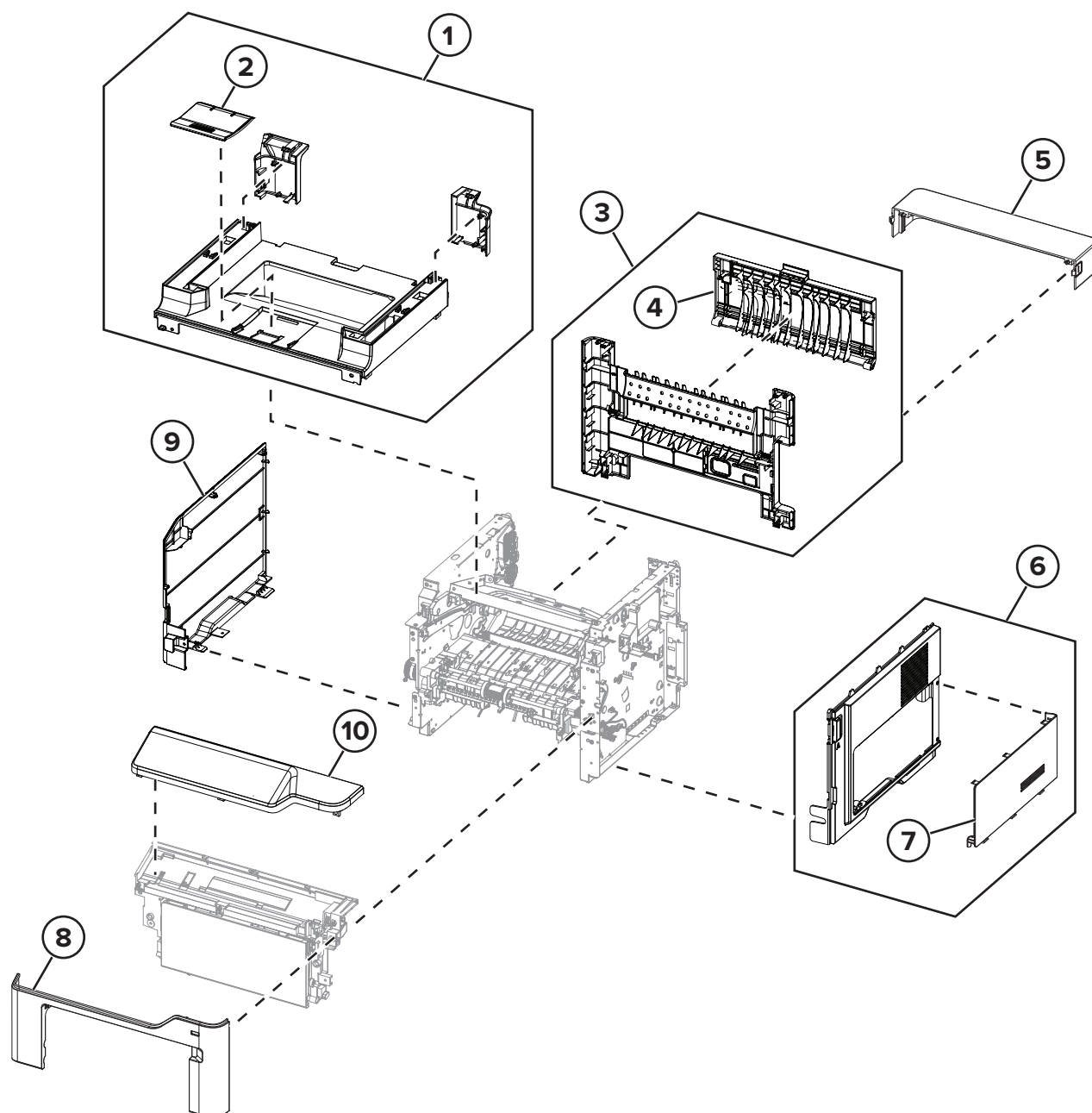


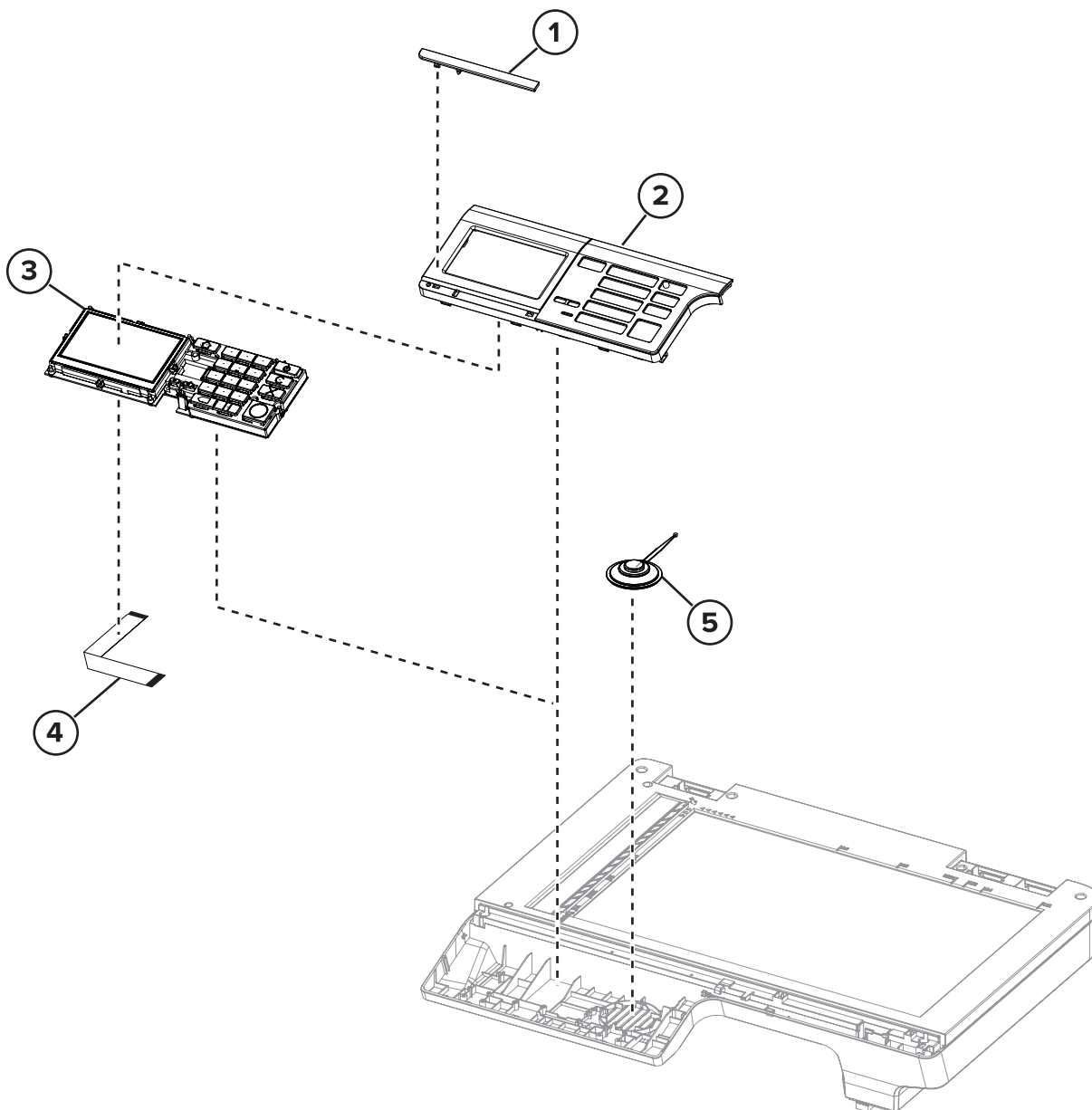
Assembly 1: Covers



Assembly 1: Covers

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
1	41X1341	1	1	Top cover (MX321 and MX421)	“Top cover removal” on page 276
1	41X1342	1	1	Top cover (MX521 and MX522)	“Top cover removal” on page 276
2	40X9075	1	1	Output extender	--
3	41X1169	1	1	Rear door and cover	--
4	41X2263	1	1	Rear access door	--
5	40X8520	1	1	Dust cover	--
6	41X1165	1	1	Right cover (MX321 and MX421)	“Right cover removal” on page 223
6	41X2272	1	1	Right cover (MX521 and MX522)	“Right cover removal” on page 223
7	41X1233	1	1	Right access cover	--
8	41X1163	1	1	Nameplate (MX321)	“Nameplate removal” on page 239
8	41X2273	1	1	Nameplate (MX421, MX521, and MX522)	“Nameplate removal” on page 239
9	41X1167	1	1	Left cover	“Left cover removal” on page 209
10	41X1355	1	1	Top access cover	“Top access cover removal” on page 240

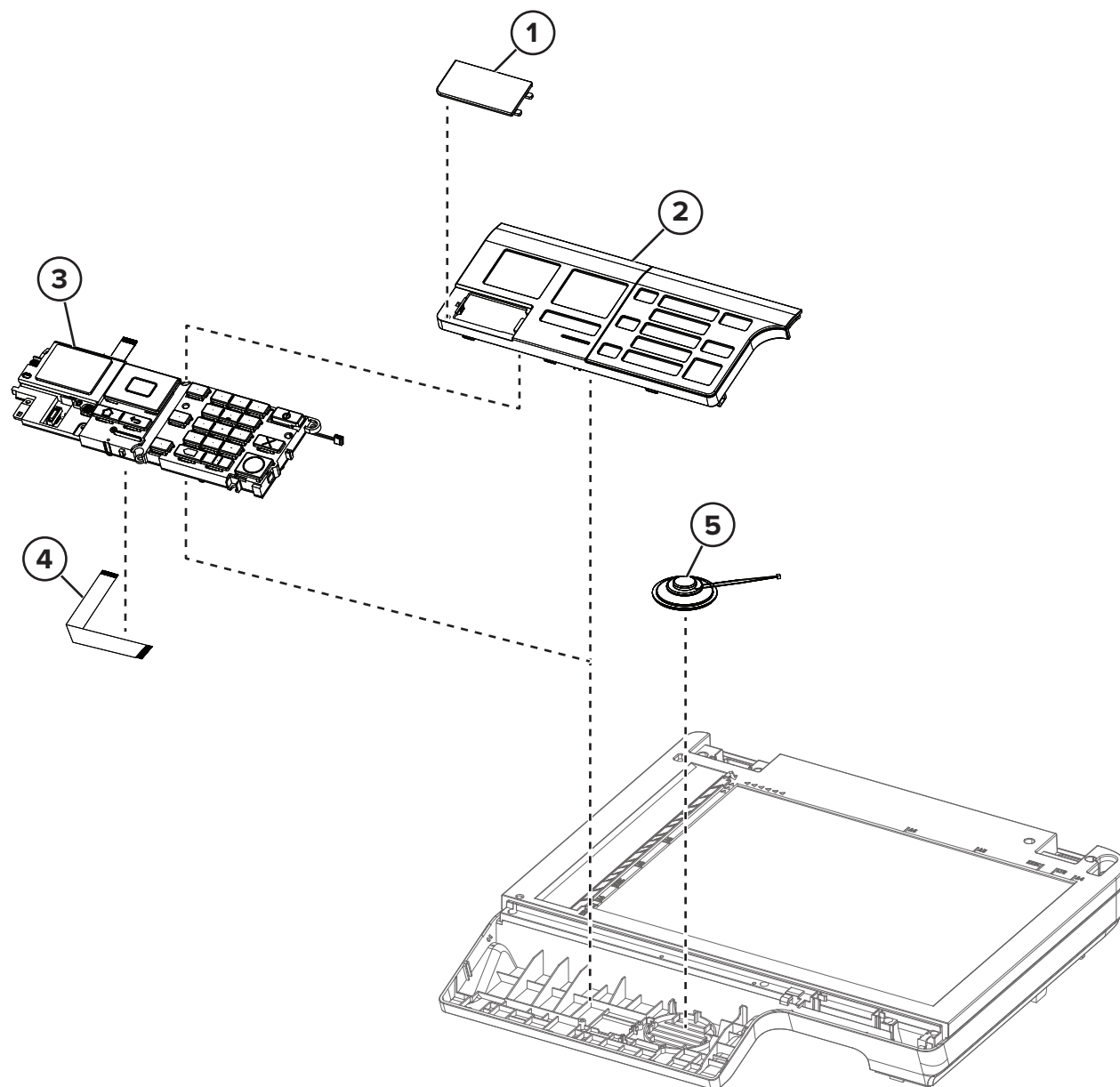
Assembly 2: Control panel (MX421, MX521, and MX522)



Assembly 2: Control panel (MX421, MX521, and MX522)

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
1	41X2540	1	1	Bezel (MX421)	--
1	41X2500	1	1	Bezel (MX521)	--
1	41X2445	1	1	Bezel (MX522)	--
2	41X1353	1	1	Control panel cover (MX421, MX521, and MX522)	“Control panel (MX421, MX521, and MX522) cover and board removal” on page 248
3	41X1359	1	1	Control panel (MX421, MX521, and MX522)	--
4	41X2524	1	1	Control panel flat cable (MX421)	--
4	41X2525	1	1	Control panel flat cable (MX521 and MX522)	--
5	41X2529	1	1	Speaker	“Speaker (MX421, MX521, and MX522) removal” on page 243

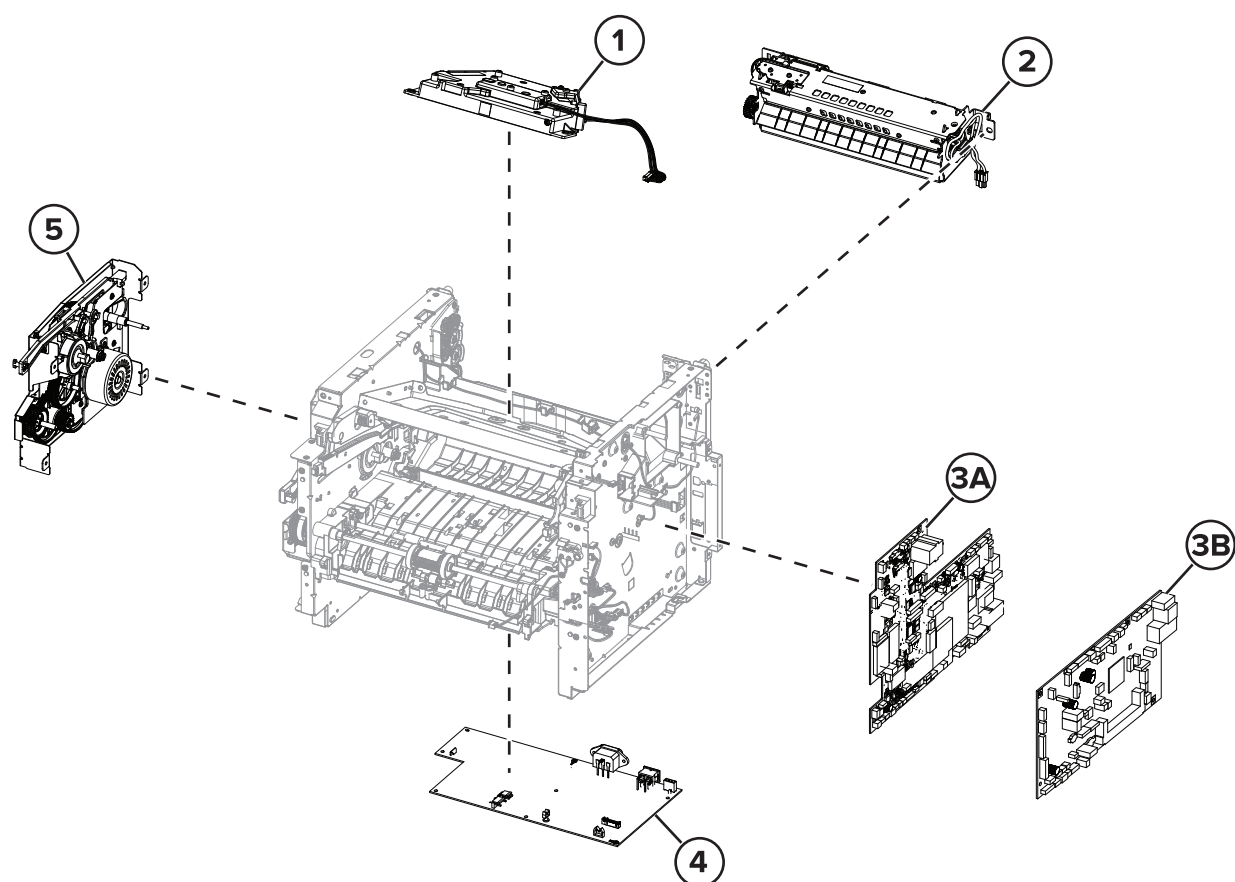
Assembly 3: Control panel (MX321)



Assembly 3: Control panel (MX321)

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
1	41X1346	1	1	Bezel (MX321)	“Bezel (MX321) removal” on page 241
2	41X1352	1	1	Control panel cover (MX321)	“Control panel (MX321) cover and board removal” on page 247
3	41X1368	1	1	Control panel (MX321)	--
4	41X2524	1	1	Control panel flat cable (MX321)	--
5	41X2529	1	1	Speaker	“Speaker (MX321) removal” on page 242

Assembly 4: Electronics 1



Assembly 4: Electronics 1

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
1	41X1185	1	1	Printhead	“Printhead removal” on page 279
2	41X1178	1	1	Fuser, 110V	“Fuser removal” on page 275
2	41X1179	1	1	Fuser, 220V	“Fuser removal” on page 275
2	41X1180	1	1	Fuser, 100V	“Fuser removal” on page 275
3A	41X1360	1	1	Controller board (MX321) - This part is the original board for old printers (8th digit of printer serial number=0, or 1). - This part can be installed on new printers (8th digit of printer serial number$\geq$2). Firmware update is required.	“Controller board removal” on page 230
3B	41X2513	1	1	Controller board (MX321)* - This part is the original board for new printers (8th digit of printer serial number$\geq$2). - This part can be installed on old printers (8th digit of printer serial number=0, or 1). Conversion kit (41X2518) parts also need to be installed, see <i>*note</i>.	“Controller board removal” on page 230
3A	41X1361	1	1	Controller board (MX421 and MX521) - This part is the original board for old printers (8th digit of printer serial number=0, or 1). - This part can be installed on new printers (8th digit of printer serial number$\geq$2). Firmware update is required.	“Controller board removal” on page 230
3B	41X2514	1	1	Controller board (MX421 and MX521)* - This part is the original board for new printers (8th digit of printer serial number$\geq$2). - This part can be installed on old printers (8th digit of printer serial number=0, or 1). Conversion kit (41X2518) parts also need to be installed, see <i>*note</i>.	“Controller board removal” on page 230

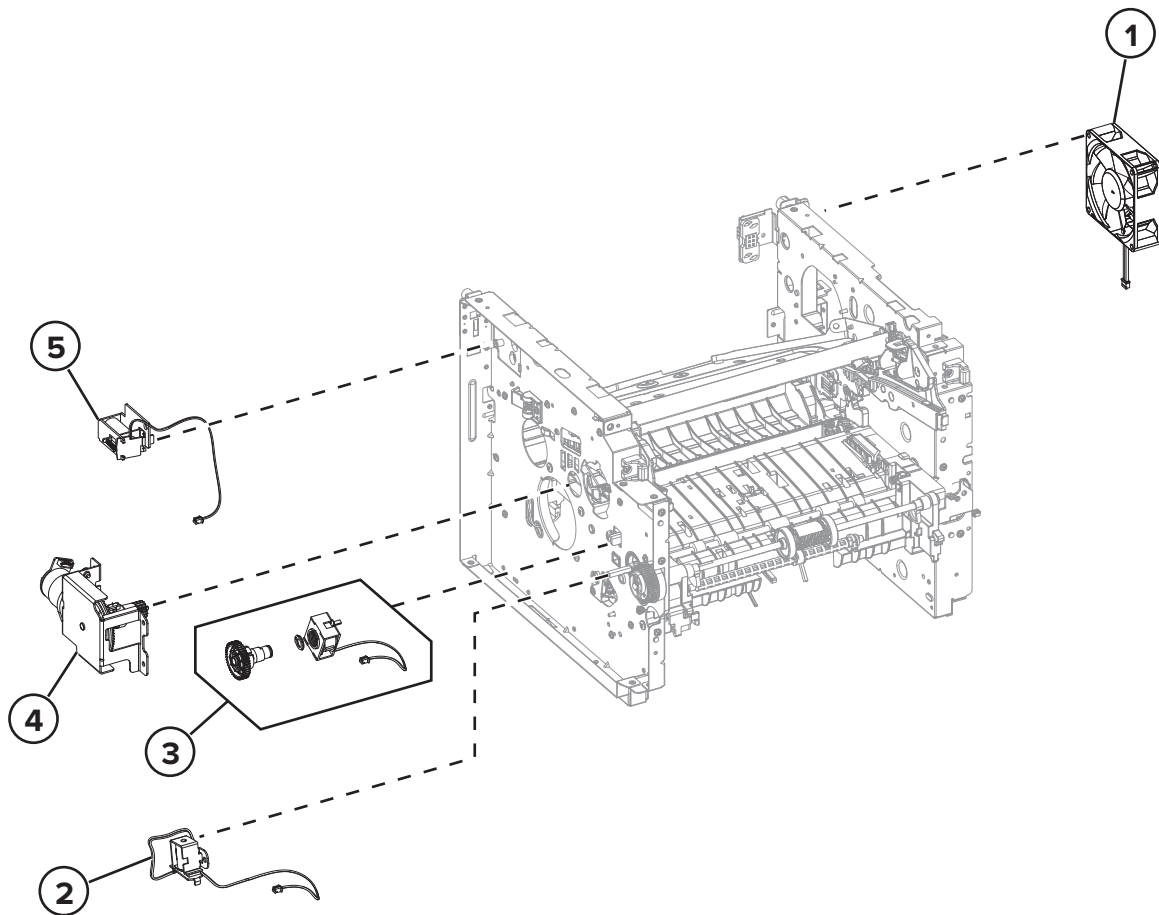
Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
3A	41X1370	1	1	Controller board (MX522)	“Controller board removal” on page 230
4	41X1201	1	1	Power supply, 100V/110V	“Power supply removal” on page 260
4	41X1202	1	1	Power supply, 220V	“Power supply removal” on page 260
5	41X1224	1	1	Main drive gearbox	“Main drive gearbox removal” on page 211
NS	41X2518	1	1	Cable conversion kit • 41X2528—ADF cable (MX321 and MX421) • 41X2526—Control panel flat cable (MS622) • 41X2524—Control panel flat cable (MX421) • 41X2525—Control panel flat cable (MX521) • 41X2530—Flatbed home sensor extension cable • 41X2529—Speaker	--

***Note when replacing an L-shaped board (3A) with a rectangular board (3B):**

The following parts from the cable conversion kit (41X2518) also need to be installed:

- Control panel flat cable
- Speaker
- Flatbed home sensor extension cable
- ADF cable (not needed for MX521)

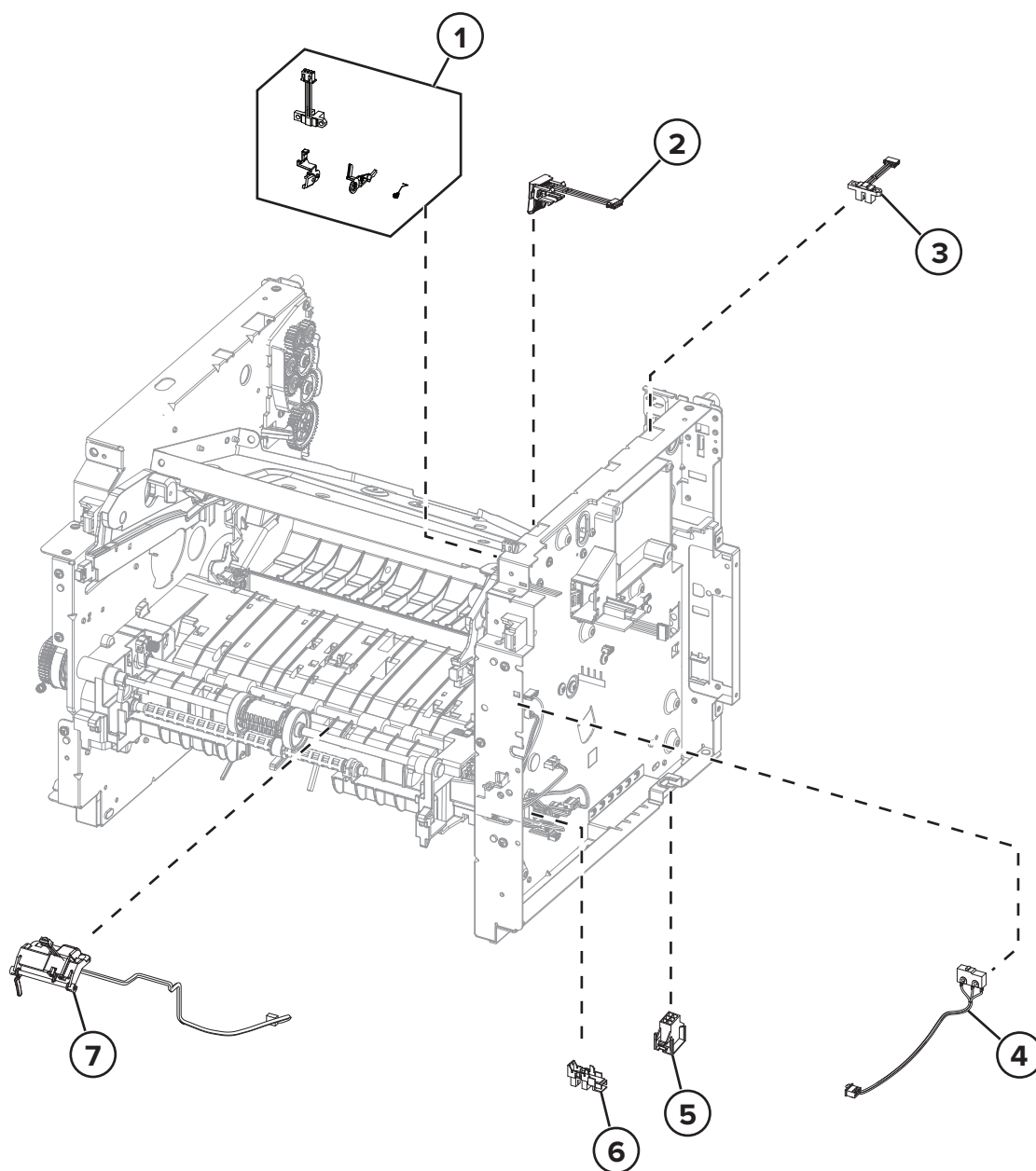
Assembly 5: Electronics 2



Assembly 5: Electronics 2

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
1	41X2259	1	1	Cooling fan	“Cooling fan removal” on page 227
2	41X1213	1	1	MPF solenoid	“MPF solenoid removal” on page 219
3	41X2391	1	1	Pick roller clutch	“Pick roller clutch removal” on page 221
4	41X1237	1	1	Motor (cartridge)	“Cartridge gearbox removal” on page 220
5	41X1214	1	1	Reverse solenoid	“Reverse solenoid removal” on page 216

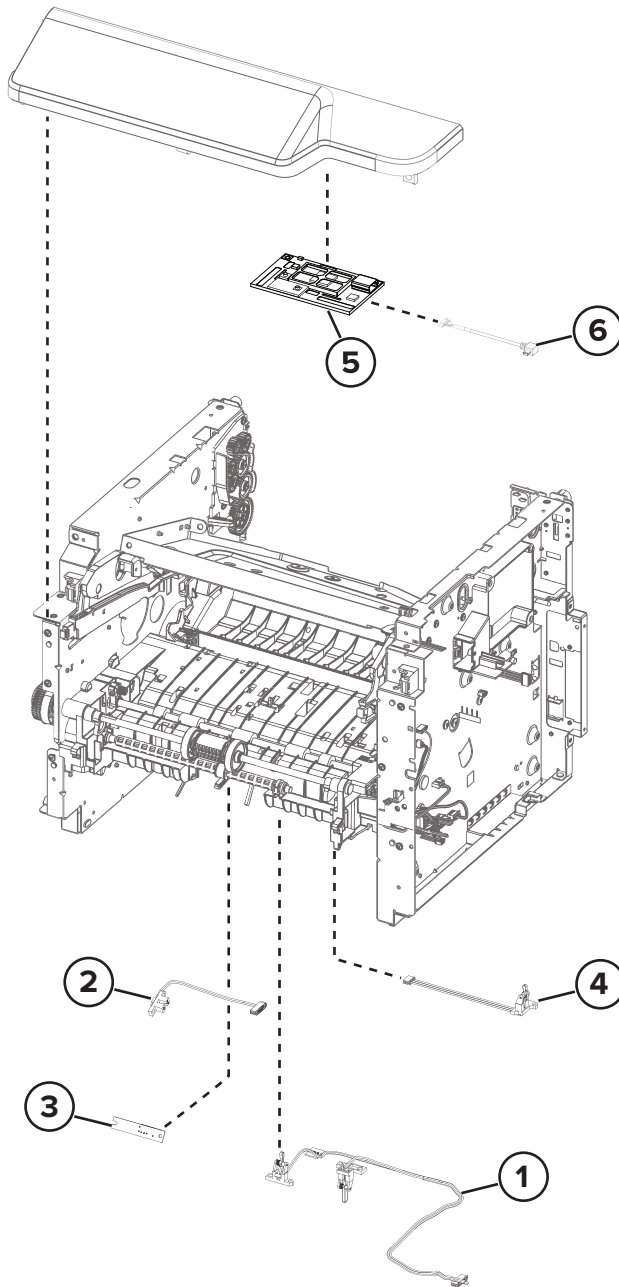
Assembly 6: Electronics 3



Assembly 6: Electronics 3

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
1	41X1988	1	1	Sensor (cartridge barrel)	“Cartridge barrel shutter sensor kit removal” on page 236
2	41X1162	1	1	Toner cartridge smart chip contact	“Toner cartridge smart chip contact removal” on page 233
3	41X2260	1	1	Sensor (bin full)	--
4	41X1209	1	1	Sensor (front door)	“Sensor (front door) removal” on page 251
5	41X1236	1	1	Interconnect cable	“Interconnect cable removal” on page 225
6	41X1238	1	1	Sensor (tray present)	“Sensor (tray present) removal” on page 227
7	41X1210	1	1	Sensor (MPF paper present)	“Sensor (MPF paper present) removal” on page 257

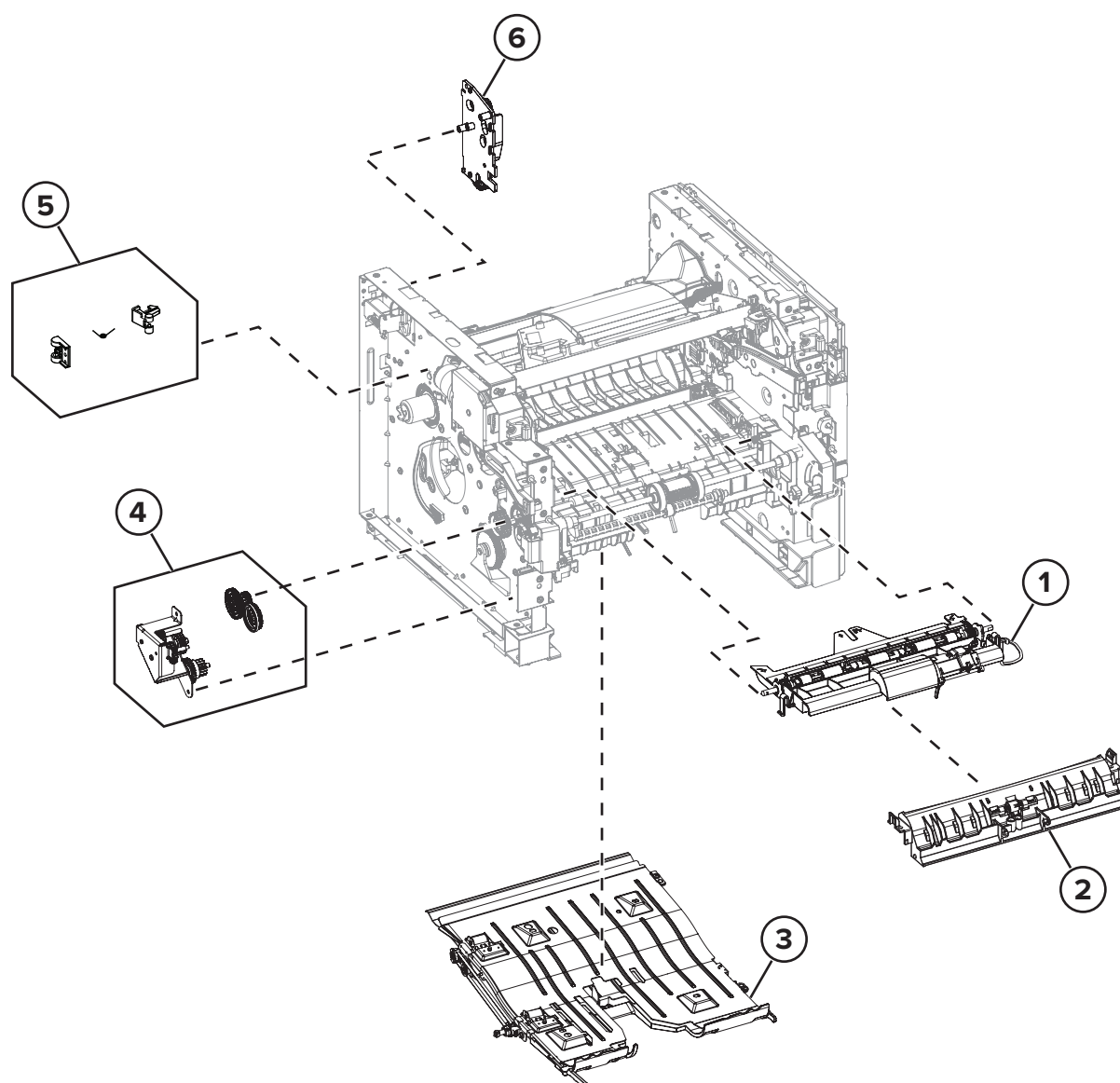
Assembly 7: Electronics 4



Assembly 7: Electronics 4

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
1	41X1206	1	1	Sensor (duplex and input)	“Sensors (duplex and input) removal” on page 264
2	41X1240	1	1	Sensor (trailing edge)	“Sensor (trailing edge) removal” on page 267
3	40X8046	1	1	Sensor (toner density)	“Sensor (toner density) removal” on page 265
4	41X1241	1	1	Sensor (narrow media)	--
5	41X1873	1	1	Wireless module	--
6	41X2270	1	1	Wireless module cable	--

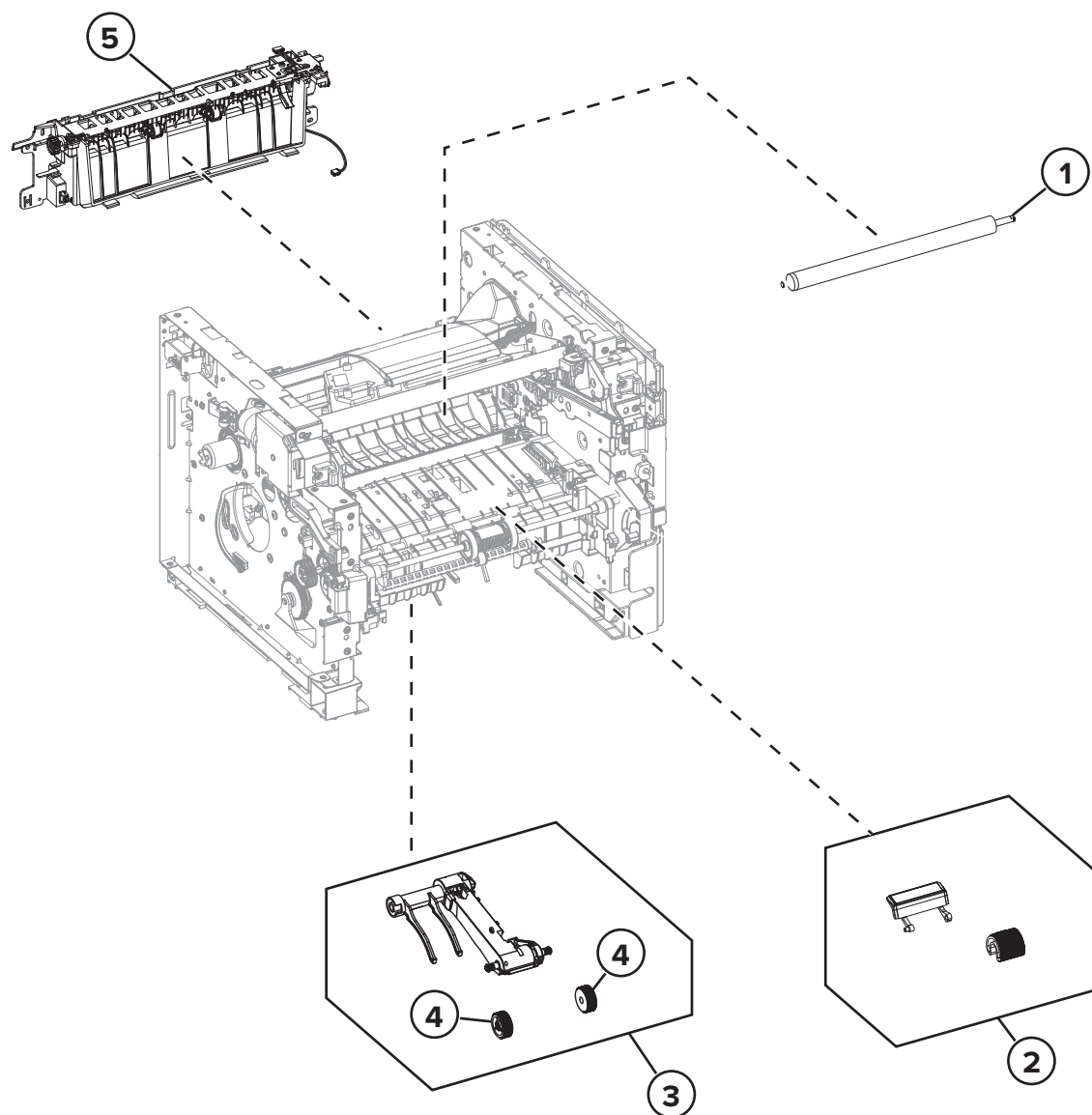
Assembly 8: Paper transport 1



Assembly 8: Paper transport 1

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
1	41X1183	1	1	Jam access cover	--
2	41X1184	1	1	Front input guide	“Front input guide removal” on page 258
3	41X1176	1	1	Duplex assembly	“Duplex assembly removal” on page 262
4	41X1182	1	1	MPF gearbox (MX521 and MX522)	“MPF gearbox removal” on page 212
4	41X2271	1	1	MPF gearbox (MX321 and MX421)	“MPF gearbox removal” on page 212
5	41X2255	1	1	Fuser actuator	“Fuser actuator removal” on page 215
6	41X2268	1	1	Redrive gear plate	--

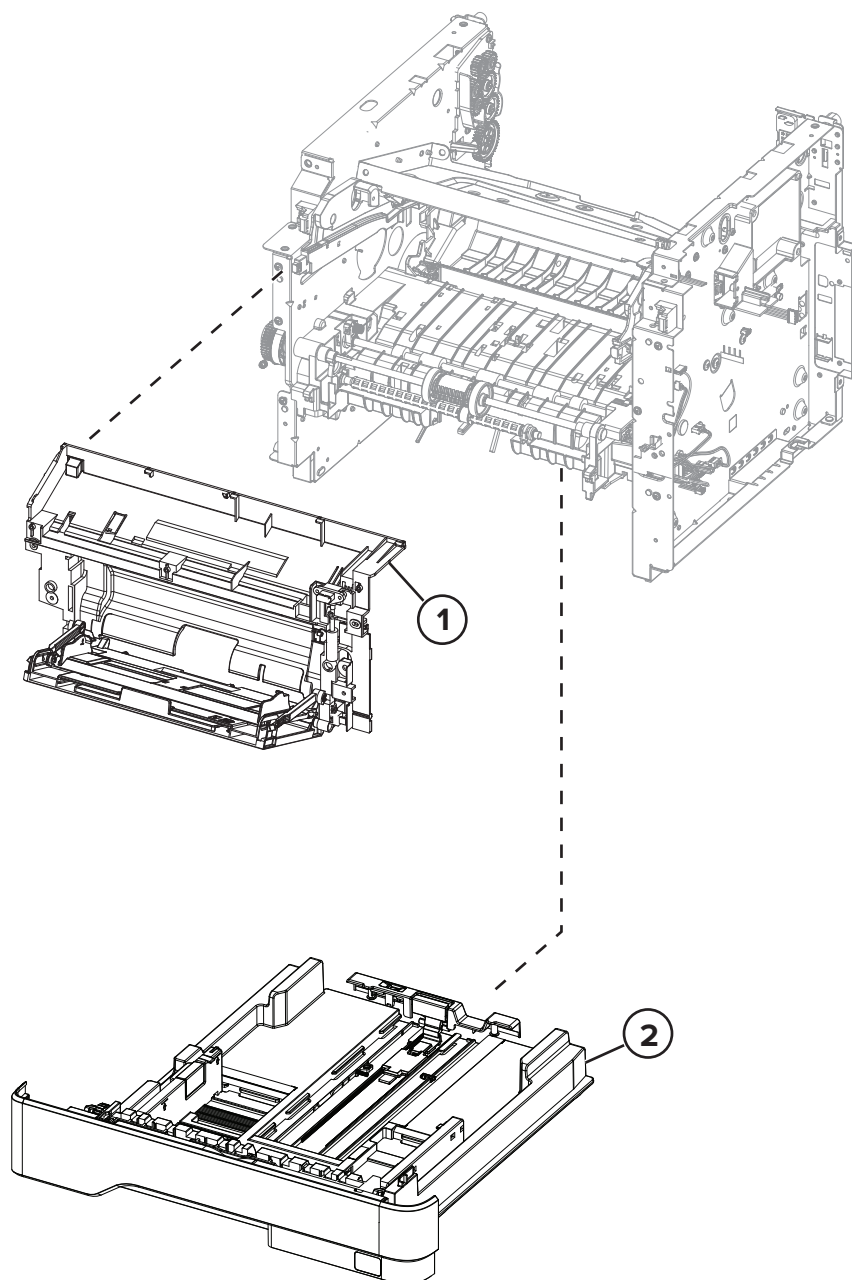
Assembly 9: Paper transport 2



Assembly 9: Paper transport 2

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
1	40X8393	1	1	Transfer roller	“Transfer roller removal” on page 250
2	41X1197	1	1	MPF pick roller and separator pad	“MPF pick roller and separator pad removal” on page 253
3	41X1223	1	1	Pick roller assembly	“Pick roller assembly removal” on page 268
4	41X0918	2	2	Pick tire	--
5	41X1349	1	1	Redrive assembly	--

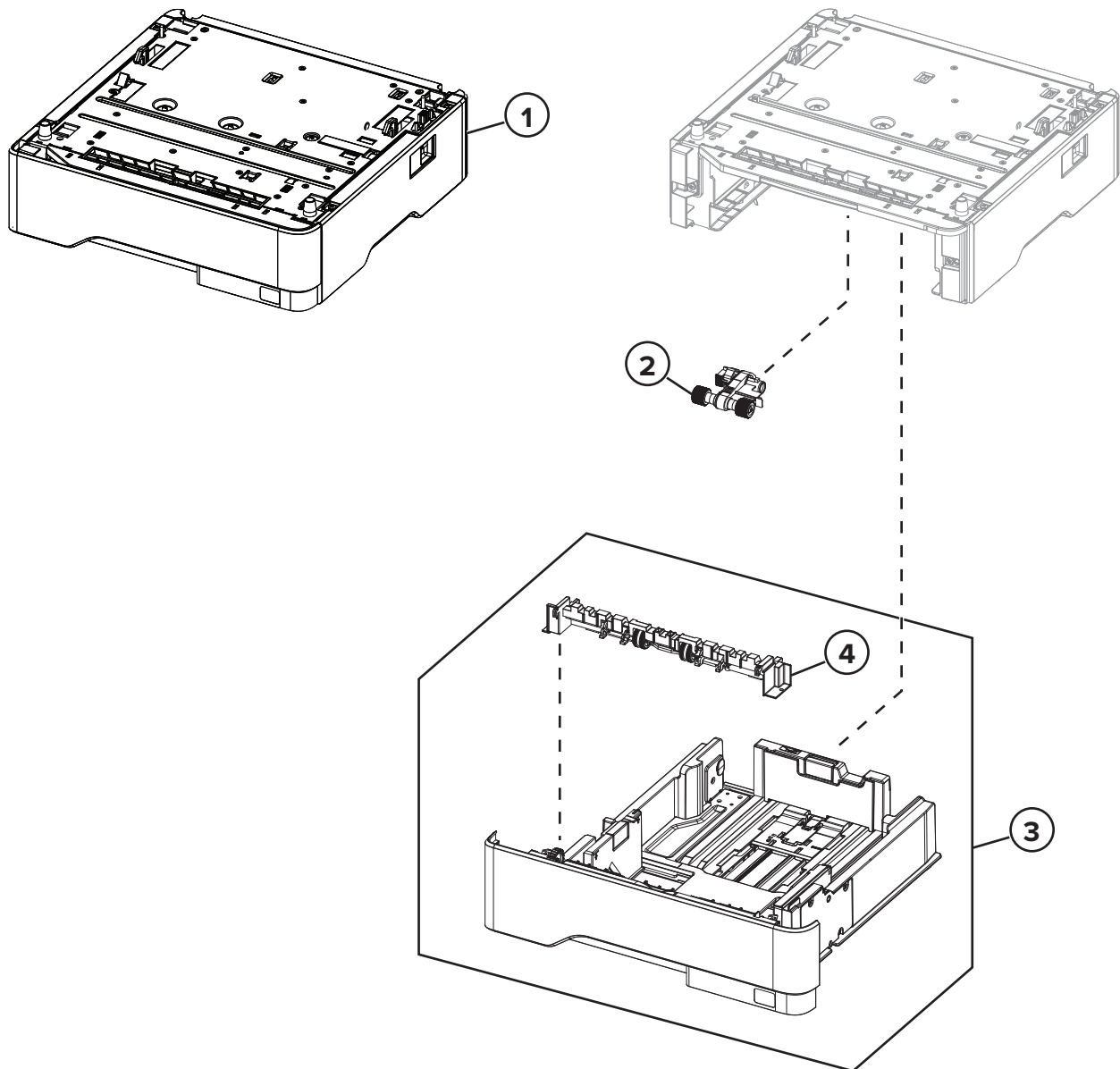
Assembly 10: MPF and standard tray



Assembly 10: MPF and standard tray

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
1	41X1218	1	1	MPF with front access cover (MX321 and MX522)	“MPF with front access cover removal” on page 256
1	41X1366	1	1	MPF with front access cover (MX421 and MX521)	“MPF with front access cover removal” on page 256
2	41X2125	1	1	Standard 250-sheet tray insert (MX321 and MX421)	--
2	41X1220	1	1	Standard 250-sheet tray insert (MX521 and MX522)	--

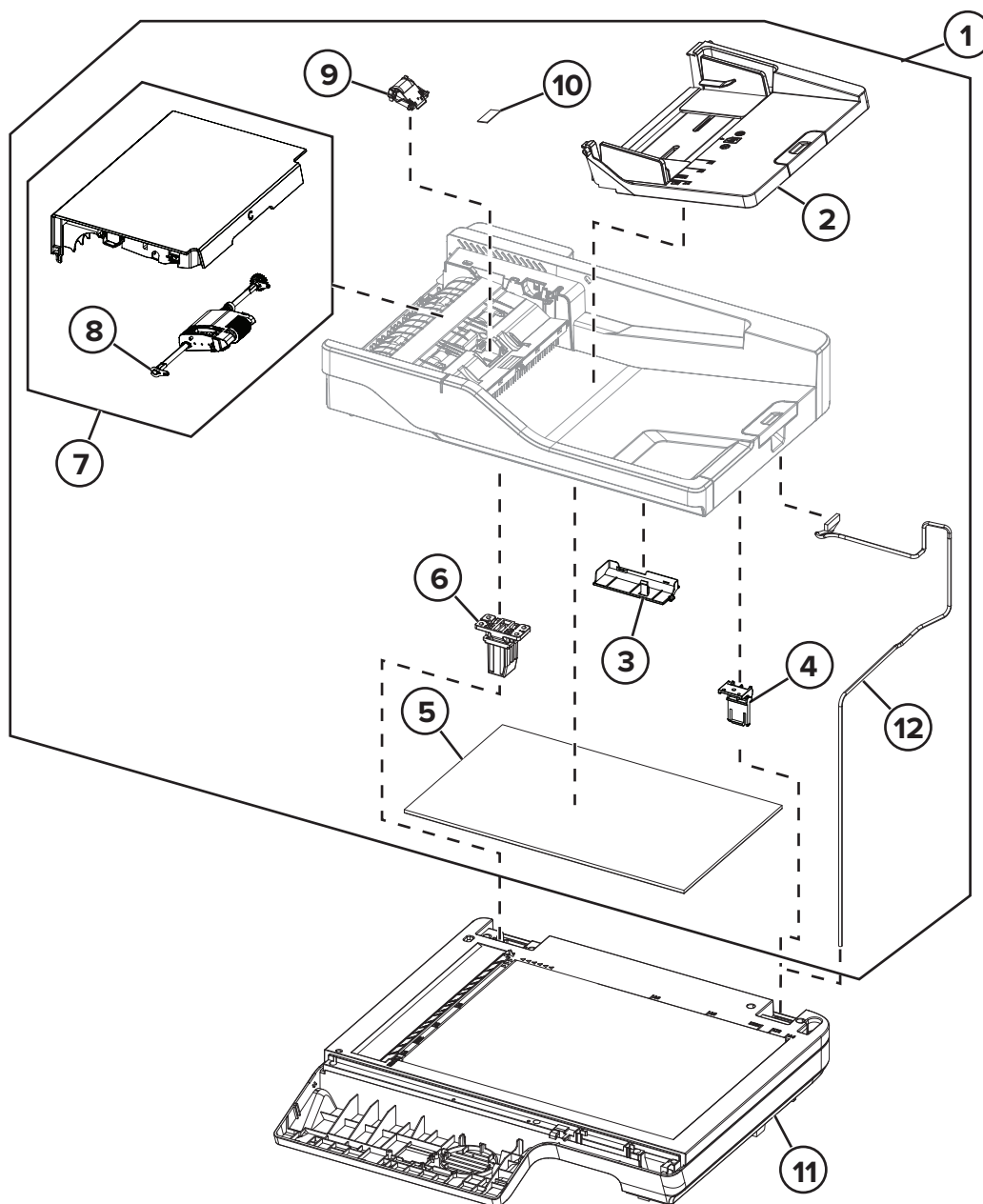
Assembly 11: Optional trays



Assembly 11: Optional trays

Asm-index	P/N	Units/opt	Units/FRU	Description	Removal procedure
1	41X1216	1	1	Optional 550-sheet tray	--
1	41X1217	1	1	Optional 250-sheet tray	--
2	41X1239	1	1	Pick roller	--
3	41X1222	1	1	550-sheet tray insert (optional tray)	--
3	41X1221	1	1	250-sheet tray insert (optional tray)	--
4	41X1212	1	1	Separator roller assembly	“Separator roller assembly removal” on page 300

Assembly 12: Imaging (MX321, MX421, and MX521) 1

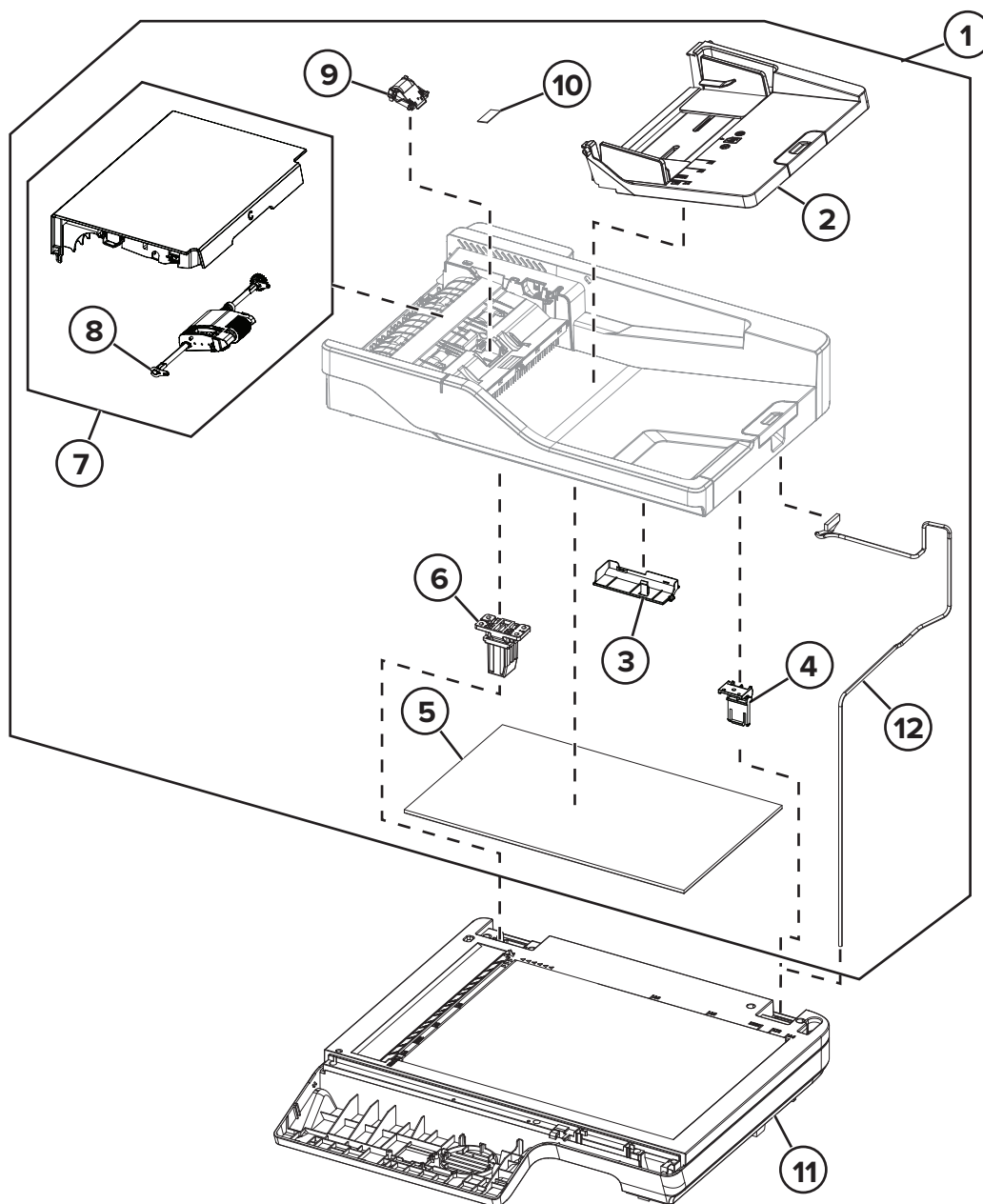


Assembly 12: Imaging (MX321, MX421, and MX521) 1

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
1	41X1327	1	1	ADF assembly (MX321) - This part is the original ADF for old printers (8th digit of printer serial number=0, or 1). - This part can be installed on new printers (8th digit of printer serial number$\geq$2). Since the ADF cable is short, the longer ADF cable (41X2528) is also needed.	“ADF assembly removal” on page 285
1	41X2519	1	1	ADF assembly (MX321) - This part is the original ADF for new printers (8th digit of printer serial number$\geq$2). - This part can be installed on old printers (8th digit of printer serial number=0, or 1). No need to install additional parts.	“ADF assembly removal” on page 285
1	41X2218	1	1	ADF assembly (MX421) - This part is the original ADF for old printers (8th digit of printer serial number=0, or 1). - This part can be installed on new printers (8th digit of printer serial number$\geq$2). Since the ADF cable is short, the longer ADF cable (41X2528) is also needed.	“ADF assembly removal” on page 285
1	41X2520	1	1	ADF assembly (MX421) - This part is the original ADF for new printers (8th digit of printer serial number$\geq$2). - This part can be installed on old printers (8th digit of printer serial number=0, or 1). No need to install additional parts.	“ADF assembly removal” on page 285
1	41X2219	1	1	ADF assembly (MX521)	“ADF assembly removal” on page 285
2	41X1333	1	1	ADF tray (MX321, MX421, and MX521)	“ADF tray removal” on page 283
3	41X2220	1	1	ADF cable cover (MX321, MX421, and MX521)	--
4	41X1320	1	1	ADF right hinge (MX321 and MX421)	“ADF hinge removal” on page 286

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
4	41X1321	1	1	ADF right hinge (MX521)	“ADF hinge removal” on page 286
5	41X1323	1	1	ADF cushion (MX321 and MX421)	--
5	41X1324	1	1	ADF cushion (MX521)	--
6	40X8735	1	1	ADF left hinge (MX321, MX421, and MX521)	“ADF hinge removal” on page 286

Assembly 13: Imaging (MX321, MX421, and MX521) 2

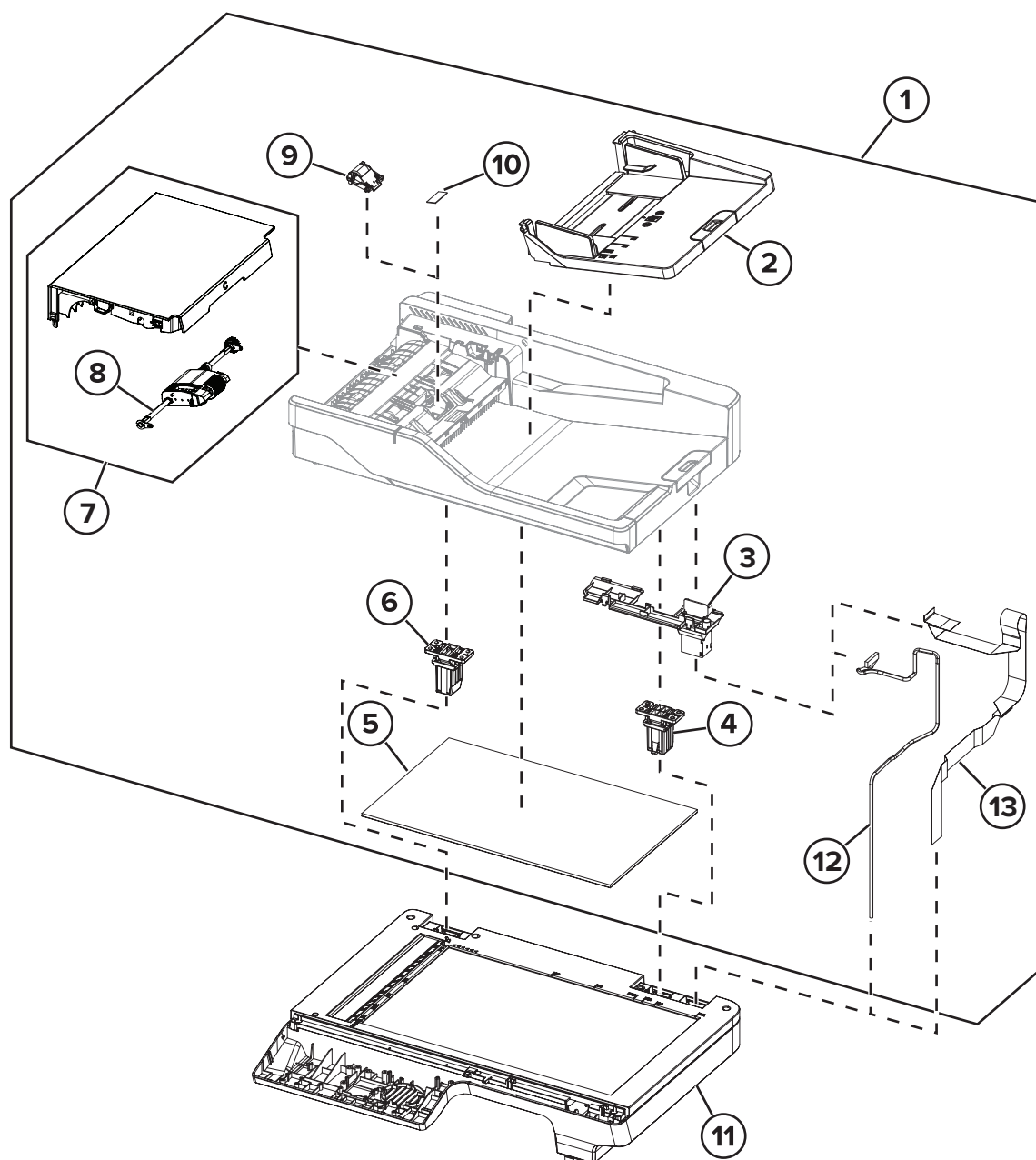


Assembly 13: Imaging (MX321, MX421, and MX521) 2

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
7	41X2222	1	1	ADF access door (MX321)	“ADF access door removal” on page 288
7	41X1317	1	1	ADF access door (MX421)	“ADF access door removal” on page 288
7	41X2228	1	1	ADF access door (MX521)	“ADF access door removal” on page 288
8	41X2223	1	1	ADF roller (MX321, MX421, and MX521)	“ADF roller removal” on page 289
9	41X2224	1	1	ADF separator roller (MX421 and MX521)	--
9	40X6247	1	1	ADF separator roller (MX321)	--
10	40X9110	1	1	ADF restraint pad (MX321, MX421, and MX521)	“ADF restraint pad removal ” on page 282
11	41X1330	1	1	Flatbed scanner (MX321 and MX421) - This part is the original flatbed for old printers (8th digit of printer serial number=0, or 1). - This part can be installed on new printers (8th digit of printer serial number≥2). Since the flatbed cable is short, the flatbed home sensor extension cable (41X2530) is also needed.	“Flatbed scanner removal” on page 291
11	41X2522	1	1	Flatbed scanner (MX321 and MX421) - This part is the original flatbed for new printers (8th digit of printer serial number≥2). - This part can be installed on old printers (8th digit of printer serial number=0, or 1). No need to install additional parts.	“Flatbed scanner removal” on page 291
11	41X2227	1	1	Flatbed scanner (MX521) - This part is the original flatbed for old printers (8th digit of printer serial number=0, or 1). - This part can be installed on new printers (8th digit of printer serial number≥2). Since the flatbed cable is short, the flatbed home sensor extension cable (41X2530) is also needed.	“Flatbed scanner removal” on page 291

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
11	41X2523	1	1	Flatbed scanner (MX521) • This part is the original flatbed for new printers (8th digit of printer serial number ≥ 2). • This part can be installed on old printers (8th digit of printer serial number = 0, or 1). No need to install additional parts.	“Flatbed scanner removal” on page 291
12	41X2225	1	1	ADF cable (MX521)	“ADF cable removal” on page 296
12	41X2528	1	1	ADF cable (MX321 and MX421)	“ADF cable removal” on page 296
NS	41X2530	1	1	Flatbed home sensor extension cable	--

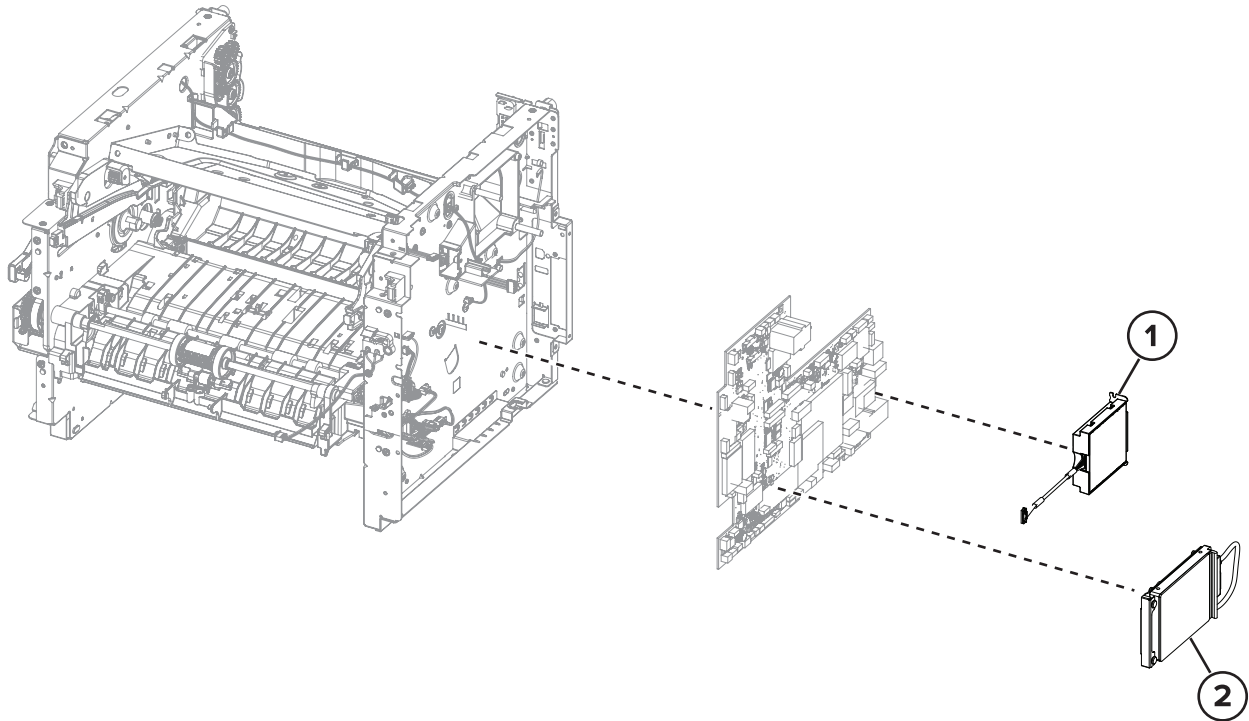
Assembly 14: Imaging (MX522)



Assembly 14: Imaging (MX522)

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
1	41X1328	1	1	ADF assembly (MX522)	“ADF assembly removal” on page 285
2	41X1334	1	1	ADF tray (MX522)	“ADF tray removal” on page 283
3	41X2221	1	1	ADF cable cover (MX522)	--
4	41X1321	1	1	ADF right hinge (MX522)	“ADF hinge removal” on page 286
5	41X1324	1	1	ADF cushion (MX522)	--
6	40X9129	1	1	ADF left hinge (MX522)	“ADF hinge removal” on page 286
7	41X1318	1	1	ADF access door (MX522)	“ADF access door removal” on page 288
8	41X1326	1	1	ADF roller (MX522)	“ADF roller removal” on page 289
9	41X1325	1	1	ADF separator roller (MX522)	--
10	41X1322	1	1	ADF restraint pad (MX522)	“ADF restraint pad removal ” on page 282
11	41X1331	1	1	Flatbed scanner (MX522)	“Flatbed scanner removal” on page 291
12	41X1315	1	1	ADF cable (MX522)	“ADF cable removal” on page 296
13	41X1316	1	1	ADF flat cable (MX522)	“ADF flat cable removal” on page 293

Assembly 15: Fax card and hard disk



Assembly 15: Fax card and hard disk

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
1	41X1374	1	1	Fax card (MX522)	--
2	40X9934	1	1	Printer hard disk (MX522), 500GB	--

Assembly 16: Maintenance kits (MX522, MX521, and MB2546)

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
NS	41X1230	1	1	Maintenance Kit (100 V) • Fuser (100 V) • MPF pick roller and separator pad • Pick tires • Transfer roller	N/A
NS	41X1228	1	1	Maintenance Kit (110 V) • Fuser (110 V) • MPF pick roller and separator pad • Pick tires • Transfer roller	N/A
NS	41X1229	1	1	Maintenance Kit (220 V) • Fuser (220 V) • MPF pick roller and separator pad • Pick tires • Transfer roller	N/A

Assembly 17: Miscellaneous

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
NS	41X1010	1	1	User Flash Memory, 256MB	--
NS	41X1002	1	1	Forms and Bar Code card	--
NS	41X1004	1	1	IPDS card	--
NS	41X1006	1	1	PRESCRIBE card	--
NS	41X1014	1	1	Font card, Traditional Chinese	--
NS	41X1013	1	1	Font card, Simplified Chinese	--
NS	41X1015	1	1	Font card, Korean	--
NS	41X1016	1	1	Font card, Japanese	--
NS	41X1872	1	1	Marknet N8372, Front WiFi—FSM (MX421 and MX52x)	--
NS	40X8523	1	1	RS-232C Serial Interface card (MX52x)	--
NS	40X8524	1	1	Parallel 1284-B Interface card (MX52x)	--
NS	41X1946	1	1	MarkNet N8230 Fiber Ethernet 100BASE-FX (LC), 1000BASE-SX (LC) (Fiber + side cover) (MX52x)	--
NS	41X2055	1	1	Smart card	--
NS	40X1367	1	1	Parallel cable, 10 feet (MX52x)	--
NS	40X1368	1	1	USB 2.0 cable, 2 meters	--
NS	3086579	1	1	Software CD Note: The part number is for internal use only and is not orderable.	--

