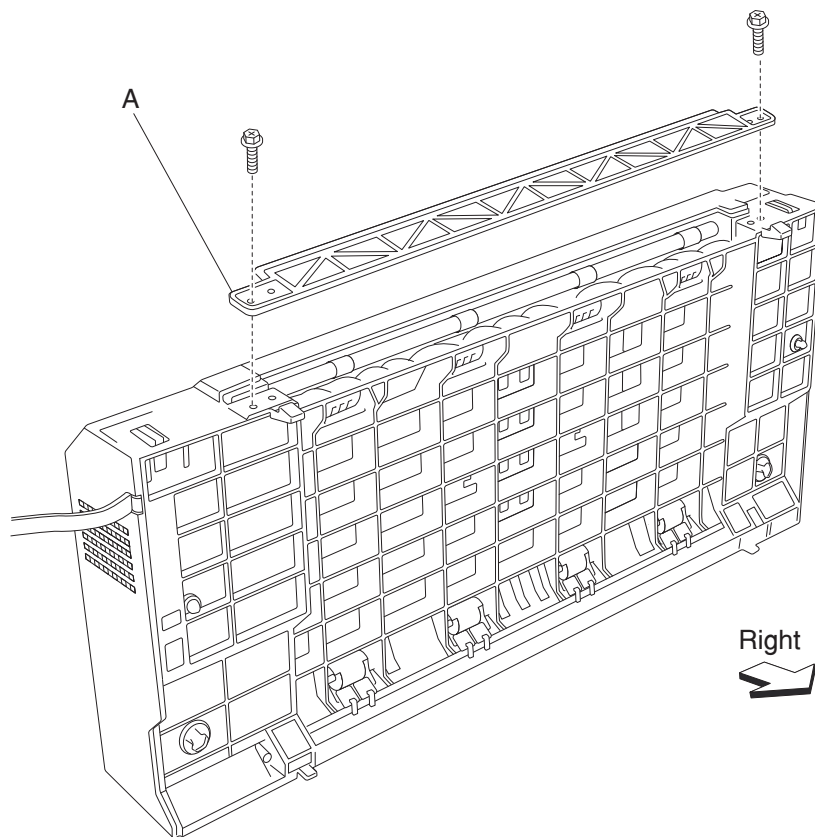
Next



Go Back

Duplex drive gear 33 tooth removal

1. Remove the duplex unit assembly. See **“Duplex unit assembly removal”** on page 4-284.
2. Remove the two screws securing the duplex lower guide (A) to the duplex unit assembly.
3. Remove the duplex lower guide (A).



Previous

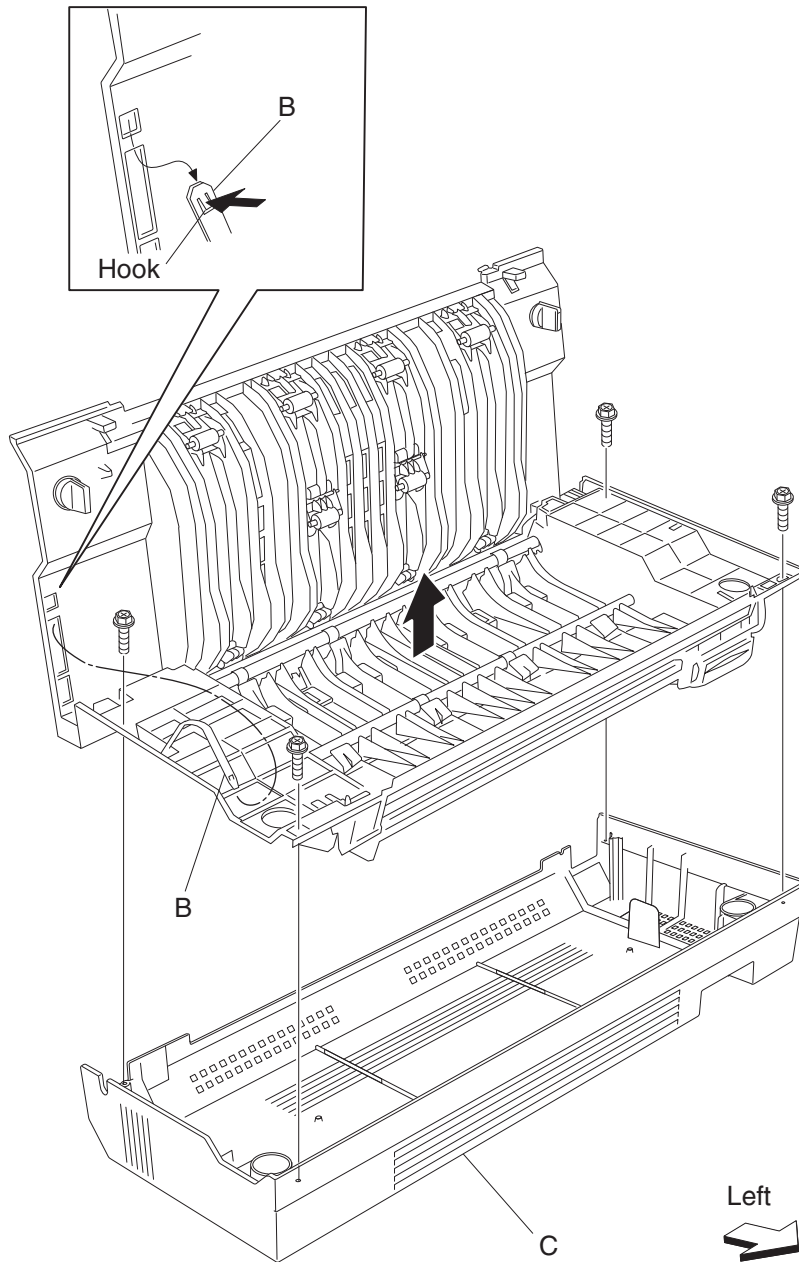


Next



Go Back

4. Open the duplex unit assembly.
5. Release the hook of the duplex left door support strap (B) securing the duplex left cover (C) to the duplex unit assembly.
6. Remove the four screws securing the duplex left cover (C) to the duplex unit assembly.
7. Remove the duplex left cover (C).



Previous



Next



Go Back

8. Disconnect the connector of the harness from the duplex drive motor assembly (D) to the duplex main cable assembly.
9. Release the harness from the clamps of the duplex unit assembly.
10. Remove the three screws securing the bracket (E) to the duplex unit assembly.
11. Remove the bracket (E).
12. Remove the two duplex drive gears 33T (F).

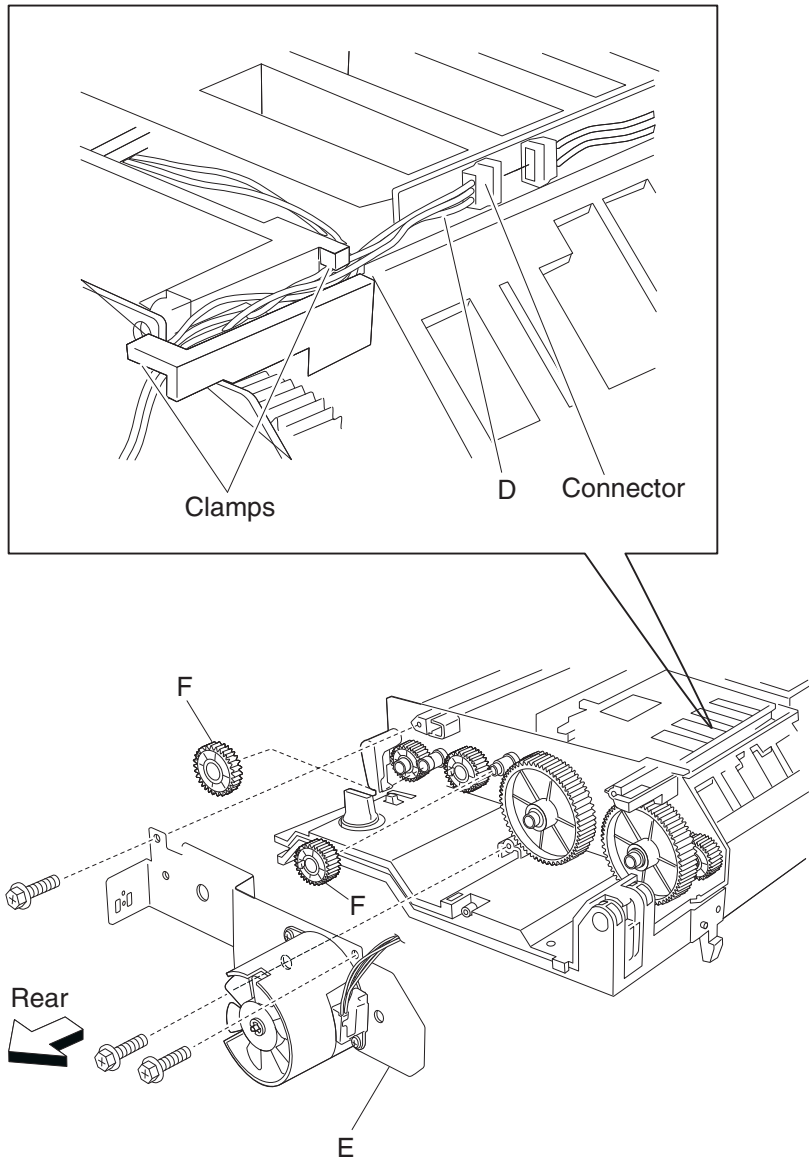
Previous



Next

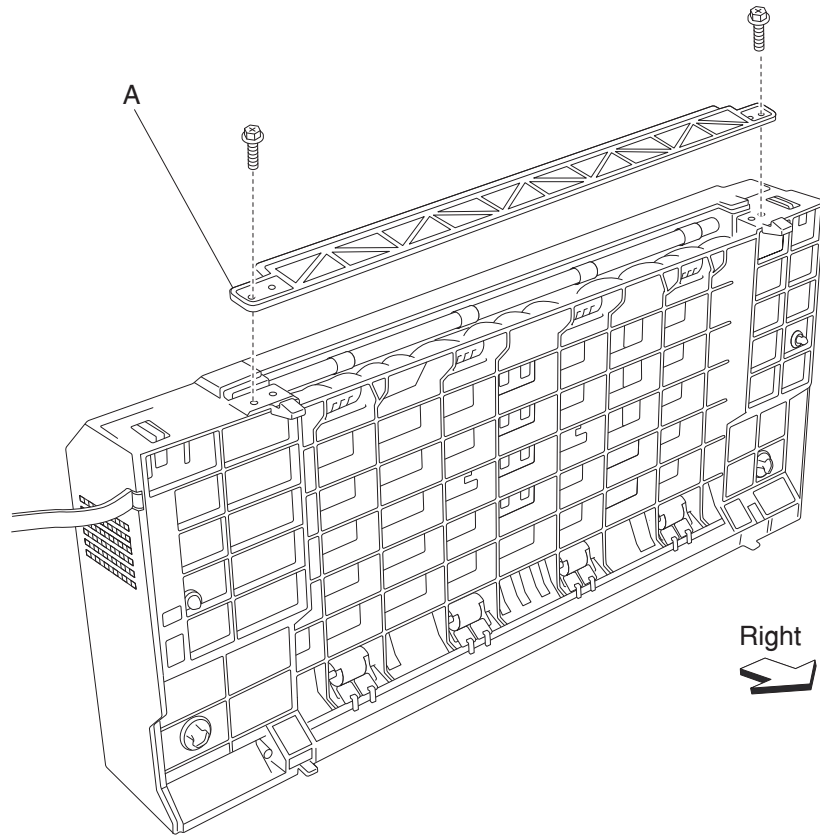


Go Back



Duplex drive gear 42 tooth removal

1. Remove the duplex unit assembly. See **“Duplex unit assembly removal”** on page 4-284.
2. Remove the two screws securing the duplex lower guide (A) to the duplex unit assembly.
3. Remove the duplex lower guide (A).



Previous

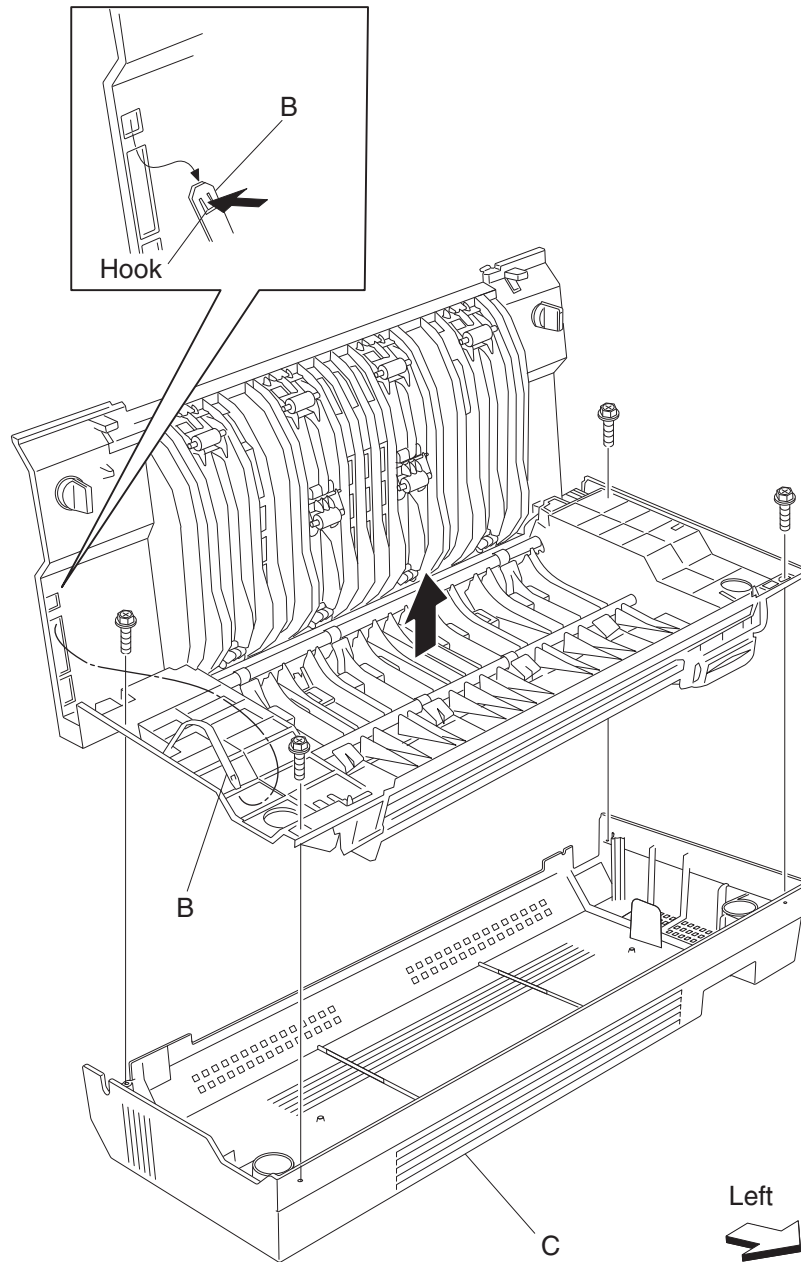


Next



Go Back

4. Open the duplex unit assembly.
5. Release the hook of the duplex left door support strap (B) securing the duplex left cover (C) to the duplex unit assembly.
6. Remove the four screws securing the duplex left cover (C) to the duplex unit assembly.
7. Remove the duplex left cover (C).



Previous

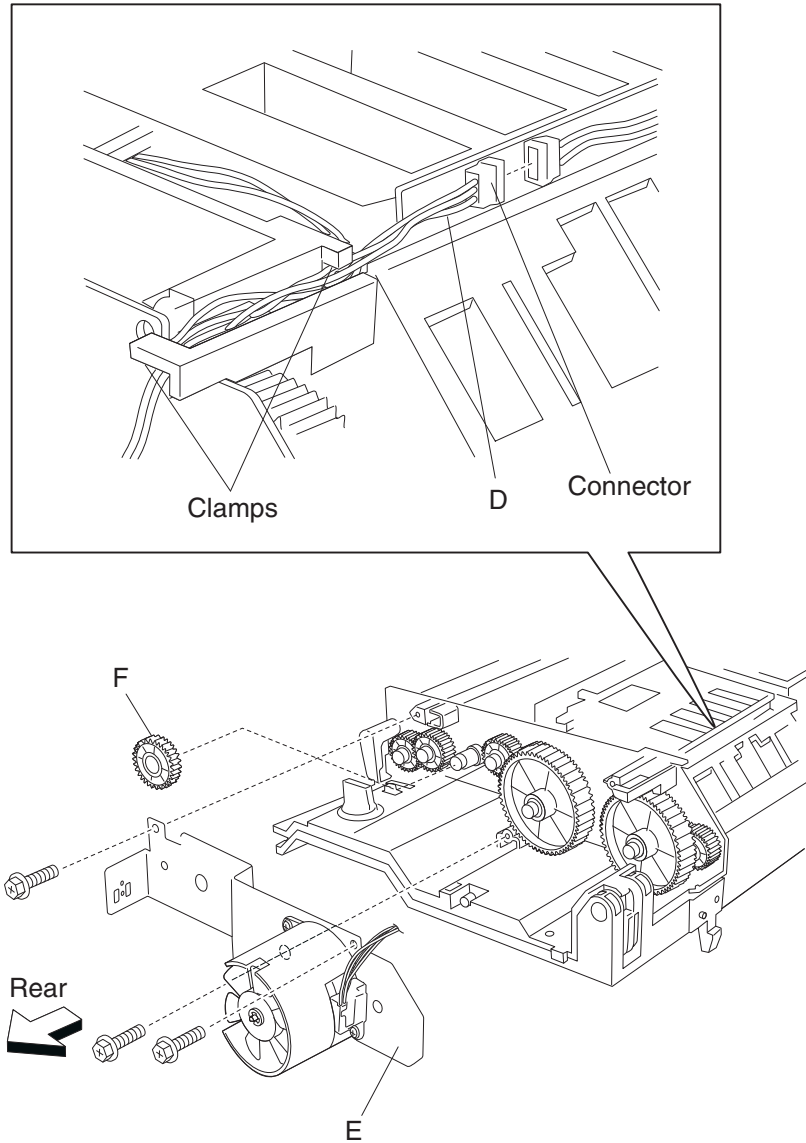


Next



Go Back

8. Disconnect the connector of the harness from duplex drive motor assembly (D) to the duplex main cable assembly.
9. Release the harness from the clamps of the duplex unit assembly.
10. Remove the three screws securing the bracket (E) to the duplex unit assembly.
11. Remove the bracket (E).
12. Remove the duplex drive gear 42T (F).



Previous



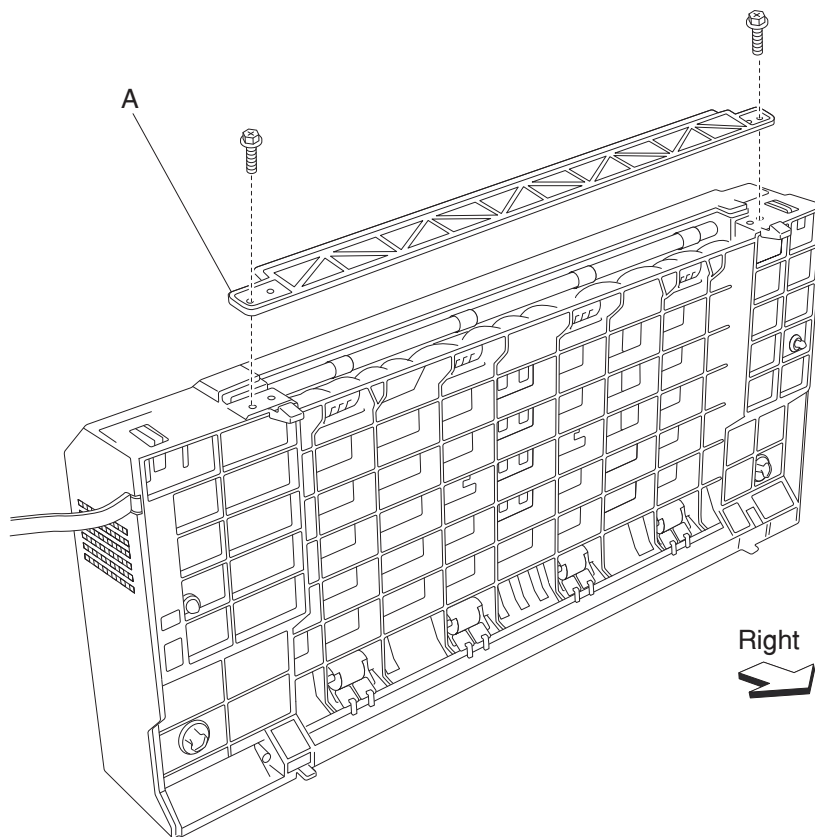
Next



Go Back

Duplex switch (left cover interlock) removal

1. Remove the duplex unit assembly. See **“Duplex unit assembly removal”** on page 4-284.
2. Remove the two screws securing the duplex lower guide (A) to the duplex unit assembly.
3. Remove the duplex lower guide (A).



Previous

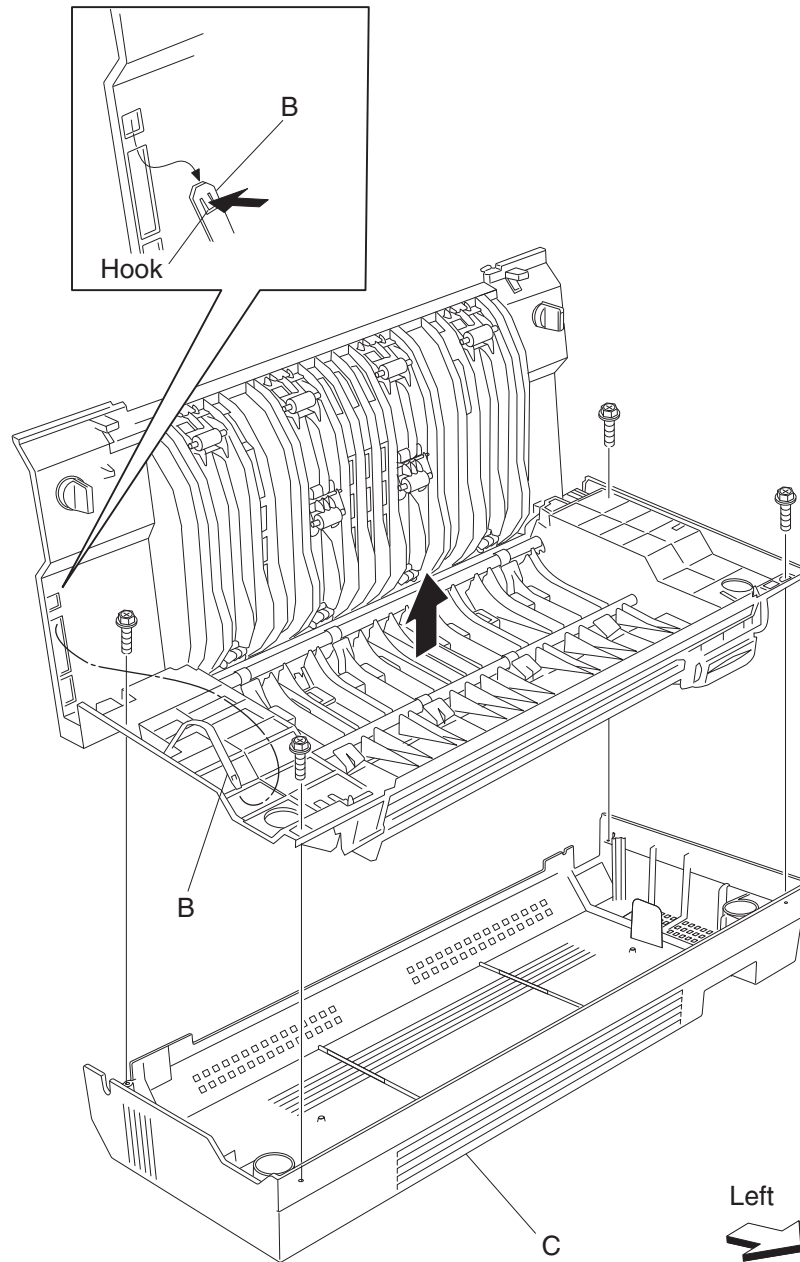


Next



Go Back

4. Open the duplex unit assembly.
5. Release the hook of the duplex left door support strap (B) securing the duplex left cover (C) to the duplex unit assembly.
6. Remove the four screws securing the duplex left cover (C) to the duplex unit assembly.
7. Remove the duplex left cover (C).



Previous

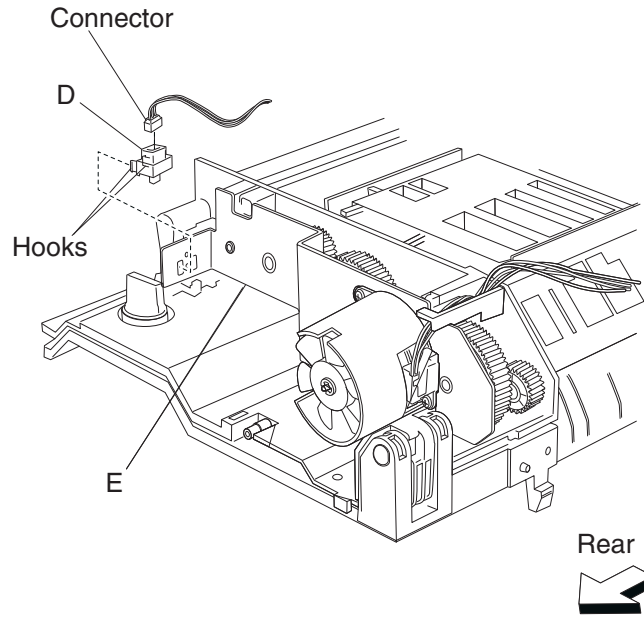


Next



Go Back

8. Disconnect the connector from the switch (duplex left door interlock) (D).
9. Release the hooks securing the switch (duplex cover interlock) (D) to the bracket (E).
10. Remove the switch (duplex left door interlock) (D).



Previous



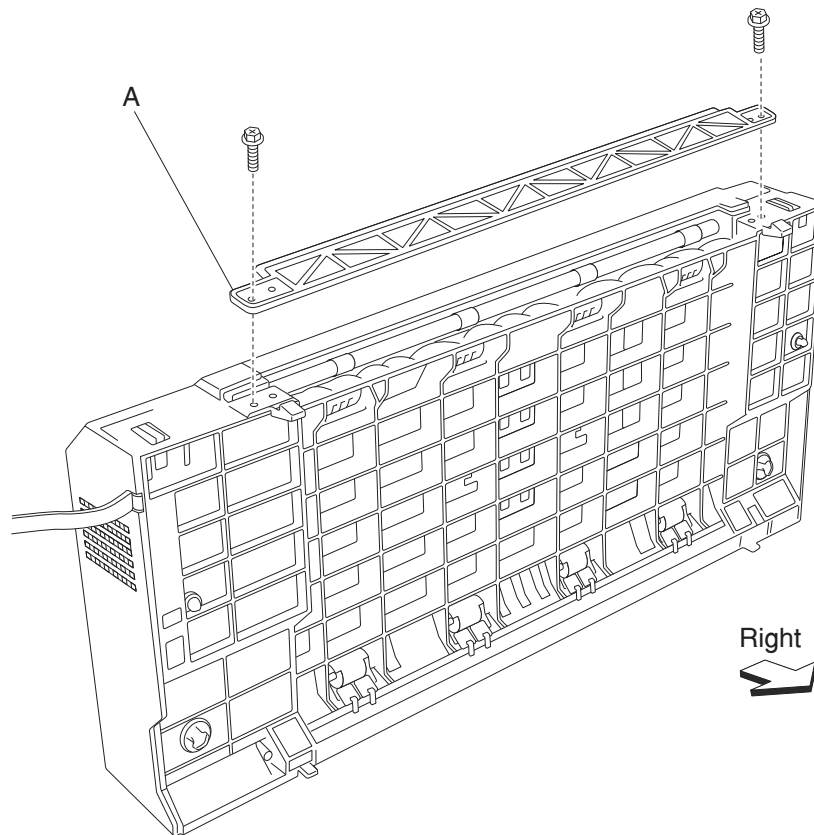
Next



Go Back

Duplex media in actuator removal

1. Remove the duplex unit assembly. See **“Duplex unit assembly removal”** on page 4-284.
2. Remove the two screws securing the duplex lower guide (A) to the duplex unit assembly.
3. Remove the duplex lower guide (A).



Previous

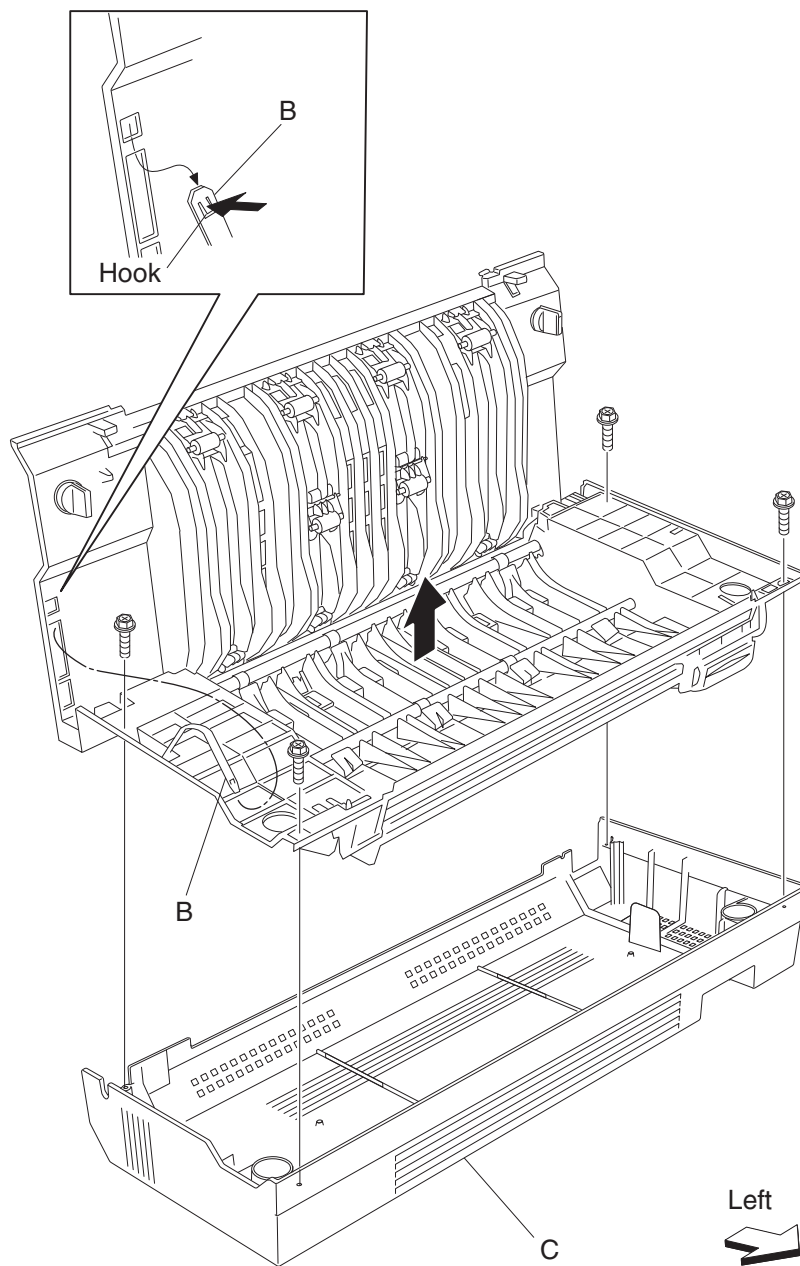


Next



Go Back

4. Open the duplex unit assembly.
5. Release the hook of the duplex left door support strap (B) securing the duplex left cover (C) to the duplex unit assembly.
6. Remove the four screws securing the duplex left cover (C) to the duplex unit assembly.
7. Remove the duplex left cover (C).



Previous

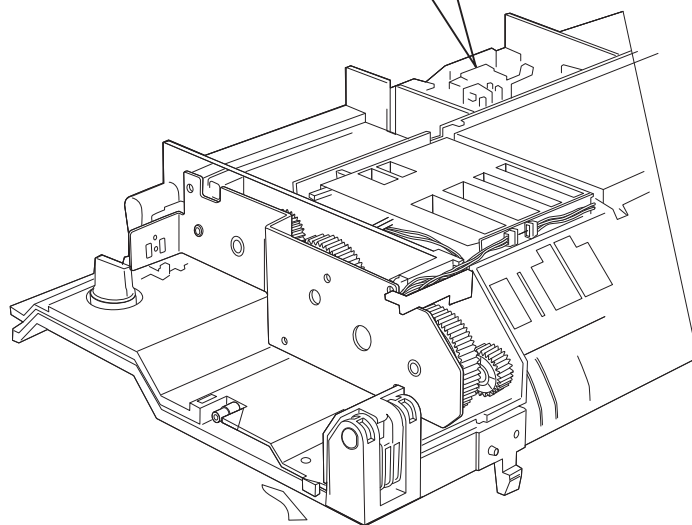
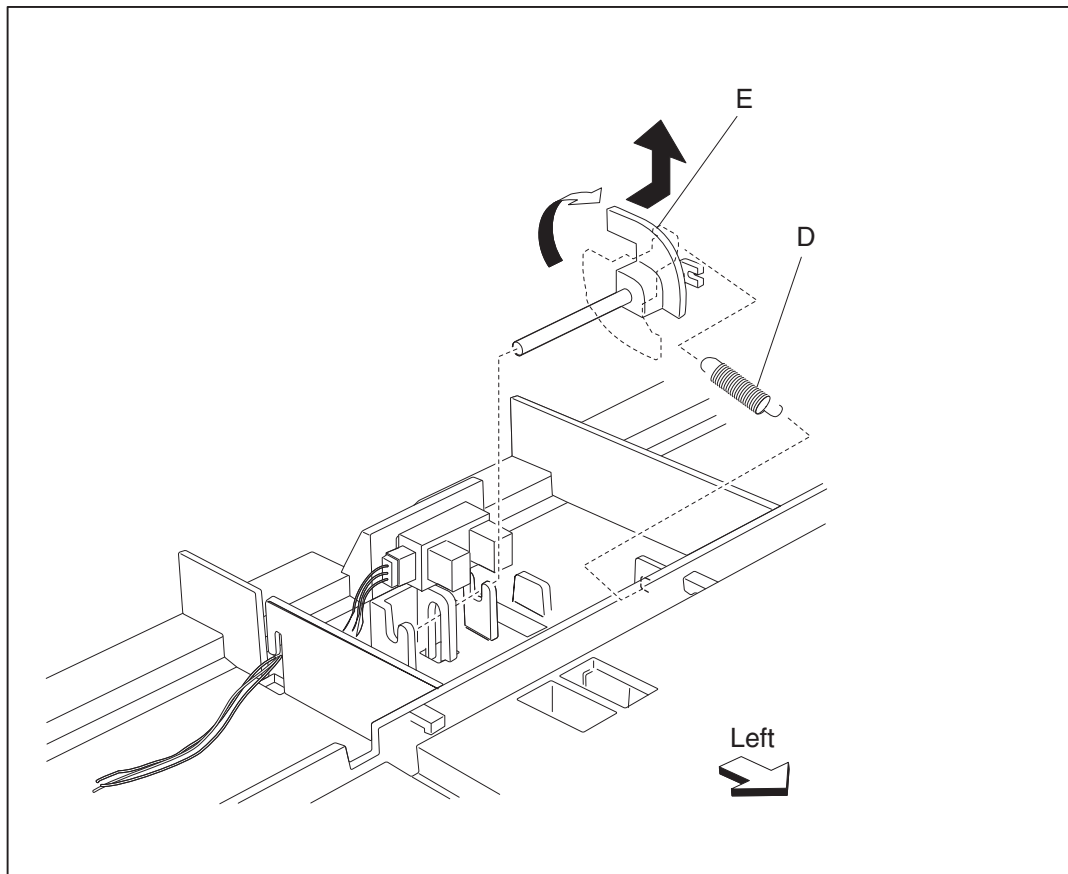


Next



Go Back

8. Remove the spring (D) from the duplex wait actuator (E).
9. Turn the duplex wait in actuator (E) 180 degrees, and move it rightward and upward in the direction of the arrow.
10. Remove the duplex wait actuator (E).



Previous



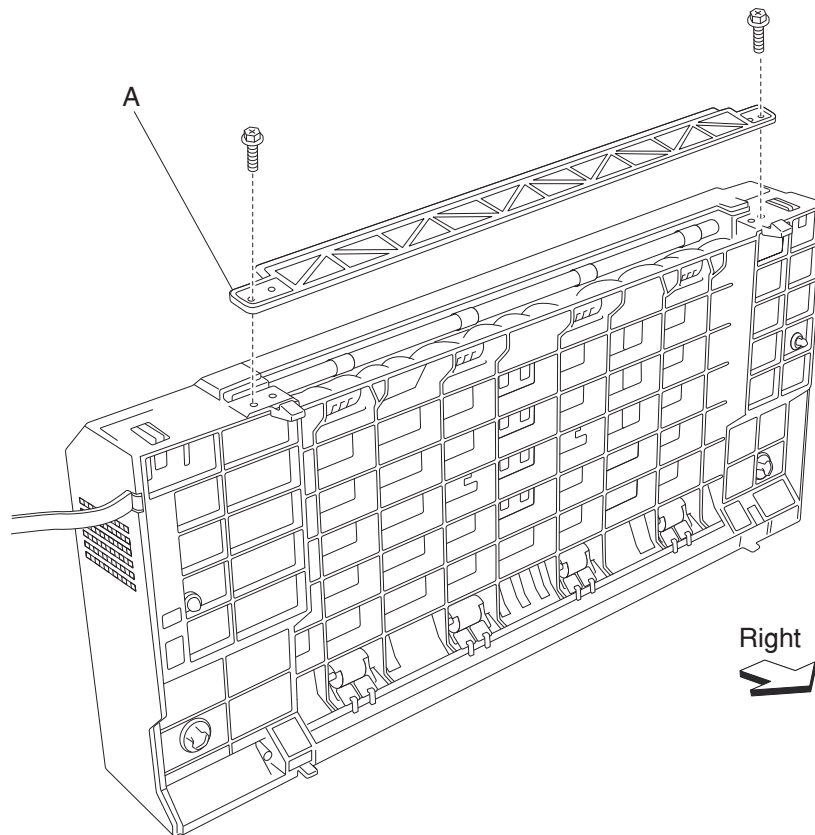
Next



Go Back

Duplex drive motor assembly removal

1. Remove the duplex unit assembly. See **“Duplex unit assembly removal”** on page 4-284.
2. Remove the two screws securing the duplex lower guide (A) to the duplex unit assembly.
3. Remove the duplex lower guide (A).



Previous

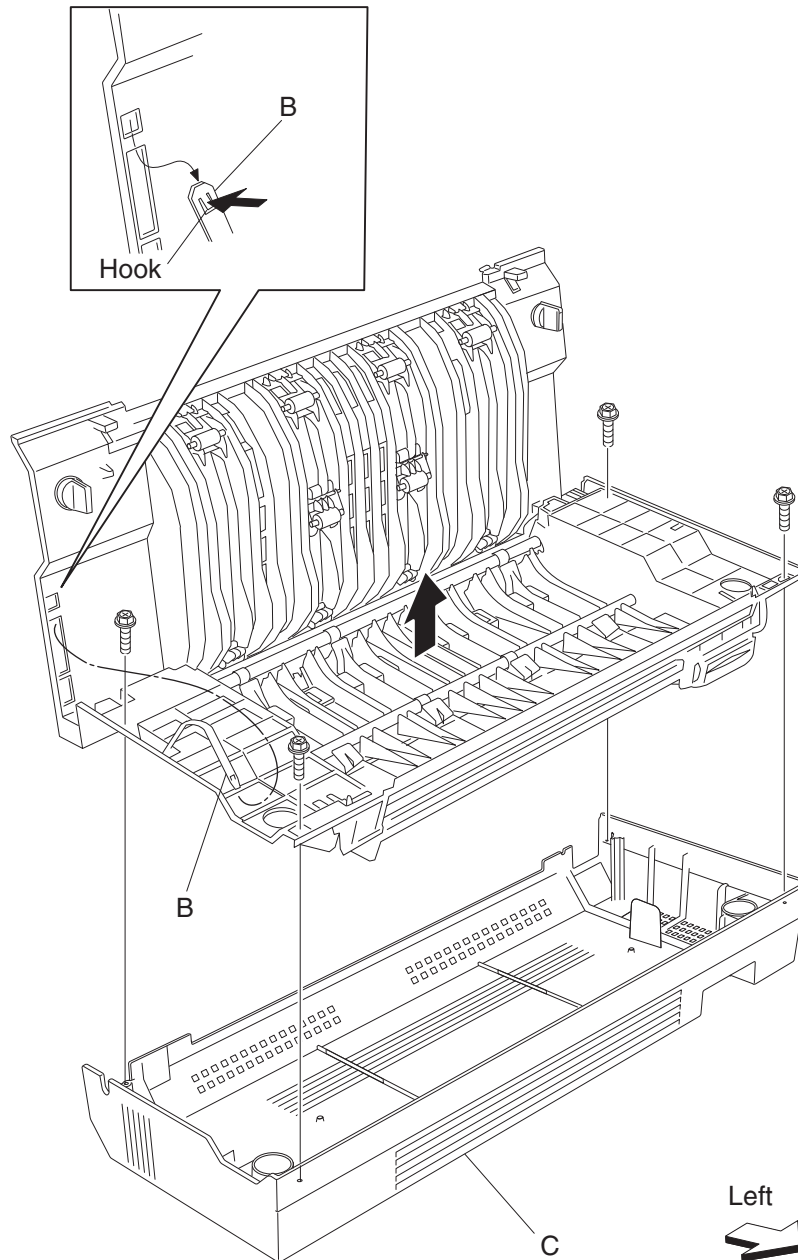


Next



Go Back

4. Open the duplex unit assembly.
5. Release the hook of the duplex left door support strap (B) securing the duplex left cover (C) to the duplex unit assembly.
6. Remove the four screws securing the duplex left cover (C) to the duplex unit assembly.
7. Remove the duplex left cover (C).



Previous



Next



Go Back

8. Disconnect the connector of the harness from the duplex motor assembly (D) to the duplex main cable assembly.
9. Release the harness from the clamps of the duplex unit assembly.
10. Remove the two screws securing the duplex drive motor assembly (E) to the duplex unit assembly.
11. Remove the duplex drive motor assembly (E).
12. Remove the duplex drive motor duct (F) from the duplex drive motor assembly (E).
13. Remove the e-clip with a prying tool securing the duplex drive motor fan (G) to the duplex drive motor assembly (E).
14. Remove the duplex drive motor fan (G).

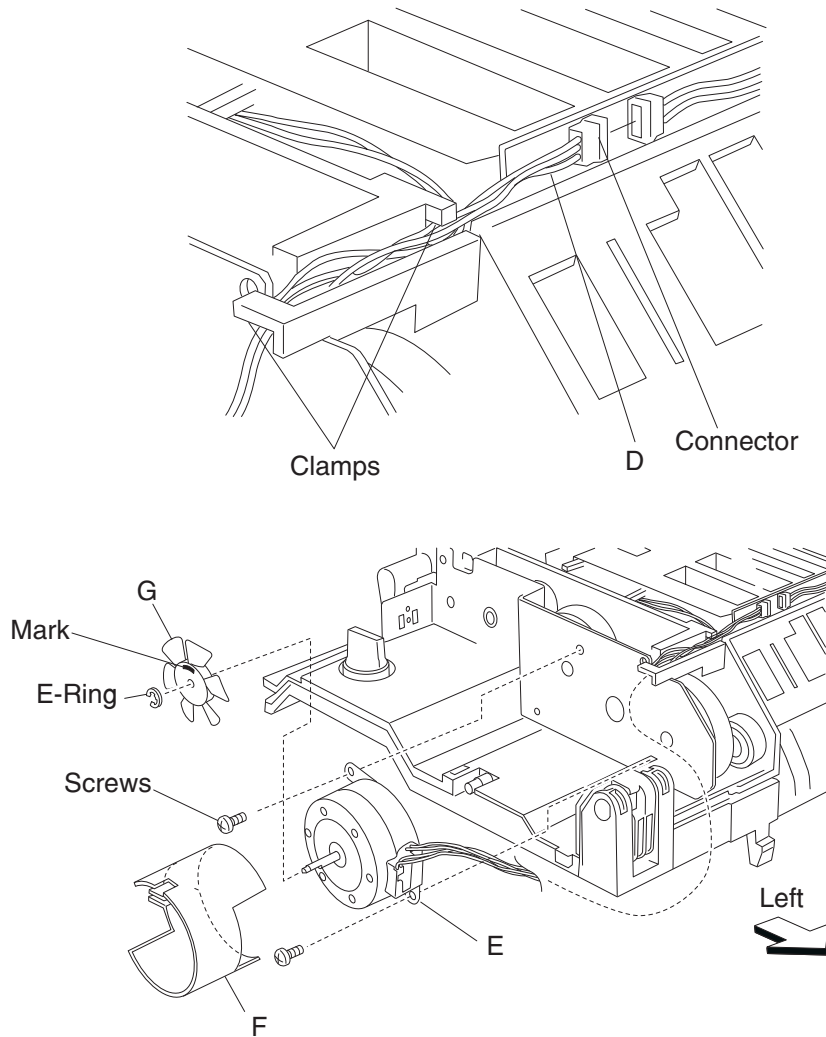
Previous



Next

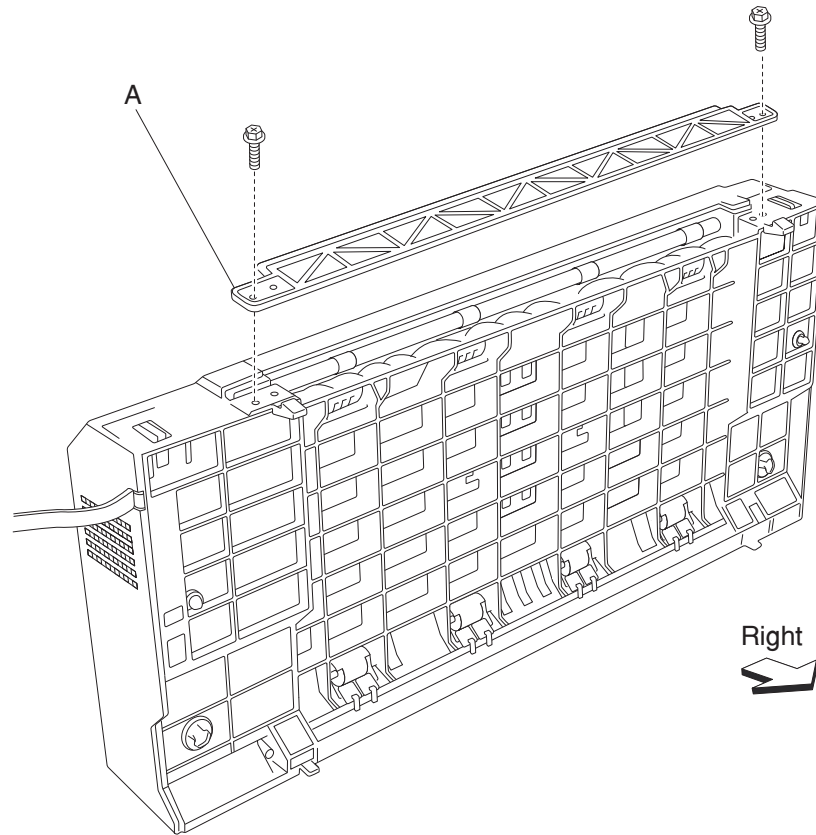


Go Back



Duplex controller card assembly removal

1. Remove the duplex unit assembly. See **“Duplex unit assembly removal”** on page 4-284.
2. Remove the two screws securing the duplex lower guide (A) to the duplex unit assembly.
3. Remove the duplex lower guide (A).



Previous

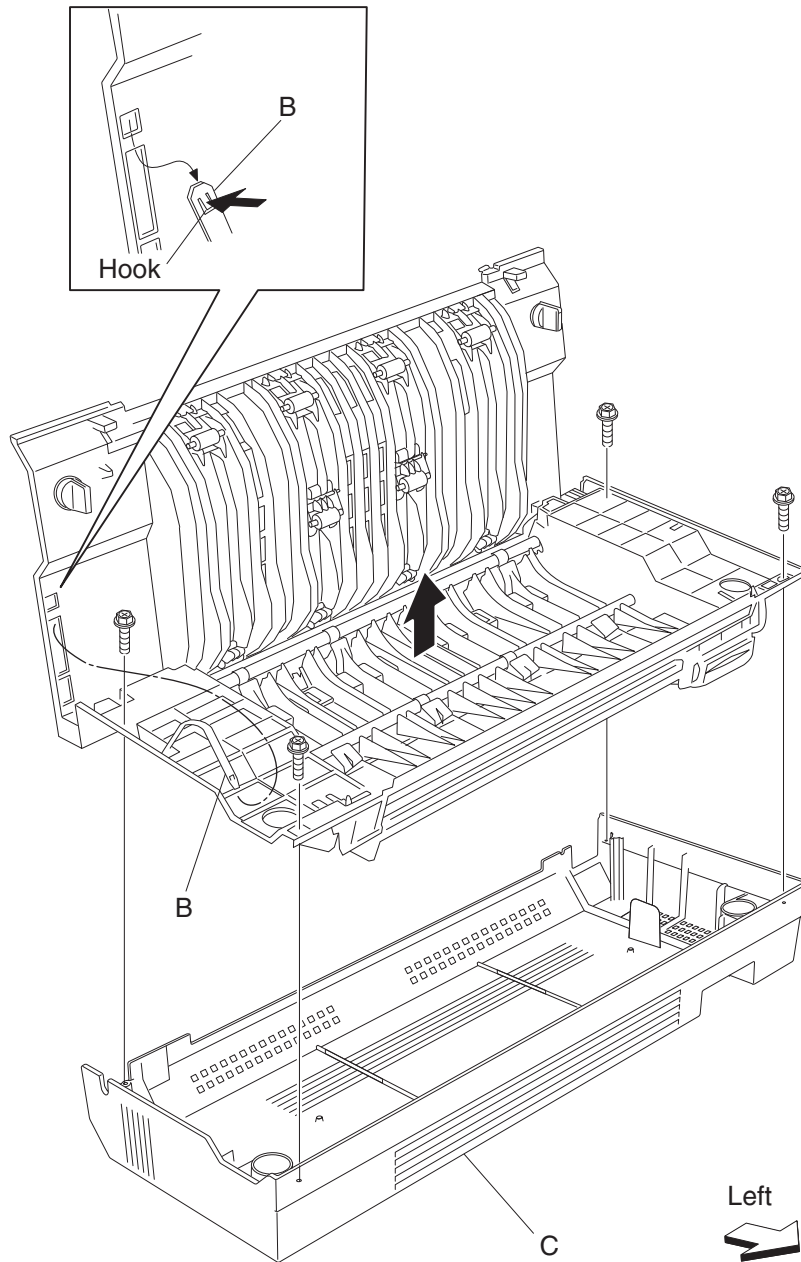


Next



Go Back

4. Open the duplex unit assembly.
5. Release the hook of the duplex left door support strap (B) securing the duplex left cover (C) to the duplex unit assembly.
6. Remove the four screws securing the duplex left cover (C) to the duplex unit assembly.
7. Remove the duplex left cover (C).



Previous

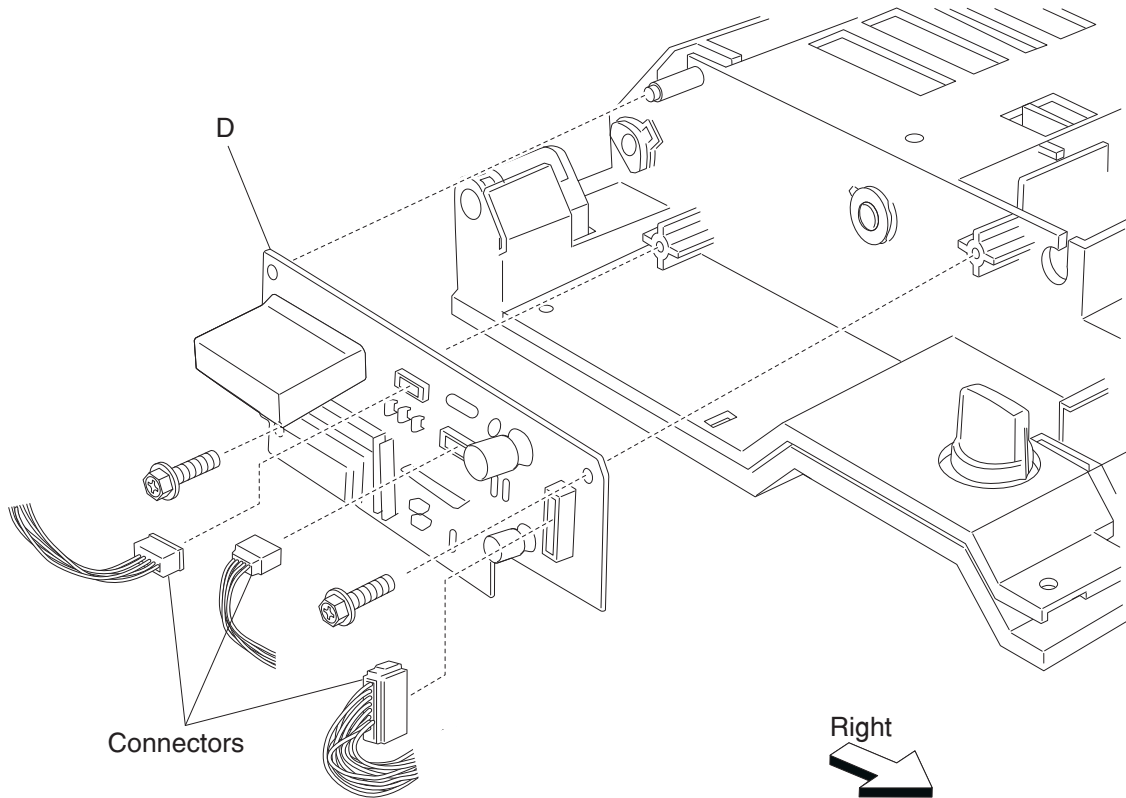


Next



Go Back

8. Disconnect all the connectors to the duplex controller card assembly (D).
9. Remove the two screws securing the duplex controller card assembly (D) to the duplex unit assembly.
10. Remove the duplex controller card assembly (D).



Previous



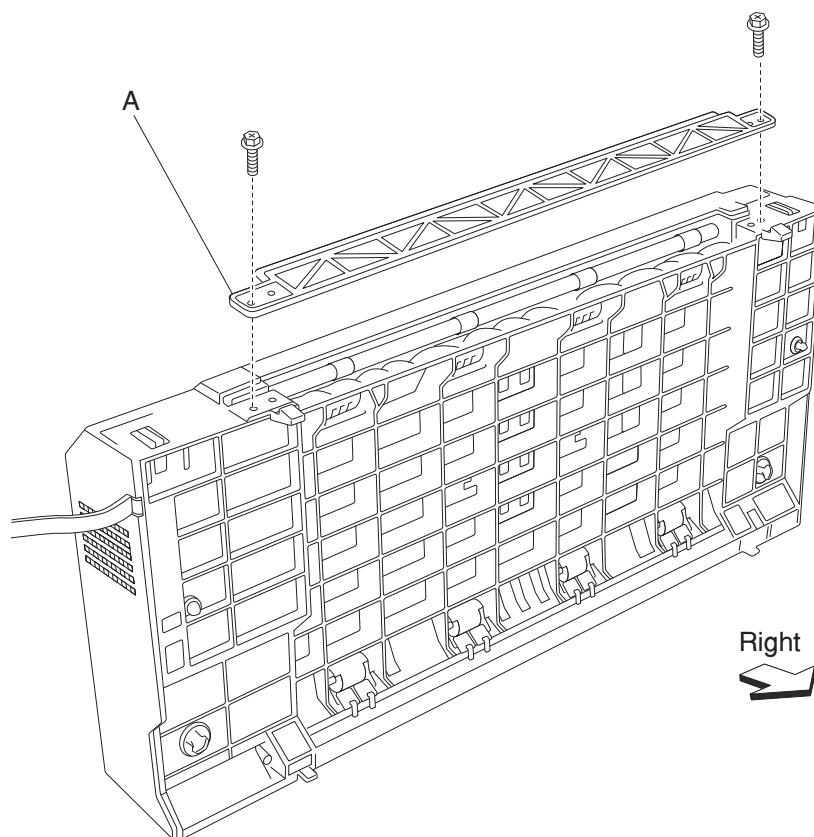
Next



Go Back

Duplex sensor (duplex wait) removal

1. Remove the duplex unit assembly. See **“Duplex unit assembly removal”** on page 4-284.
2. Remove the two screws securing the duplex lower guide (A) to the duplex unit assembly.
3. Remove the duplex lower guide (A).



Previous

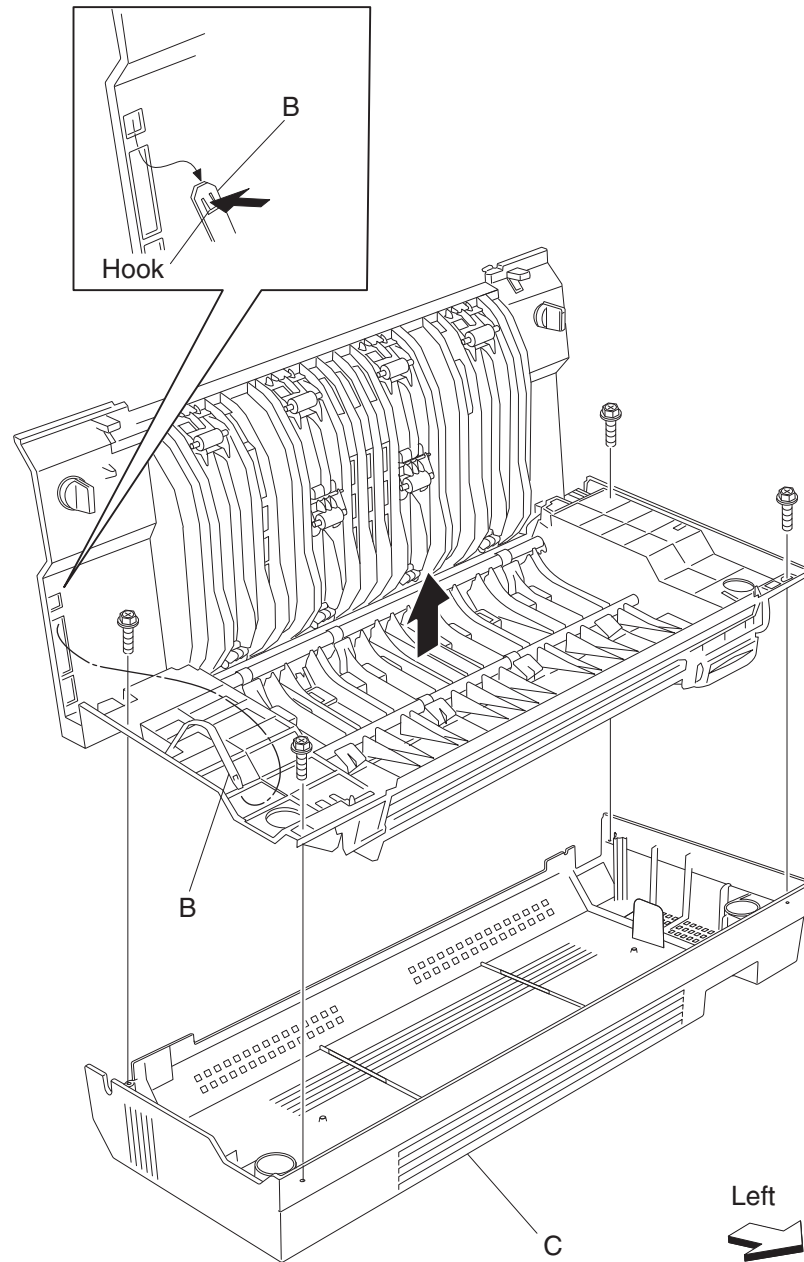


Next



Go Back

4. Open the duplex unit assembly.
5. Release the hook of the duplex left door support strap (B) securing the duplex left cover (C) to the duplex unit assembly.
6. Remove the four screws securing the duplex left cover (C) to the duplex unit assembly.
7. Remove the duplex left cover (C).



Previous

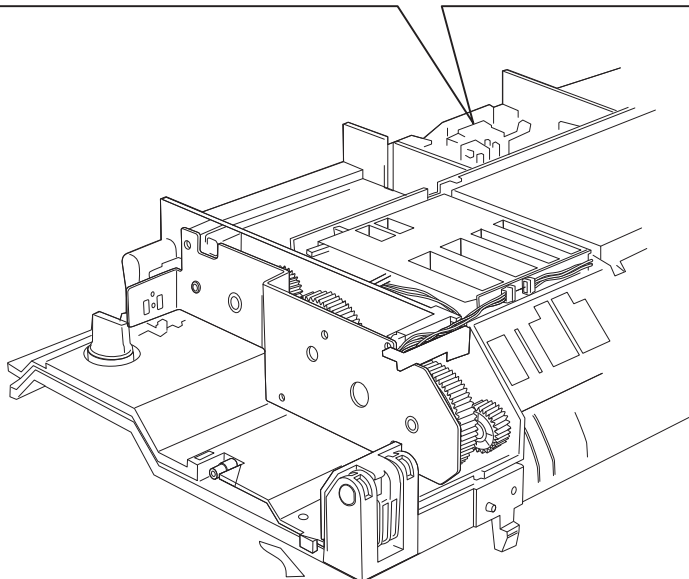
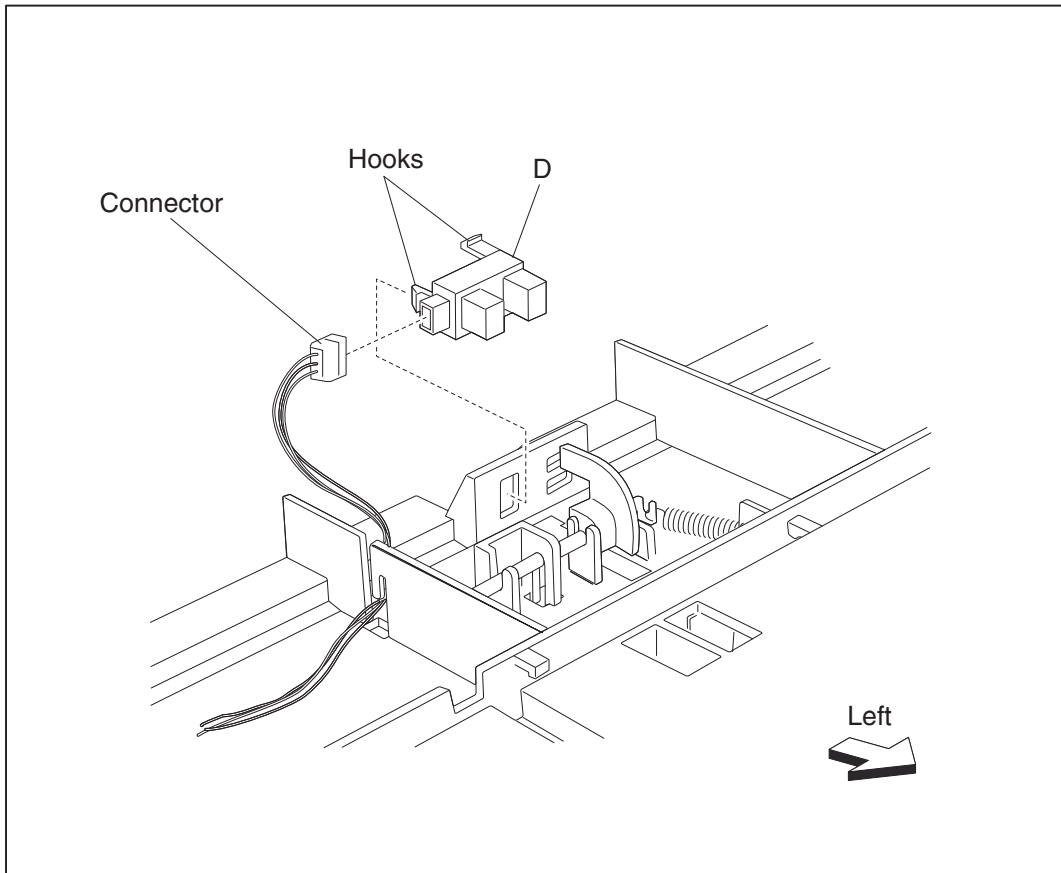


Next



Go Back

8. Disconnect the connector of the harness from the sensor (duplex wait) (D).
9. Release the hooks securing the sensor (duplex wait) (D) to the duplex unit assembly.
10. Remove the sensor (duplex wait) (D).



Previous



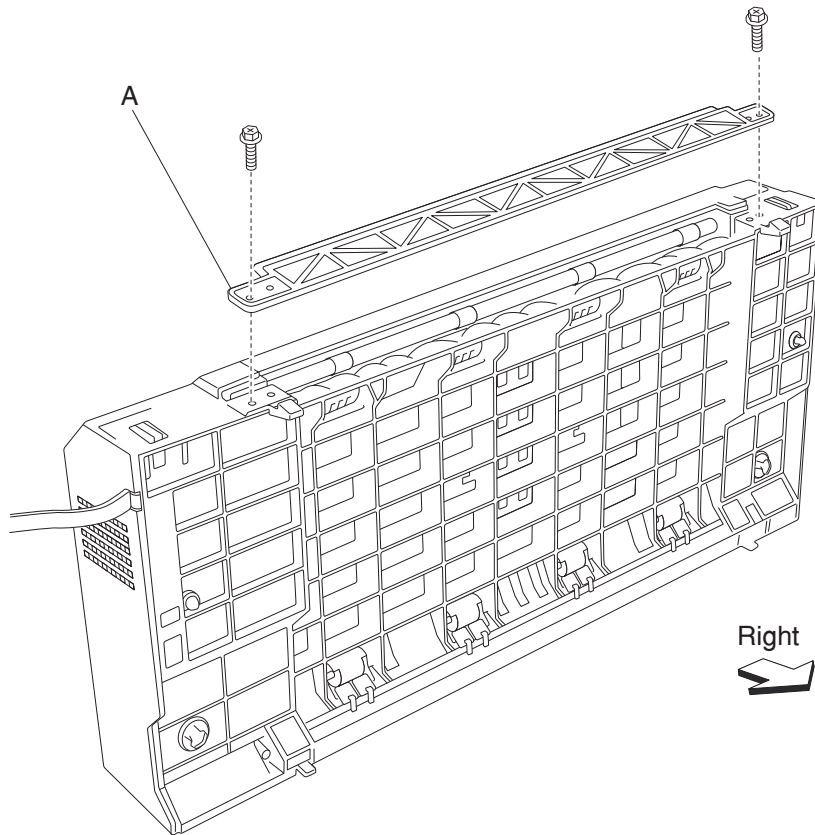
Next



Go Back

Duplex access handle removal

1. Remove the duplex unit assembly. See **“Duplex unit assembly removal”** on page 4-284.
2. Remove the two screws securing the duplex lower guide (A) to the duplex unit assembly.
3. Remove the duplex lower guide (A).



Previous

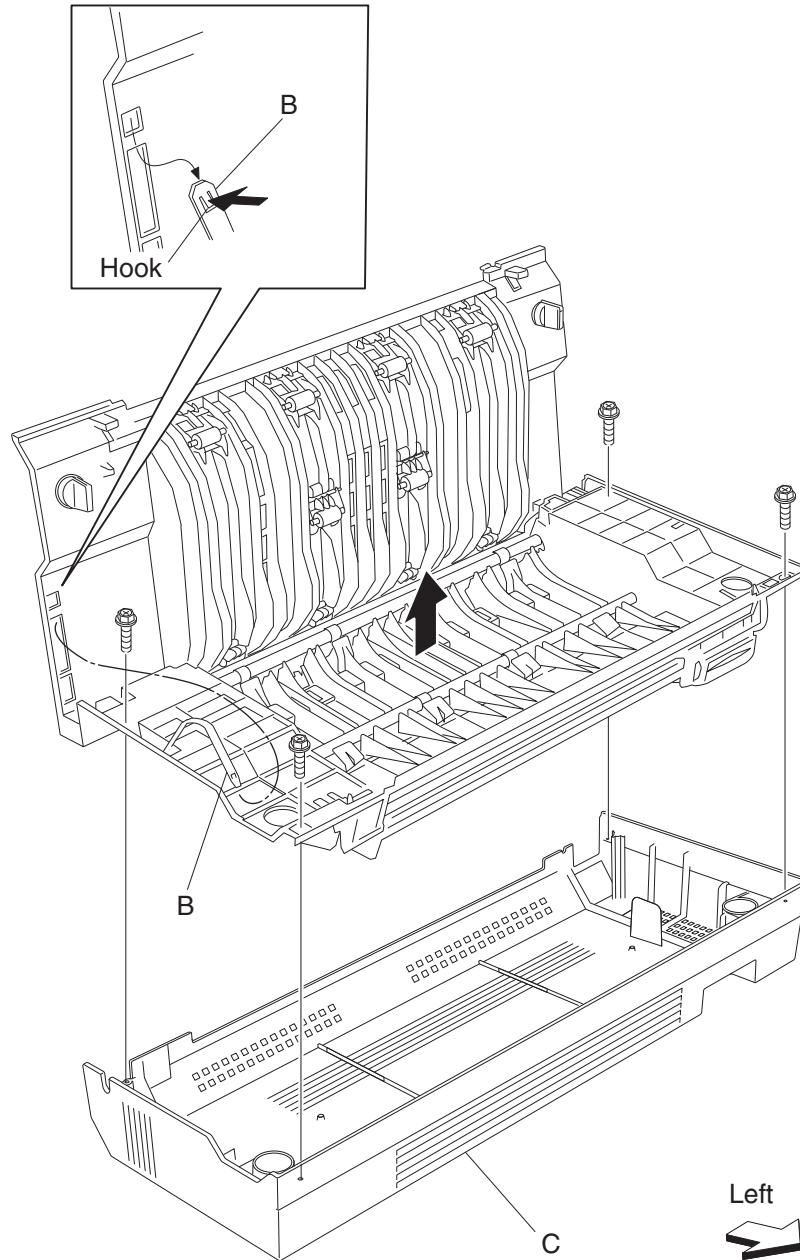


Next



Go Back

4. Open the duplex unit assembly.
5. Release the hook of the duplex left door support strap (B) securing the duplex left cover (C) to the duplex unit assembly.
6. Remove the four screws securing the duplex left cover (C) to the duplex unit assembly.
7. Remove the duplex left cover (C).



Previous

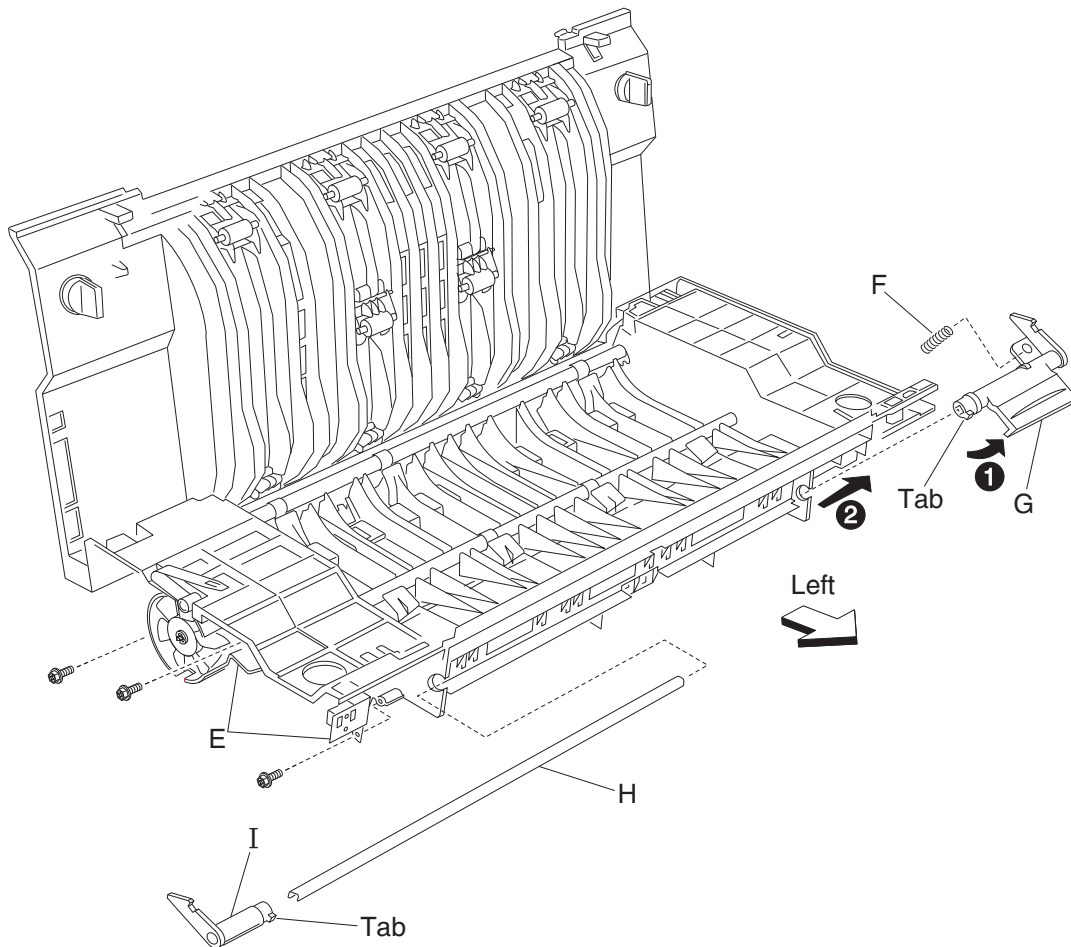


Next



Go Back

8. Remove the three screws securing the bracket (E) to the duplex unit assembly.
9. Remove the bracket (E).
10. Remove the spring (F).
11. Rotate the duplex left door handle (G) upward, and move in the direction of the arrow.
Note: The metal shaft (H) may become detached.
12. Remove the duplex left door handle (G).
13. Rotate the duplex left door handle latch (I) upward, and move in the direction of the arrow.
14. Remove the duplex left door handle latch (I).



Previous



Next

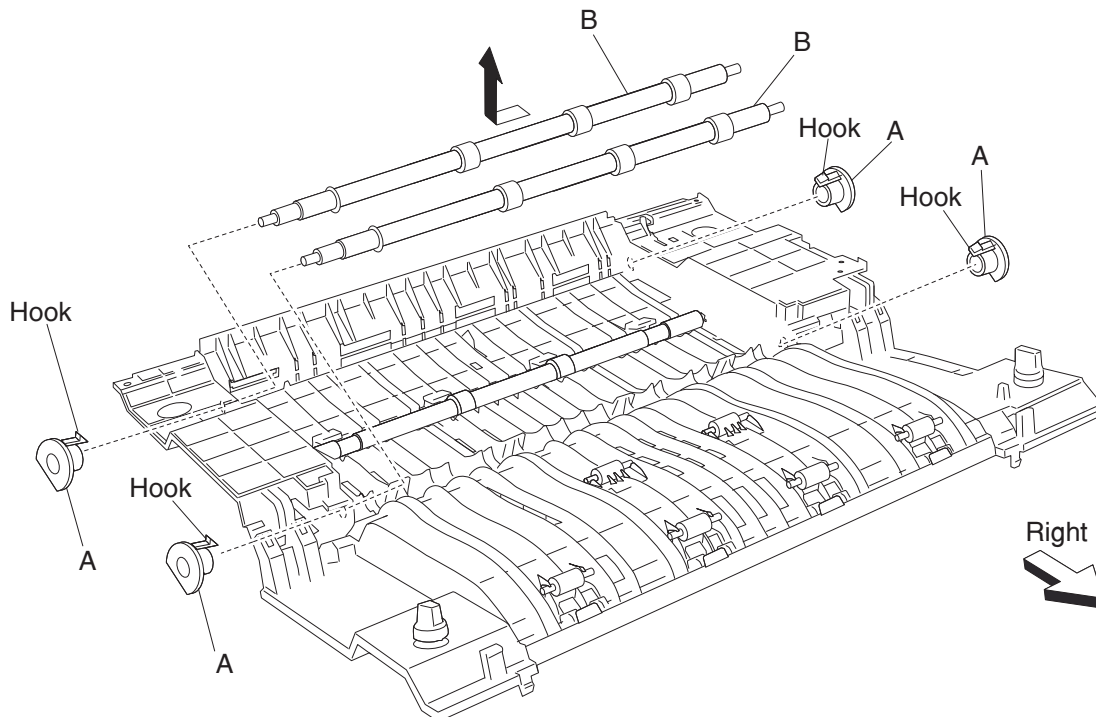


Go Back

Duplex media transport rolls removal

1. Remove the duplex unit assembly. See **“Duplex unit assembly removal”** on page 4-284.
2. Remove the duplex assembly. See **“Duplex controller card assembly removal”** on page 4-311.
3. Remove the duplex drive gears 28T. See **“Duplex drive gear 28 tooth removal”** on page 4-290.
4. Remove the hooks of the four bushings (A) securing the two duplex media transport rolls (B) to the duplex unit assembly.
5. Remove the two duplex media transport rolls (B).

Note: When removing the two duplex media transport rolls (B), do not touch the rubber surface.



Note: When replacing the two duplex media transport rolls (B), do not touch the rubber surface.

Previous



Next

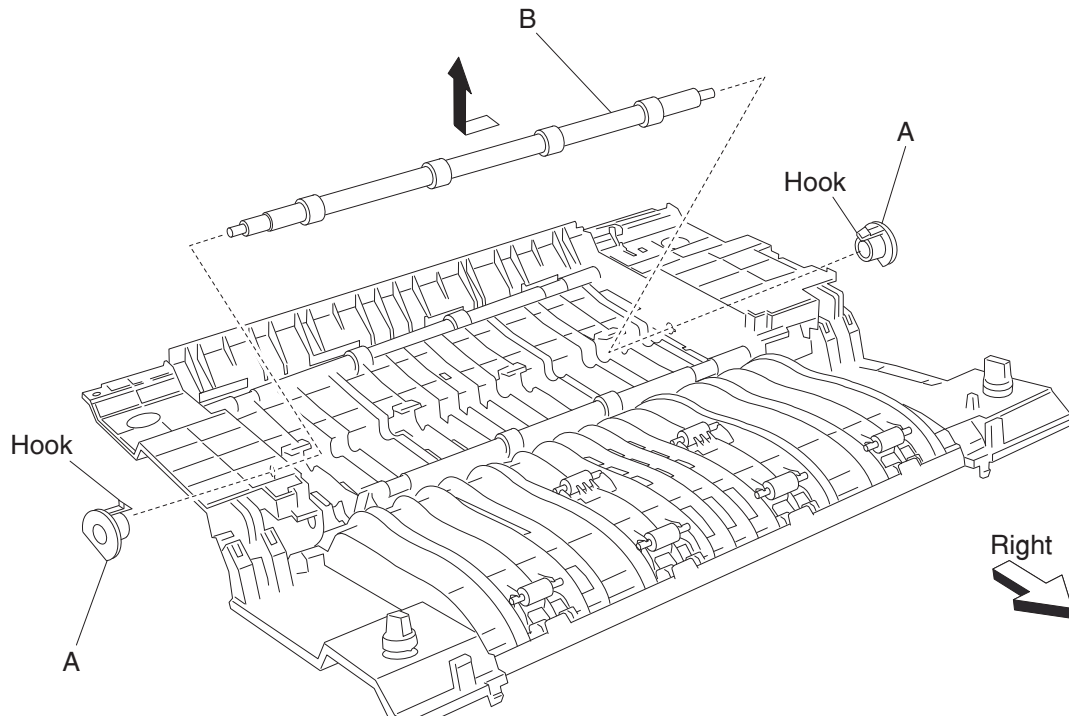


Go Back

Duplex media center transport roll removal

1. Remove the duplex unit assembly. See **“Duplex unit assembly removal”** on page 4-284.
2. Remove the duplex controller card assembly. See **“Duplex controller card assembly removal”** on page 4-311.
3. Remove the hooks of the two bushings (A) securing the duplex media transport center roll (B) to the duplex unit assembly.
4. Remove the duplex media center transport roll (B).

Note: When removing the duplex media center transport roll (B), do not touch the rubber surface.



Note: When replacing the duplex media center transport roll (B), do not touch the rubber surface.

Previous



Next

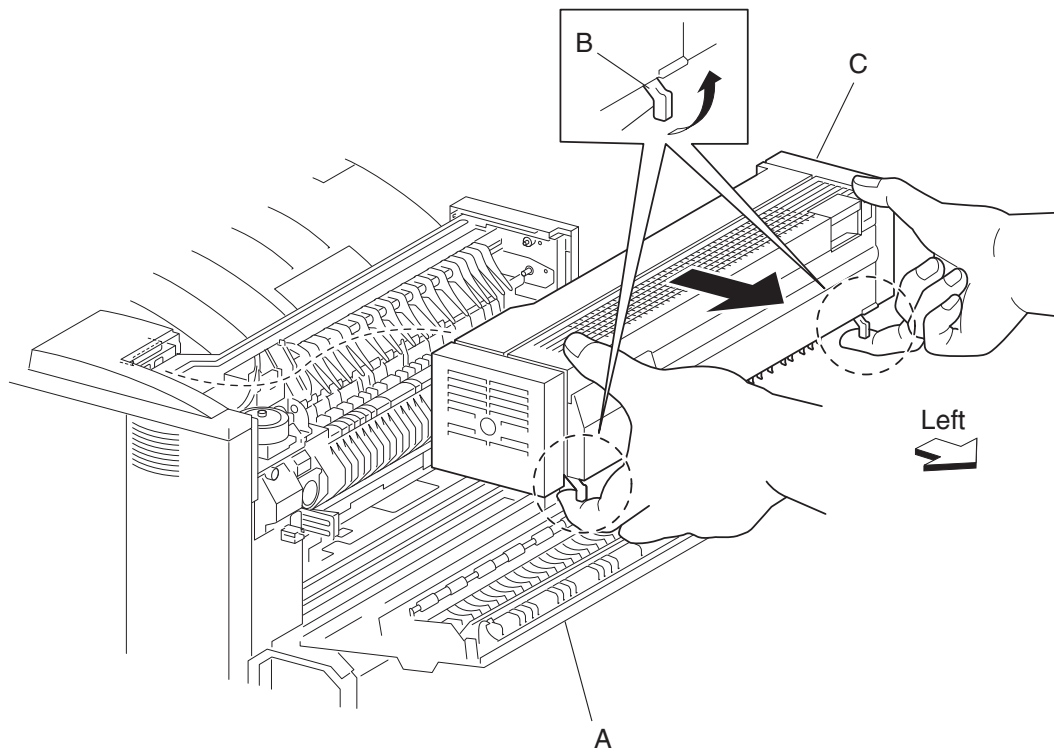


Go Back

Exit 2 removals

Exit 2 unit assembly removal

1. Open the printer left door assembly (A).
2. Lift the two levers (B) while pulling the exit 2 unit (C) outward in the direction of the arrow.
3. Remove the exit 2 unit (C).
Note: The rear side of the exit 2 unit (C) may require some force to disengage the electrical connector.



Note: Before reinstalling, ensure the exit 2 (C) unit is properly aligned and the electrical connector is properly connected.

Previous



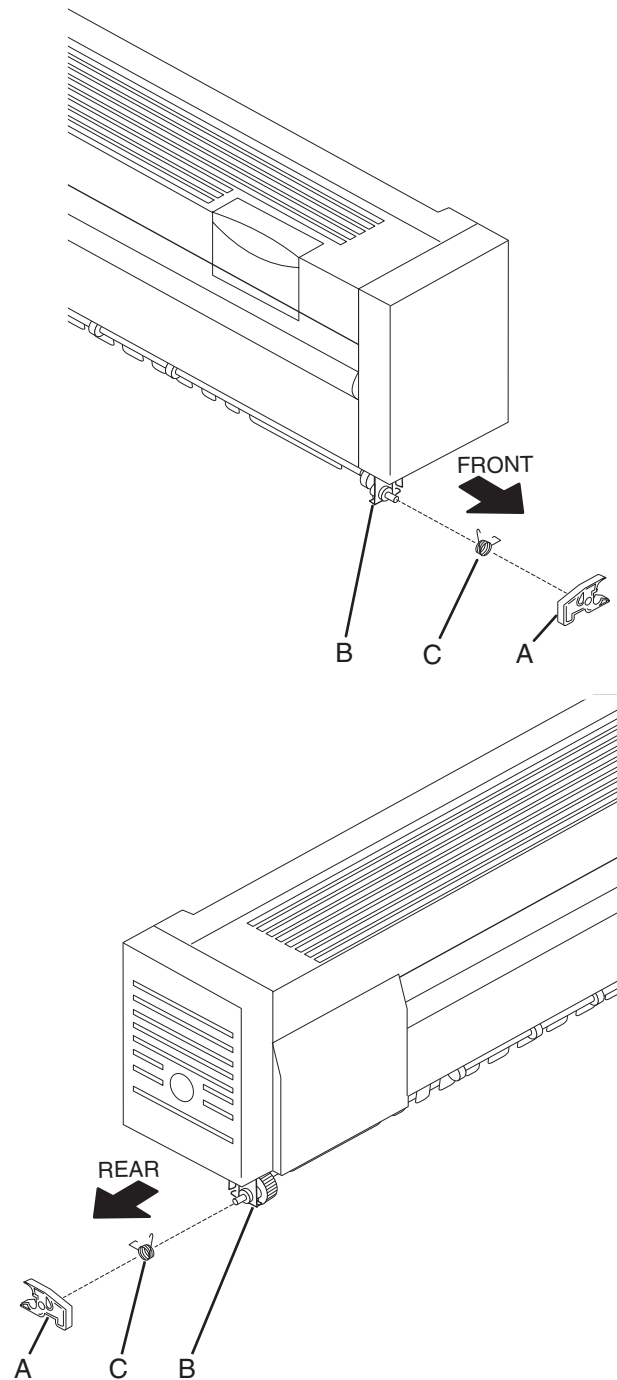
Next



Go Back

Exit 2 unit docking lever removal

1. Remove the exit 2 unit assembly. See **“Exit 2 unit assembly removal”** on page 4-322.
2. Remove the two exit 2 unit docking levers (A) with a prying tool from the brackets (B).
Note: When removing the two exit 2 docking levers, ensure the brackets (B) are not bent or deformed.
3. Remove the springs (C) from the brackets (B).



Exit 2 left door handle removal

Previous

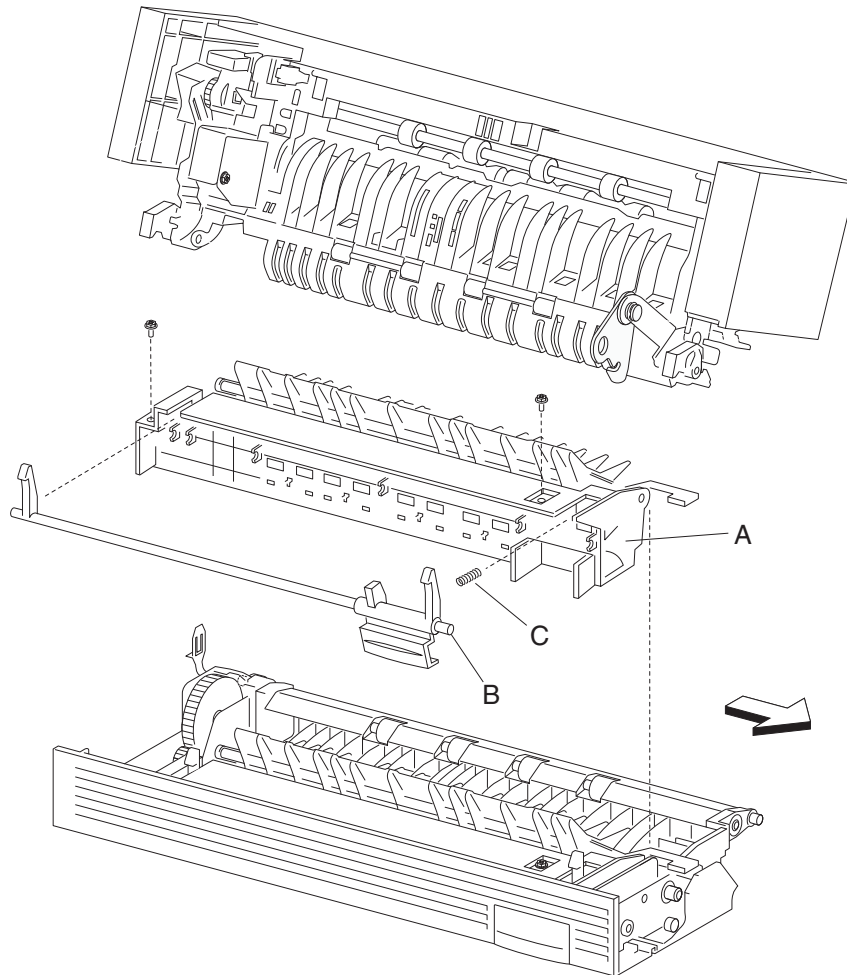


Next



Go Back

1. Remove the exit 2 unit assembly. See **“Exit 2 unit assembly removal”** on page 4-322.
2. Open the exit 2 unit assembly.
3. Remove two screws securing the upper guide assembly (A) to the exit 2 unit assembly.
4. Remove the upper guide assembly (A).
Note: The exit 2 left door handle (B) may become detached.
5. Remove the exit 2 left door handle (B) from the upper guide assembly (A).
6. Remove the spring (C) from the upper guide assembly (A).
Note: After reinstalling the upper guide assembly (A), ensure the exit 2 left door handle (B) operates freely.



Previous



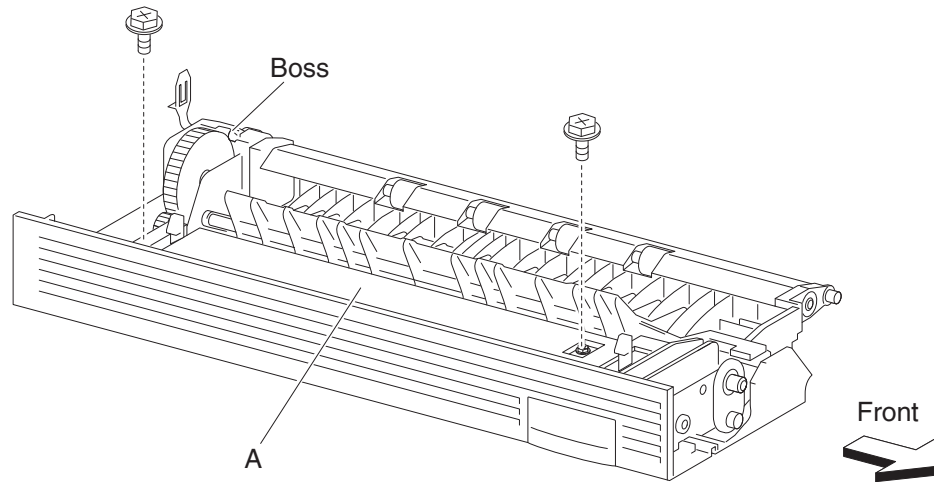
Next



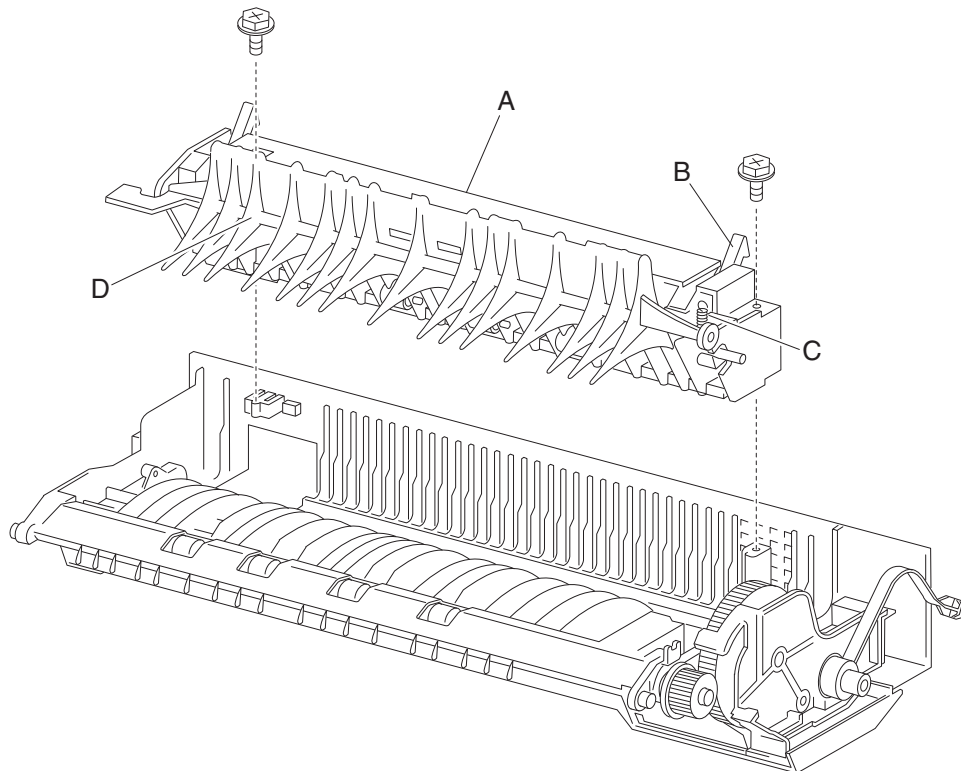
Go Back

Exit 2 diverter gate removal

1. Remove the exit 2 unit assembly. See **“Exit 2 unit assembly removal”** on page 4-322.
2. Open the exit 2 unit assembly.
3. Remove two screws securing the upper guide assembly (A) to the exit 2 unit assembly.



4. Remove the upper guide assembly (A).
Note: The exit 2 access handle (B) may become detached.
5. Remove the spring (C) connecting the exit 2 diverter gate (D) to the upper guide assembly (A).
6. Gently flex the mounting points securing the exit 2 diverter gate (D) to the upper guide assembly (A).
7. Remove the exit 2 diverter gate (D)



Note: After reinstalling the upper guide assembly (A), ensure the exit 2 access handle (B) operates freely.

Exit 2 left cover removal

Previous

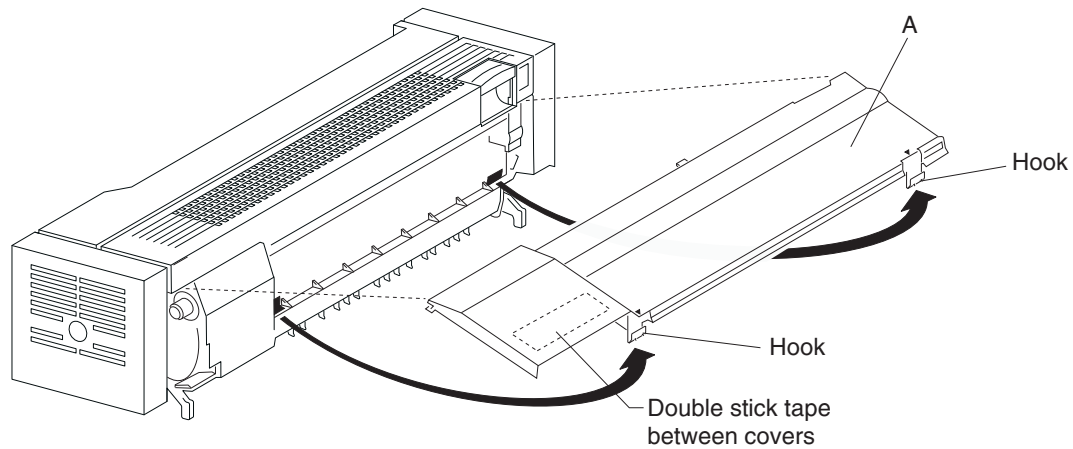


Next



Go Back

1. Remove the exit 2 unit assembly. See **“Exit 2 unit assembly removal”** on page 4-322.
2. Open the exit 2 unit assembly.
3. Release two hooks securing the exit 2 left cover (A) to the exit 2 unit assembly.
4. Move the exit 2 left cover (A) downward and outward in the direction of the arrow.
5. Remove the exit 2 left cover (A).
Note: Extra force is required on the rear of the exit 2 left cover to break the seal of the double stick tape.



Previous



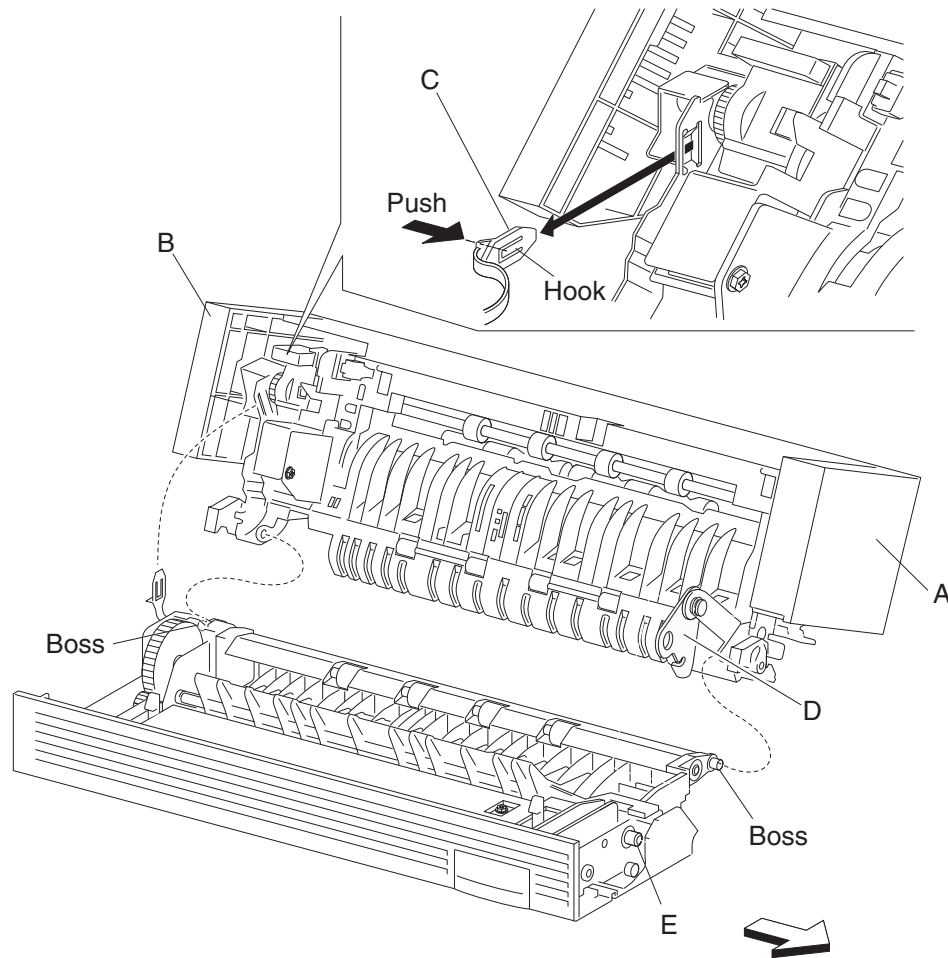
Next



Go Back

Exit 2 right cover removal

1. Remove the exit 2 unit assembly. See **“Exit 2 unit assembly removal”** on page 4-322.
2. Open the exit 2 unit assembly.
3. Remove the exit 2 left cover. See **“Exit 2 left cover removal”** on page 4-325.
4. Remove the one screw securing the exit 2 front cover (A) to the exit 2 unit assembly.
5. Remove the exit 2 front cover (A).
6. Remove one screw securing the exit 2 rear cover (B).
7. Move the exit 2 rear cover (B) upward and outward in the direction of the arrow.
8. Remove the exit 2 rear cover (B).
9. Release the hook of the exit 2 support strap (C).
10. Gently remove the link (D) from the bracket (E).



Previous

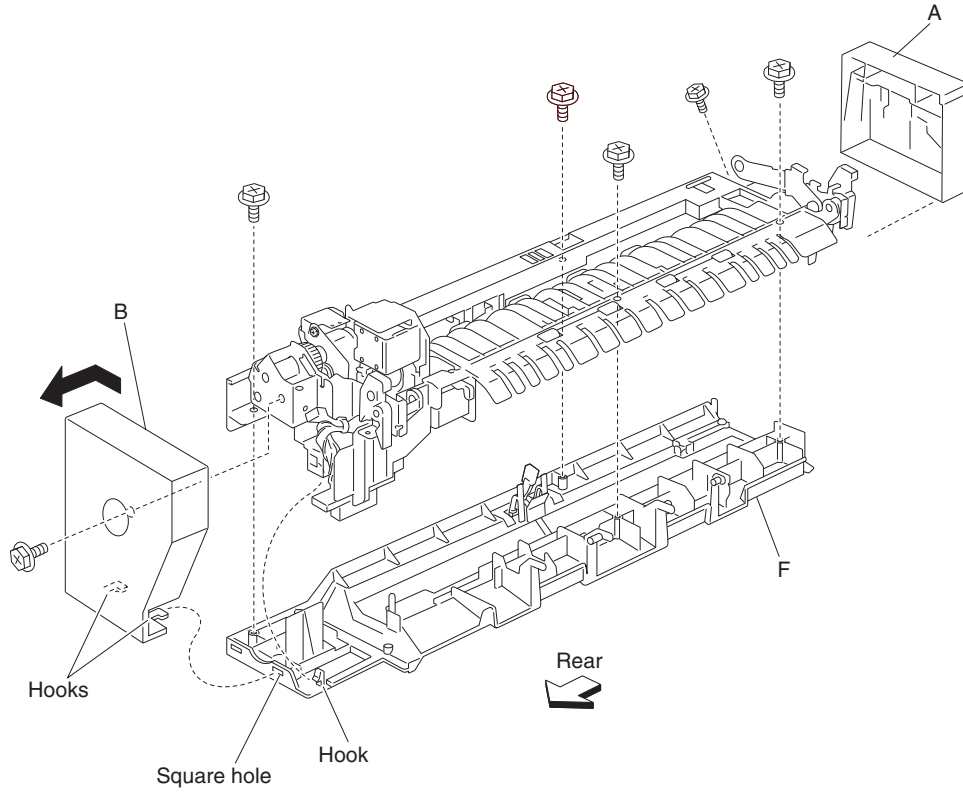


Next



Go Back

11. Gently pry apart, with a flat tip screwdriver, the boss on the right then the one on the left to separate the exit 2 unit assembly into two pieces.
Note: The exit 2 unit assembly should be in two pieces.
12. Remove the four screws securing the exit 2 right cover assembly (F) to the exit 2 unit assembly.
13. Release two hooks securing the exit 2 right cover assembly (F) to the exit 2 unit assembly.
14. Remove the exit 2 right cover assembly (F).



Previous



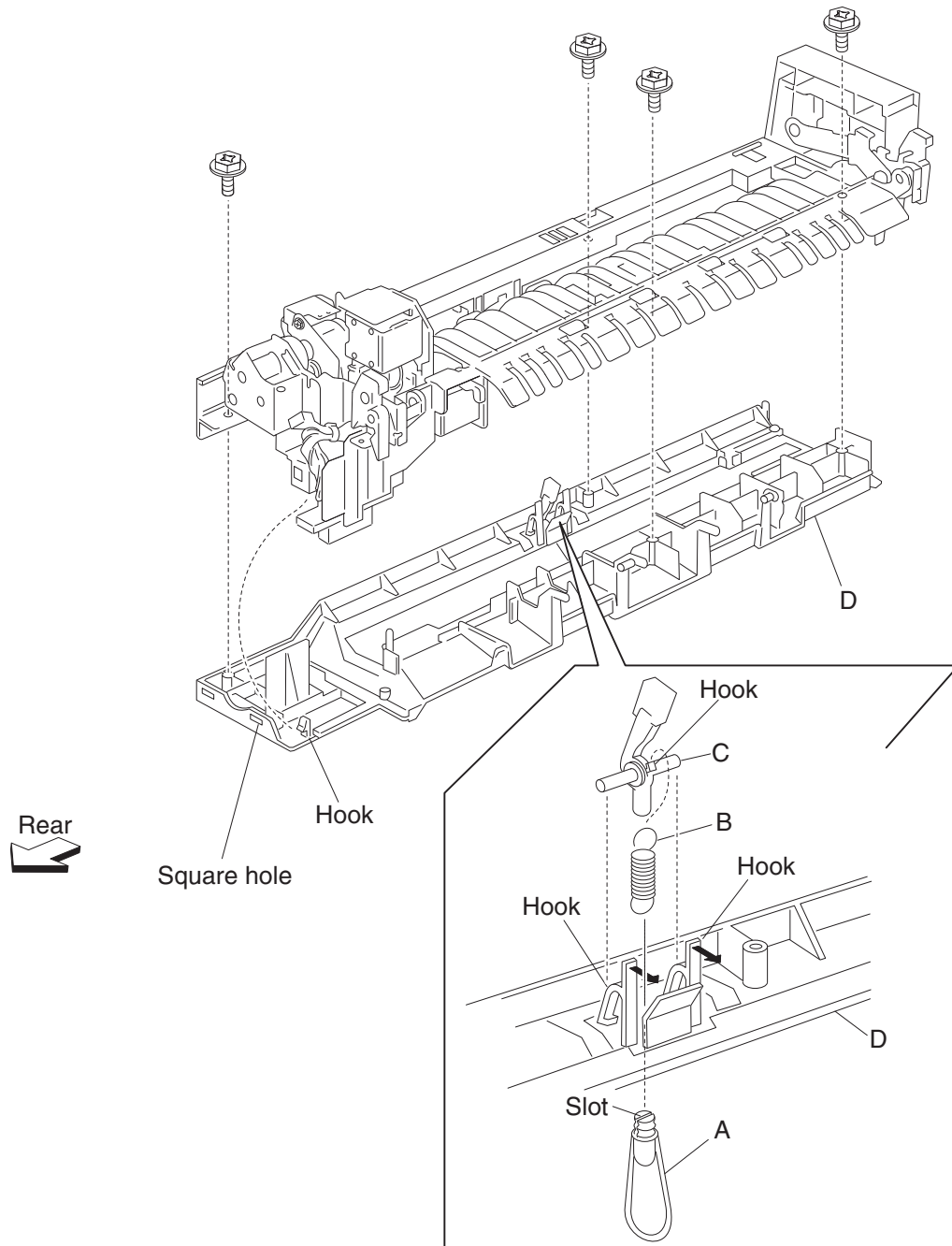
Next



Go Back

Standard bin full exit 2 actuator removal

1. Remove the exit 2 unit assembly. See **“Exit 2 unit assembly removal”** on page 4-322.
2. Open the exit 2 unit assembly (A).
3. Remove the exit 2 left cover. See **“Exit 2 left cover removal”** on page 4-325.
4. Remove the exit 2 right cover. See **“Exit 2 right cover removal”** on page 4-327.
5. Remove the standard bin full exit 2 actuator outer (A) from the spring (B).
6. Release the hooks securing the standard bin full exit 2 actuator inner (C) to the right cover (D).
7. Release the spring (B) from the hook of the standard bin full exit 2 actuator inner (C).



Previous



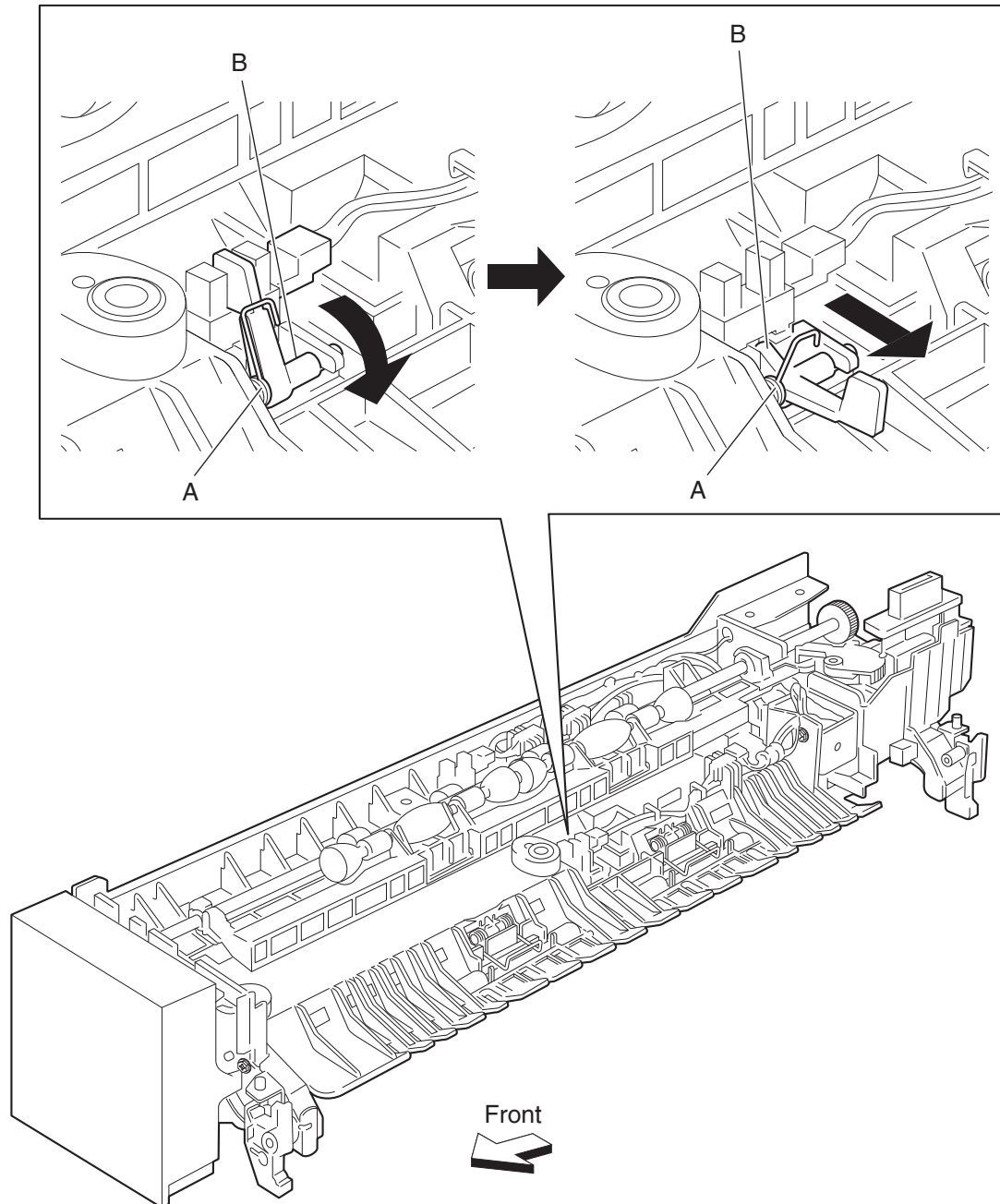
Next



Go Back

Exit 2 actuator removal

1. Remove the exit 2 unit assembly. See **“Exit 2 unit assembly removal”** on page 4-322.
2. Open the exit 2 unit assembly.
3. Remove the exit 2 left cover. See **“Exit 2 left cover removal”** on page 4-325.
4. Remove the exit 2 right cover. See **“Exit 2 right cover removal”** on page 4-327.
5. Release the spring (A) on the exit 2 actuator (B).
6. Move the exit 2 actuator (B) to the right in the direction of the arrow to release two hooks.
7. Remove the exit 2 actuator (B).
8. Remove the spring (A) from the exit 2 actuator (B).

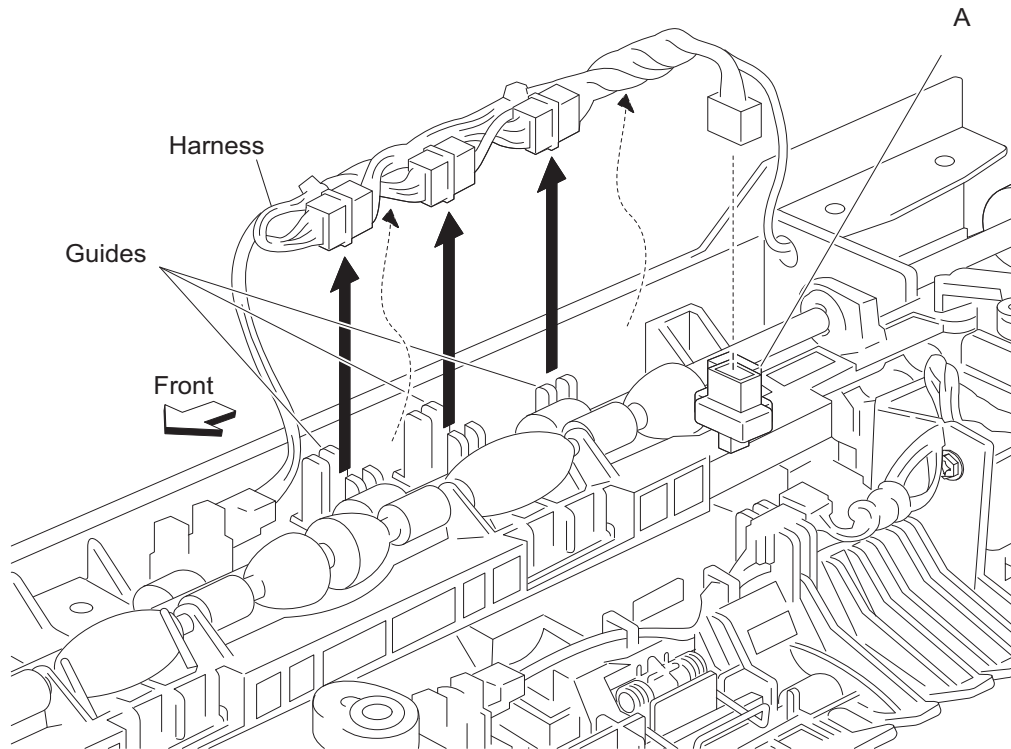


Note: Before reinstalling the exit 2 actuator (B), ensure the spring (A) is properly installed.



Exit 2 switch (exit 2 left door interlock) removal

1. Remove the exit 2 unit assembly. See **“Exit 2 unit assembly removal”** on page 4-322.
2. Open the exit 2 unit assembly.
3. Remove the exit 2 left cover. See **“Exit 2 left cover removal”** on page 4-325.
4. Remove the exit 2 right cover. See **“Exit 2 right cover removal”** on page 4-327.
5. Release the hooks securing the switch (exit 2 left door interlock) (A) to the exit 2 unit assembly.
6. Remove the switch (exit 2 door interlock) (A).



Previous

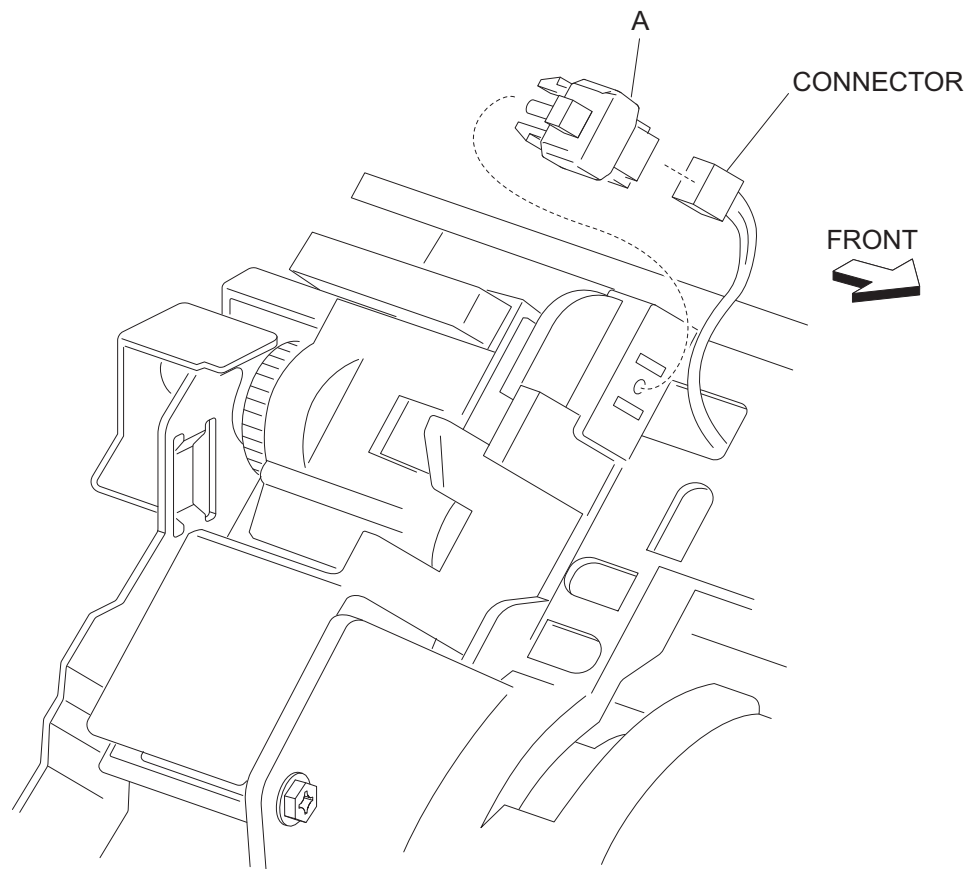


Next



Go Back

7. Remove the connector from the exit 2 switch (exit 2 left door interlock) (A).



Note: Before reinstalling the switch (exit 2 left door interlock) (A), ensure all the harnesses and connectors are properly installed.

Previous



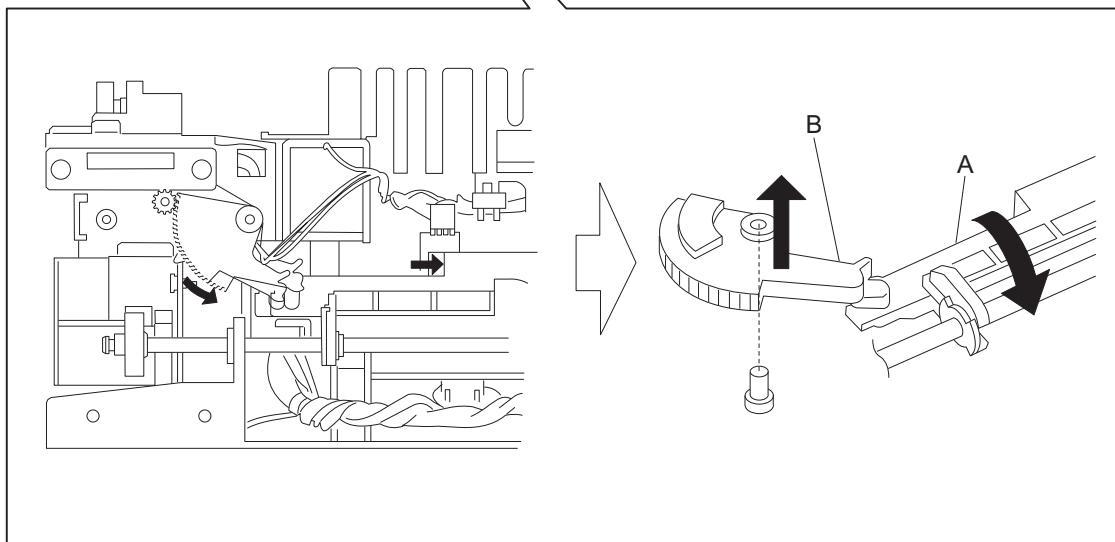
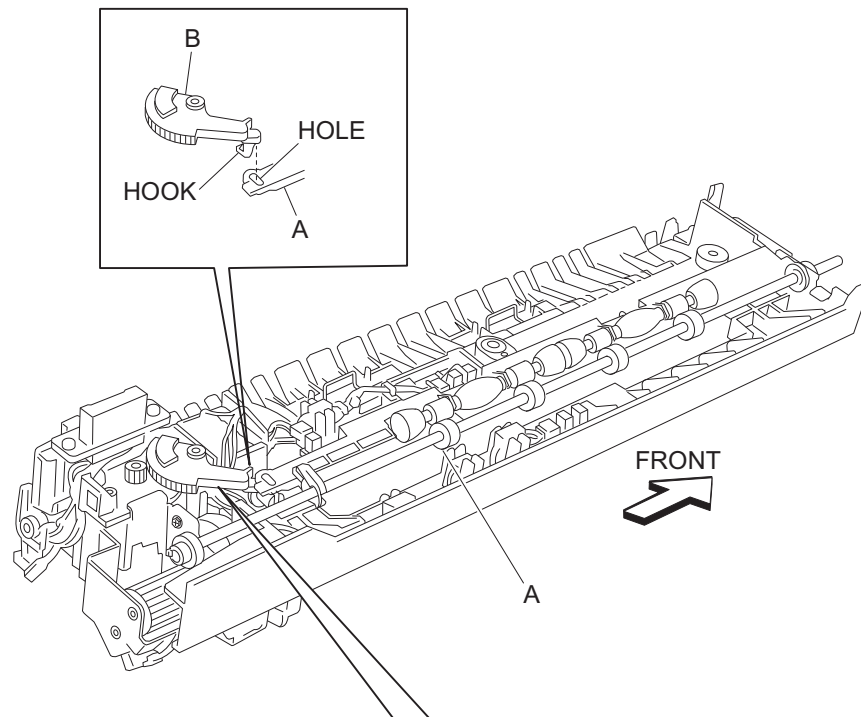
Next



Go Back

Exit 2 media shift gear removal

1. Remove the exit 2 unit assembly. See **“Exit 2 unit assembly removal”** on page 4-322.
2. Open the exit 2 unit assembly.
3. Remove the exit 2 left cover. See **“Exit 2 left cover removal”** on page 4-325.
4. Remove the exit 2 right cover. See **“Exit 2 right cover removal”** on page 4-327.
5. Move the roll assembly (A) fully to the right (front).
6. Lift the exit 2 media shift gear (B) upward to release it from the exit 2 unit assembly.
7. Release the hook on the exit 2 media shift gear (B) from the hole in the roll assembly (A).
8. Remove the exit 2 media shift gear (B).



Previous



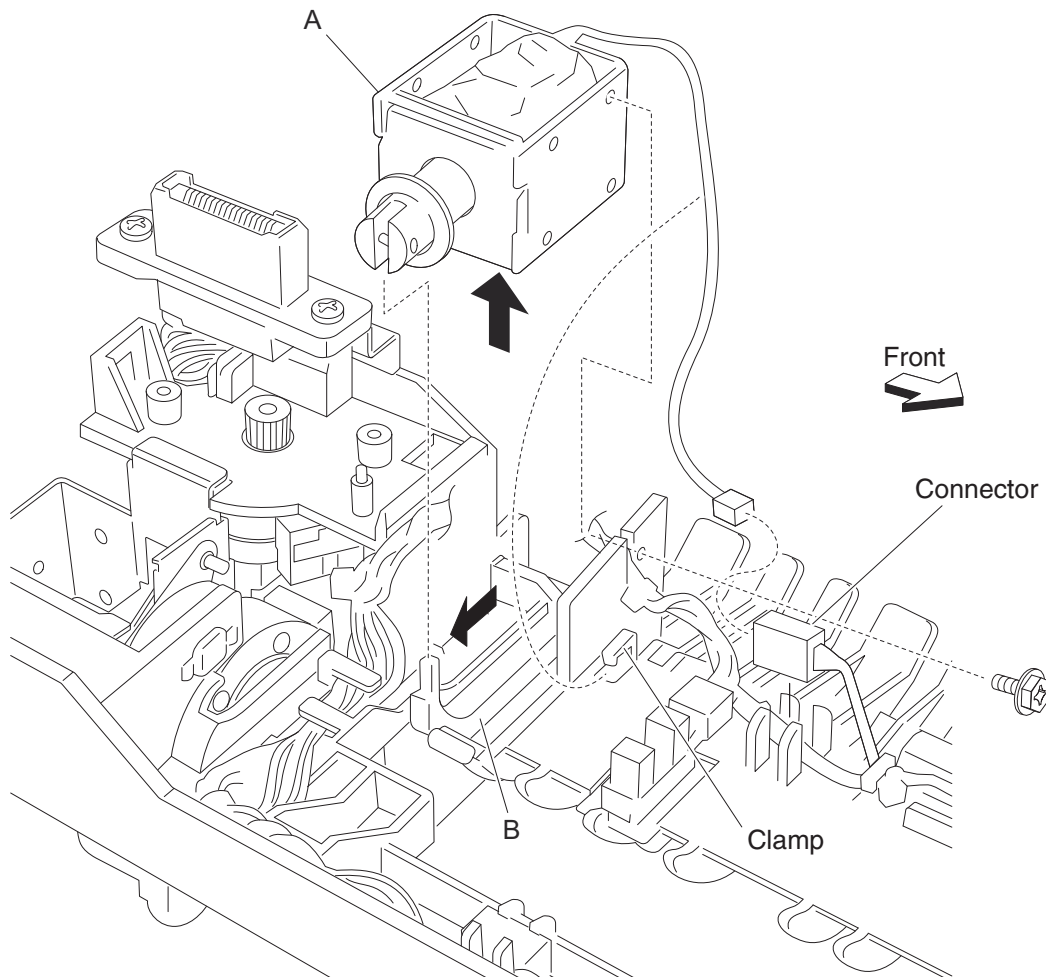
Next



Go Back

Exit 2 media diverter solenoid removal

1. Remove the exit 2 unit assembly. See **“Exit 2 unit assembly removal”** on page 4-322.
2. Open the exit 2 unit assembly.
3. Remove the exit 2 left cover. See **“Exit 2 left cover removal”** on page 4-325.
4. Remove the exit 2 right cover. See **“Exit 2 right cover removal”** on page 4-327.
5. Disconnect the media diverter solenoid (A).
6. Release the harness from the clamp.
7. Remove the screw securing the media diverter solenoid (A) to the exit 2 unit assembly.
8. Remove the media diverter solenoid (A).
9. Move the media diverter link (B) toward the top of the exit 2 unit assembly in the direction of the arrow.
10. Remove the media diverter link (B) from the media diverter solenoid (A).



Previous



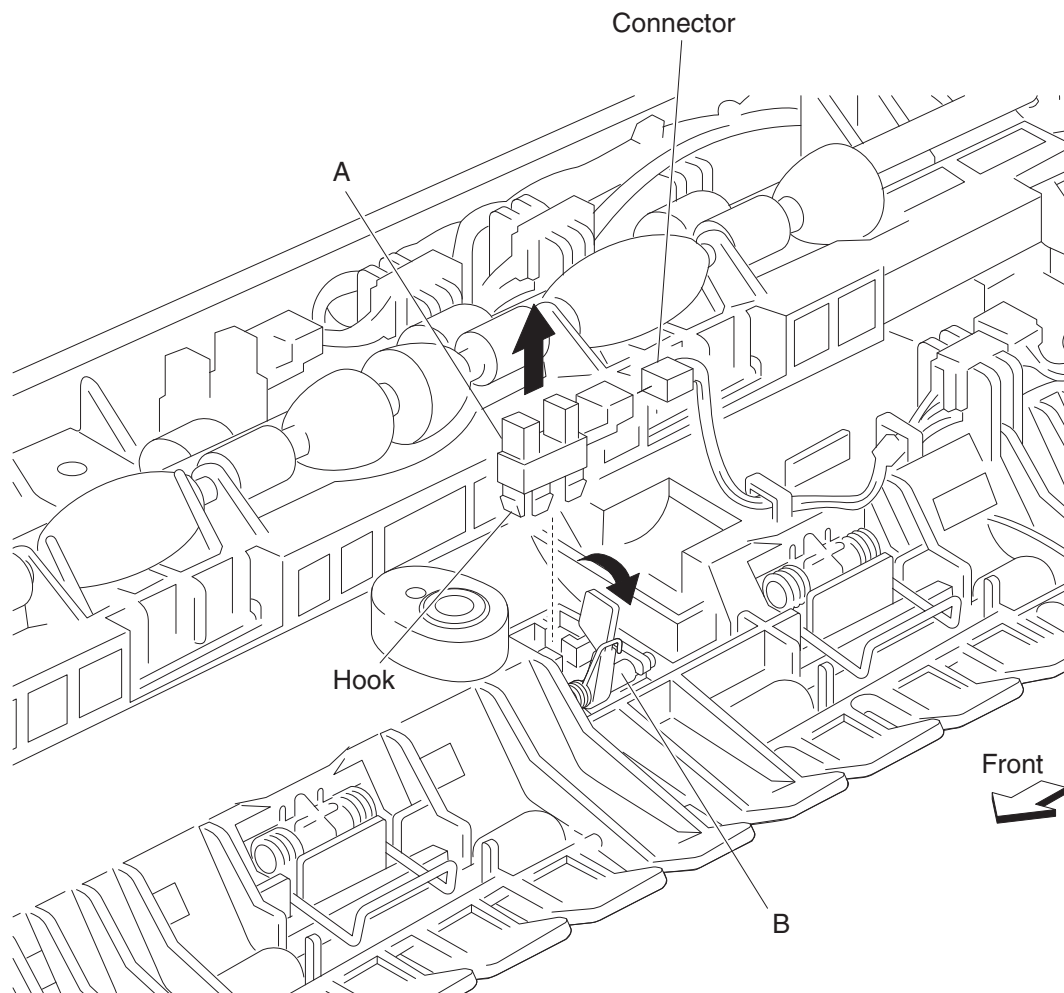
Next



Go Back

Exit 2 sensor (exit 2) removal

1. Remove the exit 2 unit assembly. See **“Exit 2 unit assembly removal”** on page 4-322.
2. Open the exit 2 unit assembly.
3. Remove the exit 2 left cover. See **“Exit 2 left cover removal”** on page 4-325.
4. Remove the exit 2 right cover. See **“Exit 2 right cover removal”** on page 4-327.
5. Disconnect the connector from the sensor (exit 2) (A).
6. Pull the exit 2 sensor (actuator) (B) back in the direction of the arrow.
7. Release the hooks securing the sensor (exit 2) (A) to the exit 2 unit assembly.
8. Remove the sensor (exit 2) (A).



Previous



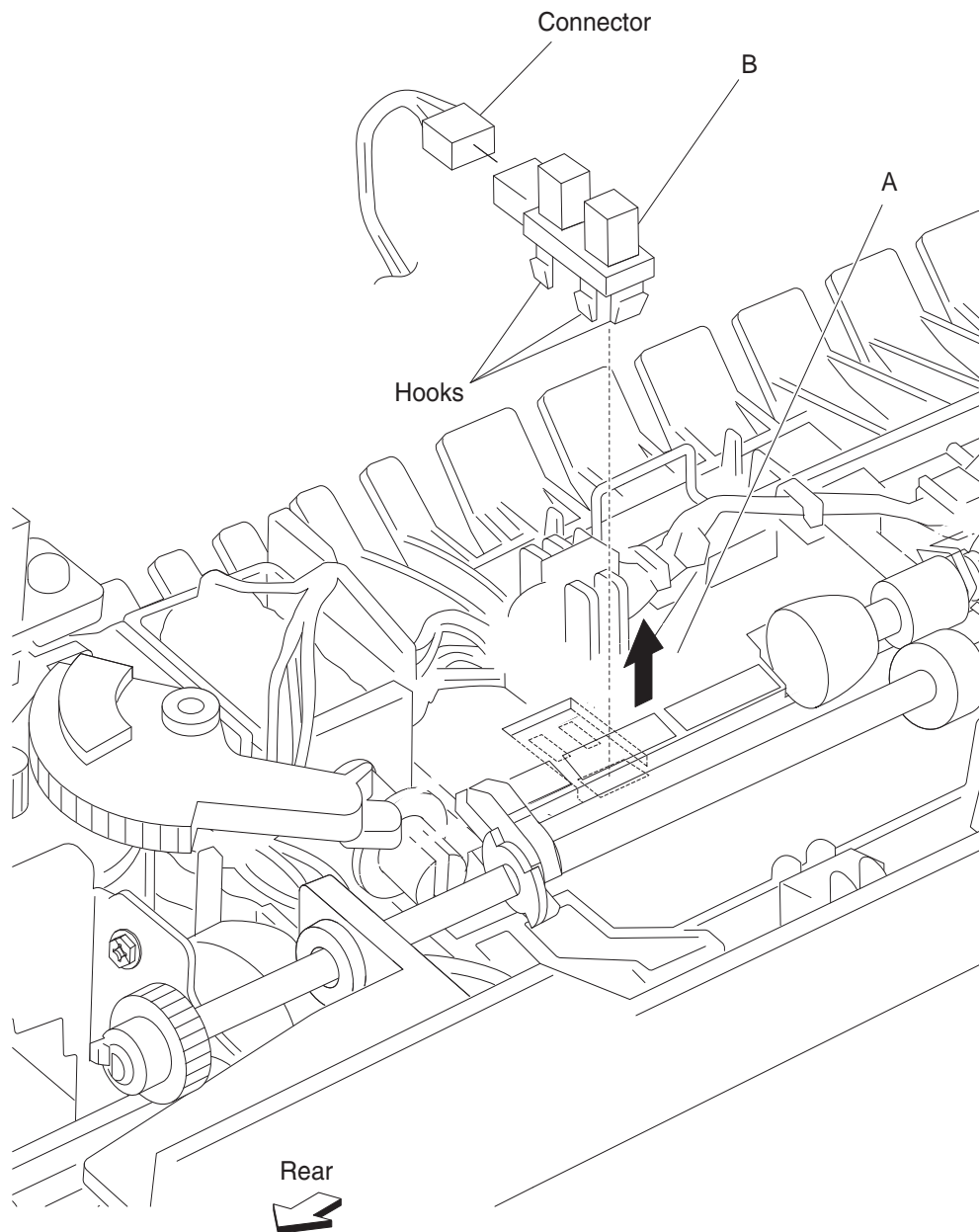
Next



Go Back

Exit 2 sensor (exit 2 media shift HP) removal

1. Remove the exit 2 unit assembly. See **“Exit 2 unit assembly removal”** on page 4-322.
2. Open the exit 2 unit assembly.
3. Remove the exit 2 left cover. See **“Exit 2 left cover removal”** on page 4-325.
4. Remove the exit 2 right cover. See **“Exit 2 right cover removal”** on page 4-327.
5. Remove the exit 2 media shift gear. See **“Exit 2 media shift gear removal”** on page 4-333.
6. Rotate the shift assembly (A) upward in the direction of the arrow.
7. Disconnect the connector from the sensor (exit 2 media shift HP) (B).
8. Release the hooks securing the sensor (exit 2 media shift HP) (B) to the exit 2 unit assembly.
9. Remove the sensor (exit 2 media shift HP) (B).



Previous



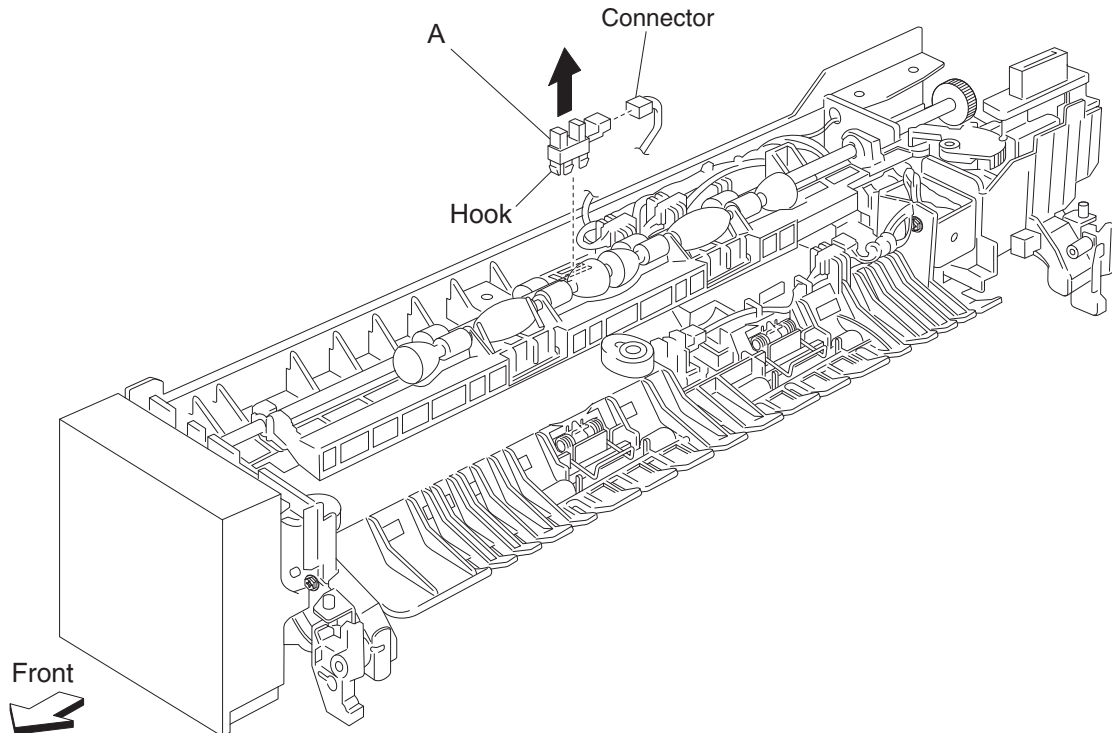
Next



Go Back

Exit 2 sensor (standard bin full exit 2) removal

1. Remove the exit 2 unit assembly. See **“Exit 2 unit assembly removal”** on page 4-322.
2. Open the exit 2 unit assembly.
3. Remove the exit 2 left cover. See **“Exit 2 left cover removal”** on page 4-325.
4. Remove the exit 2 right cover. See **“Exit 2 right cover removal”** on page 4-327.
5. Disconnect the sensor (standard bin full exit 2) (A).
6. Release the hooks to the sensor (standard bin full exit 2) (A) from the exit 2 unit assembly.
7. Remove the sensor (standard bin full exit 2) (A).



Previous



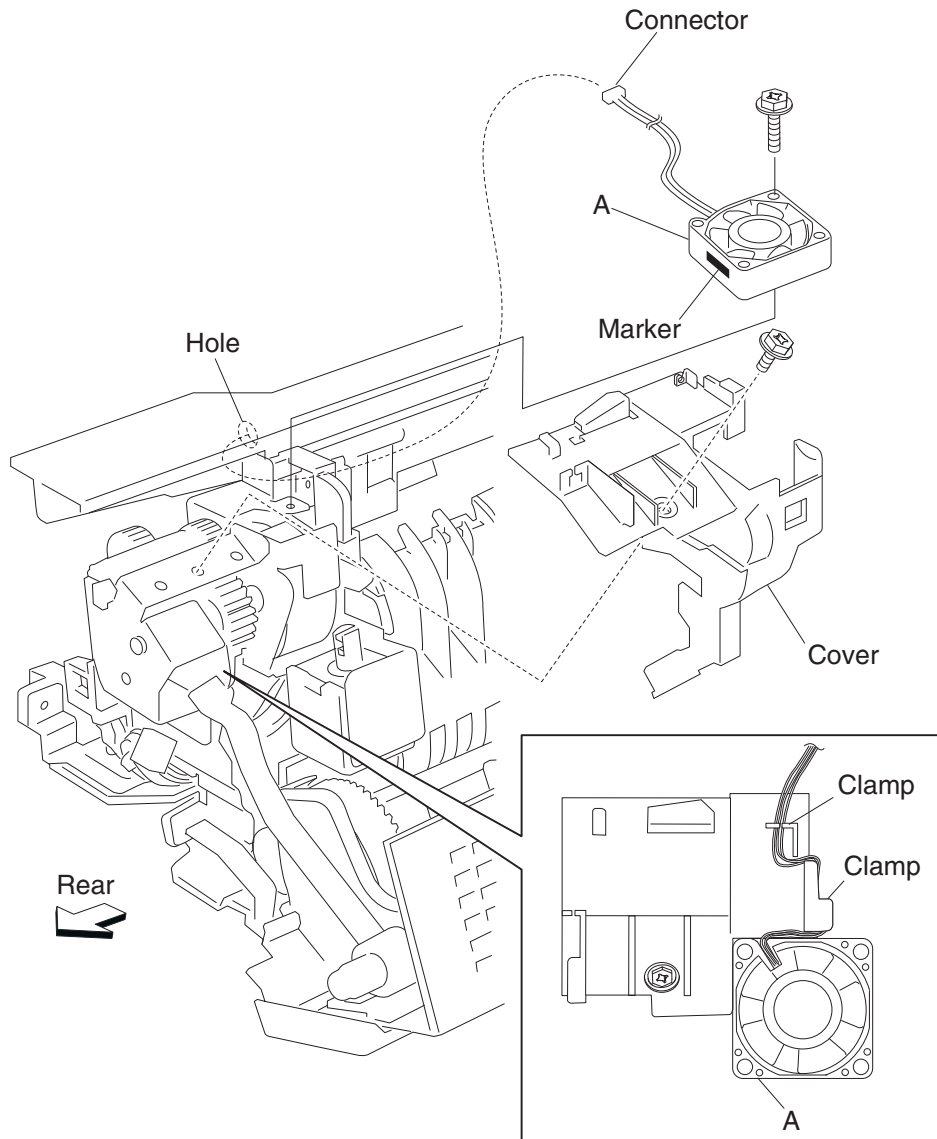
Next



Go Back

Exit 2 cooling fan removal

1. Remove the exit 2 unit assembly. See **“Exit 2 unit assembly removal”** on page 4-322.
2. Open the exit 2 unit assembly.
3. Remove the exit 2 left cover. See **“Exit 2 left cover removal”** on page 4-325.
4. Remove the exit 2 right cover. See **“Exit 2 right cover removal”** on page 4-327.
5. Disconnect the connector from the exit 2 cooling fan (A).
6. Remove the harness from the hole in the exit 2 unit assembly.
7. Remove the screw securing the exit 2 cooling fan (A) to the exit 2 unit assembly.
8. Remove the exit 2 cooling fan (A).



Previous



Next



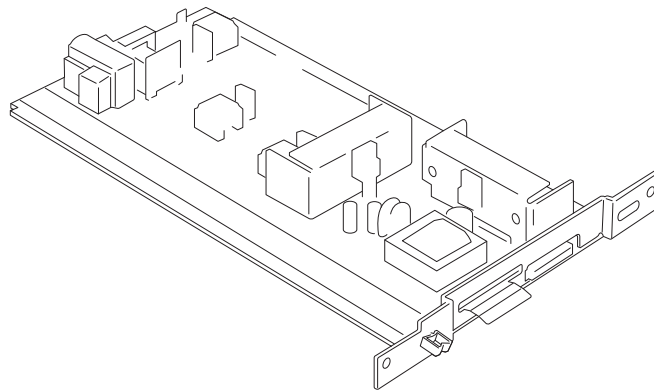
Go Back

5. Component locations

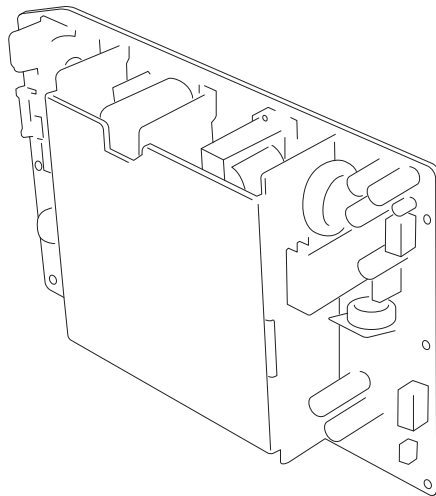
Locations

Printer boards

HVPS



LVPS



Previous

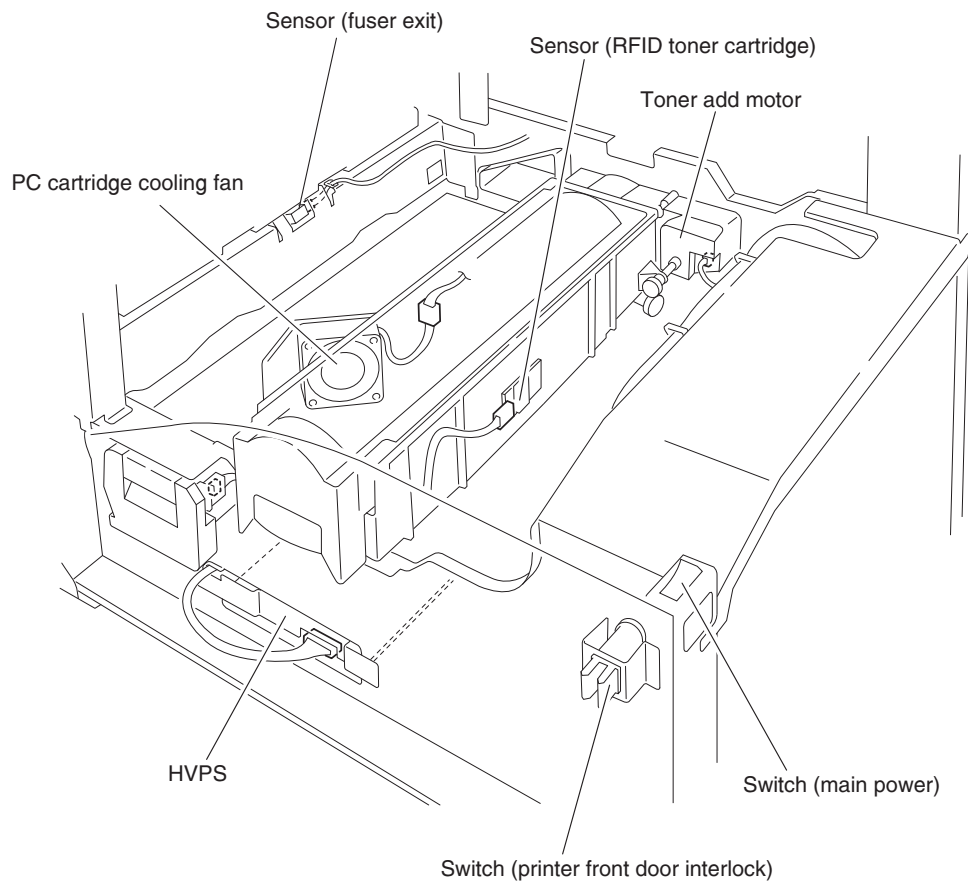


Next



Go Back

Printer motors and sensors



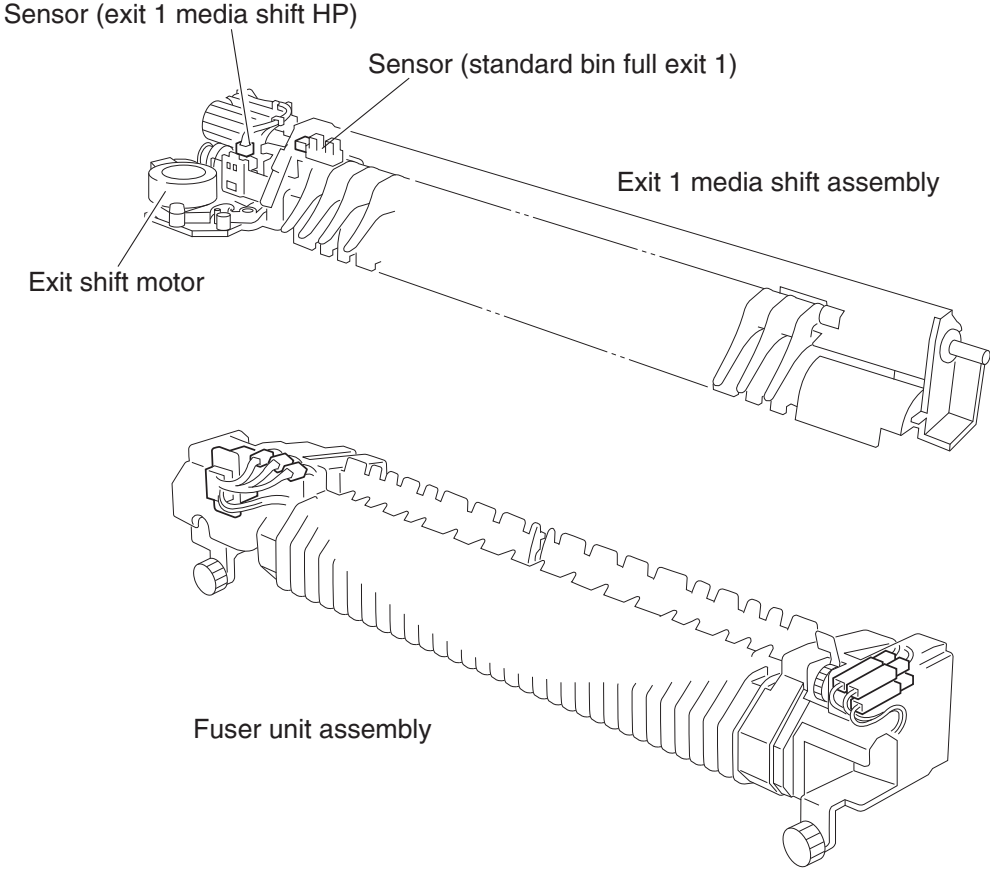
Previous



Next



Go Back



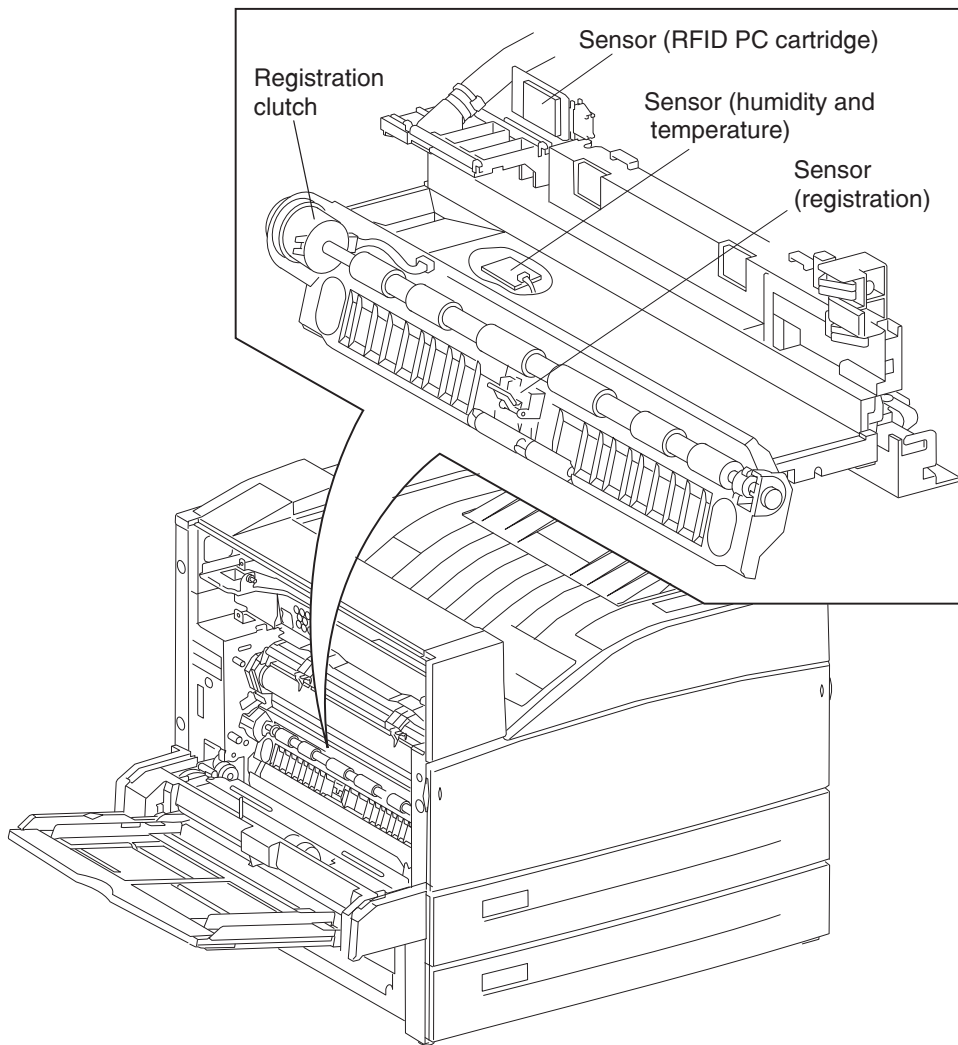
Previous



Next



Go Back



Previous



Next



Go Back

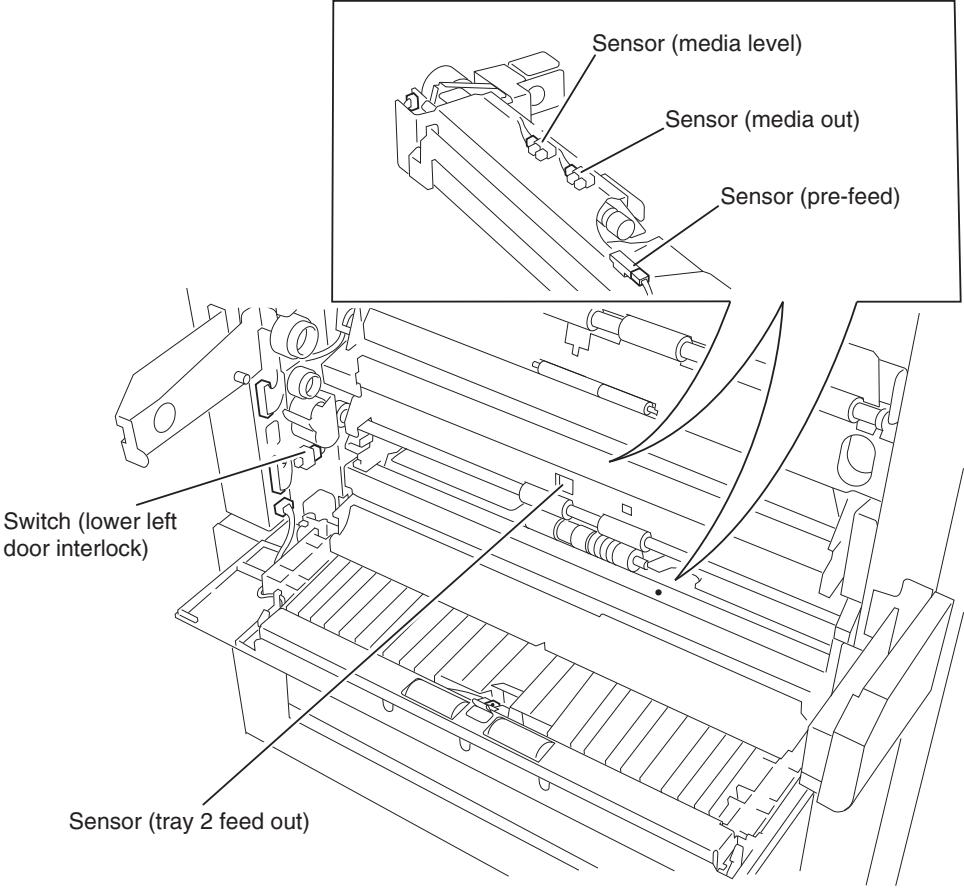
Previous

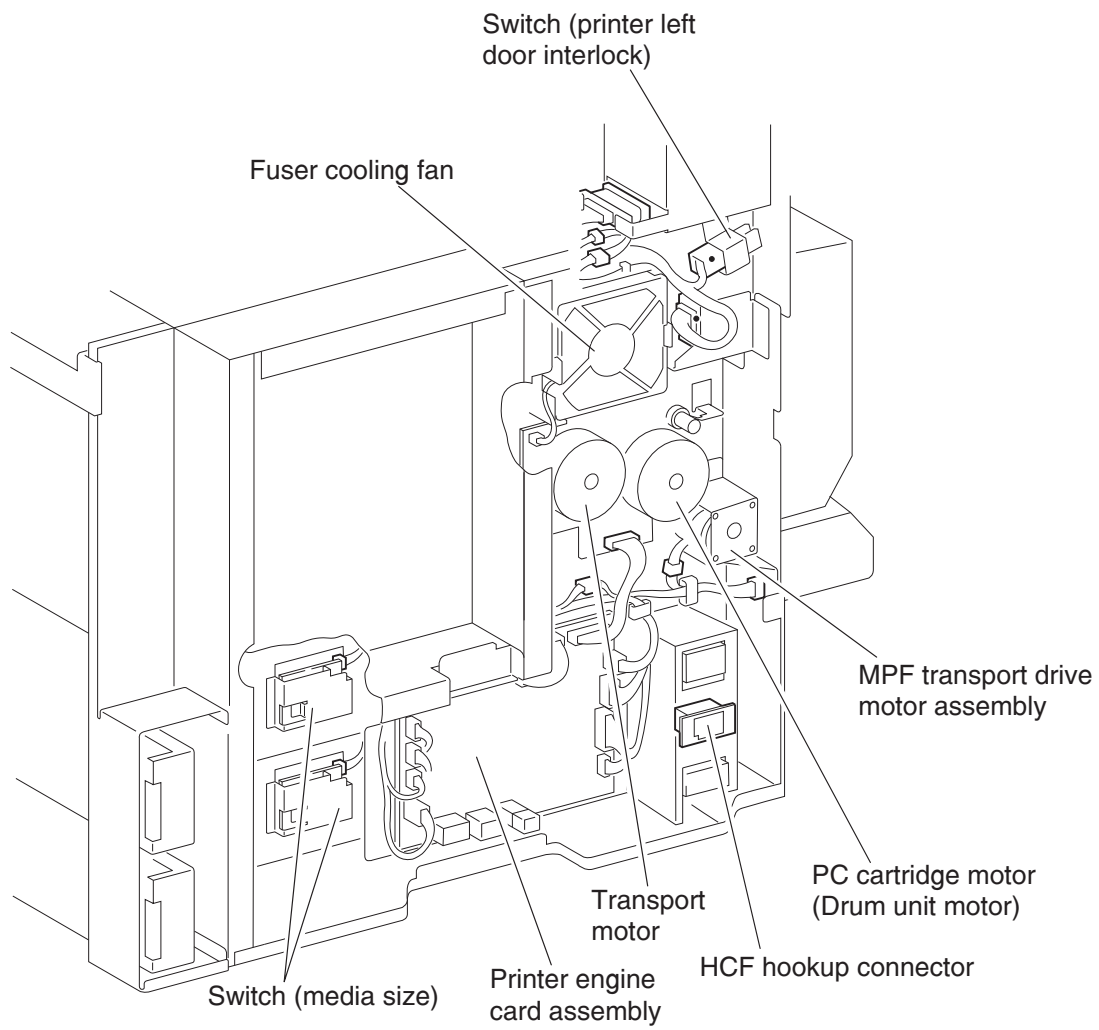


Next



Go Back





Previous

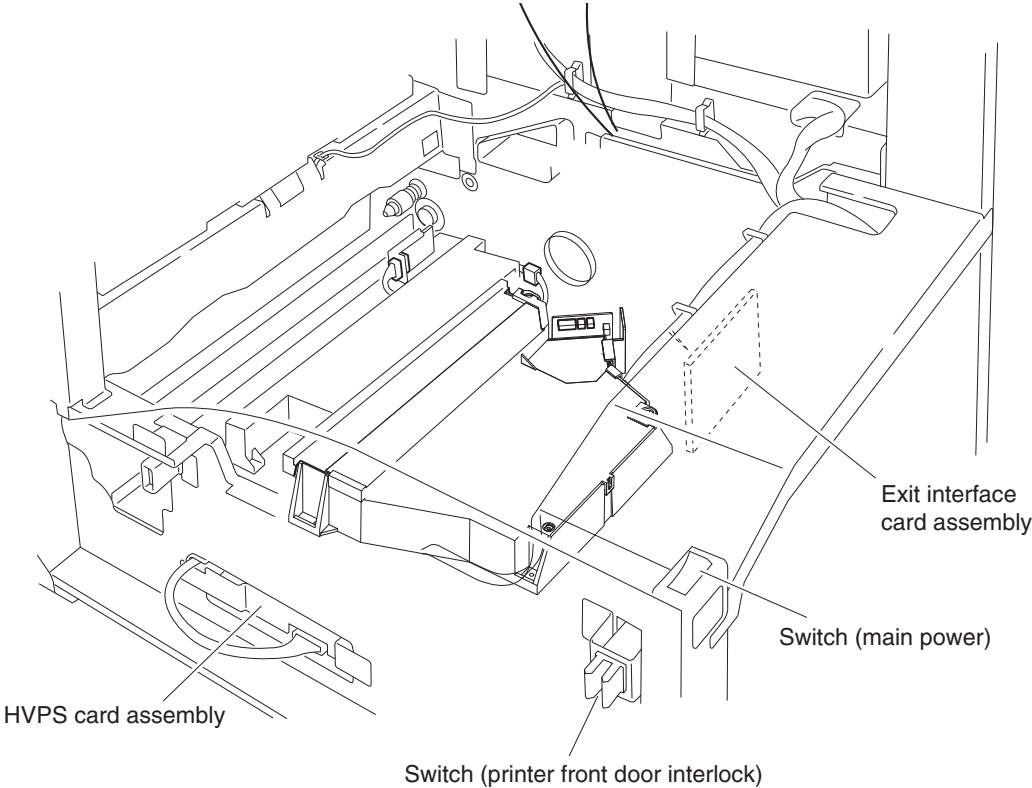


Next



Go Back

Printer switches



Previous

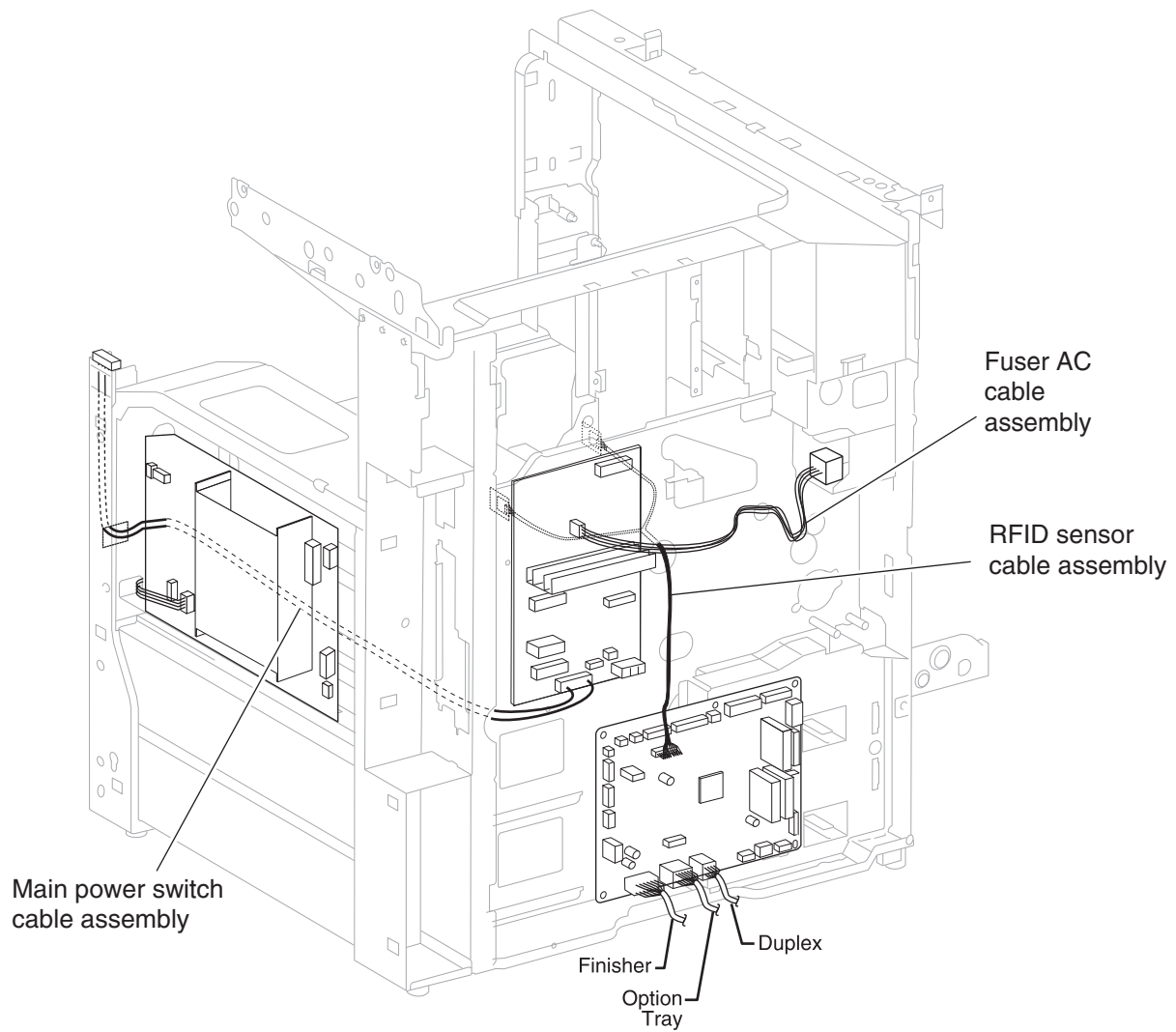


Next



Go Back

Cables



Previous



Next



Go Back

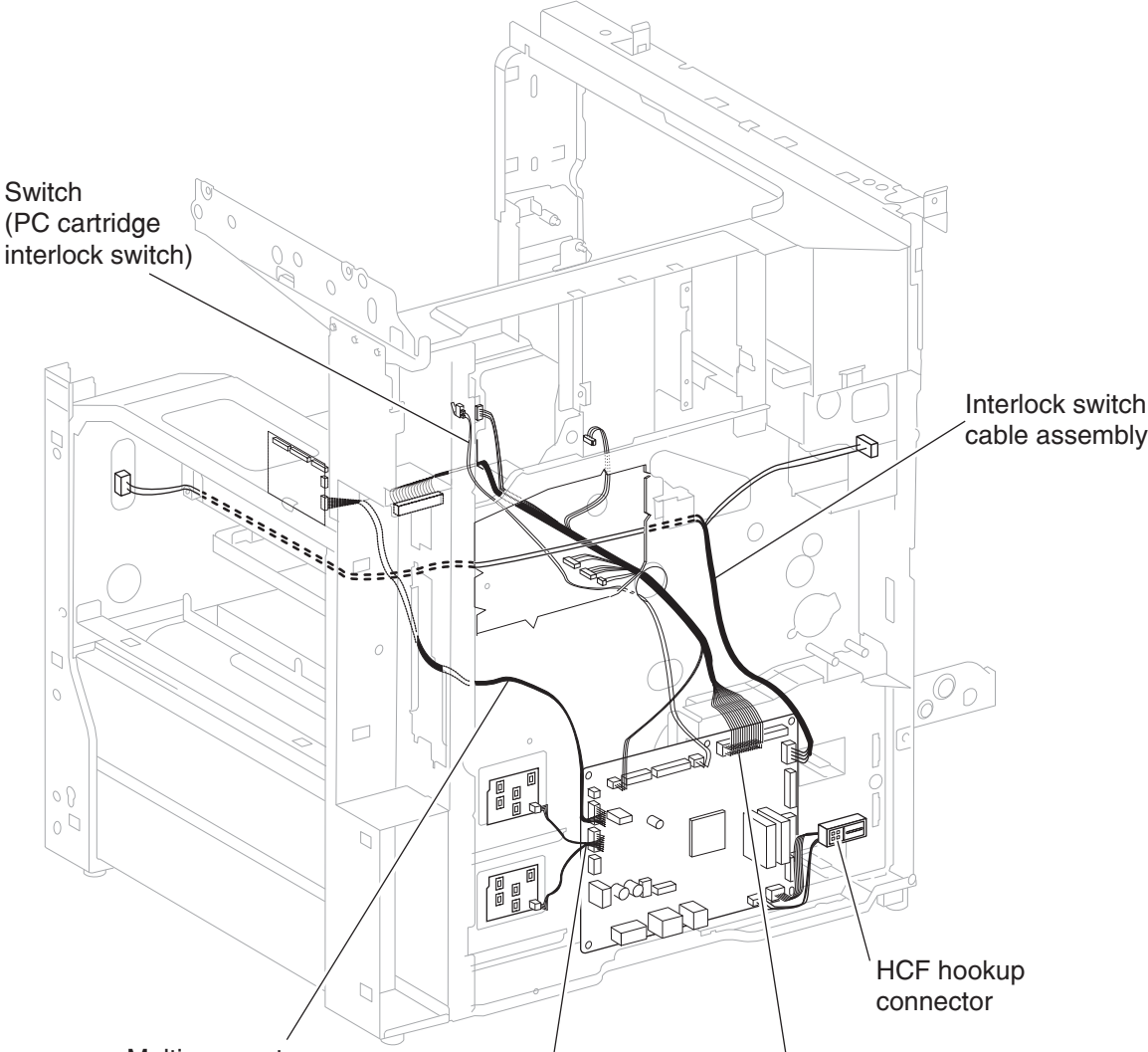
Previous



Next



Go Back



Multi connect cable assembly 1 connects the following:

- LVPS
- LVPS cooling fan
- Toner add motor
- Exit interface card assembly
- Fuser cable assembly (data)

Media size switch cable assembly

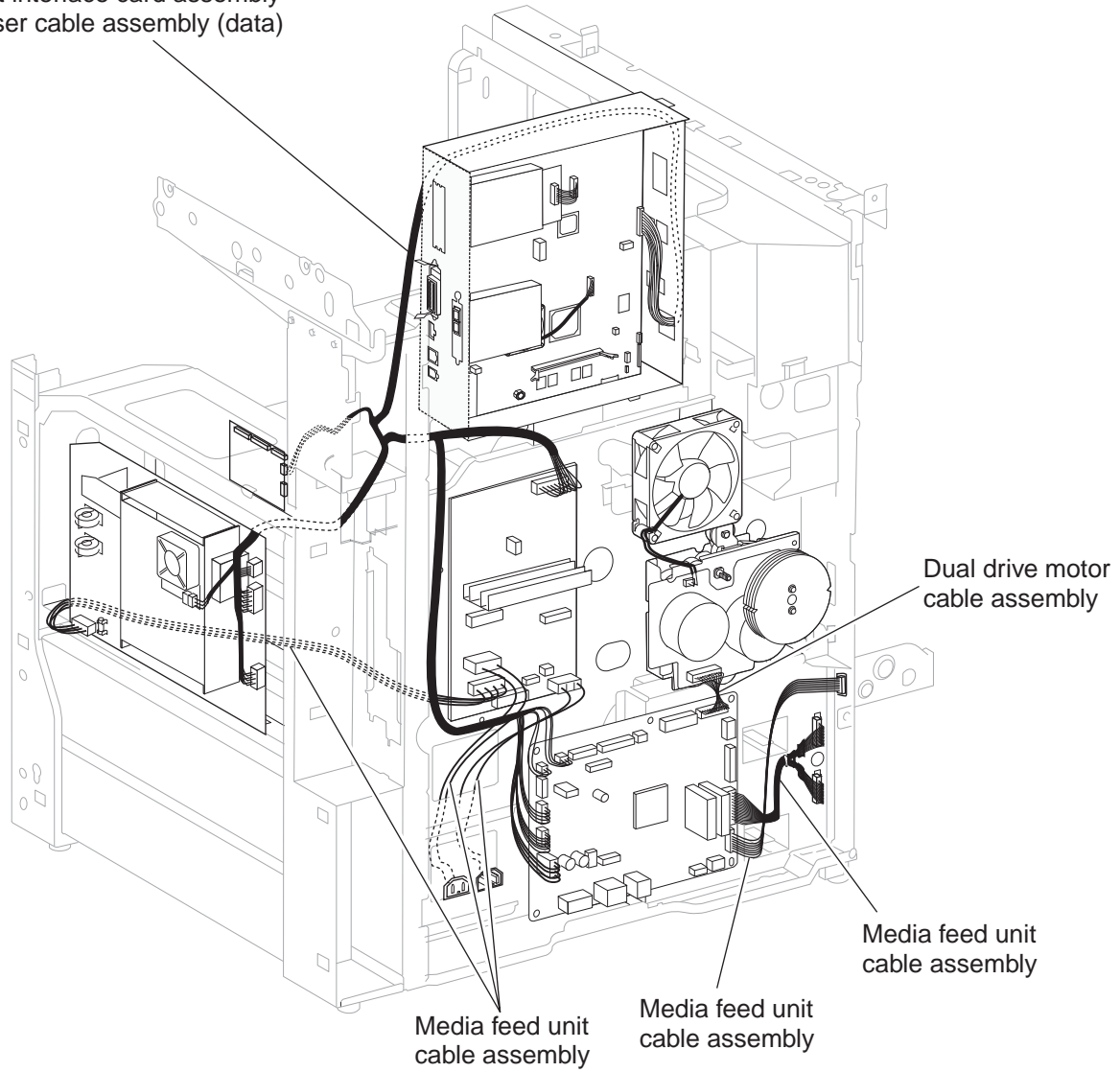
Multi connect cable assembly 1 connects the following:

- HVPS
- Registration clutch
- Sensor (registration)
- Sensor (hum/temp)
- PC cartridge sensor connector



Multi connect
cable assembly 3
connects the following:

- LVPS
- LVPS cooling fan
- Toner add motor
- Exit interface card assembly
- Fuser cable assembly (data)



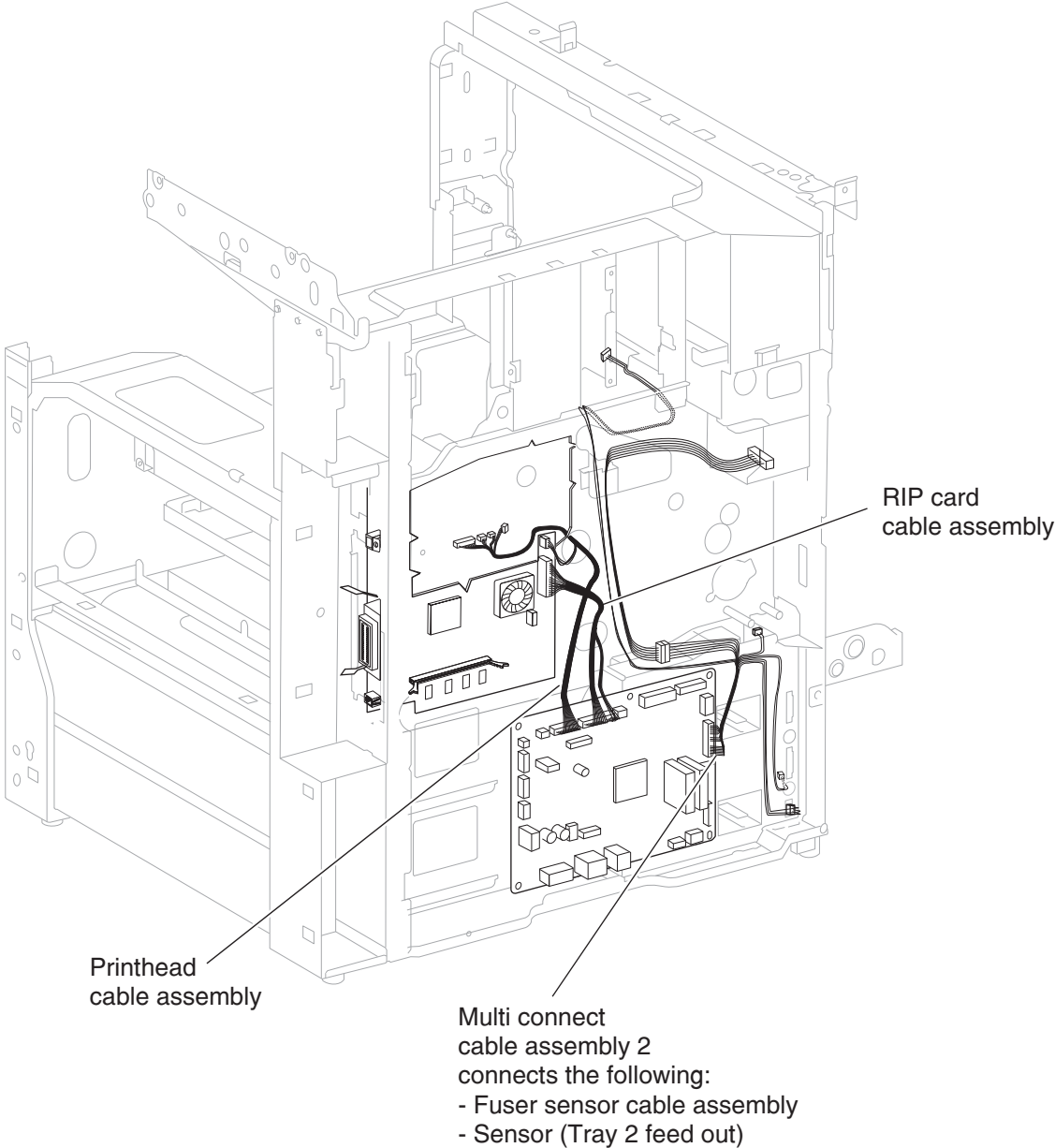
Previous



Next



Go Back



Previous



Next



Go Back

TTM components

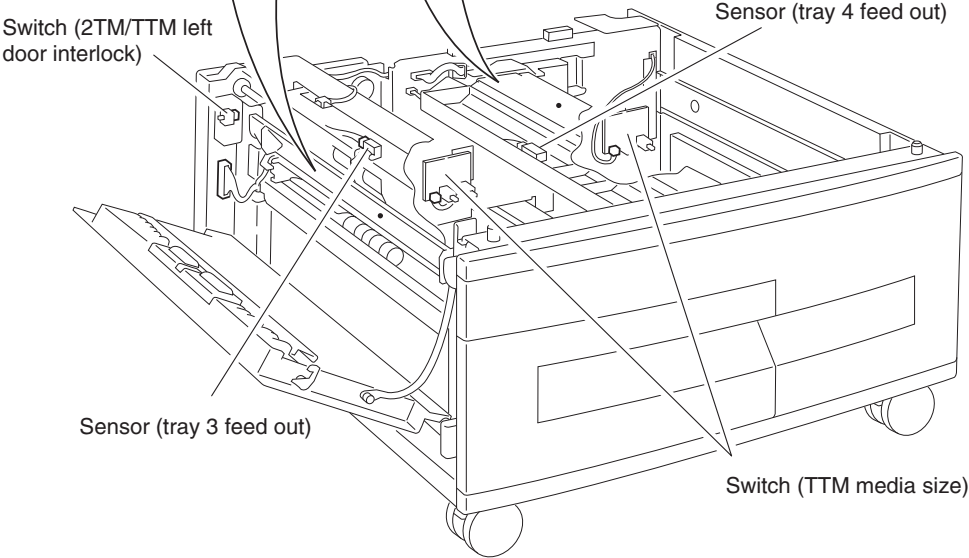
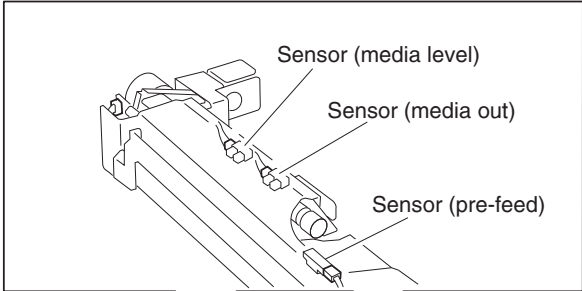
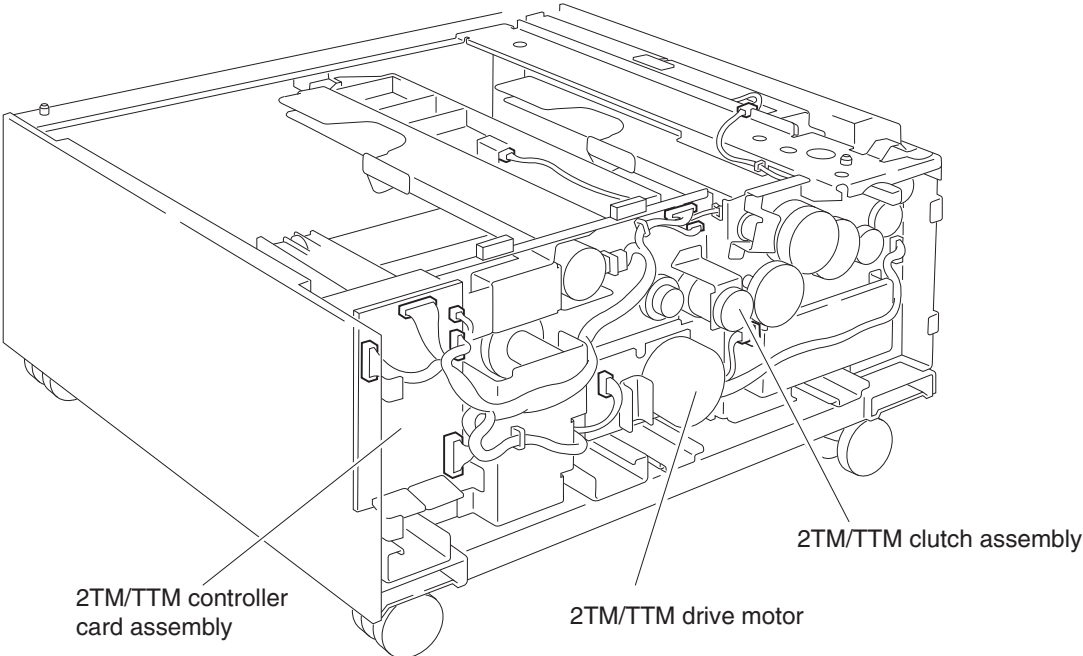
Previous



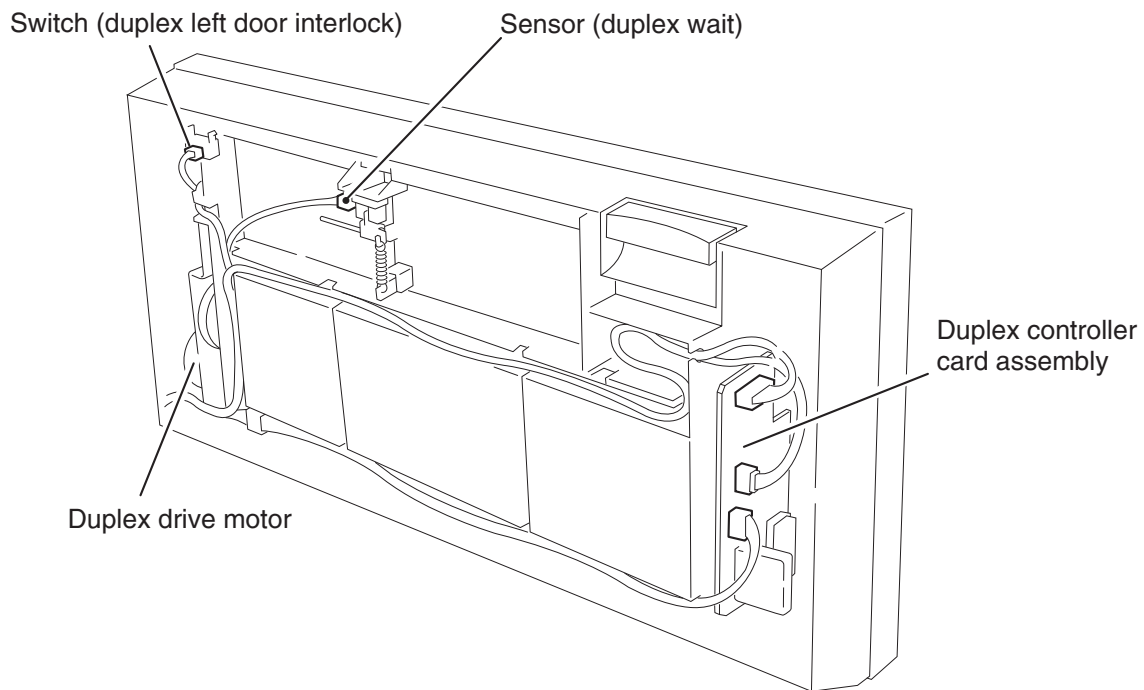
Next



Go Back



Duplex components



Previous

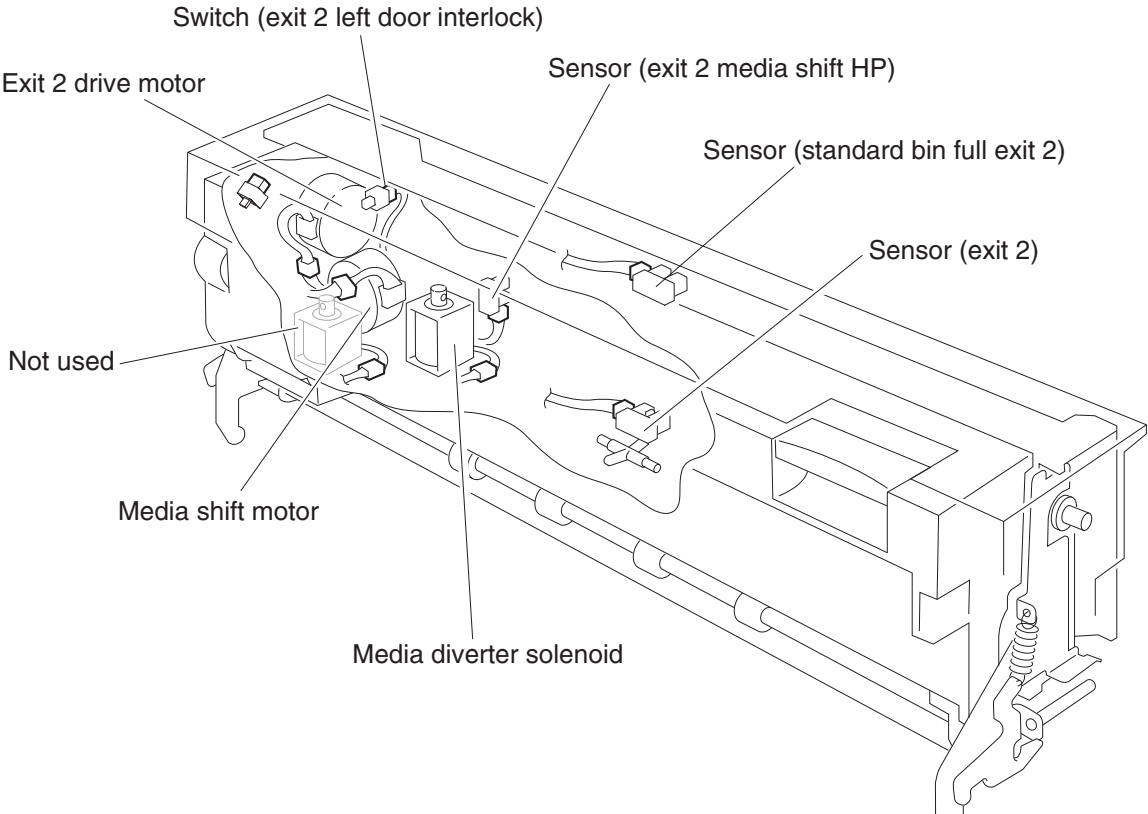


Next



Go Back

Exit 2 components



Previous



Next



Go Back

Previous



Next



Go Back

6. Preventive maintenance

This chapter describes procedures for printer preventive maintenance. Follow these recommendations to help prevent problems and maintain optimum performance.



Safety inspection guide

The purpose of this inspection guide is to aid you in identifying unsafe conditions.

If any unsafe conditions exist, find out how serious the hazard could be and if you can continue before you correct the hazard.

Check the following items:

- Damaged, missing, or altered parts, especially in the area of the on/off switch and the power supply
- Damaged, missing, or altered covers, especially in the area of the top cover and the power supply cover
- Possible safety exposure from any non-Lexmark attachments

LEXMARK X860de, X862de, X864de	EVERY SERVICE CALL	EVERY 300K	NOTE
MEDIA TRAY—PRINTER 2TM/TTM			
Media Side Guides	Inspect	Inspect	Check for correct positioning
Media End Guide	Inspect	Inspect	Check for correct positioning
Separation Pad	Inspect	Clean	Damp cloth
Tray Lift Gear Group		Inspect	
MEDIA FEED UNIT—PRINTER TTM			
Feed Roll	Inspect	Replace	Verify page count before replacing
Pick Roll	Inspect	Replace	Verify page count before replacing
Separation Roll	Inspect	Replace	Verify page count before replacing
MPF feed roll	Inspect	Clean	Water or alcohol
Transport Roll Assembly		Clean	Water or alcohol
Sensor (registration)		Clean	Brush or blower brush
Sensor (tray 2 feed-out)		Clean	Brush or blower brush
MEDIA FEED UNIT HCF (if equipped)			
Feed Roll	Inspect	Replace	Verify page count before replacing
Pick Roll	Inspect	Replace	Verify page count before replacing
Separation Roll	Inspect	Replace	Verify page count before replacing
HCF Transport Roll Assembly		Clean	Water or alcohol
Front Edge Guide	Inspect		Check for correct positioning
Rear Edge Guide	Inspect		Check for correct positioning
Long Edge Guide	Inspect		Check for correct positioning
Separation Pad	Inspect	Clean	Damp cloth
TRANSFER ROLL			
Transfer Roll	Inspect	Replace	
FUSER UNIT			
Fuser Unit	Inspect	Replace	
Sensor (fuser exit)		Clean	Blower brush
DUPLEX			
Duplex Transport Roll (2)		Clean	Water or alcohol

Previous



Next



Go Back

LEXMARK X860de, X862de, X864de	EVERY SERVICE CALL	EVERY 300K	NOTE:
Duplex Transport Roll Middle		Clean	Water or alcohol
EXIT 2			
Exit 2 Transport Roll		Clean	Water or alcohol
Exit 2 Media Exit Roll		Clean	Water or alcohol
FINISHER (if equipped)			
Bridge Unit Transport Belts		Clean	Water or alcohol
Main Paddles (3)		Inspect	
Sub Paddles (2)		Inspect	
Clamp Paddles (3)		Inspect	
Punch Waste Box		Clean	
Stapler Cartridge	Inspect	Inspect	Check for correct operation
FLATBED SCANNER			
Mirrors (3)	Inspect	Clean	Glass cleaner
Lens	Inspect	Clean	Glass cleaner
Small Platen Glass	Clean	Clean	Glass cleaner
Large Platen Glass	Clean	Clean	Glass cleaner
LEXMARK X860de, X862de, X864de	EVERY SERVICE CALL	EVERY 150K	NOTE:
ADF			
Feed Pick Roll Assembly	Inspect	Replace	
Separation Roll Guide Assembly	Inspect	Replace	
ADF Registration Roll Assembly	Inspect	Clean	Water or alcohol
ADF Feed-Out Roll Assembly	Inspect	Clean	Water or alcohol
ADF Exit Roll Assembly	Inspect	Clean	Water or alcohol
ADF Transport Roll Assembly	Inspect	Clean	Water or alcohol

Previous



Next



Go Back

Lubrication specifications

Lubricate only when parts are replaced or as needed, not on a scheduled basis. Use of lubricants other than those specified can cause premature failure. Some unauthorized lubricants may chemically attack polycarbonate parts. Use IBM no. 10 oil, P/N 1280443 (Approved equivalents: Mobil DTE27, Shell Tellus 100, Fuchs Renolin MR30), IBM no. 23 grease (Approved equivalent Shell Darina 1), and grease, P/N 99A0394 to lubricate appropriate areas.

Scheduled maintenance

The LCD displays 80 scheduled maintenance at each 300K page count interval. It is necessary to replace the fuser assembly, transfer roller, and feed, pick and separation rollers at this interval to maintain the print quality and reliability of the printer. The parts are available as a maintenance kit with the following part numbers:

40X0394—Maintenance Kit, 110 V
 40X0398—Maintenance Kit, 220 V
 40X2377—Maintenance Kit, 100 V

The ADF requires scheduled maintenance at each 150K page count interval. It is necessary to replace the feed/pick roll assembly and the separation guide assembly at this interval to maintain ADF media feed reliability. The parts are available as a maintenance kit with the following part number:

40X2734—Maintenance Kit, ADF

After replacing the kit, the maintenance count must be reset to zero to clear the "80 scheduled maintenance" message.

To reset the maintenance count

1. Turn off the printer
2. Press and hold the **2** and **6** buttons simultaneously.
3. Turn on the printer.
4. Release the buttons after 10 seconds. The Configuration Menu appears on the LCD.
5. Touch **Reset Maintenance Counter** from the Configuration Menu.
6. **Reset Maintenance Counter** appears in the header and **Yes** and **No** appears below the header.
7. To cancel the reset operation, press **Back** or **No**. All other button presses are ignored.
8. To initiate the reset operation, select **Yes**.

The maintenance count resets to zero and the LCD returns to the Configuration Menu.

When performing the 300K scheduled maintenance procedure, the following areas should be cleaned of media dust and toner contamination:

- Media trays
- PC cartridge area
- Transfer roll area
- Duplex area
- Exit 2 area
- Standard bins
- Bridge unit area (if equipped)
- Finisher media bins (if equipped)

Previous



Next



Go Back

Previous



Next



Go Back

7. Parts catalog

Previous



Next



Go Back

How to use this parts catalog

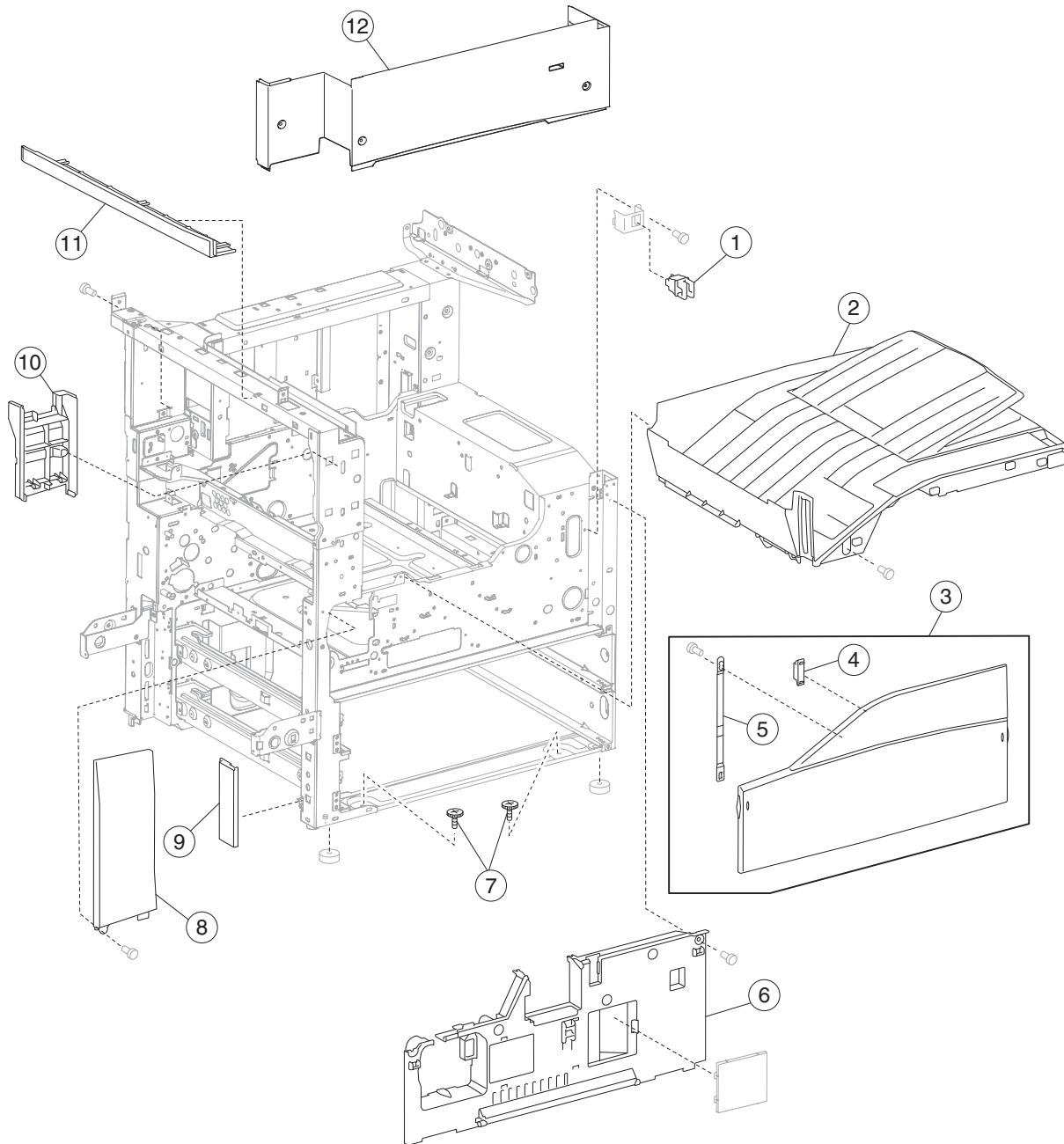
The following legend is used in the parts catalog:

Asm Index	Part number	Units/mach	Units/kit or pkg	Description
-----------	-------------	------------	------------------	-------------

- **Assembly-index:** Identifies the assembly and the item in the diagram. For example 3-1 indicates Assembly 3 and the item number 1 in the table.
- **Part number:** Identifies the unique number that identifies this FRU.
- **Units/mach:** Refers to the number of units actually used in the base machine or product.
- **Units/kit or pkg:** Refers to the number of units packaged together and identified by the part number.
- **NS:** (Not shown) in the assembly-Index column indicates that the part is procurable but is not pictured in the illustration.
- **PP:** (Parts Packet) in the parts description column indicates the part is contained in a parts packet.

Model name	Configuration	Machine type	Speed
Lexmark X860de	Network	7500-432	35 PPM
Lexmark X862de	Network	7500-632	45 PPM
Lexmark X864de	Network	7500-832	55 PPM

Assembly 1: Covers (1 of 2)



Previous



Next



Go Back

Assembly 1: Covers (1 of 2)

Asm Index	Part number	Units/mach	Units/kit or pkg	Description
1-1	40X0553	1	1	Switch (printer front door interlock)
2	40X2366	1	1	Top cover assembly
3	40X2385	1	1	Printer front door assembly
4	40X0560	1	1	Front door magnetic catch
5	40X0561	1	1	Front door support strap
6	40X0562	1	1	Front inner cover
7	40X0960	1	2	2TM/TTM retaining screws
8	40X2294	1	1	Front left cover
9	40X0550	1	1	Left lower cover
10	40X2296	1	1	Front interior cover
11	40X2297	1	1	Left upper cover
12	40X2295	1	1	Rear interior cover

Previous

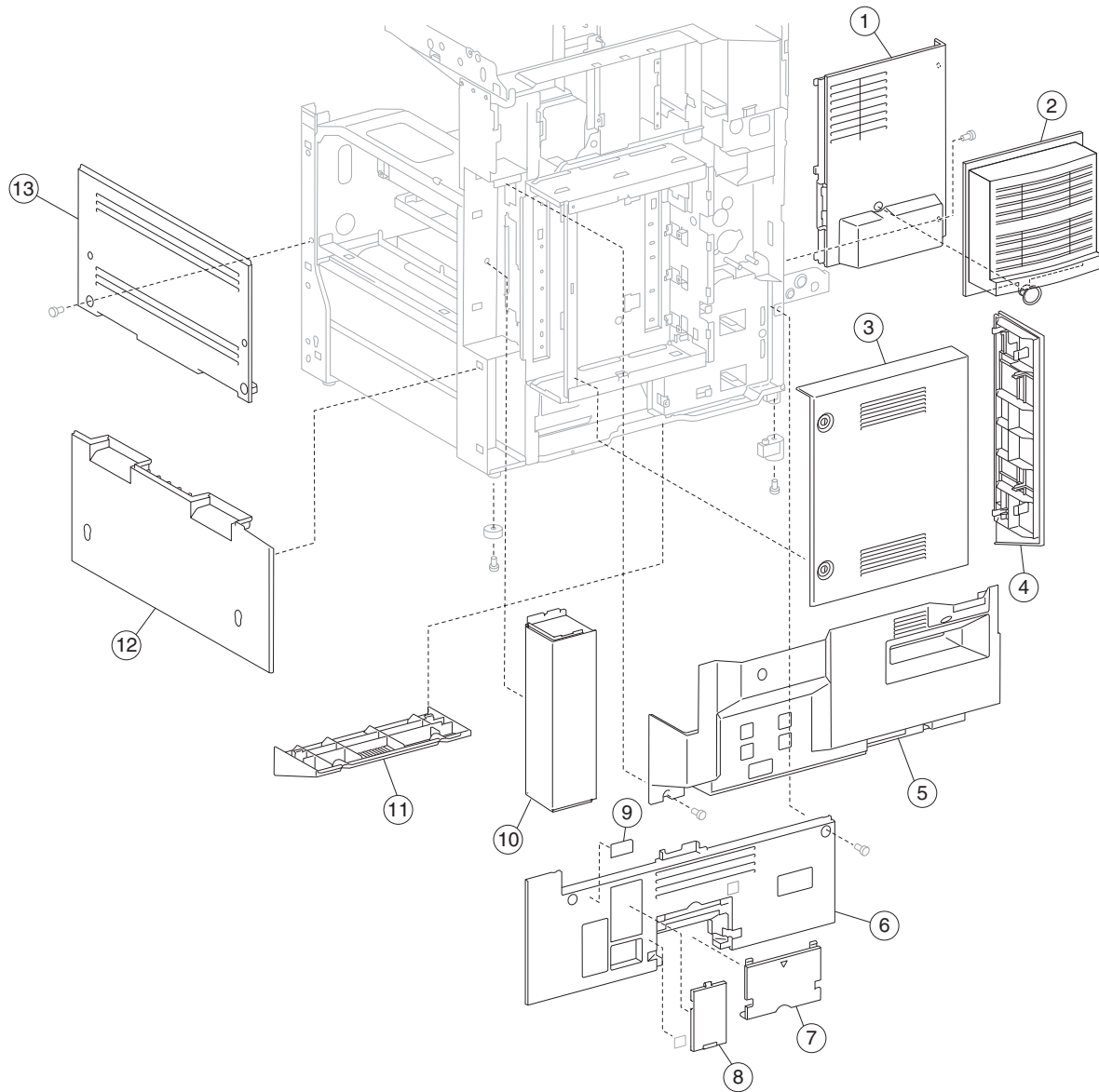


Next



Go Back

Assembly 2: Covers



Previous



Next



Go Back

Assembly 2: Covers

Asm Index	Part number	Units/mach	Units/kit or pkg	Description
1-1	40X2300	1	1	Rear motor cover
2	40X2382	1	1	TVOC filter assembly
3	40X2304	1	1	Rear RIP card cover
4	40X2306	1	1	Controller box side cover
5	40X2301	1	1	Rear Upper cover
6	40X2386	1	1	Rear lower cover (110V)
6	40X2387	1	1	Rear lower cover (220V)
7	40X0568	1	1	Option hookup cover
8	40X2302	1	1	Rear lower cap cover
9	40X2303	1	1	GFI label
10	40X2299	1	1	Rear corner cover
11	40X2305	1	1	Controller box lower cover
12	40X0564	1	1	Right lower cover
13	40X0563	1	1	Right upper cover

Previous

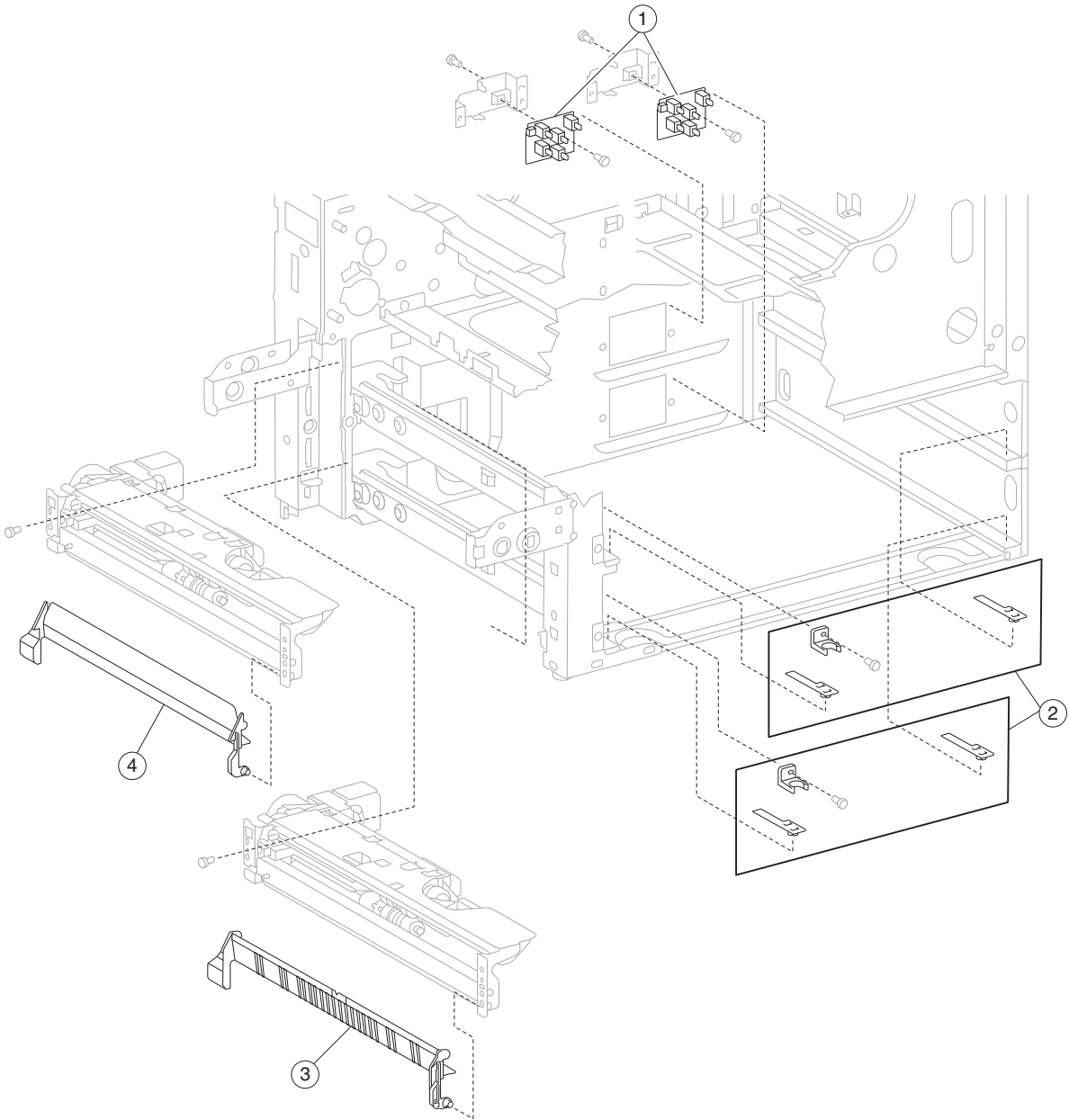


Next



Go Back

Assembly 3: Media feed unit



Previous



Next



Go Back

Assembly 3: Media feed unit

Asm Index	Part number	Units/mach	Units/kit or pkg	Description
3-1	40X0570	2	1	Switch (media size)
2	40X0569	2	3	Media tray catch kit includes: <ul style="list-style-type: none">• Media tray catch• Media tray slide (2 each)
3	40X0572	1	1	Vertical turn guide
4	40X0571	1	1	Vertical turn mylar guide

Previous

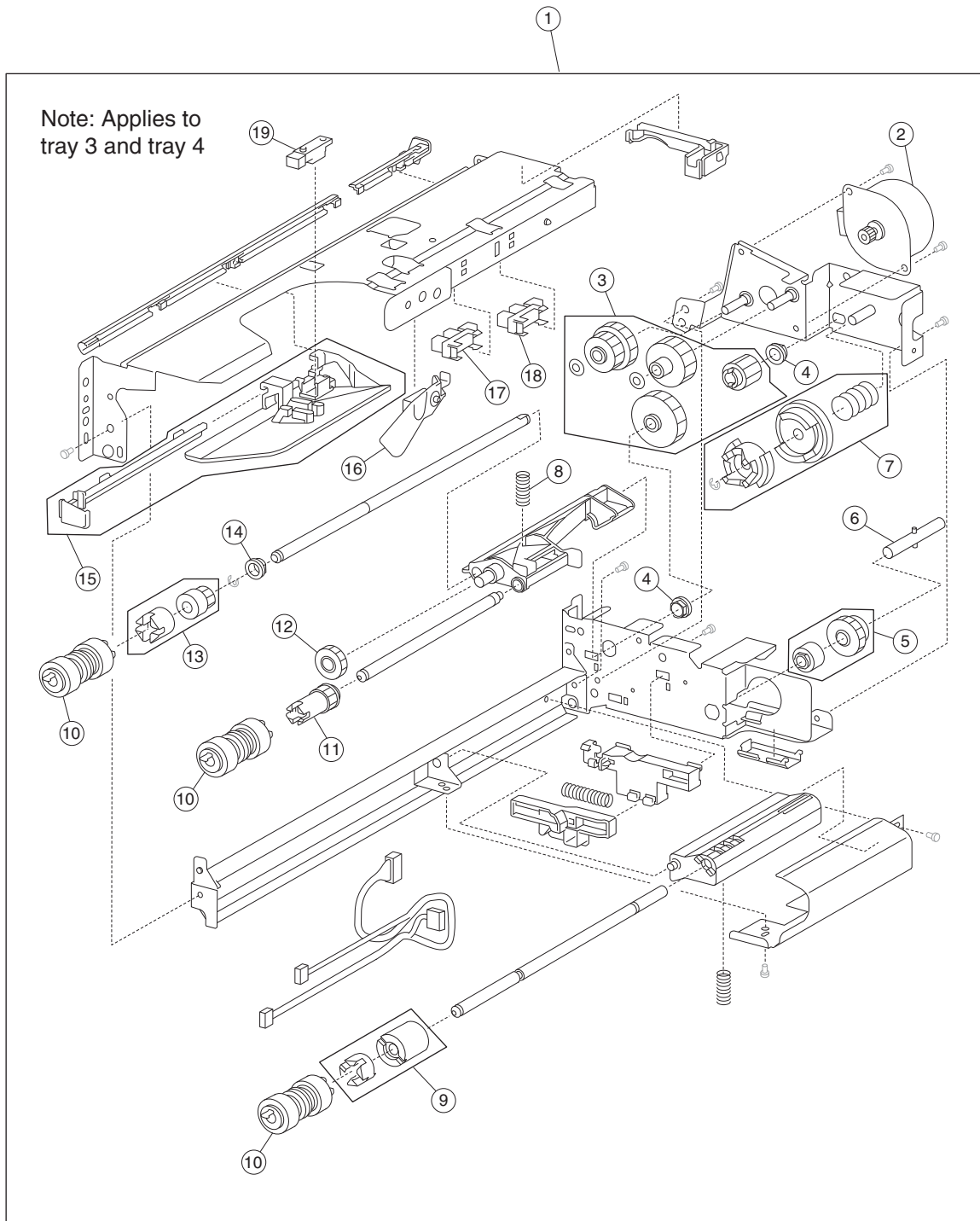


Next



Go Back

Assembly 4: Media feed unit exploded (tray 1 and tray 2)



Previous



Next



Go Back

Assembly 4: Media feed unit exploded (tray 1 and tray 2)

Asm Index	Part number	Units/mach	Units/kit or pkg	Description
4-1	40X0581	2	1	Media feed unit assembly (this comes assembled)
2	40X0582	2	1	Media feed lift motor
3	40X0585	2	6	Media feed drive gear kit includes: <ul style="list-style-type: none"> • Media feed unit drive gear 13T • Media feed unit drive gear 28/21T • Media feed unit drive gear 29T • Media feed unit drive gear 27T • 2 mm washer (2 each)
4	40X0880	2	1	Bushing 6 mm
5	40X0967	2	2	Media tray lift one-way clutch/gear kit includes: <ul style="list-style-type: none"> • Media tray lift one-way clutch • Media tray lift one-way gear
6	40X0968	2	1	Media tray lift one-way shaft
7	40X0583	2	3	Tray lift coupling kit includes: <ul style="list-style-type: none"> • Tray lift coupling • Tray lift coupling gear 31T • Spring
8	40X0590	2	1	Pick roll assembly spring
9	40X0593	2	2	Separation roll friction clutch kit includes: <ul style="list-style-type: none"> • Separation roll one-way friction clutch • Separation roll spacer
10	40X0594	2	6	Feed unit roll kit includes: <ul style="list-style-type: none"> • Feed roll (2 each) • Pick roll (2 each) • Separation roll (2 each)
11	40X0970	2	1	Pick roll drive gear
12	40X0969	2	1	Pick roll idler gear
13	40X0591	2	2	Feed roll one-way clutch kit includes: <ul style="list-style-type: none"> • Feed roll one-way clutch • Feed roll one-way gear 22T
14	40X0952	2	1	Bushing 6 mm
15	40X0586	2	2	Media feed unit front guide kit includes: <ul style="list-style-type: none"> • Media feed unit front guide • Media feed unit front guide rail
16	40X0587	2	1	Media out actuator
17	40X0588	2	1	Sensor (media out)
18	40X0588	2	1	Sensor (media level)
19	40X0589	2	1	Sensor (pre-feed)

Note: Assembly index items 17 and 18 are identical sensors with different functions; therefore, they are the same part number with different descriptions.

Previous

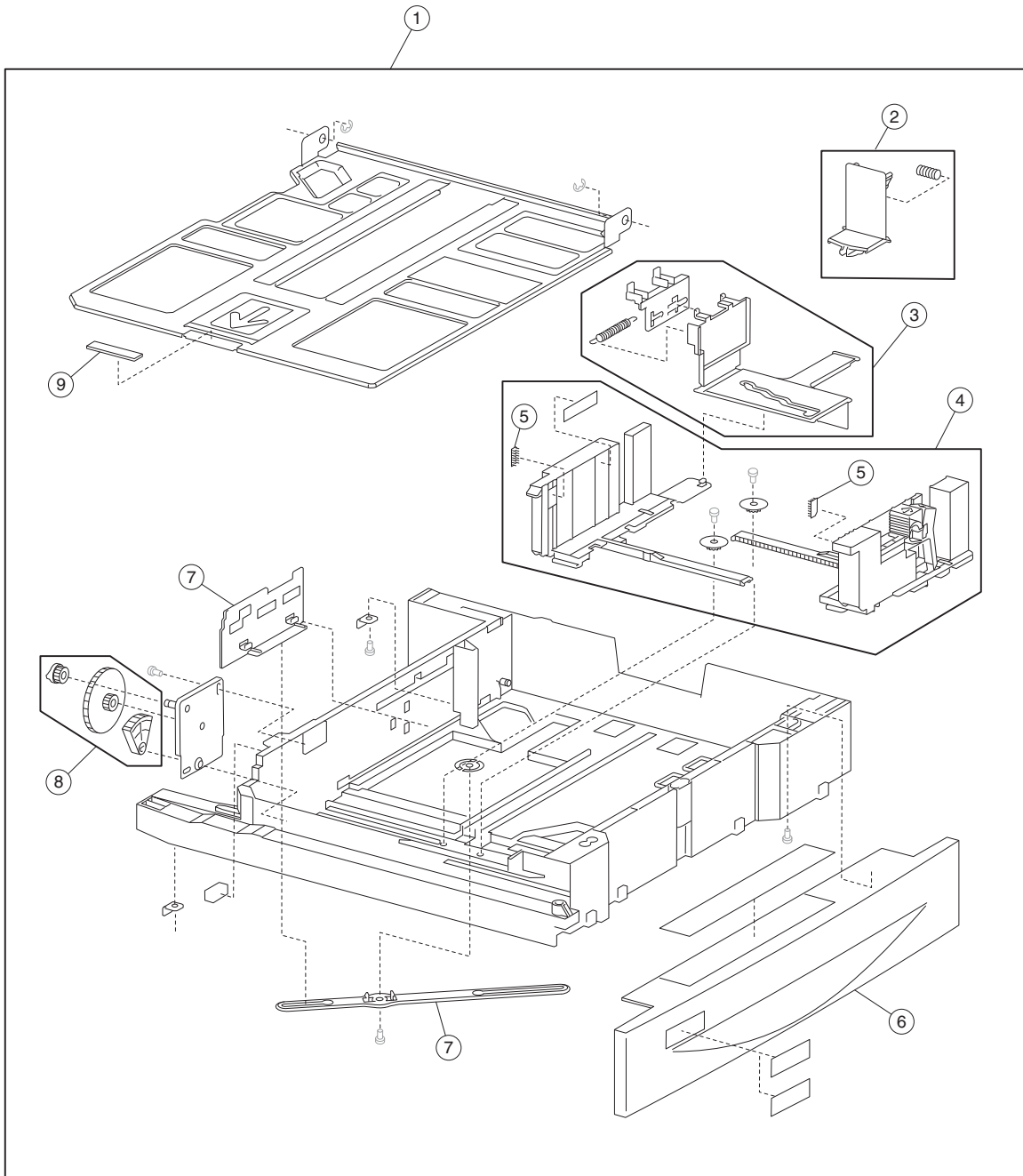


Next



Go Back

Assembly 5: Media tray



Previous



Next



Go Back

Assembly 5: Media tray

Asm Index	Part number	Units/mach	Units/kit or pkg	Description
5-1	40X0573	2	3	Media tray assembly includes: (this comes assembled) <ul style="list-style-type: none"> • Media tray assembly • Labels (2 each)
2	40X0578	2	2	Media tray end guide kit includes: <ul style="list-style-type: none"> • Media tray end guide • Spring
3	40X0577	2	3	Media tray side guide actuator kit includes: <ul style="list-style-type: none"> • Media tray side guide actuator • Media tray side guide slide • Spring
4	40X0576	2	5	Media tray side guide kit includes: <ul style="list-style-type: none"> • Media max label • Front media tray guide assembly • Rear media tray guide • Pinion gear (2 each)
5	40X0966	4	1	Media tray separation brush
6	40X0574	2	1	Media tray front cover includes: <ul style="list-style-type: none"> • Media tray front cover • Labels (2 each)
7	40X0579	2	2	Media tray end guide actuator kit includes: <ul style="list-style-type: none"> • Media end guide actuator • Actuator link <p>Note: The graphic on the previous page, shows two #7 callouts. These callouts are the two items that make up the media tray end guide actuator kit.</p>
8	40X0580	2	3	Media tray lift gear kit includes: <ul style="list-style-type: none"> • Tray lift coupling gear 13T • Tray lift gear 13/60T • Tray lift sector gear 12T
9	40X0965	2	1	Media tray separation pad

Previous

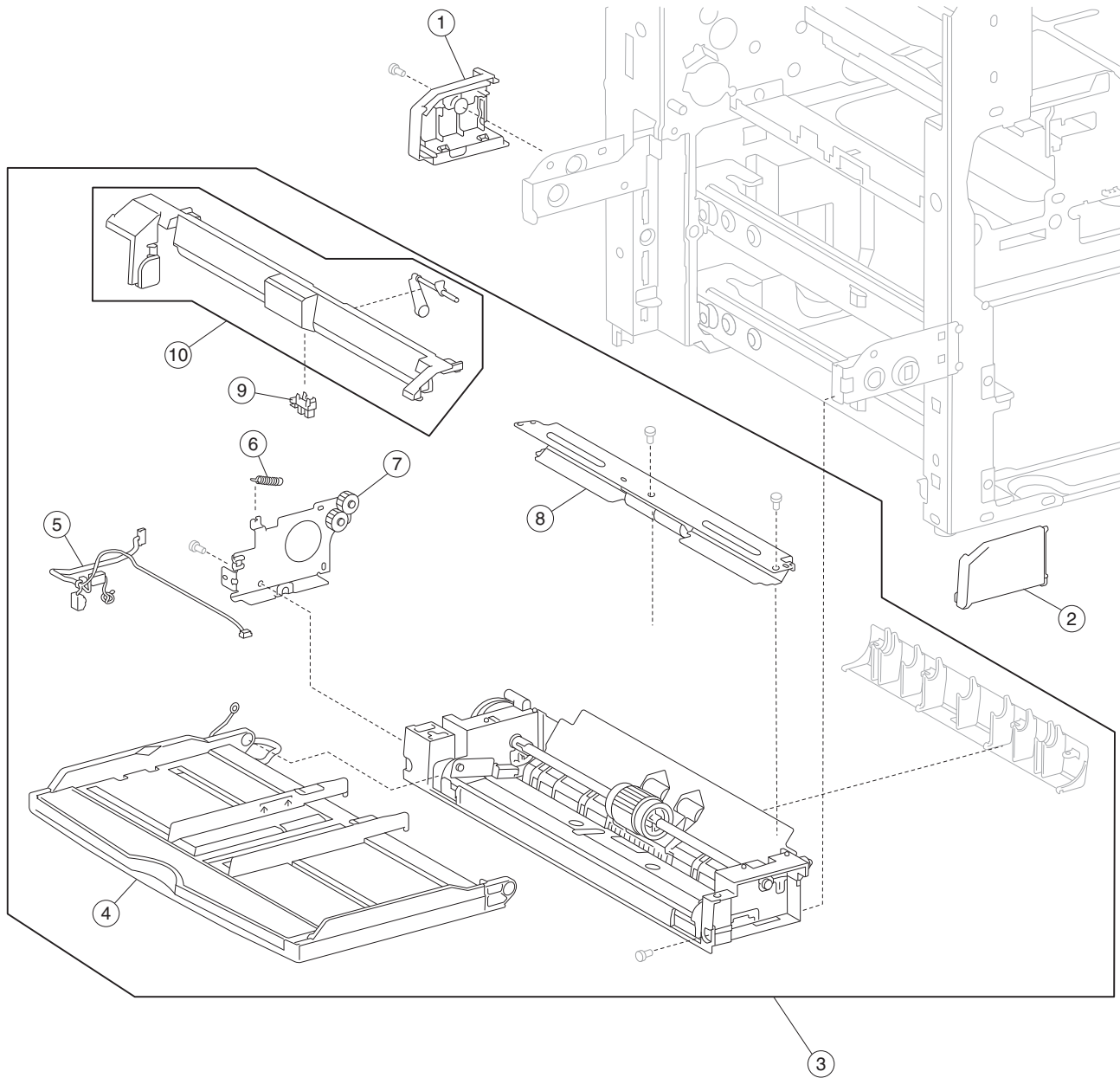


Next



Go Back

Assembly 6: MPF unit



Previous



Next



Go Back

Assembly 6: MPF unit

Asm Index	Part number	Units/mach	Units/kit or pkg	Description
6-1	40X0600	1	1	MPF rear cover
2	40X0599	1	1	MPF front cover
3	40X6000	1	1	MPF feed unit assembly
4	40X0608	1	1	MPF fold down tray assembly
5	40X0597	1	1	MPF unit cable assembly
6	40X0755	1	1	MPF pickup spring
7	40X0598	1	1	MPF idler gear bracket assembly
8	40X0601	1	1	MPF transport pinch roll assembly
9	40X0588	1	1	Sensor (MPF media out)
10	40X0596	1	2	MPF media out actuator kit includes: <ul style="list-style-type: none"> • MPF media out actuator • Upper frame

Previous

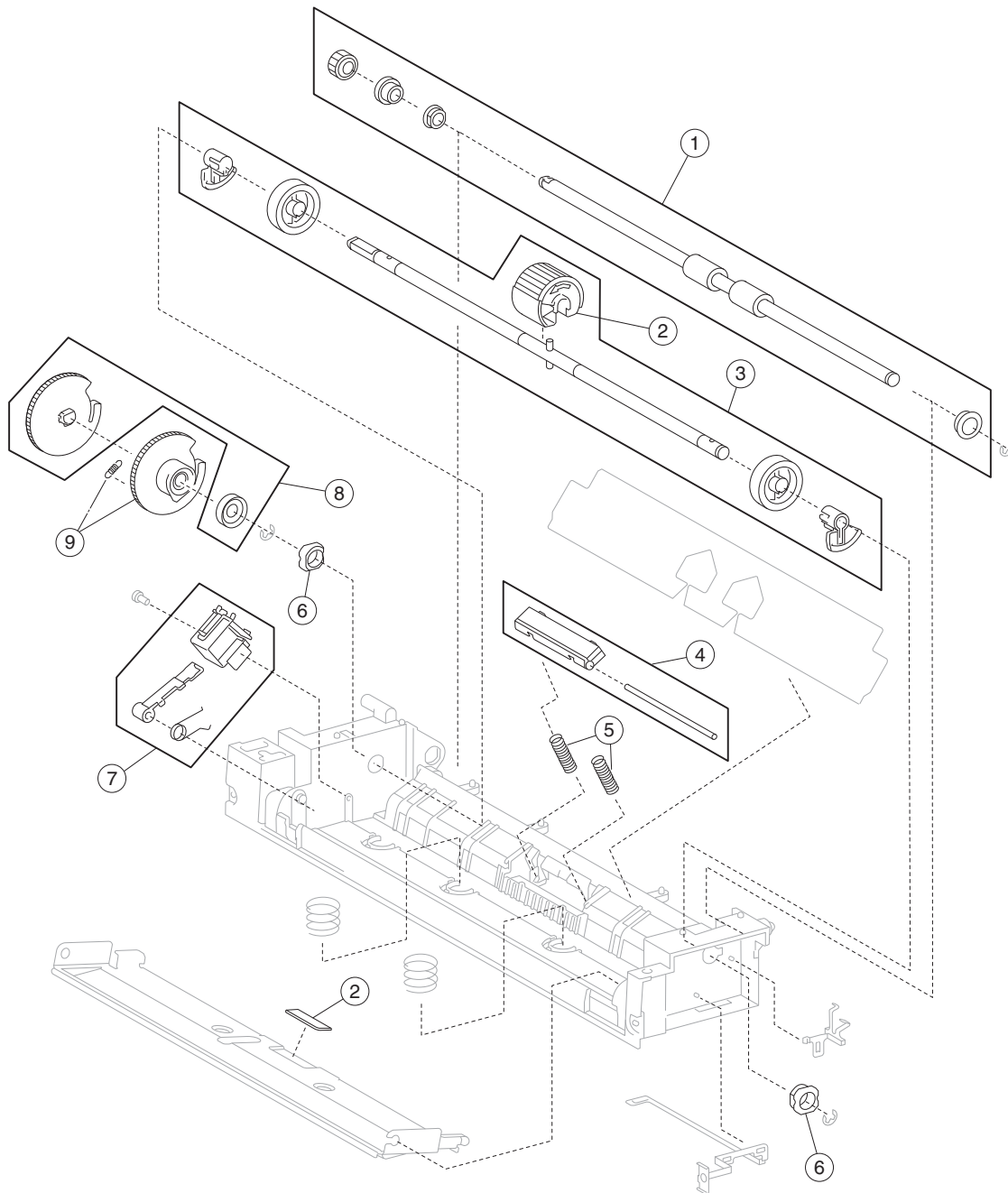


Next



Go Back

Assembly 7: MPF unit feed



Previous



Next



Go Back

Assembly 7: MPF unit feed

Asm Index	Part number	Units/mach	Units/kit or pkg	Description
7-1	40X0605	1	5	MPF transport roll kit includes: <ul style="list-style-type: none"> • MPF transport shaft collar • MPF transport gear 18T • MPF transport roll assembly • Bushing 8 mm (2 each)
2	40X0603	1	2	MPF pick roll kit includes: <ul style="list-style-type: none"> • MPF pressure pad • MPF pick roll assembly
3	40X1382	1	6	MPF feed shaft kit includes: <ul style="list-style-type: none"> • MPF feed shaft • MPF feed shaft cam rear • MPF feed shaft cam front • MPF feed shaft roll core (2 each) • MPF feed roll assembly
4	40X0974	1	2	MPF pressure pad kit includes: <ul style="list-style-type: none"> • Shaft • MPF pressure pad
5	40X1380	2	1	MPF pressure pad spring
6	40X1381	2	1	MPF feed shaft bushing
7	40X0606	1	3	MPF pick solenoid kit includes: <ul style="list-style-type: none"> • Pick lever • Pick solenoid • Spring
8	40X0971	1	2	MPF feed drive gear kit includes: <ul style="list-style-type: none"> • MPF feed gear • MPF feed gear stopper
9	40X0973	1	2	MPF feed cam gear kit includes: <ul style="list-style-type: none"> • MPF feed cam gear • Spring

Previous

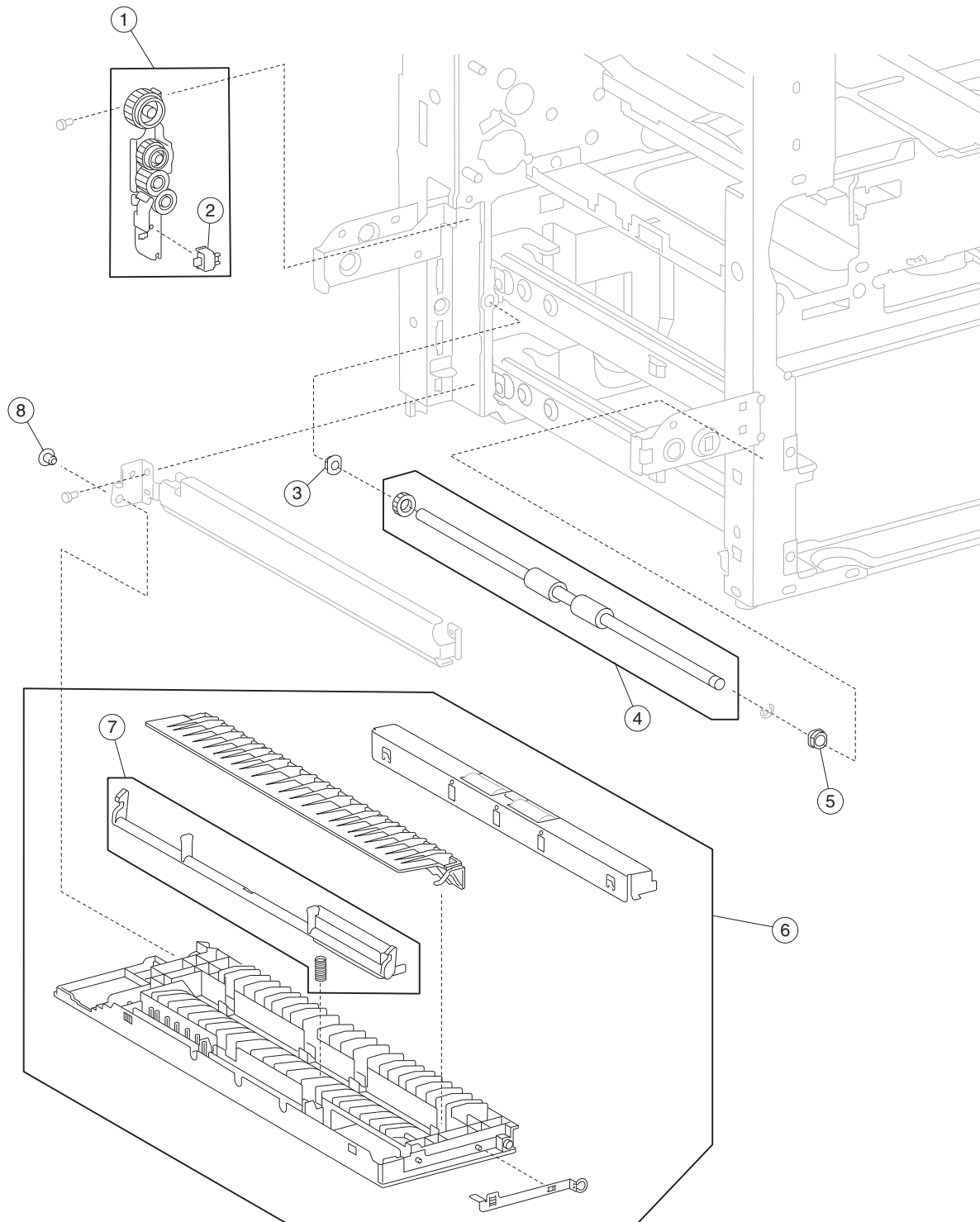


Next



Go Back

Assembly 8: Left lower door and transport



Previous



Next



Go Back

Assembly 8: Left lower door and transport

Asm Index	Part number	Units/mach	Units/kit or pkg	Description
8-1	40X0609	1	1	Vertical drive gear assembly
2	40X0610	1	1	Switch (left lower door interlock)
3	40X1386	1	1	Bushing 6 mm (transport roll rear)
4	40X1387	1	2	Transport roll kit includes: <ul style="list-style-type: none"> • Transport roll assembly • Transport roll gear 18T
5	40X1388	1	1	Bushing 8 mm
6	40X0612	1	1	Printer left lower door assembly (this comes assembled)
7	40X0614	1	2	Left lower door handle kit includes: <ul style="list-style-type: none"> • Left lower door handle • Spring
8	40X0613	1	1	Hinge pin

Previous

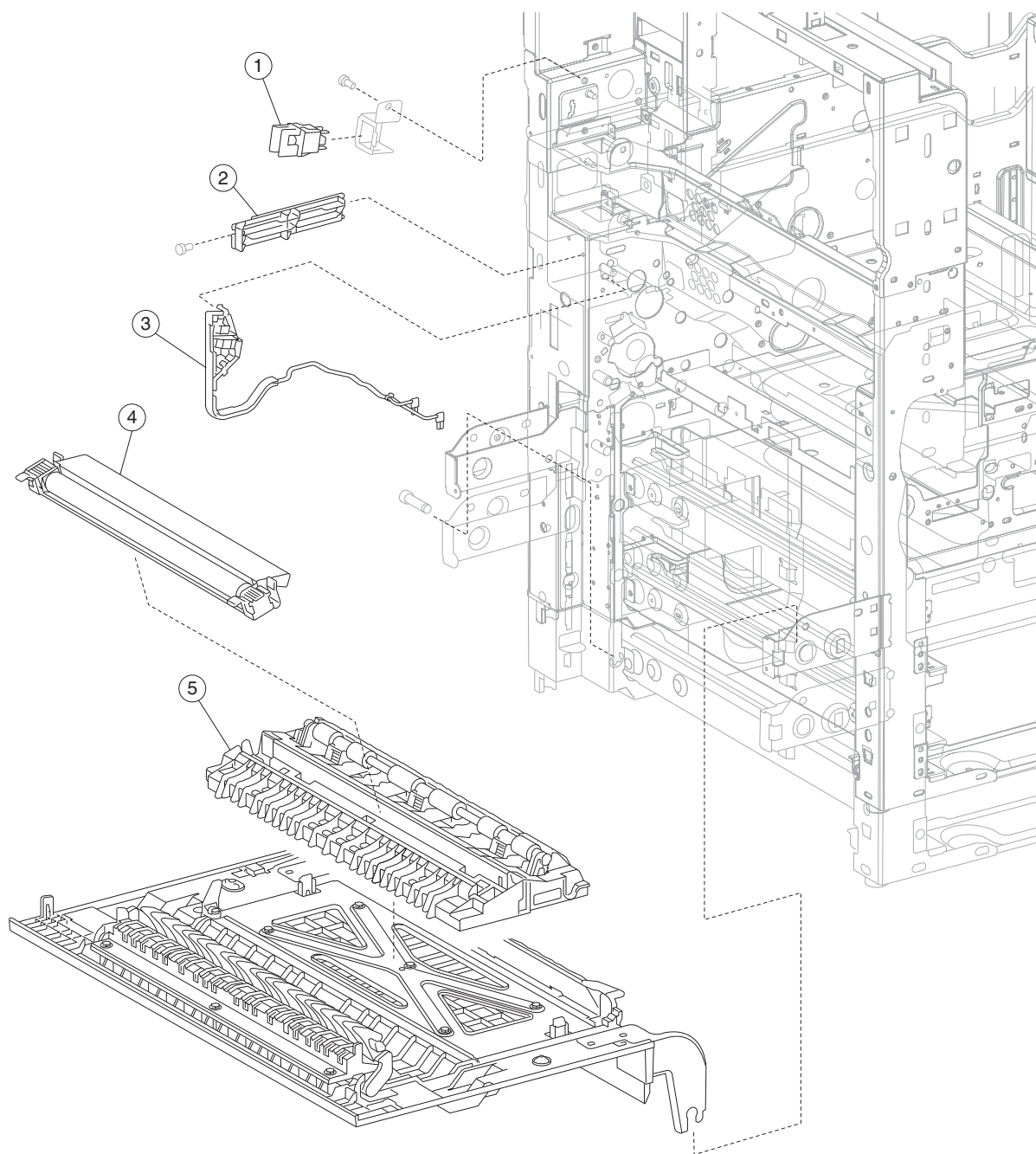


Next



Go Back

Assembly 9: Left door and transfer roll



Previous



Next



Go Back

Assembly 9: Left door and transfer roll

Asm Index	Part number	Units/mach	Units/kit or pkg	Description
9-1	40X0553	1	1	Switch (printer left door interlock)
2	40X0618	1	1	PC cartridge shutter link
3	40X0617	1	1	Transfer roll power contact
4	40X0616	1	1	Transfer roll assembly
5	40X0619	1	1	Transfer roll guide assembly

Previous

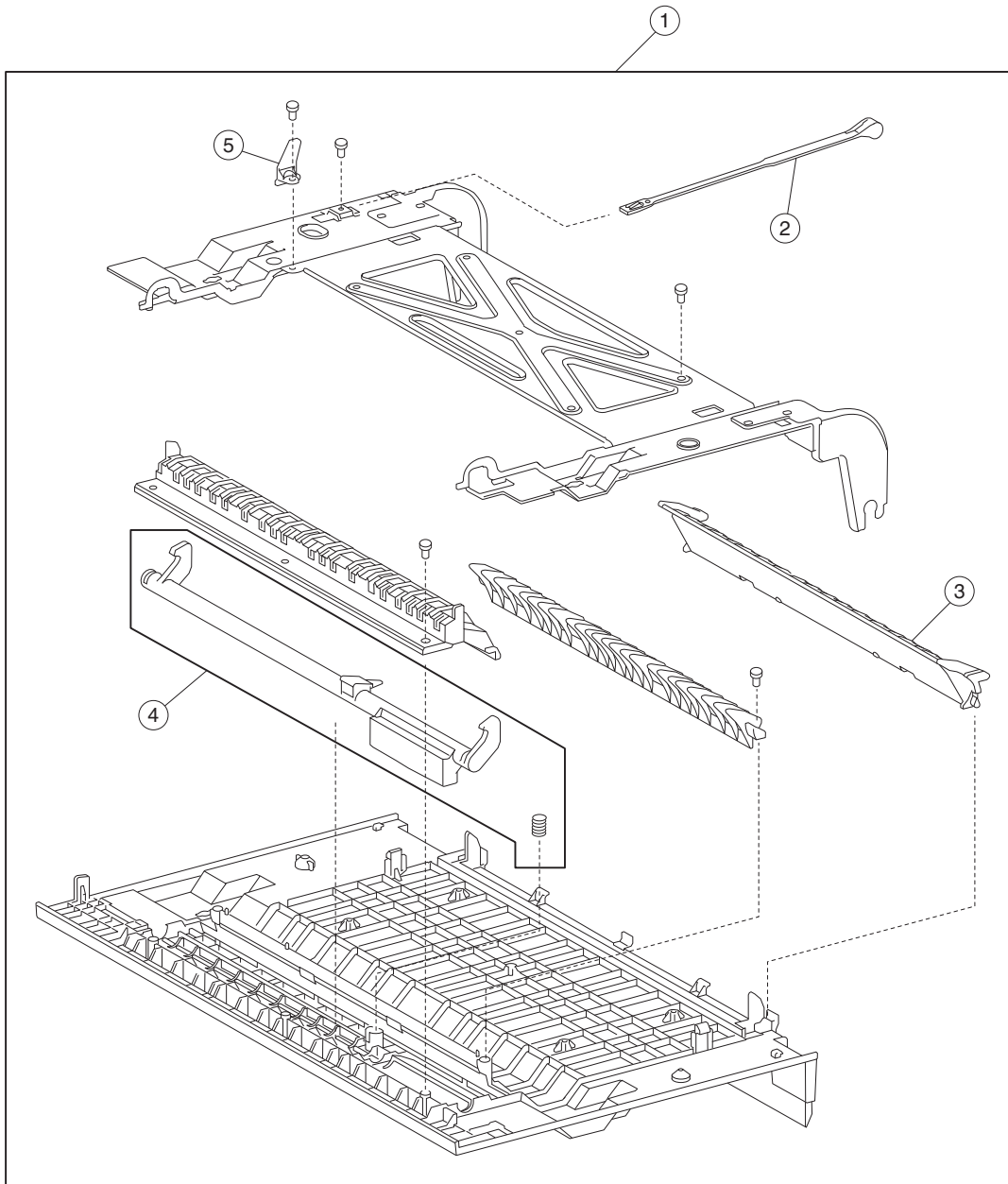


Next



Go Back

Assembly 10: Printer left door



Previous



Next



Go Back

Assembly 10: Printer left door

Asm Index	Part number	Units/mach	Units/kit or pkg	Description
10-1	40X0620	1	1	Printer left door assembly (this comes assembled)
2	40X0624	1	1	Printer left door support strap
3	40X0623	1	1	Left door duplex entrance guide
4	40X0621	1	2	Printer left door assembly handle kit includes: <ul style="list-style-type: none"> • Printer left door assembly handle • Spring
5	40X0622	1	1	PC cartridge shutter actuator

Previous

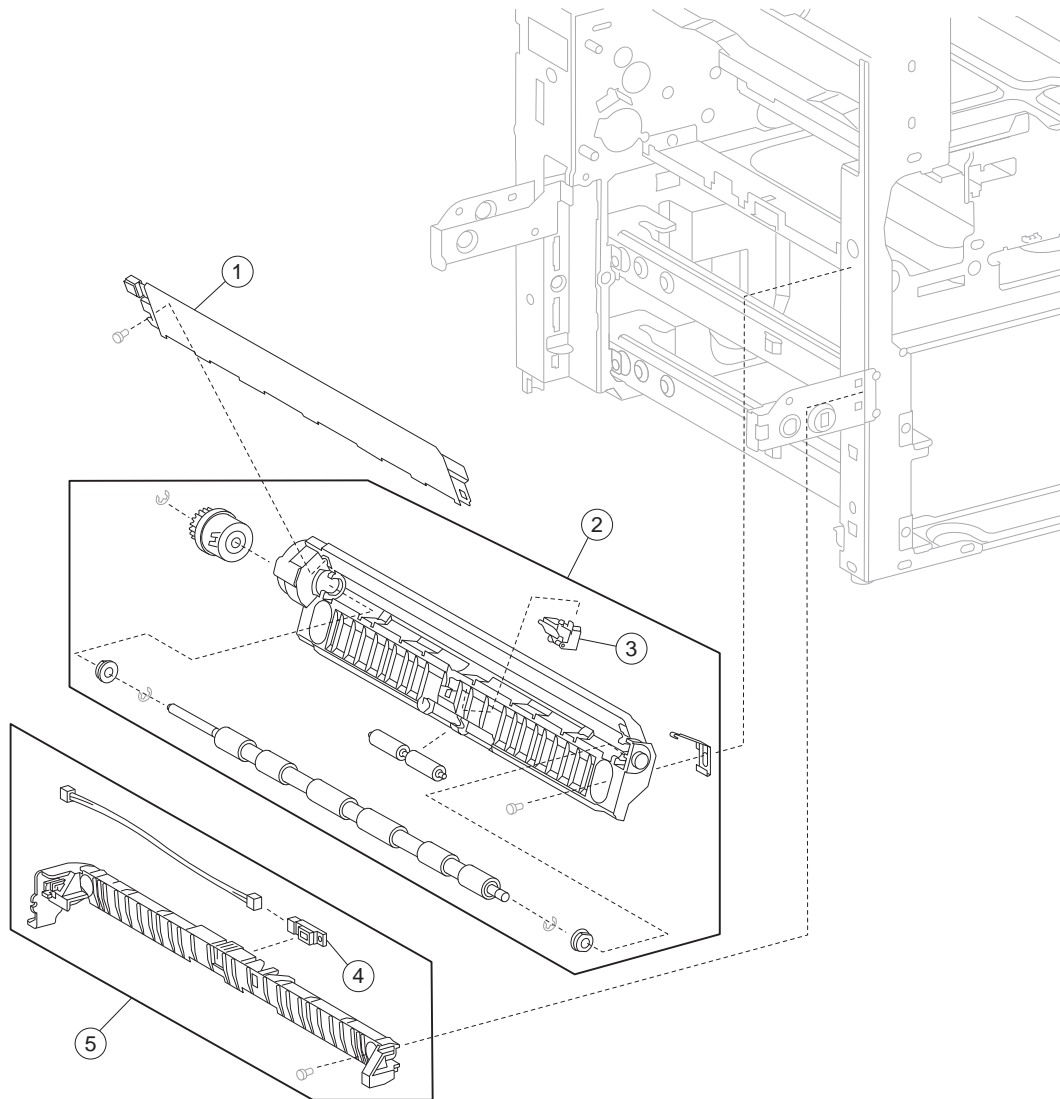


Next



Go Back

Assembly 11: Registration



Previous



Next



Go Back

Assembly 11: Registration

Asm Index	Part number	Units/mach	Units/kit or pkg	Description
11-1	40X0628	1	1	Registration mylar guide assembly (this comes assembled)
2	40X0625	1	1	Registration roll assembly
3	40X0627	1	1	Sensor (registration)
4	40X0589	1	1	Sensor (tray 2 feed-out)
5	40X0630	1	1	Tray 2 feed-out sensor guide (this comes assembled)

Previous

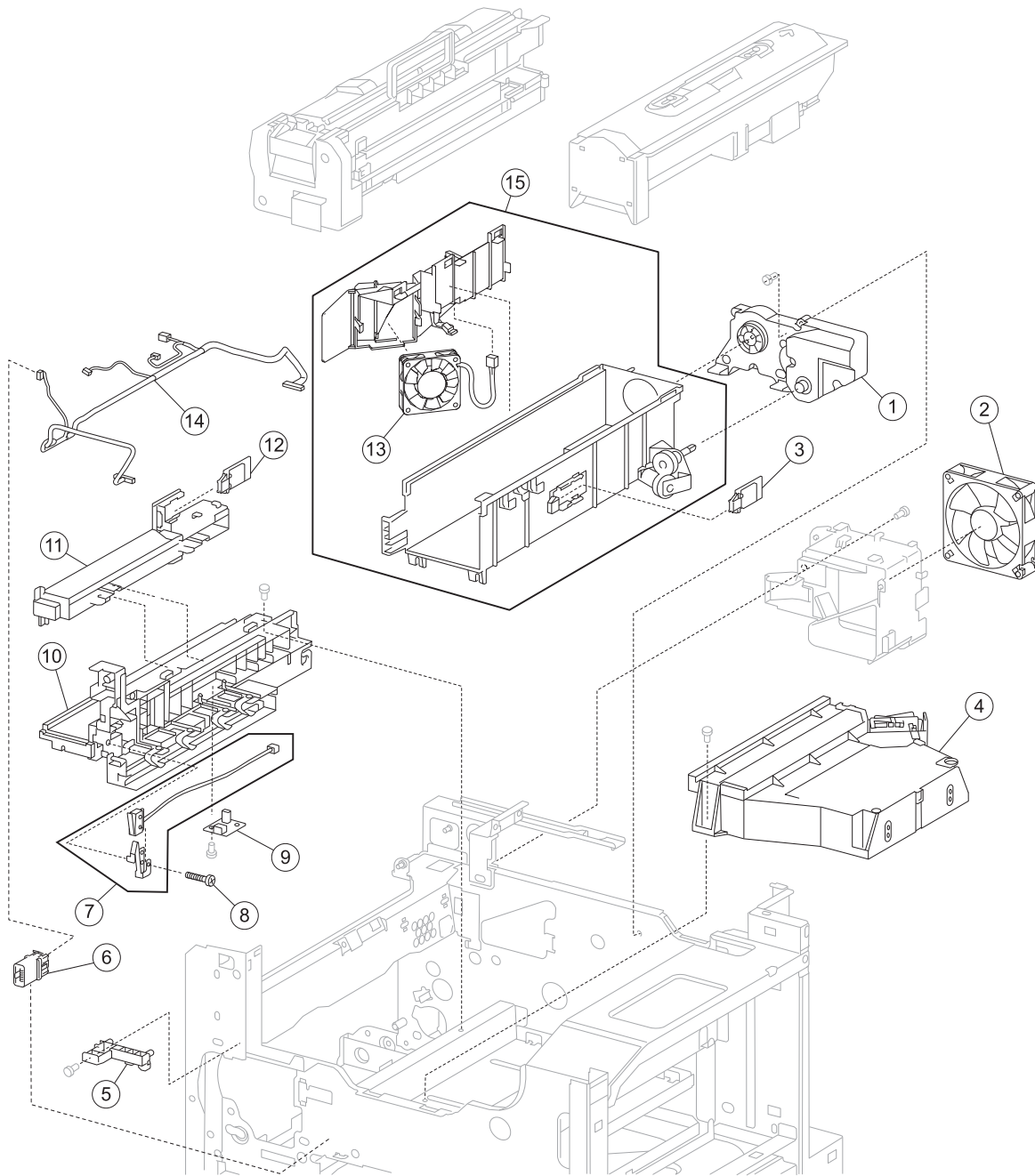


Next



Go Back

Assembly 12: Printhead, cartridge guides, and fans



Previous



Next



Go Back

Assembly 12: Printhead, cartridge guides, and fans

Asm Index	Part number	Units/mach	Units/kit or pkg	Description
12-1	40X0639	1	1	Toner add motor assembly
2	40X0640	1	1	Fuser cooling fan
3	40X0636	1	1	Sensor (RFID toner cartridge)
4	40X0641	1	1	Printhead assembly
5	40X0631	1	1	PC cartridge stop
6	40X0644	1	1	PC cartridge sensor connector
7	40X1390	1	2	Switch (PC cartridge interlock) kit includes: <ul style="list-style-type: none"> • Backup spring • Switch (PC cartridge interlock)
8	40X1389	1	1	PC cartridge interlock switch screw
9	40X0633	1	1	Sensor (hum & temp)
10	40X0634	1	1	PC cartridge guide assembly
11	40X0635	1	1	Laser opening guide
12	40X0636	1	1	Sensor (RFID PC cartridge)
13	40X0643	1	1	PC cartridge cooling fan
14	40X0637	1	1	Multi connector cable assembly 1
15	40X0638	1	2	Toner cartridge guide kit includes: <ul style="list-style-type: none"> • Toner cartridge guide assembly • PC cartridge cooling fan duct • PC cartridge cooling fan

Note: Assembly index items 2 and 11 are identical sensors with different functions; therefore, they are the same part number with different descriptions.

Previous

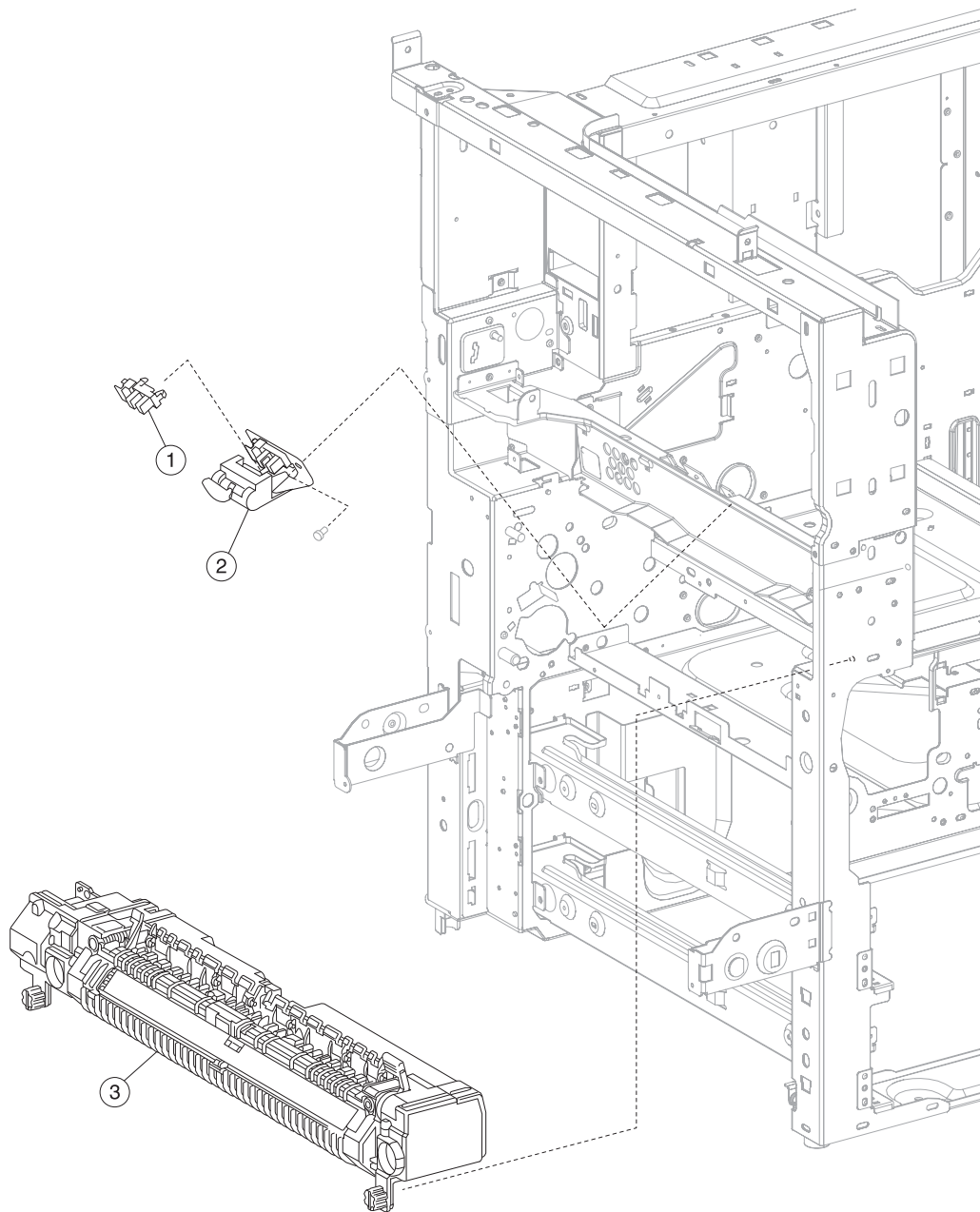


Next



Go Back

Assembly 13: Fuser



Previous



Next



Go Back

Assembly 13: Fuser

Asm Index	Part number	Units/mach	Units/kit or pkg	Description
13-1	40X0588	1	1	Sensor (fuser exit)
2	40X5985	1	1	Sensor (fuser exit) assembly with actuator
3	40X2503	1	1	Fuser assembly 110 V (this comes assembled)
3	40X2504	1	1	Fuser assembly 220 V (this comes assembled)
3	40X2378	1	1	Fuser assembly 100 V (this comes assembled)

Previous

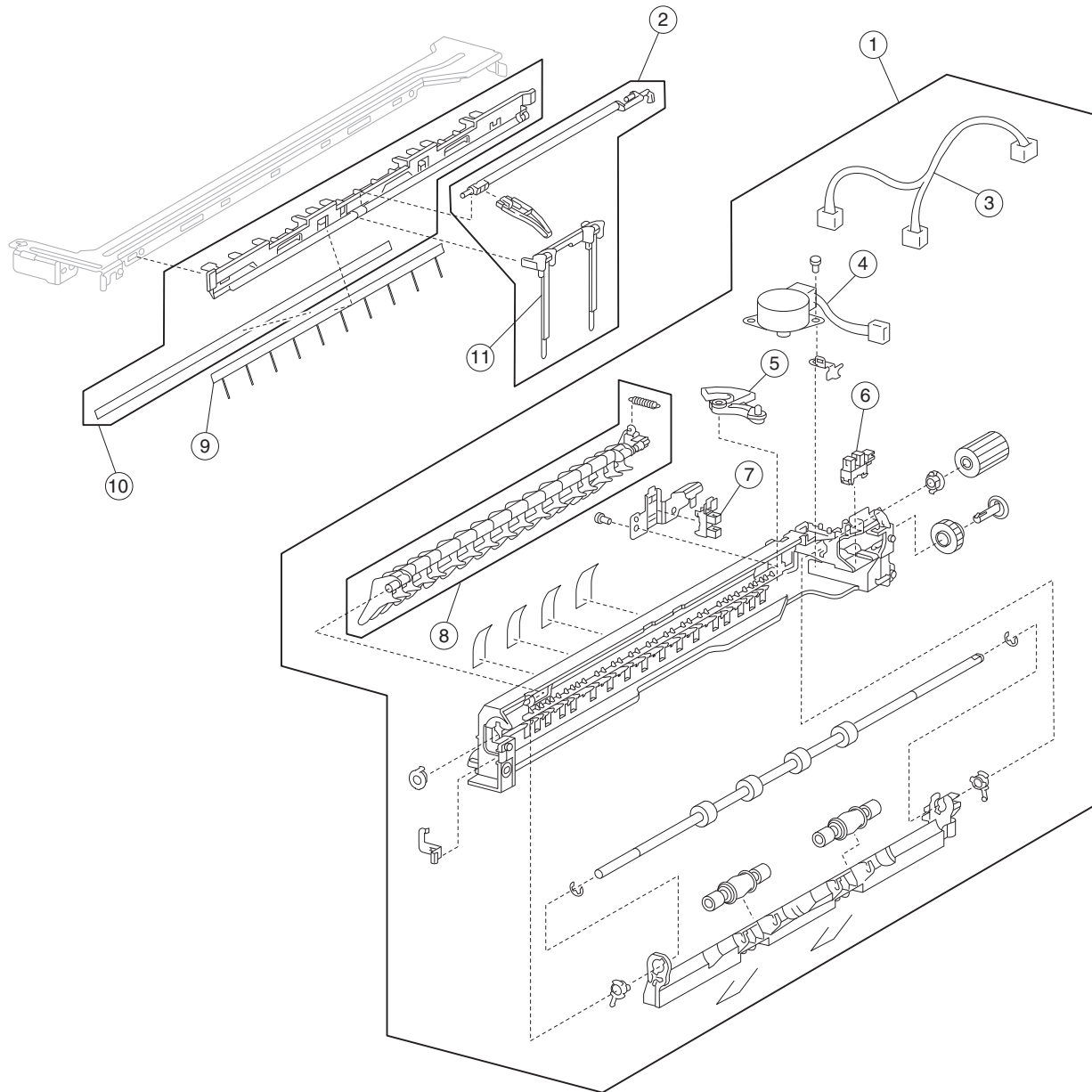


Next



Go Back

Assembly 14: Standard Exit 1



Previous



Next



Go Back

Assembly 14: Standard Exit 1

Asm Index	Part number	Units/mach	Units/kit or pkg	Description
14-1	40X2384	1	1	Exit 1 media shift assembly (this comes assembled)
2	40X0657	1	3	Standard bin full exit 1 actuator kit includes: <ul style="list-style-type: none"> • Standard bin full exit 1 actuator shaft • Standard bin full exit 1 actuator • Output guide
3	40X0650	1	1	Exit 1 sensor cable assembly
4	40X0651	1	1	Media shift motor
5	40X0653	1	1	Exit 1 media shift gear
6	40X0588	1	1	Sensor (standard bin full exit 1)
7	40X0588	1	1	Sensor (exit 1 media shift HP)
8	40X0654	1	2	Media diverter gate kit includes: <ul style="list-style-type: none"> • Media diverter gate • Spring
9	40X1391	1	1	Exit 1 static eliminator
10	40X1392	1	2	Exit 1 media exit guide kit includes: <ul style="list-style-type: none"> • Exit 1 media exit guide • Exit 1 media exit guide pad
11	40X2389	1	1	Output guide

Note: Assembly index items 6 and 7 are identical sensors with different functions; therefore, they are the same part number with different descriptions.

Previous

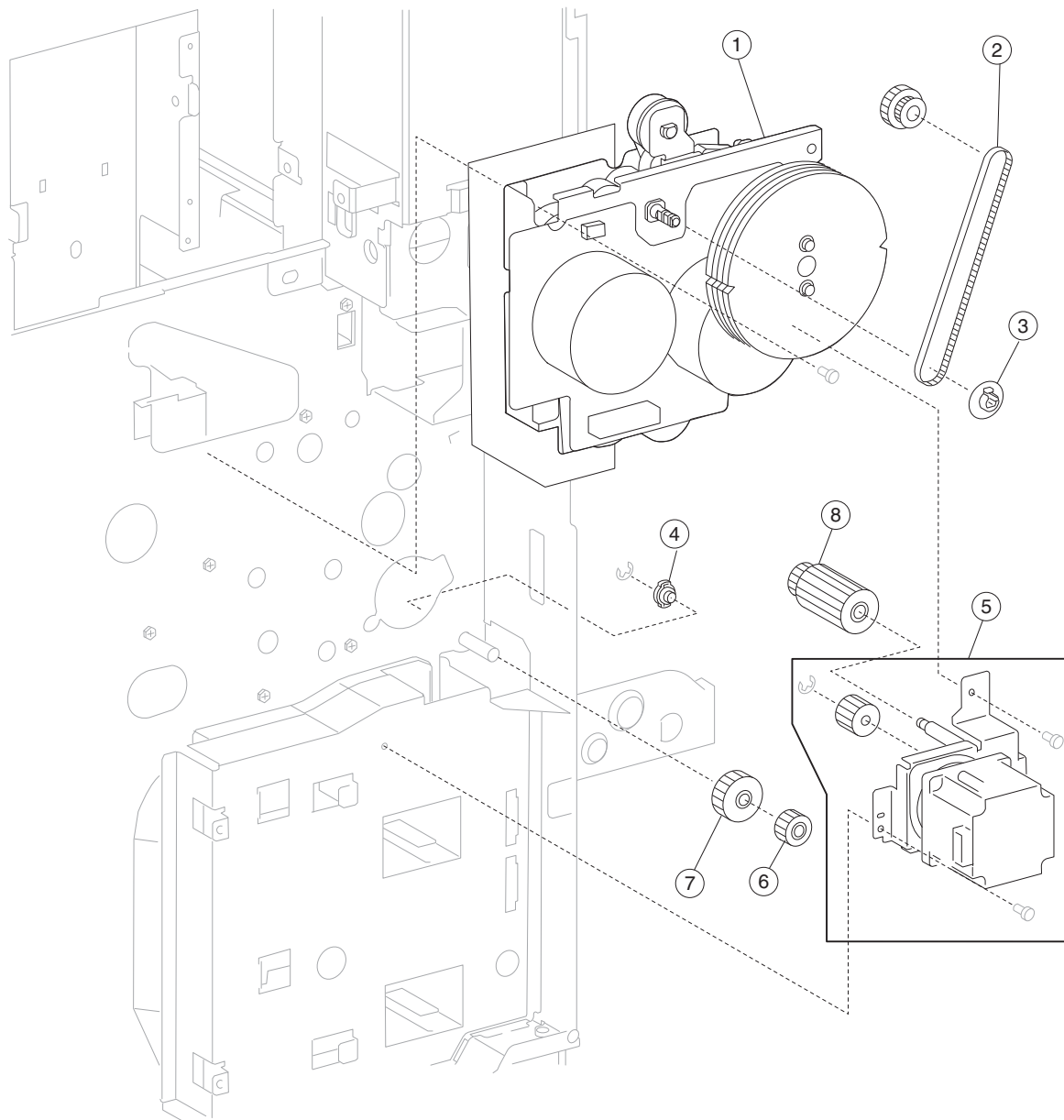


Next



Go Back

Assembly 15: Dual unit drive motor



Previous



Next



Go Back

Assembly 15: Dual unit drive motor

Asm Index	Part number	Units/mach	Units/kit or pkg	Description
15-1	40X0660	1	1	Dual drive motor assembly
2	40X0659	1	1	Exit 1 drive belt
3	40X0661	1	1	Drive belt flange
4	40X2374	1	1	Transport motor support bushing
5	40X2309	1	1	MPF/transport drive motor assembly
6	40X2373	1	1	MPF drive gear 18T
7	40X2372	1	1	Transport roll drive gear 28T
8	40X2310	1	1	MPF/transport drive gear 19/29T

Previous

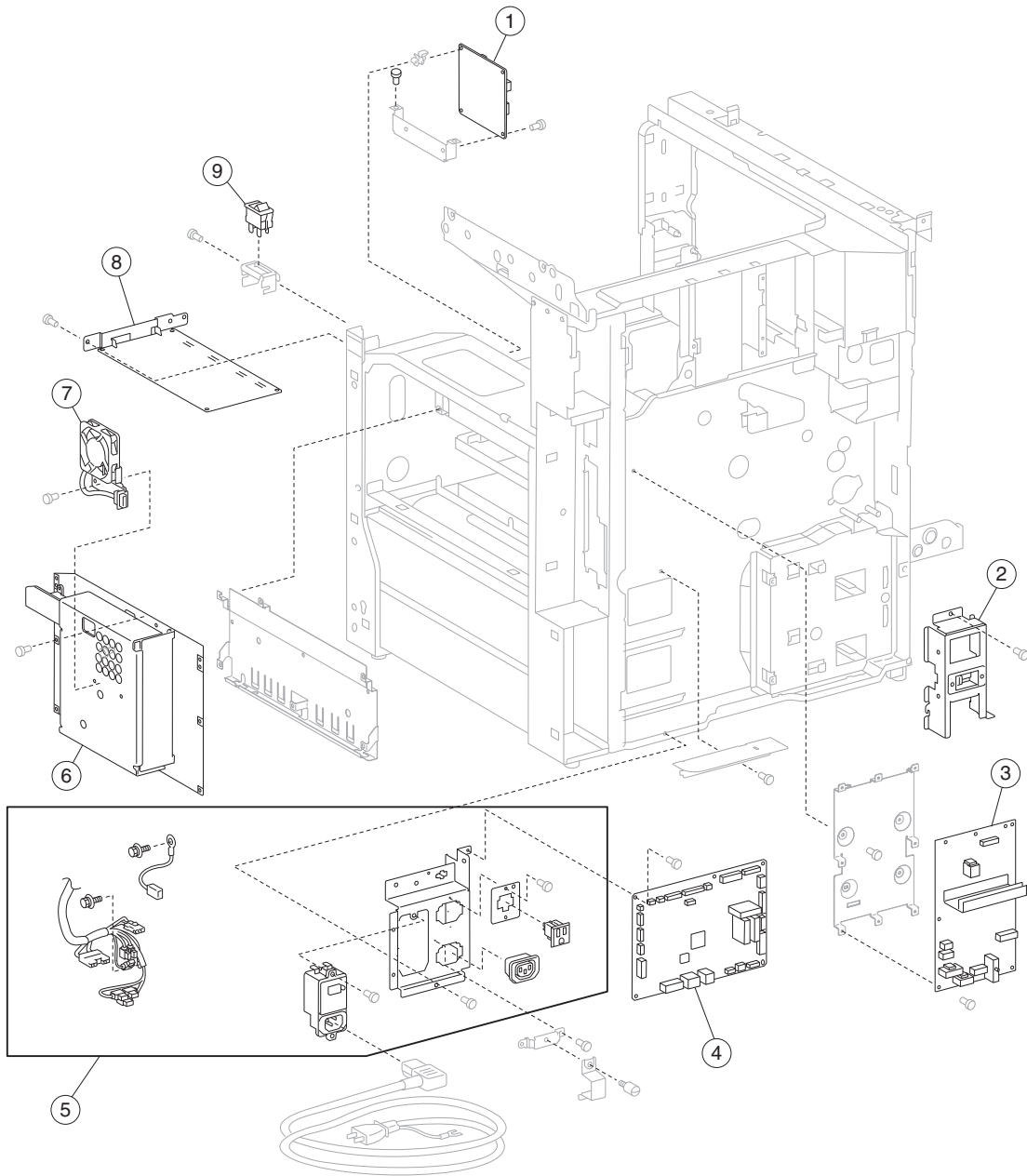


Next



Go Back

Assembly 16: Electrical



Previous



Next



Go Back

Assembly 16: Electrical

Asm Index	Part number	Units/mach	Units/kit or pkg	Description
16-1	40X0664	1	1	Exit interface card assembly
2	40X0673	1	1	HCF hookup connector assembly
3	40X2314	1	1	AC drive card assembly 110 V
3	40X2315	1	1	AC drive card assembly 220 V
4	40X2316	1	1	Printer engine card assembly X860e
4	40X2379	1	1	Printer engine card assembly X862e
4	40X2380	1	1	Printer engine card assembly X864e
5	40X2313	1	7	AC power input socket kit includes: <ul style="list-style-type: none"> • Screws 4 mm (2 each) • Bracket • AC power input socket • Ground wire • Main AC cable assembly • Finisher AC output
6	40X2312	1	1	Universal LVPS card assembly
7	40X2311	1	1	LVPS cooling fan
8	40X0662	1	1	HVPS
9	40X2388	1	1	Switch (main power)

Previous



Next



Go Back

Assembly 16 (continued): Electrical

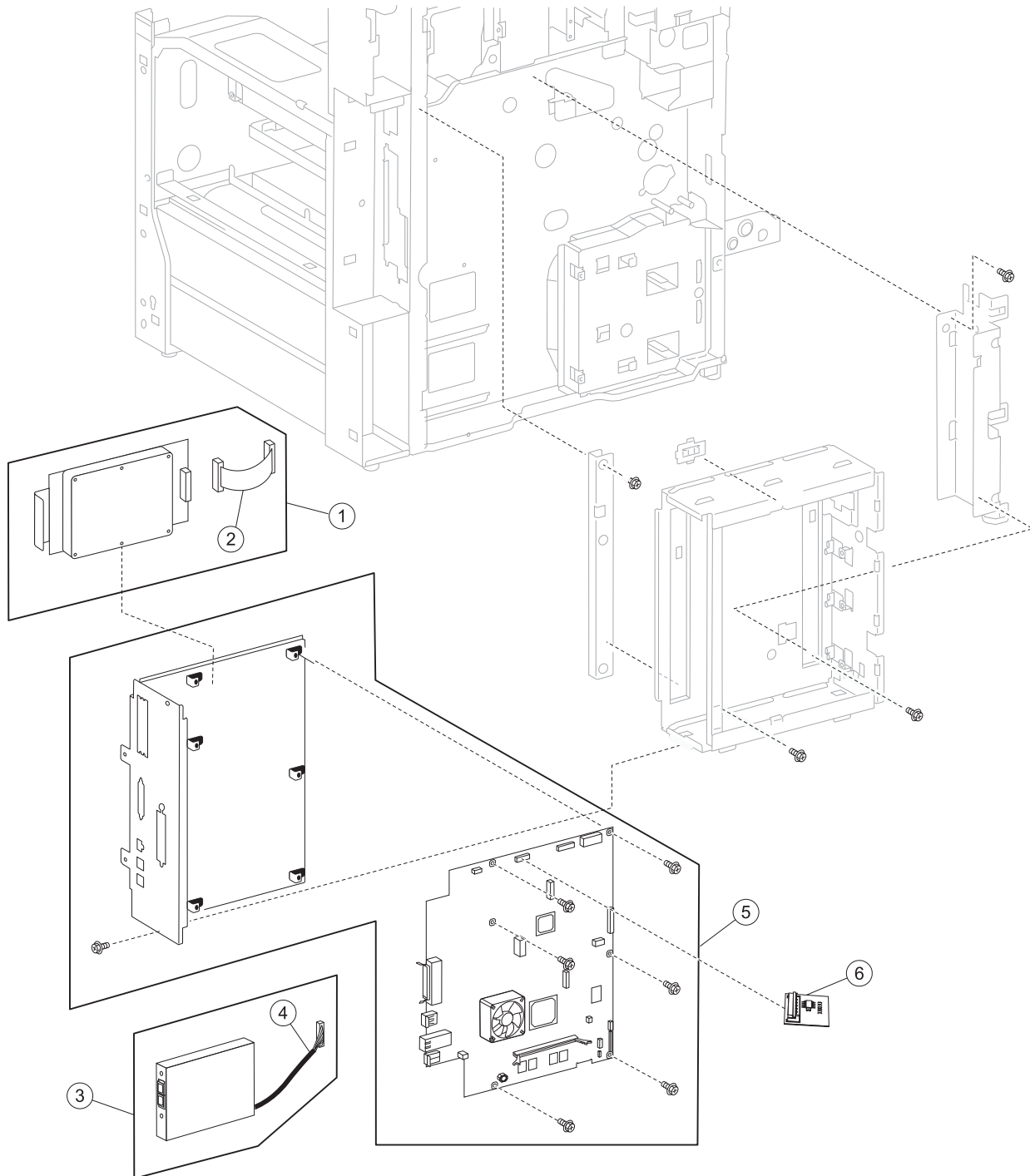
Previous



Next



Go Back



Assembly 16 (continued): Electrical

Asm Index	Part number	Units/mach	Units/kit or pkg	Description
16-1	40X4822	1	1	80 GB hard drive assembly includes: Mounting bracket Interface card
2	40X5316	1	1	Hard drive data cable assembly
3	40X4821	1	1	Fax interface card assembly
4	40X0507	1	1	Fax interface card cable assembly
5	40X6380	1	1	RIP card assembly (this comes assembled)
6	40X6091	1	1	NVRAM card

Important: The replacement RIP card assembly does not contain a NVRAM card. Remove the NVRAM card from the old RIP card and install on the replacement RIP card to restore the NVRAM settings.

Previous



Next



Go Back

Assembly 17: Covers and operator panel

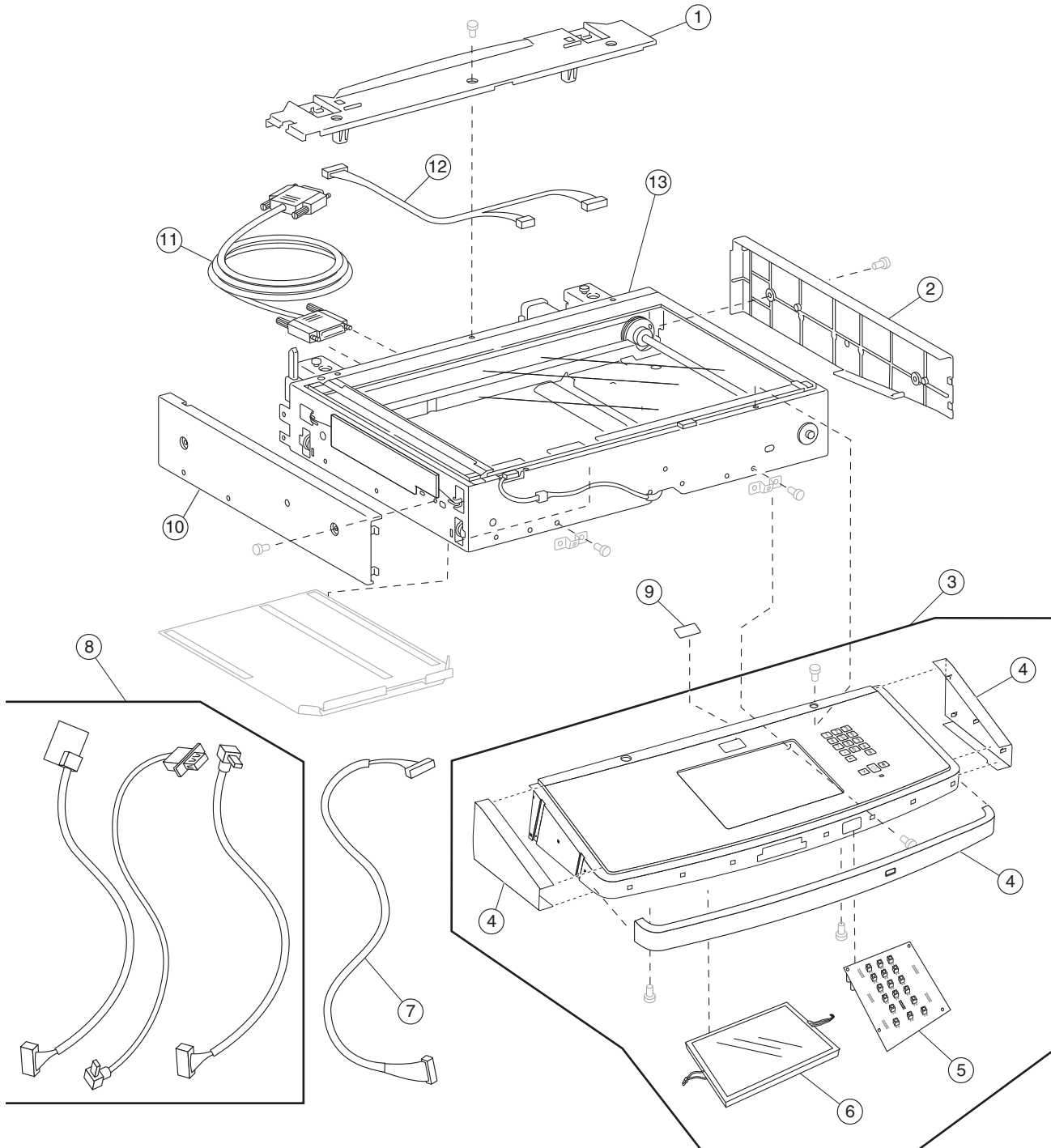
Previous



Next



Go Back



Assembly 17: Covers and operator panel

Asm Index	Part number	Units/mach	Units/kit or pkg	Description
17-1	40X2200	1	1	Scanner top rear cover
2	40X2201	1	1	Scanner right cover
3	40X5555	1	1	Operator panel assembly (universal) Note: This operator panel can be used on any X860 Series product.
4	40X0388	1	1	Operator panel cover assembly w/o Smart card slot
4	40X5554	1	1	Operator panel cover assembly w/ Smart card slot
5	40X5556	1	1	Operator panel controller card
6	40X5557	1	1	Operator panel user touch screen
7	40X5559	1	1	Operator panel cable
8	40X1527	1	1	USB, Smart card, and LED cable assembly
9	40X5568	1	1	Operator panel bezel (X860de, X862de, and X864de)
10	40X2205	1	1	Scanner left cover
11	40X2219	1	1	Scanner interface cable assembly
12	40X2207	1	1	Scanner PS cable assembly
13	40X2206	1	1	Flatbed scanner unit assembly (this comes assembled) Note: This assembly includes all individual parts on pages 7-38, 7-40, 7-42, and 7-44.

Previous

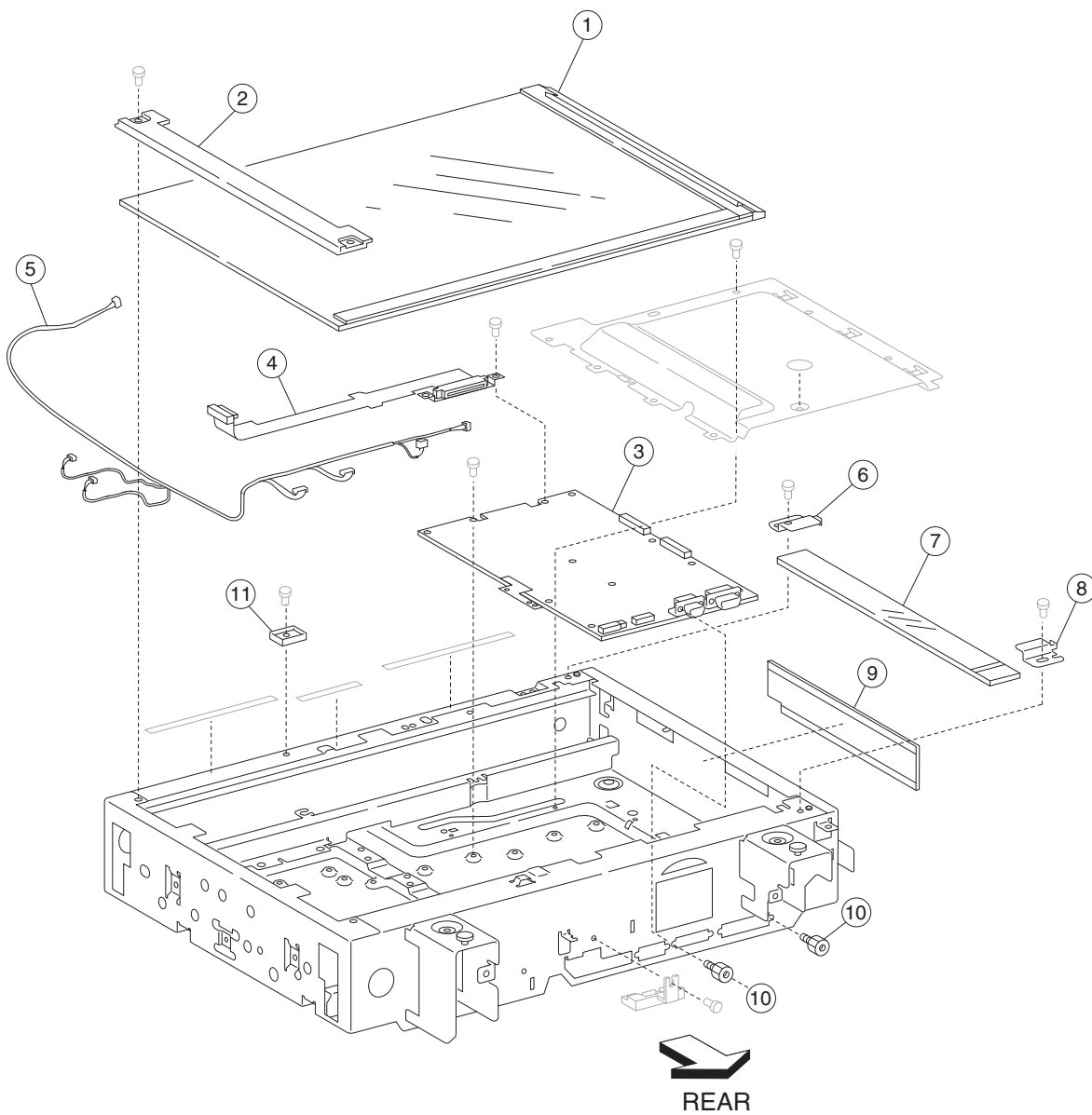


Next



Go Back

Assembly 18: Platen glass



Previous



Next



Go Back

Assembly 18: Platen glass

Asm Index	Part number	Units/mach	Units/kit or pkg	Description
18-1	40X2208	1	1	Large platen glass
2	40X2209	1	1	Large platen glass retainer cover
3	40X2210	1	1	Scanner controller card assembly
4	40X2211	1	1	CCD ribbon cable assembly
5	40X2212	1	1	Scanner main cable assembly
6	40X2213	1	1	Small platen glass front retainer
7	40X2214	1	1	Small platen glass
8	40X2215	1	1	Small platen glass rear retainer
9	40X2216	1	1	Scanner filter
10	40X2217	4	1	Card mounting screws
11	40X2218	1	1	Large platen retainer

Previous

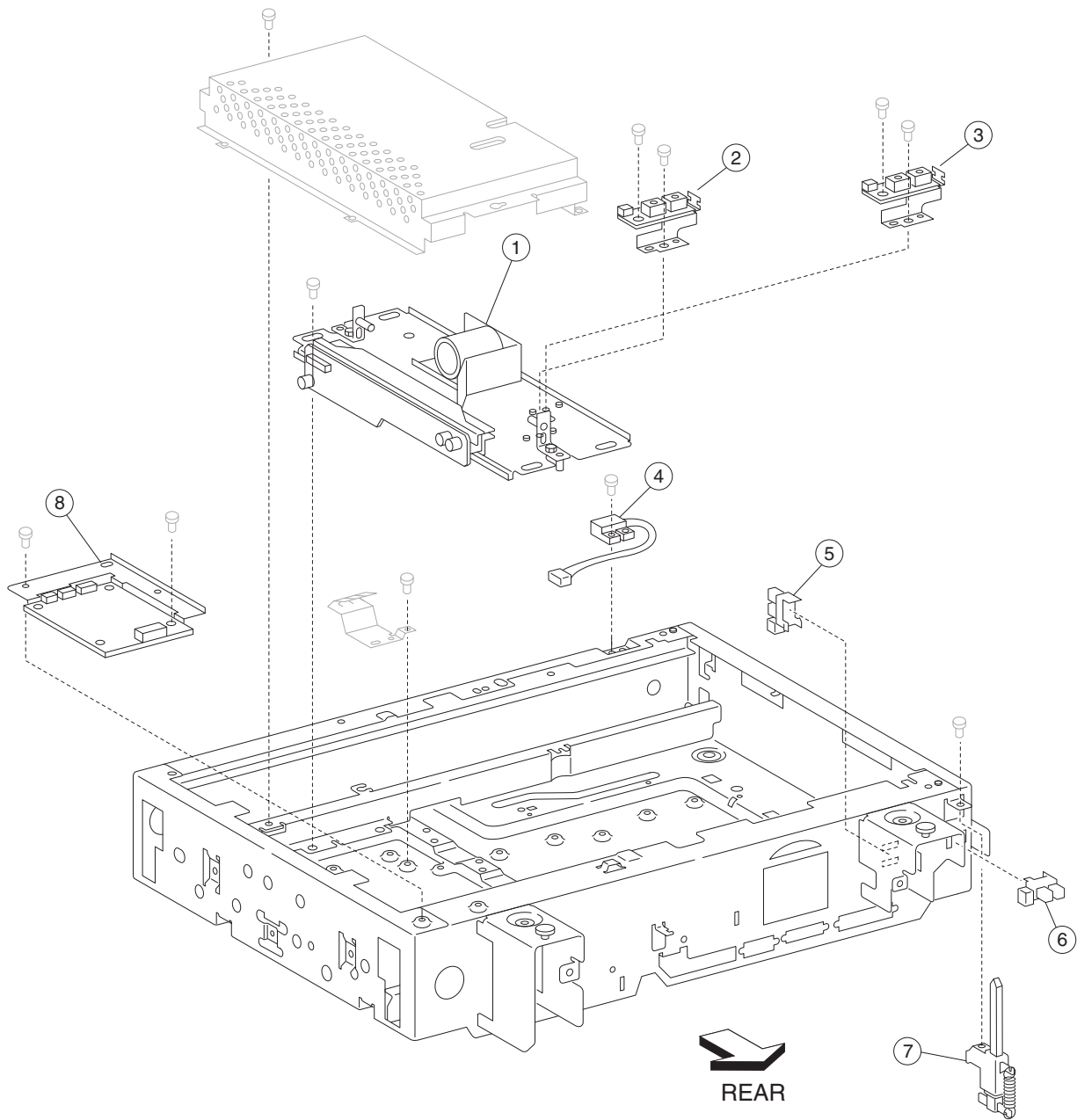


Next



Go Back

Assembly 19: Lens and sensors



Previous



Next



Go Back

Assembly 19: Lens and sensors

Asm Index	Part number	Units/mach	Units/kit or pkg	Description
19-1	40X2220	1	1	CCD card/lens assembly
2	40X2320	2	1	Sensor (platen length APS 1)
3	40X2320	2	1	Sensor (platen length APS 2)
4	40X2222	1	1	Switch (platen interlock)
5	40X2223	13	1	Sensor (Scanner HP)
6	40X2223	13	1	Sensor (ADF angle)
7	40X2224	1	1	ADF angle actuator assembly
8	40X2225	1	1	Scanner PS card assembly

Previous

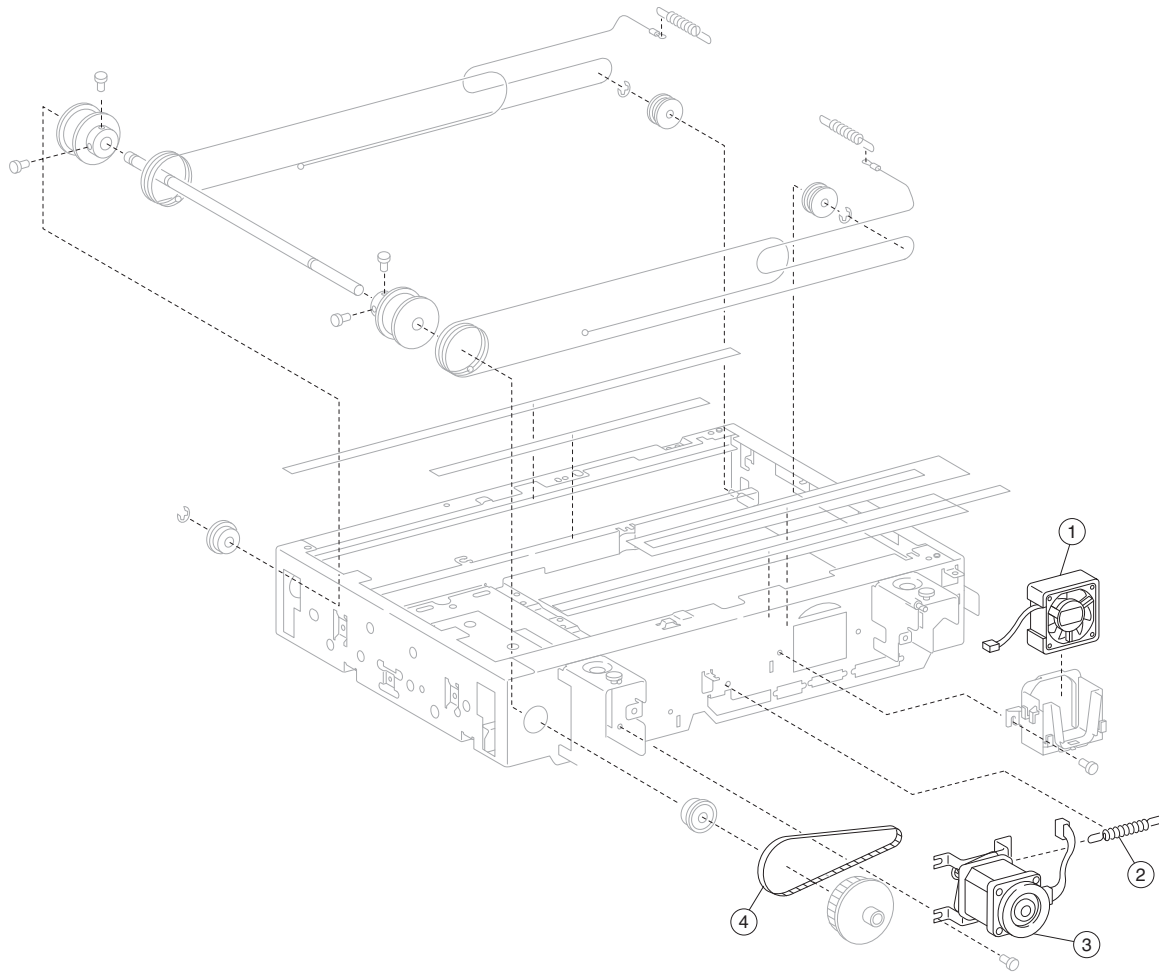


Next



Go Back

Assembly 20: Carriage motor and cooling fan



Previous



Next



Go Back

Assembly 20: Carriage motor and cooling fan

Asm Index	Part number	Units/mach	Units/kit or pkg	Description
20-1	40X2231	1	1	Scanner cooling fan
2	40X2229	1	1	Scanner drive motor tension spring
3	40X2228	1	1	Scanner drive motor assembly
4	40X2226	1	1	Scanner drive belt

Previous

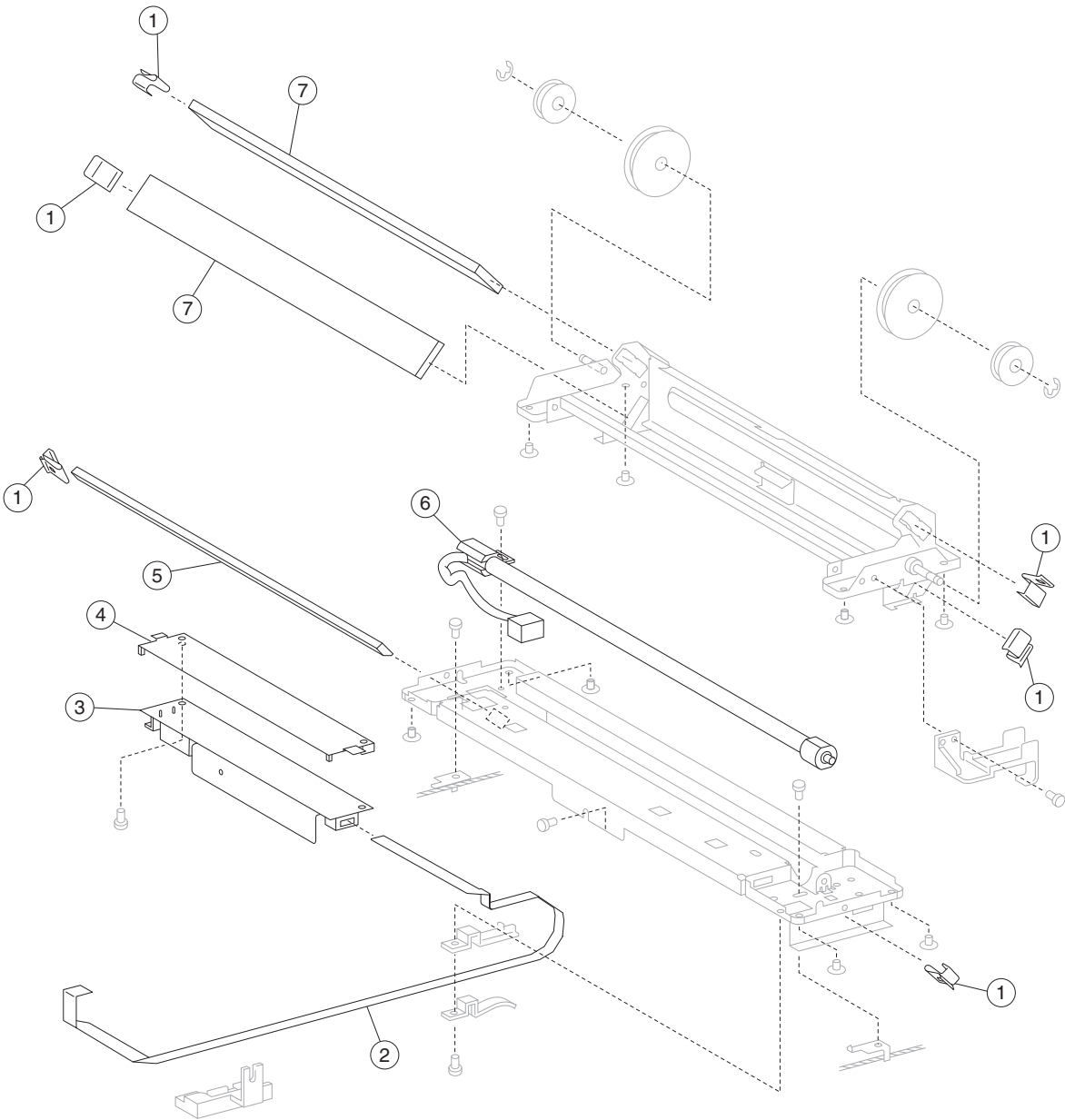


Next



Go Back

Assembly 21: Full/half rate carriage



Previous



Next



Go Back

Assembly 21: Full/half rate carriage

Asm Index	Part number	Units/mach	Units/kit or pkg	Description
21-1	40X2233	6	1	Mirror retaining clip
2	40X2236	1	1	Exposure lamp PS ribbon cable
3	40X2353	1	1	Exposure lamp PS card assembly
4	40X2352	1	1	Exposure lamp PS card insulator
5	40X2234	1	1	Scanner 1st mirror
6	40X2237	1	1	Exposure lamp
7	40X2232	2	1	Scanner 2nd/3rd mirror

Previous

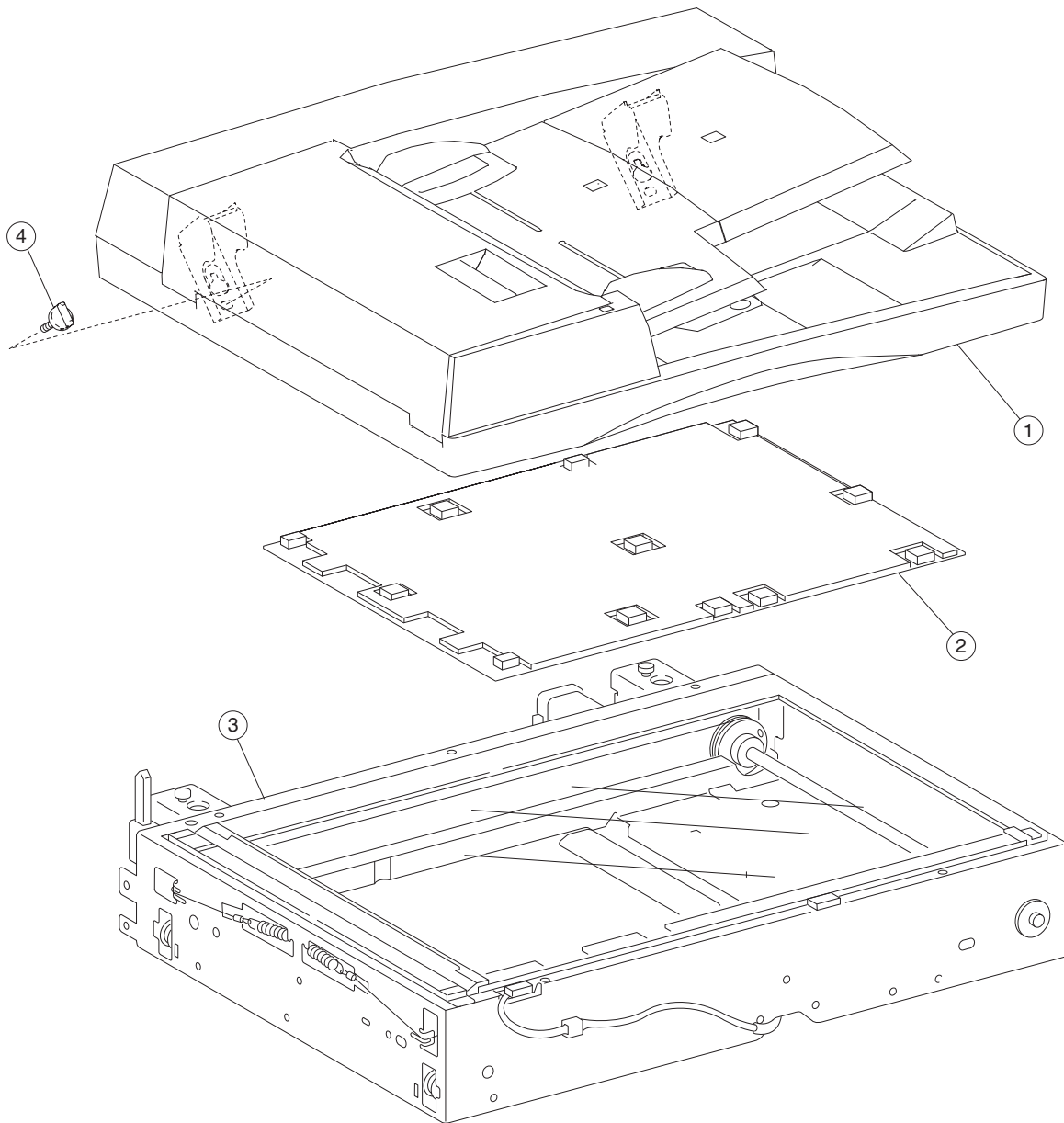


Next



Go Back

Assembly 22: ADF assembly



Previous



Next



Go Back

Assembly 22: ADF assembly

Asm Index	Part number	Units/mach	Units/kit or pkg	Description
22-1	40X2240	1	1	ADF unit assembly (complete unit)
2	40X2239	1	1	Platen cushion
3	40X2206	1	1	Flatbed scanner unit assembly
4	40X2238	2	1	ADF mounting screw

Previous

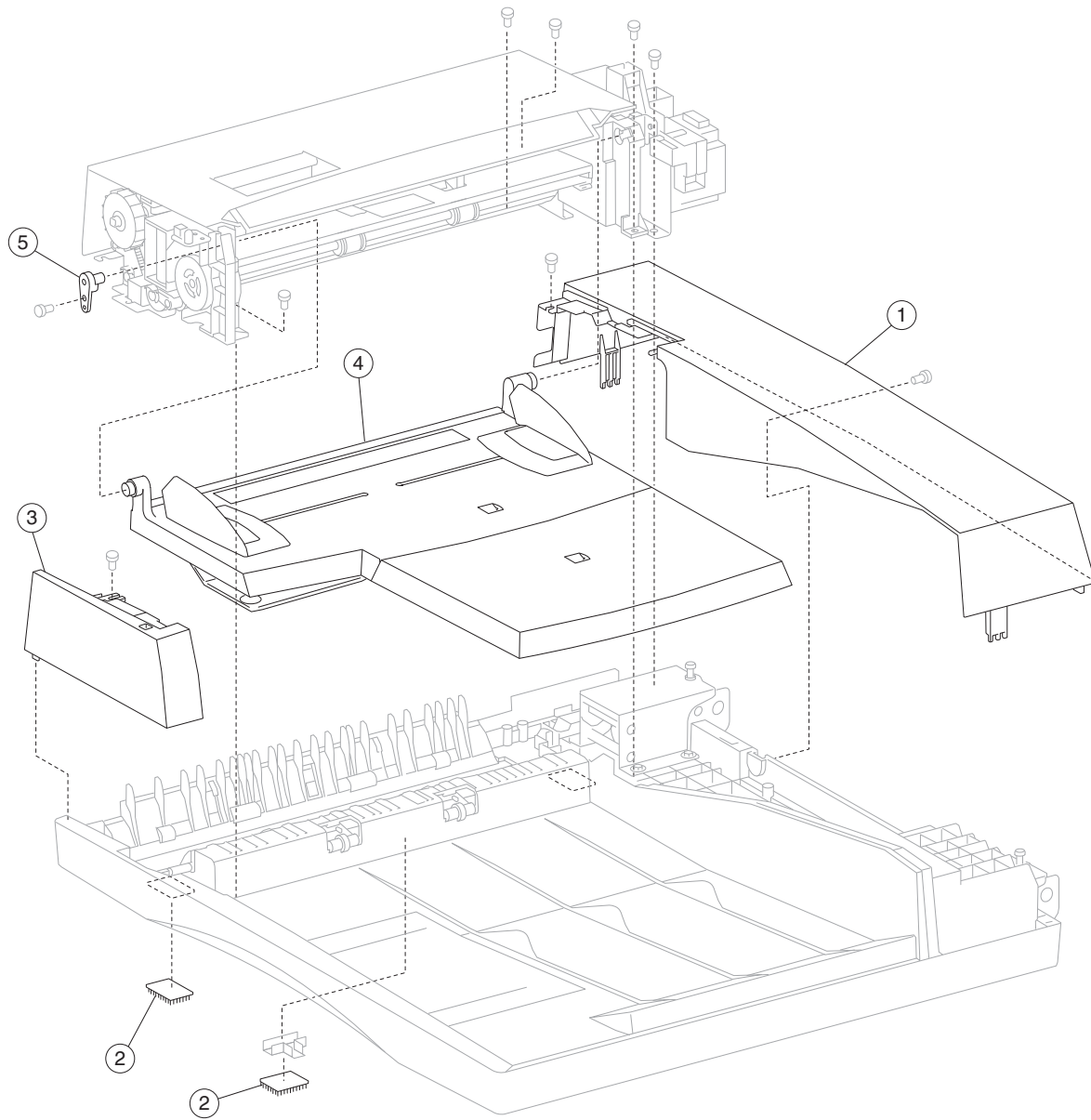


Next



Go Back

Assembly 23: ADF covers and components



Previous



Next



Go Back

Assembly 23: ADF covers and components

Asm Index	Part number	Units/mach	Units/kit or pkg	Description
23-1	40X2244	1	1	ADF rear cover
2	40X2246	2	1	Small hook/loop strip
3	40X2245	1	1	ADF front cover assembly
4	40X2242	1	1	Document tray assembly (this comes assembled)
5	40X2243	1	1	Document tray hinge

Previous

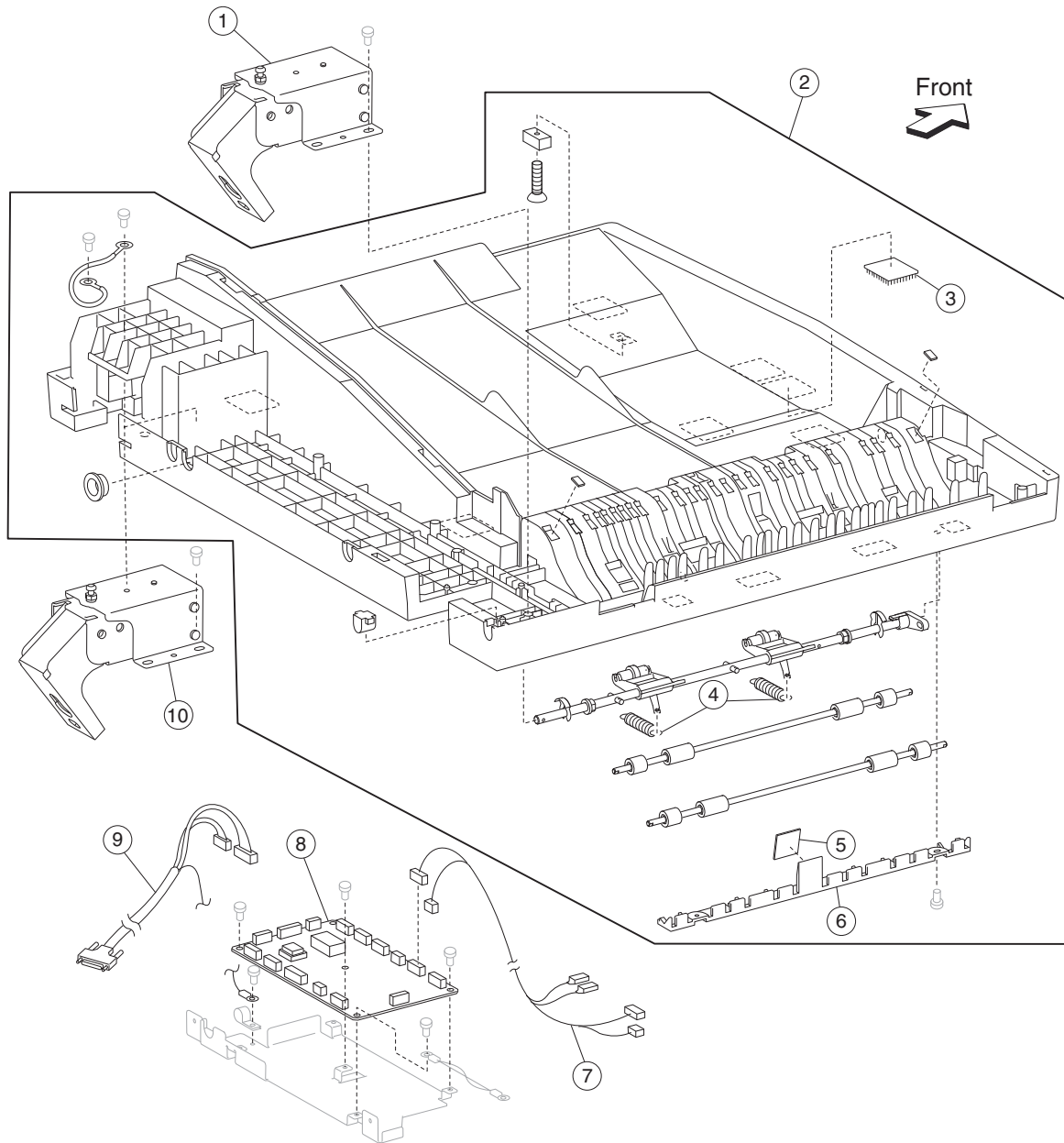


Next



Go Back

Assembly 24: ADF base



Previous



Next



Go Back

Assembly 24: ADF base

Asm Index	Part number	Units/mach	Units/kit or pkg	Description
24-1	40X2257	1	1	ADF left hinge
2	40X2371	1	1	ADF registration pinch/frame assembly (this comes assembled)
3	40X2247	7	1	Large hook/loop strip
4	40X2330	5	1	Spring
5	40X2354	1	1	Registration pad
6	40X2355	1	1	Registration pad cover
7	40X2248	1	1	Solenoid/interlock cable assembly
8	40X2260	1	1	ADF controller card assembly
9	40X2259	1	1	ADF interface cable assembly
10	40X2258	1	1	ADF right hinge

Previous

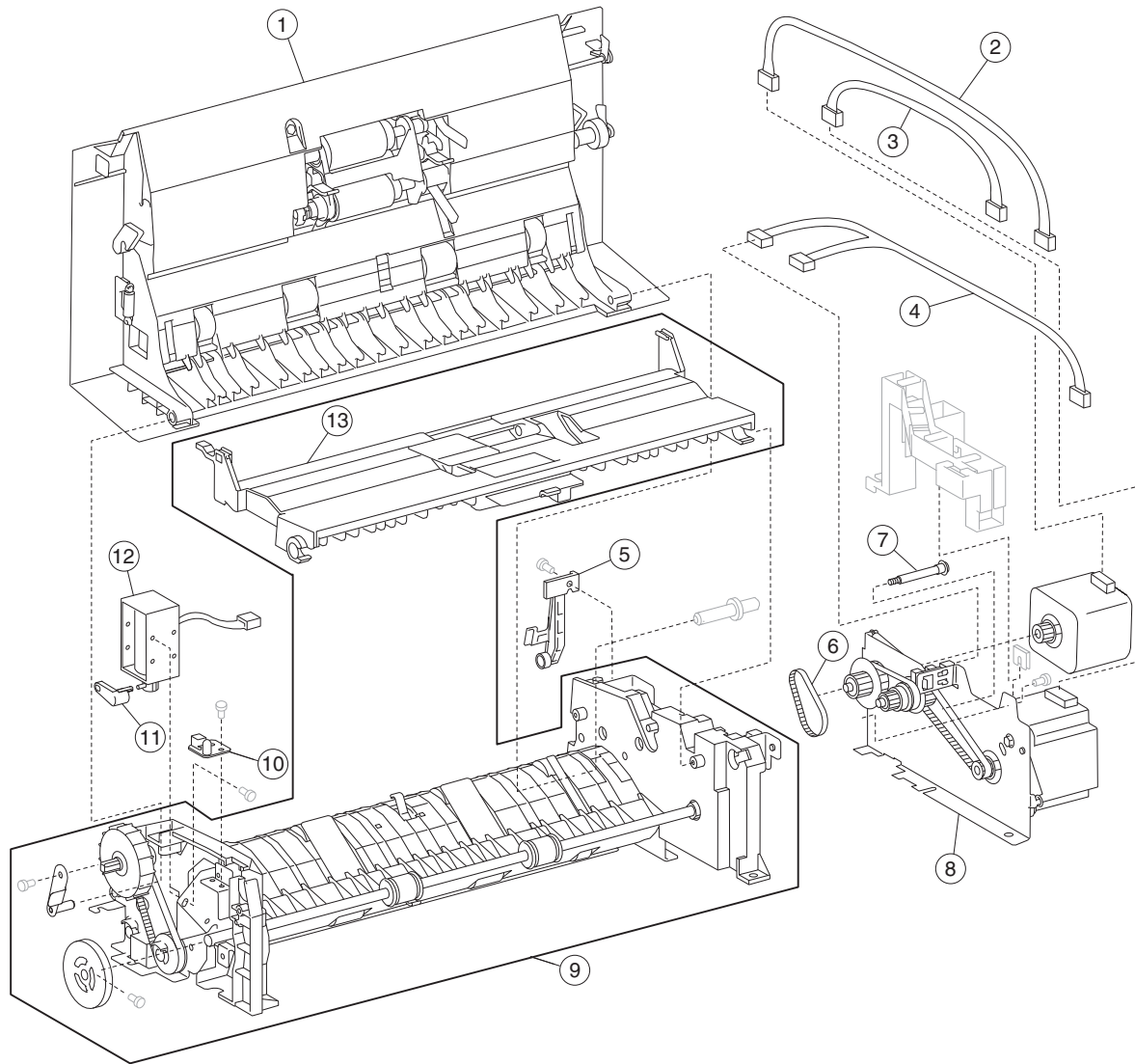


Next



Go Back

Assembly 25: ADF feeder



Previous



Next



Go Back

Assembly 25: ADF feeder

Asm Index	Part number	Units/mach	Units/kit or pkg	Description
25-1	40X2262	1	1	ADF left cover assembly (this comes assembled)
2	40X2265	1	1	Registration motor cable assembly
3	40X2266	1	1	ADF feed motor cable assembly
4	40X2264	1	1	Document set/sheet through cable assembly
5	40X2267	1	1	Left cover hinge retainer
6	40X2270	1	1	Registration main drive belt
7	40X2269	1	1	Stud screw
8	40X2327	1	1	ADF feed motor assembly (this comes assembled)
9	40X2383	1	1	ADF main feed assembly (this comes assembled)
10	40X2272	1	1	Document set LED
11	40X2256	1	1	Inverter lever
12	40X2271	1	1	Inverter solenoid assembly
13	40X2273	1	1	Separation roll guide assembly (this comes assembled)

Previous

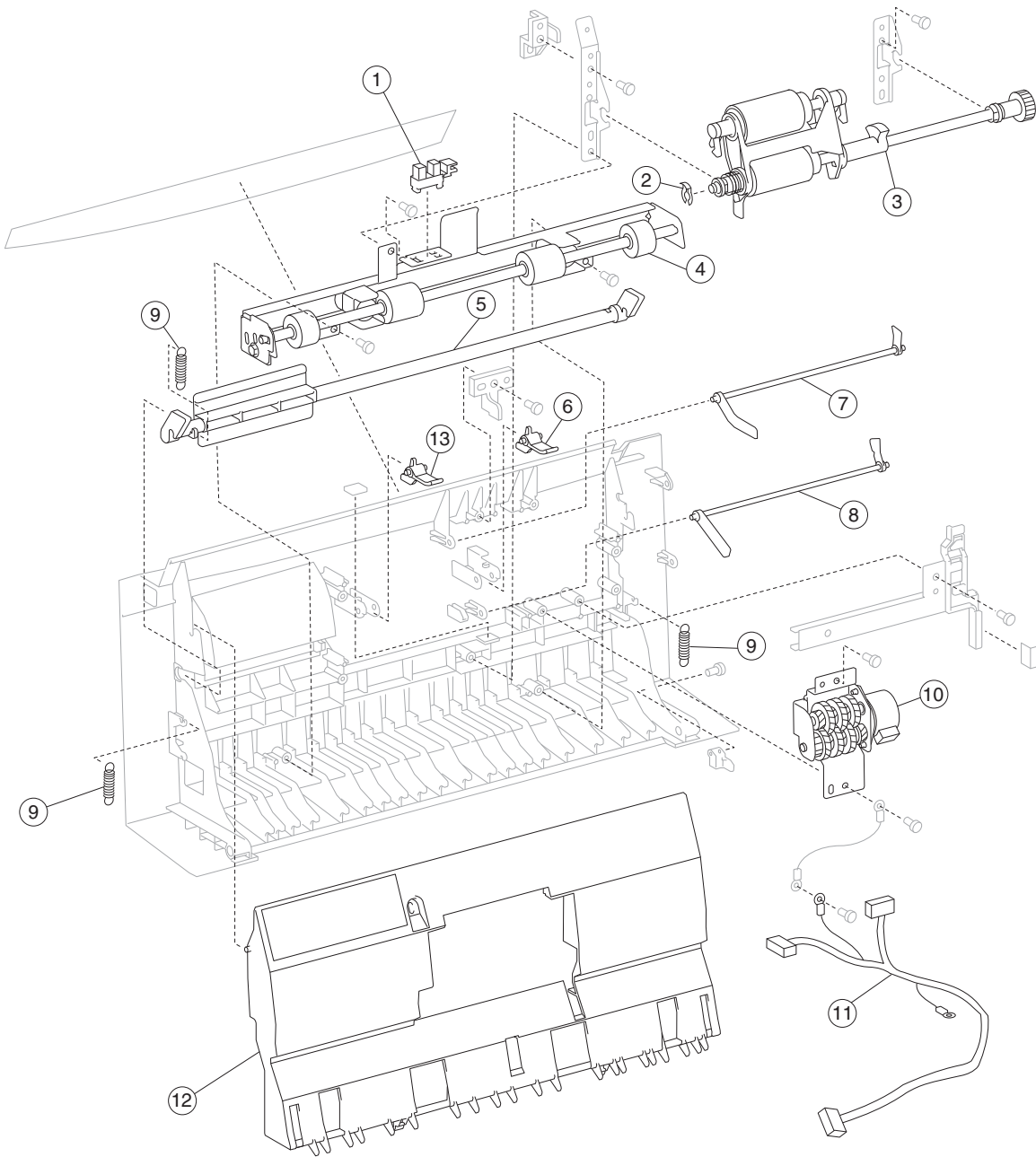


Next



Go Back

Assembly 26: ADF left cover components



Previous



Next



Go Back

Assembly 26: ADF left cover components

Asm Index	Part number	Units/mach	Units/kit or pkg	Description
26-1	40X3688	13	1	Sensor (pick roll position HP)
2	40X2291	3	4	Plastic ring clip 6 mm
3	40X2280	1	1	ADF feed/pick roll assembly (this comes assembled)
4	40X2276	1	1	Left cover pinch roll assembly (this comes assembled)
5	40X2274	1	1	ADF left cover handle
6	40X2381	1	1	Document set rear stop
7	40X2283	1	1	Document set actuator
8	40X2275	1	1	Sheet through actuator
9	40X2330	5	1	Spring
10	40X2277	1	1	Pick roll position motor assembly
11	40X2278	1	1	Pick roll position cable assembly
12	40X2321	1	1	Left cover media guide
13	40X2279	1	1	Document set front stop

Previous

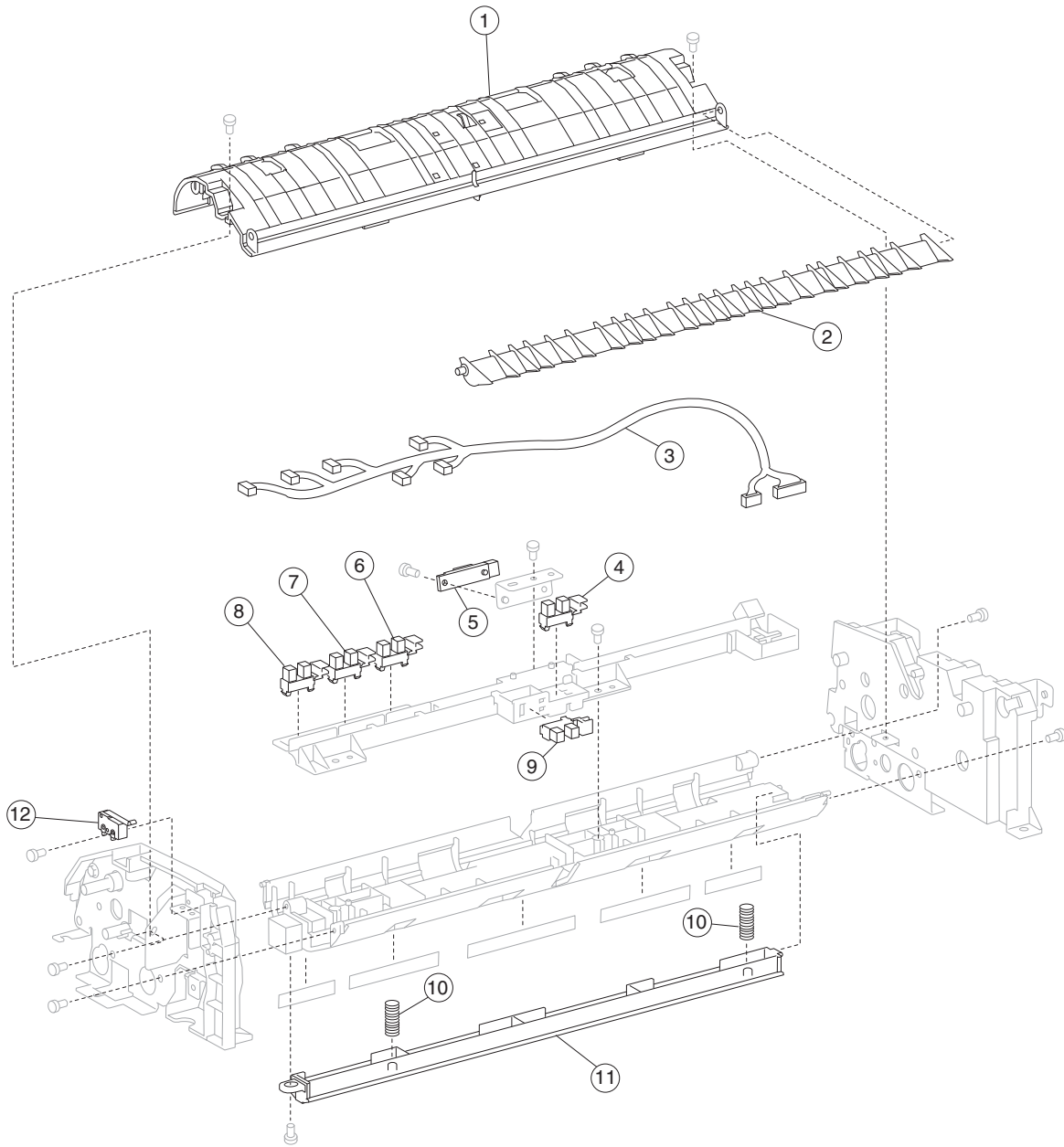


Next



Go Back

Assembly 27: ADF media guide



Previous



Next



Go Back

Assembly 27: ADF media guide

Asm Index	Part number	Units/mach	Units/kit or pkg	Description
27-1	40X2290	1	1	Actuator/media guide assembly (this comes assembled)
2	40X2289	1	1	Inverter gate
3	40X2288	1	1	ADF main feed cable assembly
4	40X3688	1	1	Sensor (ADF pre-registration)
5	40X0589	1	1	Sensor (ADF registration)
6	40X3688	13	1	Sensor (ADF width APS 1)
7	40X3688	13	1	Sensor (ADF width APS 2)
8	40X3688	13	1	Sensor (ADF width APS 3)
9	40X3688	13	1	Sensor (ADF inverter)
10	40X2324	2	1	Media scan guide spring
11	40X2323	1	1	Media scan guide
12	40X2286	1	1	Switch (ADF left cover interlock)

Previous

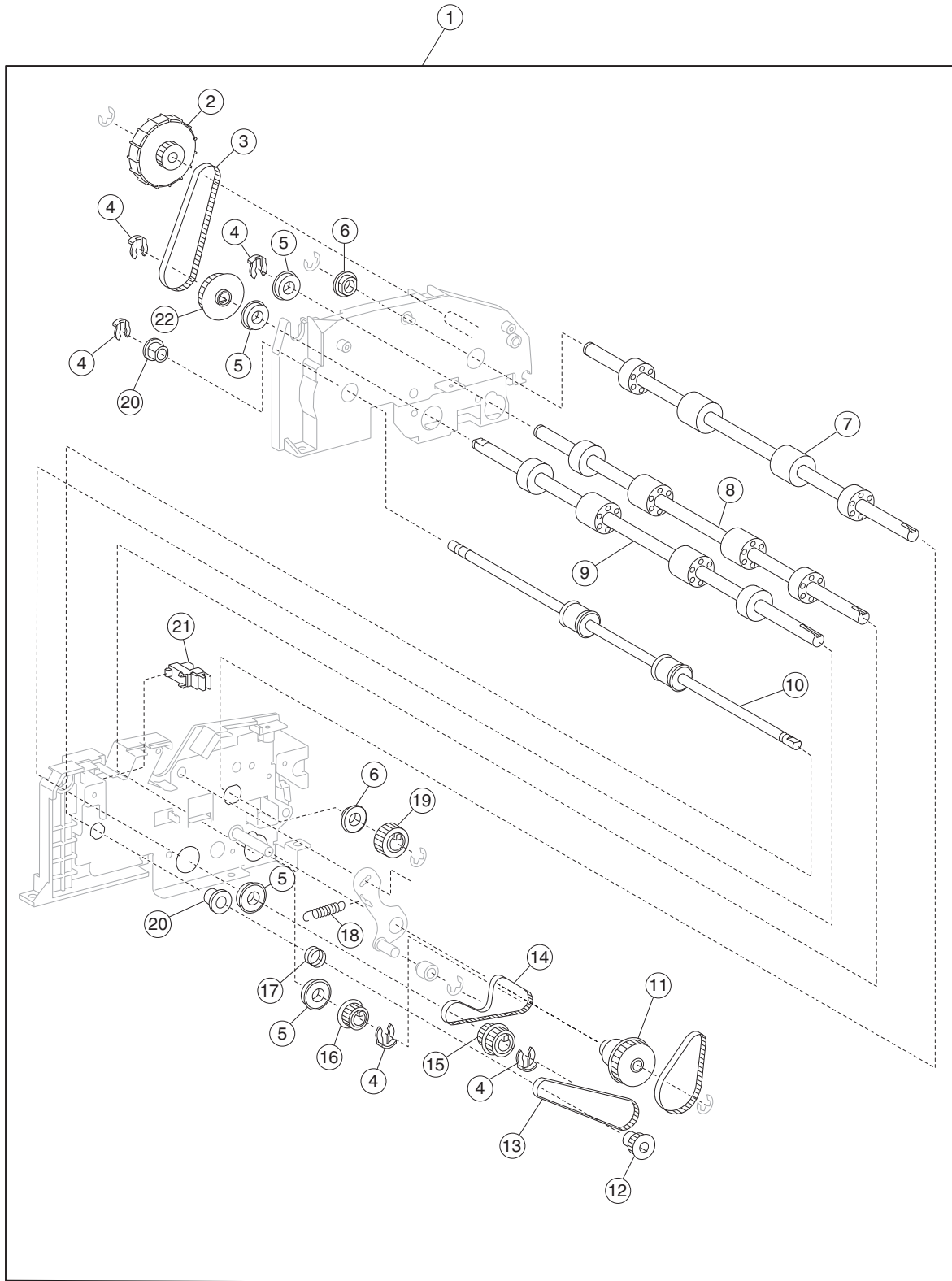


Next



Go Back

Assembly 28: ADF feeder roll



Previous



Next



Go Back

Assembly 28: ADF feeder roll

Asm Index	Part number	Units/mach	Units/kit or pkg	Description
28-1	40X2383	1	1	ADF main feed assembly (this comes assembled)
2	40X2346	1	1	Manual feed drive wheel
3	40X2345	1	1	Manual feed drive belt
4	40X2291	3	4	Plastic ring clip kit includes: <ul style="list-style-type: none"> • Plastic ring clip 6 mm • Plastic ring clip 8 mm
5	40X2337	4	1	Bearing 8 mm
6	40X2339	2	1	Bushing 8 mm
7	40X2336	1	1	ADF transport roll assembly
8	40X2333	1	1	ADF registration roll assembly
9	40X2334	1	1	ADF feed-out roll assembly
10	40X2335	1	1	ADF exit roll assembly
11	40X2349	1	1	Registration main drive pulley 21/54T
12	40X2342	1	1	Exit roll drive pulley 20T
13	40X2347	1	1	Exit roll drive belt
14	40X2350	1	1	Registration secondary drive belt
15	40X2341	1	1	Exit/feed-out roll drive pulley 25/28T
16	40X2340	1	1	Registration roll drive pulley 28T
17	40X2351	1	1	Retainer spring
18	40X2348	1	1	Tension spring
19	40X2343	1	1	Transport roll drive gear 20T
20	40X2338	2	1	Bushing 6 mm
21	40X3688	13	1	Sensor (document set)
22	40X2344	1	1	Manual feed drive pulley

Previous



Next



Go Back

Assembly 29: ADF motor unit

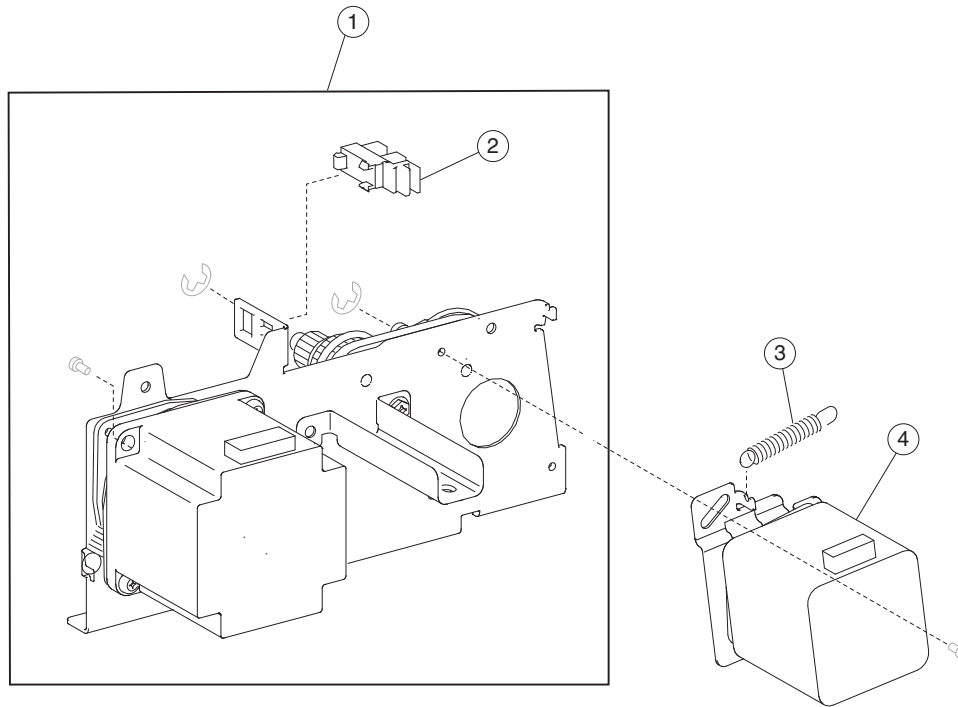
Previous



Next



Go Back



Assembly 29: ADF motor unit

Asm Index	Part number	Units/mach	Units/kit or pkg	Description
29-1	40X2327	1	1	ADF feed motor assembly (this comes assembled)
2	40X3688	13	1	Sensor (sheet through)
3	40X2326	1	1	Tension spring
4	40X2325	1	1	ADF registration motor

Previous

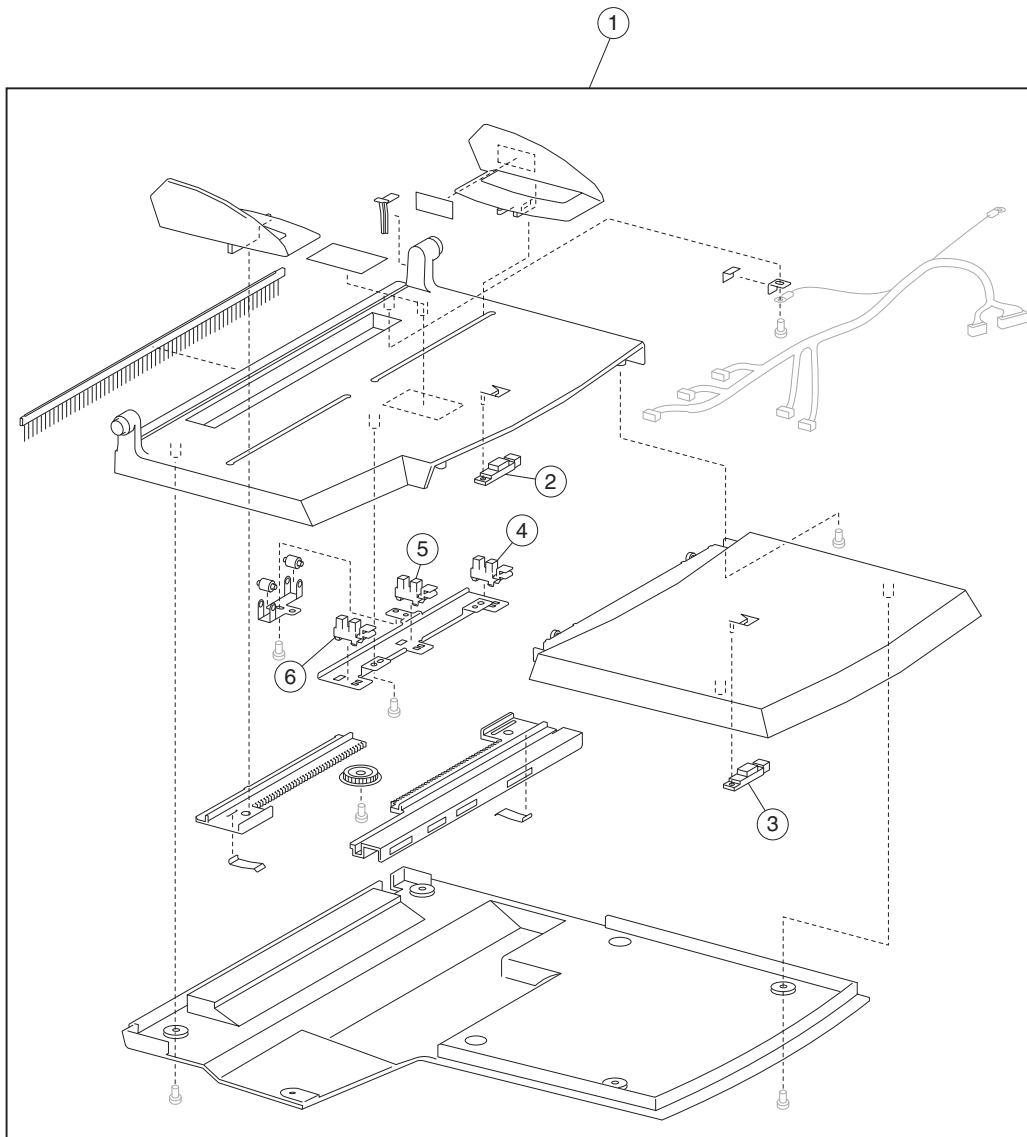


Next



Go Back

Assembly 30: ADF document tray



Previous



Next



Go Back

Assembly 30: ADF document tray

Asm Index	Part number	Units/mach	Units/kit or pkg	Description
30-1	40X2242	1	1	Document tray assembly (this comes assembled)
2	40X2328	1	1	Sensor (document tray length 1)
3	40X2328	1	1	Sensor (document tray length 2)
4	40X3688	1	1	Sensor (document tray width 1)
5	40X3688	1	1	Sensor (document tray width 2)
6	40X3688	1	1	Sensor (document tray width 3)

Note: Assembly index items 2, 3, 4, 5 and 6 are identical sensors with different functions; therefore, they are the same part number with different descriptions.

Previous

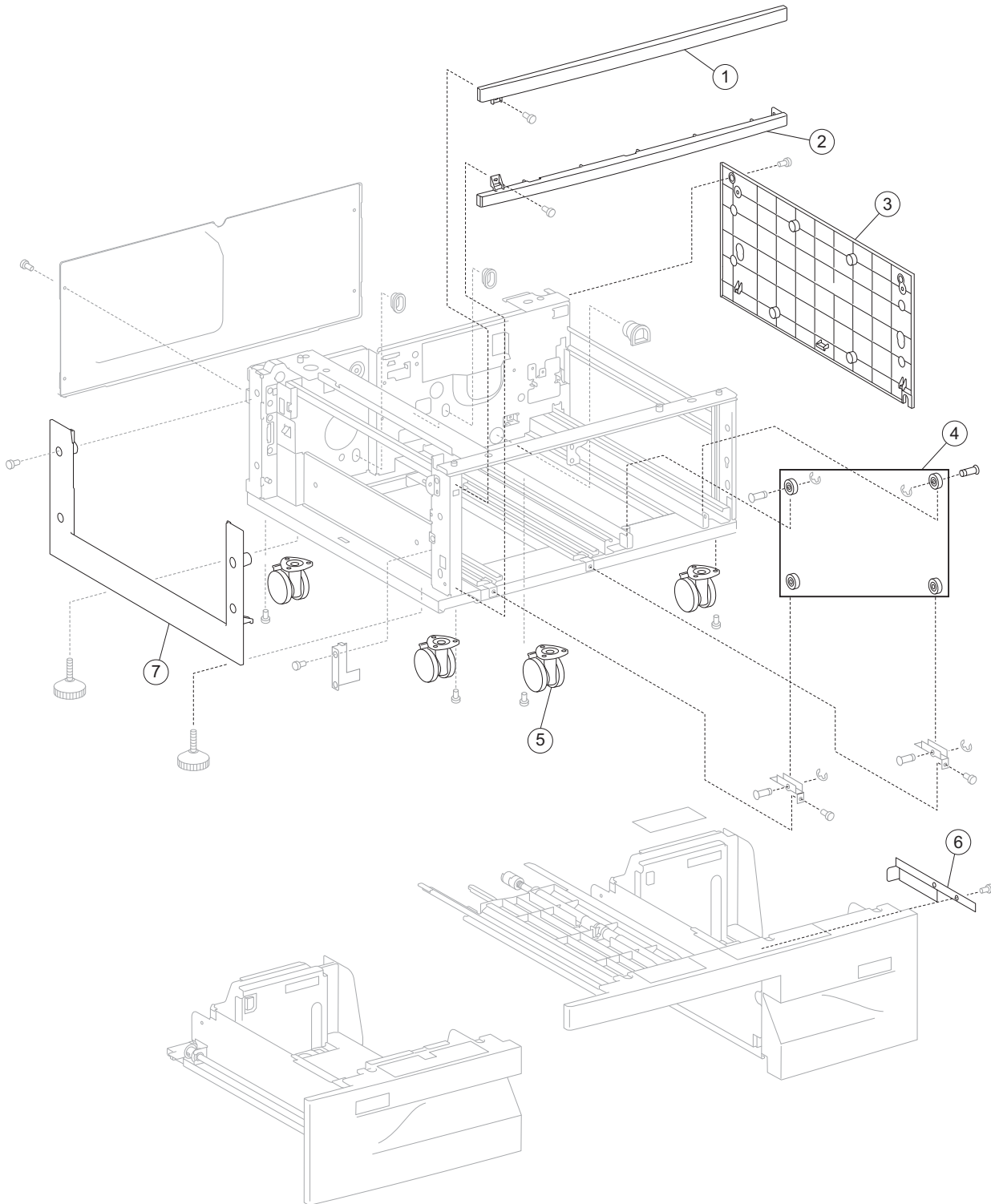


Next



Go Back

Assembly 31: 2000-sheet dual input (TTM)—covers



Previous



Next



Go Back

Assembly 31: 2000-sheet dual input (TTM)—covers

Asm-Index	Part number	Units/ option	Units/ FRU	Description
31—1	40X0687	1	1	Top cover
2	40X0688	1	1	Foot cover
3	40X0689	1	1	Right cover
4	40X0703	1	4	Tray support roll (4)
5	40X0691	4	1	Locking caster
6	40X0704	1	1	Tray 4 stopper
7	40X0690	1	1	Left cover

Previous

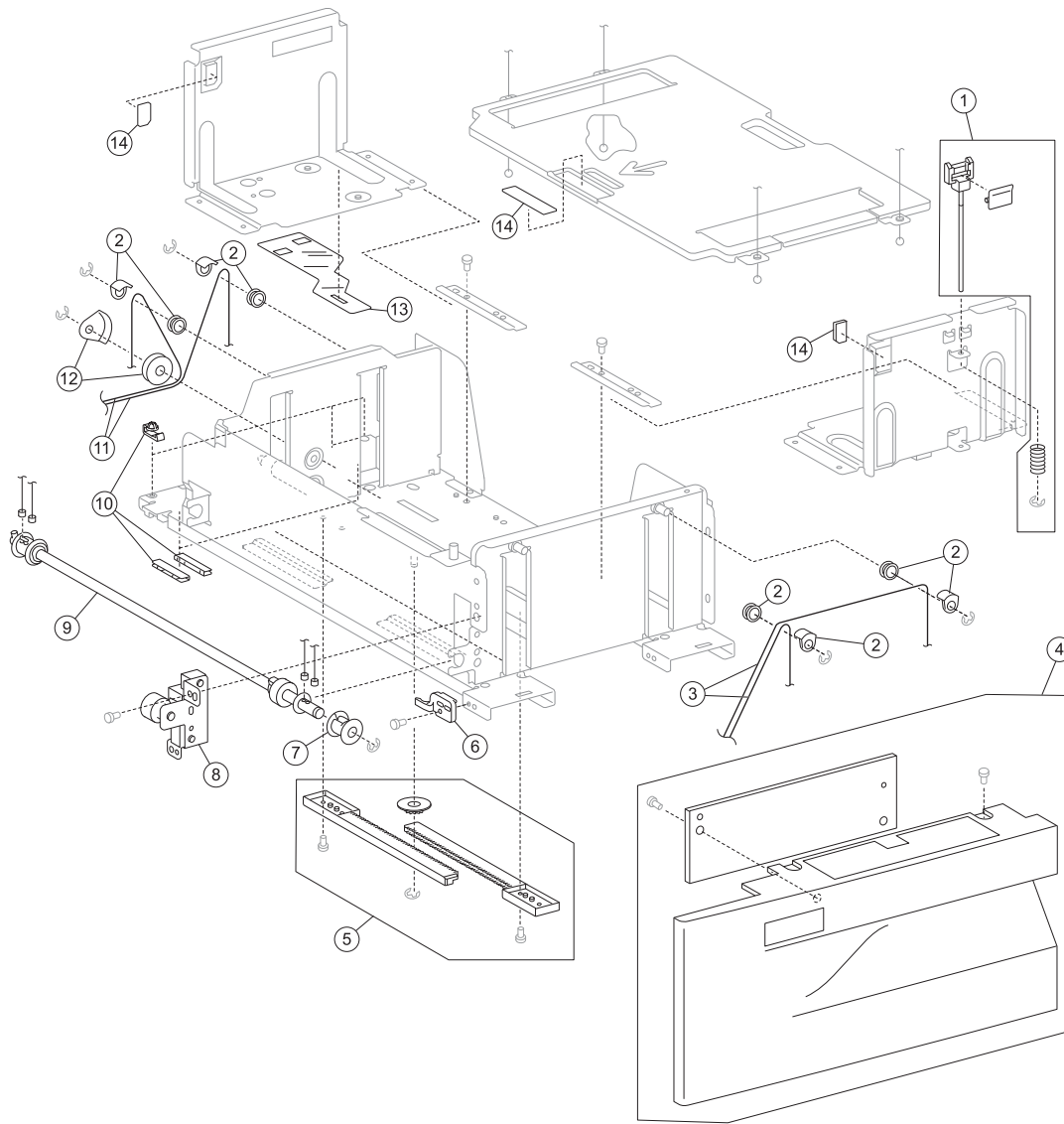


Next



Go Back

Assembly 32: 2000-sheet dual input (TTM)—tray 3



Previous



Next



Go Back

Assembly 32: 2000-sheet dual input (TTM)—tray 3

Asm-Index	Part number	Units/option	Units/FRU	Description
32—1	40X0712	1	3	Tray 3 media guide lock kit includes: <ul style="list-style-type: none"> • Tray 3 media guide lock button • Tray 3 media guide lock shaft • Spring
2	40X0953	2	8	TTM tray lift pulley kit includes: <ul style="list-style-type: none"> • TTM tray lift pulley (4) • Pulley guide (4)
3	40X0710	1	2	Tray 3 front cable (2)
4	40X0705	1	2	Tray 3 front cover kit includes: <ul style="list-style-type: none"> • Tray 3 front cover • Tray 3 tray handle
5	40X0713	2	4	Media guide rack and pinion kit includes: <ul style="list-style-type: none"> • Media guide rack gear (2) • Media guide pinion gear
6	40X0714	2	1	TTM media tray catch
7	40X0706	2	1	Lift cable pulley
8	40X0715	1	1	Tray 3 brake assembly
9	40X0707	2	1	Tray lift shaft assembly
10	40X0716	1	4	Tray 3 slide kit includes: <ul style="list-style-type: none"> • Tray 3 slide strip (2) • Tray 3 slide button (2)
11	40X0709	1	2	Tray 3 rear cable (2)
12	40X0708	2	2	Large idler pulley kit includes: <ul style="list-style-type: none"> • Large idler pulley • Large idler guide
13	40X0717	2	1	Mylar actuator
14	40X0711	2	3	TTM tray separator kit includes: <ul style="list-style-type: none"> • TTM tray separation pad • TTM tray brush (2)

Previous

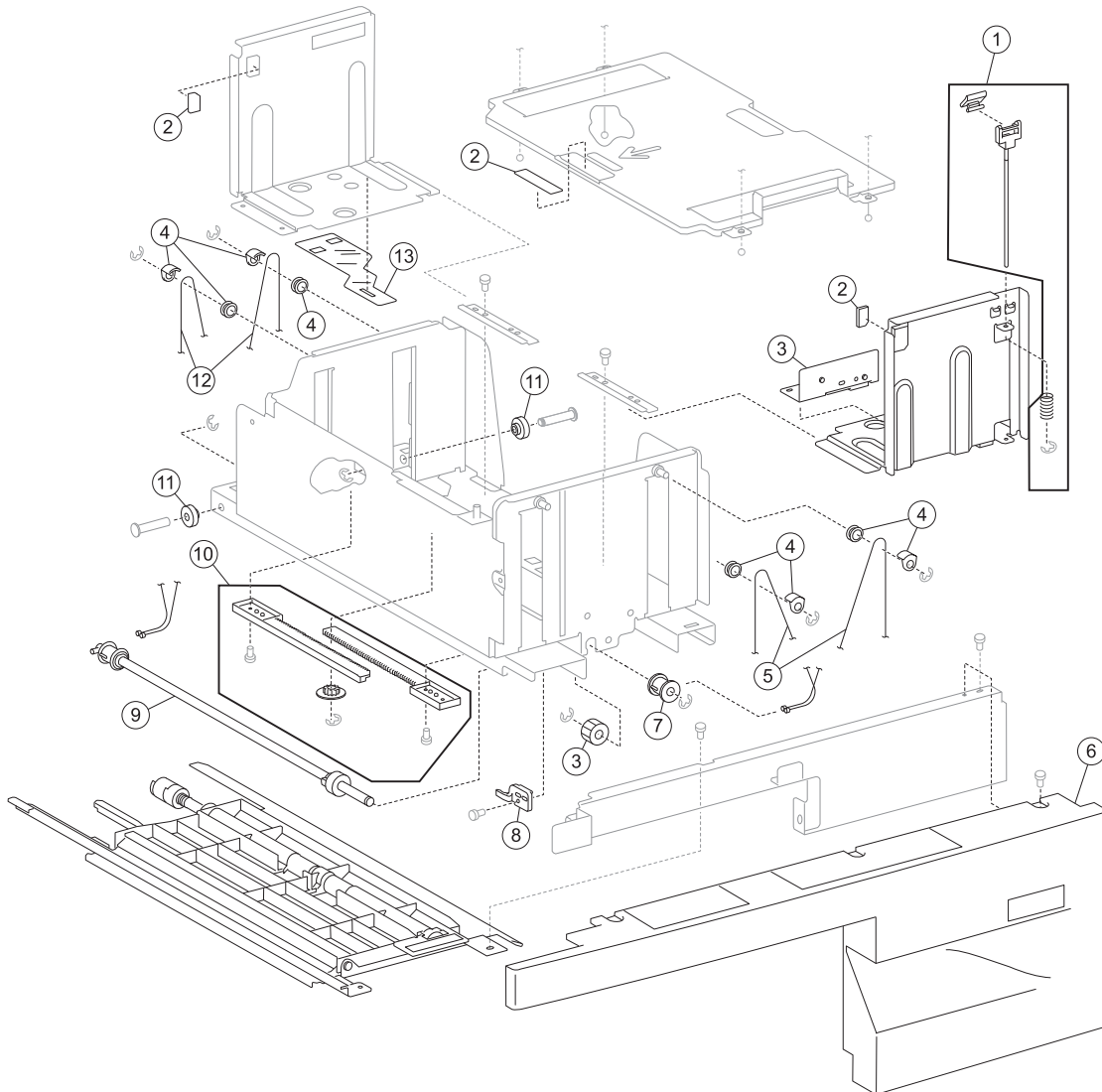


Next



Go Back

Assembly 33: 2000-sheet dual input (TTM)—tray 4



Previous



Next



Go Back

Assembly 33: 2000-sheet dual input (TTM)—tray 4

Asm-Index	Part number	Units/option	Units/FRU	Description
33—1	40X0721	1	3	Tray 4 media guide lock kit includes: <ul style="list-style-type: none"> • Tray 4 media guide lock button • Tray 4 media guide lock shaft • Spring
2	40X0711	2	3	TTM tray separator kit includes: <ul style="list-style-type: none"> • TTM tray separation pad • TTM tray brush (2)
3	40X0722	1	2	Tray 4 brake kit includes: <ul style="list-style-type: none"> • Tray 4 brake assembly • Tray 4 brake gear 18T
4	40X0953	2	8	TTM tray lift pulley kit includes: <ul style="list-style-type: none"> • TTM tray lift pulley (4) • Pulley guide (4)
5	40X0720	1	2	Tray 4 front cable (2)
6	40X0718	1	1	Tray 4 front cover
7	40X0706	2	1	Lift cable pulley
8	40X0714	2	1	TTM media tray catch
9	40X0707	2	1	Tray lift shaft assembly
10	40X0713	2	4	Media guide rack and pinion kit includes: <ul style="list-style-type: none"> • Media guide rack gear (2) • Media guide pinion gear
11	40X0723	1	2	Tray 4 rear support roll (2)
12	40X0719	1	2	Tray 4 rear cable (2)
13	40X0717	2	1	Mylar actuator

Previous



Next



Go Back

Assembly 34: 2000-sheet dual input (TTM)—feed and transport

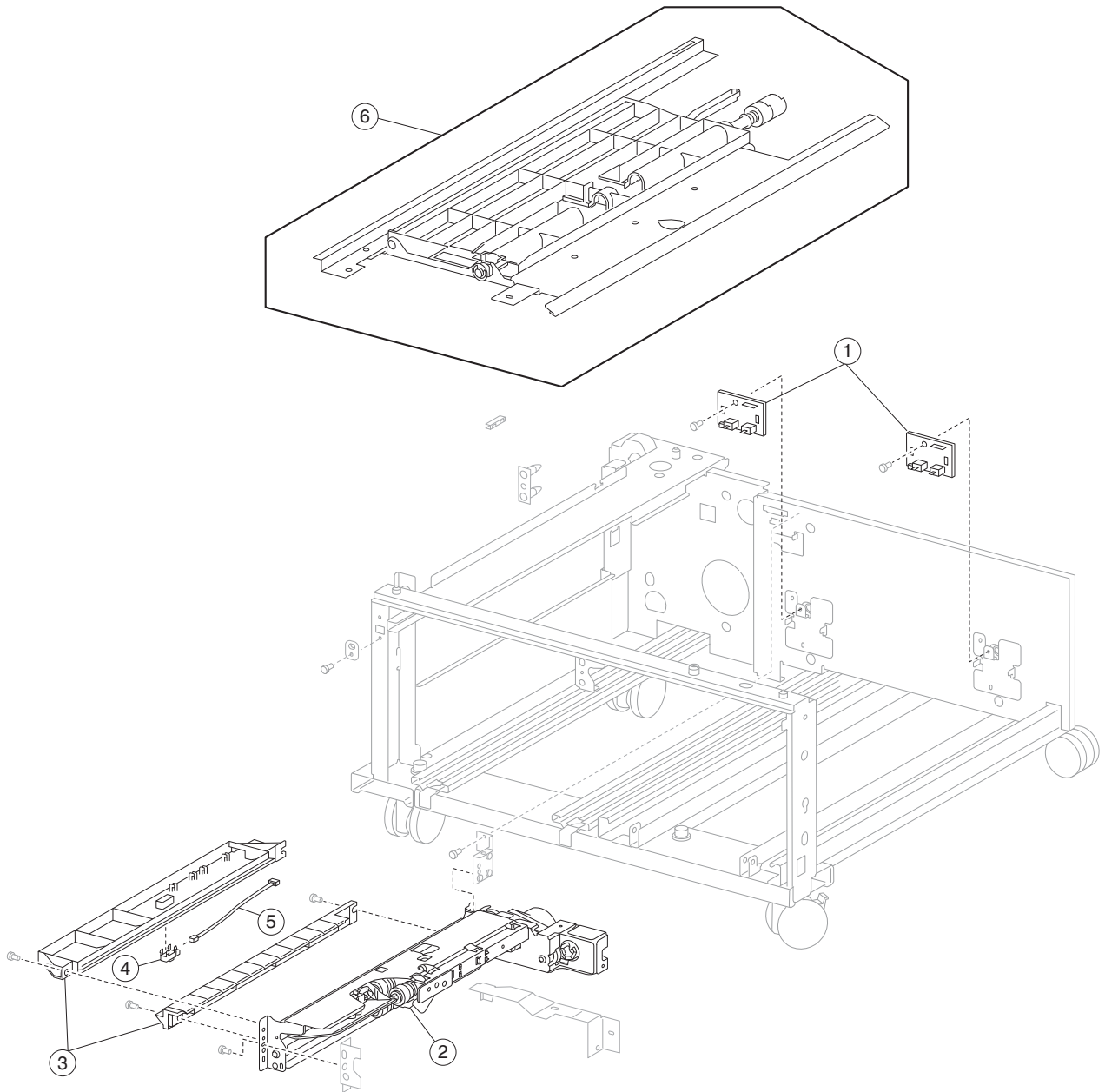
Previous



Next



Go Back



Assembly 34: 2000-sheet dual input (TTM)—feed and transport

Asm-Index	Part number	Units/ option	Units/ FRU	Description
34-1	40X0729	2	1	Switch (TTM media size switch)
2	40X0581	2	1	Media feed unit assembly (this comes assembled)
3	40X0728	1	2	Tray 4 media guide kit includes: <ul style="list-style-type: none"> • Tray 4 upper media guide • Tray 4 lower media guide
4	40X0727	1	1	Sensor (tray 4 feed-out)
5	40X0730	1	1	Tray 4 feed-out sensor cable assembly
6	40X0724	1	1	Tray 4 media transport assembly

Previous

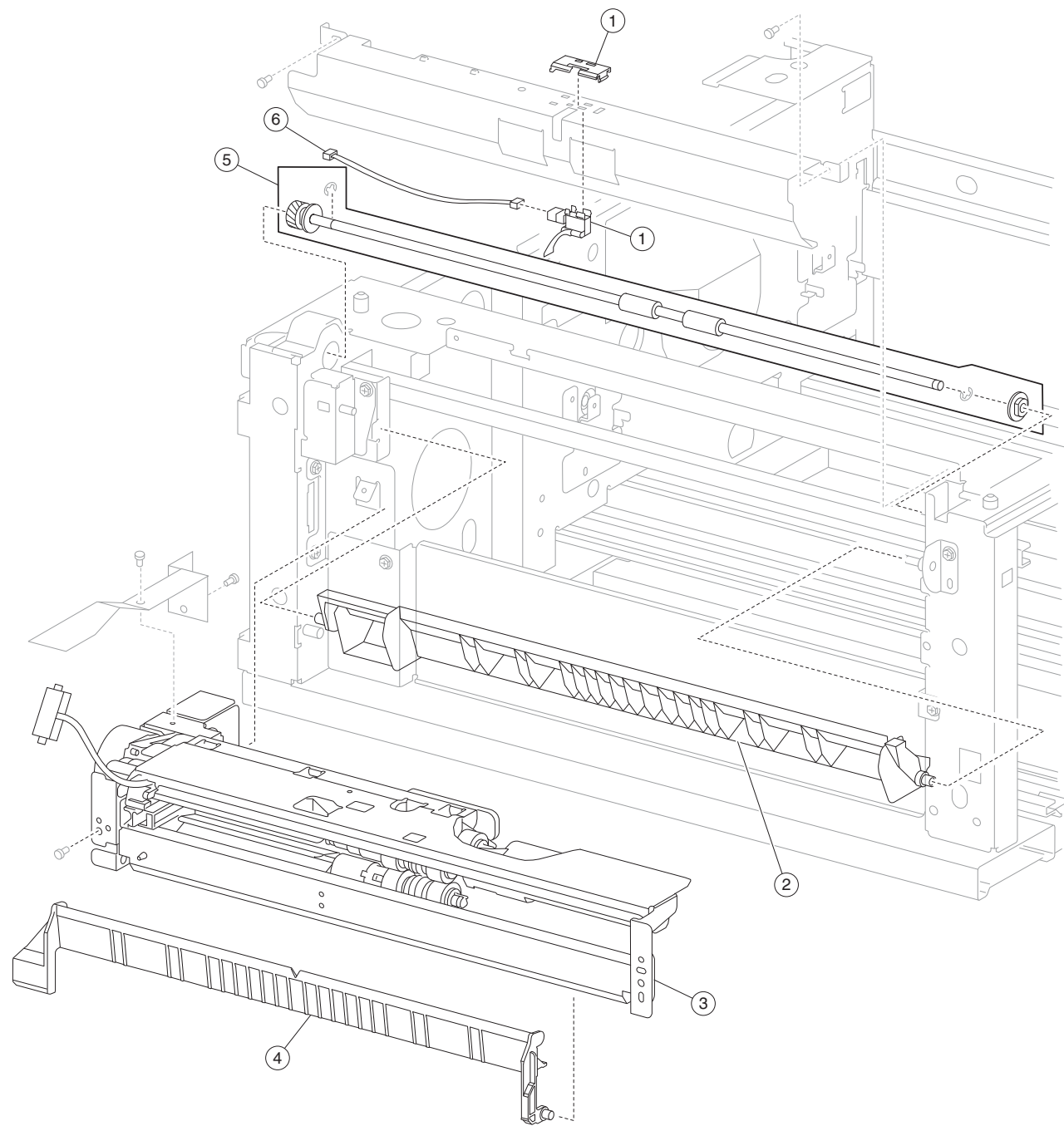


Next



Go Back

Assembly 35: 2000-sheet dual input (TTM)—feed and transport



Previous



Next



Go Back

Assembly 35: 2000-sheet dual input (TTM)—feed and transport

Asm-Index	Part number	Units/option	Units/FRU	Description
35-1	40X0692	1	2	Sensor (tray 3 feed-out) kit includes: <ul style="list-style-type: none"> • Sensor (tray 3 feed-out) • Sensor protector
2	40X0732	1	1	Upper vertical turn guide
3	40X0581	2	1	Media feed unit assembly (this comes assembled)
4	40X0572	1	1	Vertical turn guide
5	40X0695	1	2	2TM/TTM media transport roll assembly kit includes: <ul style="list-style-type: none"> • 2TM/TTM media transport roll assembly • Bushing 8 mm
6	40X0693	1	2	Sensor cable kit includes: <ul style="list-style-type: none"> • Tray 3 feed-out sensor cable • Tray 4 feed-out sensor cable

Previous

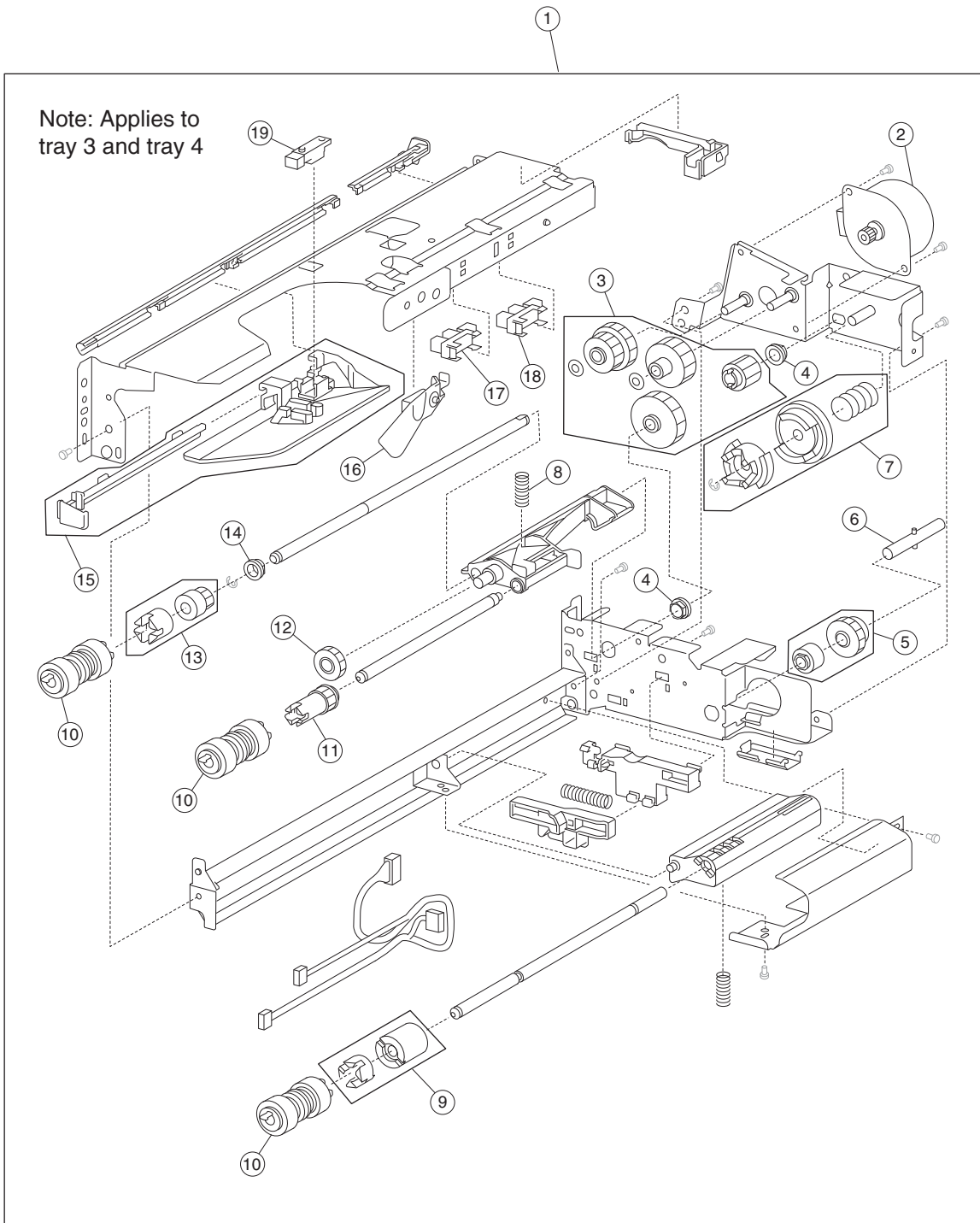


Next



Go Back

Assembly 36: 2000-sheet dual input (TTM)—media feed unit



Previous



Next



Go Back

Assembly 36: 2000-sheet dual input (TTM)—media feed unit

Asm-Index	Part number	Units/ option	Units/ FRU	Description
36-1	40X0581	2	1	Media feed unit assembly (this comes assembled)
2	40X0582	2	1	Media feed lift motor
3	40X0585	2	6	Media feed drive gear kit includes: <ul style="list-style-type: none"> • Media feed unit drive gear 13T • Media feed unit drive gear 28/21T • Media feed unit drive gear 29T • Media feed unit drive gear 27T • 2 mm washer (2 each) <p>Note: The graphic on the previous page, shows two #3 callouts. These callouts are the items that make up the media feed drive gear kit.</p>
4	40X0880	2	1	Bushing 6 mm
5	40X0967	2	2	Media tray lift one-way clutch/gear kit includes: <ul style="list-style-type: none"> • Media tray lift one-way clutch • Media tray lift one-way gear
6	40X0968	2	1	Media tray lift one-way shaft
7	40X0583	2	3	Tray lift coupling kit includes: <ul style="list-style-type: none"> • Tray lift coupling • Tray lift coupling gear 31T • Spring
8	40X0590	2	1	Pick roll assembly spring
9	40X0593	2	2	Separation roll friction clutch kit includes: <ul style="list-style-type: none"> • Separation roll one-way friction clutch • Separation roll spacer
10	40X0594	2	3	Feed unit roll kit includes: <ul style="list-style-type: none"> • Feed roll • Pick roll • Separation roll
11	40X0970	2	1	Pick roll drive gear
12	40X0969	2	1	Pick roll idler gear
13	40X0591	2	2	Feed roll one-way clutch kit includes: <ul style="list-style-type: none"> • Feed roll one-way clutch • Feed roll one-way gear 22T
14	40X0952	2	1	Bushing 6 mm
15	40X0586	2	2	Media feed unit front guide kit includes: <ul style="list-style-type: none"> • Media feed unit front guide • Media feed unit front guide rail
16	40X0587	2	1	Media out actuator
17	40X0588	2	1	Sensor (media out)
18	40X0588	2	1	Sensor (media level)
19	40X0589	2	1	Sensor (pre-feed)

Note: Assembly index items 17 and 18 are identical sensors with different functions; therefore, they are the same part number with different descriptions.

Previous

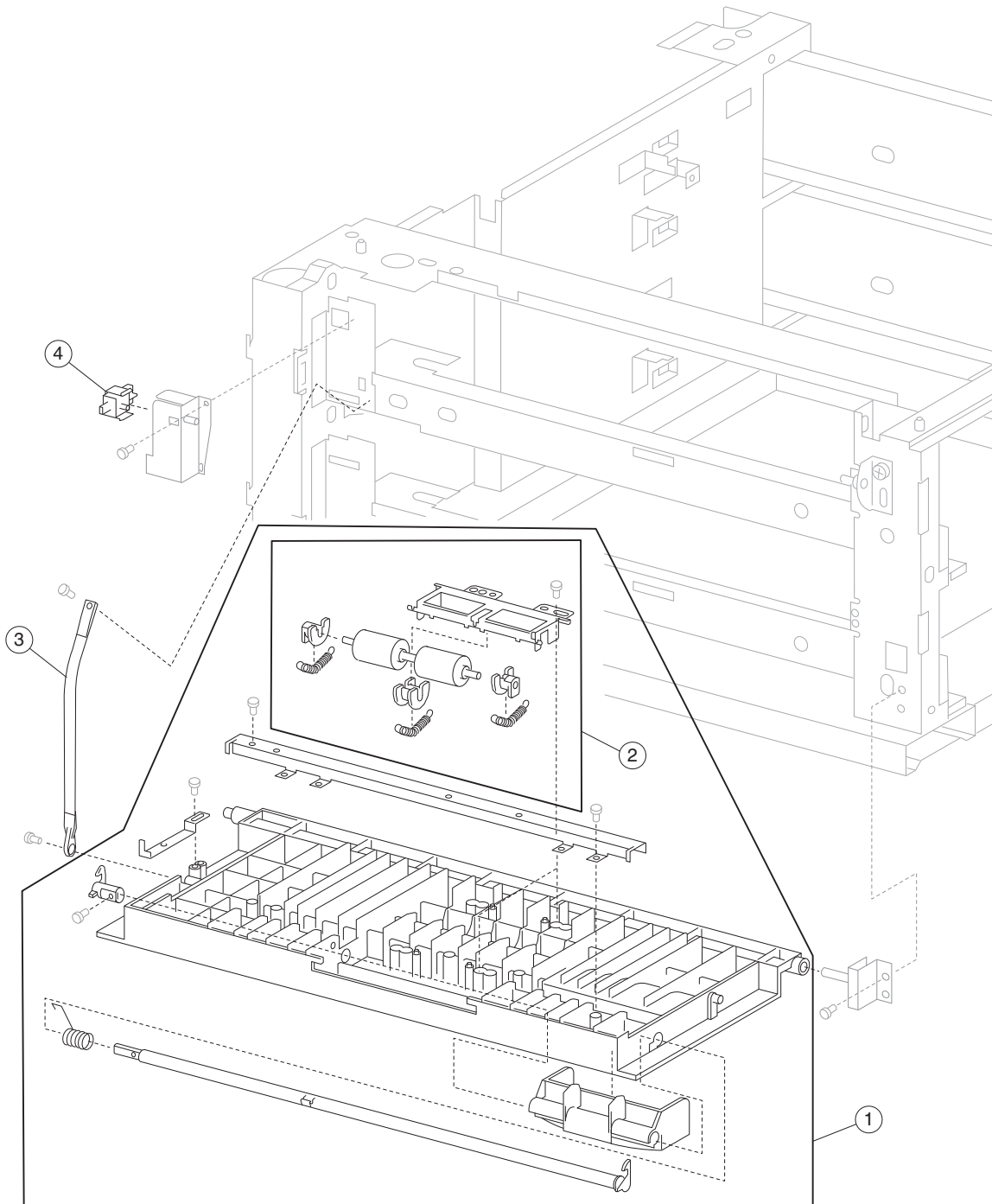


Next



Go Back

Assembly 37: 2000-sheet dual input (TTM)—left door



Previous



Next



Go Back

Assembly 37: 2000-sheet dual input (TTM)—left door

Asm-Index	Part number	Units/ option	Units/ FRU	Description
37-1	40X0733	1	1	2TM/TTM left door assembly (this comes assembled)
2	40X0696	1	1	2TM/TTM left door pinch assembly (this comes assembled)
3	40X0697	1	1	2TM/TTM left door support strap
4	40X0610	1	1	Switch (2TM/TTM left door interlock)

Previous

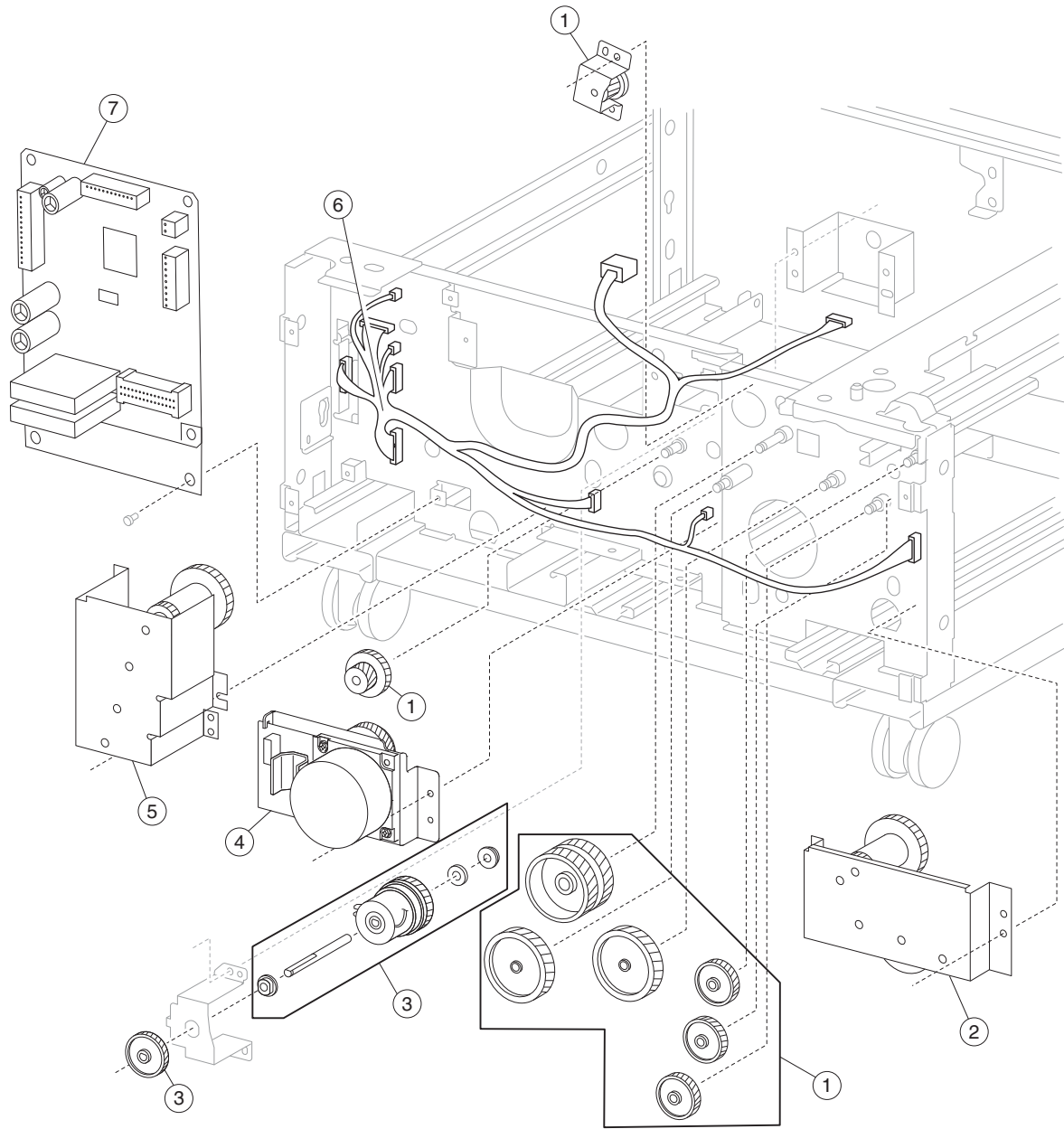


Next



Go Back

Assembly 38: 2000-sheet dual input (TTM)—drive and electrical



Previous



Next



Go Back

Assembly 38: 2000-sheet dual input (TTM)—drive and electrical

Asm-Index	Part number	Units/ option	Units/ FRU	Description
38-1	40X0736	1	8	TTM drive gear kit includes: <ul style="list-style-type: none"> • TTM drive gear 22/40T • TTM drive gear 37T (2 each) • TTM drive gear 32T • TTM drive gear 60T (2 each) • TTM drive gear 60T • TTM drive gear bracket assembly
2	40X0734	1	1	Tray 3 lift gear assembly
3	40X0699	1	6	2TM/TTM clutch kit includes: <ul style="list-style-type: none"> • 2TM/TTM clutch assembly • Shaft • Bushing 8 mm • Clutch gear 38T • Bushing 8 mm • Washer
4	40X3664	1	1	2TM/TTM drive motor
5	40X0735	1	1	Tray 4 lift gear assembly
6	40X3666	1	1	TTM main cable assembly
7	40X2735	1	1	2TM/TTM controller card assembly

Previous



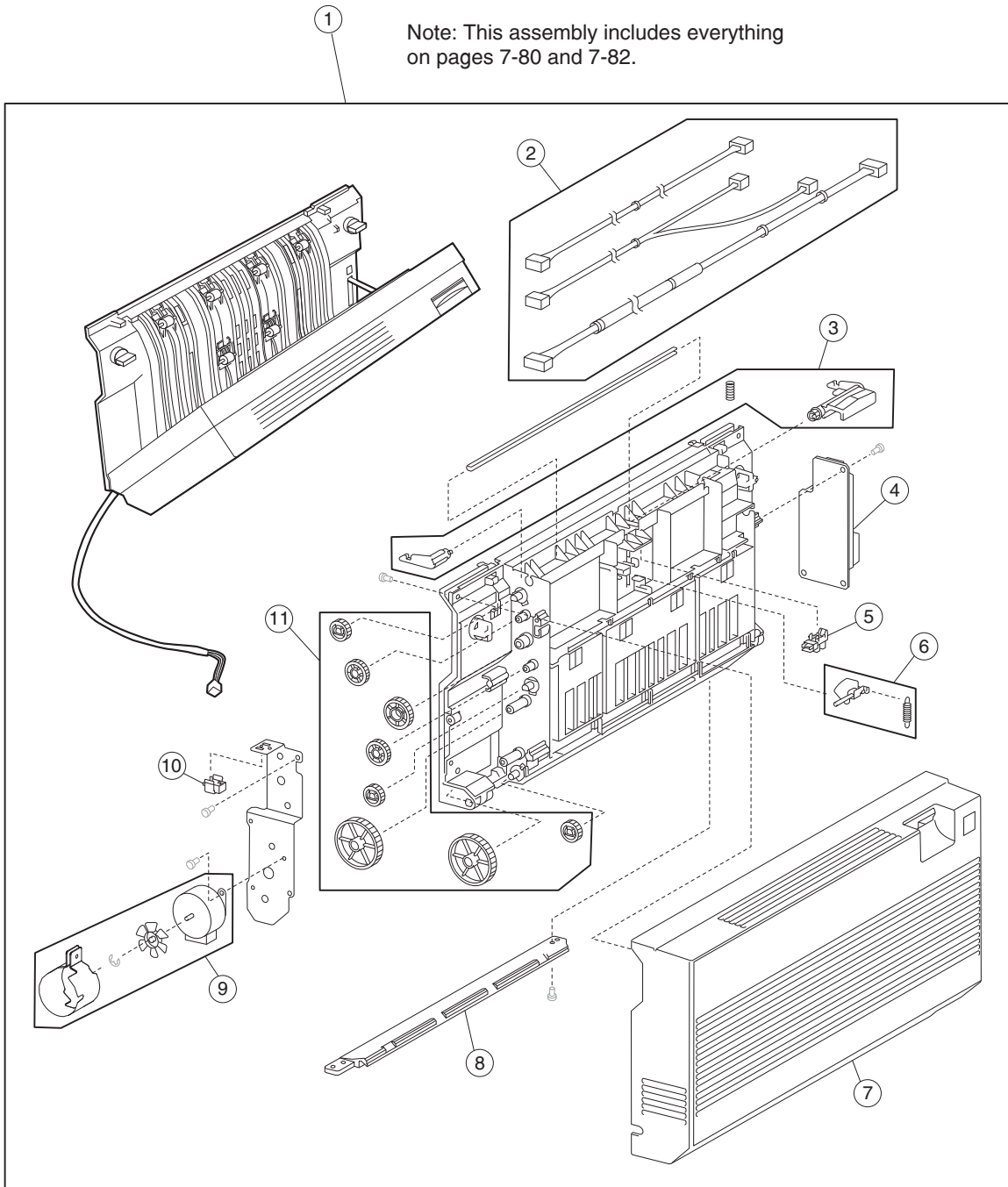
Next



Go Back

Assembly 39: Duplex outer

Note: This assembly includes everything on pages 7-80 and 7-82.



Previous



Next



Go Back

Assembly 39: Duplex outer

Asm-Index	Part number	Units/ option	Units/ FRU	Description
39-1	40X0780	1	1	Duplex unit assembly (this comes assembled)
2	40X0788	1	3	Duplex cable kit includes: <ul style="list-style-type: none"> • Duplex sensor cable assembly • Duplex motor cable assembly • Duplex main cable assembly
3	40X0782	1	3	Duplex left door handle kit includes: <ul style="list-style-type: none"> • Duplex left door handle latch • Duplex left door handle • Spring
4	40X0786	1	1	Duplex controller card assembly
5	40X0588	1	1	Sensor (duplex wait)
6	40X0784	1	2	Duplex wait actuator kit includes: <ul style="list-style-type: none"> • Duplex wait actuator • Spring
7	40X0787	1	1	Duplex left cover
8	40X0783	1	1	Duplex lower guide
9	40X0785	1	3	Duplex drive motor kit includes: <ul style="list-style-type: none"> • Duplex drive motor • Duplex drive motor cooling fan • Duplex drive motor cooling fan shroud
10	40X0610	1	1	Switch (duplex left door interlock)
11	40X0781	1	8	Duplex drive gear kit includes: <ul style="list-style-type: none"> • Duplex drive gear 28T (3 each) • Duplex drive gear 33/74T (2 each) • Duplex drive gear 33T (2 each) • Duplex drive gear 42T

Previous



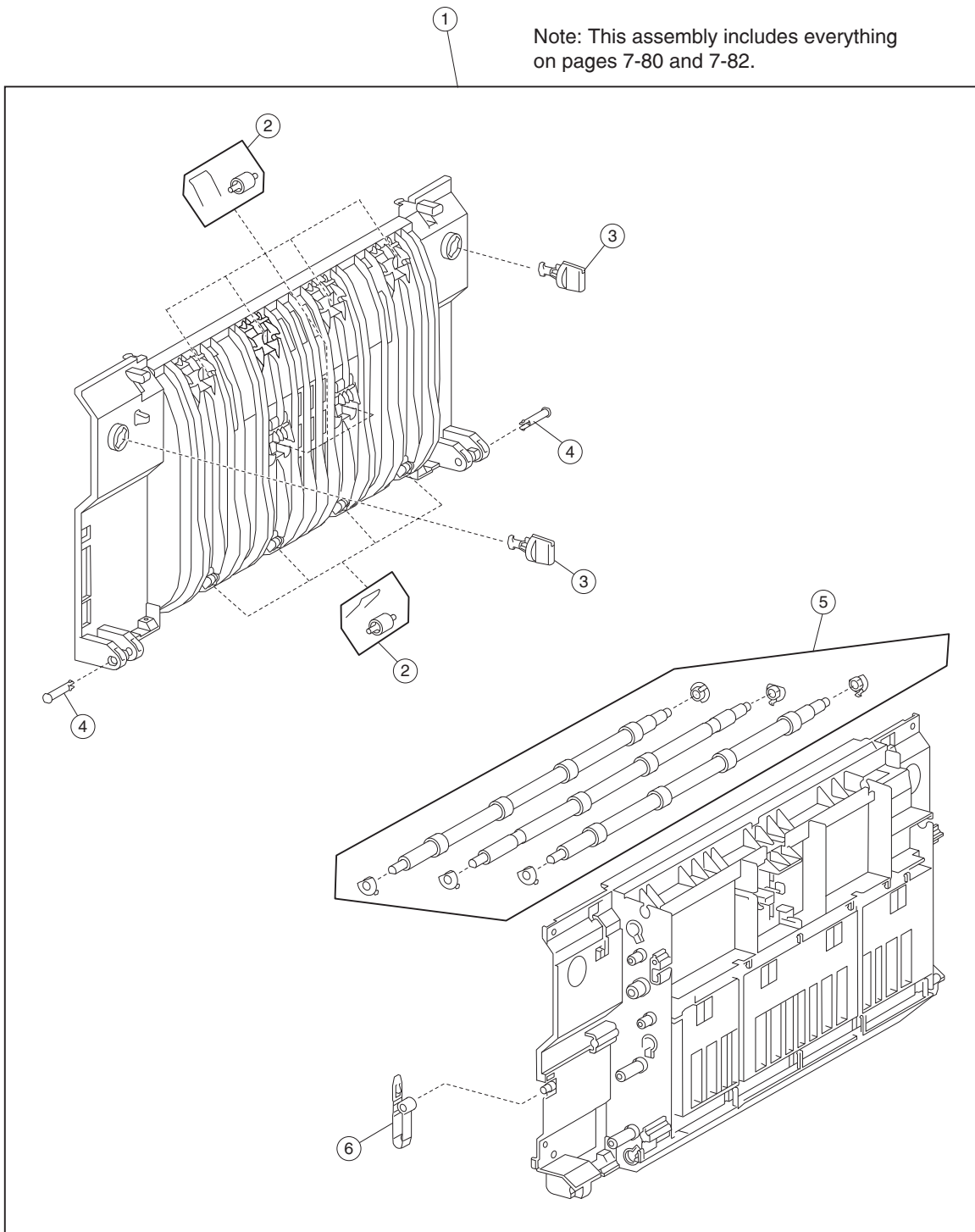
Next



Go Back

Assembly 40: Duplex inner

Note: This assembly includes everything on pages 7-80 and 7-82.



Previous



Next



Go Back

Assembly 40: Duplex inner

Asm-Index	Part number	Units/option	Units/FRU	Description
40-1	40X0780	1	1	Duplex unit assembly (this comes assembled)
2	40X0792	1	20	Duplex media transport pinch roll kit includes: <ul style="list-style-type: none"> • Duplex media transport pinch roll (10 each) • Spring (10 each)
3	40X0790	1	2	Duplex docking lock (2 each)
4	40X0791	1	2	Hinge pin (2 each)
5	40X0793	1	9	Duplex media transport roll kit includes: <ul style="list-style-type: none"> • Bushing 6 mm (6 each) • Duplex media transport roll (2 each) • Duplex media center transport roll
6	40X0789	1	1	Duplex left door support strap

Previous



Next



Go Back

Assembly 41: Exit 2 outer

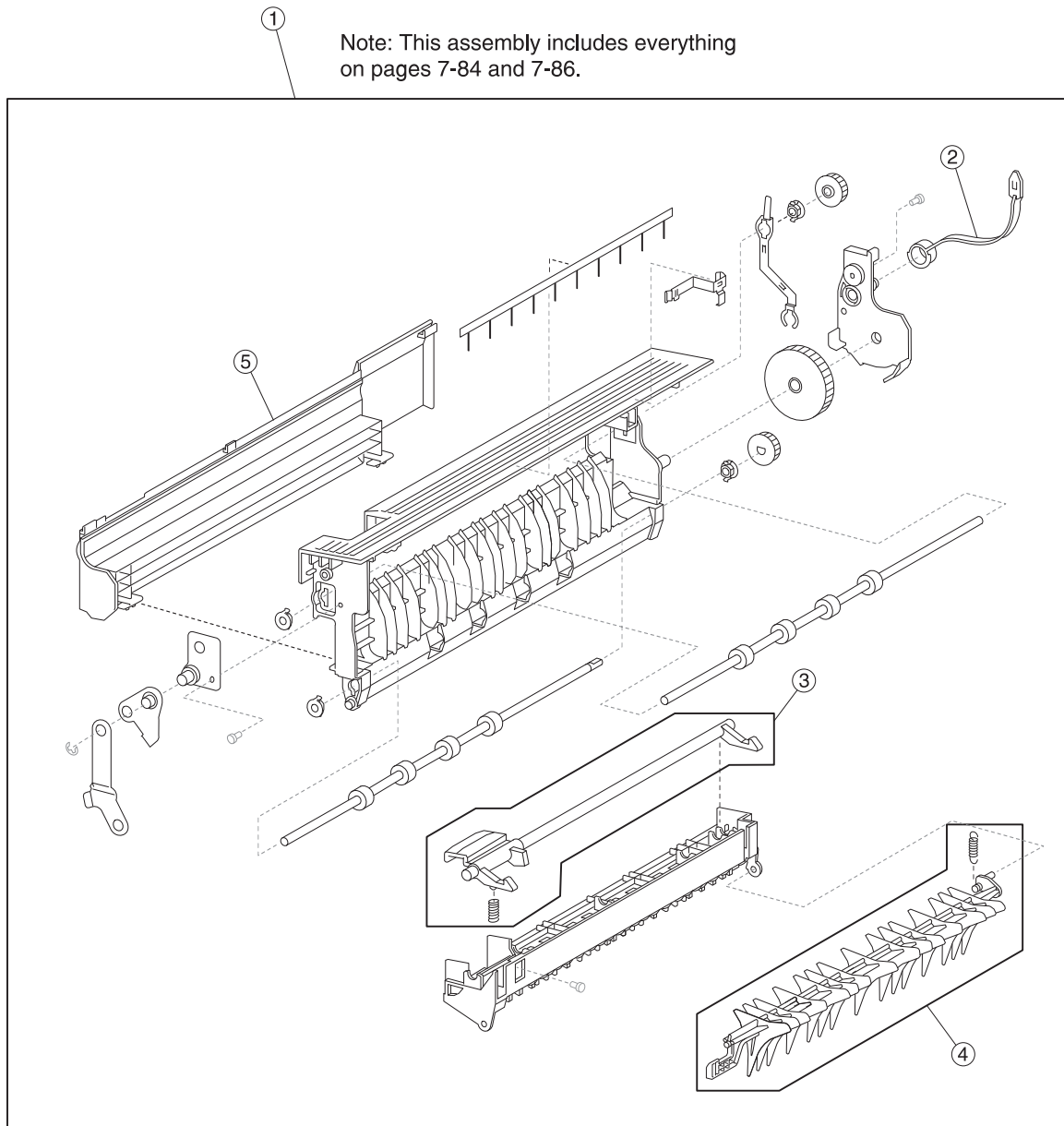
Previous



Next



Go Back



Assembly 41: Exit 2 outer

Asm-Index	Part number	Units/option	Units/FRU	Description
41-1	40X0794	1	1	Exit 2 unit assembly (this comes assembled)
2	40X0797	1	1	Exit 2 left door support strap
3	40X0795	1	2	Exit 2 left door handle kit includes: <ul style="list-style-type: none"> • Exit 2 left door handle • Spring
4	40X0796	1	2	Media diverter gate kit includes: <ul style="list-style-type: none"> • Media diverter gate • Spring
5	40X0798	1	1	Left cover

Previous



Next

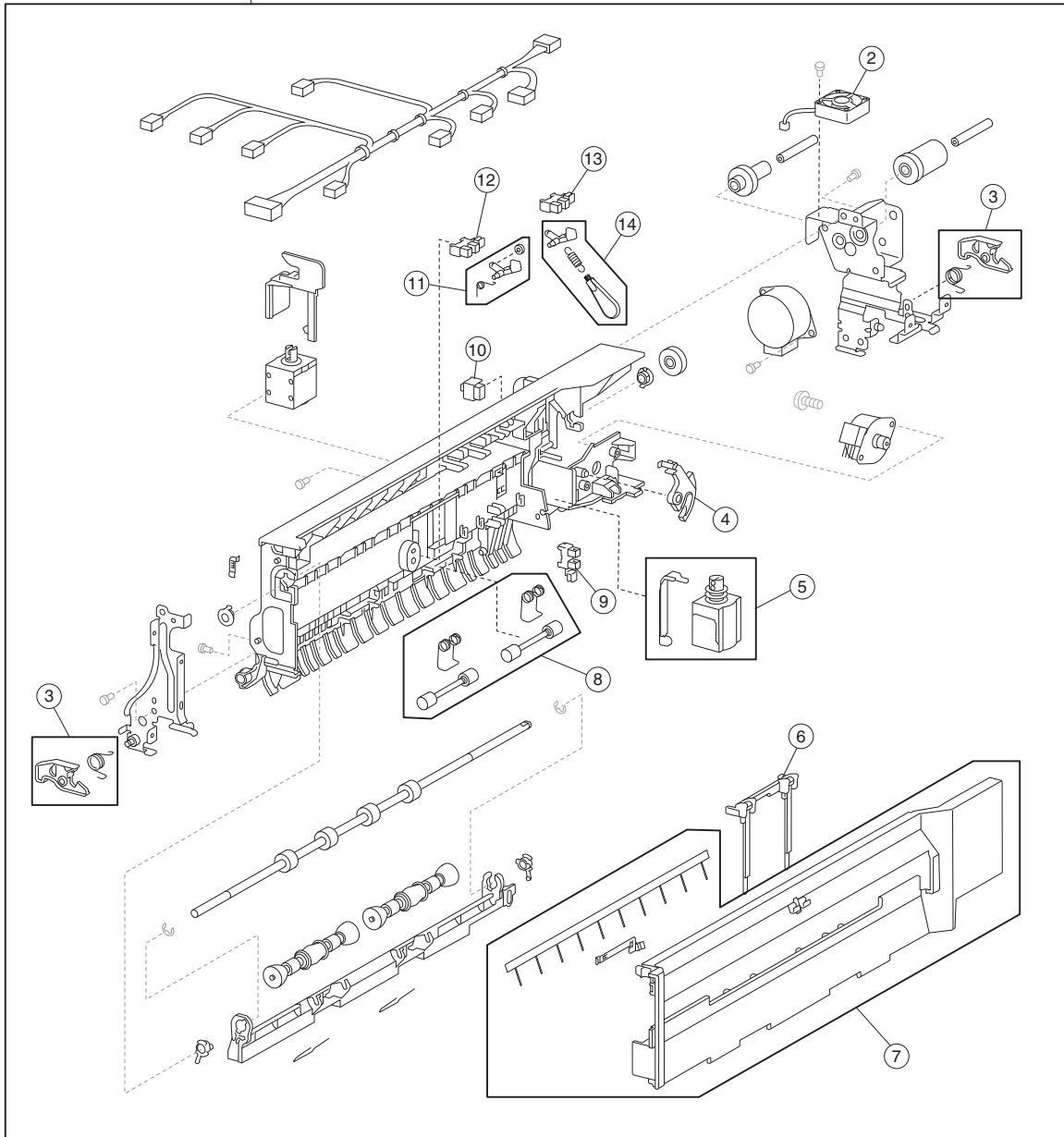


Go Back

Assembly 42: Exit 2 inner

1

Note: This assembly includes everything on pages 7-84 and 7-86.



Previous



Next



Go Back

Assembly 42: Exit 2 inner

Asm-Index	Part number	Units/option	Units/FRU	Description
42-1	40X0794	1	1	Exit 2 unit assembly (this comes assembled)
2	40X0807	1	1	Exit 2 cooling fan
3	40X0802	1	4	Exit 2 docking latch kit includes: <ul style="list-style-type: none"> • Docking latch (2 each) • Docking latch spring front • Docking latch spring rear
4	40X0803	1	1	Exit 2 media shift gear
5	40X0805	1	2	Media diverter solenoid kit includes: <ul style="list-style-type: none"> • Media diverter solenoid • Media diverter link
6	40X2389	1	3	Output guide
7	40X0801	1	3	Right cover kit includes: <ul style="list-style-type: none"> • Right cover • Right cover anti static brush • Right cover grounding plate
8	40X0806	1	4	Exit 2 pinch roll kit includes: <ul style="list-style-type: none"> • Spring (2 each) • Exit 2 pinch roll (2 each)
9	40X0588	1	1	Sensor (exit 2 media shift HP)
10	40X0610	1	1	Switch (exit 2 left door interlock)
11	40X0809	1	3	Exit 2 actuator kit includes: <ul style="list-style-type: none"> • Exit 2 actuator • Roller • Spring
12	40X0588	1	1	Sensor (exit 2)
13	40X0588	1	1	Sensor (standard bin full exit 2)
14	40X0808	1	3	Standard bin full exit 2 actuator kit includes: <ul style="list-style-type: none"> • Standard bin full exit 2 actuator inner • Standard bin full exit 2 actuator outer • Spring

Note: Assembly index items 12 and 13 are identical sensors with different functions; therefore, they are the same part number with different descriptions.

Previous



Next



Go Back

Assembly 43: Electrical cables

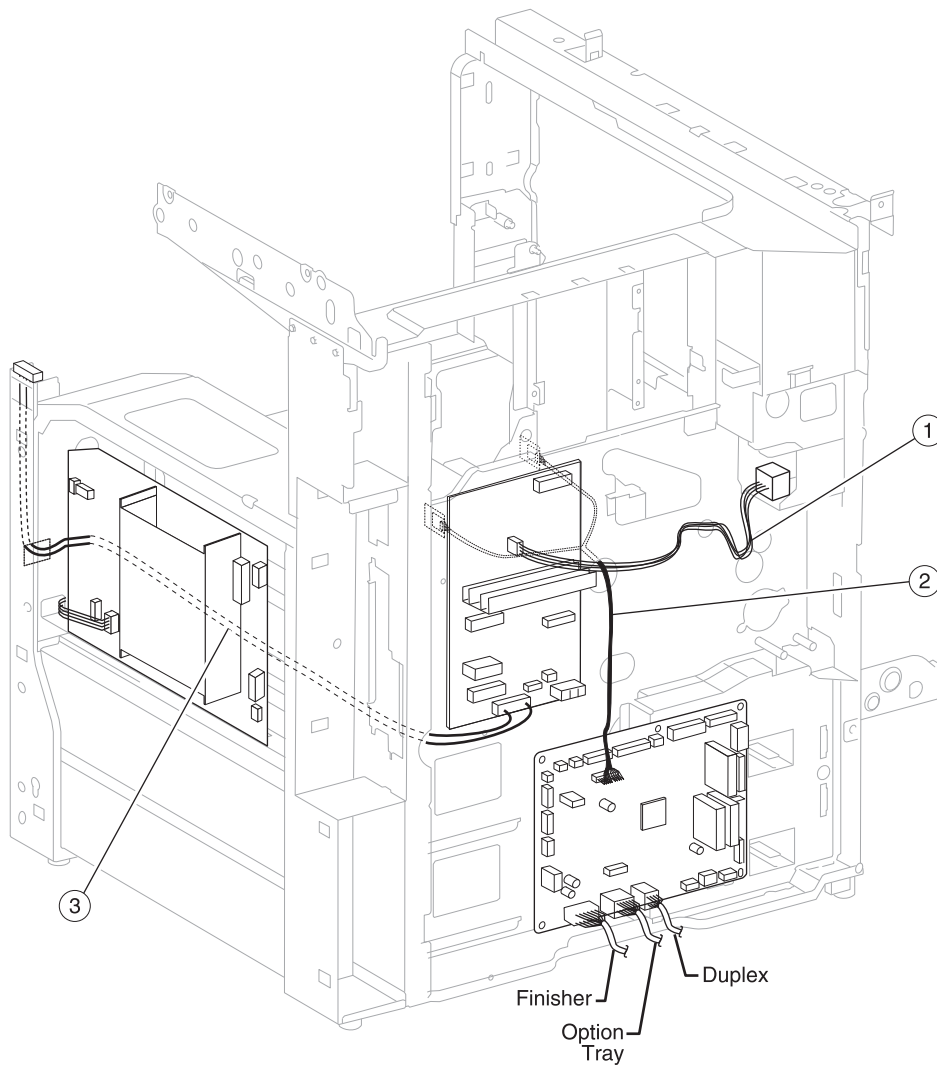
Previous



Next



Go Back



Asm Index	Part number	Units/mach	Units/kit or pkg	Description
43-1	40X2368	1	1	Fuser AC cable assembly
2	40X0686	1	1	RFID sensor cable assembly
3	40X2319	1	1	Main switch cable assembly

Assembly 44: Electrical cables

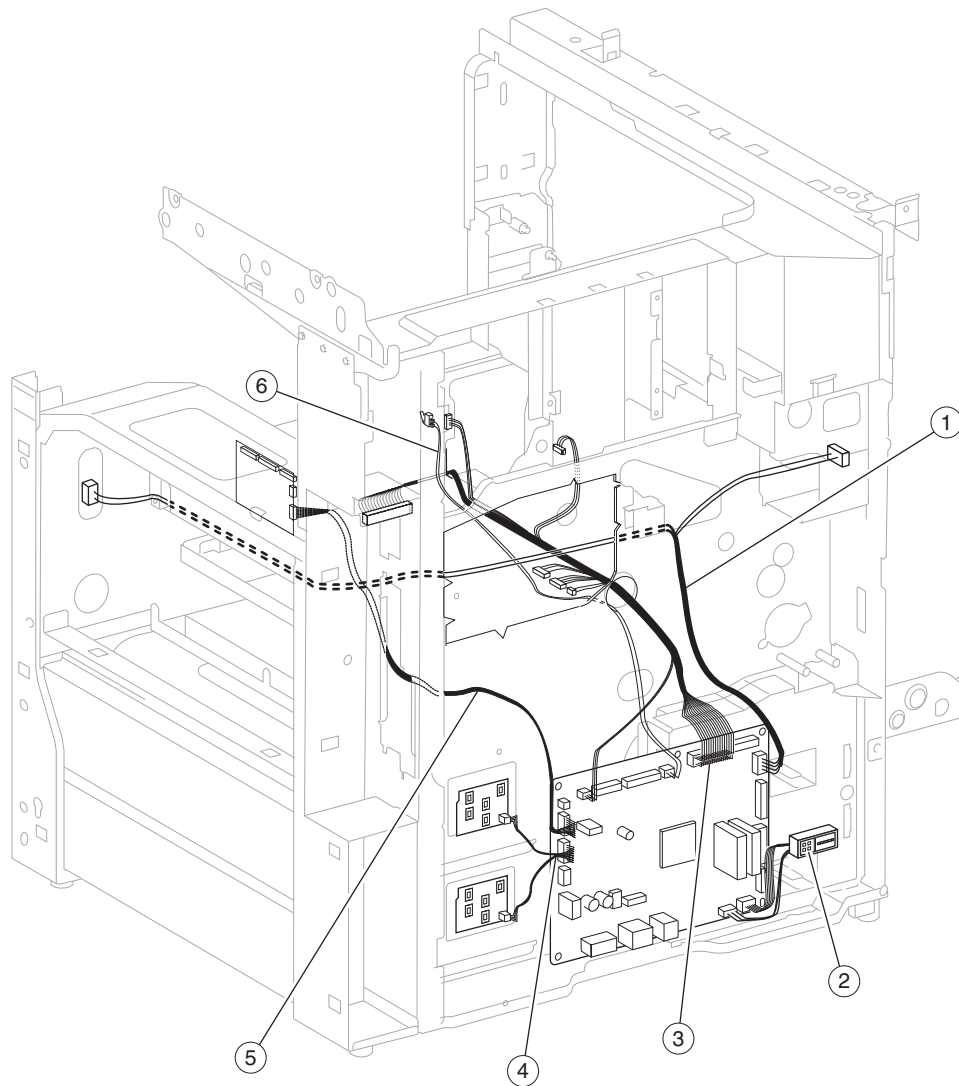
Previous



Next



Go Back



Asm Index	Part number	Units/mach	Units/kit or pkg	Description
44-1	40X0683	1	1	Interlock switch cable assembly
2	40X0673	1	1	HCF hookup connector assembly
3	40X0637	1	1	Multi connector cable assembly 1
4	40X0676	1	1	Media size switch cable assembly
5	40X2318	1	1	Multi connector cable assembly 3
6	40X1390	1	2	Switch (PC cartridge interlock) kit includes: <ul style="list-style-type: none"> • Backup spring • Switch (PC cartridge interlock)

Assembly 45: Electrical cables

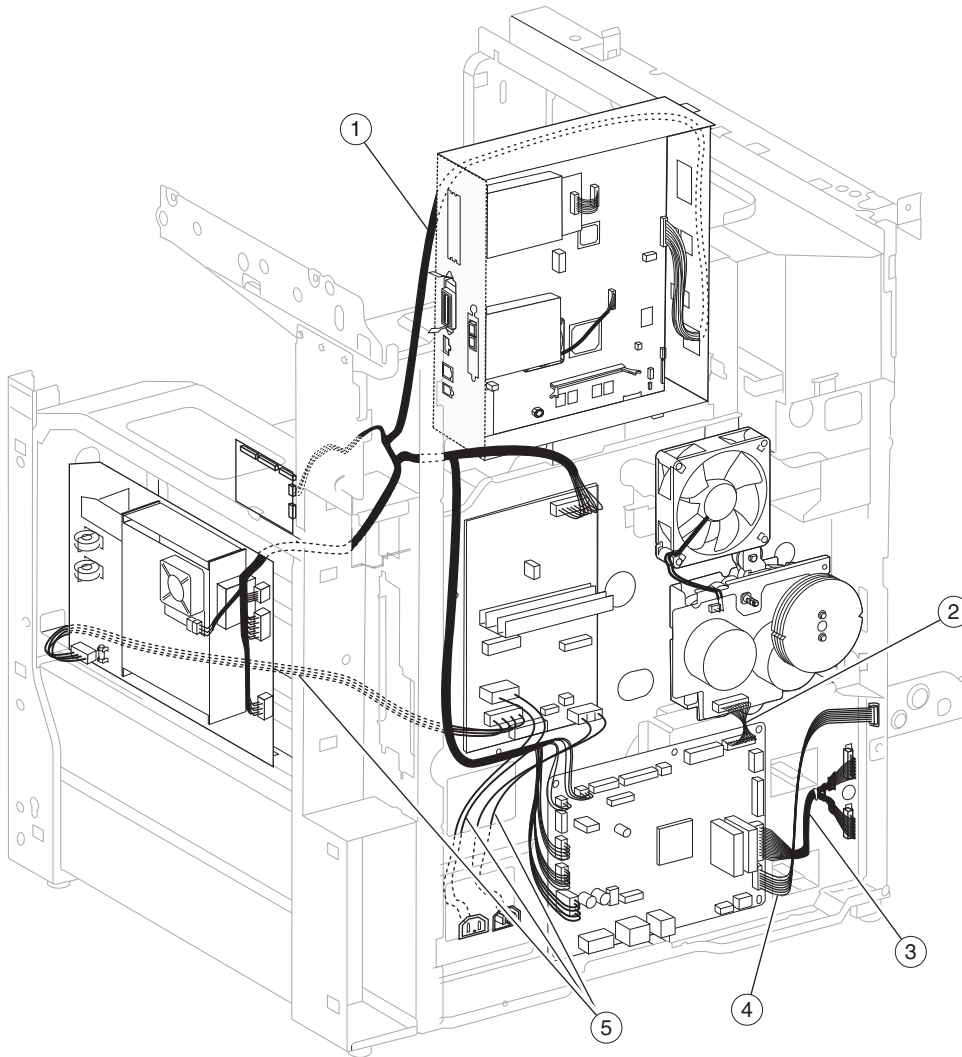
Previous



Next



Go Back



Asm Index	Part number	Units/mach	Units/kit or pkg	Description
45-1	40X2318	1	1	Multi connector cable assembly 3 Note: Assembly 44 (Index # 5) on page 89 and Assembly 45 (Index #1) on page 90 is a cable bundle that makes up Multi connector cable assembly 3.
2	40X0685	1	1	Dual drive motor cable assembly
3	40X0674	1	1	Media feed unit cable assembly
4	40X0675	1	1	MPF hookup cable assembly
5	40X2313	1	7	AC power input socket kit includes: <ul style="list-style-type: none"> • Screws 4 mm (2 each) • Bracket • AC power input socket • Ground wire • Main AC cable assembly • Finisher AC output

Assembly 46: Electrical cables

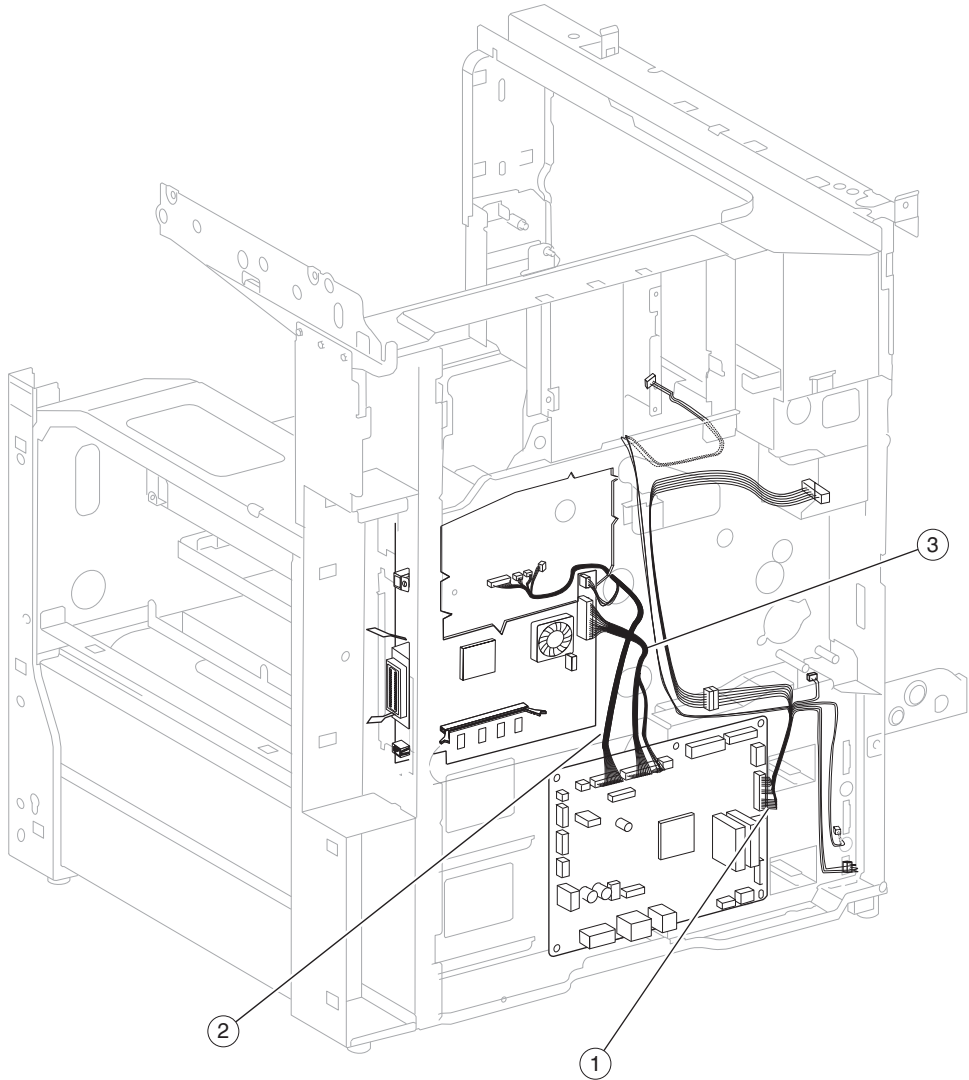
Previous



Next

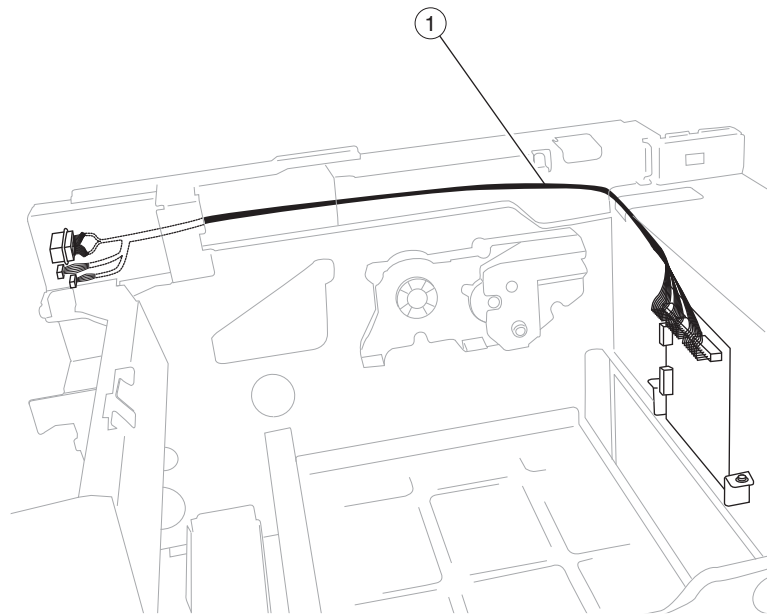


Go Back



Asm Index	Part number	Units/mach	Units/kit or pkg	Description
46-1	40X2367	1	1	Multi connector cable assembly 2
2	40X2317	1	1	Printhead cable assembly
3	40X0677	1	1	RIP card cable assembly

Assembly 47: Electrical cable



Previous



Next



Go Back

Asm Index	Part number	Units/mach	Units/kit or pkg	Description
47-1	40X0679	1	1	Exit interface cable assembly

Assembly 48: Power cords

Asm Index	Part number	Units/mach	Units/kit or pkg	Description
48-NS	40X0269	1	1	Power cord—USA, Canada, Latin America, Asia Pacific 8ft straight
NS	40X0270	1	1	Power cord—Japan 8ft straight
NS	40X0274	1	1	Power cord—Switzerland 6ft straight
NS	40X0275	1	1	Power cord—Israel 6ft straight
NS	40X0276	1	1	Power cord—South Africa 6ft straight
NS	40X4596	1	1	Power cord—Brazil 8ft straight
NS	40X0278	1	1	Power cord—Austria, Russia 6ft straight
NS	40X0279	1	1	Power cord—Denmark 6ft straight
NS	40X0280	1	1	Power cord—Korea 6ft straight
NS	40X0281	1	1	Power cord—Taiwan 6ft straight
NS	40X0282	1	1	Power cord—China 6ft straight
NS	40X0286	1	1	Power cord—England, France, Germany, Spain, Belgium 6ft straight
NS	40X0287	1	1	Power cord—Italy 6ft straight
NS	40X0288	1	1	Power cord—Argentina 8ft straight
NS	40X0296	1	1	Power cord—Australia 6ft straight
NS	40X0297	1	1	Power cord—US et al 6ft straight

Previous



Next



Go Back

Assembly 49: Miscellaneous

Asm-Index	Part number	Units/mach	Units/kit or pkg	Description
49-NS	40X4819	1	1	RS232C serial interface card
NS	40X4823	1	1	Parallel 1284-B interface card
NS	40X0392	1	1	Scanner and touch-screen wipes
NS	40X0948	NA	NA	Assorted E-clip packet
NS	40X0949	NA	NA	Assorted screw packet
NS	40X1374	1	1	X860de/X862de/X864de Forms + Bar code card
NS	40X4827	1	1	MarkNet™ N8130 Fiber Ethernet 100BaseFX, 10 BaseFL
NS	40X1383	1	1	X860de/X862de/X864de IPDS and SCS/TNE card
NS	40X5952	1	1	Lexmark PrintCryption card assembly
NS	40X5969	1	1	Korean font card
NS	40X5970	1	1	Simplified Chinese font card
NS	40X5971	1	1	Traditional Chinese font card
NS	40X5972	1	1	Japanese font card
NS	40X5704	1	1	256MB Flash card
NS	40X5301	1	1	256MB DDR2-DRAM
NS	40X5302	1	1	512MB DDR2-DRAM
NS	40X5303	1	1	1024MB DDR2-DRAM
NS	40X0770	1	1	X85xe, X86xe ADF Feed unit roll kit
NS	40X0394	1	14	Maintenance kit (110 V) <ul style="list-style-type: none"> • Fuser unit assembly • Transfer roll assembly • Feed rolls (4 each) • Pick rolls (4 each) • Separation rolls (4 each)
NS	40X0398	1	14	Maintenance kit (220 V) <ul style="list-style-type: none"> • Fuser unit assembly • Transfer roll assembly • Feed rolls (4 each) • Pick rolls (4 each) • Separation rolls (4 each)
NS	40X2377	1	14	Maintenance kit (100 V) <ul style="list-style-type: none"> • Fuser unit assembly • Transfer roll assembly • Feed rolls (4 each) • Pick rolls (4 each) • Separation rolls (4 each)
NS	40X2734	1	2	Maintenance kit (ADF) <ul style="list-style-type: none"> • Feed/pick roll assembly • Separation guide assembly
NS	40X4602	1	1	Smart card 3121
NS	40X4603	1	1	Smart card 5121
NS	40X4604	1	1	Smart card 5125

Previous



Next



Go Back

Index

A

accessing service menus **3-1**
 acronyms **1-74**
 Asterisk button **2-4**

B

Backspace button **2-4**
 buttons
 Asterisk **2-4**
 Backspace **2-4**
 Cancel Jobs **2-7**
 Copy **2-5**
 Dial Pause **2-4**
 E-mail **2-5**
 Fax **2-5**
 FTP **2-5**
 Held Jobs **2-5, 2-6**
 Keypad **2-3**
 Lock Device **2-6**
 Menus **2-5**
 Pound **2-4**
 Release Held Faxes **2-6**
 Search Held Jobs **2-6**
 Selected radio **2-9**
 Start **2-4**
 Status message bar **2-6**
 Status/Supplies **2-6**
 Stop **2-4**
 Unlock Device **2-7**
 Unselected radio **2-9**

C

component locations **5-1**
 cables **5-8**
 duplex components **5-14**
 exit 2 components **5-15**
 HVPS **5-1**
 LVPS **5-1**
 printer boards **5-1**
 printer motors and sensors **5-2**
 printer switches **5-7**
 TTM components **5-13**
 Configuration Menu
 ADF Edge Erase **3-42**
 available menus **3-33**
 Disk Encryption **3-44**
 Energy Conserve **3-41**
 entering **3-33**
 Envelope Prompts **3-44**
 EVENT LOG **3-42**
 Factory Defaults **3-41**
 FB Edge Erase **3-42**
 Font Sharpening **3-49**
 Format Fax Storage **3-42**
 Jobs On Disk **3-44**

Key Repeat Initial Delay **3-51**
 Key Repeat Rate **3-51**
 LES Applications **3-50**
 Maintenance Counter Value **3-35**
 Min Copy Memory **3-41**
 Panel Menus **3-40**
 Paper Prompts **3-44**
 PPDS Emulation **3-40**
 Print Quality Pages **3-38**
 REGISTRATION **3-36**
 Quick Test **3-37**
 Require Standby **3-50**
 Reset Maintenance Counter **3-35**
 Short Edge Printing **3-50**
 SIZE SENSING **3-39**
 Tray Low Message **3-50**
 Wipe Disk **3-47**

connectivity
 optional **1-1**
 standard **1-1**

D

diagnostic aids **3-1**
 accessing service menus **3-1**
 diagnostic information **2-1**
 confirm the installation status **2-2**
 error code messages **2-11**
 service checks **2-36**
 start **2-1**
 using service checks **2-1**
 Diagnostic Menus
 entering diagnostic menus **3-2**
 Diagnostics Menu
 available tests **3-2**
 BASE SENSOR TEST **3-16**
 DEVICE TESTS **3-17**
 Disk Test/Clean **3-17**
 Quick Disk Test **3-17**
 DUPLEX TESTS
 3-10
 Quick Test **3-10**
 EVENT LOG **3-22**
 Clear the Event Log **3-24**
 Display the Event Log **3-22**
 Print the Event Log **3-24**
 FINISHER TESTS
 Feed Tests **3-14**
 Hole Punch Test **3-14**
 Sensor Test **3-14**
 Staple Test **3-13**
 HARDWARE TESTS **3-7**
 Button Test **3-7**
 CACHE Test **3-9**
 DRAM Test **3-8**
 Panel Test **3-7**

Previous



Next



Go Back

INPUT TRAY TESTS

Feed Tests **3-10**Sensor Test **3-11**MOTOR TESTS **3-5**

OUTPUT TRAY TESTS

Feed Tests **3-12**Feed To All Bins **3-12**Sensor Test **3-13**PRINT TESTS **3-6**PRINTER SETUP **3-19**Configuration ID **3-20**Defaults **3-19**Edge to Edge **3-21**Enable Edge to Edge Copy **3-21**Engine Setting 1 to 16 **3-20**Model Name **3-20**Permanent Page Count **3-20**Printed Page Count **3-20**Serial Number **3-20**REPORTS **3-22**

SCANNER TESTS

ASIC Test **3-25**Feed Test **3-25**Scanner Manual Registration **3-26**Scanner manual registration factory defaults **3-30**Sensor Test **3-31**Dial Pause button **2-4**duty cycle **1-3****E**emulation **1-2**error code messages **2-11**

error codes

200.00 sensor (registration) off jam (too long) **2-36**200.01 sensor (registration) static on jam **2-37**201.00 sensor (fuser exit) on jam **2-38**202.00 sensor (fuser exit) off jam **2-39**202.01 sensor (fuser exit) off (too short) jam **2-40**202.02 sensor (fuser exit) static jam **2-41**203.00 sensor (exit 2) on jam **2-41**203.01 sensor (exit 2) off jam **2-43**203.02 sensor (exit 2) on jam in standard bin or finisher **2-45**203.03 sensor (exit 2) static jam **2-46**230.00 sensor (duplex wait) on jam **2-47, 2-48**230.01 sensor (duplex wait) static jam **2-50**231.00 sensor (registration) on jam (duplex paper feed) **2-50**231.01 sensor (registration) on jam (duplex paper feed) **2-52**241.00 sensor (pre-feed) on jam (tray 1 feed) **2-54**241.01 sensor (registration) on jam (tray 1 feed) **2-55**242.00 sensor (pre-feed) on jam (tray 2 feed) **2-56**242.01 sensor (tray 2 feed-out) on jam (tray 2 feed) **2-58**242.02 sensor (registration) on jam (tray 2 feed) **2-60**242.03 sensor (tray 2 feed-out) static jam **2-62**243.00 sensor (pre-feed) on jam (tray 3 media feed) **2-62**

243.01 sensor (tray 3 feed-out) on jam (tray 3 media

feed) **2-64**243.02 sensor (tray 2 feed-out) on jam (tray 3 media feed) **2-66**243.03 sensor (registration) on jam (tray 3 media feed) **2-67**243.04 sensor (tray 3 feed-out) static jam **2-69**244.00 sensor (tray 4 feed-out) on jam (tray 4 media feed) **2-70**244.01 sensor (tray 3 feed-out) on jam (tray 4 media feed) **2-73**244.02 sensor (pre-feed) on jam (tray 4 media feed) **2-75**244.03 sensor (registration) on jam (tray 4 media feed) **2-77**244.04 sensor (pre-feed) on jam (tray 4 media feed) **2-78**244.05 sensor (tray 4 feed-out) static jam **2-80**250.00 sensor (registration) on jam (MPF pick) **2-81**290.00 switch (sheet through) static jam **2-83**290.01 sensor (sheet through) on jam **2-83**290.02 sensor (ADF pre-registration) on jam ADF simplex side **2-86**290.03 sensor (ADF pre-registration) off jam **2-88**290.10 sensor (ADF pre-registration) static jam **2-90**290.11 sensor (ADF registration) on jam ADF simplex side **2-91**290.12 sensor (ADF registration) on jam side **2-93**290.13 sensor (ADF registration) off jam **2-95**290.14 sensor (ADF inverter) on jam (inverting) **2-97**290.15 sensor (ADF registration) off jam (inverting) **2-99**290.21 sensor (ADF width APS 1) static jam **2-102**290.22 sensor (ADF width APS 2) static jam **2-103**290.23 sensor (ADF width APS 3) static jam **2-104**291.00 sensor (ADF registration) static jam **2-104**291.01 sensor (ADF inverter) off jam (inverting) **2-105**291.02 sensor (ADF inverter) on jam **2-107**291.03 sensor (ADF inverter) off jam **2-109**294.00 sensor (ADF inverter) static jam **2-112**294.01 sensor (ADF pre-registration) on jam side 2 **2-113**294.02 sensor (ADF pre-registration) off jam on inverting **2-115**295.00 size mismatch jam (mix-size) **2-117**295.01 size mismatch jam (no mix-size) **2-119**295.02 invalid combine size jam **2-120**295.03 too short size jam **2-121**295.04 too long size jam **2-123**298.01 scanner cable missing or unplugged **2-124**841.00 image pipeline ASIC failure **2-124**842.00 scanner communication failure **2-125**842.01 scanner communication failure **2-125**842.02 scanner communication failure **2-126**842.03 scanner communication failure **2-127**842.04 scanner communication failure **2-127**842.10 scanner unit assembly - ADF communication failure **2-128**842.11 scanner communication failure (by scanner) **2-128**

Previous



Next



Go Back

- 842.12 scanner unit assembly communication failure **2-129**
- 843.00 sensor (scanner HP) failure **2-130**
- 843.01 scanner carriage over run failure **2-131**
- 843.10 ADF RAM test failure **2-131**
- 843.11 ADF EEPROM failure **2-131**
- 843.12 ADF pick roll position lift up failure **2-132**
- 843.20 scanner unit assembly connection failure **2-133**
- 843.21 scanner unit assembly EEPROM failure **2-133**
- 843.22 scanner unit assembly EEPROM sub system failure **2-134**
- 843.23 scanner cooling fan failure **2-134**
- 843.24 image processing failure **2-135**
- 843.25 scanner controller card assembly failure **2-135**
- 843.26 scanner controller card assembly failure **2-136**
- 844.00 exposure lamp failure **2-136**
- 844.01 lamp illumination failure **2-137**
- 845.00 CCD failure **2-139**
- 845.01 CCD initialization (lamp on) failure **2-139**
- 845.02 CCD initialization (lamp off) failure **2-140**
- 846.00 scanner communication failure **2-140**
- 846.01 scanner communication failure **2-141**
- 846.10 sensor (ADF width APS X) failure **2-141**
- 846.12 scanner unit assembly software logic failure **2-143**
- 846.13 switch (platen interlock) open **2-143**
- 849.00 hard drive failure **2-144**
- 903.00 RAM read/write check failure **2-147**
- 904.00 NVM data failure **2-148**
- 905.00 NVM read/write cannot be executed failure **2-148**
- 906.00 CPU power to access NVM failure **2-149**
- 907.00 RFID ASIC failure **2-149**
- 908.00 PPM data failure **2-150**
- 909.00 zero cross failure **2-150**
- 910.00 transport motor stop failure **2-150**
- 911.00 transport motor failure **2-151**
- 912.00 PC cartridge unit motor failure **2-152**
- 913.00 printhead assembly failure **2-153**
- 914.00 toner add motor assembly failure **2-153**
- 915.00 fuser cooling fan failure **2-154**
- 916.00 PC cartridge cooling fan failure **2-154**
- 917.00 LVPS cooling fan failure **2-155**
- 918.00 exit 1 media shift HP failure **2-156**
- 919.00 sensor (exit 2 media shift HP) failure **2-157**
- 919.01 exit 2 unit assembly connection failure **2-158**
- 920.00 fuser unit assembly on time failure **2-158**
- 921.00 over heat temperature failure **2-159**
- 922.00 center thermistor failure **2-159**
- 923.00 rear thermistor failure **2-160**
- 924.00 pressure roll thermistor failure **2-160**
- 925.00 fuser operating temperature failure **2-160**
- 927.00 PC cartridge RFID data write failure **2-161**
- 928.00 PC cartridge RFID communication failure **2-161**
- 929.00 sensor (ATC) failure **2-162**
- 930.00 laser power failure **2-162**
- 932.00 toner cartridge RFID data write failure **2-163**
- 933.00 toner cartridge RFID communication failure **2-163**
- 939.00 RIP card assembly communication failure **2-163**
- 941.00 media tray 1 lift up / no media tray failure **2-164**
- 942.00 media tray 2 lift up / no media tray failure **2-165**
- 943.00 tray 3 lift up / no tray failure **2-167**
- 944.00 tray 4 lift up / no tray failure **2-168**
- 951.XX RIP card assembly NVRAM failure **2-170**
- 953.XX operator panel assembly NVRAM failure **2-170**
- 955.XX RIP card assembly NAND CRC failure **2-170**
- 956.00 RIP card assembly processor failure **2-171**
- 956.01 RIP card assembly processor over temperature failure **2-171**
- 956.02 RIP card assembly cooling fan failure **2-171**
- 956.03 RIP card assembly FPGA failure **2-172**
- 980.00 2TM/TTM controller card assembly communication failure **2-172**
- 980.03 duplex controller card assembly communication failure **2-173**
- 980.03 exit interface card assembly communication failure **2-173**
- 980.05 engine flicker communication failure **2-174**
- 997.00 duplex controller card assembly type failure **2-174**
- error messages
- 2TM/TTM left door assembly open **2-175**
- duplex left door assembly open **2-176**
- exit 2 left door assembly open **2-176**
- media size mismatch in width **2-177, 2-178**
- no media in the select media tray **2-179, 2-180**
- paper is installed (short edge) in the media paper tray **2-181**
- PC cartridge end of life **2-181**
- PC cartridge RFID failure **2-182**
- PC cartridge set failure **2-182**
- printer front door open **2-183**
- printer left door open **2-184**
- printer left lower door open **2-185**
- scanner missing failure **2-187**
- scheduled maintenance required **2-185**
- standard bin 1 full **2-185**
- standard bin 2 full **2-186**
- switch (ADF left cover interlock) open **2-188**
- toner cartridge empty **2-188**
- toner cartridge near empty **2-190**
- toner cartridge RFID failure **2-190, 2-191**
- toner cartridge set failure **2-191**
- tray 1 media size failure **2-192**
- tray 1 media size mismatch in length **2-193**
- tray 2 media size failure **2-193**
- tray 2 media size mismatch in length **2-195**
- tray 3 media size failure **2-197**
- tray 3 media size mismatch in length **2-199**
- tray 4 media size failure **2-198**
- tray 4 media size mismatch in length **2-201**
- exiting Configuration Menu **3-52**
- exiting Diagnostics Menu **3-32**
- F**
- fonts **1-2**

Previous



Next



Go Back

H

- Home screen **2-5**
 - buttons **2-5**
- home screen
 - status message bar **2-6**

I

- image quality trouble **2-203**
 - blank print (no print) **2-206**
 - faint print (low contrast) **2-204**
 - image quality **2-204**
 - solid black **2-208**
 - troubleshooting **2-203**
 - vertical blank lines (white stripes in media transport direction) **2-209**
- image quality troubles
 - after image **2-219**
 - background (fog) **2-220**
 - horizontal band printheads out **2-211**
 - horizontal stripes **2-215**
 - media damage **2-223**
 - no fuse **2-224**
 - partial lack **2-217**
 - skew **2-221**
 - spots **2-218**
 - vertical stripes **2-213**
- indicator light **2-4**

L

- LCD touch-screen features
 - Menu trail line **2-10**
- light, indicator **2-4**
- Lock **2-6**
- lubrication specification **6-2**

M

- maintenance scheduled **6-2**
- maximum resolution **1-1**
- media types **1-3**
- media weights **1-3**
- memory **1-1**
- models **1-1**

N

- nlock **2-7**
- numeric keypad **2-3**

O

- operating systems **1-2**
- operator panel
 - Asterisk **2-4**
 - Backspace **2-4**
 - Dial Pause **2-4**
 - Display **2-3**
 - Keypad **2-3**
 - Pound **2-4**
 - Start **2-4**
 - Stop **2-4**
- optional connectivity **1-1**
- options and features

- description **1-4**
- duplex **1-65**
 - duplex drive motor **1-65**
 - media transport **1-66**
- exit 2 **1-69**
 - exit
 - 2 drive motor **1-69**
 - media transport **1-70**
- tandem tray **1-56**
 - driving force transmission path **1-57**
 - main components **1-63**
 - media transport **1-58**
 - media tray assembly **1-60**

P

- paper capacity **1-2**
- paper handling **1-3**
- parts catalog **7-1**
 - 2000-sheet dual input (TTM)—covers **7-65**
 - 2000-sheet dual input (TTM)—drive and electrical **7-79**
 - 2000-sheet dual input (TTM)—feed and transport **7-71, 7-73**
 - 2000-sheet dual input (TTM)—left door **7-77**
 - 2000-sheet dual input (TTM)—media feed unit **7-75**
 - 2000-sheet dual input (TTM)—tray 3 **7-67**
 - 2000-sheet dual input (TTM)—tray 4 **7-69**
- ADF assembly **7-46**
- ADF covers and components **7-48**
- ADF document tray **7-62**
- ADF feeder **7-52**
- ADF feeder roll **7-58**
- ADF left cover components **7-54**
- ADF media guide **7-56**
- ADF motor unit **7-60**
- carriage motor and cooling fan **7-42**
- covers **7-3, 7-4**
- covers and operator panel **7-36**
- dual unit drive motor **7-30**
- duplex—duplex inner **7-83**
- duplex—duplex outer **7-81**
- electrical **7-32**
- electrical cable **7-92**
- electrical cables **7-88, 7-89, 7-90, 7-91**
- exit 2—exit 2 inner **7-87**
- exit 2—exit 2 outer **7-85**
- full/half rate carriage **7-44**
- fuser **7-26**
- how to use this parts catalog **7-1**
- left door **7-20**
- left door and transfer roll **7-18**
- left lower door and transport **7-16**
- lens and sensors **7-40**
- media feed unit **7-6**
- media feed unit exploded (tray 1 and tray 2) **7-8**
- media tray **7-10**
- miscellaneous **7-94**
- MPF unit **7-12**
- MPF unit feed **7-14**
- platen glass **7-38**
- power cords **7-93**

Previous



Next



Go Back

printhead, cartridge guides, and fans **7-24**
 registration **7-22**
 standard exit 1 **7-28**
 Pound button **2-4**
 preventive maintenance **6-1**
 printer overview **1-4**
 basic model **1-4**
 configured model **1-5**
 printer technology **1-1**
 processor **1-1**

R

radio button
 selected **2-9**
 unselected **2-9**
 removals
 AC power input socket assembly **4-124, 4-125**
 controller box lower cover **4-17**
 controller box side cover **4-18**
 dual drive motor assembly **4-114**
 ESD-sensitive parts **4-1**
 exit 1 drive belt **4-113**
 exit 1 media shift assembly **4-105**
 exit 1 media shift gear **4-111**
 exit interface card assembly **4-117**
 fax interface card assembly **4-129**
 feed roll **4-45**
 feed roll one way clutch **4-46**
 feed roll one way gear 22 tooth **4-47**
 feed unit drive gear 27 tooth **4-53**
 finisher AC output **4-126**
 front door support strap and front door magnetic catch **4-7**
 front inner cover **4-8**
 fuser cooling fan **4-98**
 fuser unit assembly **4-104**
 hard drive **4-128**
 high voltage power supply (HVPS) card **4-115**
 left door assembly **4-75**
 left door assembly handle **4-78**
 left lower door handle assembly **4-72**
 left lower pinch roll assembly **4-71**
 LVPS card assembly **4-120**
 LVPS cooling fan **4-121**
 media feed lift motor **4-33**
 media feed unit assembly 1 **4-20**
 media feed unit assembly 2 **4-23**
 media feed unit drive gear - 13 tooth **4-37**
 media feed unit drive gear - 28/21 tooth **4-42**
 media feed unit drive gear - 29 tooth **4-43**
 media out actuator **4-38**
 media shift motor **4-108**
 media transport roll assembly/gear **4-69**
 media tray end guide **4-30**
 media tray lift gear group **4-32**
 media tray side guides **4-26**
 MPF feed drive gear group **4-59**
 MPF feed shaft assembly **4-63**
 MPF feed unit assembly **4-54**
 MPF fold down tray assembly **4-65**

MPF media out actuator and upper frame **4-55**
 MPF pick solenoid/pick lever **4-62**
 MPF pressure pad **4-60**
 MPF rear cover **4-58**
 MPF transport pinch roll assembly **4-57**
 MPF transport roll assembly **4-61**
 option hookup cover **4-14**
 PC cartridge cooling fan **4-102**
 PC cartridge cooling fan duct **4-100**
 pick roll **4-51, 4-64**
 pick roll drive gear 25 tooth **4-52**
 pick roll idler gear 33 tooth **4-50**
 printer front door assembly **4-6**
 printer front left cover **4-3**
 printer left door support strap **4-74**
 printer left lower door assembly **4-70**
 printhead assembly **4-99**
 rear lower cover **4-12**
 rear motor cover **4-11**
 rear upper cover **4-15**
 registration clutch assembly **4-80**
 registration roll assembly **4-79**
 right lower cover **4-10**
 right upper cover **4-9**
 RIP card assembly **4-130**
 RIP card chassis bracket assembly **4-127**
 sensor (exit 1 bin full) **4-110**
 sensor (exit 1 media shift) **4-109**
 sensor (fuser exit) **4-103**
 sensor (humidity and temperature) **4-90**
 sensor (media level) **4-39**
 sensor (media out) **4-40**
 sensor (MPF media out) **4-56**
 sensor (pre-feed) **4-41**
 sensor (registration) **4-81**
 sensor (RFID PC cartridge) and sensor (RFID toner cartridge) **4-94**
 sensor (tray 2 feed-out) **4-83**
 separation roll **4-49**
 separation roll one way friction clutch **4-48**
 switch (left lower door interlock) **4-68**
 switch (main power) **4-116**
 switch (media size) **4-19**
 switch (PC cartridge interlock) **4-84**
 switch (printer front door interlock) **4-4**
 switch (printer left door interlock) **4-76**
 toner add motor assembly **4-97**
 toner cartridge guide assembly **4-95**
 top cover assembly **4-5**
 transfer roll assembly **4-73**
 transfer roll guide assembly **4-77**
 tray lift coupling assembly **4-34**
 tray lift one way clutch/gear assembly **4-35**
 vertical drive gear assembly **4-67**
 removals—2000-sheet dual input (TTM)
 2TM/TTM controller card assembly **4-281**
 2TTM/TTM left door assembly **4-276**
 caster **4-220**
 clutch **4-282**

Previous



Next



Go Back

- drive motor assembly **4-280**
- feed roll **4-266**
- feed roll one-way clutch **4-267**
- feed unit drive gear 27T **4-275**
- foot cover **4-216**
- front cable assembly **4-229**
- left cover **4-218**
- lift coupling assembly **4-256**
- media feed lift motor **4-255**
- media feed unit assembly (tray 3) **4-250**
- media feed unit assembly (tray 4) **4-246**
- media feed unit drive gear 13 tooth **4-259**
- media feed unit drive gear 28/21T **4-264**
- media feed unit drive gear 29T **4-265**
- media guide rack and pinion **4-230**
- media out actuator **4-260**
- media transport roll assembly **4-253**
- one-way 22T **4-268**
- one-way clutch/gear assembly **4-257**
- pick roll **4-273**
- pick roll drive gear 25T **4-274**
- pick roll idler gear 33T **4-272**
- rear cover **4-219**
- right cover **4-217**
- sensor (media level) **4-261**
- sensor (media out) **4-262**
- sensor (pre-feed) **4-263**
- sensor (tray 3 feed-out) **4-254**
- sensor (tray 4 feed-out) **4-248**
- separation roll **4-270**
- separation roll one-way friction clutch **4-269**
- switch (2TM/TTM left door interlock) **4-277**
- switch (TTM media size) **4-249**
- top cover **4-215**
- tray 3 assembly **4-224**
- tray 3 front cover **4-225**
- tray 3 lift gear assembly **4-278**
- tray 3 media guide lock assembly **4-233**
- tray 3 mylar actuator **4-234**
- tray 3 rear cable assembly **4-226**
- tray 4 assembly **4-223**
- tray 4 front cables **4-240**
- tray 4 front cover **4-235**
- tray 4 lift gear assembly **4-279**
- tray 4 media guide lock assembly **4-244**
- tray 4 media guide rack and pinion **4-242**
- tray 4 mylar actuator **4-245**
- tray 4 rear cables **4-237**
- tray 4 transport assembly **4-236**
- tray support roll **4-221**
- removals—ADF
 - actuator/media guide assembly **4-198**
 - ADF controller card assembly **4-175**
 - ADF exit roll assembly **4-204**
 - ADF feed drive motor assembly **4-180**
 - ADF feed/pick roll assembly **4-186**
 - ADF feed-out roll assembly **4-201**
 - ADF front cover assembly **4-174**
 - ADF left cover assembly **4-176**
 - ADF left cover media guide **4-189**
 - ADF media feed assembly **4-170**
 - ADF rear cover **4-173**
 - ADF registration motor **4-209**
 - ADF registration roll assembly **4-199**
 - ADF separation roll guide assembly **4-203**
 - ADF transport roll assembly **4-206**
 - ADF unit assembly **4-167**
 - document set actuator **4-188**
 - document set LED **4-182**
 - document tray assembly **4-172**
 - inverter gate **4-199**
 - inverter solenoid assembly **4-181**
 - left cover pinch roll assembly **4-179**
 - media scan guide **4-169**
 - pick roll position motor assembly **4-190**
 - platen cushion **4-168**
 - sensor (ADF inverter) **4-197**
 - sensor (ADF pre-registration) **4-196**
 - sensor (ADF registration) **4-195**
 - sensor (ADF width APS 1) **4-192**
 - sensor (ADF width APS 2) **4-193**
 - sensor (ADF width APS 3) **4-194**
 - sensor (document set) **4-207**
 - sensor (document tray length 1) **4-213**
 - sensor (document tray length 2) **4-214**
 - sensor (document tray width 1) **4-210**
 - sensor (document tray width 2) **4-211**
 - sensor (document tray width 3) **4-212**
 - sensor (pick roll position HP) **4-185**
 - sensor (sheet through) **4-208**
 - sheet through actuator **4-183**
 - switch (ADF left cover interlock) **4-191**
- removals—duplex unit
 - duplex access handle **4-317**
 - duplex controller card assembly **4-311**
 - duplex docking locks **4-286**
 - duplex drive gear 28T **4-290**
 - duplex drive gear 33/74T **4-293**
 - duplex drive gear 33T **4-296**
 - duplex drive gear 42T **4-299**
 - duplex drive motor assembly **4-308**
 - duplex media center transport roll **4-321**
 - duplex media in actuator **4-305**
 - duplex media transport roll **4-320**
 - duplex sensor (duplex wait) **4-314**
 - duplex support strap **4-287**
 - duplex switch (left cover interlock) **4-302**
 - duplex unit assembly **4-284**
- removals—exit 2
 - exit 2 actuator **4-330**
 - exit 2 cooling fan **4-338**
 - exit 2 diverter gate **4-325**
 - exit 2 left cover **4-325**
 - exit 2 left door handle **4-323**
 - exit 2 media diverter solenoid **4-334**
 - exit 2 media shift gear **4-333**
 - exit 2 right cover **4-327**
 - exit 2 sensor (exit 2 media shift HP) **4-336**



exit 2 sensor (exit 2) **4-335**
 exit 2 sensor (standard bin full exit 2) **4-337**
 exit 2 switch (left door interlock) **4-331**
 exit 2 unit assembly **4-322**
 exit 2 unit docking lever **4-323**
 standard bin full exit 2 actuator **4-329**

removals—scanner

ADF angle actuator assembly **4-160**
 CCD card/lens assembly **4-154**
 exposure lamp **4-166**
 exposure lamp PS card assembly **4-165**
 large platen glass **4-150**
 operator panel assembly **4-135**
 operator panel cable assembly **4-148**
 operator panel controller card assembly **4-147**
 operator panel cover assembly **4-140**
 operator panel user touch screen **4-146**
 scanner controller card assembly **4-151**
 scanner cooling fan **4-164**
 scanner drive motor assembly **4-163**
 scanner left cover **4-133**
 scanner PS card assembly **4-162**
 scanner right cover **4-134**
 scanner top rear cover **4-132**
 scanner unit assembly **4-149**
 sensor (ADF angle) **4-161**
 sensor (platen length APS 1) **4-156**
 sensor (platen length APS 2) **4-157**
 sensor (scanner HP) **4-159**
 small platen glass **4-153**
 switch (platen interlock) **4-158**
 USB-Smart card-LED cable assembly **4-144**

S

safety information **v-xix**
 safety inspection guide **6-1**
 scheduled maintenance **6-2**
 service checks **2-36**
 900.xx System software **2-145**
 service error
 900.xx System software error **2-145**
 size and weight--without finisher **1-3**
 standard connectivity **1-1**
 Start button **2-4**
 status message bar **2-6**
 Stop button **2-4**

T

tools required **1-73**

Previous



Next



Go Back

Previous



Next



Go Back

Part number index

P/N	Description	Page
40X0269	Power cord—USA, Canada, Latin America, Asia Pacific 8ft straight	7-93
40X0270	Power cord—Japan 8ft straight	7-93
40X0274	Power cord—Switzerland 6ft straight	7-93
40X0275	Power cord—Israel 6ft straight	7-93
40X0276	Power cord—South Africa 6ft straight	7-93
40X0278	Power cord—Austria, Russia 6ft straight	7-93
40X0279	Power cord—Denmark 6ft straight	7-93
40X0280	Power cord—Korea 6ft straight	7-93
40X0281	Power cord—Taiwan 6ft straight	7-93
40X0282	Power cord—China 6ft straight	7-93
40X0286	Power cord—England, France, Germany, Spain, Belgium 6ft straight	7-93
40X0287	Power cord—Italy 6ft straight	7-93
40X0288	Power cord—Argentina 8ft straight	7-93
40X0296	Power cord—Australia 6ft straight	7-93
40X0297	Power cord—US et al 6ft straight	7-93
40X0388	Operator panel cover assembly w/o Smart card slot	7-37
40X0392	Scanner and touch-screen wipes	7-94
40X0394	Maintenance kit (110 V)	7-94
40X0394	Maintenance kit, 110 V	6-2
40X0398	Maintenance kit (220 V)	7-94
40X0398	Maintenance kit, 220 V	6-2
40X0507	Fax interface card cable assembly	7-35
40X0550	Left lower cover	7-3
40X0553	Switch (printer front door interlock)	7-3
40X0553	Switch (printer left door interlock)	7-19
40X0560	Front door magnetic catch	7-3
40X0561	Front door support strap	7-3
40X0562	Front inner cover	7-3
40X0563	Right upper cover	7-5
40X0564	Right lower cover	7-5
40X0568	Option hookup cover	7-5
40X0569	Media catch tray kit	7-7
40X0570	Switch (media size)	7-7
40X0571	Vertical turn mylar guide	7-7
40X0572	Vertical turn guide	7-7, 7-73
40X0573	Media tray assembly (this comes assembled)	7-11
40X0574	Media tray front cover	7-11
40X0576	Media tray side guide kit	7-11
40X0577	Media tray side guide actuator kit	7-11
40X0578	Media tray end guide kit	7-11
40X0579	Media tray end guide actuator kit	7-11
40X0580	Media tray lift gear kit	7-11
40X0581	Media feed unit assembly (this comes assembled)	7-9, 7-71, 7-73, 7-75
40X0582	Media feed lift motor	7-9, 7-75
40X0583	Tray lift coupling kit	7-9, 7-75
40X0585	Media feed drive gear kit	7-9, 7-75
40X0586	Media feed unit front guide kit	7-9, 7-75
40X0587	Media out actuator	7-9, 7-75
40X0588	Sensor (duplex wait)	7-81
40X0588	Sensor (exit 2 media shift HP)	7-87
40X0588	Sensor (exit 2)	7-87
40X0588	Sensor (exit1 media shift HP)	7-29
40X0588	Sensor (fuser exit)	7-27
40X0588	Sensor (media level)	7-9, 7-75

Previous



Next



Go Back

40X0588	Sensor (media out) -----	7-9, 7-75
40X0588	Sensor (MPF media out) -----	7-13
40X0588	Sensor (standard bin full exit 1) -----	7-29
40X0588	Sensor (standard bin full exit 2) -----	7-87
40X0589	Sensor (ADF registration) -----	7-57
40X0589	Sensor (pre-feed) -----	7-9, 7-75
40X0589	Sensor (tray 2 feed-out) -----	7-23
40X0590	Pick roll assembly spring -----	7-9, 7-75
40X0591	Feed roll one-way clutch kit -----	7-9, 7-75
40X0593	Separation roll friction clutch kit -----	7-9, 7-75
40X0594	Feed unit roll kit -----	7-9, 7-75
40X0596	MPF media out actuator kit -----	7-13
40X0597	MPF unit cable assembly -----	7-13
40X0598	MPF idler gear bracket assembly -----	7-13
40X0599	MPF front cover -----	7-13
40X0600	MPF rear cover -----	7-13
40X0601	MPF transport pinch roll assembly -----	7-13
40X0603	MPF pick roll kit -----	7-15
40X0605	MPF transport roll kit -----	7-15
40X0606	MFP pick solenoid kit -----	7-15
40X0608	MPF fold down tray assembly -----	7-13
40X0609	Vertical drive gear assembly -----	7-17
40X0610	Switch (2TM/TTM left door interlock) -----	7-77
40X0610	Switch (duplex left door interlock) -----	7-81
40X0610	Switch (exit 2 left door interlock) -----	7-87
40X0610	Switch (left lower door interlock) -----	7-17
40X0612	Printer left lower door assembly (this comes assembled) -----	7-17
40X0613	Hinge pin -----	7-17
40X0614	Left lower door handle kit -----	7-17
40X0616	Transfer roll assembly -----	7-19
40X0617	Transfer roll power contact -----	7-19
40X0618	PC cartridge shutter link -----	7-19
40X0619	Transfer roll guide assembly -----	7-19
40X0620	Printer left door assembly (this comes assembled) -----	7-21
40X0621	Printer left door assembly handle kit -----	7-21
40X0622	PC cartridge shutter actuator -----	7-21
40X0623	Left door duplex entrance guide -----	7-21
40X0624	Printer left door support strap -----	7-21
40X0625	Registration roll assembly -----	7-23
40X0627	Sensor (registration) -----	7-23
40X0628	Registration mylar guide assembly -----	7-23
40X0630	Tray 2 feed-out sensor guide -----	7-23
40X0631	PC cartridge stop -----	7-25
40X0633	Sensor (hum & temp) -----	7-25
40X0634	PC cartridge guide assembly -----	7-25
40X0635	Laser opening guide -----	7-25
40X0636	Sensor (RFID PC cartridge) -----	7-25
40X0636	Sensor (RFID toner cartridge) -----	7-25
40X0637	Multi connector cable assembly 1 -----	7-25, 7-89
40X0638	Toner cartridge guide kit -----	7-25
40X0639	Toner add motor assembly -----	7-25
40X0640	Fuser cooling fan -----	7-25
40X0641	Printhead assembly -----	7-25
40X0643	PC cartridge cooling fan -----	7-25
40X0644	PC cartridge sensor connector -----	7-25
40X0650	Exit 1 sensor cable assembly -----	7-29
40X0651	Media shift motor -----	7-29
40X0653	Exit 1 media shift gear -----	7-29
40X0654	Media diverter gate kit -----	7-29



40X0657	Standard bin full exit 1 actuator kit	7-29
40X0659	Exit 1 drive belt	7-31
40X0660	Dual drive motor assembly	7-31
40X0661	Drive belt flange	7-31
40X0662	HVPS	7-33
40X0664	Exit interface card assembly	7-33
40X0673	HCF hookup connector assembly	7-33, 7-89
40X0674	Media feed unit cable assembly	7-90
40X0675	MPF hookup cable assembly	7-90
40X0676	Media size switch cable assembly	7-89
40X0677	RIP card cable assembly	7-91
40X0679	Exit interface cable assembly	7-92
40X0683	Interlock switch cable assembly	7-89
40X0685	Dual drive motor cable assembly	7-90
40X0686	RFID sensor cable assembly	7-88
40X0687	Top cover	7-65
40X0688	Foot cover	7-65
40X0689	Right cover	7-65
40X0690	Left cover	7-65
40X0691	Locking caster	7-65
40X0692	Sensor (tray 3 feed-out)	7-73
40X0693	Sensor cable kit	7-73
40X0695	2TM/TTM media transport roll assembly	7-73
40X0696	2TM/TTM left door pinch assembly (this comes assembled)	7-77
40X0697	2TM/TTM left door support strap	7-77
40X0699	2TM/TTM clutch kit	7-79
40X0703	Tray support roll (4)	7-65
40X0704	Tray 4 stopper	7-65
40X0705	Tray 3 front cover kit	7-67
40X0706	Lift cable pulley	7-67, 7-69
40X0707	Tray lift shaft assembly	7-67, 7-69
40X0708	Large idler pulley kit	7-67
40X0709	Tray 3 rear cable (2)	7-67
40X0710	Tray 3 front cable (2)	7-67
40X0711	TTM tray separator kit	7-67, 7-69
40X0712	Tray 3 media guide lock kit	7-67
40X0713	Media guide rack and pinion kit	7-67, 7-69
40X0714	TTM media tray catch	7-67, 7-69
40X0715	Tray 3 brake assembly	7-67
40X0716	Tray 3 slide kit	7-67
40X0717	Mylar actuator	7-67, 7-69
40X0718	Tray 4 front cover	7-69
40X0719	Tray 4 rear cable (2)	7-69
40X0720	Tray 4 front cable (2)	7-69
40X0721	Tray 4 media guide lock kit	7-69
40X0722	Tray 4 brake kit	7-69
40X0723	Tray 4 rear support roll (2)	7-69
40X0724	Tray 4 media transport assembly	7-71
40X0727	Sensor (tray 4 feed-out)	7-71
40X0728	Tray 4 media guide kit	7-71
40X0729	Switch (TTM media size switch)	7-71
40X0730	Tray 4 feed-out sensor cable assembly	7-71
40X0732	Upper vertical turn guide	7-73
40X0733	2TM/TTM left door assembly (this comes assembled)	7-77
40X0734	Tray 3 lift gear assembly	7-79
40X0735	Tray 4 lift gear assembly	7-79
40X0736	TTM drive gear kit	7-79
40X0755	MPF pickup spring	7-13
40X0770	X85xe, X86xe ADF Feed unit roll kit	7-94

Previous



Next



Go Back

40X0780	Duplex unit assembly (this comes assembled) -----	7-81, 7-83
40X0781	Duplex drive gear kit -----	7-81
40X0782	Duplex left door handle kit -----	7-81
40X0783	Duplex lower guide -----	7-81
40X0784	Duplex wait actuator kit -----	7-81
40X0785	Duplex drive motor kit -----	7-81
40X0786	Duplex controller card assembly -----	7-81
40X0787	Duplex left cover -----	7-81
40X0788	Duplex cable kit -----	7-81
40X0789	Duplex left door support strap -----	7-83
40X0790	Duplex docking lock (2) -----	7-83
40X0791	Hinge pin (2) -----	7-83
40X0792	Duplex media transport pinch roll kit -----	7-83
40X0793	Duplex media transport roll kit -----	7-83
40X0794	Exit 2 unit assembly (this comes assembled) -----	7-85, 7-87
40X0795	Exit 2 left door handle kit -----	7-85
40X0796	Media diverter gate kit -----	7-85
40X0797	Exit 2 left door support strap -----	7-85
40X0798	Left cover -----	7-85
40X0801	Right cover kit -----	7-87
40X0802	Exit 2 docking latch kit -----	7-87
40X0803	Exit 2 media shift gear -----	7-87
40X0805	Media diverter solenoid kit -----	7-87
40X0806	Exit 2 pinch roll kit -----	7-87
40X0807	Exit 2 cooling fan -----	7-87
40X0808	Standard bin full exit 2 actuator kit -----	7-87
40X0809	Exit 2 actuator -----	7-87
40X0880	Bushing 6 mm -----	7-9, 7-75
40X0948	Assorted E-clip packet -----	7-94
40X0949	Assorted screw packet -----	7-94
40X0952	Bushing 6 mm -----	7-9, 7-75
40X0953	TTM tray lift pulley kit -----	7-67, 7-69
40X0960	2TM/TTM retaining screws -----	7-3
40X0965	Media tray separation pad -----	7-11
40X0966	Media tray separation brush -----	7-11
40X0967	Media tray lift one-way clutch/gear kit -----	7-9, 7-75
40X0968	Media tray lift one-way shaft -----	7-9, 7-75
40X0969	Pick roll idler gear -----	7-9, 7-75
40X0970	Pick roll drive gear -----	7-9, 7-75
40X0971	MPF feed drive gear kit -----	7-15
40X0973	MPF feed cam gear kit -----	7-15
40X0974	MPF pressure pad kit -----	7-15
40X1374	X860de/X862de/X864de Forms + Bar code card -----	7-94
40X1380	MPF pressure pad spring -----	7-15
40X1381	MPF feed shaft bushing -----	7-15
40X1382	MPF feed shaft kit -----	7-15
40X1383	X860de/X862de/X864de IPDS and SCS/TNE card -----	7-94
40X1386	Bushing 6 mm (transport roll rear) -----	7-17
40X1387	Transport roll kit -----	7-17
40X1388	Bushing 8 mm -----	7-17
40X1389	PC cartridge interlock switch screw -----	7-25
40X1390	PC cartridge interlock switch kit -----	7-25, 7-89
40X1391	Exit 1 static eliminator -----	7-29
40X1392	Exit 1 media exit guide kit -----	7-29
40X1527	USB, Smart card, and LED cable assembly -----	7-37
40X2200	Scanner top rear cover -----	7-37
40X2201	Scanner right cover -----	7-37
40X2205	Scanner left cover -----	7-37
40X2206	Flatbed scanner unit assembly -----	7-37, 7-47



40X2207	Scanner PS cable assembly	7-37
40X2208	Large platen glass	7-39
40X2209	Large platen glass retainer cover	7-39
40X2210	Scanner controller card assembly	7-39
40X2211	CCD ribbon cable assembly	7-39
40X2212	Scanner main cable assembly	7-39
40X2213	Small platen glass front retainer	7-39
40X2214	Small platen glass	7-39
40X2215	Small platen glass rear retainer	7-39
40X2216	Scanner filter	7-39
40X2217	Card mounting screws	7-39
40X2218	Large platen retainer	7-39
40X2219	Scanner interface cable assembly	7-37
40X2220	CCD card/lens assembly	7-41
40X2222	Switch (platen interlock)	7-41
40X2223	Sensor (ADF angle)	7-41
40X2223	Sensor (Scanner HP)	7-41
40X2224	ADF angle actuator assembly	7-41
40X2225	Scanner PS card assembly	7-41
40X2226	Scanner drive belt	7-43
40X2228	Scanner drive motor assembly	7-43
40X2229	Scanner drive motor tension spring	7-43
40X2231	Scanner cooling fan	7-43
40X2232	Scanner 2nd/3rd mirror	7-45
40X2233	Mirror retaining clip	7-45
40X2234	Scanner 1st mirror	7-45
40X2236	Exposure lamp PS ribbon cable	7-45
40X2237	Exposure lamp	7-45
40X2238	ADF mounting screw	7-47
40X2239	Platen cushion	7-47
40X2240	ADF unit assembly (complete unit)	7-47
40X2242	Document tray assembly (this comes assembled)	7-49, 7-63
40X2243	Document tray hinge	7-49
40X2244	ADF rear cover	7-49
40X2245	ADF front cover assembly	7-49
40X2246	Small hook/loop strip	7-49
40X2247	Large hook/loop strip	7-51
40X2248	Solenoid/interlock cable assembly	7-51
40X2256	Inverter lever	7-53
40X2257	ADF left hinge	7-51
40X2258	ADF right hinge	7-51
40X2259	ADF interface cable assembly	7-51
40X2260	ADF controller card assembly	7-51
40X2262	ADF left cover assembly (this comes assembled)	7-53
40X2264	Document set/sheet through cable assembly	7-53
40X2265	Registration motor cable assembly	7-53
40X2266	ADF feed motor cable assembly	7-53
40X2267	Left cover hinge retainer	7-53
40X2269	Stud screw	7-53
40X2270	Registration main drive belt	7-53
40X2271	Inverter solenoid assembly	7-53
40X2272	Document set LED	7-53
40X2273	Separation roll guide assembly (this comes assembled)	7-53
40X2274	ADF left cover handle	7-55
40X2275	Sheet through actuator	7-55
40X2276	Left cover pinch roll assembly (this comes assembled)	7-55
40X2277	Pick roll position motor assembly	7-55
40X2278	Pick roll position cable assembly	7-55
40X2279	Document set front stop	7-55

Previous



Next



Go Back

40X2280	ADF feed/pick roll assembly (this comes assembled) -----	7-55
40X2283	Document set actuator -----	7-55
40X2286	Switch (ADF left cover interlock) -----	7-57
40X2288	ADF main feed cable assembly -----	7-57
40X2289	Inverter gate -----	7-57
40X2290	Actuator/media guide assembly (this comes assembled) -----	7-57
40X2291	Plastic ring clip 6 mm -----	7-55
40X2291	Plastic ring clip kit -----	7-59
40X2294	Front left cover -----	7-3
40X2295	Rear interior cover -----	7-3
40X2296	Front interior cover -----	7-3
40X2297	Left upper cover -----	7-3
40X2299	Rear corner cover -----	7-5
40X2300	Rear motor cover -----	7-5
40X2301	Rear Upper cover -----	7-5
40X2302	Rear lower cap cover -----	7-5
40X2303	GFI label -----	7-5
40X2304	Rear RIP card cover -----	7-5
40X2305	Controller box lower cover -----	7-5
40X2306	Controller box side cover -----	7-5
40X2309	MPF/transport drive motor assembly -----	7-31
40X2310	MPF/transport drive gear 19/29T -----	7-31
40X2311	LVPS cooling fan -----	7-33
40X2312	Universal LVPS card assembly -----	7-33
40X2313	AC power input socket kit -----	7-33, 7-90
40X2314	AC drive card assembly 110 V -----	7-33
40X2315	AC drive card assembly 220 V -----	7-33
40X2316	Printer engine card assembly X860e -----	7-33
40X2317	Printhead cable assembly -----	7-91
40X2318	Multi connector cable assembly 3 -----	7-89, 7-90
40X2319	Main switch cable assembly -----	7-88
40X2320	Sensor (platen length APS 1) -----	7-41
40X2320	Sensor (platen length APS 2) -----	7-41
40X2321	Left cover media guide -----	7-55
40X2323	Media scan guide -----	7-57
40X2324	Media scan guide spring -----	7-57
40X2325	ADF registration motor -----	7-61
40X2326	Tension spring -----	7-61
40X2327	ADF feed motor assembly (this comes assembled) -----	7-53
40X2327	ADF feed motor assembly (this comes complete) -----	7-61
40X2328	Sensor (document tray length 1) -----	7-63
40X2328	Sensor (document tray length 2) -----	7-63
40X2330	Spring -----	7-51, 7-55
40X2333	ADF registration roll assembly -----	7-59
40X2334	ADF feed-out roll assembly -----	7-59
40X2335	ADF exit roll assembly -----	7-59
40X2336	ADF transport roll assembly -----	7-59
40X2337	Bearing 8 mm -----	7-59
40X2338	Bushing 6 mm -----	7-59
40X2339	Bushing 8 mm -----	7-59
40X2340	Registration roll drive pulley 28T -----	7-59
40X2341	Feed-out roll drive pulley 25/28T -----	7-59
40X2342	Exit roll drive pulley 20T -----	7-59
40X2343	Transport roll drive gear 20T -----	7-59
40X2344	Manual feed drive pulley -----	7-59
40X2345	Manual feed drive belt -----	7-59
40X2346	Manual feed drive wheel -----	7-59
40X2347	Exit roll drive belt -----	7-59
40X2348	Tension spring -----	7-59



40X2349	Registration main drive pulley 21/54T	7-59
40X2350	Registration secondary drive belt	7-59
40X2351	Retainer spring	7-59
40X2352	Exposure lamp PS card insulator	7-45
40X2353	Exposure lamp PS card assembly	7-45
40X2354	Registration pad	7-51
40X2355	Registration pad cover	7-51
40X2366	Top cover assembly	7-3
40X2367	Multi connector cable assembly 2	7-91
40X2368	Fuser AC cable assembly	7-88
40X2371	ADF registration pinch/frame assembly	7-51
40X2372	Transport roll drive gear 28T	7-31
40X2373	MPF drive gear 18T	7-31
40X2374	Transport motor support busing	7-31
40X2377	Maintenance kit (100 V)	7-94
40X2377	Maintenance kit, 100 V	6-2
40X2378	Fuser assembly 100 V (this comes assembled)	7-27
40X2379	Printer engine card assembly X862e	7-33
40X2380	Printer engine card assembly X864e	7-33
40X2381	Document set rear stop	7-55
40X2382	TVOC filter assembly	7-5
40X2383	ADF main feed assembly (this comes assembled)	7-53, 7-59
40X2384	Exit 1 media shift assembly (this comes assembled)	7-29
40X2385	Printer front door assembly	7-3
40X2386	Rear lower cover (110 V)	7-5
40X2387	Rear lower cover (220 V)	7-5
40X2388	Switch (main power)	7-33
40X2389	Output guide	7-29, 7-87
40X2503	Fuser assembly 110 V (this comes assembled)	7-27
40X2504	Fuser assembly 220 V (this comes assembled)	7-27
40X2734	Maintenance kit (ADF)	7-94
40X2734	Maintenance kit, ADF	6-2
40X2735	2TM/TTM controller card assembly	7-79
40X3664	2TM/TTM drive motor	7-79
40X3666	TTM main cable assembly	7-79
40X3688	Sensor (ADF inverter)	7-57
40X3688	Sensor (ADF pre-registration)	7-57
40X3688	Sensor (ADF width APS 3)	7-57
40X3688	Sensor (ADF width APS2)	7-57
40X3688	Sensor (ADF with APS1)	7-57
40X3688	Sensor (document set)	7-59
40X3688	Sensor (document tray width 1)	7-63
40X3688	Sensor (document tray width 2)	7-63
40X3688	Sensor (document tray width 3)	7-63
40X3688	Sensor (pick roll position HP)	7-55
40X3688	Sensor (sheet through)	7-61
40X4596	Power cord—Brazil 8ft straight	7-93
40X4602	Smart card 3121	7-94
40X4603	Smart card 5121	7-94
40X4604	Smart card 5125	7-94
40X4819	RS232C serial interface	7-94
40X4821	Fax interface card assembly	7-35
40X4822	80 GB hard drive assembly	7-35
40X4823	Parallel 1284-B interface card	7-94
40X4827	MarkNet™ N8130 Fiber Ethernet 100BaseFX, 10 BaseFL	7-94
40X5301	256MB DDR2-DRAM	7-94
40X5302	512MB DDR2-DRAM	7-94
40X5303	1024MB DDR2-DRAM	7-94
40X5316	Hard drive data cable assembly	7-35

Previous



Next



Go Back

7500-432, -632, and -832

40X5554	Operator panel cover assembly w/ Smart card slot	7-37
40X5555	Operator panel assembly (universal)	7-37
40X5556	Operator panel controller card	7-37
40X5557	Operator panel user touch screen	7-37
40X5559	Operator panel cable	7-37
40X5568	Operator panel bezel (X860de, X862de, and X864de)	7-37
40X5704	256MB DDR2-DRAM	7-94
40X5952	Lexmark PrintCryption card assembly	7-94
40X5969	Korean font card	7-94
40X5970	Simplified Chinese font card	7-94
40X5971	Traditional Chinese font card	7-94
40X5972	Japanese font card	7-94
40X5985	Sensor (fuser exit) assembly with actuator	7-27
40X6000	MPF feed unit assembly	7-13
40X6091	NVRAM card	7-35
40X6380	RIP card assembly	7-35

Previous



Next



Go Back

Print defects guide

Match a set of repeating defects on a print job to the marks on one of the vertical lines. The line that best matches the defects on the print job indicates which particular part is causing the defect.

If the defect appears on the printed side of a single-sided print job, change the **photoconductor kit**.

If the defect appears on the back, change the **fuser**.

94.2 mm
(3.71 in.)

Change the
photoconductor kit.

44 mm
(1.73 in.)

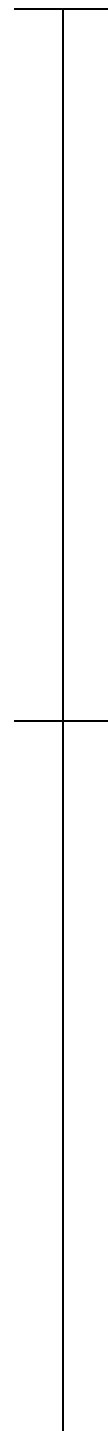
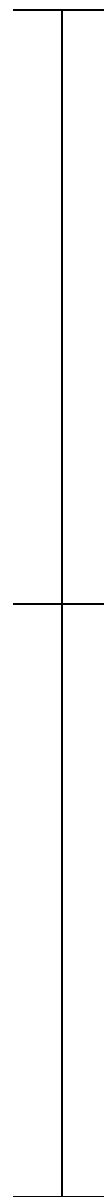
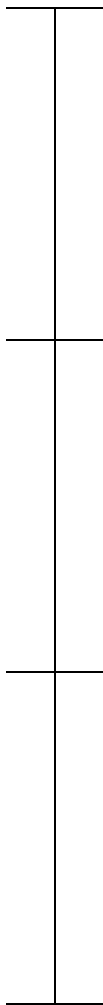
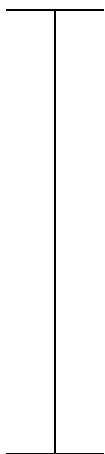
Change the
fuser.

78.5 mm
(3.09 in.)

For example, the distance between these two marks represents a repeating defect that occurs every 44 mm (1.73 in.), which means the photoconductor kit needs replacing.

Change the
transfer roller.

58.7 mm
(2.31 in.)



7500 MFP Service Manual

