



HP LaserJet Pro M14-M17 and LaserJet Pro MFP M28-M31

Repair Manual

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Conventions used in this guide


 **TIP:** Helpful hints or shortcuts.

 **NOTE:** Information that explains a concept or how to complete a task.

 **Reinstallation tip:** Reinstallation helpful hints, shortcuts, or considerations.

 **IMPORTANT:** Information that help the user to avoid potential printer error conditions.

 **CAUTION:** Procedures that the user must follow to avoid losing data or damaging the printer.

 **WARNING!** Procedures that the user must follow to avoid personal injury, catastrophic loss of data, or extensive damage to the printer.

For additional service and support information

HP service personnel, go to one of the following Web-based Interactive Search Engines (WISE) sites:

AMS

- <https://support.hp.com/wise/home/ams-en>
- <https://support.hp.com/wise/home/ams-es>
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APJ

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Channel partners, go to HP Channel Services Network (CSN) at www.hp.com/partners/csn.

At these locations, find information on the following topics:

- Install and configure
- Printer specifications
- Up-to-date control panel message (CPMD) troubleshooting
- Solutions for printer issues and emerging issues
- Remove and replace part instructions and videos
- Service advisories
- Warranty and regulatory information

Channel partners, access training materials in the HP University and Partner Learning Center at <https://content.ext.hp.com/sites/LMS/HPU.page>.

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Table of contents

1 Removal and replacement	1
For additional service and support	2
Removal and replacement strategy	3
Introduction	3
Considerations during removal and replacement	3
Electrostatic discharge	4
Required tools	5
Fasteners used in this printer	5
Service approach	6
Before performing service	6
Accessing the secondary service menu	6
After performing service	7
Post-service tests	7
Order parts by authorized service providers	8
Ordering	8
Orderable parts	8
Whole unit replacement (WUR)	8
Supplies and accessories	10
Related documentation and software	10
Removal and replacement procedures	11
Customer self-repair (CSR) components	11
Field Replaceable Units (FRUs) / Bench Repair Units (BRUs)	20
 2 Parts and diagrams	 329
For additional service and support	330
Assembly locations	331
External panels, doors, and covers	331
Main assemblies	332
Main parts	332
PCA	333
Order parts, accessories, and supplies	334
Ordering	334

Orderable parts	334
Supplies	334
Customer self-repair parts	334
Related documentation and software	335
How to use the parts lists and diagrams	336
Covers	338
Covers (M14-M17)	338
Covers (MFP M28-M31)	340
Internal components	342
Internal components (1 of 2)	342
Internal components (2 of 2)	344
Alphabetical parts list	346
Numerical parts list	349
Index	353

List of tables

Table 2-1	External panels, doors, and covers (M14-M17)	331
Table 2-2	External panels, doors, and covers (MFP M28-M31)	331
Table 2-3	Main assemblies	332
Table 2-4	Main parts	332
Table 2-5	PCA	333
Table 2-6	Supplies	334
Table 2-7	Covers (M14-M17)	339
Table 2-8	Covers (MFP M28-M31)	341
Table 2-9	Internal components (1 of 2) ¹	343
Table 2-10	Internal components (2 of 2)	345

List of figures

Figure 1-1	Screwdrivers	5
Figure 1-2	Remove Tray 1	23
Figure 1-3	Remove two screw	26
Figure 1-4	Special disassembly instructions	27
Figure 1-5	Remove the link arm	28
Figure 1-6	Remove the link arm	28
Figure 1-7	Remove the link arm	29
Figure 1-8	Remove the cartridge door	29
Figure 1-9	Install the link arms on the replacement door	30
Figure 1-10	Install the link arms on the replacement door	30
Figure 1-11	Remove the document lid (M28-M31)	33
Figure 1-12	Remove two screw	36
Figure 1-13	Special disassembly instructions	37
Figure 1-14	Remove the link arm	38
Figure 1-15	Remove the link arm	38
Figure 1-16	Remove the link arm	39
Figure 1-17	Remove the cartridge door	39
Figure 1-18	Install the link arms on the replacement door	40
Figure 1-19	Install the link arms on the replacement door	40
Figure 1-20	Remove the formatter cover (M14-M17)	41
Figure 1-21	Remove the formatter cover (MFP M28-M31)	44
Figure 1-22	Remove the formatter cover (MFP M28-M31)	47
Figure 1-23	Disconnect two FFCs	47
Figure 1-24	Special disassembly instructions	48
Figure 1-25	Remove the link arm	49
Figure 1-26	Remove the link arm	49
Figure 1-27	Remove the link arm	50
Figure 1-28	Remove the link arm	50
Figure 1-29	Remove the image scanner	51
Figure 1-30	Remove the cartridge door	52
Figure 1-31	Remove the formatter cover (MFP M28-M31)	55
Figure 1-32	Disconnect two FFCs	55

Figure 1-33	Special disassembly instructions	56
Figure 1-34	Remove the link arm	57
Figure 1-35	Remove the link arm	57
Figure 1-36	Remove the link arm	58
Figure 1-37	Remove the link arm	58
Figure 1-38	Remove the image scanner	59
Figure 1-39	Remove the cartridge door	59
Figure 1-40	Remove two screw	62
Figure 1-41	Special disassembly instructions	63
Figure 1-42	Remove the link arm	64
Figure 1-43	Remove the link arm	64
Figure 1-44	Remove the link arm	65
Figure 1-45	Remove the cartridge door	65
Figure 1-46	Install the link arms on the replacement door	66
Figure 1-47	Install the link arms on the replacement door	66
Figure 1-48	Remove the formatter cover (M14-M17)	67
Figure 1-49	Remove the lower plate	67
Figure 1-50	Remove the three screws	68
Figure 1-51	Remove the lower cover	68
Figure 1-52	Fit two ribs on the printer into the grooves (lower cover install)	69
Figure 1-53	Remove the formatter cover (MFP M28-M31)	72
Figure 1-54	Disconnect two FFCs	72
Figure 1-55	Special disassembly instructions	73
Figure 1-56	Remove the link arm	74
Figure 1-57	Remove the link arm	74
Figure 1-58	Remove the link arm	75
Figure 1-59	Remove the link arm	75
Figure 1-60	Remove the image scanner	76
Figure 1-61	Remove the cartridge door	76
Figure 1-62	Remove the top cover	77
Figure 1-63	Install the pad	78
Figure 1-64	Remove the lower plate	78
Figure 1-65	Remove three screws	79
Figure 1-66	Remove the lower cover	79
Figure 1-67	Remove the formatter cover (MFP M28-M31)	82
Figure 1-68	Disconnect two FFCs	82
Figure 1-69	Special disassembly instructions	83
Figure 1-70	Remove the link arm	84
Figure 1-71	Remove the link arm	84
Figure 1-72	Remove the link arm	85
Figure 1-73	Remove the link arm	85

Figure 1-74	Remove the image scanner	86
Figure 1-75	Remove the cartridge door	86
Figure 1-76	Remove the top cover	87
Figure 1-77	Install the pad	88
Figure 1-78	Remove two screw	91
Figure 1-79	Special disassembly instructions	92
Figure 1-80	Remove the link arm	93
Figure 1-81	Remove the link arm	93
Figure 1-82	Remove the link arm	94
Figure 1-83	Remove the cartridge door	94
Figure 1-84	Install the link arms on the replacement door	95
Figure 1-85	Install the link arms on the replacement door	95
Figure 1-86	Remove the formatter cover (M14-M17)	96
Figure 1-87	Remove the lower plate	96
Figure 1-88	Remove the three screws	97
Figure 1-89	Remove the lower cover	97
Figure 1-90	Fit two ribs on the printer into the grooves (lower cover install)	98
Figure 1-91	Remove the control panel	98
Figure 1-92	Pickup roller tab	102
Figure 1-93	Remove pickup roller 1	102
Figure 1-94	Remove pickup roller 2	103
Figure 1-95	Install pickup roller 2	104
Figure 1-96	Install pickup roller 1	105
Figure 1-97	Remove two screw	107
Figure 1-98	Special disassembly instructions	108
Figure 1-99	Remove the link arm	109
Figure 1-100	Remove the link arm	109
Figure 1-101	Remove the link arm	110
Figure 1-102	Remove the cartridge door	110
Figure 1-103	Install the link arms on the replacement door	111
Figure 1-104	Install the link arms on the replacement door	111
Figure 1-105	Remove the formatter cover (M14-M17)	112
Figure 1-106	Remove the lower plate	112
Figure 1-107	Remove the three screws	113
Figure 1-108	Remove the lower cover	113
Figure 1-109	Fit two ribs on the printer into the grooves (lower cover install)	114
Figure 1-110	Remove the formatter	115
Figure 1-111	Remove the control panel	116
Figure 1-112	Remove the inner cover	116
Figure 1-113	Disconnect the FFC and remove a screw	117
Figure 1-114	Remove the scanner stay and laser scanner assembly	117

Figure 1-115	Remove the guide	118
Figure 1-116	Remove the plate	118
Figure 1-117	Remove the guide	119
Figure 1-118	Remove the pickup roller arm	119
Figure 1-119	Reinstall the spring	120
Figure 1-120	Reinstall the pickup roller arm	120
Figure 1-121	Remove the formatter cover (MFP M28-M31)	123
Figure 1-122	Disconnect two FFCs	123
Figure 1-123	Special disassembly instructions	124
Figure 1-124	Remove the link arm	125
Figure 1-125	Remove the link arm	125
Figure 1-126	Remove the link arm	126
Figure 1-127	Remove the link arm	126
Figure 1-128	Remove the image scanner	127
Figure 1-129	Remove the cartridge door	127
Figure 1-130	Remove the top cover	128
Figure 1-131	Install the pad	129
Figure 1-132	Remove the lower plate	129
Figure 1-133	Remove three screws	130
Figure 1-134	Remove the lower cover	130
Figure 1-135	Release the FFC and remove one screw	131
Figure 1-136	Remove the scanner stay and laser scanner assembly	131
Figure 1-137	Remove the plate	132
Figure 1-138	Remove the cartridge guide	132
Figure 1-139	Remove the pickup roller arm	133
Figure 1-140	Reinstall the pickup roller arm	134
Figure 1-141	Remove transfer roller	137
Figure 1-142	Install the transfer roller	138
Figure 1-143	Remove the hinge link (M28-M31)	140
Figure 1-144	Remove two screw	143
Figure 1-145	Special disassembly instructions	144
Figure 1-146	Remove the link arm	145
Figure 1-147	Remove the link arm	145
Figure 1-148	Remove the link arm	146
Figure 1-149	Remove the cartridge door	146
Figure 1-150	Install the link arms on the replacement door	147
Figure 1-151	Install the link arms on the replacement door	147
Figure 1-152	Remove the formatter cover (M14-M17)	148
Figure 1-153	Remove the lower plate	148
Figure 1-154	Remove the three screws	149
Figure 1-155	Remove the lower cover	149

Figure 1-156	Fit two ribs on the printer into the grooves (lower cover install)	150
Figure 1-157	Remove the formatter cover (MFP M28-M31)	150
Figure 1-158	Disconnect two FFCs	151
Figure 1-159	Special disassembly instructions	152
Figure 1-160	Remove the link arm	153
Figure 1-161	Remove the link arm	153
Figure 1-162	Remove the link arm	154
Figure 1-163	Remove the link arm	154
Figure 1-164	Remove the image scanner	155
Figure 1-165	Remove the cartridge door	155
Figure 1-166	Remove the top cover	156
Figure 1-167	Install the pad	157
Figure 1-168	Remove the lower plate	157
Figure 1-169	Remove three screws	158
Figure 1-170	Remove the lower cover	158
Figure 1-171	Remove the laser scanner and FFC	159
Figure 1-172	Remove two screw	162
Figure 1-173	Special disassembly instructions	163
Figure 1-174	Remove the link arm	164
Figure 1-175	Remove the link arm	164
Figure 1-176	Remove the link arm	165
Figure 1-177	Remove the cartridge door	165
Figure 1-178	Install the link arms on the replacement door	166
Figure 1-179	Install the link arms on the replacement door	166
Figure 1-180	Remove the formatter cover (M14-M17)	167
Figure 1-181	Remove the lower plate	167
Figure 1-182	Remove the three screws	168
Figure 1-183	Remove the lower cover	168
Figure 1-184	Fit two ribs on the printer into the grooves (lower cover install)	169
Figure 1-185	Remove the formatter	170
Figure 1-186	Remove the formatter cover (MFP M28-M31)	173
Figure 1-187	Remove the formatter (MFP M28-M31)	173
Figure 1-188	Remove two screw	176
Figure 1-189	Special disassembly instructions	177
Figure 1-190	Remove the link arm	178
Figure 1-191	Remove the link arm	178
Figure 1-192	Remove the link arm	179
Figure 1-193	Remove the cartridge door	179
Figure 1-194	Install the link arms on the replacement door	180
Figure 1-195	Install the link arms on the replacement door	180
Figure 1-196	Remove the formatter cover (M14-M17)	181

Figure 1-197	Remove the lower plate	181
Figure 1-198	Remove the three screws	182
Figure 1-199	Remove the lower cover	182
Figure 1-200	Fit two ribs on the printer into the grooves (lower cover install)	183
Figure 1-201	Remove the formatter	184
Figure 1-202	Pressure release lever	184
Figure 1-203	Rotate the pressure release levers	185
Figure 1-204	Remove the inner cover	185
Figure 1-205	Remove the cable guide	186
Figure 1-206	Remove the plate	186
Figure 1-207	Disconnect two connectors	187
Figure 1-208	Release the FFC and spring	187
Figure 1-209	Remove two screws	188
Figure 1-210	Right side gears and springs	188
Figure 1-211	Remove the plate	189
Figure 1-212	Remove the fuser	189
Figure 1-213	Reinstall the spring (upper)	190
Figure 1-214	Reinstall the spring (lower)	190
Figure 1-215	Remove the formatter cover (MFP M28-M31)	193
Figure 1-216	Disconnect two FFCs	193
Figure 1-217	Special disassembly instructions	194
Figure 1-218	Remove the link arm	195
Figure 1-219	Remove the link arm	195
Figure 1-220	Remove the link arm	196
Figure 1-221	Remove the link arm	196
Figure 1-222	Remove the image scanner	197
Figure 1-223	Remove the cartridge door	197
Figure 1-224	Remove the top cover	198
Figure 1-225	Install the pad	199
Figure 1-226	Remove the lower plate	199
Figure 1-227	Remove three screws	200
Figure 1-228	Remove the lower cover	200
Figure 1-229	Pressure release lever	201
Figure 1-230	Rotate the pressure release levers	201
Figure 1-231	Remove the plate	202
Figure 1-232	Disconnect two connectors	202
Figure 1-233	Release the FFC and spring	203
Figure 1-234	Remove two screws	203
Figure 1-235	Right side gears and springs	204
Figure 1-236	Remove the plate	204
Figure 1-237	Remove the fuser	205

Figure 1-238	Reinstall the spring (lowerr)	205
Figure 1-239	Remove two screw	208
Figure 1-240	Special disassembly instructions	209
Figure 1-241	Remove the link arm	210
Figure 1-242	Remove the link arm	210
Figure 1-243	Remove the link arm	211
Figure 1-244	Remove the cartridge door	211
Figure 1-245	Install the link arms on the replacement door	212
Figure 1-246	Install the link arms on the replacement door	212
Figure 1-247	Remove the formatter cover (M14-M17)	213
Figure 1-248	Remove the lower plate	213
Figure 1-249	Remove the three screws	214
Figure 1-250	Remove the lower cover	214
Figure 1-251	Fit two ribs on the printer into the grooves (lower cover install)	215
Figure 1-252	Remove the formatter	216
Figure 1-253	Pressure release lever	216
Figure 1-254	Rotate the pressure release levers	217
Figure 1-255	Remove the inner cover	217
Figure 1-256	Remove the cable guide	218
Figure 1-257	Remove the plate	218
Figure 1-258	Disconnect two connectors	219
Figure 1-259	Release the FFC and spring	219
Figure 1-260	Remove two screws	220
Figure 1-261	Right side gears and springs	220
Figure 1-262	Remove the plate	221
Figure 1-263	Remove the fuser	221
Figure 1-264	Reinstall the spring (upper)	222
Figure 1-265	Reinstall the spring (lowerr)	222
Figure 1-266	Pressure release lever	223
Figure 1-267	Check the pressure release levers	223
Figure 1-268	Release the wire harnesses	224
Figure 1-269	Remove the fuser cover	224
Figure 1-270	Remove the pressure plate and lever	225
Figure 1-271	Remove the pressure plate and lever	225
Figure 1-272	Remove the gears	226
Figure 1-273	Release the wire harness	226
Figure 1-274	Remove the fuser film assembly	227
Figure 1-275	Remove the formatter cover (MFP M28-M31)	230
Figure 1-276	Disconnect two FFCs	230
Figure 1-277	Special disassembly instructions	231
Figure 1-278	Remove the link arm	232

Figure 1-279	Remove the link arm	232
Figure 1-280	Remove the link arm	233
Figure 1-281	Remove the link arm	233
Figure 1-282	Remove the image scanner	234
Figure 1-283	Remove the cartridge door	234
Figure 1-284	Remove the top cover	235
Figure 1-285	Install the pad	236
Figure 1-286	Remove the lower plate	236
Figure 1-287	Remove three screws	237
Figure 1-288	Remove the lower cover	237
Figure 1-289	Pressure release lever	238
Figure 1-290	Rotate the pressure release levers	238
Figure 1-291	Remove the plate	239
Figure 1-292	Disconnect two connectors	239
Figure 1-293	Release the FFC and spring	240
Figure 1-294	Remove two screws	240
Figure 1-295	Right side gears and springs	241
Figure 1-296	Remove the plate	241
Figure 1-297	Remove the fuser	242
Figure 1-298	Reinstall the spring (lowerr)	242
Figure 1-299	Pressure release lever	243
Figure 1-300	Check the pressure release levers	244
Figure 1-301	Release the wire harnesses	244
Figure 1-302	Remove the fuser cover	245
Figure 1-303	Remove the pressure plate and lever	245
Figure 1-304	Remove the pressure plate and lever	246
Figure 1-305	Remove the gears	246
Figure 1-306	Release the wire harness	247
Figure 1-307	Remove the fuser film assembly	247
Figure 1-308	Remove two screw	250
Figure 1-309	Special disassembly instructions	251
Figure 1-310	Remove the link arm	252
Figure 1-311	Remove the link arm	252
Figure 1-312	Remove the link arm	253
Figure 1-313	Remove the cartridge door	253
Figure 1-314	Install the link arms on the replacement door	254
Figure 1-315	Install the link arms on the replacement door	254
Figure 1-316	Remove the formatter cover (M14-M17)	255
Figure 1-317	Remove the lower plate	255
Figure 1-318	Remove the three screws	256
Figure 1-319	Remove the lower cover	256

Figure 1-320	Fit two ribs on the printer into the grooves (lower cover install)	257
Figure 1-321	Remove the motor shield plate	257
Figure 1-322	Disconnect connectors and FFCs	258
Figure 1-323	Release the lever and disconnect the connector	258
Figure 1-324	Remove the engine controller assembly	259
Figure 1-325	Check the spring	260
Figure 1-326	Remove the formatter cover (MFP M28-M31)	263
Figure 1-327	Remove the formatter (MFP M28-M31)	264
Figure 1-328	Disconnect two FFCs	264
Figure 1-329	Special disassembly instructions	265
Figure 1-330	Remove the link arm	266
Figure 1-331	Remove the link arm	266
Figure 1-332	Remove the link arm	267
Figure 1-333	Remove the link arm	267
Figure 1-334	Remove the image scanner	268
Figure 1-335	Remove the cartridge door	268
Figure 1-336	Remove the top cover	269
Figure 1-337	Install the pad	270
Figure 1-338	Remove the lower plate	270
Figure 1-339	Remove three screws	271
Figure 1-340	Remove the lower cover	271
Figure 1-341	Remove the motor shield plate	272
Figure 1-342	Disconnect connectors and FFCs	272
Figure 1-343	Release the lever and disconnect the connector	273
Figure 1-344	Remove the engine controller assembly	273
Figure 1-345	Check the spring	274
Figure 1-346	Remove two screw	277
Figure 1-347	Special disassembly instructions	278
Figure 1-348	Remove the link arm	279
Figure 1-349	Remove the link arm	279
Figure 1-350	Remove the link arm	280
Figure 1-351	Remove the cartridge door	280
Figure 1-352	Install the link arms on the replacement door	281
Figure 1-353	Install the link arms on the replacement door	281
Figure 1-354	Remove the formatter cover (M14-M17)	282
Figure 1-355	Remove the lower plate	282
Figure 1-356	Remove the three screws	283
Figure 1-357	Remove the lower cover	283
Figure 1-358	Fit two ribs on the printer into the grooves (lower cover install)	284
Figure 1-359	Remove the formatter cover (MFP M28-M31)	284
Figure 1-360	Disconnect two FFCs	285

Figure 1-361	Special disassembly instructions	286
Figure 1-362	Remove the link arm	287
Figure 1-363	Remove the link arm	287
Figure 1-364	Remove the link arm	288
Figure 1-365	Remove the link arm	288
Figure 1-366	Remove the image scanner	289
Figure 1-367	Remove the cartridge door	289
Figure 1-368	Remove the top cover	290
Figure 1-369	Install the pad	291
Figure 1-370	Remove the lower plate	291
Figure 1-371	Remove three screws	292
Figure 1-372	Remove the lower cover	292
Figure 1-373	Remove the door switch and FFC	293
Figure 1-374	Remove two screw	296
Figure 1-375	Special disassembly instructions	297
Figure 1-376	Remove the link arm	298
Figure 1-377	Remove the link arm	298
Figure 1-378	Remove the link arm	299
Figure 1-379	Remove the cartridge door	299
Figure 1-380	Install the link arms on the replacement door	300
Figure 1-381	Install the link arms on the replacement door	300
Figure 1-382	Remove the formatter cover (M14-M17)	301
Figure 1-383	Remove the lower plate	301
Figure 1-384	Remove the three screws	302
Figure 1-385	Remove the lower cover	302
Figure 1-386	Fit two ribs on the printer into the grooves (lower cover install)	303
Figure 1-387	Remove the formatter cover (MFP M28-M31)	303
Figure 1-388	Disconnect two FFCs	304
Figure 1-389	Special disassembly instructions	305
Figure 1-390	Remove the link arm	306
Figure 1-391	Remove the link arm	306
Figure 1-392	Remove the link arm	307
Figure 1-393	Remove the link arm	307
Figure 1-394	Remove the image scanner	308
Figure 1-395	Remove the cartridge door	308
Figure 1-396	Remove the top cover	309
Figure 1-397	Install the pad	310
Figure 1-398	Remove the lower plate	310
Figure 1-399	Remove three screws	311
Figure 1-400	Remove the lower cover	311
Figure 1-401	Remove the pickup solenoid	312

Figure 1-402	Remove two screw	315
Figure 1-403	Special disassembly instructions	316
Figure 1-404	Remove the link arm	317
Figure 1-405	Remove the link arm	317
Figure 1-406	Remove the link arm	318
Figure 1-407	Remove the cartridge door	318
Figure 1-408	Install the link arms on the replacement door	319
Figure 1-409	Install the link arms on the replacement door	319
Figure 1-410	Remove the formatter cover (M14-M17)	320
Figure 1-411	Remove the lower plate	320
Figure 1-412	Remove the three screws	321
Figure 1-413	Remove the lower cover	321
Figure 1-414	Fit two ribs on the printer into the grooves (lower cover install)	322
Figure 1-415	Remove the formatter	323
Figure 1-416	Remove the wireless PCA (M14-M17)	323
Figure 1-417	Remove the formatter cover (MFP M28-M31)	326
Figure 1-418	Remove the wireless PCA (MFP M28-M31)	326
Figure 2-1	External panels, doors, and covers (M14-M17)	331
Figure 2-2	External panels, doors, and covers (MFP M28-M31)	331
Figure 2-3	Main assemblies	332
Figure 2-4	Main parts	332
Figure 2-5	PCA	333
Figure 2-6	Covers (M14-M17)	338
Figure 2-7	Covers (MFP M28-M31)	340
Figure 2-8	Internal components (1 of 2)	342
Figure 2-9	Internal components (2 of 2)	344

1 Removal and replacement

- [For additional service and support](#)
- [Removal and replacement strategy](#)
- [Service approach](#)
- [Order parts by authorized service providers](#)
- [Removal and replacement procedures](#)

For additional service and support

HP service personnel, go to one of the following Web-based Interactive Search Engines (WISE) sites:

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Removal and replacement strategy

Introduction

The printer uses a field repair strategy. Defective parts are diagnosed and replaced at the Field Replaceable Unit (FRU) or Bench Repair Unit (BRU) assembly level. Repair normally begins by using the printer internal diagnostics and the following two-step process:

1. Isolate the problem to the major system (for example, the network, server, or printer).
2. Identify the cause of failures according to the printer troubleshooting service manual and follow the disassembly procedures to replace the defective parts or the consumable parts.



IMPORTANT: See the separate Control Panel Message Document (CPMD) for this printer for control-panel error message descriptions and solutions (also available online).

After locating a faulty part, the printer can usually be repaired at the assembly level by replacing FRUs. Some mechanical assemblies might need to be repaired at the subassembly level. HP does not support replacement of components on the printed circuit assemblies (PCAs).

The user replaces supplies (toner cartridge) as they are depleted. Additional instructions about other user-replaceable parts are provided in this section.

The printer tracks the amount of use on the customer-replaceable supplies. The printer prompts the user to replace certain items when a supply is nearly depleted.

Swapping toner cartridges between products might cause a misrepresentation of supply life values and is not recommended.

Considerations during removal and replacement

This chapter describes the removal and replacement of FRUs/BRUs only.

Replacing FRUs/BRUs is generally the reverse of removal. Notes are included to provide directions for difficult or critical replacement procedures.

HP does not support repairing individual subassemblies or troubleshooting to the printed-circuit assembly (PCA) component level.




WARNING! Never operate or service the printer with the protective cover removed from the laser scanner assembly. The reflected beam, although invisible, can cause damage to the eyes.

The sheet-metal parts can have sharp edges. Be careful when handling sheet-metal parts.

Before attempting to remove or replace parts, turn the printer off and remove the power cable. Never operate the printer with the parts removed from the printer.

Turn the printer off, wait 5 seconds, and then remove the power cord before attempting to service the printer. *If this warning is not followed*, severe injury can result as well as damage to the printer. The power must be on for certain functional checks during troubleshooting. However, the power cord must be disconnected during parts removal. AC voltage is still present inside the printer when the power switch is in the off position. The power cord must be *disconnected* before servicing the printer.

 **CAUTION:** Incorrectly routed or loose wire harnesses might interfere with other internal components or assemblies and be damaged, pinched, or frayed. Make sure that wire harnesses are correctly routed and retained when installing assemblies.

Do not bend or fold the flat flexible cables (FFCs) during removal or installation. Do not straighten pre-folds in the FFCs.


Do not expose the toner cartridge, or image drum, to strong light even for a short time.

 **IMPORTANT:** When an assembly is removed that includes a rating plate or tag (or a printer code label), make sure to transfer the plate or tag (or code label) to the replacement assembly.

Do not replace the formatter and engine controller simultaneously during a single printer servicing. Doing so might cause the printer to become unstable or inoperable.

During removal, replacement, or transportation of the printer, remove the cassettes.

Some repair operations might require flattening or straightening FFCs. However, try to avoid doing so. Before inserting the FFC, examine the foil connectors for damage. FFCs must be fully seated in the connectors. Failure to fully seat a FFC into a connector can cause a short circuit in a PCA or errors when restarting the printer. FFCs have a line on them that is parallel to the connector body when the FFC is correctly seated.


 **NOTE:** During assembly removal and replacement, or if the printer is moved, remove the toner cartridge.

Toner is a non-poisonous substance composed of plastic and a small number of colored components. If toner gets on the skin or clothing, wipe it off with dry tissue paper and wash in cold water. Hot water sets toner and it might be difficult, or impossible, to remove. Toner easily breaks down vinyl materials, so avoid letting toner contact vinyl.



Reassembling procedures are generally the reverse of removal unless otherwise specified. Occasionally, notes and tips are included to provide directions for difficult or critical replacement procedures.

Note the length, diameter, color, type, and location of each screw. Be sure to return each screw to its original location during reassembly.

To install a self-tapping screw, first turn it counterclockwise to align it with the existing thread pattern, and then carefully turn it clockwise to tighten. Do not overtighten. If a self-tapping screw hole becomes stripped, repair the screw-hole or replace the affected assembly.

 **TIP:** Some figures might show assemblies removed or installed that have not yet been removed or installed at that specific step. However, the procedures are correct for this printer and the target assembly. Always thoroughly read the instructions that accompany each figure.

Electrostatic discharge

 **CAUTION:**  Some parts are sensitive to electrostatic discharge (ESD). Look for the ESD reminder when removing printer parts. Always perform service work at an ESD-protected workstation or mat. If an ESD workstation or mat is not available, touch the sheet-metal chassis to provide a static ground *before* touching an ESD-sensitive assembly.

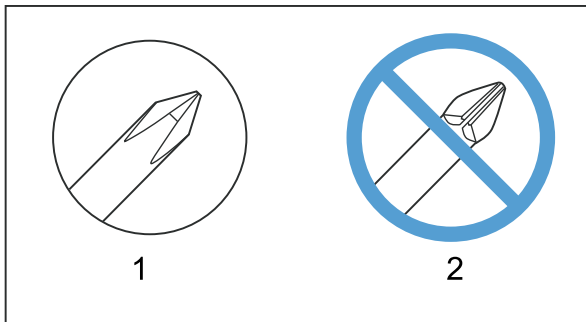
Protect the ESD-sensitive assemblies by placing them in ESD pouches when they are out of the printer.

Required tools

- #2 Phillips screwdriver with a magnetic tip and a 152 mm (6 in) shaft length
- Small, flat-blade screwdriver
- Needle-nose pliers
- ESD strap (if one is available)
- Penlight

⚠ CAUTION: Always use a Phillips screwdriver (callout 1). Do not use a Pozidriv screwdriver (callout 2) or any motorized screwdriver. These can damage screws or screw threads.

Figure 1-1 Screwdrivers



Fasteners used in this printer

⚠ WARNING! Make sure that assemblies are replaced with the correct screw type. Using the incorrect screw (for example, substituting a long screw for the correct shorter screw) can cause damage to the printer or interfere with printer operation. Do not intermix screws that are removed from one assembly with the screws that are removed from another assembly.

📝 NOTE: To install a self-tapping screw, first turn it counterclockwise to align it with the existing thread pattern, and then carefully turn it clockwise to tighten. Do not overtighten. If a self-tapping screw hole becomes stripped, repair the screw hole or replace the affected assembly.

Always take note of the length, diameter, color, type, and location of each removed screw. Make sure that screws are installed in the original location they were removed from during reinstallation.

Service approach

Before performing service

- Remove all paper from the product.
- Turn off the power using the power switch.
- Unplug the power cable and interface cable or cables.
- Place the product on an ESD workstation or mat, or use an ESD strap (if one is available). If an ESD workstation, mat, or strap is not available, ground yourself by touching the sheet-metal chassis *before* touching an ESD-sensitive part.
- Remove the toner cartridge.

Accessing the secondary service menu

Use the secondary service menu to print service-related reports and run special tests.



NOTE: Access the secondary service menu by using the HP Embedded Web Server (EWS)

- ▲ Open the secondary service menu.






NOTE: HP Device Toolbox is software used to connect to the HP Embedded Web Server when the printer is connected to a computer via USB. It is available only if a full installation was performed when the printer was installed on a computer. Depending on how the printer is connected, some features might not be available.




The HP Embedded Web Server is not accessible beyond the network firewall.

Open the HP EWS from the Start menu

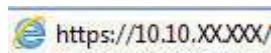
- Click the **Start**, and then click the **Programs** item.
- Click your HP printer group, and then click the **HP Device Toolbox** item.
- After opening the HP EWS, go to the **Service** page, and then select the **Go to Secondary Service** item.

Open the HP Embedded Web Server (EWS) from a Web browser

- M14-M17 control panels:** Select and hold the Resume  button until the Ready  light is blinking, and then release the Resume  button. Find the IP address or host name of the printer on the configuration report.

MFP M28-M311 LED control panels: Select and hold the Start Mono Copy  button until the Ready  light begins blinking, and then release the Start Mono Copy  button. Find the IP address or host name of the printer on the configuration report.

- b. Open a Web browser, and in the address line, type the IP address or host name exactly as it appears on the printer control panel or the configuration report. Press the [Enter](#) key on the computer keyboard. The EWS opens.



 **NOTE:** If the web browser displays a message indicating that accessing the website might not be safe, select the option to continue to the website. Accessing this website will not harm the computer.

- c. After opening the HP EWS, go to the **Service** page, and then select the **Go to Secondary Service** item.

After performing service

1. Reinstall the toner cartridge.
2. Return all paper to the input tray.
3. Plug in the power cable and turn on the printer.
4. Perform print-quality tests by printing from a host computer.

Post-service tests

Perform the following tests to verify that the repair or replacement was successful.

Print-quality test

1. Verify that you have completed the necessary reassembly steps.
2. Make sure that the input tray contains clean, unmarked paper.
3. Attach the power cord and interface cable or interface cables, and then turn on the product.
4. Verify that the expected startup sounds occur.
5. Print a configuration page, and then verify that the expected printing sounds occur.
6. Send a print job from the host computer, and then verify that the output meets expectations.

Copy quality test (MFP only)

1. Verify that you have completed the necessary reassembly steps.
2. Make sure that the input tray contains clean, unmarked paper.
3. Attach the power cord and interface cable or interface cables, and then turn on the product.
4. Verify that the expected startup sounds occur.
5. Copy a configuration page (or other page), and then verify that the expected printing sounds occur.
6. Verify that the copy output meets expectations.

Other tests

Operate the printer in a manner that exercises the specific part or parts that have been repaired or replaced.

Order parts by authorized service providers

Ordering

Order supplies and paper	www.hp.com/go/suresupply
Order genuine HP parts or accessories	www.hp.com/buy/parts
	or
	partsurfer.hp.com
Order through service or support providers	Contact an HP-authorized service or support provider.
Order using the HP Embedded Web Server (EWS)	To access, in a supported Web browser on your computer, enter the printer IP address or host name in the address/URL field. The EWS contains a link to the HP SureSupply Web site, which provides options for purchasing Original HP supplies.

Orderable parts

Not all parts can be ordered. Refer to the parts table following the exploded diagram in the parts chapter to determine if a part is orderable.

Whole unit replacement (WUR)

HP LaserJet Pro model	Whole unit replacement part number
HP LaserJet Pro M14-M17	
220V M15A AP	W2G50-67056
220V M15A EMEA	W2G50-69056
220V M15w AP	W2G51-67056
220V M15w EMEA	W2G51-69056
110V M15w TW/NA	W2G51-67055
220V M15w LA	W2G51-67019
110V M15w LA	W2G51-67020
220V M16a China	W2G52-67056
220V M16a India	W2G52-67001
220V M16w India	W2G53-67056
HP LaserJet Pro MFP M28-M34	
220V M28a AP	W2G54-67056
220V M28a EMEA	W2G54-69056
220V M28w AP	W2G55-67056
220V M28 EMEA	W2G55-69058
110V M28w TW/NA	W2G55-67055
110V M28w LA	W2G55-67020

HP LaserJet Pro model	Whole unit replacement part number
220V M29a China	W2G56-67056
220V M29a India	W2G56-67001
220V M29w India	W2G57-67056

Supplies and accessories

Item	Description	Cartridge number	Part number
Supplies			
For use only in Europe, Russia, CIS, Mid East and Africa			
HP 44A Black Toner Cartridge	Standard-capacity replacement black toner cartridge	44A	CF244A
For use only in North America, Latin America, Asia Pacific Countries/Regions (Exclude China, India)			
HP 48A Black Toner Cartridge	Standard-capacity replacement black toner cartridge	48A	CF248A
For use only in China, India			
HP 47A Black Toner Cartridge	Standard-capacity replacement black toner cartridge	47A	CF247A

Related documentation and software

HP service personnel, go to one of the following Web-based Interactive Search Engines (WISE) sites:

AMS

- <https://support.hp.com/wise/home/ams-en>
- <https://support.hp.com/wise/home/ams-es>
- <https://support.hp.com/wise/home/ams-pt>

APJ

- <https://support.hp.com/wise/home/apj-en>
- <https://support.hp.com/wise/home/apj-ja>
- <https://support.hp.com/wise/home/apj-ko>
- <https://support.hp.com/wise/home/apj-zh-Hans>
- <https://support.hp.com/wise/home/apj-zh-Hant>

EMEA

- <https://support.hp.com/wise/home/emea-en>

Channel partners, go to HP Channel Services Network (CSN) at www.hp.com/partners/csn.

Channel partners, access training materials in the HP University and Partner Learning Center at <https://content.ext.hp.com/sites/LMS/HPU.page>.

Removal and replacement procedures

Customer self-repair (CSR) components

The CSR level indicates the expected difficulty the customer will experience when removing and replacing an assembly. The CSR A assemblies in this section are easy for the customer to remove and replace.


- [Remove and replacement: Toner cartridge \(M14-M17\)](#)
- [Remove and replacement: Toner cartridge \(M28-M31\)](#)

Remove and replacement: Toner cartridge (M14-M17)

- [Introduction](#)
- [Step 1: Remove the toner cartridge](#)
- [Step 2: Unpack a replacement toner cartridge](#)
- [Step 3: Install the toner cartridge](#)


Introduction

This document provides the procedures to remove and replace the toner cartridge.

 **IMPORTANT:** When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Before performing service

- Turn the printer power off.

 **CAUTION:** To prevent damage to the toner cartridge, do not expose it to light for more than a few minutes. Cover the toner cartridge if it must be removed from the printer for an extended period of time.

If toner gets on clothing, wipe it off by using a dry cloth and wash the clothes in cold water. Hot water sets toner into fabric.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts

Toner cartridge part numbers	
M14-M17 Europe, Russia, CIS, Middle East, and Africa only:	
CF244A (new)	HP 44A Black Toner Cartridge
CF244-67901 (service)	
M14-M17 North America, Latin America, Asia Pacific Countries/Regions (excluding China and India) only:	
CF248A (new)	HP 48A Black Toner Cartridge
CF248-67901 (service)	
M14-M17 China and India only:	
CF247A (new)	HP 47A Black Toner Cartridge
CF247-67901 (service)	

Required tools

- No special tools are needed to remove or install this assembly.

After performing service

- Make sure that the cartridge door is fully closed after replacing the toner cartridge.
- Turn the printer power on.

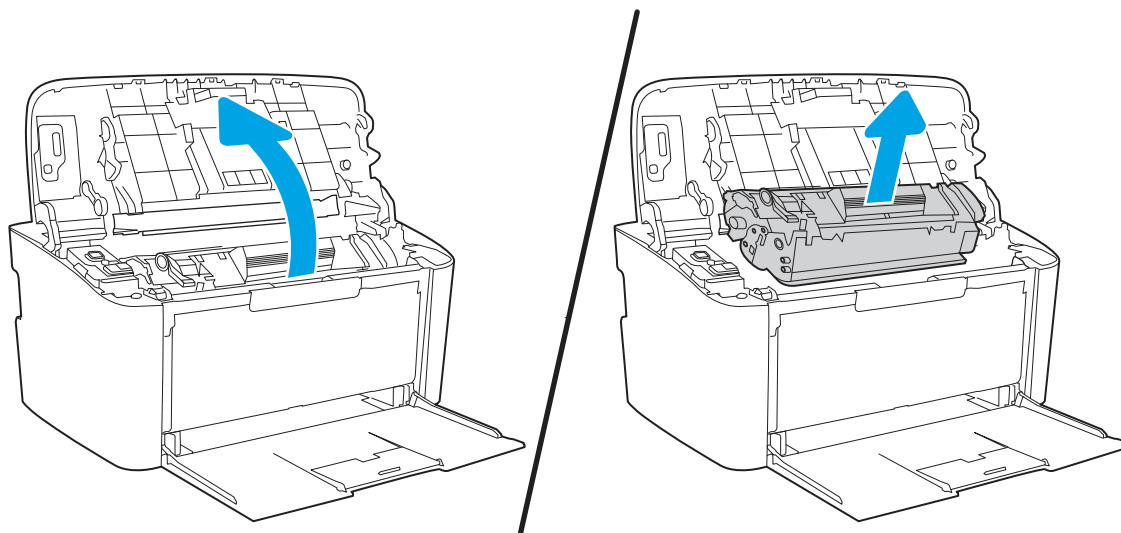
Post service test

No post service test is available for this assembly.

Step 1: Remove the toner cartridge

When a toner cartridge approaches the end of useful life, continue printing with the current cartridge until redistributing the toner no longer yields acceptable print quality.

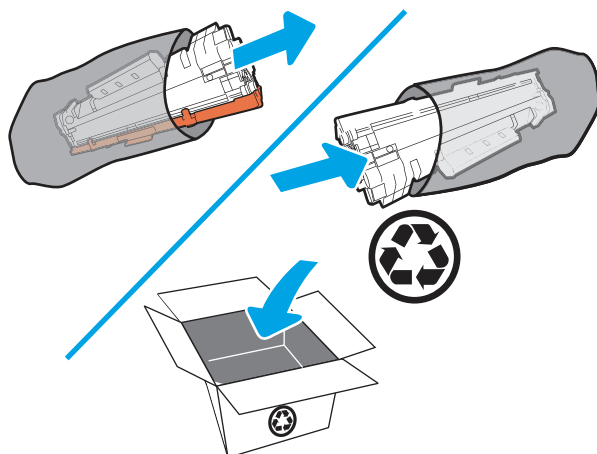
- ▲ Open the toner-cartridge door, and then remove the old toner cartridge.



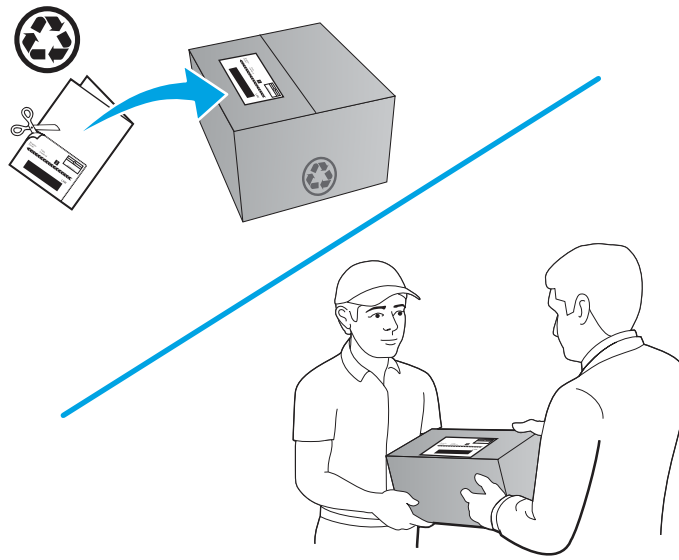
Step 2: Unpack a replacement toner cartridge

1. Remove the new toner cartridge packaging. Place the used toner cartridge in the bag and box for recycling.

⚠ CAUTION: To prevent damage to the toner cartridge, hold it by both ends. Do not touch the OPC cover or roller surface.

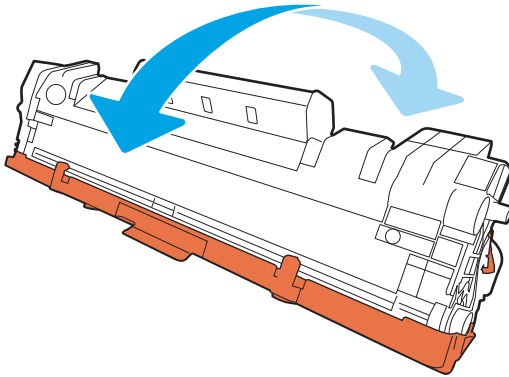


2. Use the pre-paid self-addressed label to return the used cartridge to HP for recycling (where available).

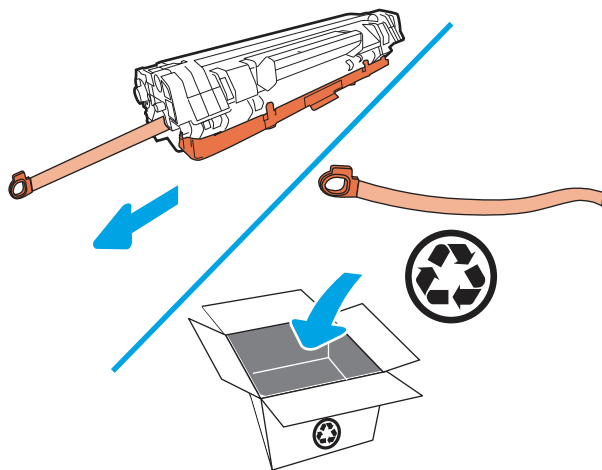


Step 3: Install the toner cartridge

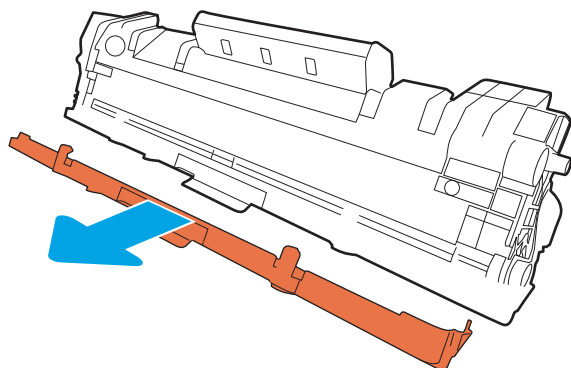
1. Grasp both sides of the toner cartridge and gently rock the toner cartridge to distribute the toner evenly inside the cartridge.



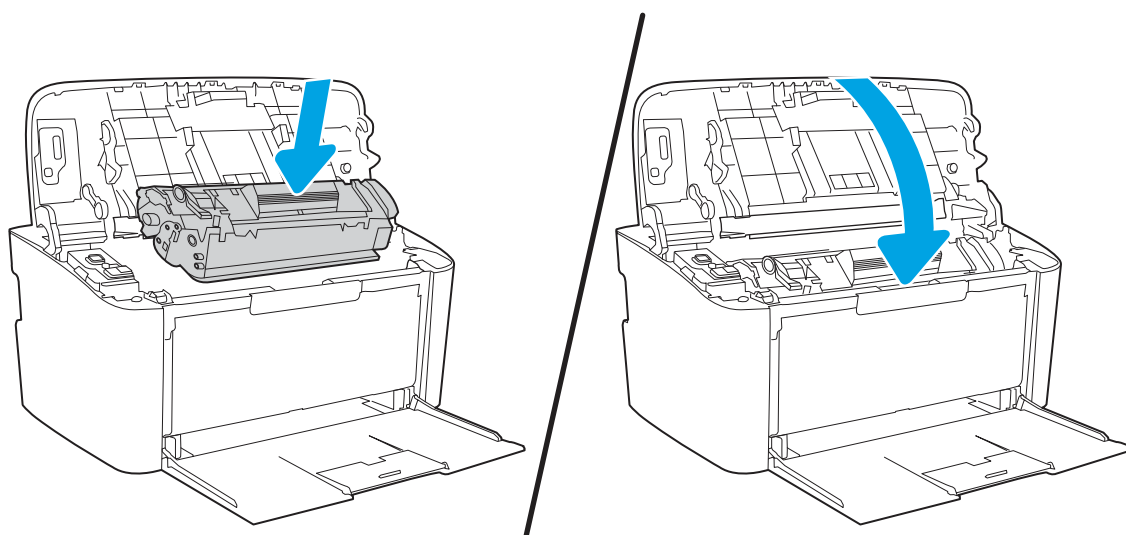
2. Bend the tab on the left side of the cartridge until the tab breaks loose, and then pull the tab until all the tape is removed from the cartridge. Place the tab and tape in the toner-cartridge box to return for recycling.



3. Remove the orange cover from the toner cartridge.



4. Insert the toner cartridge in the printer, and then close the toner-cartridge door.




Remove and replacement: Toner cartridge (M28-M31)

- [Introduction](#)
- [Step 1: Remove the toner cartridge](#)
- [Step 2: Unpack a replacement toner cartridge](#)
- [Step 3: Install the toner cartridge](#)

Introduction

This document provides the procedures to remove and replace the toner cartridge.

 **IMPORTANT:** When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Before performing service

- Turn the printer power off.

 **CAUTION:** To prevent damage to the toner cartridge, do not expose it to light for more than a few minutes. Cover the toner cartridge if it must be removed from the printer for an extended period of time.

If toner gets on clothing, wipe it off by using a dry cloth and wash the clothes in cold water. Hot water sets toner into fabric.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts

Toner cartridge part numbers	
M28-M31 Europe, Russia, CIS, Middle East, and Africa only:	
CF244A (new)	HP 44A Black Toner Cartridge
CF244-67901 (service)	
M28-M31 North America, Latin America, Asia Pacific Countries/Regions (excluding China and India) only:	
CF248A (new)	HP 48A Black Toner Cartridge
CF248-67901 (service)	
M28-M31 China and India only:	
CF247A (new)	HP 47A Black Toner Cartridge
CF247-67901 (service)	

Required tools

- No special tools are needed to remove or install this assembly.

After performing service

- Make sure that the cartridge door is fully closed after replacing the toner cartridge.
- Turn the printer power on.

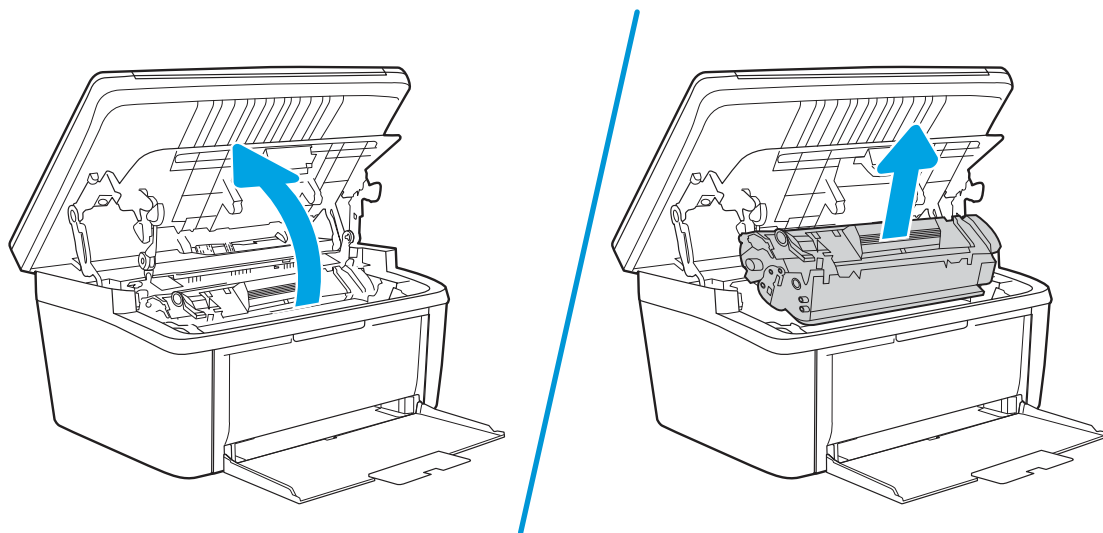
Post service test

No post service test is available for this assembly.

Step 1: Remove the toner cartridge

When a toner cartridge approaches the end of useful life, continue printing with the current cartridge until redistributing the toner no longer yields acceptable print quality.

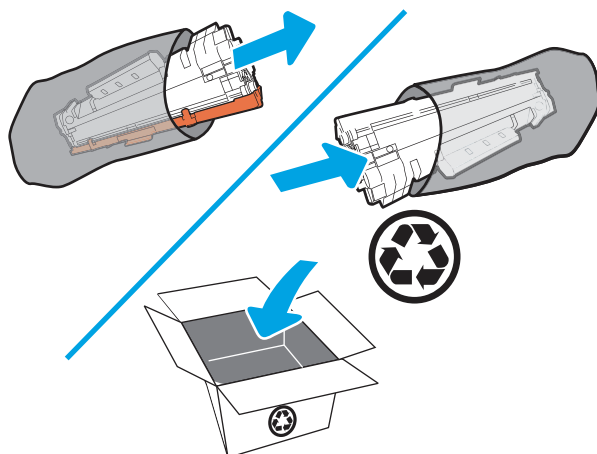
- ▲ Open the toner-cartridge door, and then remove the old toner cartridge.



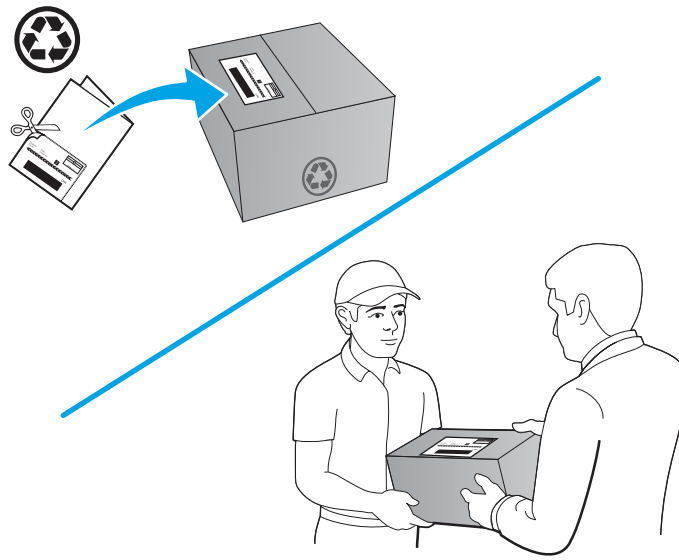
Step 2: Unpack a replacement toner cartridge

1. Remove the new toner cartridge packaging. Place the used toner cartridge in the bag and box for recycling.

⚠ CAUTION: To prevent damage to the toner cartridge, hold it by both ends. Do not touch the OPC cover or roller surface.

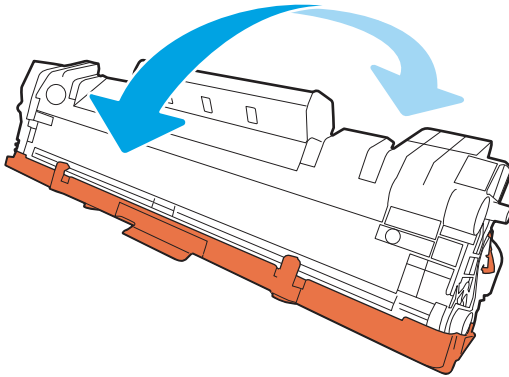


2. Use the pre-paid self-addressed label to return the used cartridge to HP for recycling (where available).

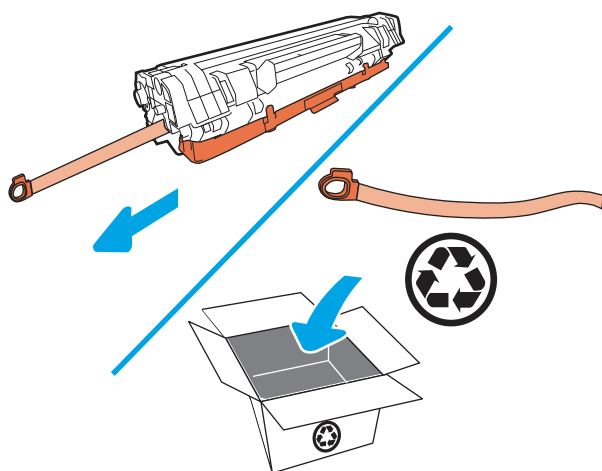


Step 3: Install the toner cartridge

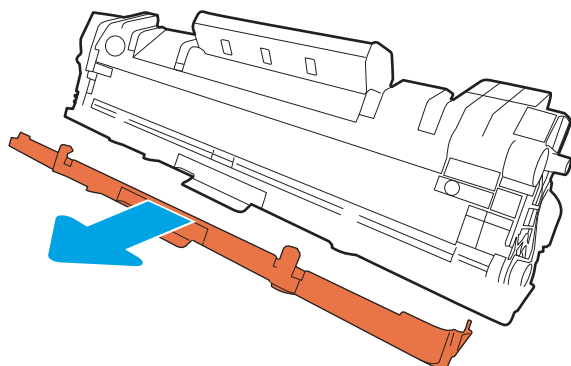
1. Grasp both sides of the toner cartridge and gently rock the toner cartridge to distribute the toner evenly inside the cartridge.



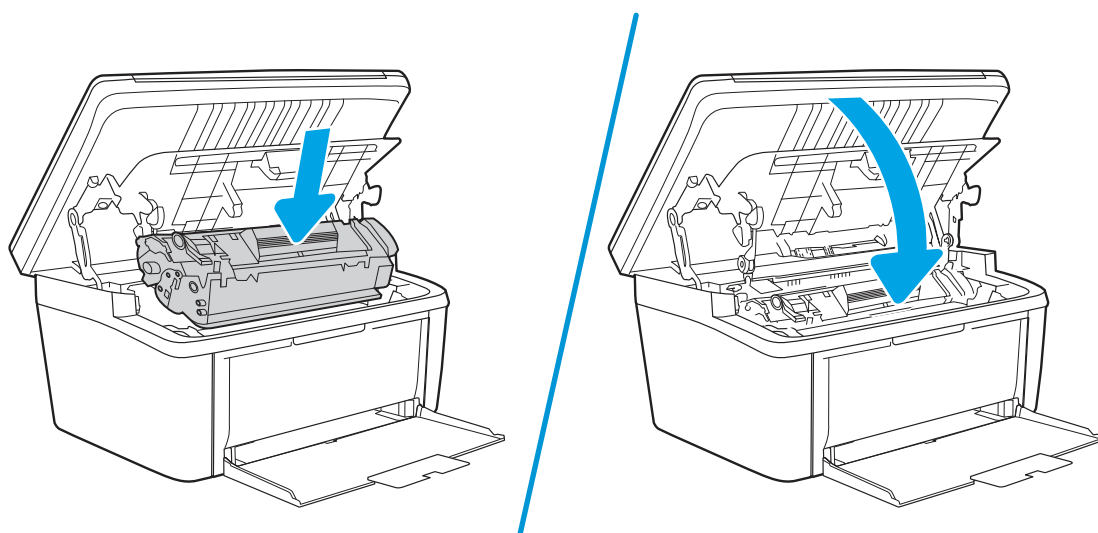
2. Bend the tab on the left side of the cartridge until the tab breaks loose, and then pull the tab until all the tape is removed from the cartridge. Place the tab and tape in the toner-cartridge box to return for recycling.



3. Remove the orange cover from the toner cartridge.



4. Insert the toner cartridge in the printer, and then close the toner-cartridge door.



Field Replaceable Units (FRUs) / Bench Repair Units (BRUs)

- [Removal and replacement: External panels, covers, and doors](#)
- [Removal and replacement: Internal parts and assemblies](#)

Removal and replacement: External panels, covers, and doors

- [Remove and replacement: Tray 1](#)
- [Remove and replacement: Cartridge door \(M14-M17\)](#)
- [Remove and replacement: Document lid \(M28-M31\)](#)
- [Remove and replacement: Formatter cover \(M14-M17\)](#)
- [Remove and replacement: Formatter cover \(MFP M28-M31\)](#)
- [Remove and replacement: Cartridge door \(MFP M28-M31\)](#)
- [Remove and replacement: Image scanner \(MFP M28-M31\)](#)
- [Remove and replacement: Lower cover \(M14-M17\)](#)
- [Remove and replacement: Lower cover \(MFP M28-M31\)](#)
- [Remove and replacement: Top cover \(MFP M28-M31\)](#)
- [Remove and replacement: Control panel \(M14-M17\)](#)

Remove and replacement: Tray 1

- [Introduction](#)
- [Step 1: Remove Tray 1](#)
- [Step 2: Unpack the replacement assembly](#)

Introduction

This document provides the procedures to remove and replace Tray 1.



IMPORTANT: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Before performing service

- Turn the printer power off.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts

Tray 1 part number	
RL2-2589-000CN	Tray, paper pickup (base model; M14-M17)
RL2-2590-000CN	Tray, paper pickup (wireless model; M14-M17)
RL2-2591-000CN	Tray, paper pickup (base EM model; M14-M17)
RL2-2592-000CN	Tray, paper pickup (wireless EM model; M14-M17)
RL2-2594-000CN	Tray, paper pickup (base model; M28-M31)
RL2-2595-000CN	Tray, paper pickup (wireless model; M28-M31)
RL2-2596-000CN	Tray, paper pickup (base EM model; M28-M31)
RL2-2597-000CN	Tray, paper pickup (wireless EM model; M28-M31)

Required tools

- No special tools are needed to remove or install this assembly.

After performing service

- Turn the printer power on.

Post service test

No post service test is available for this assembly.

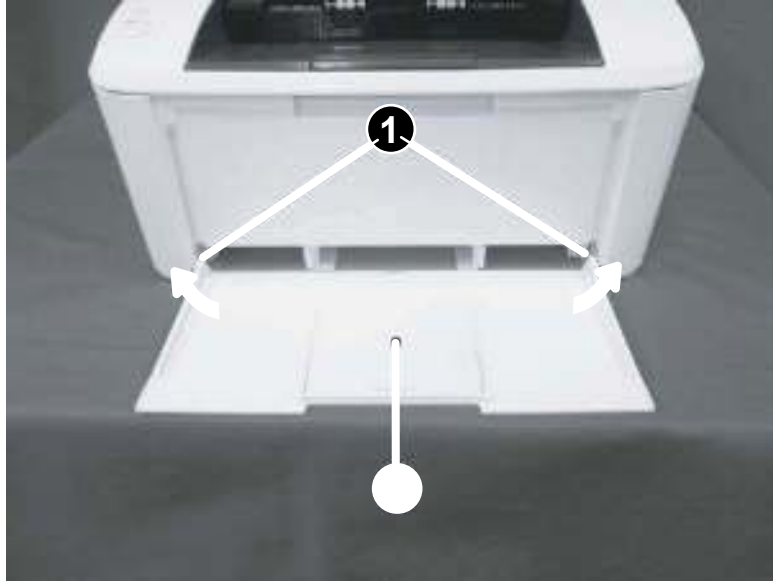
Step 1: Remove Tray 1

- ▲ Open Tray 1, gently flex the tray to release two bosses (callout 1), and then remove Tray 1 (callout 2).



Reinstallation tip: Reverse the removal steps to install the assembly.

Figure 1-2 Remove Tray 1



Step 2: Unpack the replacement assembly

1. Dispose of the defective part.



NOTE: HP recommends responsible disposal of the defective part.

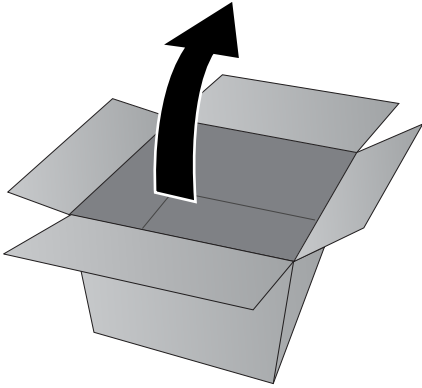
www.hp.com/recycle



2. Unpack the replacement part from the packaging.

⚠ CAUTION: If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands or before touching rollers or pads.

📋 IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.



Remove and replacement: Cartridge door (M14-M17)

- [Introduction](#)
- [Step 1: Remove the cartridge door \(M14-M17\)](#)
- [Step 2: Unpack the replacement assembly](#)

Introduction

This document provides the procedures to remove and replace the cartridge door (M14-M17).



IMPORTANT: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Before performing service

- Turn the printer power off.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts

Cartridge door (M14-M17) part number	
RM2-2118-000CN	Cartridge door (base model; M14-M17)
RM2-2119-000CN	Cartridge door (wireless model; M14-M17)

Required tools

- #2 Phillips screwdriver with a magnetic tip
- Small flat-blade screw driver (optional)

After performing service

- Make sure that the cartridge door is fully closed after replacing it.
- Turn the printer power on.

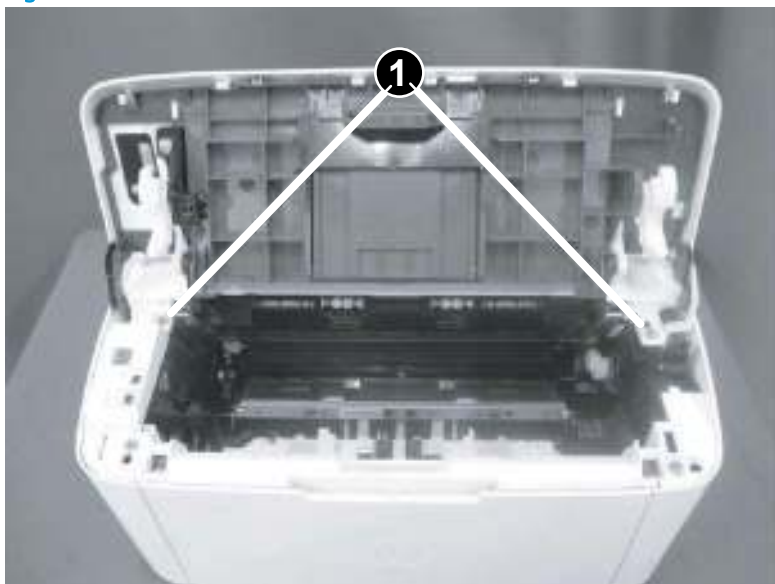
Post service test

No post service test is available for this assembly.

Step 1: Remove the cartridge door (M14-M17)

1. Open the cartridge door, and then remove two screws (callout 1).

Figure 1-3 Remove two screw

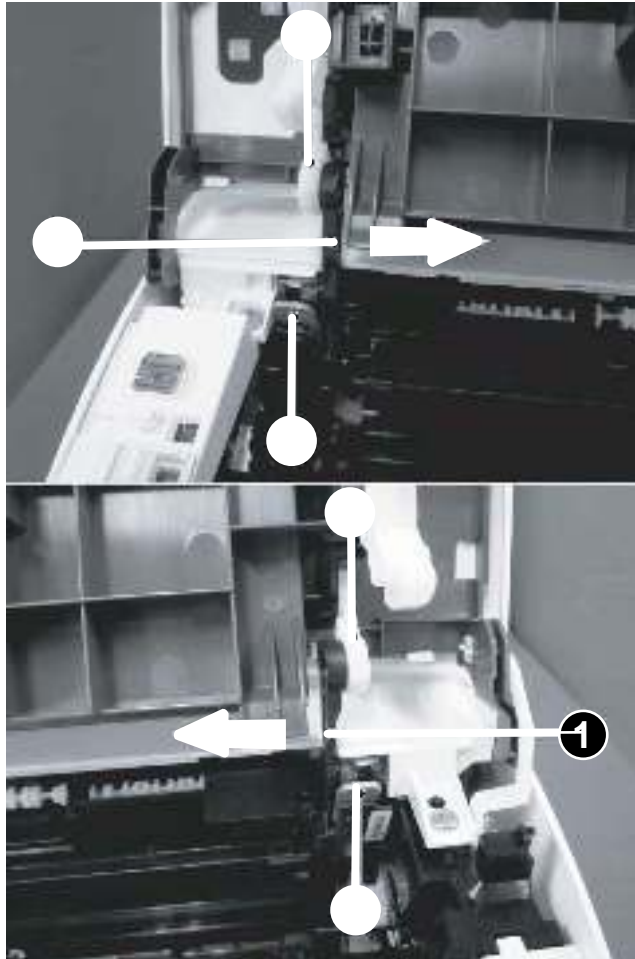


2. Before proceeding, take note of the following disassembly instructions.

When removing the link arm (callout 2) from the pressure release lever (callout 1), the pressure plate (callout 3) might be deformed if the pressure release lever moves in the direction shown below.

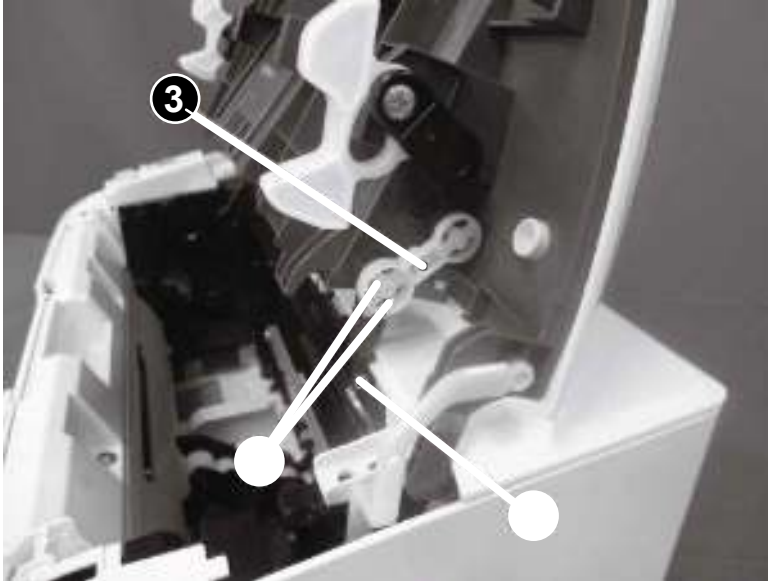
CAUTION: Do not deform the pressure plate.

Figure 1-4 Special disassembly instructions



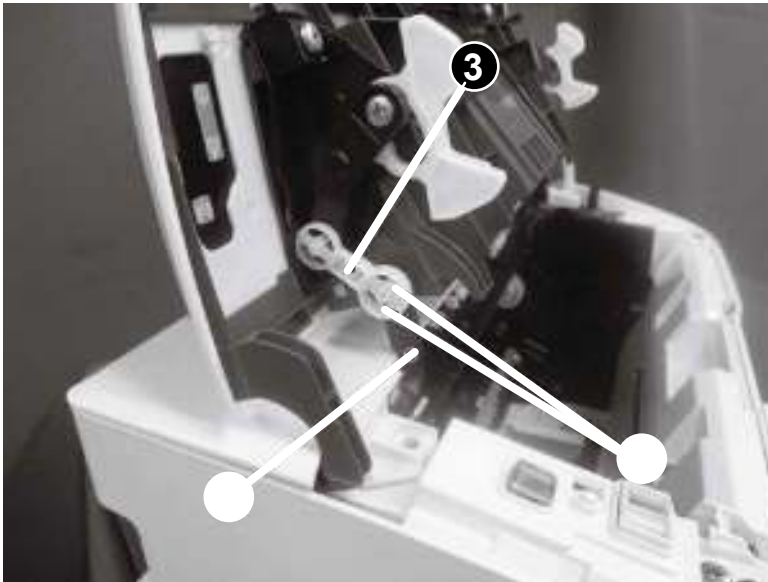
3. Release two tabs (callout 1), and then remove one link arm (callout 3) from the pressure release lever (callout 2).

Figure 1-5 Remove the link arm



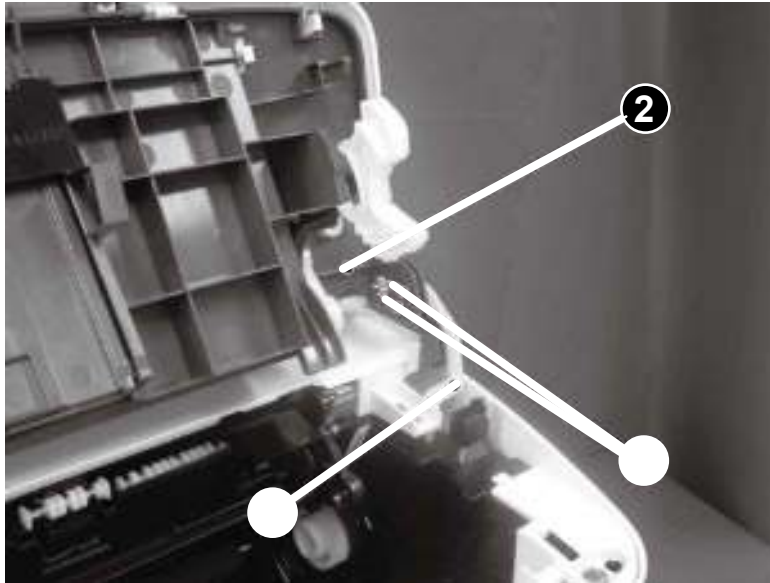
4. Release two tabs (callout 1), and then remove one link arm (callout 3) from the pressure release lever (callout 2).

Figure 1-6 Remove the link arm



5. Release two tabs (callout 1), and then remove one link arm (callout 3) from the cartridge door assembly (callout 2).

Figure 1-7 Remove the link arm



6. Release one tab (callout 1), support the cartridge door (callout 2), and then remove it.

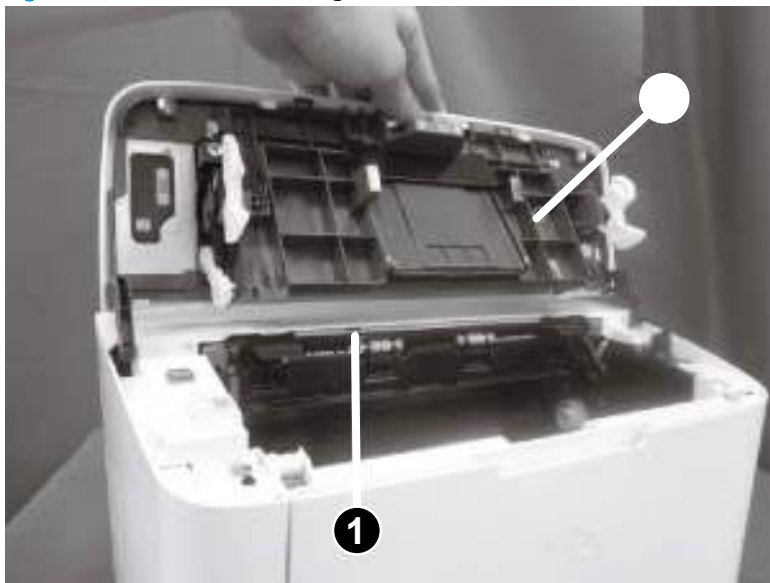


NOTE: If the cartridge door is removed to access other assembly, stop at this step.



Reinstallation tip: Reverse the removal steps to install the door.

Figure 1-8 Remove the cartridge door



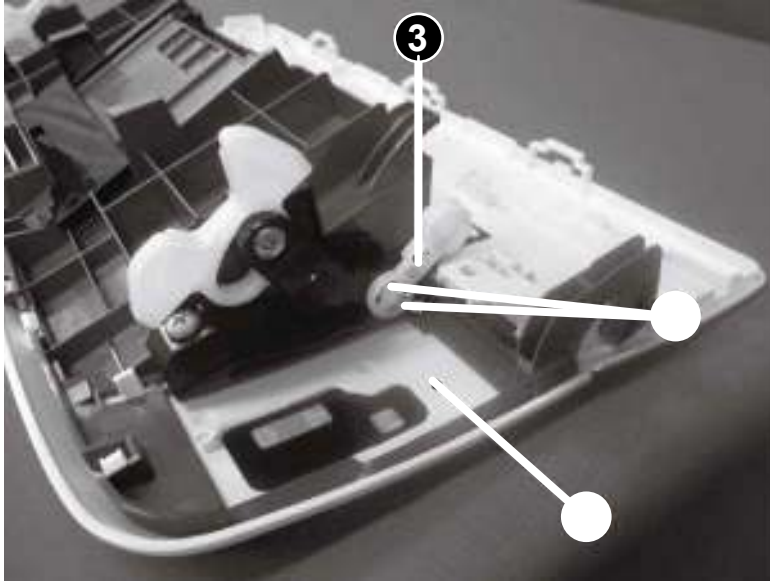
7. **Optional step:** If a replacement cartridge door is being installed, do the following:



NOTE: Install the link arms on the replacement door.

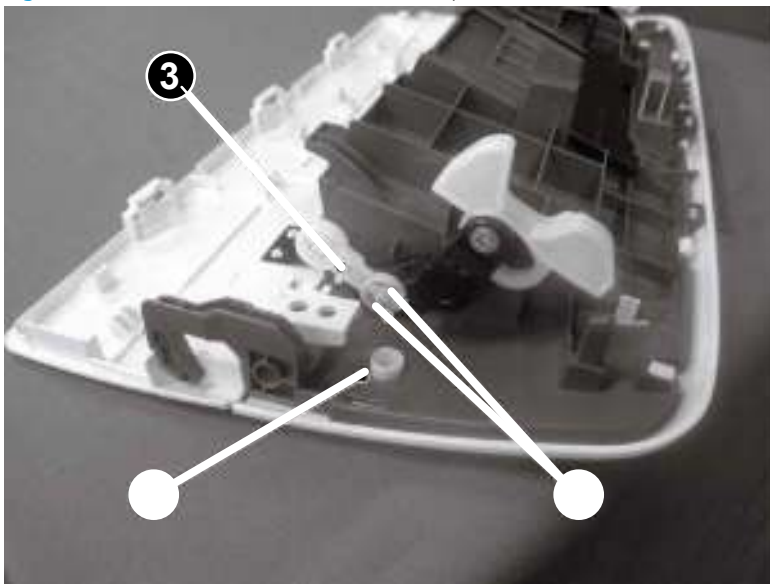
- a. Release two tabs (callout 1), and then remove the one link arm (callout 3) from the door assembly (callout 2).

Figure 1-9 Install the link arms on the replacement door



- b. Release two tabs (callout 1), and then remove the one link arm (callout 3) from the door assembly (callout 2).

Figure 1-10 Install the link arms on the replacement door



Step 2: Unpack the replacement assembly

1. Dispose of the defective part.



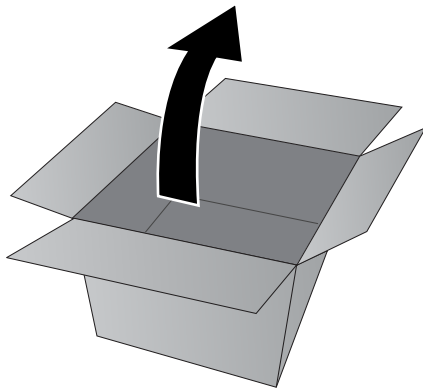
NOTE: HP recommends responsible disposal of the defective part.

www.hp.com/recycle

2. Unpack the replacement part from the packaging.

CAUTION: If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands or before touching rollers or pads.

IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.




Remove and replacement: Document lid (M28-M31)

- [Introduction](#)
- [Step 1: Remove the document lid \(M28-M31\)](#)
- [Step 2: Unpack the replacement assembly](#)

Introduction

This document provides the procedures to remove and replace the document lid (M28-M31).

 **IMPORTANT:** When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Before performing service

- Turn the printer power off.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts

Document lid (M28-M31) part number	
RM2-2136-000CN	Document lid (M28-M31)

Required tools

- No special tools are needed to remove or install this assembly.

After performing service

- Make sure that the document lid is fully closed after replacing it.
- Turn the printer power on.

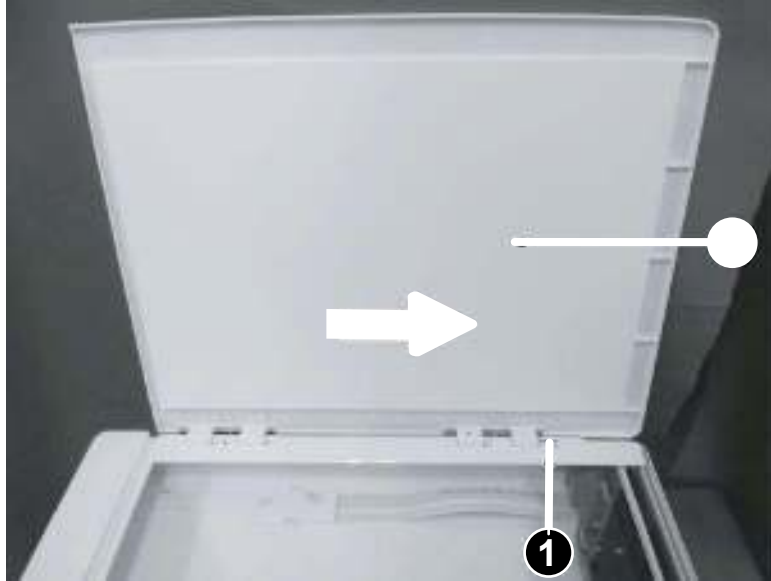
Post service test

No post service test is available for this assembly.

Step 1: Remove the document lid (M28-M31)

- ▲ Do the following:
 - Open the document lid.
 - Press and hold one tab (callout 1), and then slide the document lid (callout 2) as shown below to remove it.

Figure 1-11 Remove the document lid (M28-M31)



Step 2: Unpack the replacement assembly

1. Dispose of the defective part.



NOTE: HP recommends responsible disposal of the defective part.

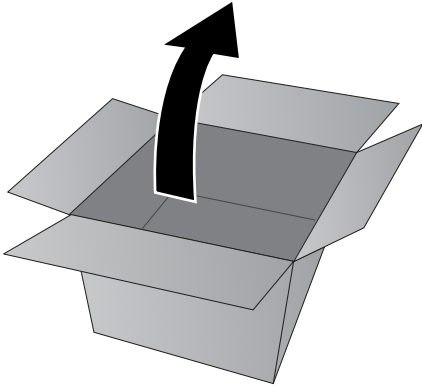
www.hp.com/recycle



2. Unpack the replacement part from the packaging.

⚠ CAUTION: If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands or before touching rollers or pads.

📋 IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.



Remove and replacement: Formatter cover (M14-M17)

- [Introduction](#)
- [Step 1: Remove the cartridge door \(M14-M17\)](#)
- [Step 2: Remove the formatter cover \(M14-M17\)](#)
- [Step 3: Unpack the replacement assembly](#)

Introduction

This document provides the procedures to remove and replace the formatter cover (M14-M17).



IMPORTANT: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Before performing service

- Turn the printer power off.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts

Formatter cover (M14-M17) part number	
RC5-4239-000CN	Formatter cover (M14-M17)

Required tools

- No special tools are needed to remove or install this assembly.

After performing service

- Turn the printer power on.

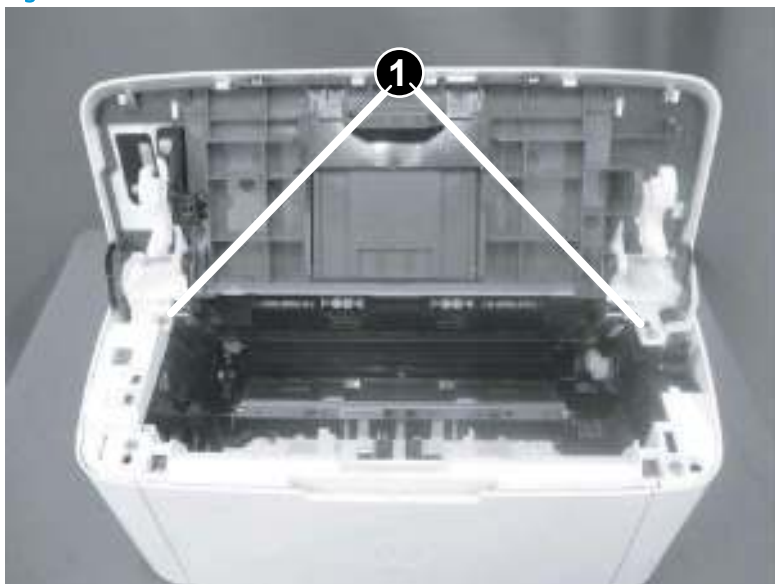
Post service test

No post service test is available for this assembly.

Step 1: Remove the cartridge door (M14-M17)

1. Open the cartridge door, and then remove two screws (callout 1).

Figure 1-12 Remove two screw

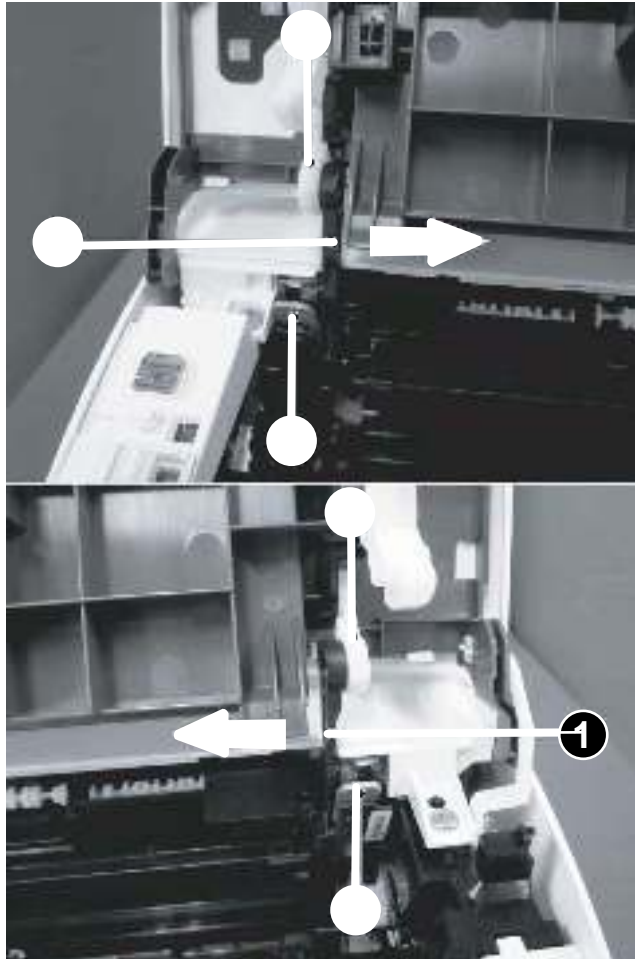


2. Before proceeding, take note of the following disassembly instructions.

When removing the link arm (callout 2) from the pressure release lever (callout 1), the pressure plate (callout 3) might be deformed if the pressure release lever moves in the direction shown below.

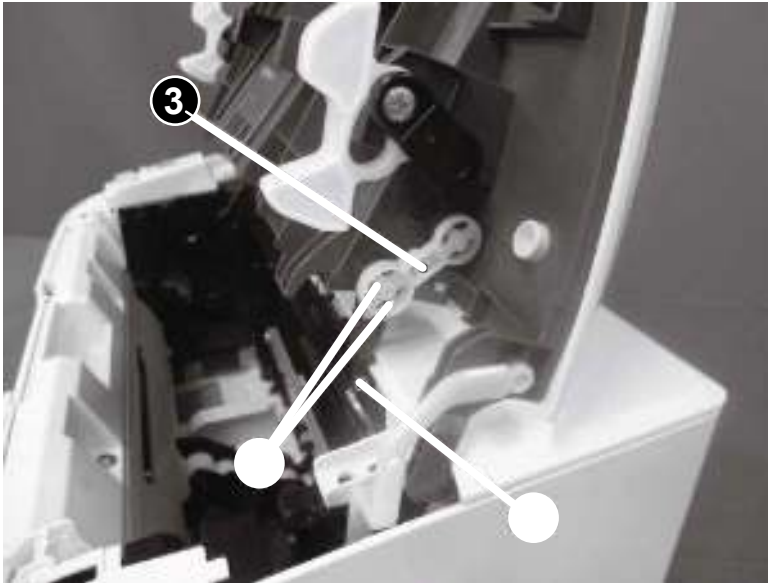
 **CAUTION:** Do not deform the pressure plate.

Figure 1-13 Special disassembly instructions



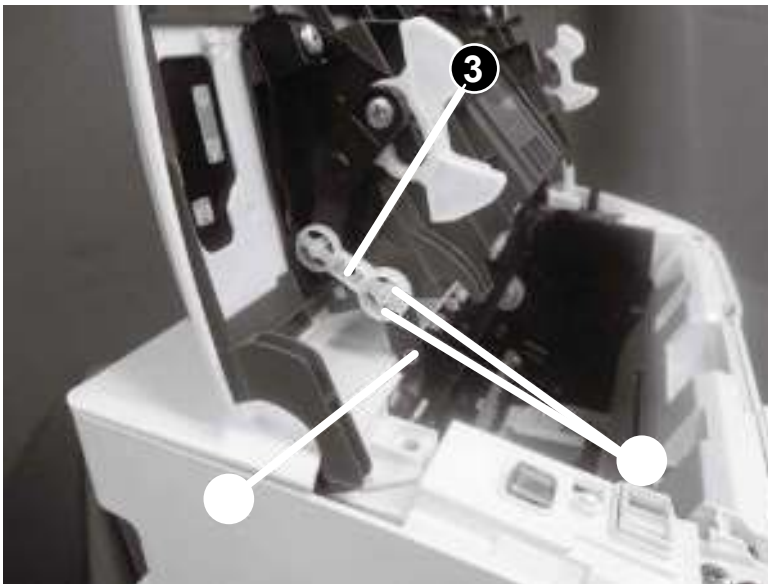
3. Release two tabs (callout 1), and then remove one link arm (callout 3) from the pressure release lever (callout 2).

Figure 1-14 Remove the link arm



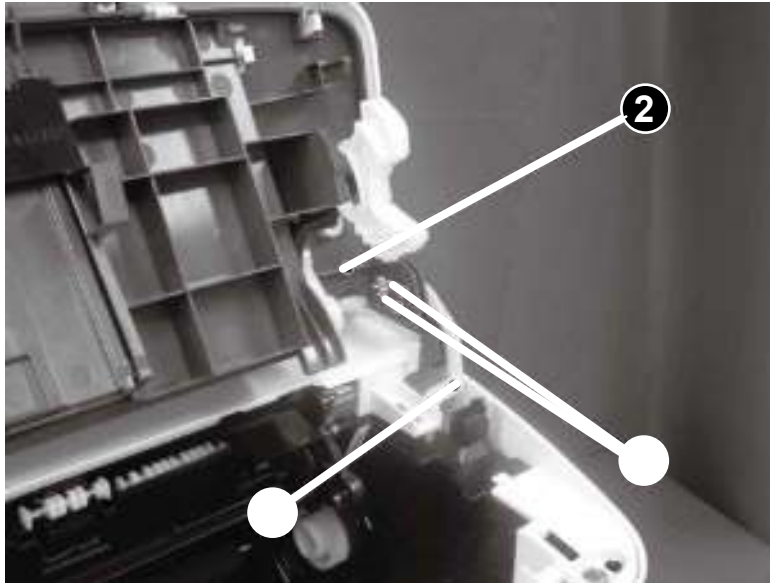
4. Release two tabs (callout 1), and then remove one link arm (callout 3) from the pressure release lever (callout 2).

Figure 1-15 Remove the link arm



5. Release two tabs (callout 1), and then remove one link arm (callout 3) from the cartridge door assembly (callout 2).

Figure 1-16 Remove the link arm



6. Release one tab (callout 1), support the cartridge door (callout 2), and then remove it.

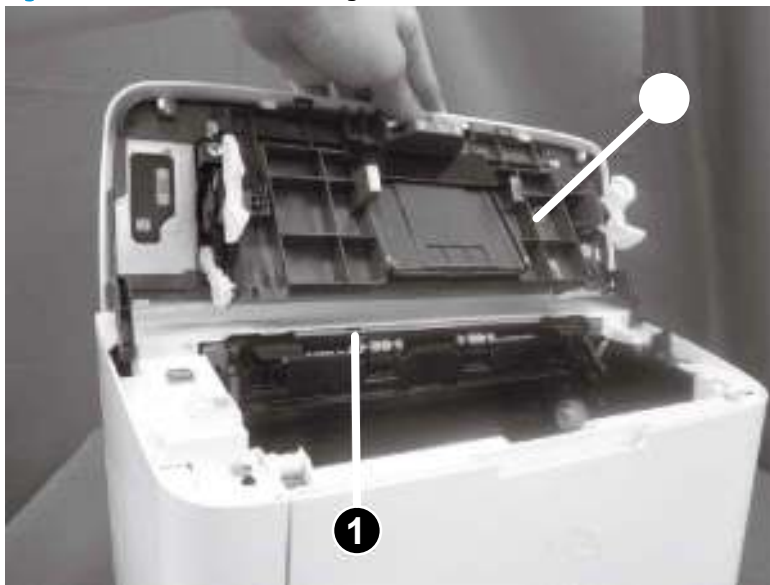


NOTE: If the cartridge door is removed to access other assembly, stop at this step.



Reinstallation tip: Reverse the removal steps to install the door.

Figure 1-17 Remove the cartridge door



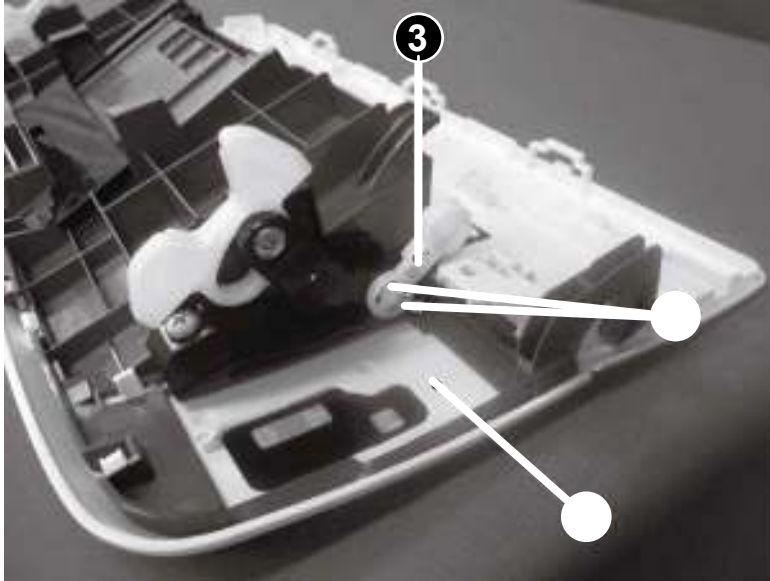
7. **Optional step:** If a replacement cartridge door is being installed, do the following:



NOTE: Install the link arms on the replacement door.

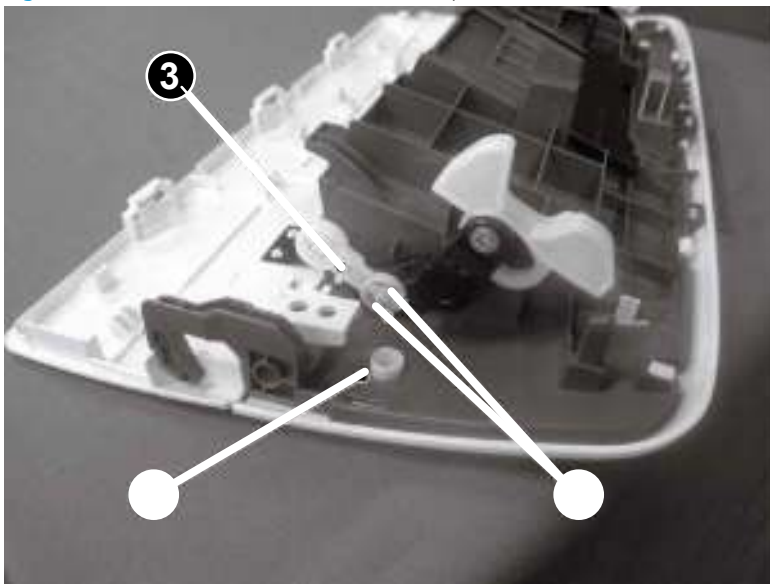
- a. Release two tabs (callout 1), and then remove the one link arm (callout 3) from the door assembly (callout 2).

Figure 1-18 Install the link arms on the replacement door



- b. Release two tabs (callout 1), and then remove the one link arm (callout 3) from the door assembly (callout 2).

Figure 1-19 Install the link arms on the replacement door



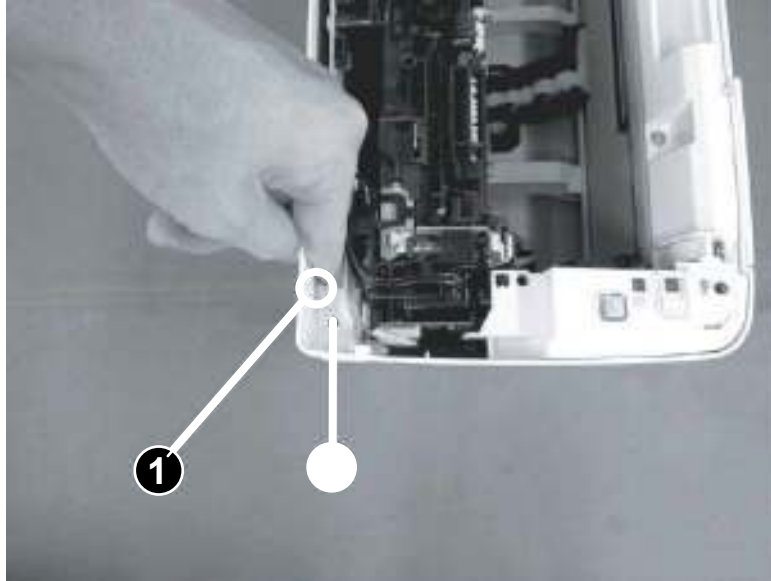
Step 2: Remove the formatter cover (M14-M17)

- ▲ Position the printer front side down.

Release one tab (callout 1), and then remove the formatter cover (callout 2).

💡 **Reinstallation tip:** Reverse the removal steps to install the assembly.

Figure 1-20 Remove the formatter cover (M14-M17)



Step 3: Unpack the replacement assembly

1. Dispose of the defective part.



NOTE: HP recommends responsible disposal of the defective part.

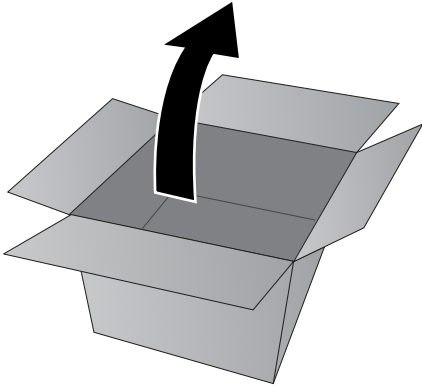
www.hp.com/recycle



2. Unpack the replacement part from the packaging.

⚠ CAUTION: If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands or before touching rollers or pads.

📋 IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.



Remove and replacement: Formatter cover (MFP M28-M31)

- [Introduction](#)
- [Step 1: Remove the formatter cover \(MFP M28-M31\)](#)
- [Step 2: Unpack the replacement assembly](#)

Introduction

This document provides the procedures to remove and replace the formatter cover (MFP M28-M31).



IMPORTANT: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Before performing service

- Turn the printer power off.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts

Formatter cover (MFP M28-M31) part number	
RC5-4186-000CN	Formatter cover (MFP M28-M31)

Required tools

- No special tools are needed to remove or install this assembly.

After performing service

- Turn the printer power on.

Post service test

No post service test is available for this assembly.

Step 1: Remove the formatter cover (MFP M28-M31)

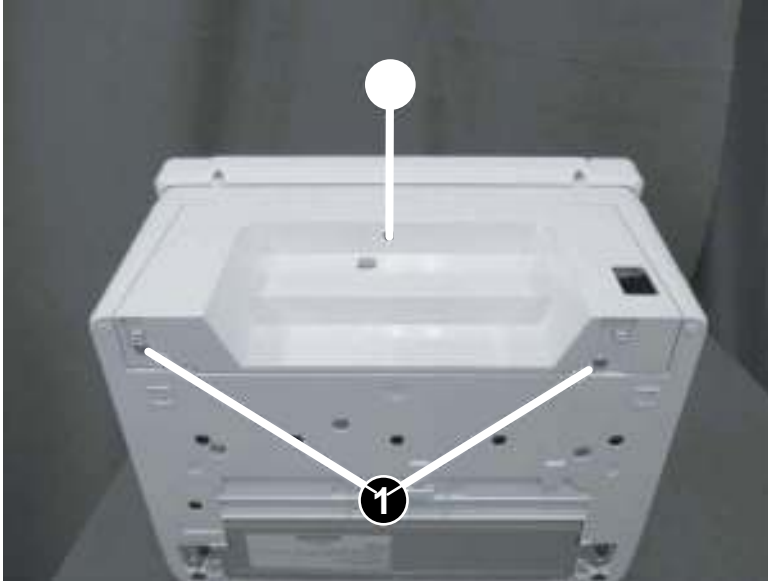
- ▲ Position the printer front side down.

Remove two screws (callout 1), and then remove the formatter cover (callout 2).



Reinstallation tip: Reverse the removal steps to install the assembly.

Figure 1-21 Remove the formatter cover (MFP M28-M31)



Step 2: Unpack the replacement assembly

1. Dispose of the defective part.



NOTE: HP recommends responsible disposal of the defective part.

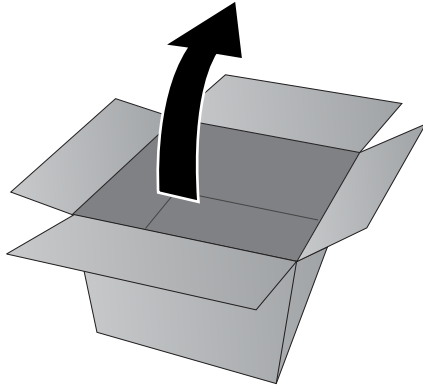
www.hp.com/recycle



2. Unpack the replacement part from the packaging.

⚠ CAUTION: If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands or before touching rollers or pads.

📋 IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.



Remove and replacement: Cartridge door (MFP M28-M31)

- [Introduction](#)
- [Step 1: Remove the formatter cover \(MFP M28-M31\)](#)
- [Step 2: Remove the cartridge door \(MFP M28-M31\)](#)
- [Step 3: Unpack the replacement assembly](#)

Introduction

This document provides the procedures to remove and replace the cartridge door (MFP M28-M31).



IMPORTANT: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Before performing service

- Turn the printer power off.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts

Cartridge door (MFP M28-M31) part number	
RM2-2515-000CN	Cartridge door (MFP M28-M31)

Required tools

- #2 Phillips screwdriver with a magnetic tip
- Small flat-blade screw driver (optional)

After performing service

- Make sure that the cartridge door is fully closed after replacing it.
- Turn the printer power on.

Post service test

No post service test is available for this assembly.

Step 1: Remove the formatter cover (MFP M28-M31)

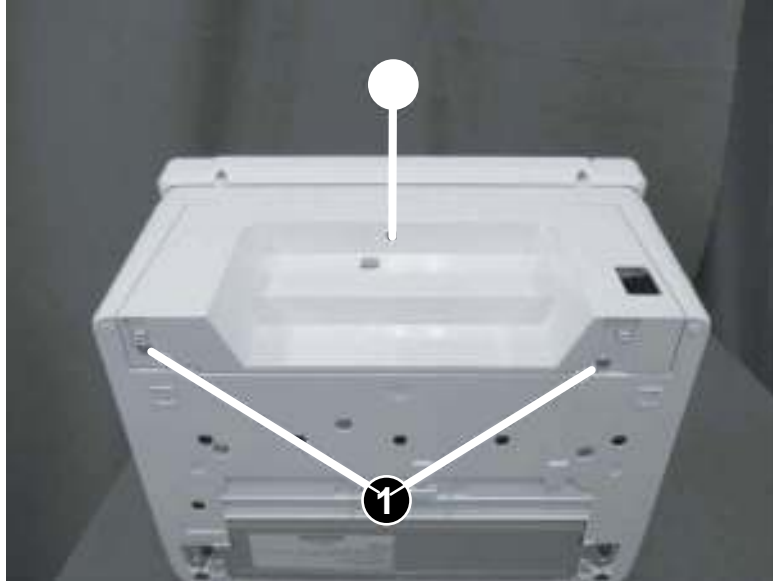
- ▲ Position the printer front side down.

Remove two screws (callout 1), and then remove the formatter cover (callout 2).



Reinstallation tip: Reverse the removal steps to install the assembly.

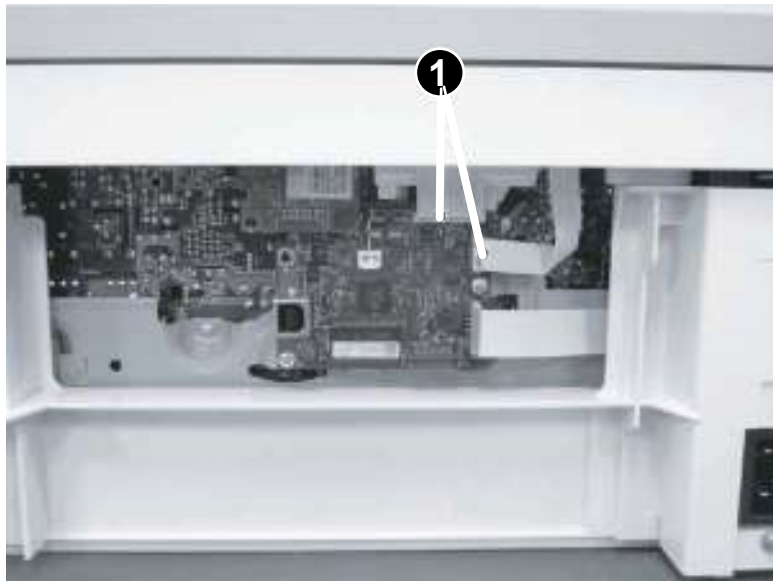
Figure 1-22 Remove the formatter cover (MFP M28-M31)



Step 2: Remove the cartridge door (MFP M28-M31)

1. Disconnect two flat flexible cables (FFCs) (callout 1).

Figure 1-23 Disconnect two FFCs

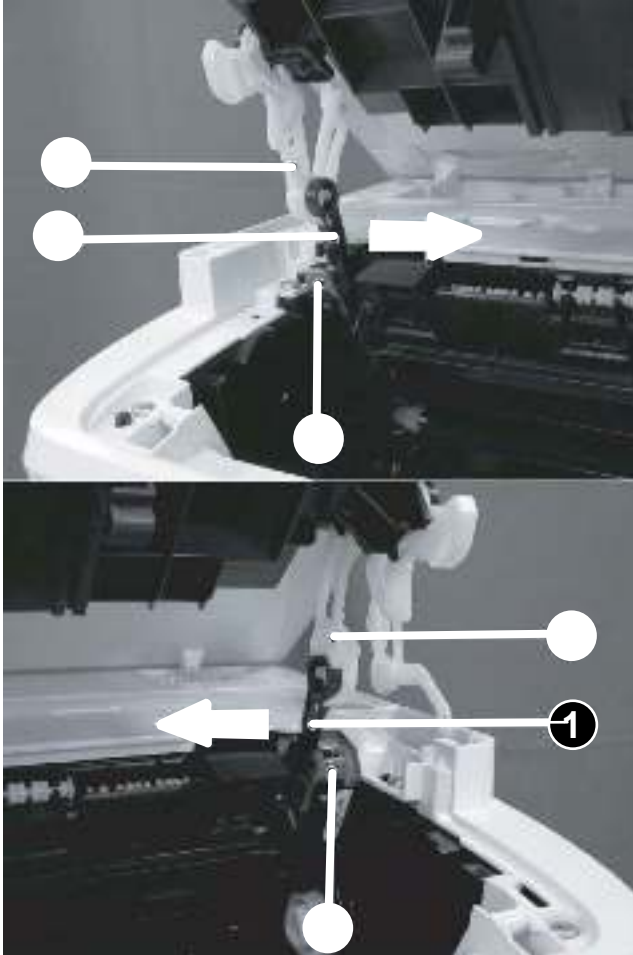


2. Before proceeding, take note of the following disassembly instructions.

When removing the link arm (callout 2) from the pressure release lever (callout 1), the pressure plate (callout 3) might be deformed if the pressure release lever moves in the direction shown below.

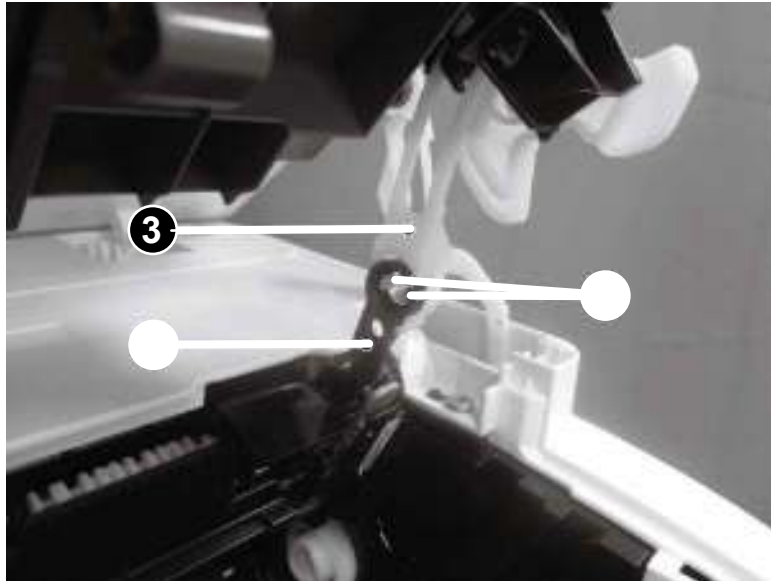
 **CAUTION:** Do not deform the pressure plate.

Figure 1-24 Special disassembly instructions



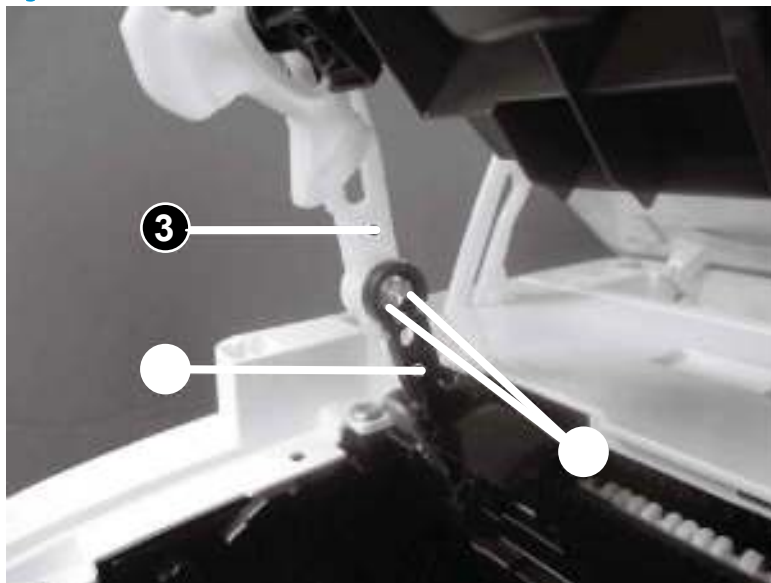
3. Open the image scanner, release two tabs (callout 1), remove one link arm (callout 3) from the pressure release lever (callout 2).

Figure 1-25 Remove the link arm



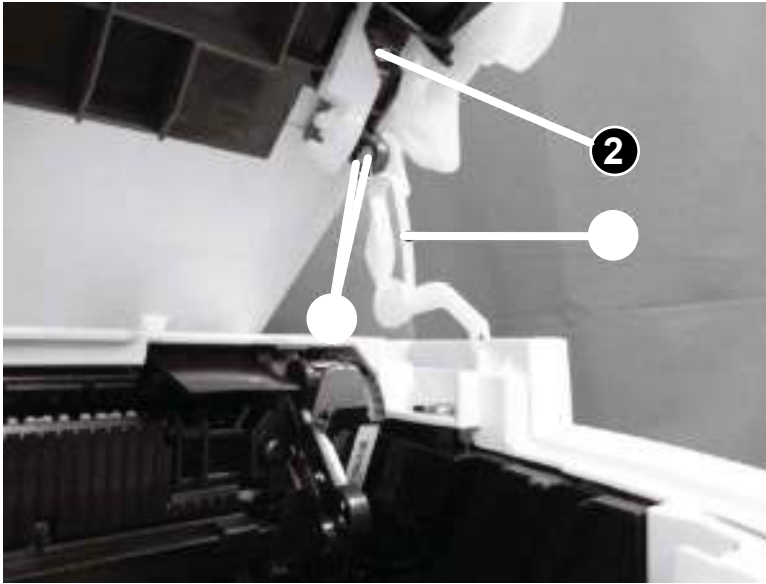
4. Release two tabs (callout 1), and then remove one link arm (callout 3) from the pressure release lever (callout 2).

Figure 1-26 Remove the link arm



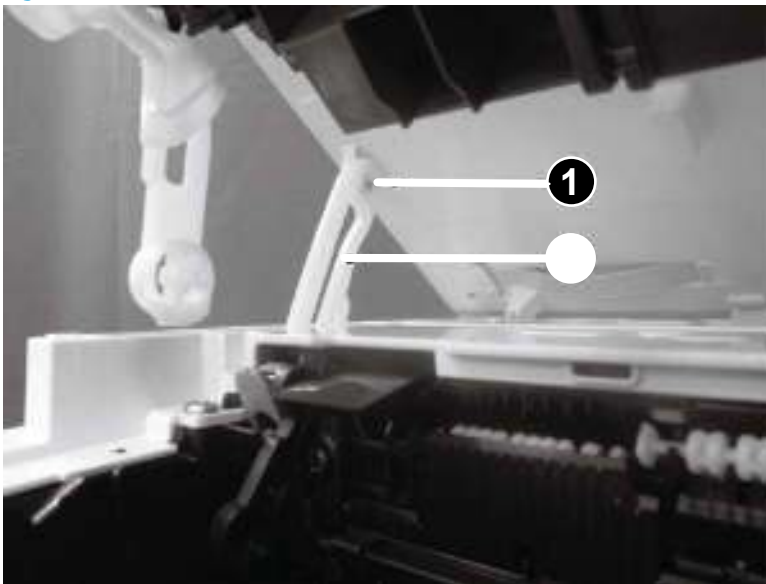
5. Release two tabs (callout 1), and then remove one link arm (callout 3) from the cartridge door (callout 2).

Figure 1-27 Remove the link arm



6. Remove one link arm (callout 2) from the shaft (callout 1).

Figure 1-28 Remove the link arm



7. Pull two flat-flexible cables (FFCs) (callout 2) out and away from the top cover (callout 1), and then slide the image scanner (callout 3) as shown below to remove it.


 **CAUTION:** Do not damage the FFCs.

Figure 1-29 Remove the image scanner



8. Do the following:
 - Remove two link two link arms (callout 2) from the cartridge door (callout 1).

 **NOTE:** Install the link arms on the replacement door.

- Remove two screws (callout 3).
- Remove the cartridge door (callout 1) from the image scanner (callout 4).


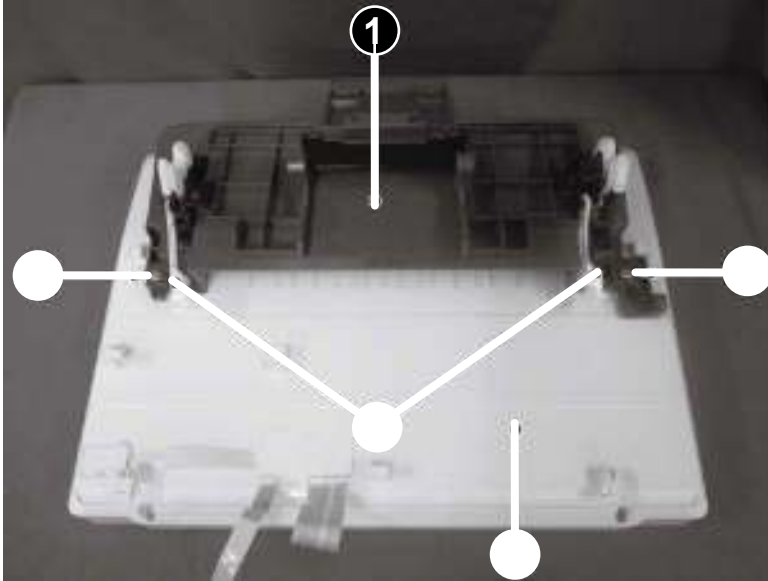
 **Reinstallation tip:** Reverse the removal steps to install the assembly.

Figure 1-30 Remove the cartridge door



Step 3: Unpack the replacement assembly

1. Dispose of the defective part.



NOTE: HP recommends responsible disposal of the defective part.

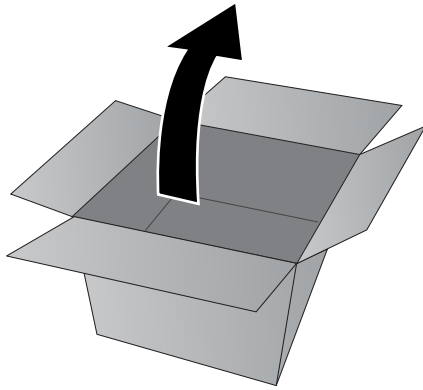
www.hp.com/recycle



2. Unpack the replacement part from the packaging.

CAUTION: If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands or before touching rollers or pads.

IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.



Remove and replacement: Image scanner (MFP M28-M31)

- [Introduction](#)
- [Step 1: Remove the formatter cover \(MFP M28-M31\)](#)
- [Step 2: Remove the image scanner \(MFP M28-M31\)](#)
- [Step 3: Unpack the replacement assembly](#)

Introduction

This document provides the procedures to remove and replace the image scanner (MFP M28-M31).



IMPORTANT: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Before performing service

- Turn the printer power off.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts

Image scanner (MFP M28-M31) part number	
RM2-2133-000CN	Image scanner (base model; MFP M28-M31)
RM2-2134-000CN	Image scanner (wireless model; MFP M28-M31)
RM2-2135-000CN	Image scanner (EM model; MFP M28-M31)

Required tools

- #2 Phillips screwdriver with a magnetic tip
- Small flat-blade screw driver (optional)

After performing service

- Make sure that the image scanner is fully closed after replacing it.
- Turn the printer power on.

Post service test

Make a copy using the image scanner and verify print quality is acceptable.

Step 1: Remove the formatter cover (MFP M28-M31)

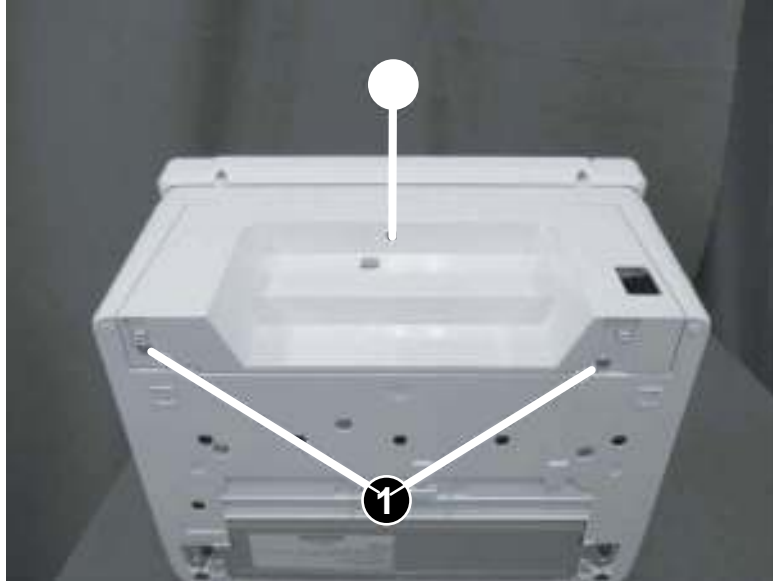
- ▲ Position the printer front side down.

Remove two screws (callout 1), and then remove the formatter cover (callout 2).



Reinstallation tip: Reverse the removal steps to install the assembly.

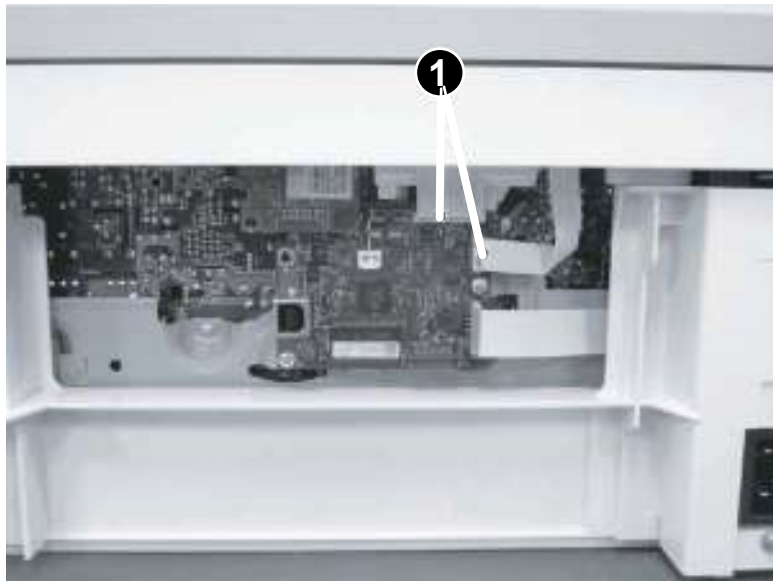
Figure 1-31 Remove the formatter cover (MFP M28-M31)



Step 2: Remove the image scanner (MFP M28-M31)

1. Disconnect two flat flexible cables (FFCs) (callout 1).

Figure 1-32 Disconnect two FFCs

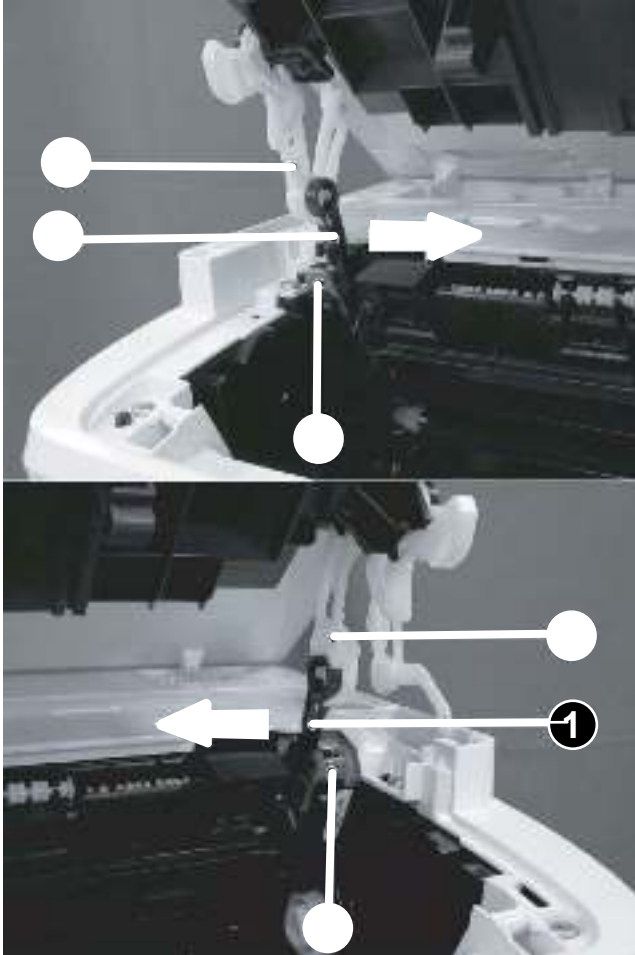


2. Before proceeding, take note of the following disassembly instructions.

When removing the link arm (callout 2) from the pressure release lever (callout 1), the pressure plate (callout 3) might be deformed if the pressure release lever moves in the direction shown below.

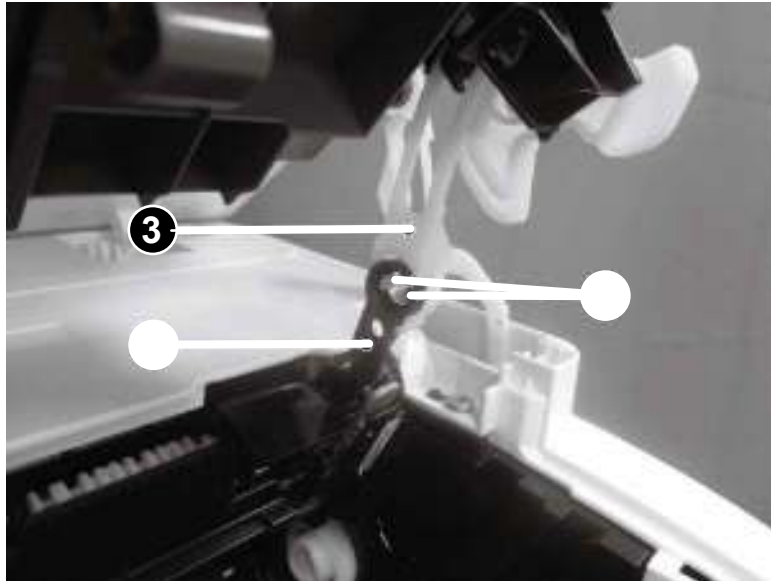
 **CAUTION:** Do not deform the pressure plate.

Figure 1-33 Special disassembly instructions



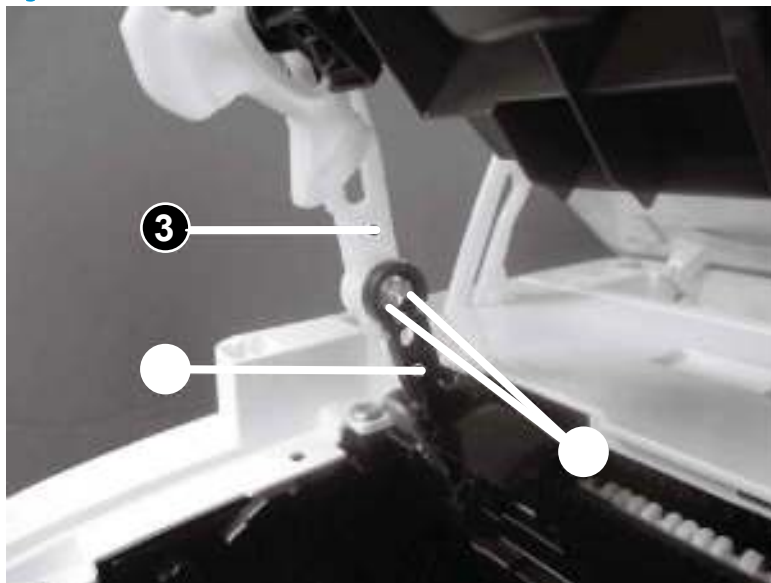
3. Open the image scanner, release two tabs (callout 1), remove one link arm (callout 3) from the pressure release lever (callout 2).

Figure 1-34 Remove the link arm



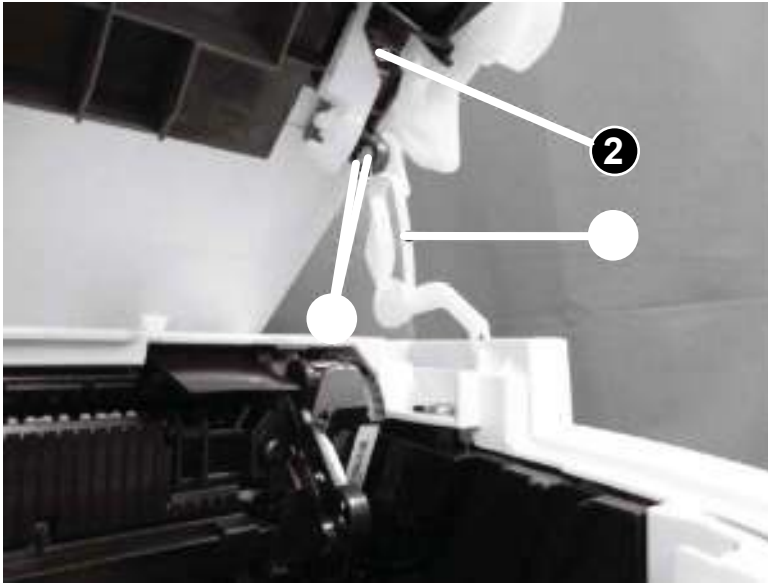
4. Release two tabs (callout 1), and then remove one link arm (callout 3) from the pressure release lever (callout 2).

Figure 1-35 Remove the link arm



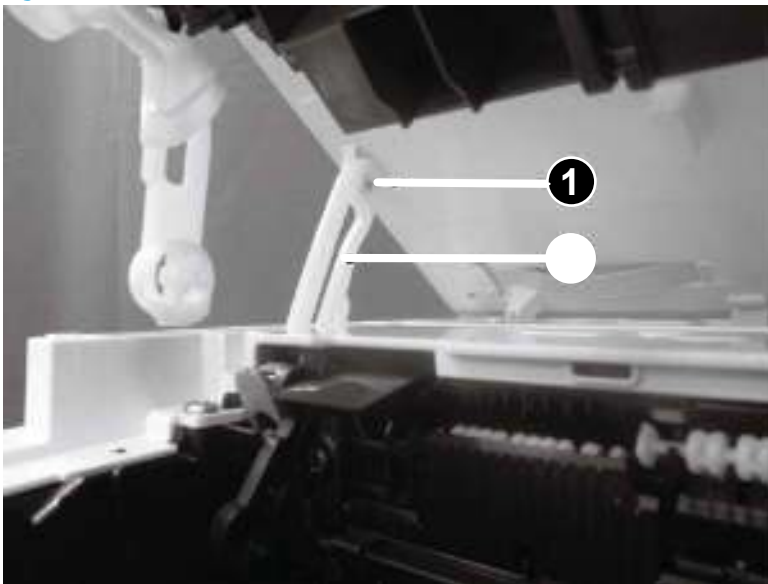
5. Release two tabs (callout 1), and then remove one link arm (callout 3) from the cartridge door (callout 2).

Figure 1-36 Remove the link arm



6. Remove one link arm (callout 2) from the shaft (callout 1).

Figure 1-37 Remove the link arm



7. Pull two flat-flexible cables (FFCs) (callout 2) out and away from the top cover (callout 1), and then slide the image scanner (callout 3) as shown below to remove it.

CAUTION: Do not damage the FFCs.

Reinstallation tip: Reverse the removal steps to install the assembly.

Figure 1-38 Remove the image scanner

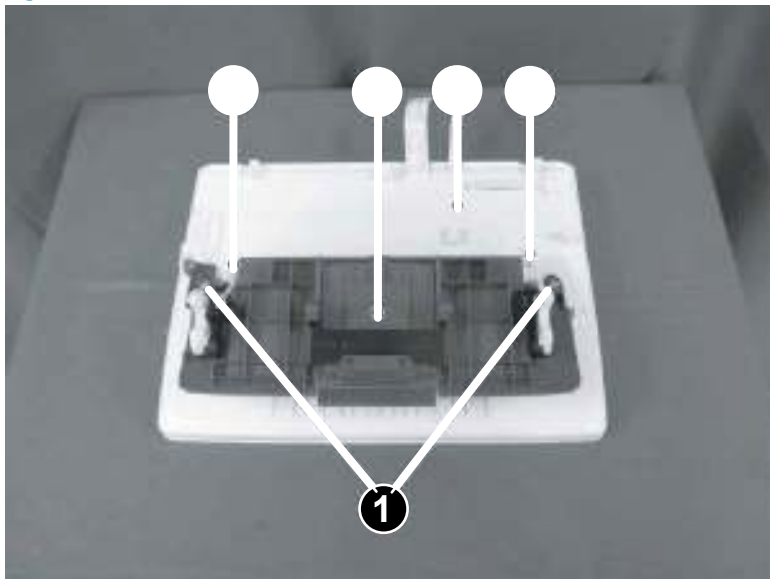


8. For a replacement image scanner, do the following:

NOTE: If the image scanner is removed to access other assemblies, skip this step.

- Remove two screws (callout 1).
- Remove the cartridge door (callout 3) (with the link arms; callout 4) from the image scanner (callout 2).

Figure 1-39 Remove the cartridge door



Step 3: Unpack the replacement assembly

1. Dispose of the defective part.



NOTE: HP recommends responsible disposal of the defective part.

www.hp.com/recycle



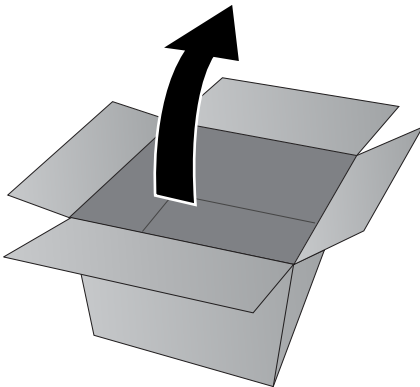
2. Unpack the replacement part from the packaging.



CAUTION: If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands or before touching rollers or pads.



IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.



Remove and replacement: Lower cover (M14-M17)

- [Introduction](#)
- [Step 1: Remove the cartridge door \(M14-M17\)](#)
- [Step 2: Remove the formatter cover \(M14-M17\)](#)
- [Step 3: Remove the lower cover \(M14-M17\)](#)
- [Step 4: Unpack the replacement assembly](#)

Introduction

This document provides the procedures to remove and replace the lower cover (M14-M17).



IMPORTANT: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Before performing service

- Turn the printer power off.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts

Lower cover (M14-M17) part number	
RM2-2105-000CN	Lower cover (base model; M14-M17)
RM2-2104-000CN	Lower cover (wireless model; M14-M17)

Required tools

- #2 Phillips screwdriver with a magnetic tip

After performing service

- Turn the printer power on.

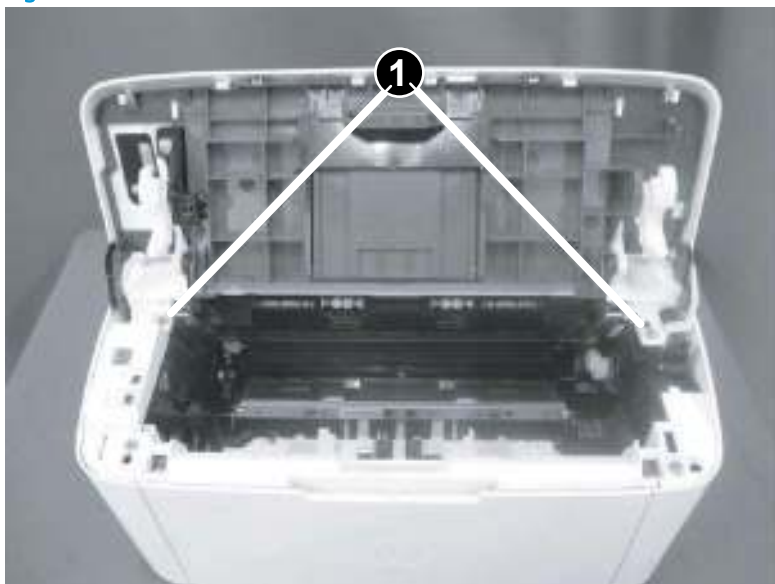
Post service test

No post service test is available for this assembly.

Step 1: Remove the cartridge door (M14-M17)

1. Open the cartridge door, and then remove two screws (callout 1).

Figure 1-40 Remove two screw

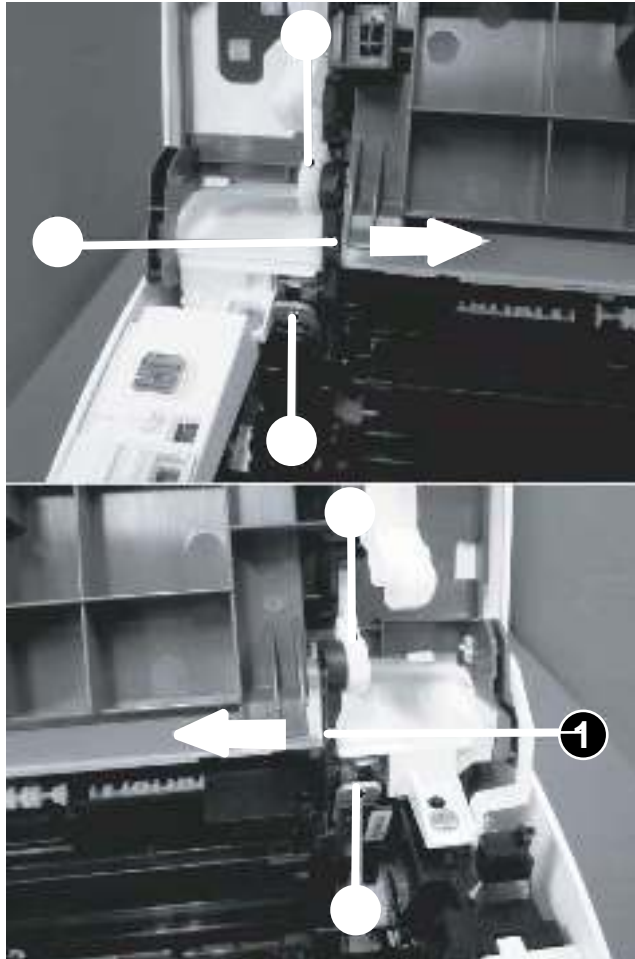


2. Before proceeding, take note of the following disassembly instructions.

When removing the link arm (callout 2) from the pressure release lever (callout 1), the pressure plate (callout 3) might be deformed if the pressure release lever moves in the direction shown below.

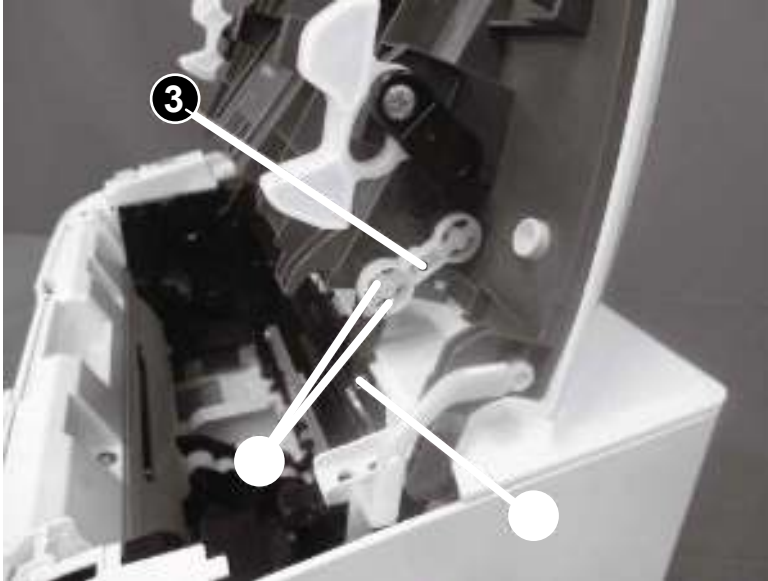
 **CAUTION:** Do not deform the pressure plate.

Figure 1-41 Special disassembly instructions



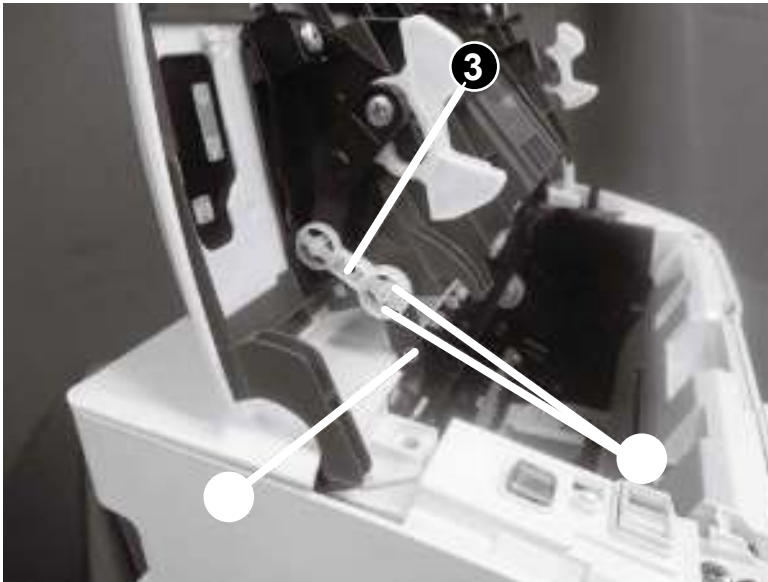
3. Release two tabs (callout 1), and then remove one link arm (callout 3) from the pressure release lever (callout 2).

Figure 1-42 Remove the link arm



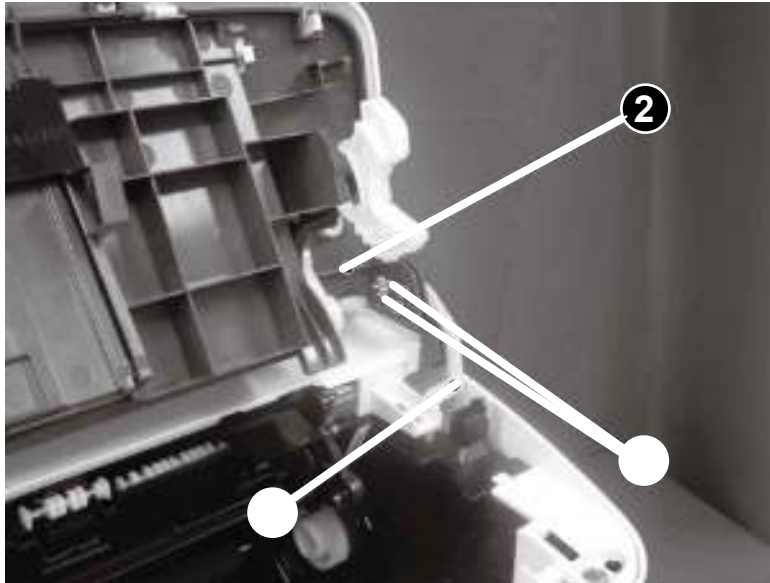
4. Release two tabs (callout 1), and then remove one link arm (callout 3) from the pressure release lever (callout 2).

Figure 1-43 Remove the link arm



5. Release two tabs (callout 1), and then remove one link arm (callout 3) from the cartridge door assembly (callout 2).

Figure 1-44 Remove the link arm



6. Release one tab (callout 1), support the cartridge door (callout 2), and then remove it.

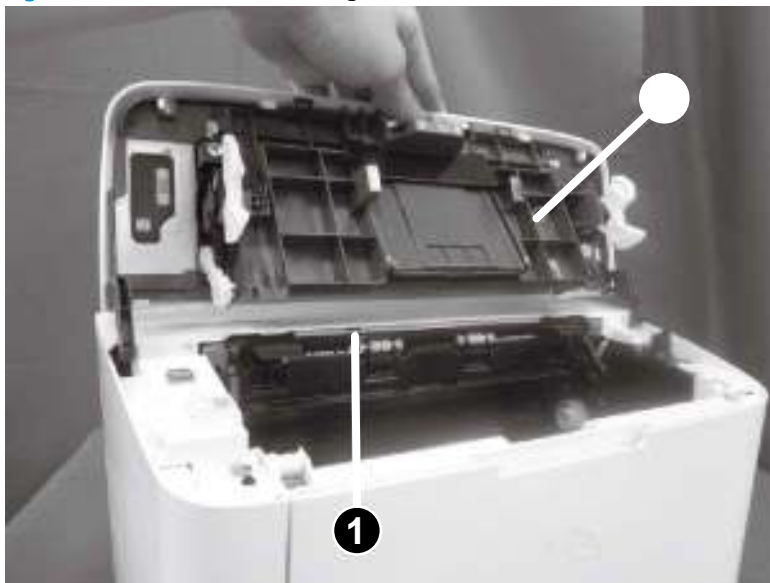


NOTE: If the cartridge door is removed to access other assembly, stop at this step.



Reinstallation tip: Reverse the removal steps to install the door.

Figure 1-45 Remove the cartridge door



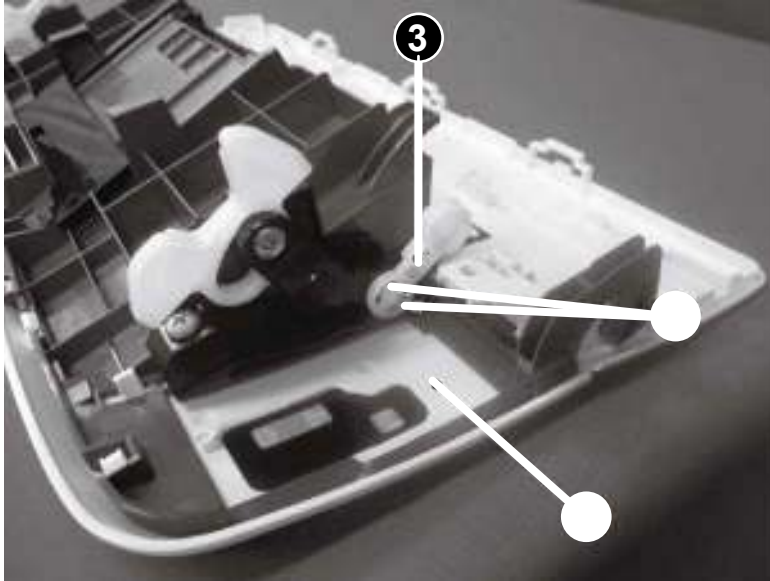
7. **Optional step:** If a replacement cartridge door is being installed, do the following:



NOTE: Install the link arms on the replacement door.

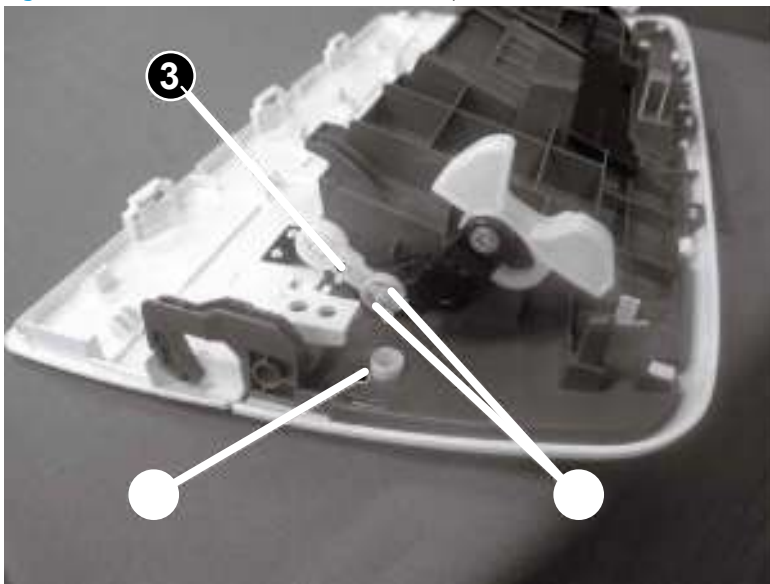
- a. Release two tabs (callout 1), and then remove the one link arm (callout 3) from the door assembly (callout 2).

Figure 1-46 Install the link arms on the replacement door



- b. Release two tabs (callout 1), and then remove the one link arm (callout 3) from the door assembly (callout 2).

Figure 1-47 Install the link arms on the replacement door



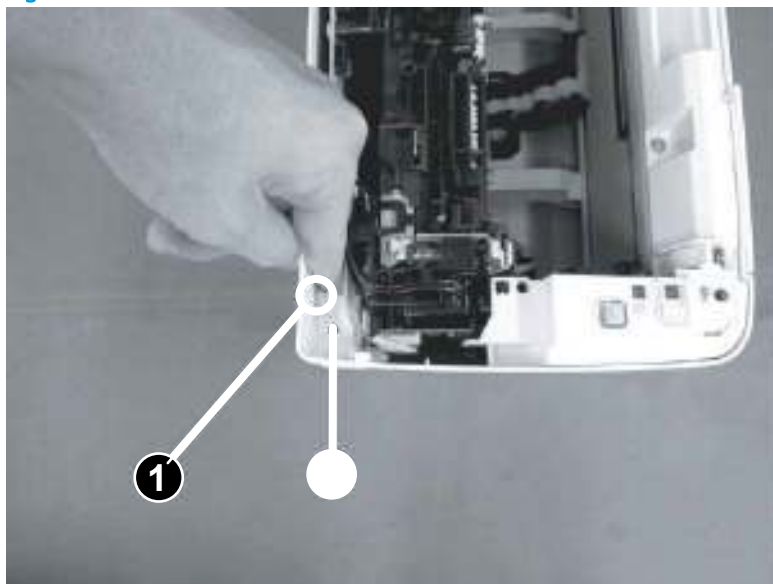
Step 2: Remove the formatter cover (M14-M17)

- ▲ Position the printer front side down.

Release one tab (callout 1), and then remove the formatter cover (callout 2).

💡 **Reinstallation tip:** Reverse the removal steps to install the assembly.

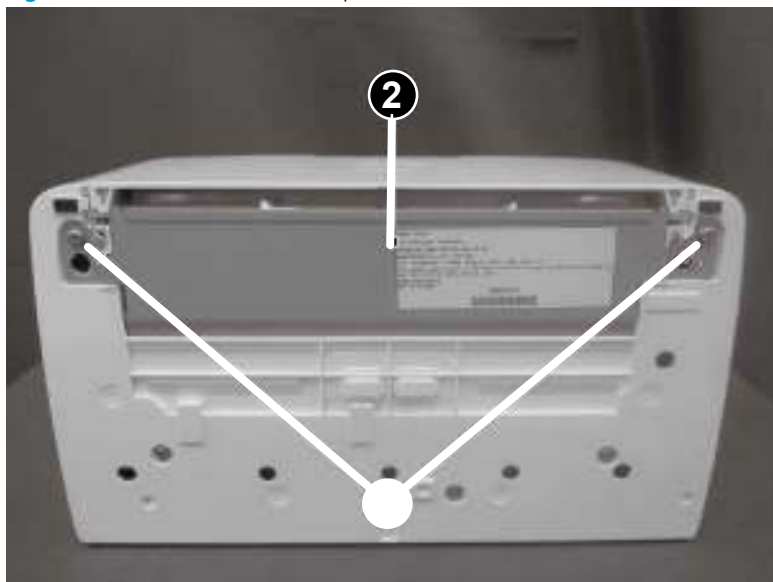
Figure 1-48 Remove the formatter cover (M14-M17)



Step 3: Remove the lower cover (M14-M17)

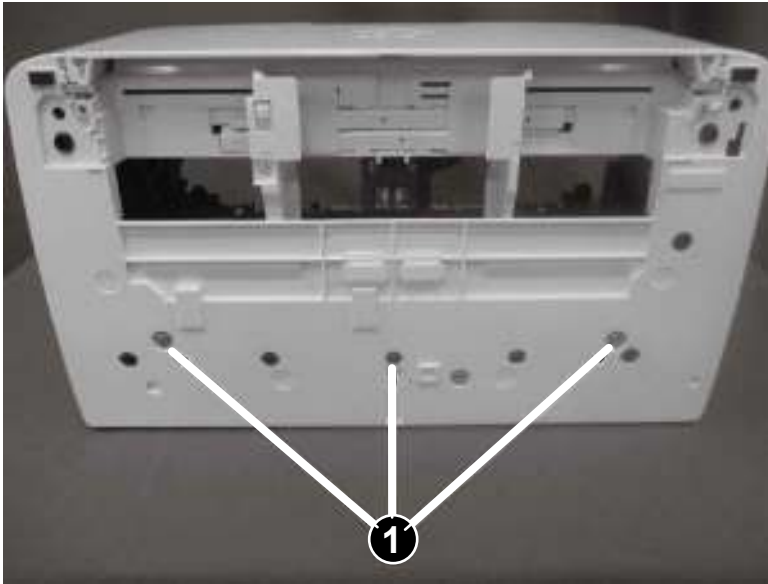
1. Position the printer rear side down, remove three screws (callout 1), and then remove the lower plate (callout 2).

Figure 1-49 Remove the lower plate



2. Remove three screws (callout 1)

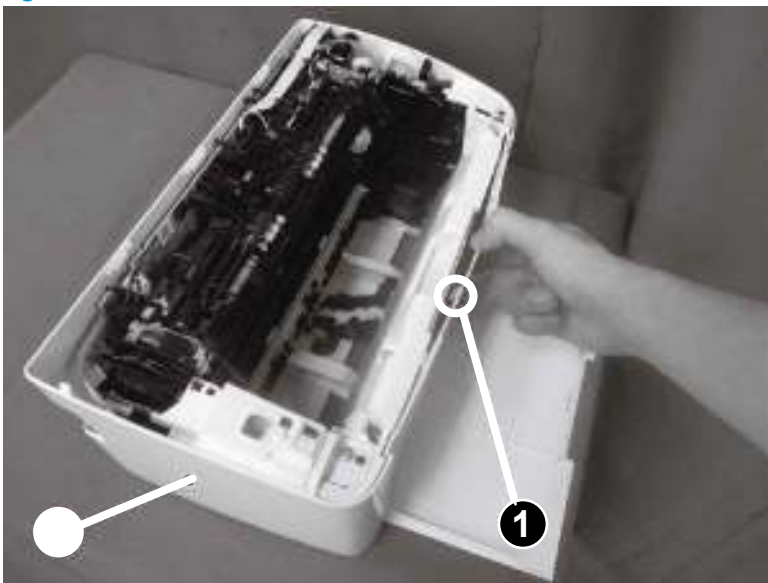
Figure 1-50 Remove the three screws



3. With the printer in the upright position, release one tab (callout 1), and then remove the lower cover (callout 2).

 **Reinstallation tip:** Reverse the removal steps to install the assembly.

Figure 1-51 Remove the lower cover



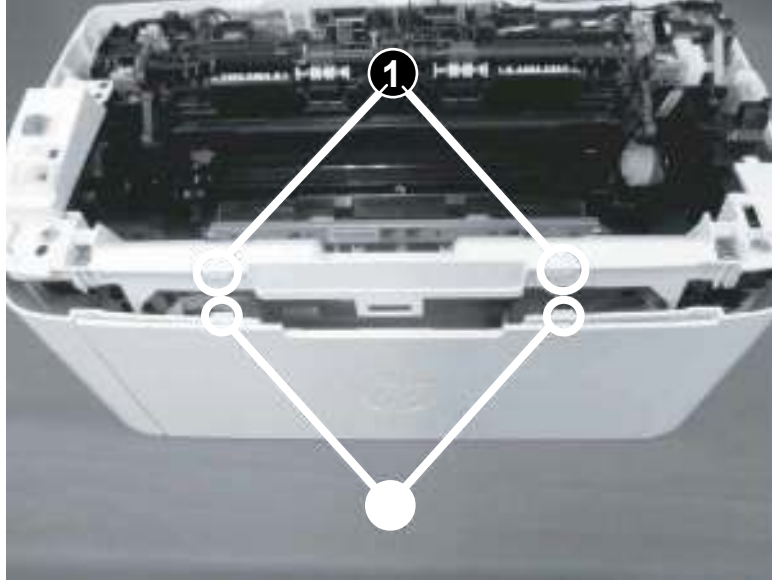
4. Reverse the removal steps to install the assembly. Also use the following special installation instructions.

 **NOTE:** Continue to reverse the removal steps to finish installing the assembly.

Special installation instructions: Lower cover

- ▲ Make sure to fit two ribs (callout 1) on the printer into the grooves (callout 2) in the lower cover.

Figure 1-52 Fit two ribs on the printer into the grooves (lower cover install)



Step 4: Unpack the replacement assembly

1. Dispose of the defective part.



NOTE: HP recommends responsible disposal of the defective part.

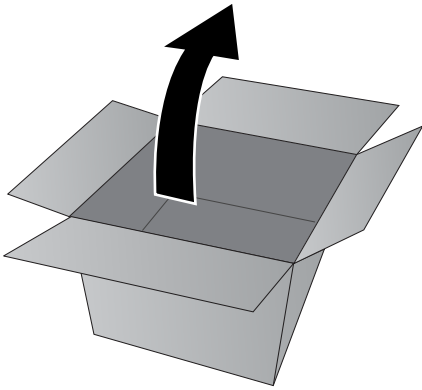
www.hp.com/recycle



2. Unpack the replacement part from the packaging.

⚠ CAUTION: If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands or before touching rollers or pads.

📋 IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.



Remove and replacement: Lower cover (MFP M28-M31)

- [Introduction](#)
- [Step 1: Remove the formatter cover \(MFP M28-M31\)](#)
- [Step 2: Remove the image scanner \(MFP M28-M31\)](#)
- [Step 3: Remove the top cover \(MFP M28-M31\)](#)
- [Step 4: Remove the lower cover \(MFP M28-M31\)](#)
- [Step 5: Unpack the replacement assembly](#)

Introduction

This document provides the procedures to remove and replace the lower cover (MFP M28-M31).



IMPORTANT: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Before performing service

- Turn the printer power off.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts

Lower cover (MFP M28-M31) part number	
RM2-2103-000CN	Lower cover (MFP M28-M31)

Required tools

- #2 Phillips screwdriver with a magnetic tip

After performing service

- Turn the printer power on.

Post service test

No post service test is available for this assembly.

Step 1: Remove the formatter cover (MFP M28-M31)

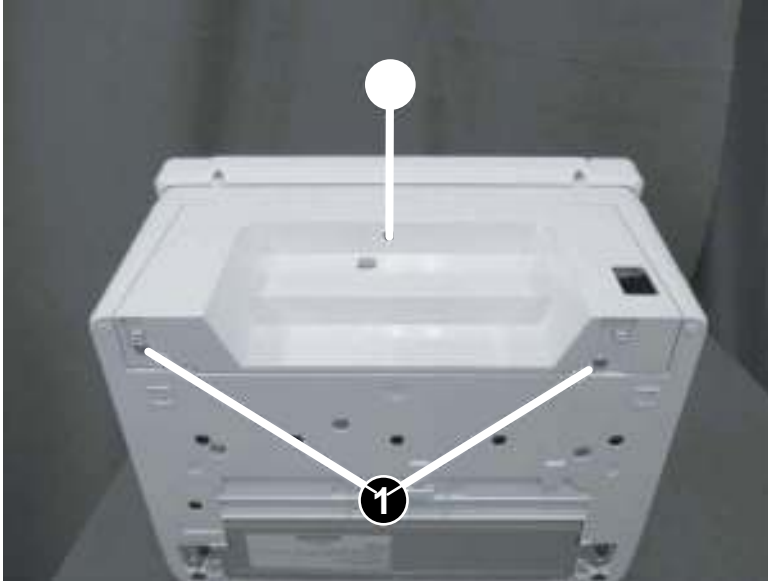
- ▲ Position the printer front side down.

Remove two screws (callout 1), and then remove the formatter cover (callout 2).



Reinstallation tip: Reverse the removal steps to install the assembly.

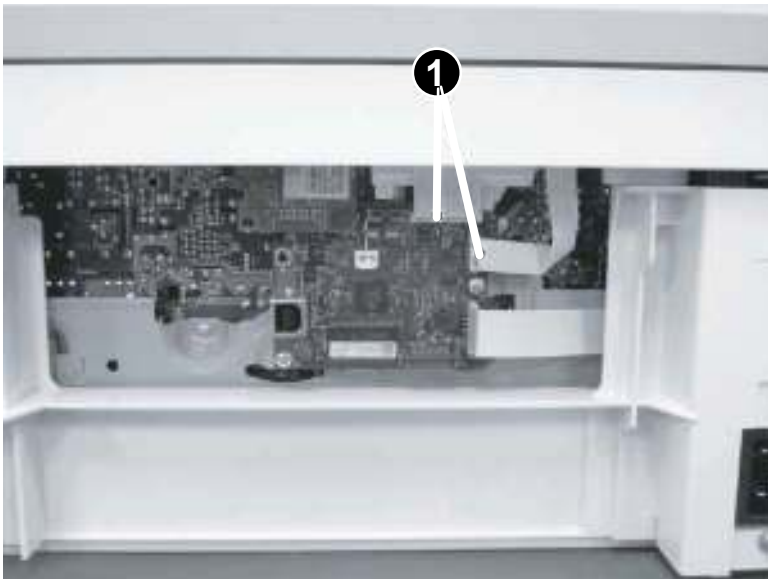
Figure 1-53 Remove the formatter cover (MFP M28-M31)



Step 2: Remove the image scanner (MFP M28-M31)

1. Disconnect two flat flexible cables (FFCs) (callout 1).

Figure 1-54 Disconnect two FFCs

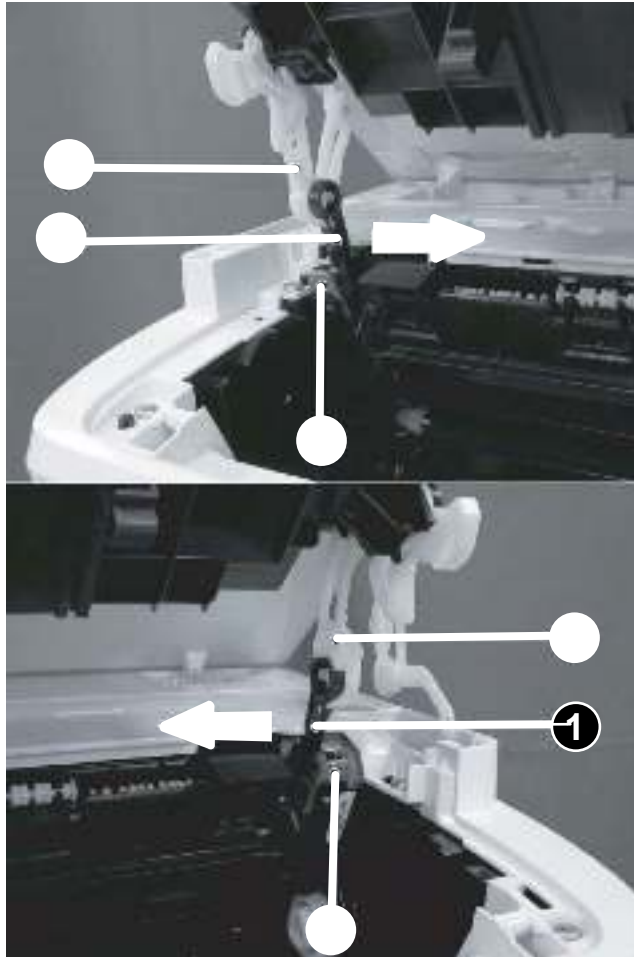


2. Before proceeding, take note of the following disassembly instructions.

When removing the link arm (callout 2) from the pressure release lever (callout 1), the pressure plate (callout 3) might be deformed if the pressure release lever moves in the direction shown below.

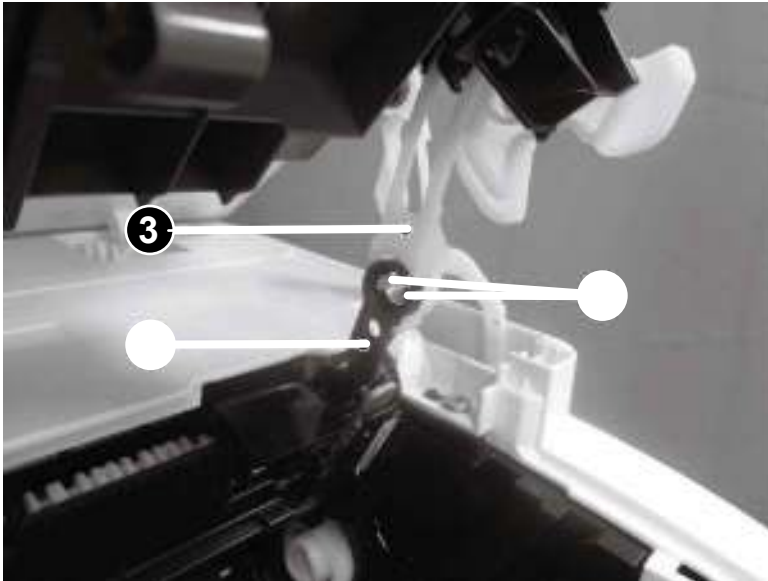
 **CAUTION:** Do not deform the pressure plate.

Figure 1-55 Special disassembly instructions



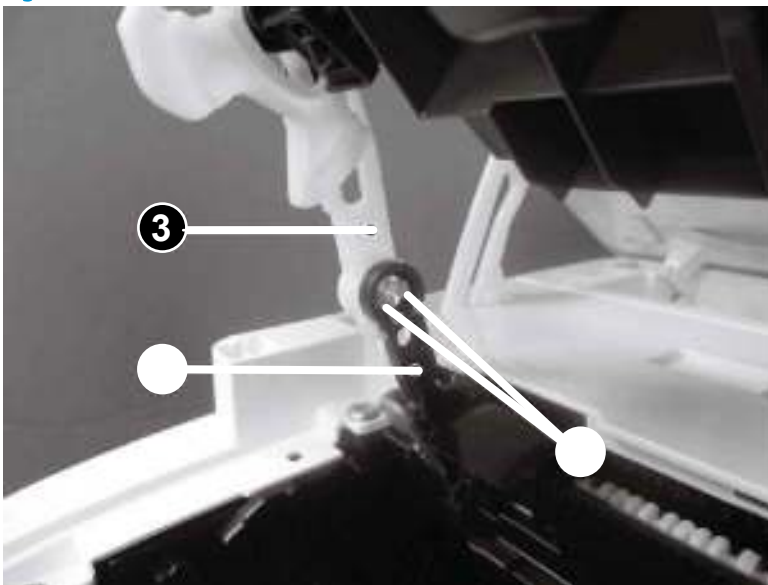
3. Open the image scanner, release two tabs (callout 1), remove one link arm (callout 3) from the pressure release lever (callout 2).

Figure 1-56 Remove the link arm



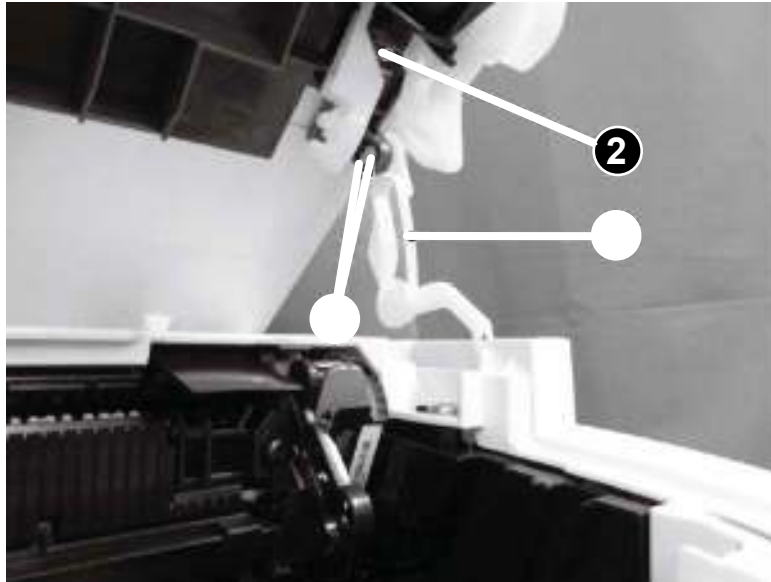
4. Release two tabs (callout 1), and then remove one link arm (callout 3) from the pressure release lever (callout 2).

Figure 1-57 Remove the link arm



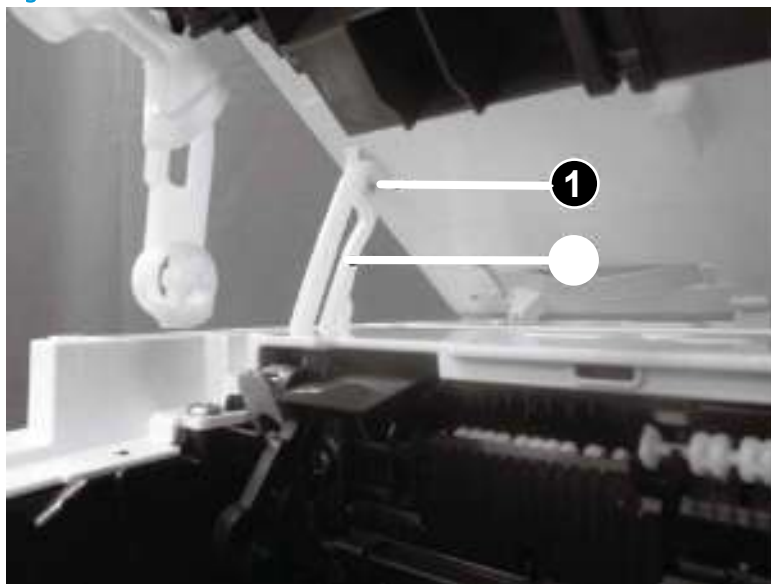
5. Release two tabs (callout 1), and then remove one link arm (callout 3) from the cartridge door (callout 2).

Figure 1-58 Remove the link arm



6. Remove one link arm (callout 2) from the shaft (callout 1).

Figure 1-59 Remove the link arm



7. Pull two flat-flexible cables (FFCs) (callout 2) out and away from the top cover (callout 1), and then slide the image scanner (callout 3) as shown below to remove it.

CAUTION: Do not damage the FFCs.

Reinstallation tip: Reverse the removal steps to install the assembly.

Figure 1-60 Remove the image scanner

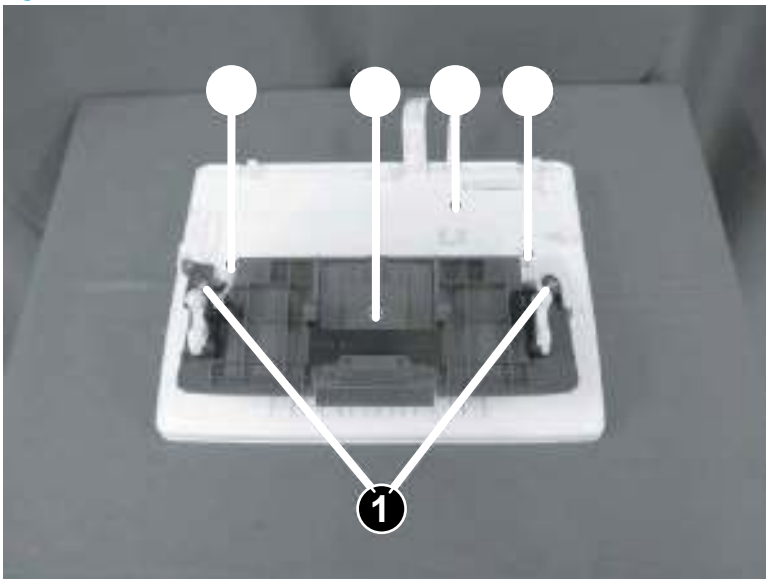


8. For a replacement image scanner, do the following:

NOTE: If the image scanner is removed to access other assemblies, skip this step.

- Remove two screws (callout 1).
- Remove the cartridge door (callout 3) (with the link arms; callout 4) from the image scanner (callout 2).

Figure 1-61 Remove the cartridge door



Step 3: Remove the top cover (MFP M28-M31)

1. Remove two screws (M3; callout 1), remove seven screws (M4; callout 2), release one tab (callout 3), and then remove the top cover (callout 4).


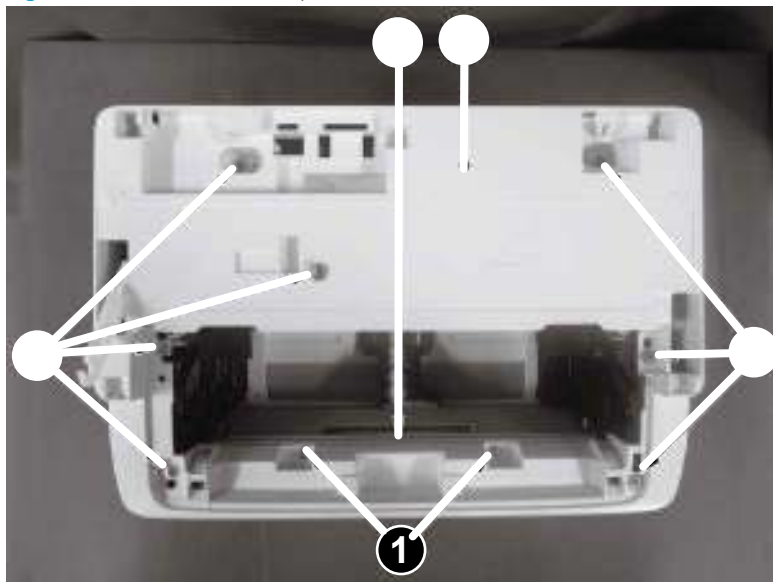

 **Reinstallation tip:** Reverse the removal steps to install the assembly.

Figure 1-62 Remove the top cover



2. Reverse the removal steps to install the assembly. Also use the following special installation instructions.

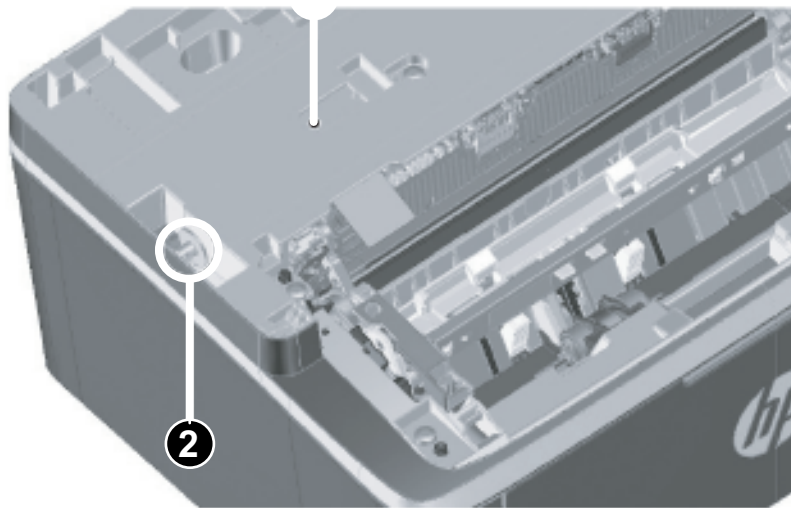
 **NOTE:** Continue to reverse the removal steps to finish installing the assembly.

 **TIP:** If the top cover is removed to access other assemblies, skip this step.

Special installation instructions: Top cover

- ▲ Remove the pad (callout 2) from the top cover (callout 1), and then install it on the replacement top cover.

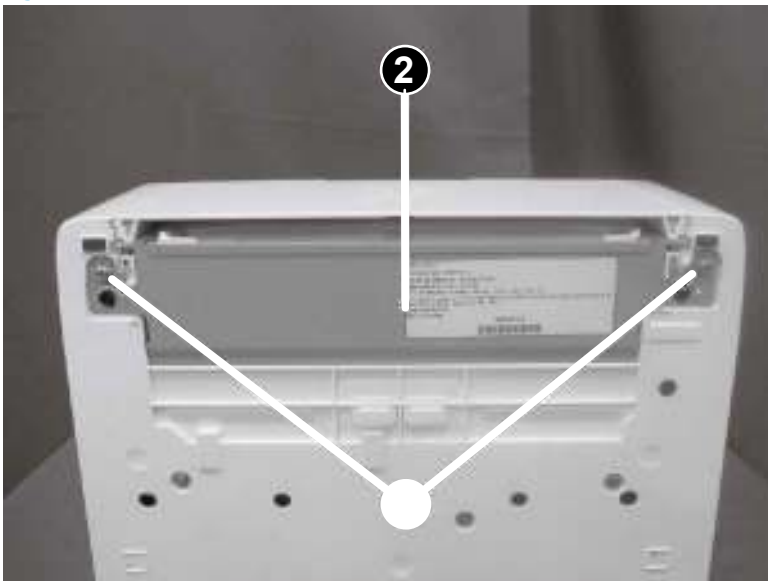
Figure 1-63 Install the pad



Step 4: Remove the lower cover (MFP M28-M31)

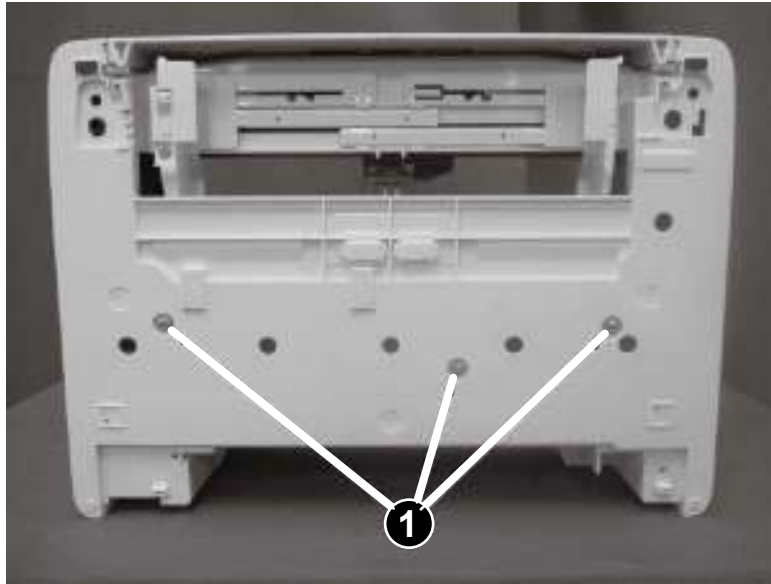
1. Position the printer rear side down, remove two screws (callout 1), and then remove the lower plate (callout 2)

Figure 1-64 Remove the lower plate



2. Remove three screws (callout 1).

Figure 1-65 Remove three screws



3. Remove two screws (callout 1), and then remove the lower cover (callout 2).


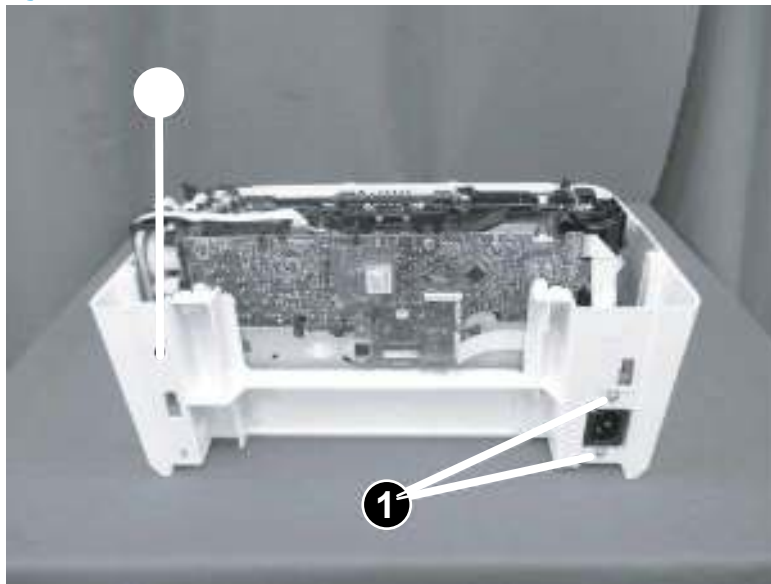
 **Reinstallation tip:** Reverse the removal steps to install the assembly.

Figure 1-66 Remove the lower cover



Step 5: Unpack the replacement assembly

1. Dispose of the defective part.

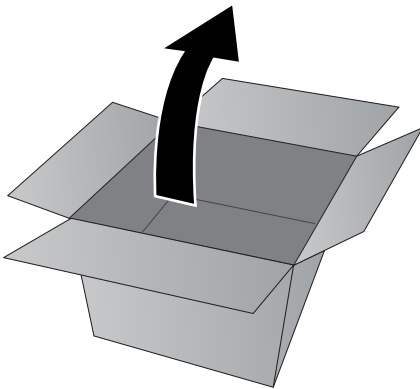
 **NOTE:** HP recommends responsible disposal of the defective part.

www.hp.com/recycle

2. Unpack the replacement part from the packaging.

⚠ CAUTION: If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands or before touching rollers or pads.

📋 IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.



Remove and replacement: Top cover (MFP M28-M31)

- [Introduction](#)
- [Step 1: Remove the formatter cover \(MFP M28-M31\)](#)
- [Step 2: Remove the image scanner \(MFP M28-M31\)](#)
- [Step 3: Remove the top cover \(MFP M28-M31\)](#)
- [Step 4: Unpack the replacement assembly](#)

Introduction

This document provides the procedures to remove and replace the top cover (MFP M28-M31).



IMPORTANT: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Before performing service

- Turn the printer power off.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts

Top cover (MFP M28-M31) part number	
RM2-2122-000CN	Top cover (MFP M28-M31)

Required tools

- #2 Phillips screwdriver with a magnetic tip
- Small flat-blade screw driver (optional)

After performing service

- Turn the printer power on.

Post service test

No post service test is available for this assembly.

Step 1: Remove the formatter cover (MFP M28-M31)

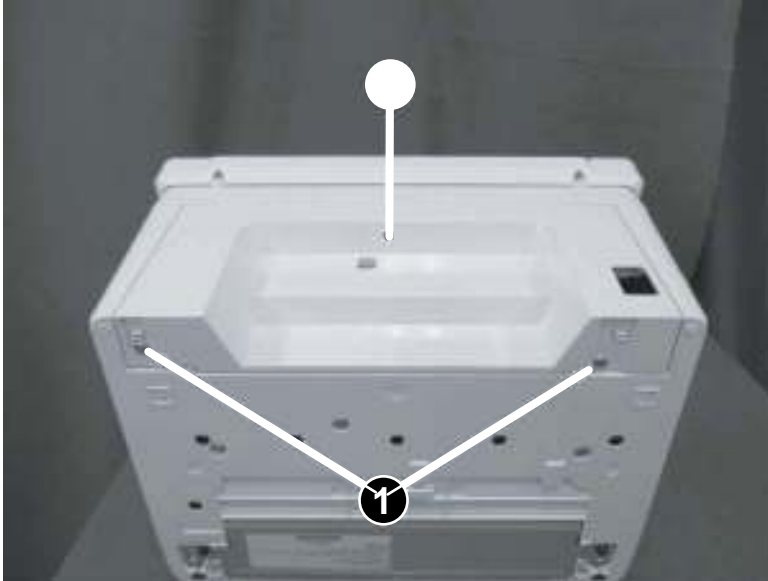
- ▲ Position the printer front side down.

Remove two screws (callout 1), and then remove the formatter cover (callout 2).



Reinstallation tip: Reverse the removal steps to install the assembly.

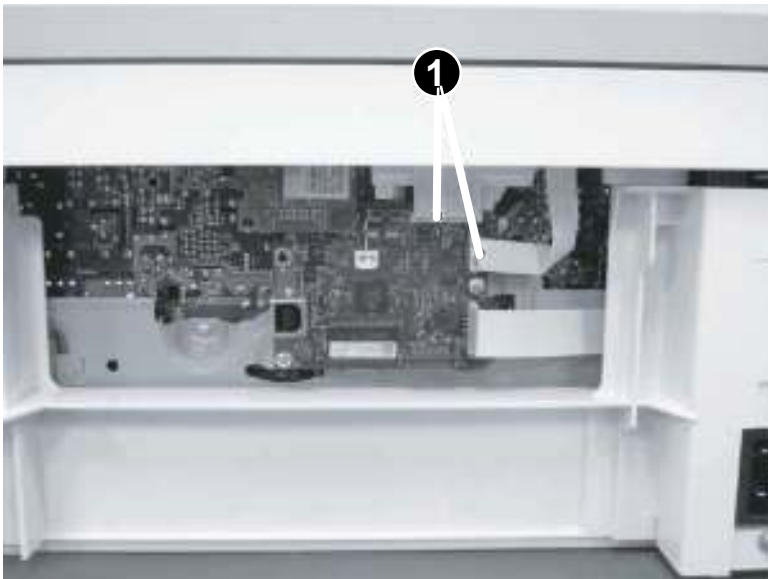
Figure 1-67 Remove the formatter cover (MFP M28-M31)



Step 2: Remove the image scanner (MFP M28-M31)

1. Disconnect two flat flexible cables (FFCs) (callout 1).

Figure 1-68 Disconnect two FFCs

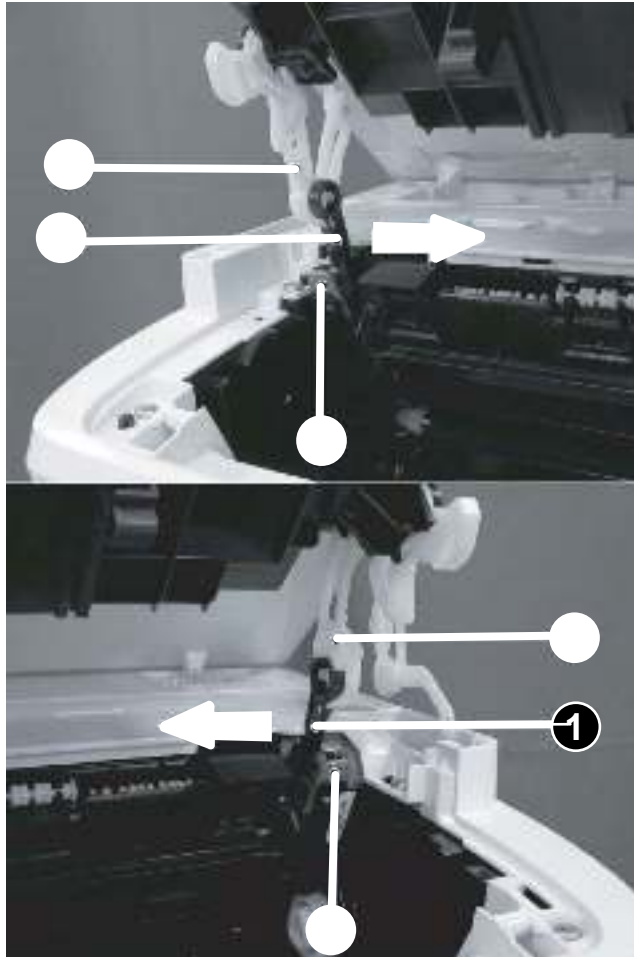


2. Before proceeding, take note of the following disassembly instructions.

When removing the link arm (callout 2) from the pressure release lever (callout 1), the pressure plate (callout 3) might be deformed if the pressure release lever moves in the direction shown below.

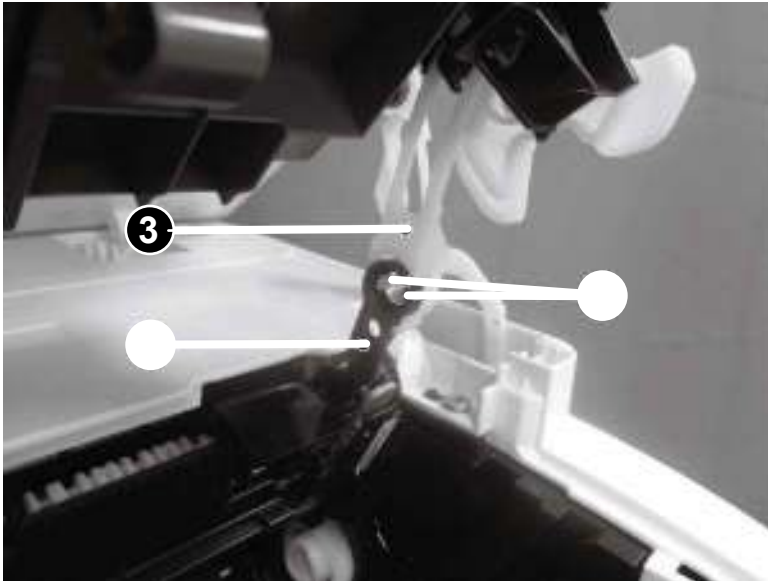
 **CAUTION:** Do not deform the pressure plate.

Figure 1-69 Special disassembly instructions



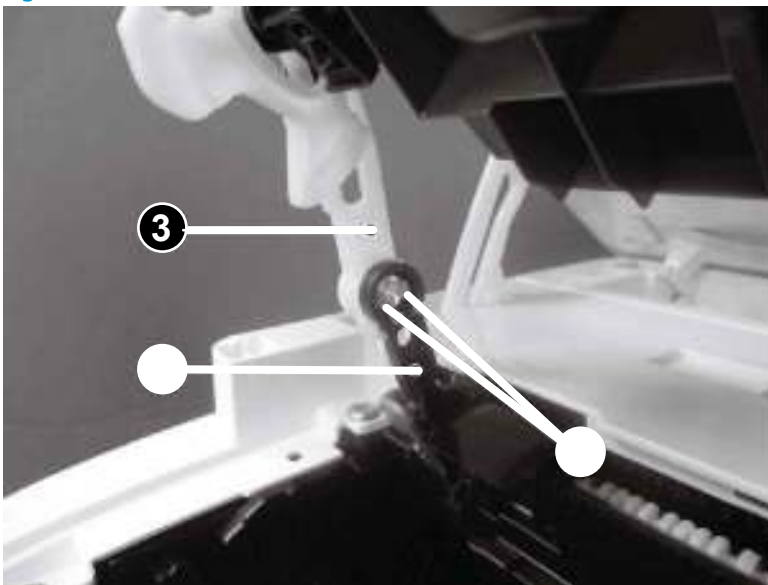
3. Open the image scanner, release two tabs (callout 1), remove one link arm (callout 3) from the pressure release lever (callout 2).

Figure 1-70 Remove the link arm



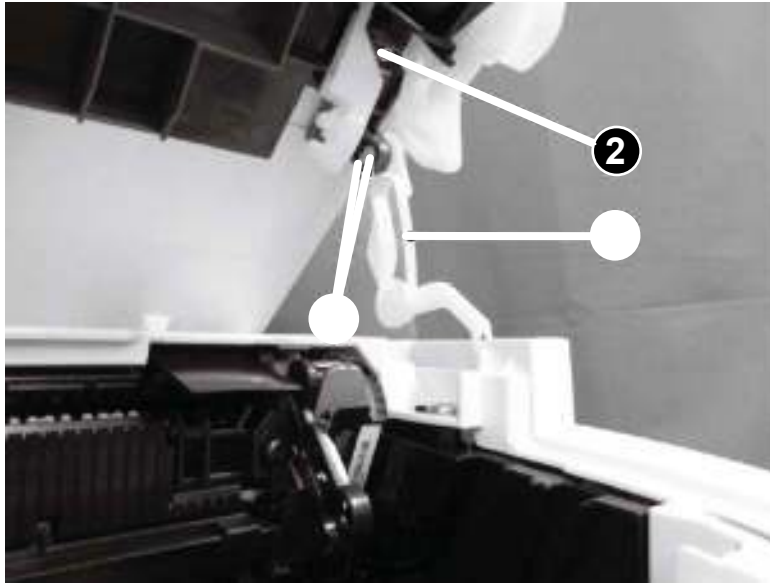
4. Release two tabs (callout 1), and then remove one link arm (callout 3) from the pressure release lever (callout 2).

Figure 1-71 Remove the link arm



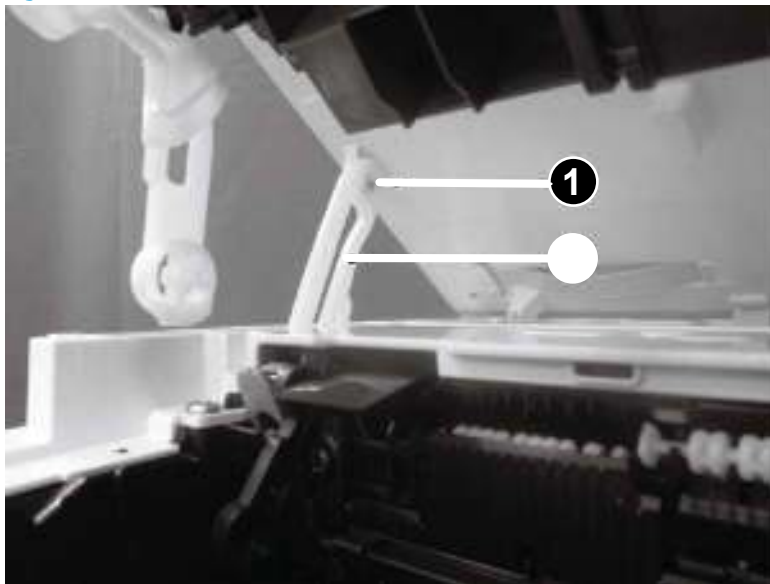
5. Release two tabs (callout 1), and then remove one link arm (callout 3) from the cartridge door (callout 2).

Figure 1-72 Remove the link arm



6. Remove one link arm (callout 2) from the shaft (callout 1).

Figure 1-73 Remove the link arm

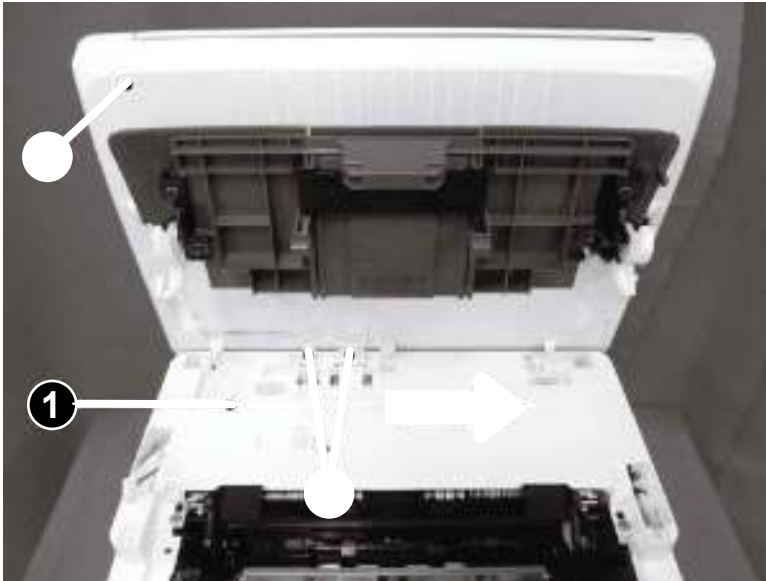


7. Pull two flat-flexible cables (FFCs) (callout 2) out and away from the top cover (callout 1), and then slide the image scanner (callout 3) as shown below to remove it.

CAUTION: Do not damage the FFCs.

Reinstallation tip: Reverse the removal steps to install the assembly.

Figure 1-74 Remove the image scanner

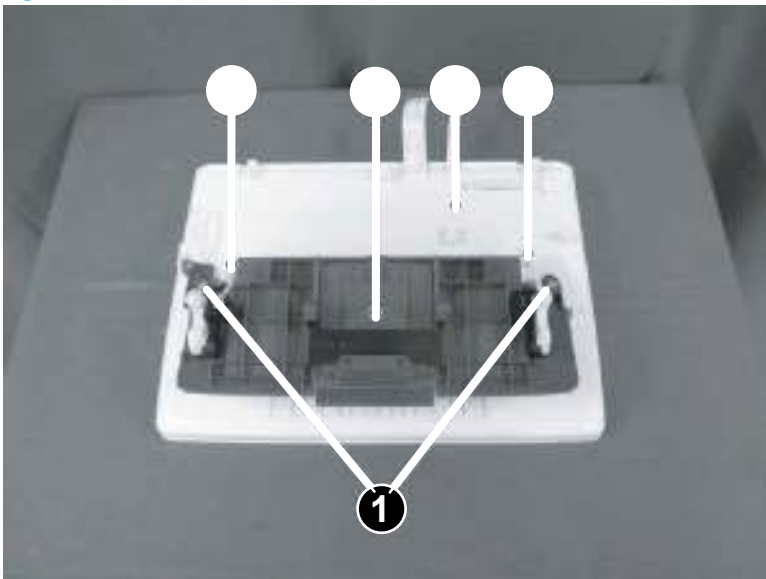


8. For a replacement image scanner, do the following:

NOTE: If the image scanner is removed to access other assemblies, skip this step.

- Remove two screws (callout 1).
- Remove the cartridge door (callout 3) (with the link arms; callout 4) from the image scanner (callout 2).

Figure 1-75 Remove the cartridge door



Step 3: Remove the top cover (MFP M28-M31)

1. Remove two screws (M3; callout 1), remove seven screws (M4; callout 2), release one tab (callout 3), and then remove the top cover (callout 4).


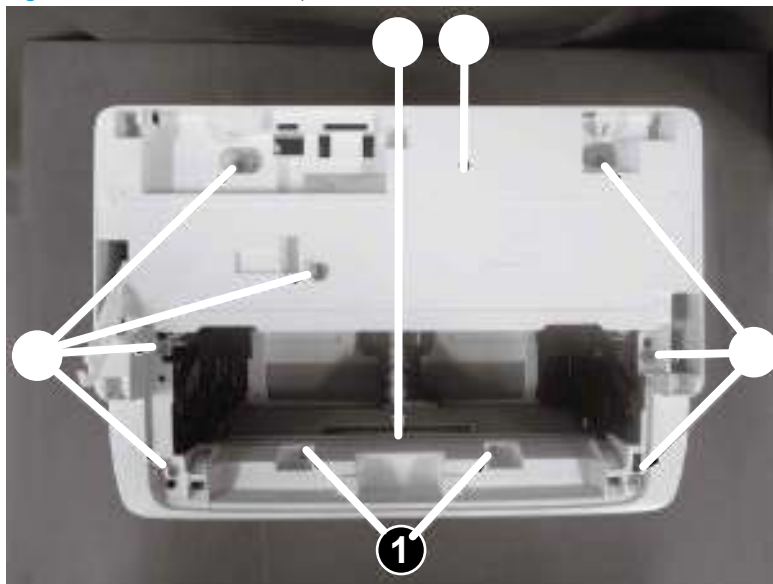

 **Reinstallation tip:** Reverse the removal steps to install the assembly.

Figure 1-76 Remove the top cover



2. Reverse the removal steps to install the assembly. Also use the following special installation instructions.

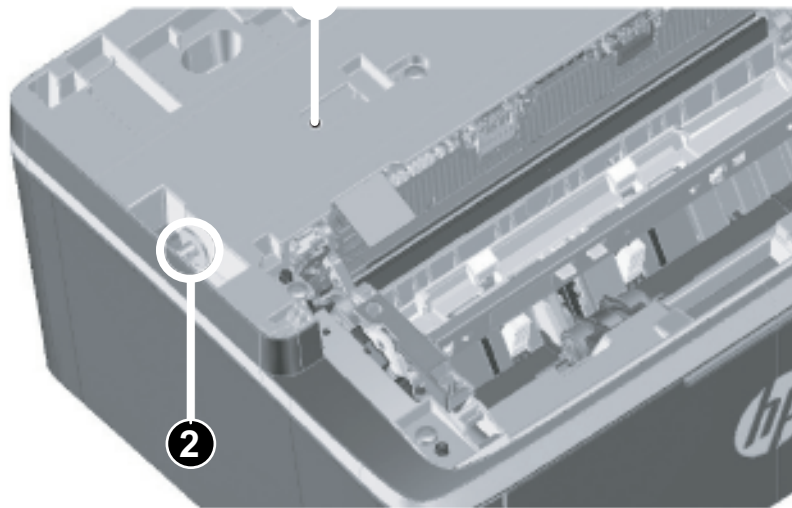
 **NOTE:** Continue to reverse the removal steps to finish installing the assembly.

 **TIP:** If the top cover is removed to access other assemblies, skip this step.

Special installation instructions: Top cover

- ▲ Remove the pad (callout 2) from the top cover (callout 1), and then install it on the replacement top cover.

Figure 1-77 Install the pad



Step 4: Unpack the replacement assembly

1. Dispose of the defective part.

 **NOTE:** HP recommends responsible disposal of the defective part.

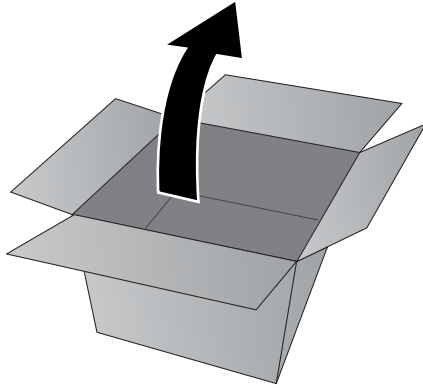
www.hp.com/recycle



2. Unpack the replacement part from the packaging.

⚠ CAUTION: If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands or before touching rollers or pads.

📋 IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.



Remove and replacement: Control panel (M14-M17)

- [Introduction](#)
- [Step 1: Remove the cartridge door \(M14-M17\)](#)
- [Step 2: Remove the formatter cover \(M14-M17\)](#)
- [Step 3: Remove the lower cover \(M14-M17\)](#)
- [Step 4: Remove the control panel \(M14-M17\)](#)
- [Step 5: Unpack the replacement assembly](#)

Introduction

This document provides the procedures to remove and replace the control panel (M14-M17).



IMPORTANT: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Before performing service

- Turn the printer power off.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts

Control panel (M14-M17) part number	
RM2-2125-000CN	Control panel (base model; M14-M17)
RM2-2126-000CN	Control panel (wireless model; M14-M17)

Required tools

- #2 Phillips screwdriver with a magnetic tip
- Small flat-blade screw driver (optional)

After performing service

- Turn the printer power on.

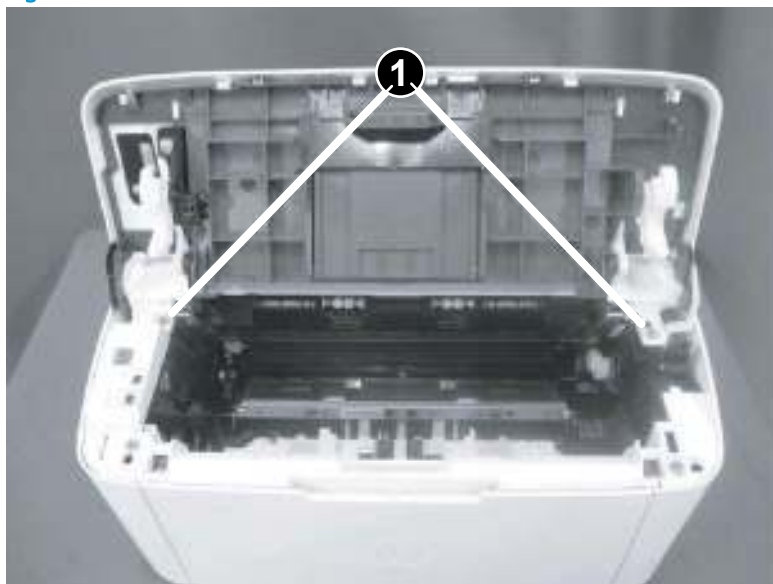
Post service test

No post service test is available for this assembly.

Step 1: Remove the cartridge door (M14-M17)

1. Open the cartridge door, and then remove two screws (callout 1).

Figure 1-78 Remove two screw

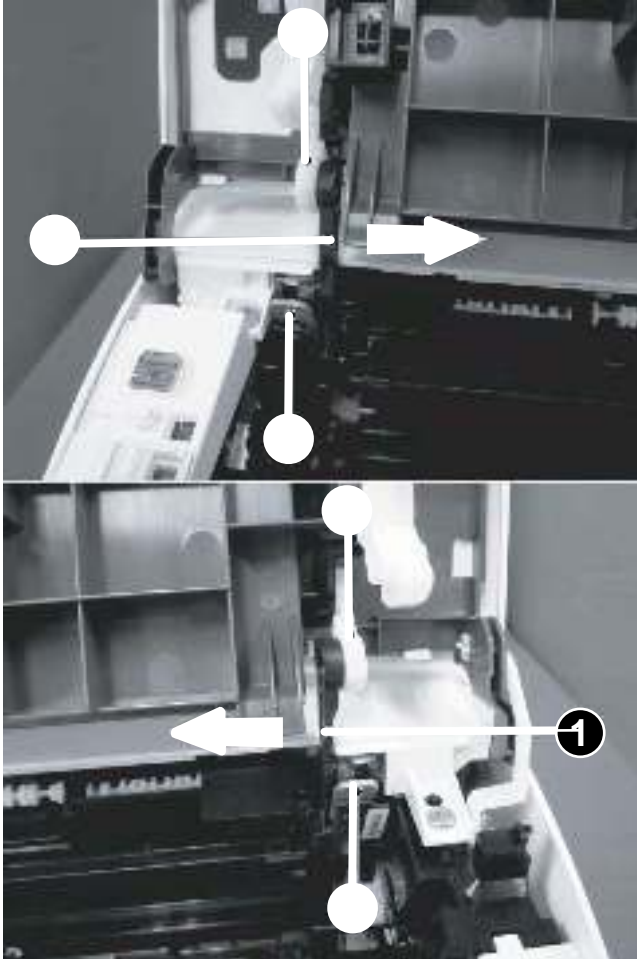


2. Before proceeding, take note of the following disassembly instructions.

When removing the link arm (callout 2) from the pressure release lever (callout 1), the pressure plate (callout 3) might be deformed if the pressure release lever moves in the direction shown below.

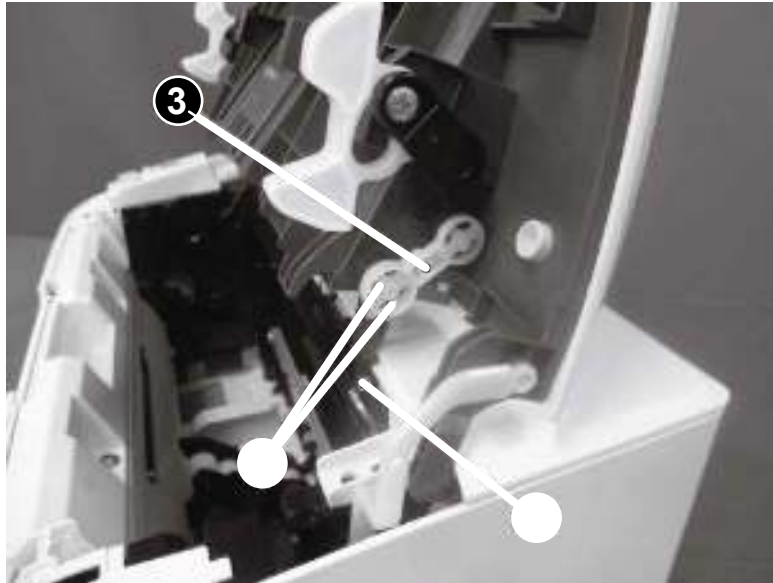
 **CAUTION:** Do not deform the pressure plate.

Figure 1-79 Special disassembly instructions



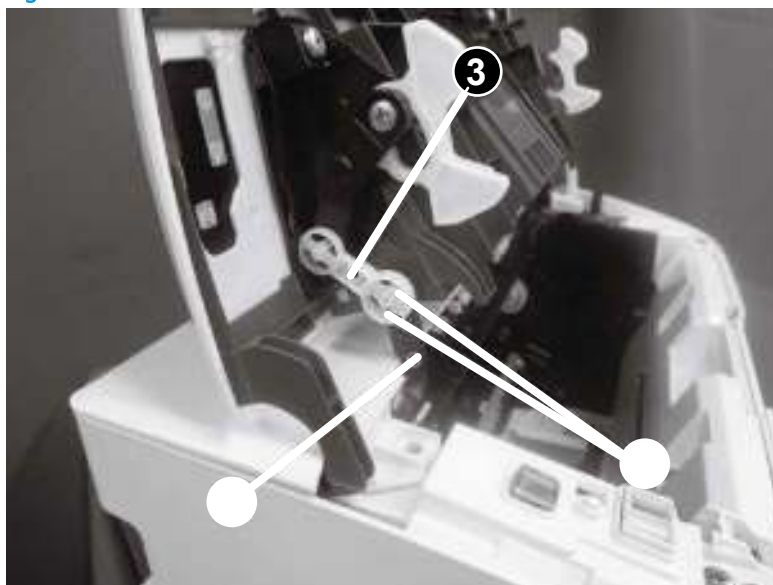
3. Release two tabs (callout 1), and then remove one link arm (callout 3) from the pressure release lever (callout 2).

Figure 1-80 Remove the link arm



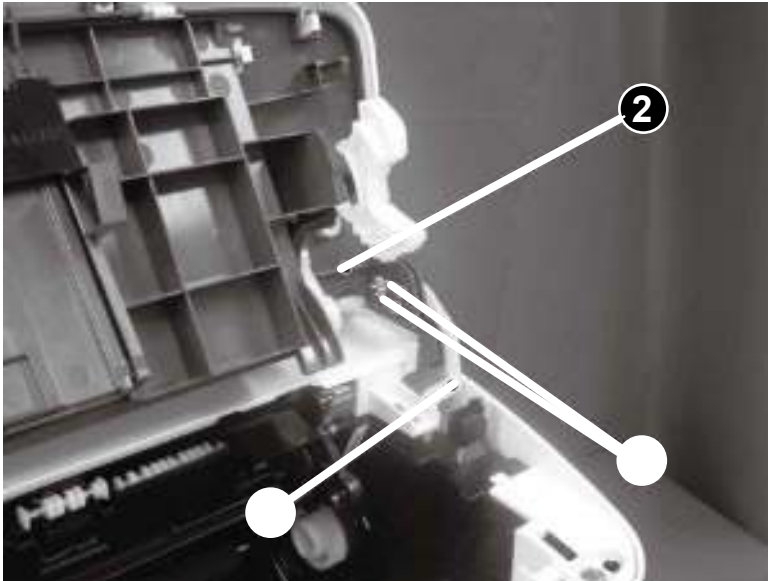
4. Release two tabs (callout 1), and then remove one link arm (callout 3) from the pressure release lever (callout 2).

Figure 1-81 Remove the link arm




5. Release two tabs (callout 1), and then remove one link arm (callout 3) from the cartridge door assembly (callout 2).

Figure 1-82 Remove the link arm

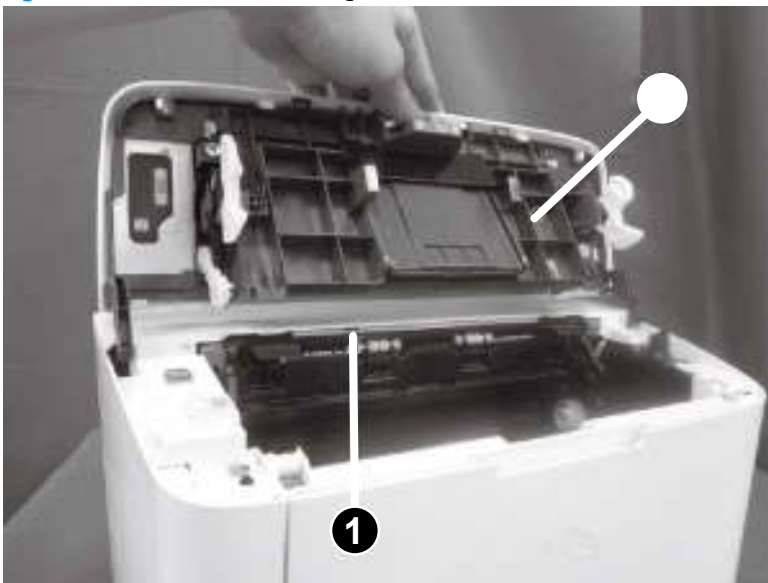


6. Release one tab (callout 1), support the cartridge door (callout 2), and then remove it.

 **NOTE:** If the cartridge door is removed to access other assembly, stop at this step.

 **Reinstallation tip:** Reverse the removal steps to install the door.

Figure 1-83 Remove the cartridge door

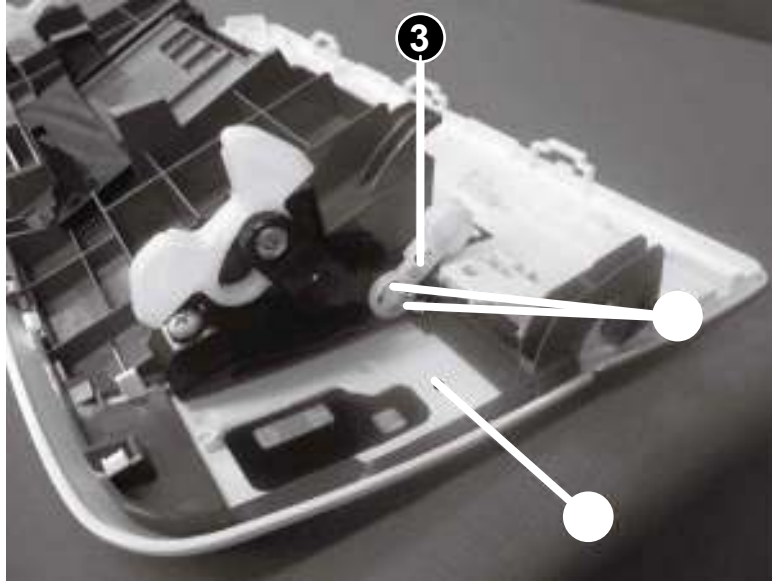


7. **Optional step:** If a replacement cartridge door is being installed, do the following:

 **NOTE:** Install the link arms on the replacement door.

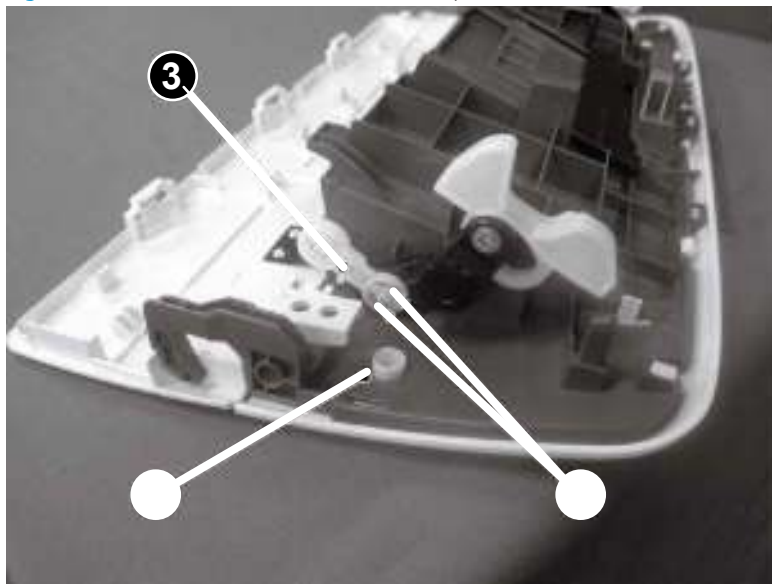
- a. Release two tabs (callout 1), and then remove the one link arm (callout 3) from the door assembly (callout 2).

Figure 1-84 Install the link arms on the replacement door



- b. Release two tabs (callout 1), and then remove the one link arm (callout 3) from the door assembly (callout 2).

Figure 1-85 Install the link arms on the replacement door



Step 2: Remove the formatter cover (M14-M17)

- ▲ Position the printer front side down.

Release one tab (callout 1), and then remove the formatter cover (callout 2).


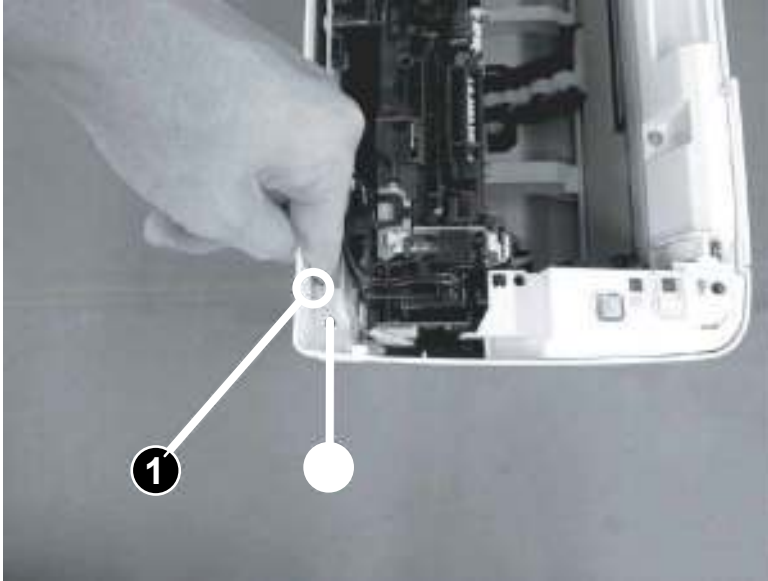
 **Reinstallation tip:** Reverse the removal steps to install the assembly.

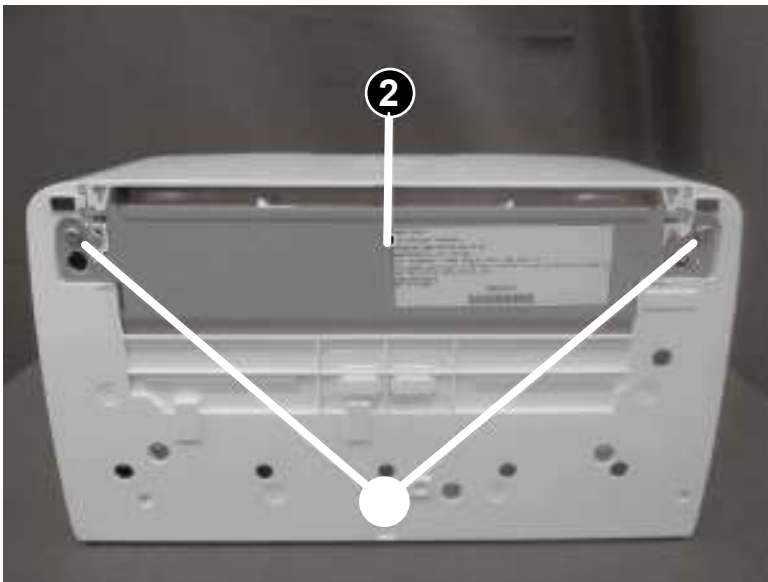
Figure 1-86 Remove the formatter cover (M14-M17)



Step 3: Remove the lower cover (M14-M17)

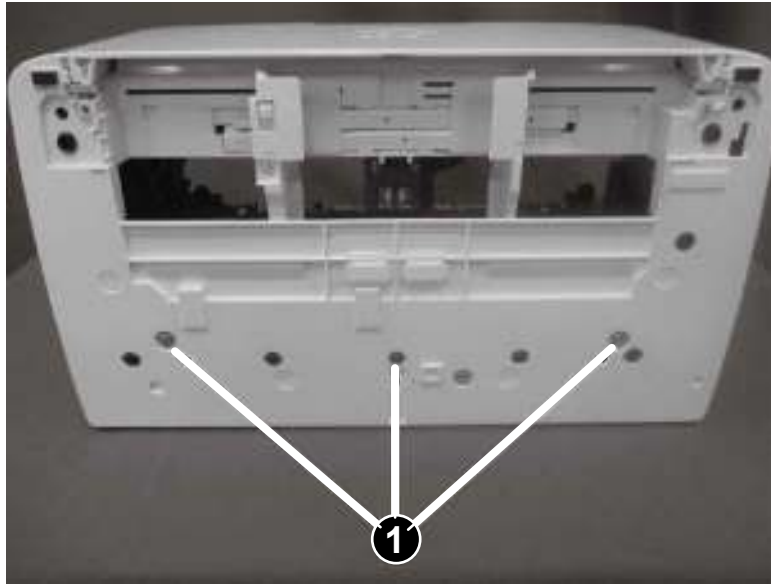
1. Position the printer rear side down, remove three screws (callout 1), and then remove the lower plate (callout 2).

Figure 1-87 Remove the lower plate



2. Remove three screws (callout 1)

Figure 1-88 Remove the three screws



3. With the printer in the upright position, release one tab (callout 1), and then remove the lower cover (callout 2).


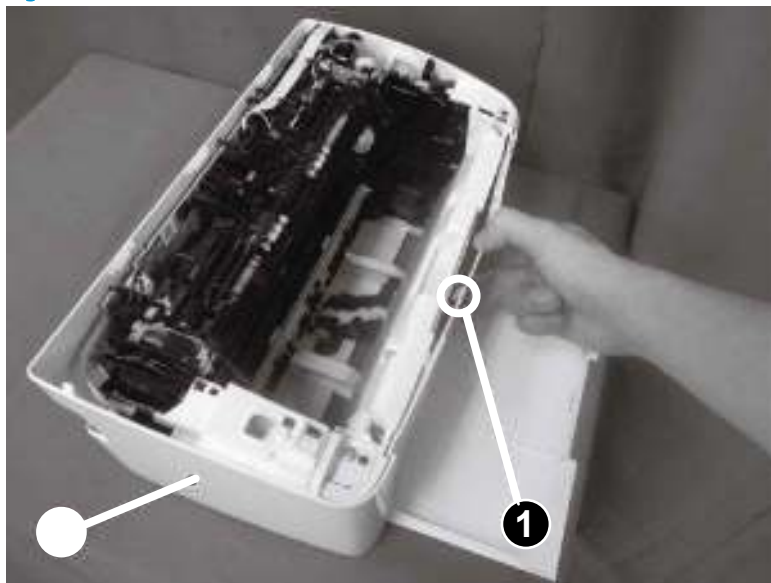
 **Reinstallation tip:** Reverse the removal steps to install the assembly.

Figure 1-89 Remove the lower cover



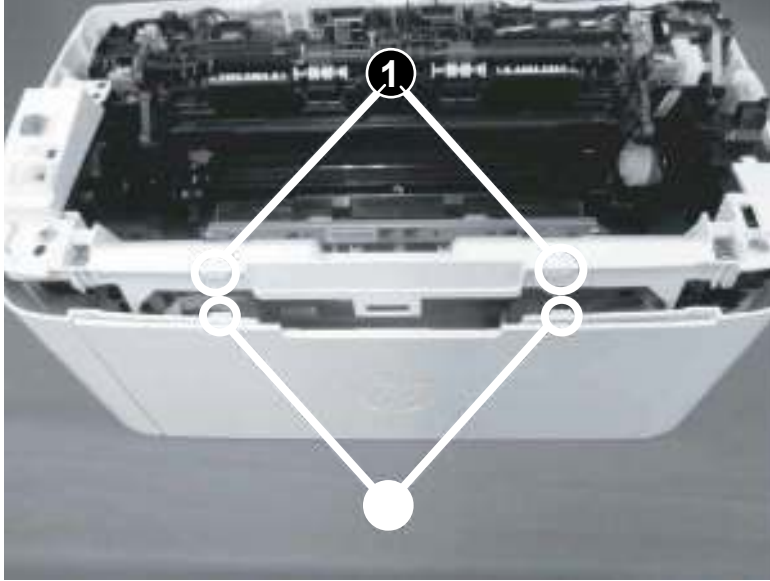
4. Reverse the removal steps to install the assembly. Also use the following special installation instructions.

 **NOTE:** Continue to reverse the removal steps to finish installing the assembly.

Special installation instructions: Lower cover

- ▲ Make sure to fit two ribs (callout 1) on the printer into the grooves (callout 2) in the lower cover.

Figure 1-90 Fit two ribs on the printer into the grooves (lower cover install)



Step 4: Remove the control panel (M14-M17)

- ▲ Disconnect one flat flexible cable (FFC) (callout 1), remove one screw (callout 2), and then remove the control panel (callout 3).
 - Disconnect one flat-flexible cable (FFC) (callout 1).
 - Release the FFC (callout 1) from the guide (callout 2).
 - Remove one screw (callout 3).
 - Remove the control panel (callout 4).


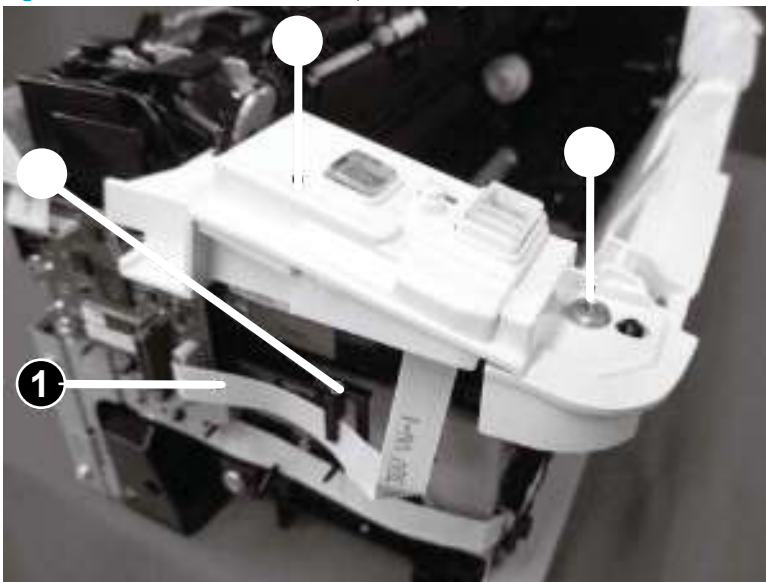
 **Reinstallation tip:** Reverse the removal steps to install the assembly.

Figure 1-91 Remove the control panel



Step 5: Unpack the replacement assembly

1. Dispose of the defective part.



NOTE: HP recommends responsible disposal of the defective part.

www.hp.com/recycle



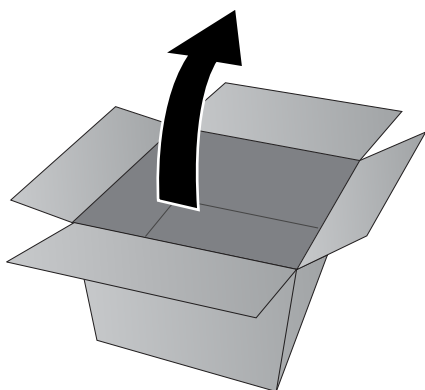
2. Unpack the replacement part from the packaging.



CAUTION: If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands or before touching rollers or pads.



IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.



Removal and replacement: Internal parts and assemblies


- [Remove and replacement: Pickup rollers](#)
- [Remove and replacement: Pickup roller arm \(M14-M17\)](#)
- [Remove and replacement: Pickup roller arm \(M28-M317\)](#)
- [Remove and replacement: Transfer roller](#)
- [Remove and replacement: Hinge link \(M28-M31\)](#)
- [Remove and replacement: Laser scanner and flat flexible cable](#)
- [Remove and replacement: Formatter \(M14-M17\)](#)
- [Remove and replacement: Formatter \(MFP M28-M31\)](#)
- [Remove and replacement: Fuser \(M14-M17\)](#)
- [Remove and replacement: Fuser \(MFP M28-M31\)](#)
- [Remove and replacement: Fuser film assembly \(M14-M17\)](#)
- [Remove and replacement: Fuser film assembly \(MFP M28-M31\)](#)
- [Remove and replacement: Engine controller assembly \(M14-M17\)](#)
- [Remove and replacement: Engine controller assembly \(MFP M28-M31\)](#)
- [Remove and replacement: Door switch and flat flexible cable](#)
- [Remove and replacement: Pickup solenoid](#)
- [Remove and replacement: Wireless PCA \(M14-M17\)](#)
- [Remove and replacement: Wireless PCA \(MFP M28-M31\)](#)

Remove and replacement: Pickup rollers

- [Introduction](#)
- [Step 1: Remove the rollers](#)
- [Step 2: Unpack the replacement assembly](#)
- [Step 3: Install the rollers](#)

Introduction

This document provides the procedures to remove and replace the pickup rollers.

 **IMPORTANT:** When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Before performing service

- Turn the printer power off.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts

Pickup rollers part number	
RM2-2516-000CN	Roller, paper pickup left
RM2-2517-000CN	Roller, paper pickup right

Required tools

- No special tools are needed to remove or install this assembly.

After performing service

- Make sure that the cartridge door is fully closed after replacing the pickup roller.
- Turn the printer power on.

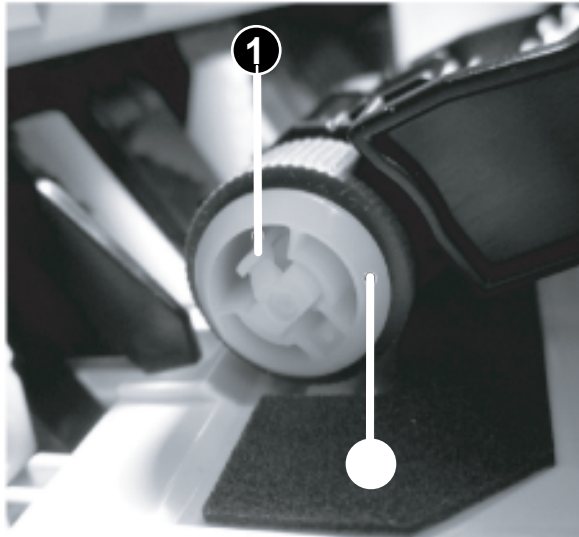
Post service test

Send a job to the printer, and then verify that it correctly picks paper.

Step 1: Remove the rollers

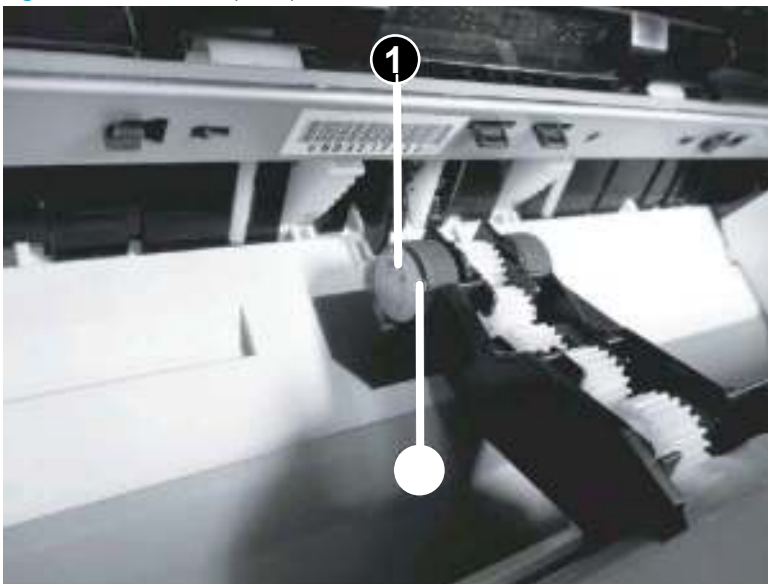
1. Before proceeding, take note of the release tab (callout 1) on pickup roller 1 (callout 2).

Figure 1-92 Pickup roller tab



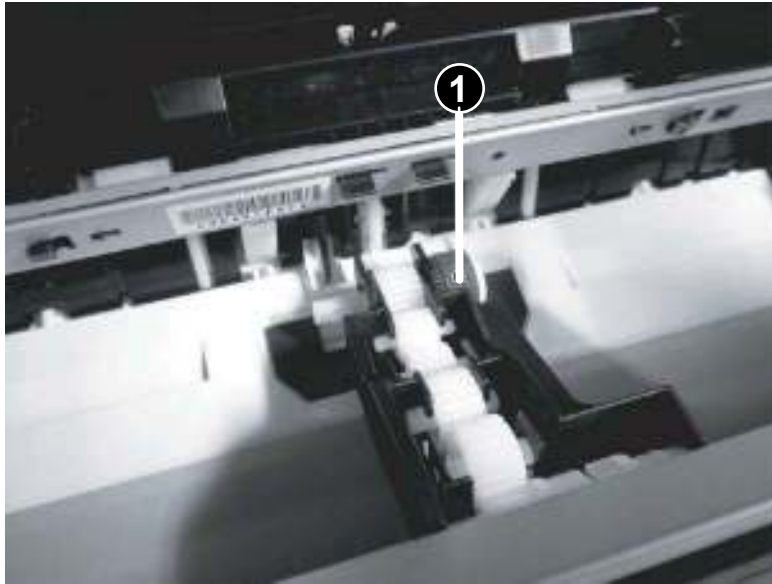
2. Open the toner-cartridge door, release one tab (callout 1), and then slide pickup roller 1 (callout 2) towards the left side to remove it.

Figure 1-93 Remove pickup roller 1



3. Slide pickup roller 2 towards the right side to remove it.

Figure 1-94 Remove pickup roller 2



Step 2: Unpack the replacement assembly

1. Dispose of the defective part.



NOTE: HP recommends responsible disposal of the defective part.

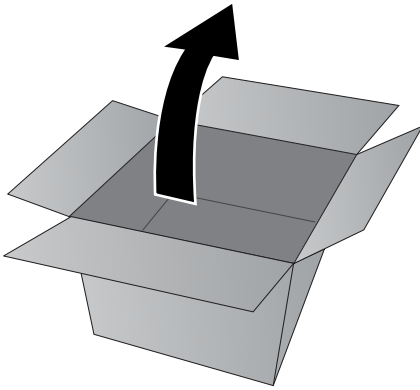
www.hp.com/recycle



2. Unpack the replacement part from the packaging.

⚠ CAUTION: If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands or before touching rollers or pads.

📋 IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.

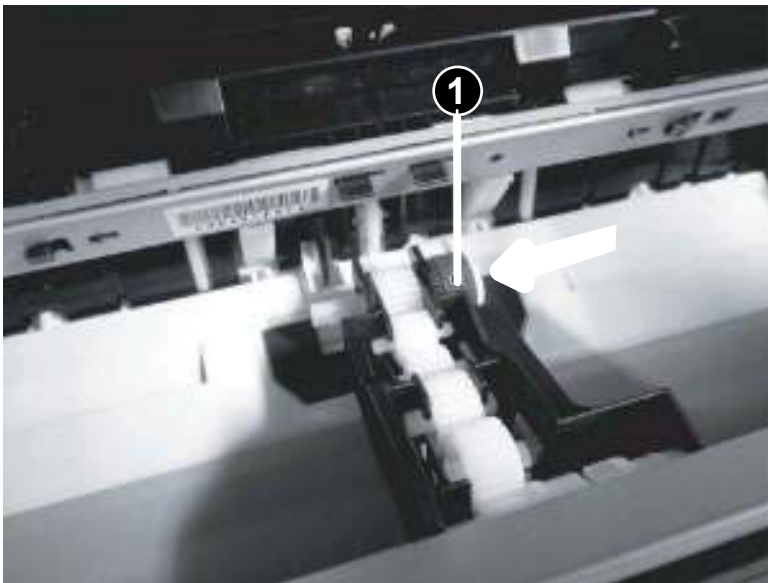


Step 3: Install the rollers

⚠ CAUTION: Do not touch the gray spongy portion of the replacement rollers. Skin oils on the rollers can cause paper handling problems.

1. Install pickup roller 2 (callout 1) on the holder.

Figure 1-95 Install pickup roller 2

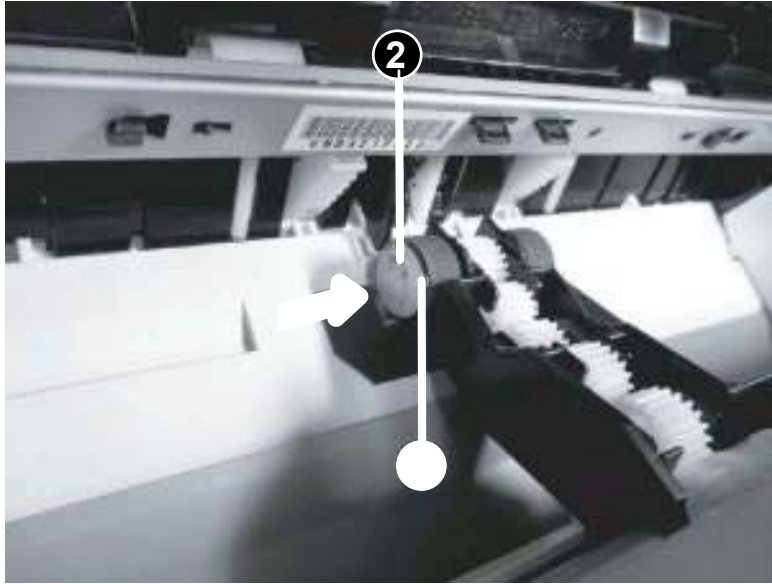


2. Install pickup roller 1 (callout 1) on the holder(callout 2), and then close the toner-cartridge door.



IMPORTANT: Make sure that the tab (callout 2) snaps onto the holder,

Figure 1-96 Install pickup roller 1



Remove and replacement: Pickup roller arm (M14-M17)

- [Introduction](#)
- [Step 1: Remove the cartridge door \(M14-M17\)](#)
- [Step 2: Remove the formatter cover \(M14-M17\)](#)
- [Step 3: Remove the lower cover \(M14-M17\)](#)
- [Step 4: Remove the formatter \(M14-M17\)](#)
- [Step 5: Remove the control panel \(M14-M17\)](#)
- [Step 6: Remove the pickup roller arm \(M14-M17\)](#)
- [Step 7: Unpack the replacement assembly](#)

Introduction

This document provides the procedures to remove and replace the pickup roller arm (M14-M17).



IMPORTANT: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Before performing service

- Turn the printer power off.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts

Pickup roller arm (M14-M17) part number	
RM2-2106-000CN	Pickup roller arm (M14-M17)

Required tools

- #2 Phillips screwdriver with a magnetic tip
- Micro tip Phillips screwdriver with a magnetic tip



TIP: This type of driver is sometimes called a jeweler's screwdriver.

- Small flat-blade screw driver (optional)

After performing service

- Make sure that the cartridge door is fully closed after replacing the pickup roller.
- Turn the printer power on.

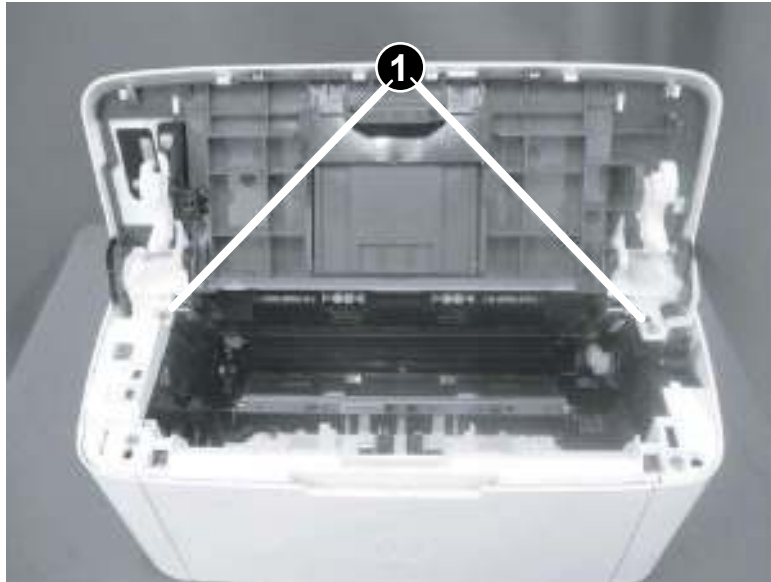
Post service test

Send a job to the printer, and then verify that it correctly picks paper.

Step 1: Remove the cartridge door (M14-M17)

1. Open the cartridge door, and then remove two screws (callout 1).

Figure 1-97 Remove two screw

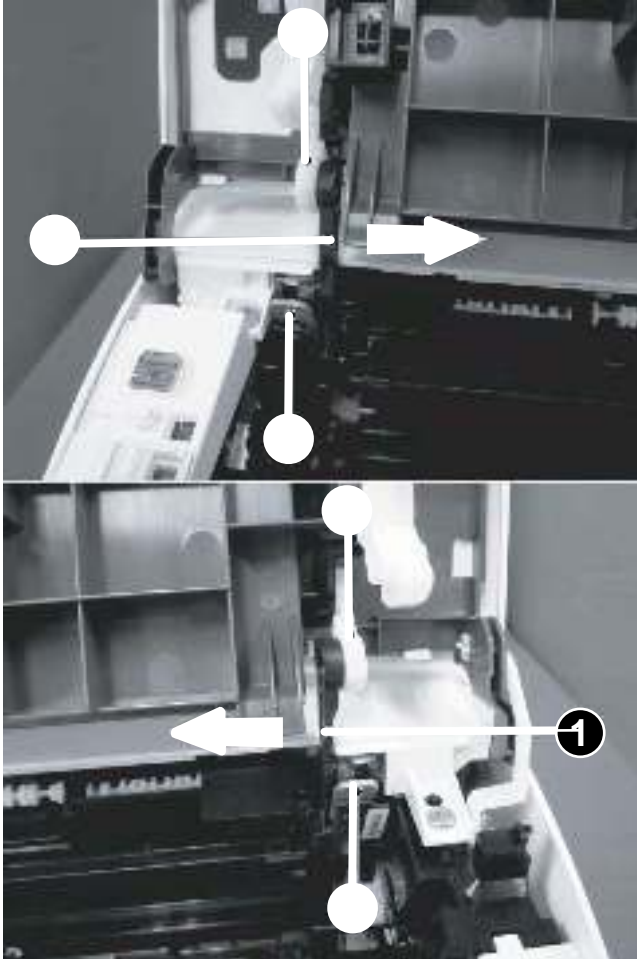


2. Before proceeding, take note of the following disassembly instructions.

When removing the link arm (callout 2) from the pressure release lever (callout 1), the pressure plate (callout 3) might be deformed if the pressure release lever moves in the direction shown below.

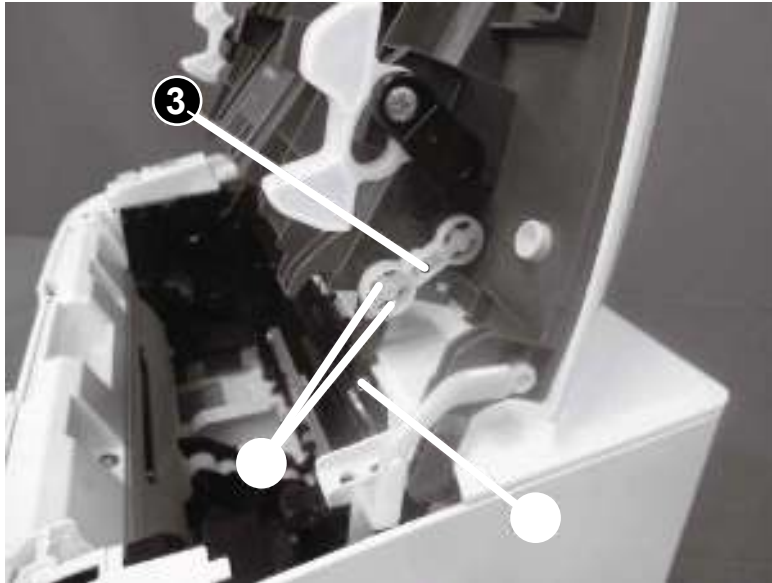
 **CAUTION:** Do not deform the pressure plate.

Figure 1-98 Special disassembly instructions



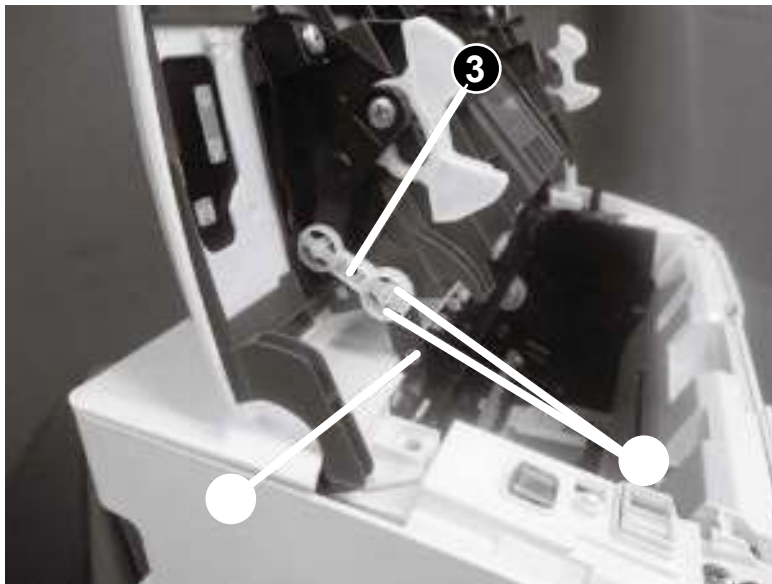
3. Release two tabs (callout 1), and then remove one link arm (callout 3) from the pressure release lever (callout 2).

Figure 1-99 Remove the link arm



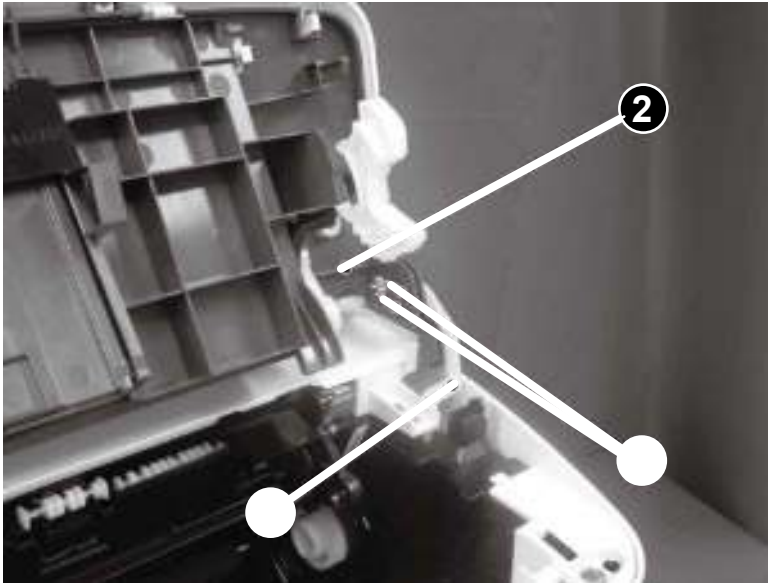
4. Release two tabs (callout 1), and then remove one link arm (callout 3) from the pressure release lever (callout 2).

Figure 1-100 Remove the link arm



5. Release two tabs (callout 1), and then remove one link arm (callout 3) from the cartridge door assembly (callout 2).

Figure 1-101 Remove the link arm



6. Release one tab (callout 1), support the cartridge door (callout 2), and then remove it.

 **NOTE:** If the cartridge door is removed to access other assembly, stop at this step.


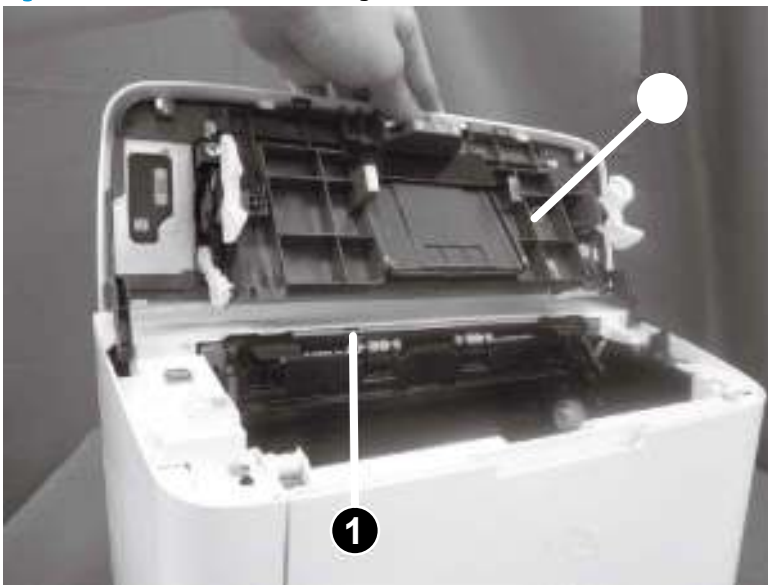

 **Reinstallation tip:** Reverse the removal steps to install the door.

Figure 1-102 Remove the cartridge door

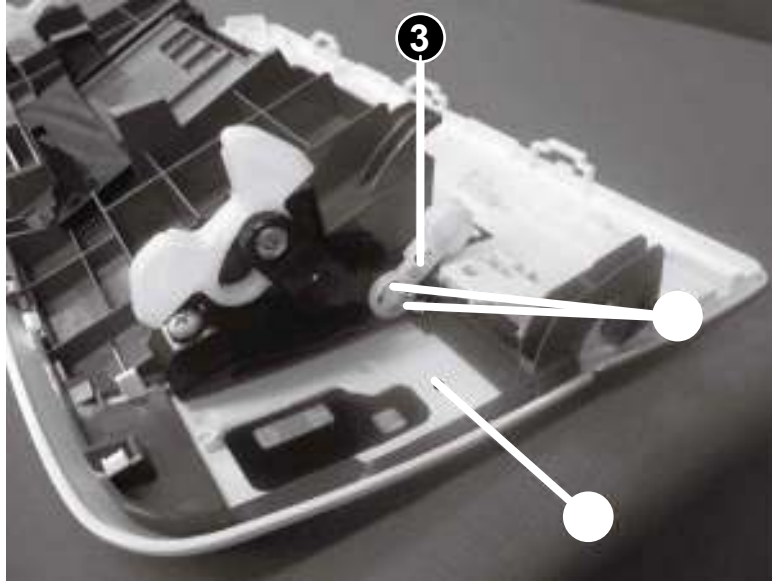


7. **Optional step:** If a replacement cartridge door is being installed, do the following:

 **NOTE:** Install the link arms on the replacement door.

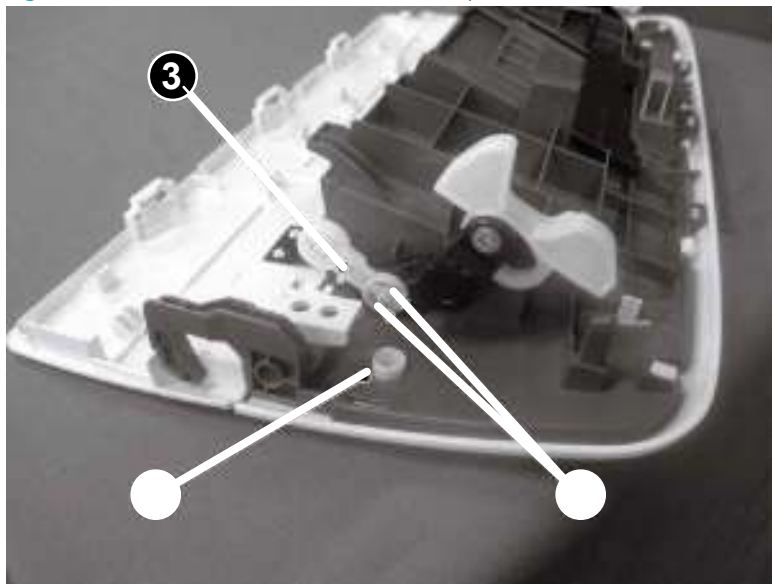
- a. Release two tabs (callout 1), and then remove the one link arm (callout 3) from the door assembly (callout 2).

Figure 1-103 Install the link arms on the replacement door



- b. Release two tabs (callout 1), and then remove the one link arm (callout 3) from the door assembly (callout 2).

Figure 1-104 Install the link arms on the replacement door



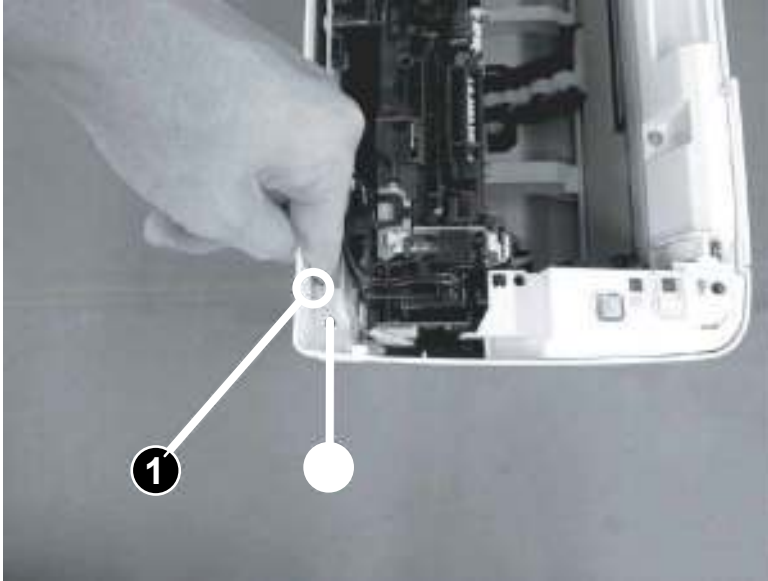
Step 2: Remove the formatter cover (M14-M17)

- ▲ Position the printer front side down.

Release one tab (callout 1), and then remove the formatter cover (callout 2).

💡 **Reinstallation tip:** Reverse the removal steps to install the assembly.

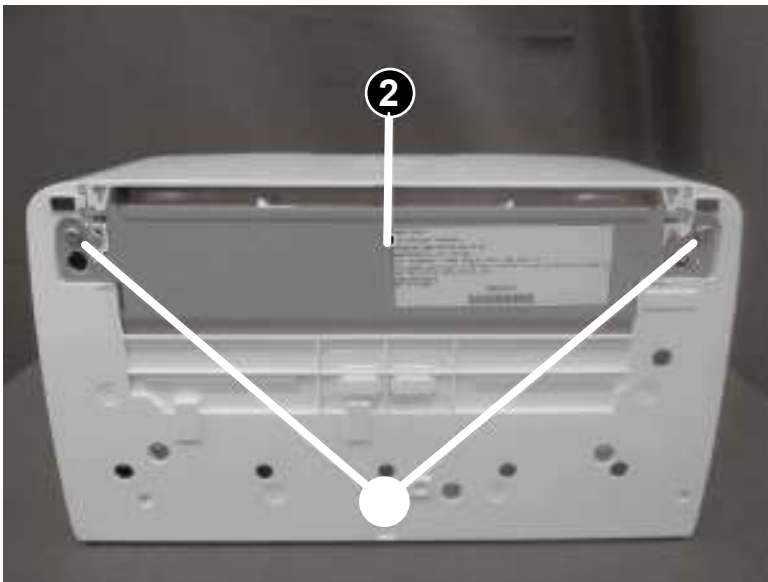
Figure 1-105 Remove the formatter cover (M14-M17)



Step 3: Remove the lower cover (M14-M17)

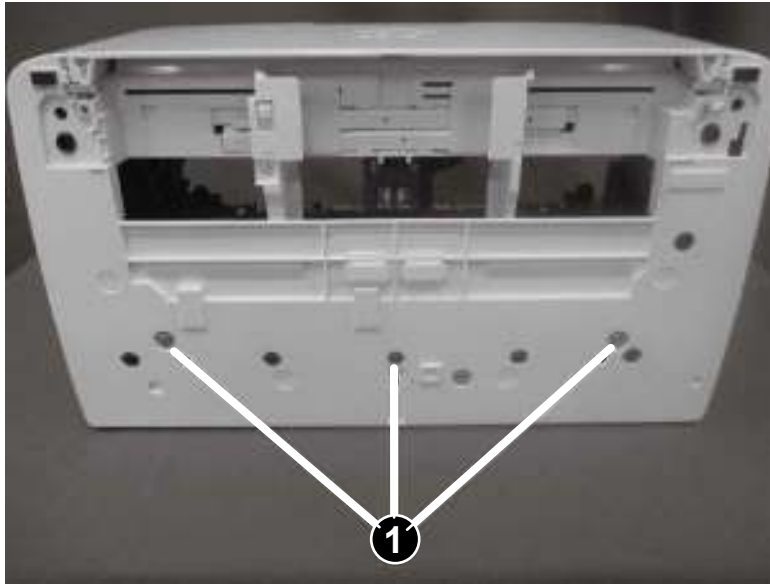
1. Position the printer rear side down, remove three screws (callout 1), and then remove the lower plate (callout 2).

Figure 1-106 Remove the lower plate



2. Remove three screws (callout 1)

Figure 1-107 Remove the three screws



3. With the printer in the upright position, release one tab (callout 1), and then remove the lower cover (callout 2).


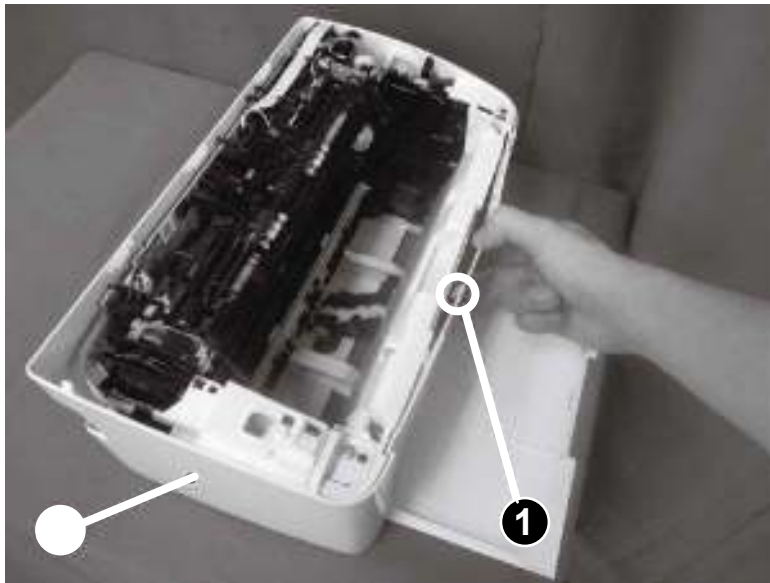
 **Reinstallation tip:** Reverse the removal steps to install the assembly.

Figure 1-108 Remove the lower cover



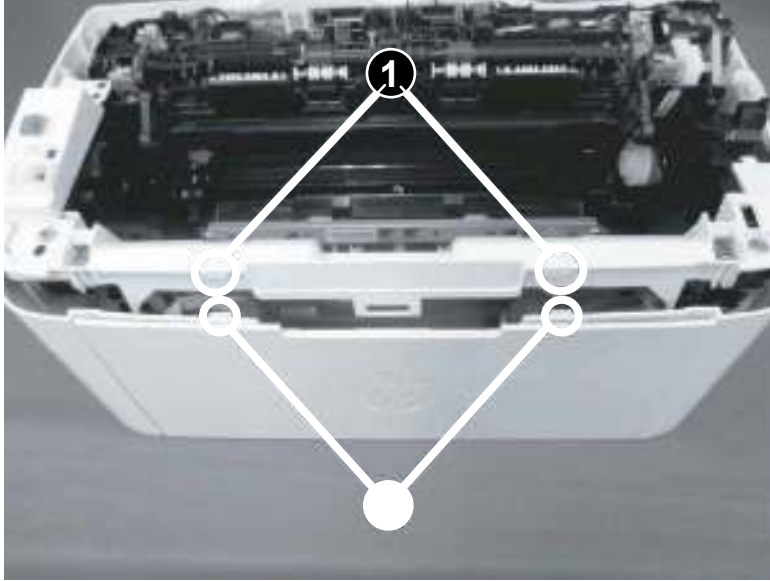
4. Reverse the removal steps to install the assembly. Also use the following special installation instructions.

 **NOTE:** Continue to reverse the removal steps to finish installing the assembly.

Special installation instructions: Lower cover

- ▲ Make sure to fit two ribs (callout 1) on the printer into the grooves (callout 2) in the lower cover.

Figure 1-109 Fit two ribs on the printer into the grooves (lower cover install)



Step 4: Remove the formatter (M14-M17)

▲ Do the following:

- a. Remove two flat flexible cables (FFCs) (callout 1).

💡 **TIP:** It might be easier to use a small flat blade screwdriver to release the large FFC.

- b. Remove one screw (callout 2).

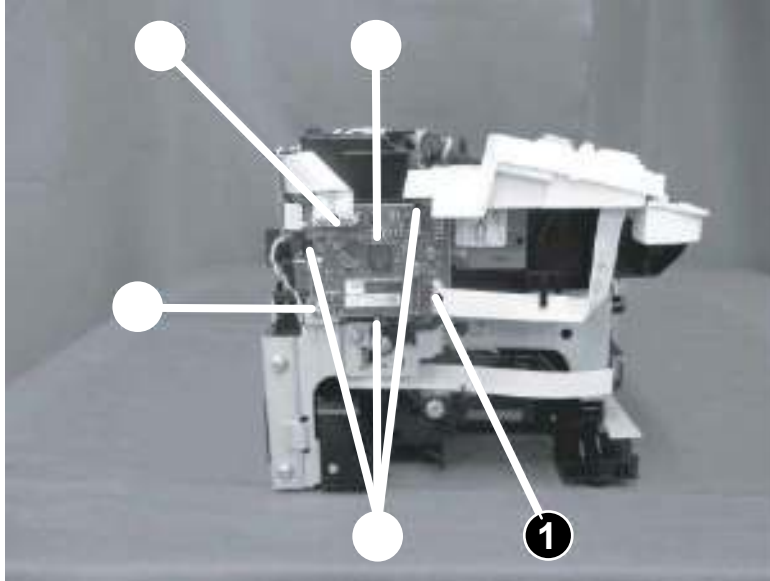
🔧 **NOTE:** Use a micro tip screwdriver to remove this screw.

- c. Release three tabs (callout 3).


- d. Remove the formatter (callout 4).

💡 **Reinstallation tip:** Reverse the removal steps to install the assembly.

Figure 1-110 Remove the formatter



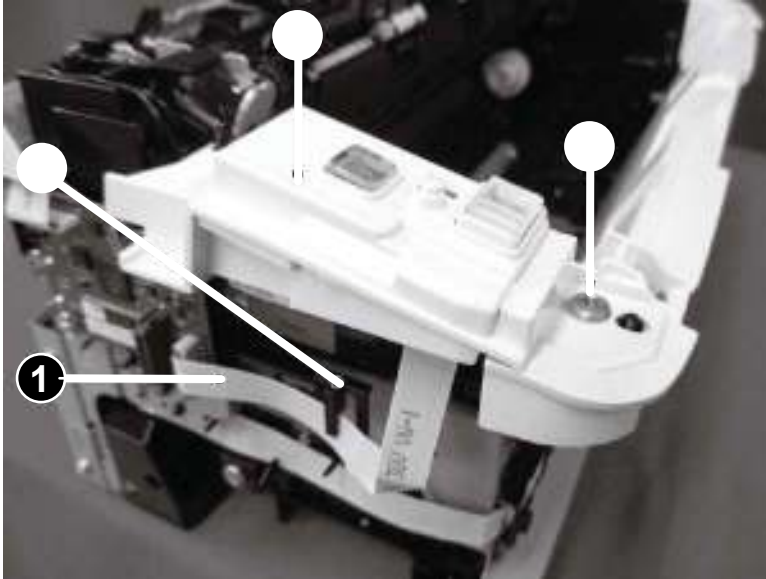
Step 5: Remove the control panel (M14-M17)

 **NOTE:** Removing the formatter in the previous step, disconnects the control-panel FFC. Skip the FFC disconnect step in the procedure below.

- ▲ Disconnect one flat flexible cable (FFC) (callout 1), remove one screw (callout 2), and then remove the control panel (callout 3).
 - Disconnect one flat-flexible cable (FFC) (callout 1).
 - Release the FFC (callout 1) from the guide (callout 2).
 - Remove one screw (callout 3).
 - Remove the control panel (callout 4).

 **Reinstallation tip:** Reverse the removal steps to install the assembly.

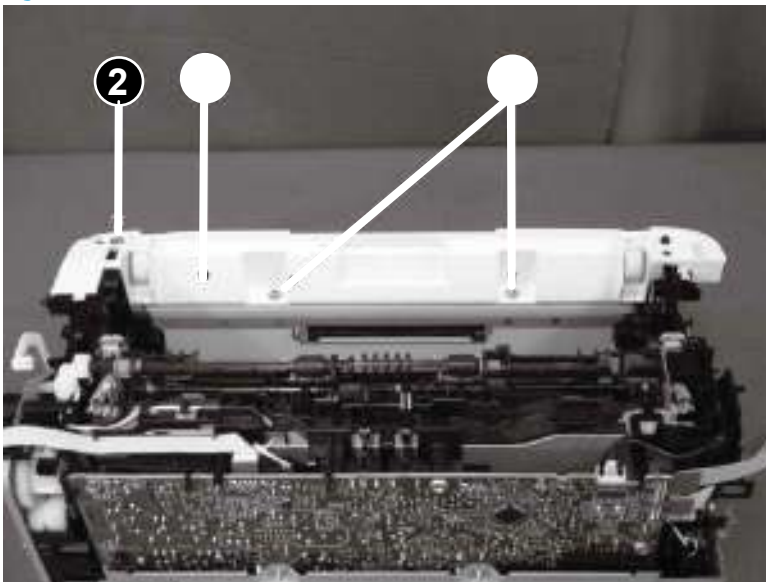
Figure 1-111 Remove the control panel



Step 6: Remove the pickup roller arm (M14-M17)

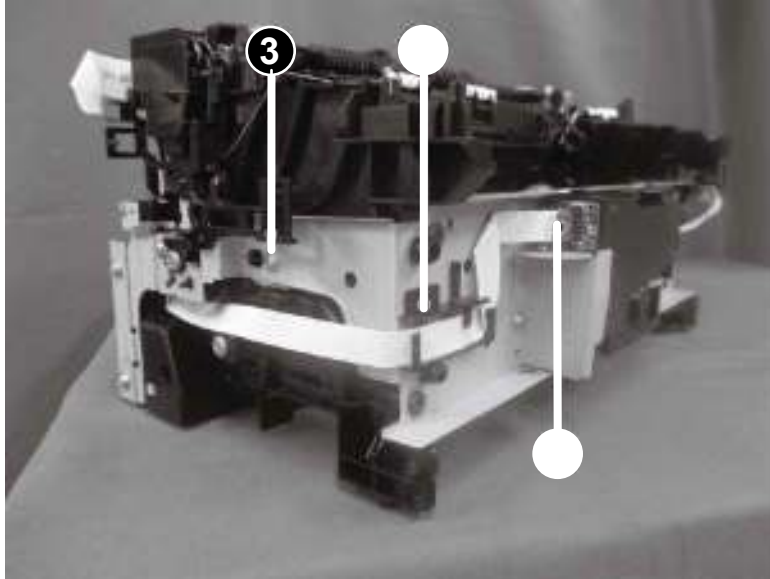
1. Remove two screws (M3; callout 1), remove one screw (M4; callout 2), and then remove the inner cover (callout 2).

Figure 1-112 Remove the inner cover



2. Disconnect one flat-flexible cable (FFC) (callout 1) and release it from the guide (callout 2), and then remove one screw (callout 3).

Figure 1-113 Disconnect the FFC and remove a screw



3. Disconnect one connector (callout 1), remove four screws (callout 2), and then remove the scanner stay (callout 3) and laser scanner assembly (callout 4).

 **NOTE:** Remove the scanner stay and laser scanner assembly as one part.


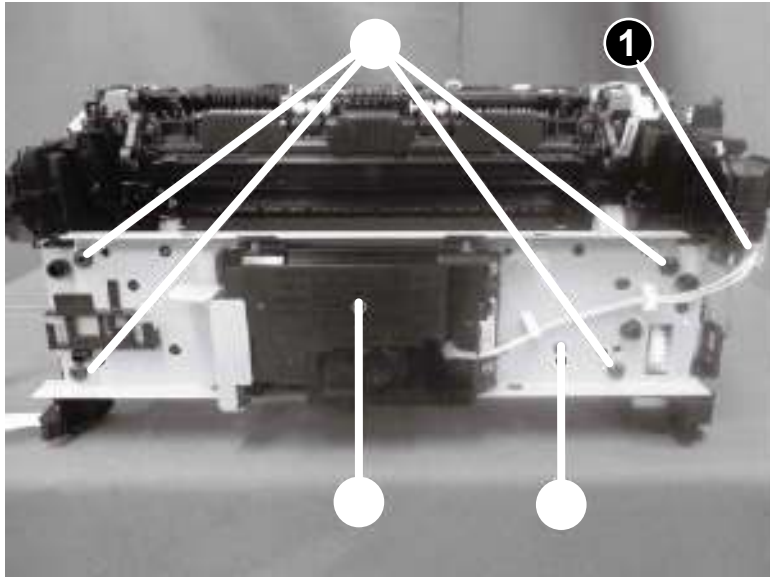
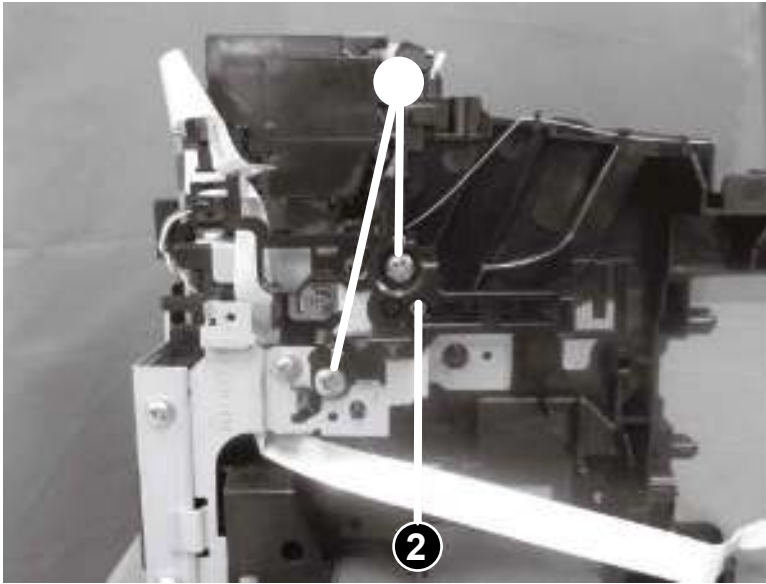
 **Reinstallation tip:** Make sure that the printer is on a flat surface when reinstalling the scanner stay (callout 3).

Figure 1-114 Remove the scanner stay and laser scanner assembly



4. Remove two screws (callout 1), and then remove the guide (callout 2).

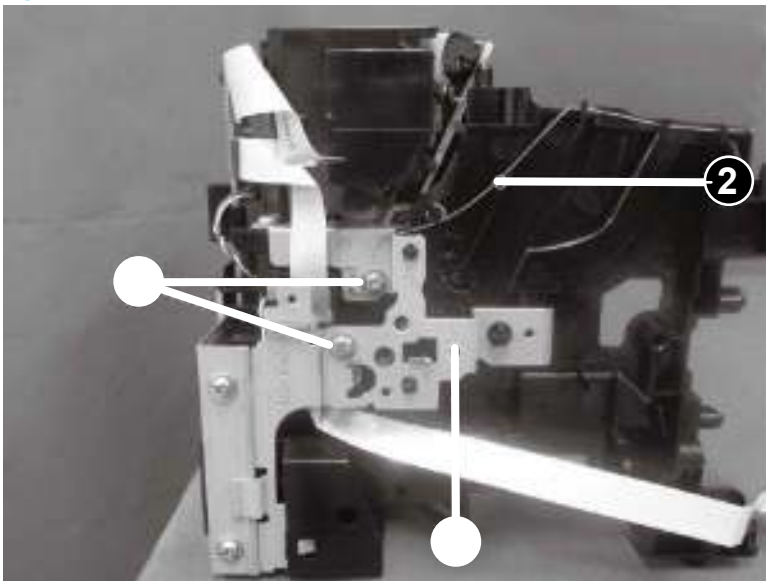
Figure 1-115 Remove the guide



5. Release one spring (callout 2) from the plate (callout 1), remove two screws (callout 3), and then remove the plate (callout 2).

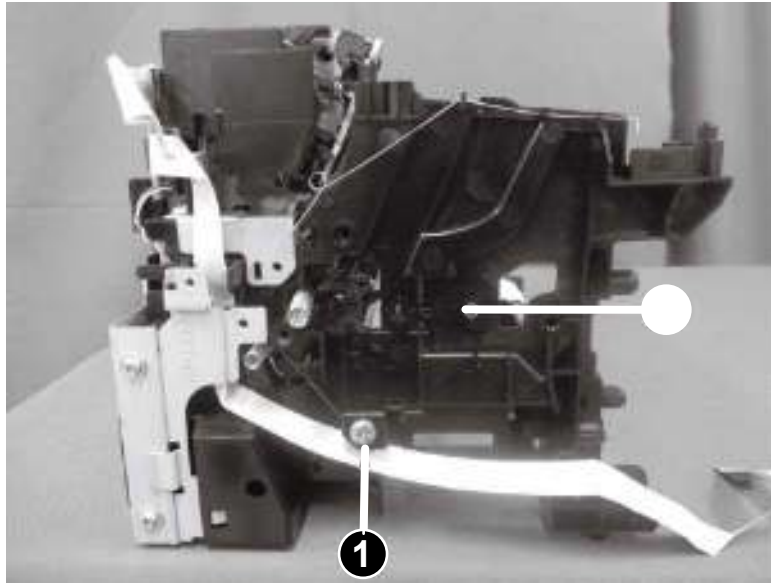
 **Reinstallation tip:** To reinstall the spring, see [Special installation instructions: Pickup roller arm \(M14-M17\) on page 119](#).

Figure 1-116 Remove the plate



6. Remove one screw (callout 1), and then remove the guide (callout 2).

Figure 1-117 Remove the guide

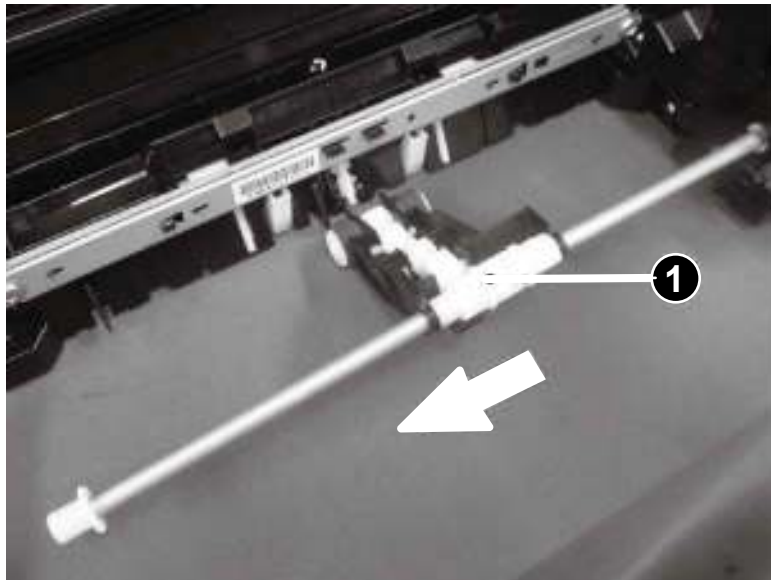


7. Slide the pickup roller arm (callout 1) as shown below to remove it.

CAUTION: Do not apply great force to the pickup roller arm shaft when removing it to avoid deforming the shaft.

Reinstallation tip: To reinstall the pick roller arm, see [Special installation instructions: Pickup roller arm \(M14-M17\) on page 119](#).

Figure 1-118 Remove the pickup roller arm

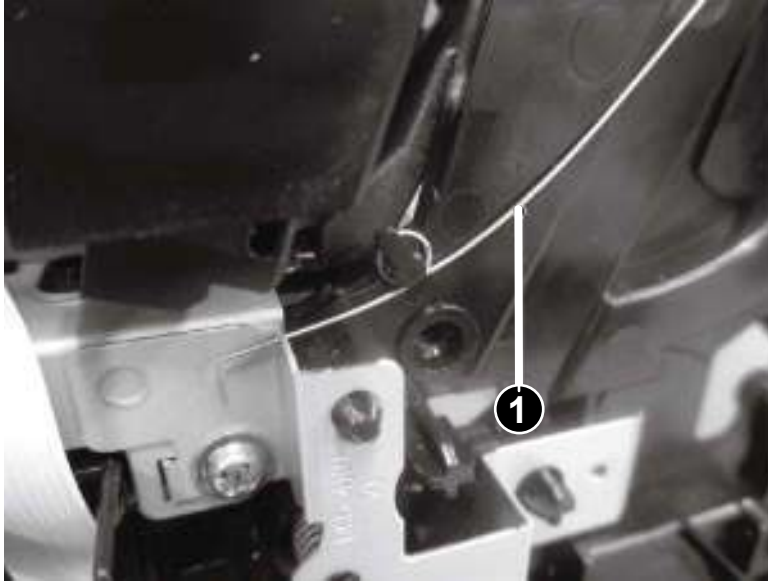


8. Reverse the removal steps to install the assembly. Also use the following special installation instructions.

Special installation instructions: Pickup roller arm (M14-M17)

- a. Make sure the spring (callout 1) is firmly held in its original position when it is reinstalled.

Figure 1-119 Reinstall the spring

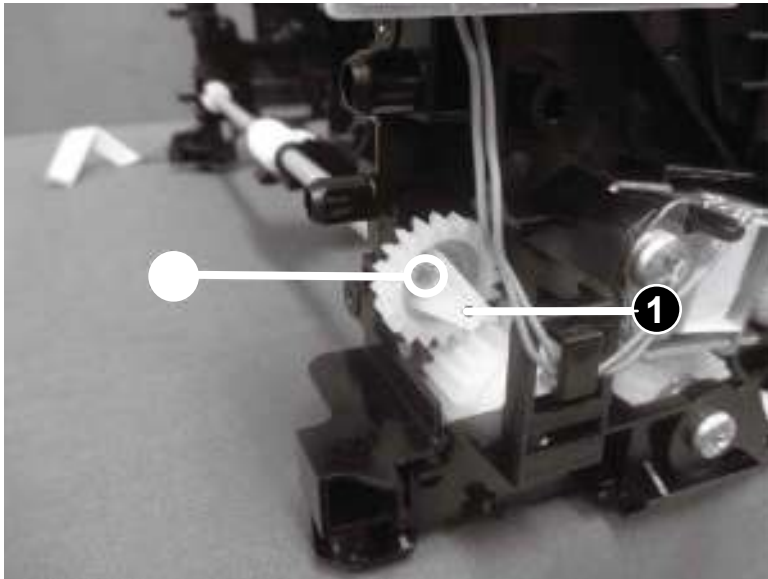


- b. When the pick roller arm is correctly installed, the stepped end of the shaft (callout 2) protrudes from the hole in the gear (callout 1).



NOTE: Continue to reverse the removal steps to finish installing the assembly.

Figure 1-120 Reinstall the pickup roller arm



Step 7: Unpack the replacement assembly

1. Dispose of the defective part.



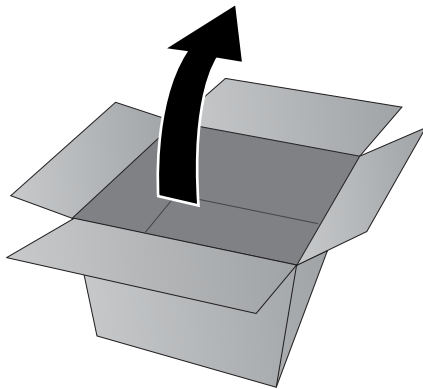
NOTE: HP recommends responsible disposal of the defective part.

www.hp.com/recycle

2. Unpack the replacement part from the packaging.

CAUTION: If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands or before touching rollers or pads.

IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.



Remove and replacement: Pickup roller arm (M28-M317)

- [Introduction](#)
- [Step 1: Remove the formatter cover \(MFP M28-M31\)](#)
- [Step 2: Remove the image scanner \(MFP M28-M31\)](#)
- [Step 3: Remove the top cover \(MFP M28-M31\)](#)
- [Step 4: Remove the lower cover \(MFP M28-M31\)](#)
- [Step 6: Remove the pickup roller arm \(M28-M31\)](#)
- [Step 7: Unpack the replacement assembly](#)

Introduction

This document provides the procedures to remove and replace the pickup roller arm (M28-M31).



IMPORTANT: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Before performing service

- Turn the printer power off.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts

Pickup roller arm (M28-M31) part number	
RM2-2106-000CN	Pickup roller arm (M28-M31)

Required tools

- #2 Phillips screwdriver with a magnetic tip
- Small flat-blade screw driver (optional)

After performing service

- Make sure that the cartridge door is fully closed after replacing the pickup roller.
- Turn the printer power on.

Post service test

Send a job to the printer, and then verify that it correctly picks paper.

Step 1: Remove the formatter cover (MFP M28-M31)

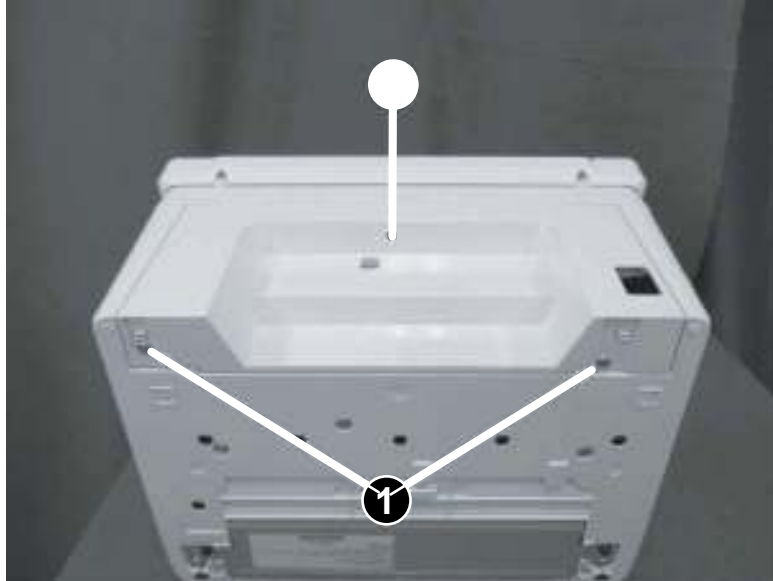
- ▲ Position the printer front side down.

Remove two screws (callout 1), and then remove the formatter cover (callout 2).



Reinstallation tip: Reverse the removal steps to install the assembly.

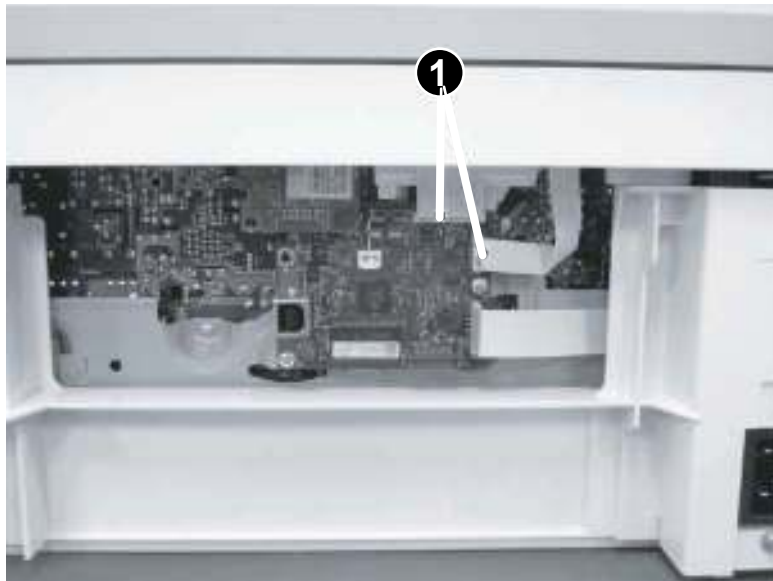
Figure 1-121 Remove the formatter cover (MFP M28-M31)



Step 2: Remove the image scanner (MFP M28-M31)

1. Disconnect two flat flexible cables (FFCs) (callout 1).

Figure 1-122 Disconnect two FFCs

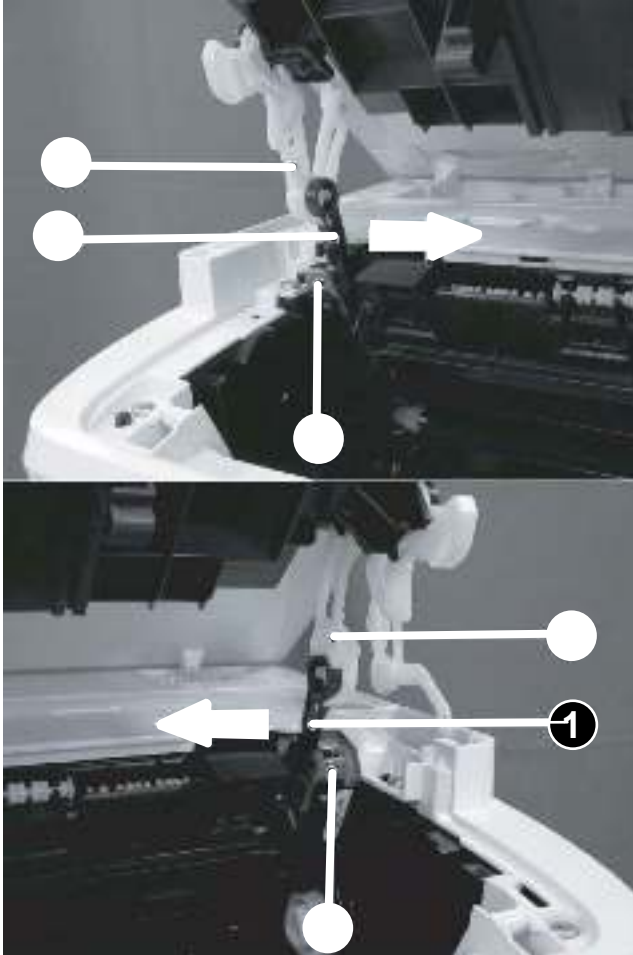


2. Before proceeding, take note of the following disassembly instructions.

When removing the link arm (callout 2) from the pressure release lever (callout 1), the pressure plate (callout 3) might be deformed if the pressure release lever moves in the direction shown below.

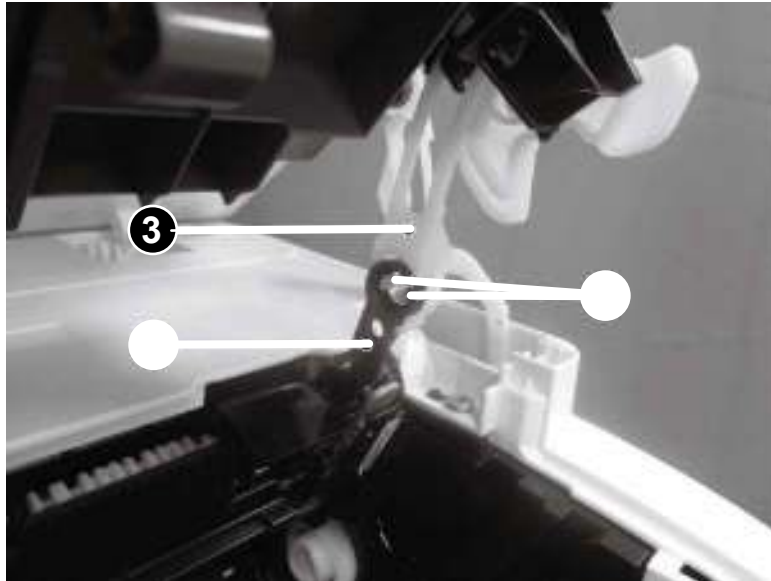
 **CAUTION:** Do not deform the pressure plate.

Figure 1-123 Special disassembly instructions



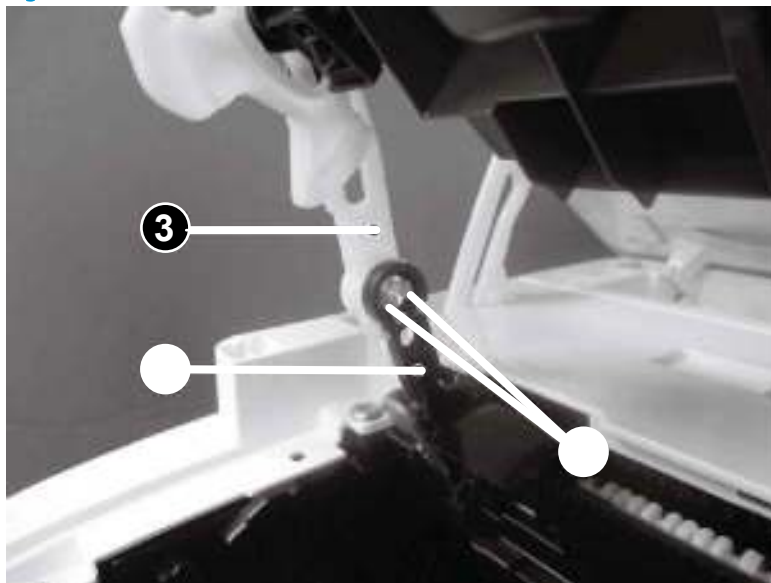
3. Open the image scanner, release two tabs (callout 1), remove one link arm (callout 3) from the pressure release lever (callout 2).

Figure 1-124 Remove the link arm



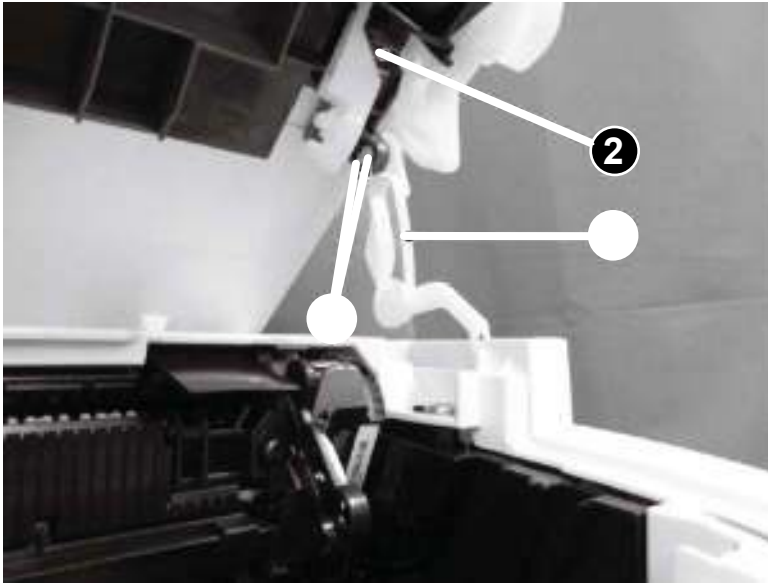
4. Release two tabs (callout 1), and then remove one link arm (callout 3) from the pressure release lever (callout 2).

Figure 1-125 Remove the link arm



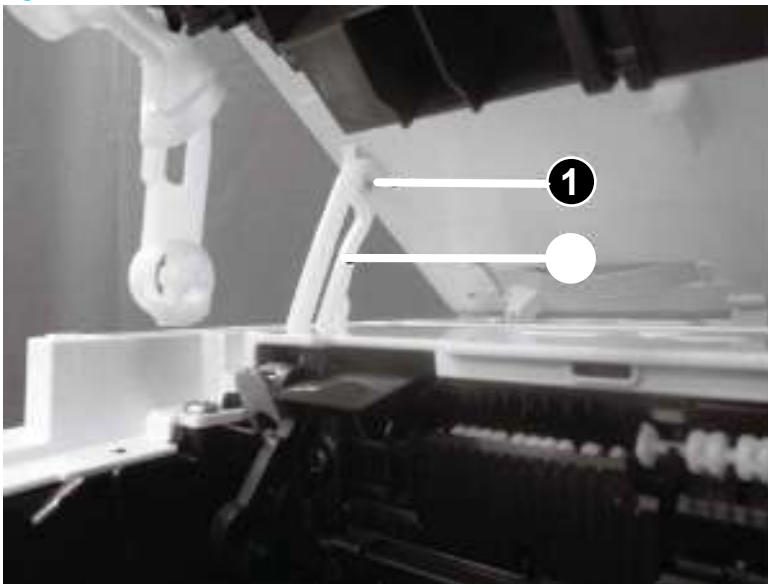
5. Release two tabs (callout 1), and then remove one link arm (callout 3) from the cartridge door (callout 2).

Figure 1-126 Remove the link arm



6. Remove one link arm (callout 2) from the shaft (callout 1).

Figure 1-127 Remove the link arm



7. Pull two flat-flexible cables (FFCs) (callout 2) out and away from the top cover (callout 1), and then slide the image scanner (callout 3) as shown below to remove it.

CAUTION: Do not damage the FFCs.

Reinstallation tip: Reverse the removal steps to install the assembly.

Figure 1-128 Remove the image scanner

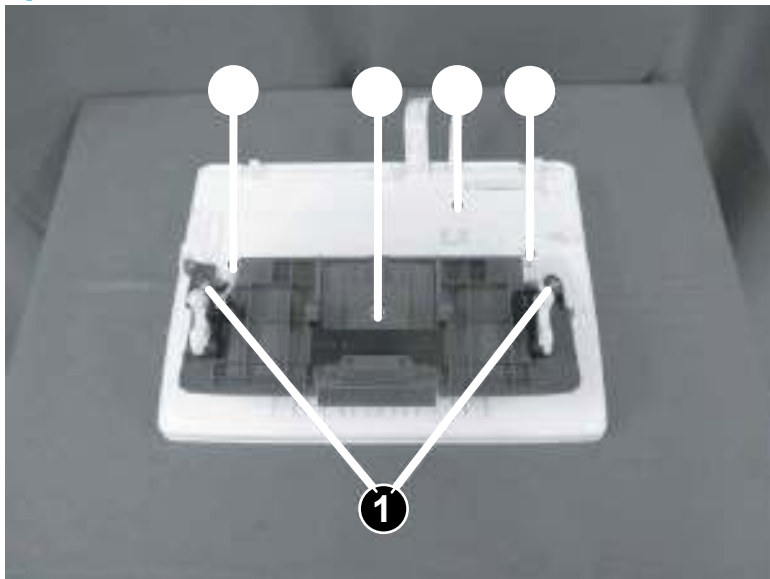


8. For a replacement image scanner, do the following:

NOTE: If the image scanner is removed to access other assemblies, skip this step.

- Remove two screws (callout 1).
- Remove the cartridge door (callout 3) (with the link arms; callout 4) from the image scanner (callout 2).

Figure 1-129 Remove the cartridge door



Step 3: Remove the top cover (MFP M28-M31)

1. Remove two screws (M3; callout 1), remove seven screws (M4; callout 2), release one tab (callout 3), and then remove the top cover (callout 4).


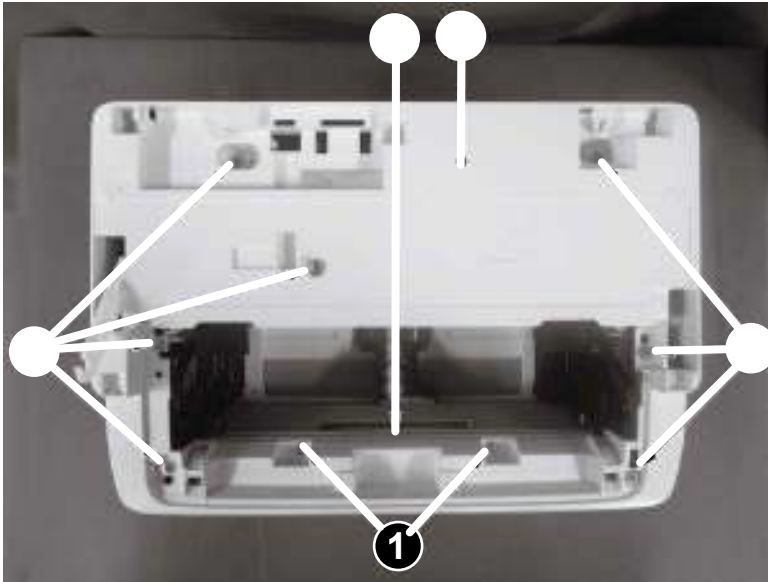

 **Reinstallation tip:** Reverse the removal steps to install the assembly.

Figure 1-130 Remove the top cover



2. Reverse the removal steps to install the assembly. Also use the following special installation instructions.

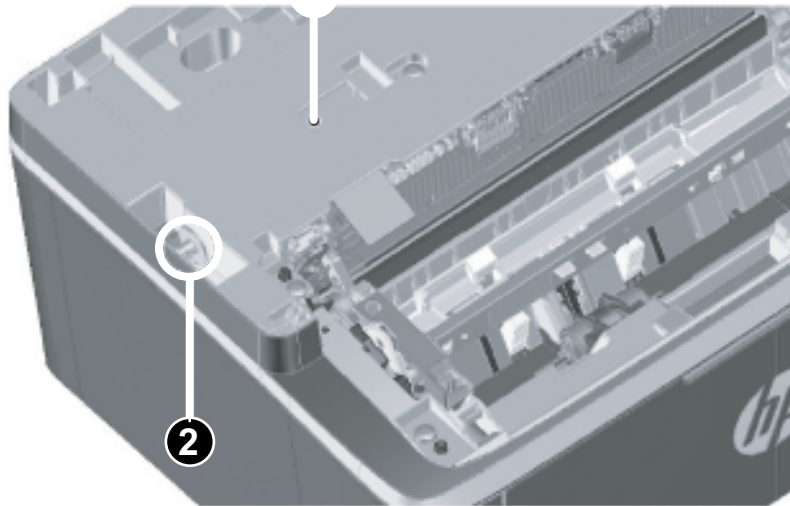
 **NOTE:** Continue to reverse the removal steps to finish installing the assembly.

 **TIP:** If the top cover is removed to access other assemblies, skip this step.

Special installation instructions: Top cover

- ▲ Remove the pad (callout 2) from the top cover (callout 1), and then install it on the replacement top cover.

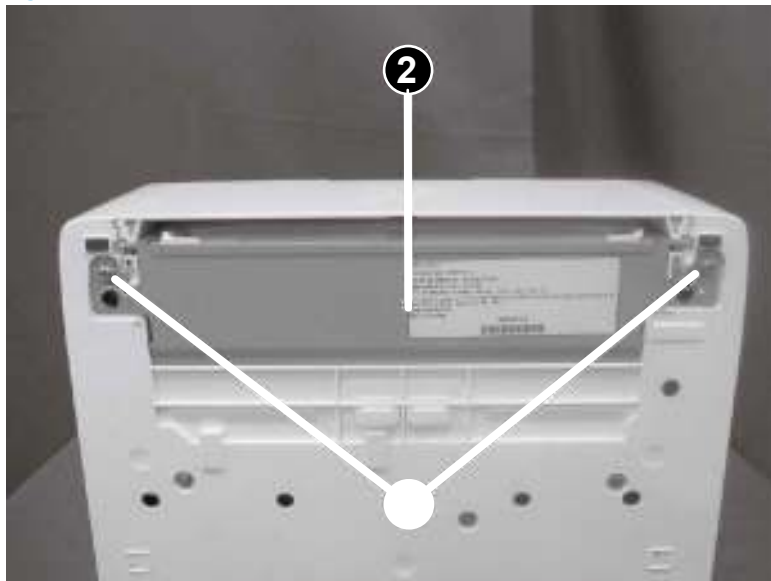
Figure 1-131 Install the pad



Step 4: Remove the lower cover (MFP M28-M31)

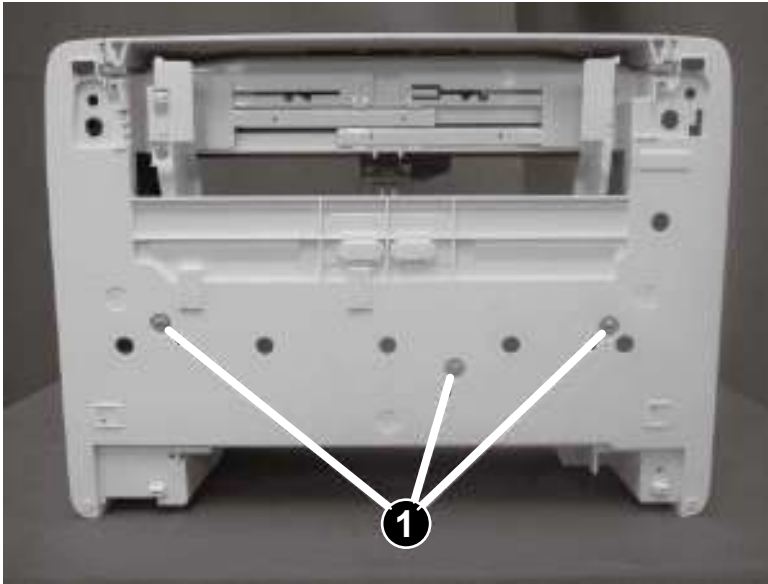
1. Position the printer rear side down, remove two screws (callout 1), and then remove the lower plate (callout 2)

Figure 1-132 Remove the lower plate



2. Remove three screws (callout 1).

Figure 1-133 Remove three screws



3. Remove two screws (callout 1), and then remove the lower cover (callout 2).


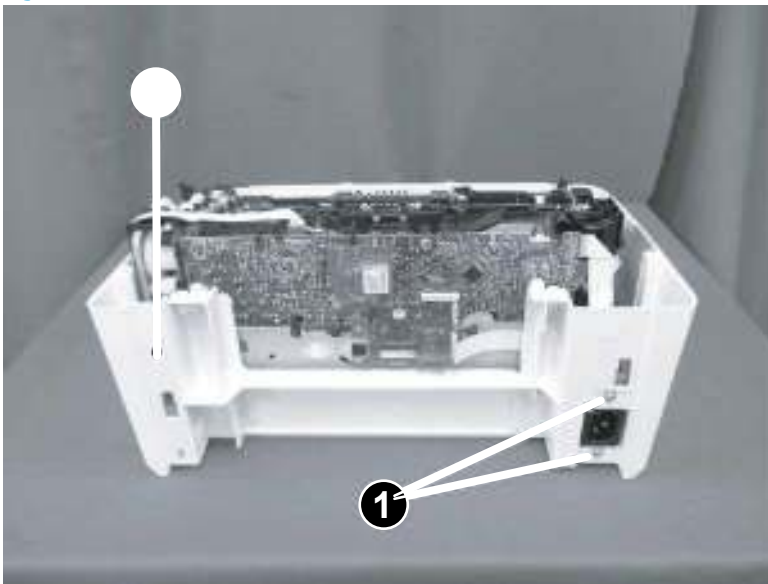
 **Reinstallation tip:** Reverse the removal steps to install the assembly.

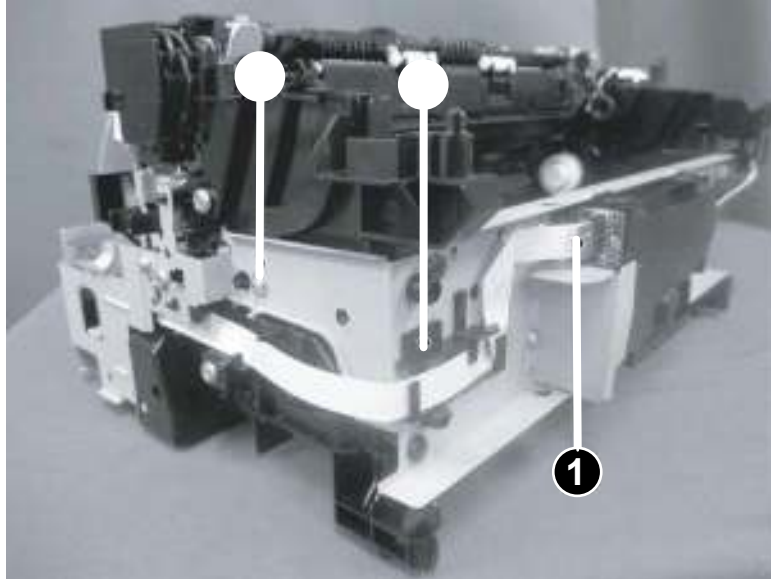
Figure 1-134 Remove the lower cover



Step 6: Remove the pickup roller arm (M28-M31)

1. Disconnect one flat-flexible cable (FFC) (callout 1), release the FFC from the guide (callout 2), and then remove one screw (callout 3).

Figure 1-135 Release the FFC and remove one screw



2. Disconnect one connector (callout 1), remove four screws (callout 2), and then remove the scanner stay (callout 3) and laser scanner assembly (callout 4).

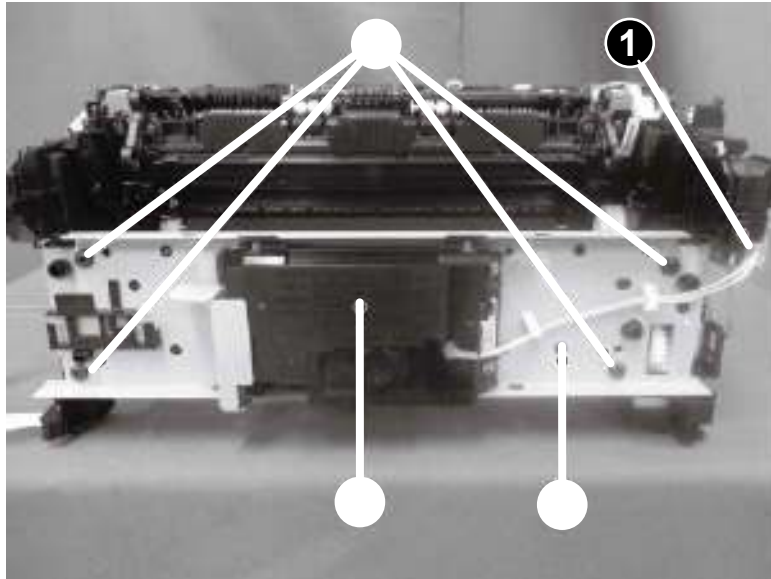


NOTE: Remove the scanner stay and laser scanner assembly as one part.



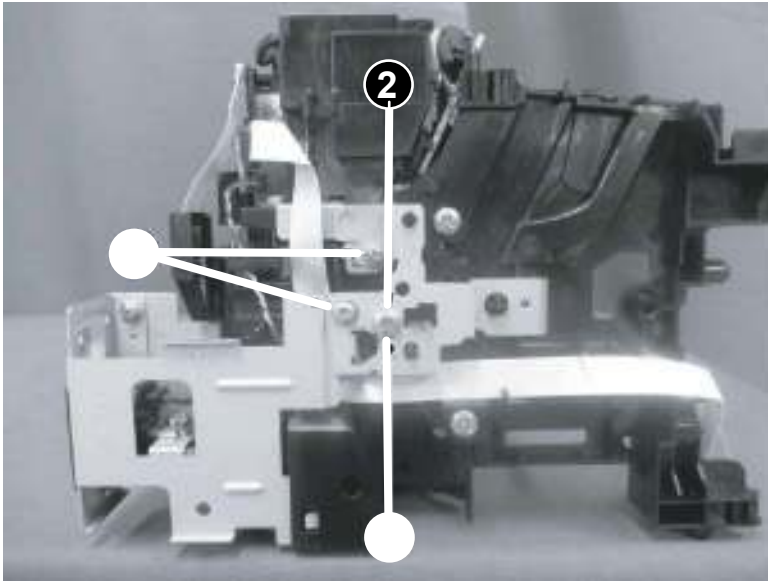
Reinstallation tip: Make sure that the printer is on a flat surface when reinstalling the scanner stay (callout 3).

Figure 1-136 Remove the scanner stay and laser scanner assembly



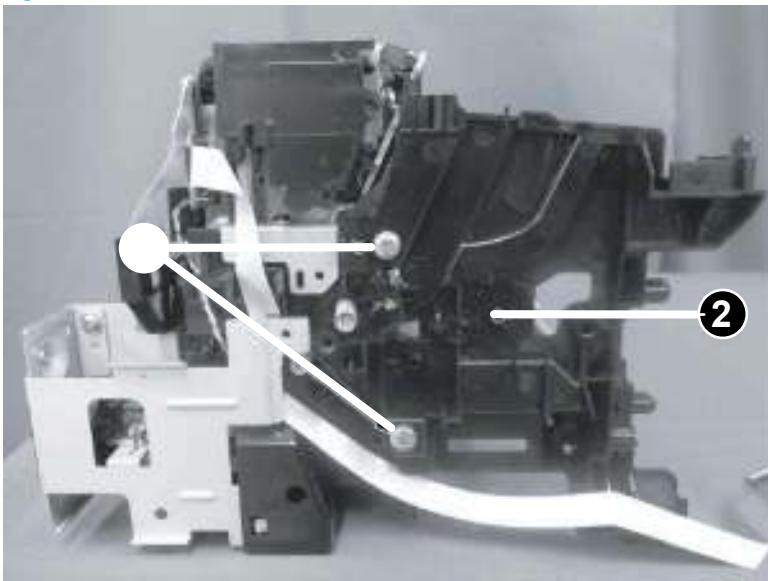
3. Remove two screws (M3; callout 1), remove one screw (M4; callout 1), and then remove the plate (callout 3).

Figure 1-137 Remove the plate



4. Remove two screws (callout 1), and then remove the cartridge guide (callout 2).

Figure 1-138 Remove the cartridge guide

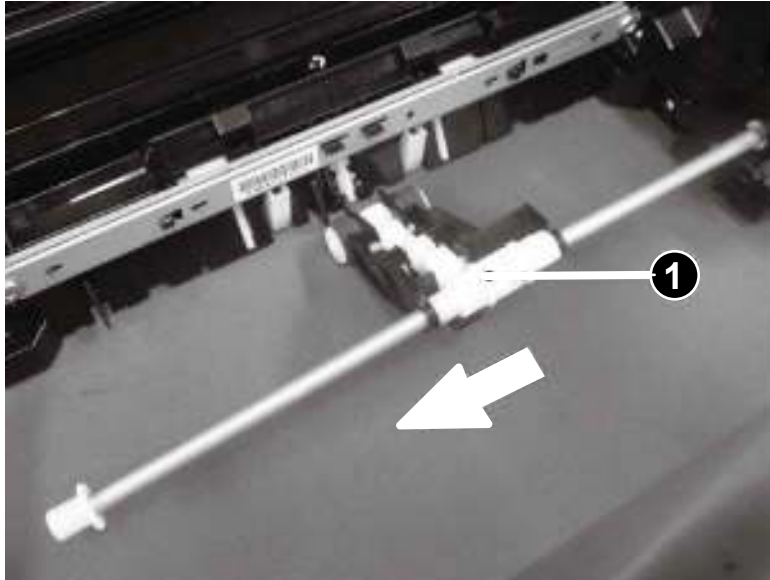


5. Slide the pickup roller arm (callout 1) as shown below to remove it.

CAUTION: Do not apply great force to the pickup roller arm shaft when removing it to avoid deforming the shaft.

Reinstallation tip: To reinstall the pick roller arm, see [Special installation instructions: Pickup roller arm \(M28-M31\)](#) on page 133.

Figure 1-139 Remove the pickup roller arm



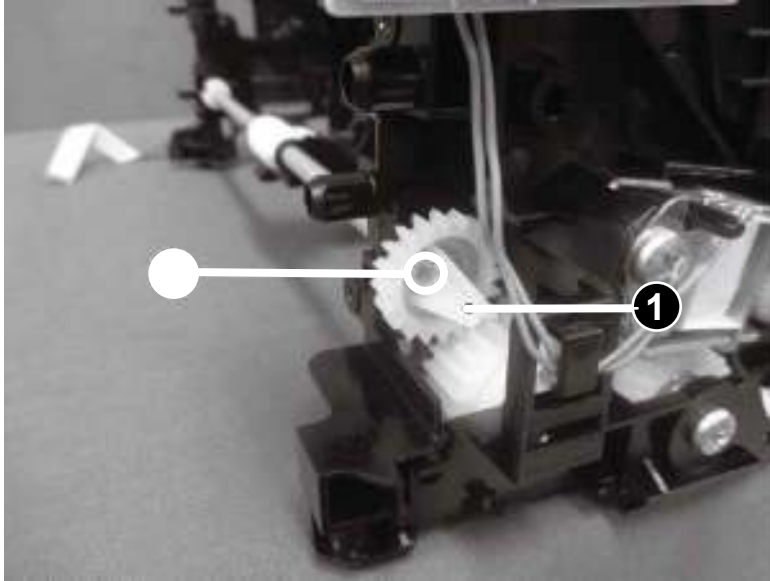
6. Reverse the removal steps to install the assembly. Also use the following special installation instructions.

Special installation instructions: Pickup roller arm (M28-M31)

- ▲ When the pick roller arm is correctly installed, the stepped end of the shaft (callout 2) protrudes from the hole in the gear (callout 1).

NOTE: Continue to reverse the removal steps to finish installing the assembly.

Figure 1-140 Reinstall the pickup roller arm



Step 7: Unpack the replacement assembly

1. Dispose of the defective part.



NOTE: HP recommends responsible disposal of the defective part.

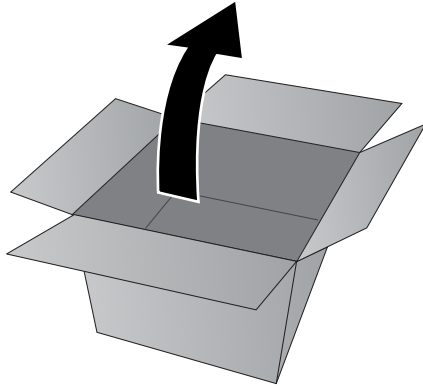
www.hp.com/recycle



2. Unpack the replacement part from the packaging.

CAUTION: If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands or before touching rollers or pads.

IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.



Remove and replacement: Transfer roller

- [Introduction](#)
- [Step 1: Remove the roller](#)
- [Step 2: Unpack the replacement assembly](#)
- [Step 3: Install the roller](#)

Introduction

This document provides the procedures to remove and replace the transfer roller.



IMPORTANT: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Before performing service

- Turn the printer power off.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts

Transfer roller part number	
RM1-4023-000CN	Transfer roller

Required tools

- No special tools are needed to remove or install this assembly.

After performing service

- Make sure that the cartridge door is fully closed after replacing the transfer roller.
- Turn the printer power on.

Post service test

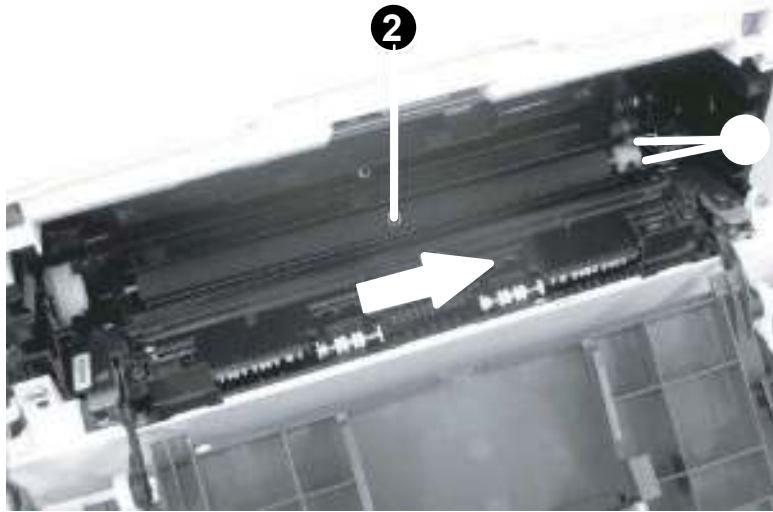
Send a job to the printer, and then verify that print quality is acceptable.

Step 1: Remove the roller

Open the toner-cartridge door, and the position the printer with the rear side down.

- ▲ Pinch two tabs (callout 1), and then pull out the transfer roller (callout 2) retainer.

Figure 1-141 Remove transfer roller



Step 2: Unpack the replacement assembly

1. Dispose of the defective part.



NOTE: HP recommends responsible disposal of the defective part.

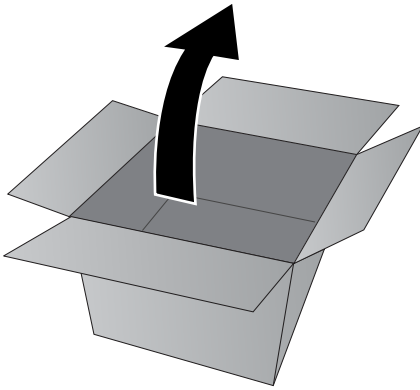
www.hp.com/recycle



2. Unpack the replacement part from the packaging.

⚠ CAUTION: If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands or before touching rollers or pads.

📋 IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.

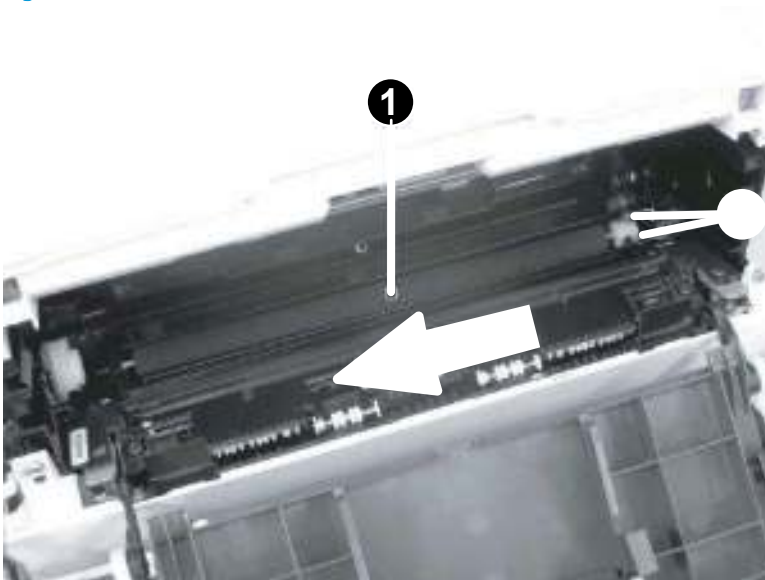


Step 3: Install the roller

⚠ CAUTION: Do not touch the black spongy portion of the replacement roller. Skin oils on the roller can cause paper handling problems.

- ▲ Install the shaft end of the roller (callout 1) in the holder, and then install the retainer. Make sure that the two tabs (callout 2) snap into place.

Figure 1-142 Install the transfer roller



Remove and replacement: Hinge link (M28-M31)

- [Introduction](#)
- [Step 1: Remove the hinge link \(M28-M31\)](#)
- [Step 2: Unpack the replacement assembly](#)

Introduction

This document provides the procedures to remove and replace the hinge link (M28-M31).



IMPORTANT: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Before performing service

- Turn the printer power off.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts

Hinge link (M28-M31) part number	
RC5-4941-000CN	Hinge link (M28-M31)

Required tools

- No special tools are needed to remove or install this assembly.

After performing service

- Make sure that the document lid is fully closed after replacing it.
- Turn the printer power on.

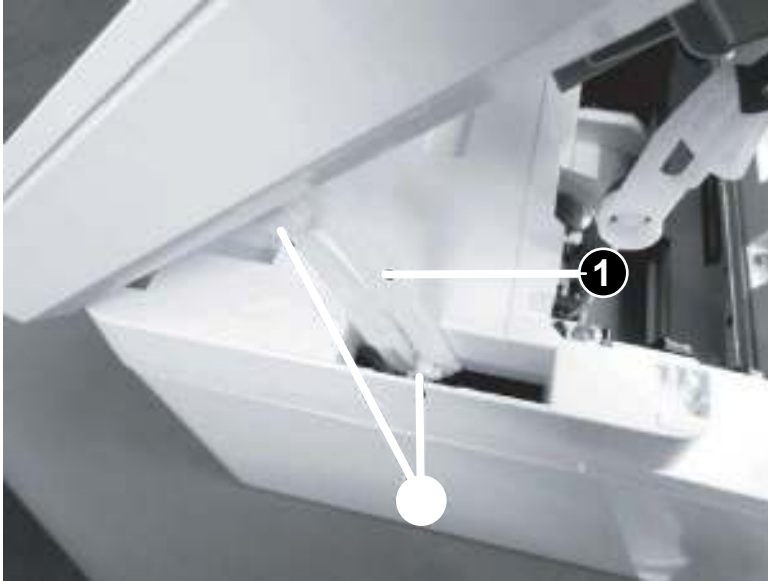
Post service test

No post service test is available for this assembly.

Step 1: Remove the hinge link (M28-M31)

- ▲ Do the following:
 - Open the cartridge door.
 - Release the hinge link (callout 1) from two shafts (callout 2) to remove it.

Figure 1-143 Remove the hinge link (M28-M31)



Step 2: Unpack the replacement assembly

1. Dispose of the defective part.



NOTE: HP recommends responsible disposal of the defective part.

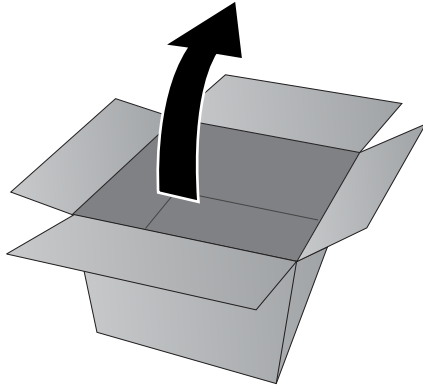
www.hp.com/recycle



2. Unpack the replacement part from the packaging.

⚠ CAUTION: If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands or before touching rollers or pads.

📋 IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.



Remove and replacement: Laser scanner and flat flexible cable

- [Introduction](#)
- [Step 1: Remove the cartridge door \(M14-M17\)](#)
- [Step 2: Remove the formatter cover \(M14-M17\)](#)
- [Step 3: Remove the lower cover \(M14-M17\)](#)
- [Step 4: Remove the formatter cover \(MFP M28-M31\)](#)
- [Step 5: Remove the image scanner \(MFP M28-M31\)](#)
- [Step 6: Remove the top cover \(MFP M28-M31\)](#)
- [Step 7: Remove the lower cover \(MFP M28-M31\)](#)
- [Step 8: Remove the laser scanner and FFC](#)
- [Step 9: Unpack the replacement assembly](#)

Introduction

This document provides the procedures to remove and replace the laser scanner.



IMPORTANT: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Before performing service

- Turn the printer power off.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts

Laser scanner and laser scanner FFC part numbers	
RM2-2150-000CN	Laser scanner assembly
RK2-9875-000CN	FFC, laser scanner

Required tools

- #2 Phillips screwdriver with a magnetic tip


After performing service

- Turn the printer power on.

Post service test

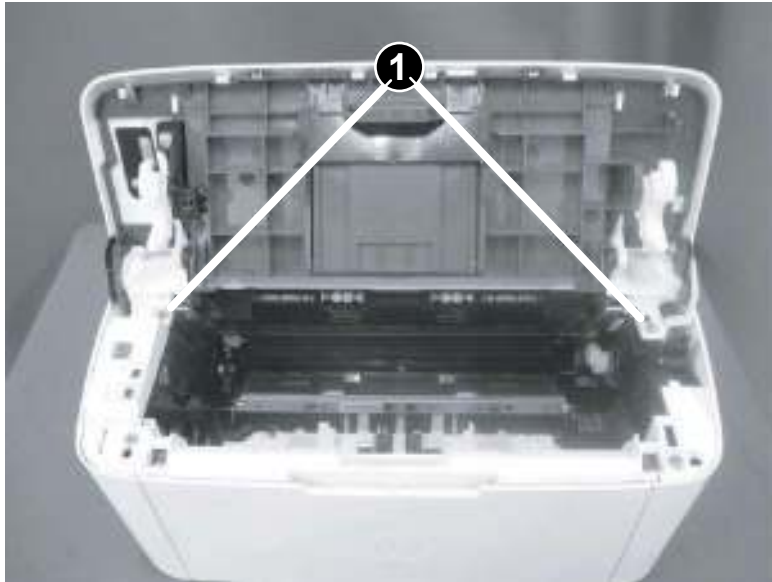
Send a job to the printer, and then verify that print quality is acceptable.

Step 1: Remove the cartridge door (M14-M17)

 **NOTE:** This step is for the M14-M17 printers. For all other printers, skip this step and go to [Step 4: Remove the formatter cover \(MFP M28-M31\) on page 150.](#)

1. Open the cartridge door, and then remove two screws (callout 1).

Figure 1-144 Remove two screw

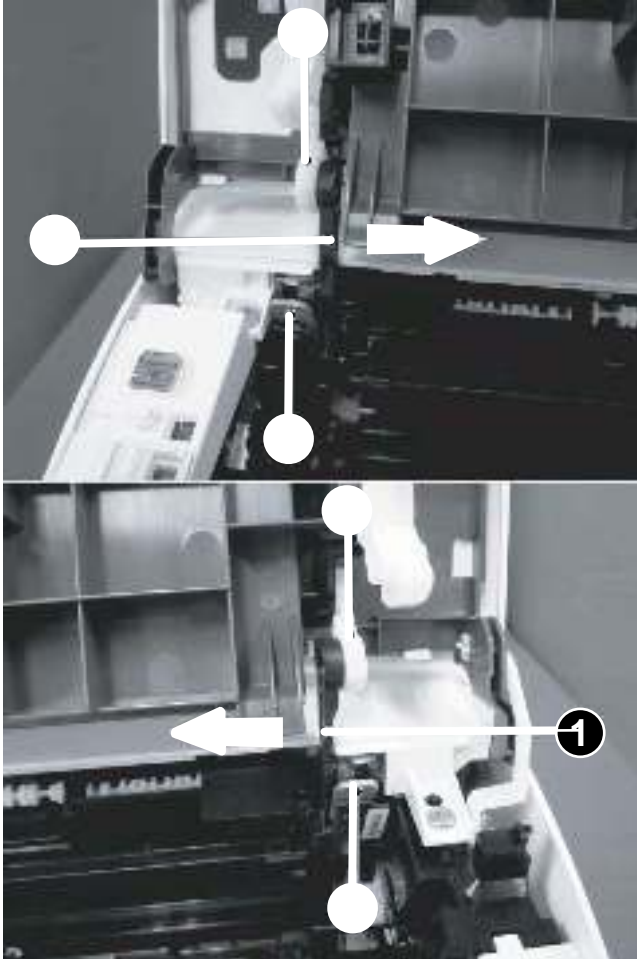


2. Before proceeding, take note of the following disassembly instructions.

When removing the link arm (callout 2) from the pressure release lever (callout 1), the pressure plate (callout 3) might be deformed if the pressure release lever moves in the direction shown below.

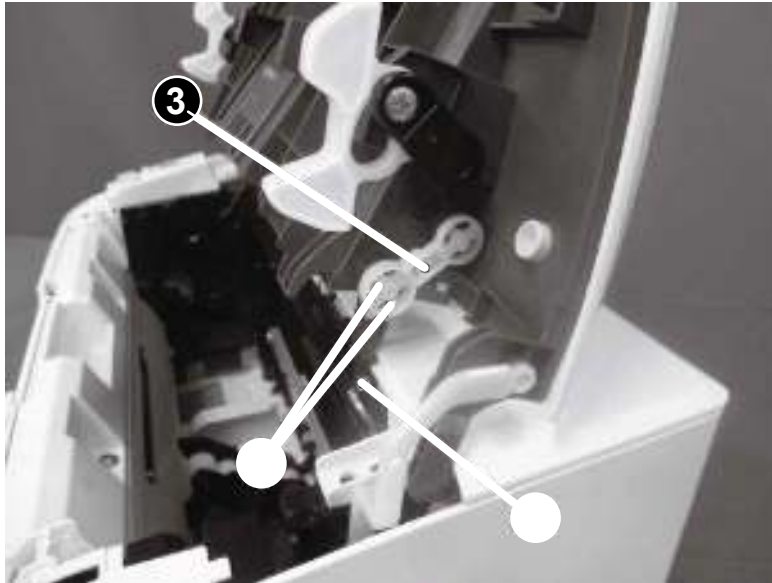
 **CAUTION:** Do not deform the pressure plate.

Figure 1-145 Special disassembly instructions



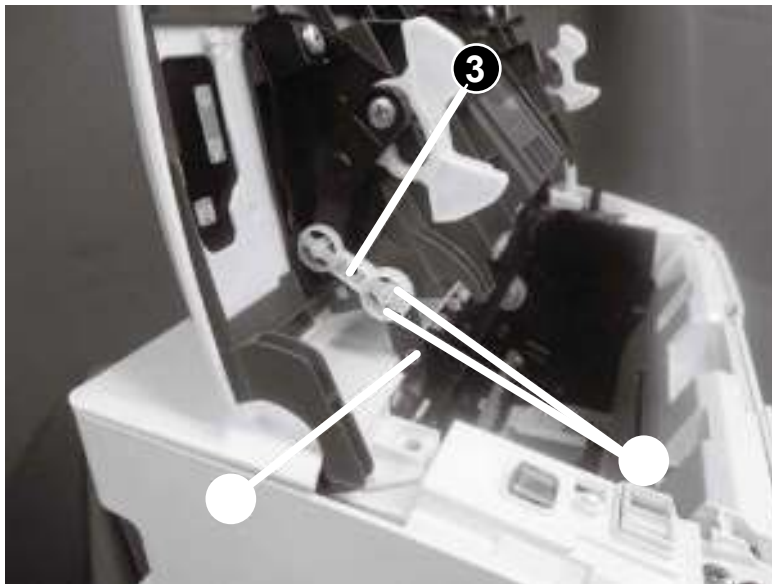
3. Release two tabs (callout 1), and then remove one link arm (callout 3) from the pressure release lever (callout 2).

Figure 1-146 Remove the link arm



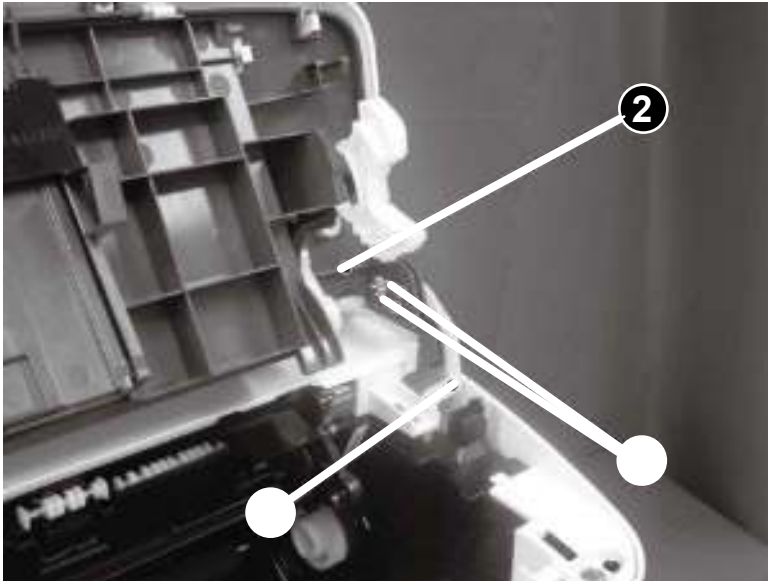
4. Release two tabs (callout 1), and then remove one link arm (callout 3) from the pressure release lever (callout 2).

Figure 1-147 Remove the link arm




5. Release two tabs (callout 1), and then remove one link arm (callout 3) from the cartridge door assembly (callout 2).

Figure 1-148 Remove the link arm

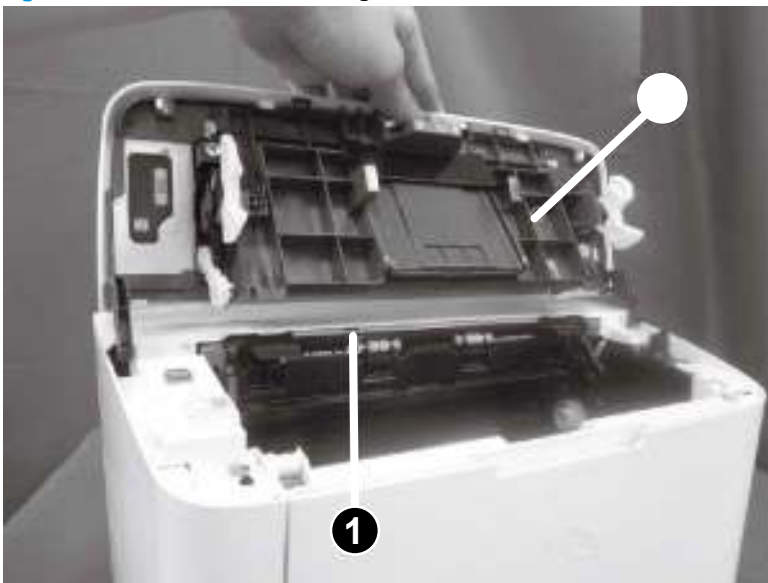


6. Release one tab (callout 1), support the cartridge door (callout 2), and then remove it.

 **NOTE:** If the cartridge door is removed to access other assembly, stop at this step.

 **Reinstallation tip:** Reverse the removal steps to install the door.

Figure 1-149 Remove the cartridge door

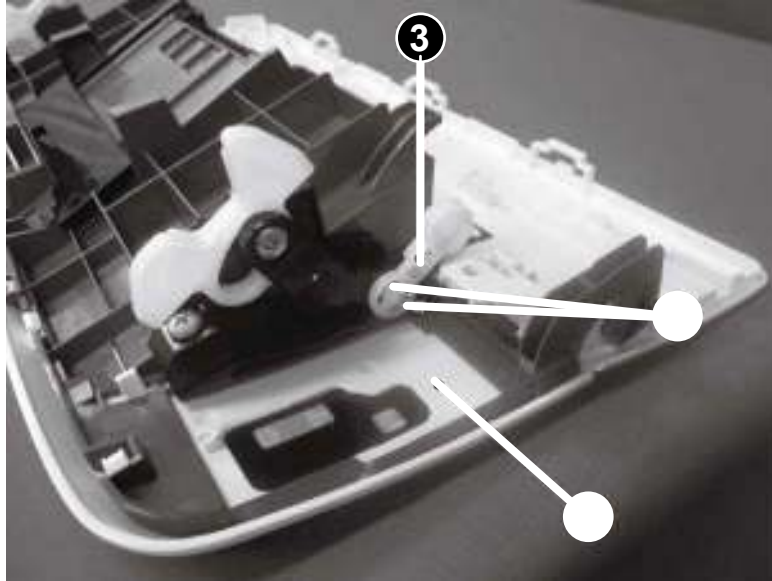


7. **Optional step:** If a replacement cartridge door is being installed, do the following:

 **NOTE:** Install the link arms on the replacement door.

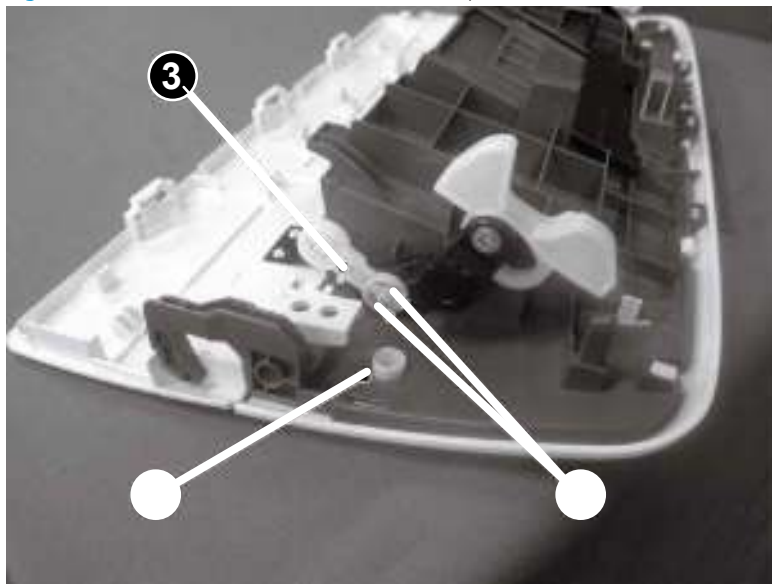
- a. Release two tabs (callout 1), and then remove the one link arm (callout 3) from the door assembly (callout 2).

Figure 1-150 Install the link arms on the replacement door




- b. Release two tabs (callout 1), and then remove the one link arm (callout 3) from the door assembly (callout 2).

Figure 1-151 Install the link arms on the replacement door



Step 2: Remove the formatter cover (M14-M17)

 **NOTE:** This step is for the M14-M17 printers. For all other printers, skip this step and go to [Step 4: Remove the formatter cover \(MFP M28-M31\) on page 150.](#)

- ▲ Position the printer front side down.

Release one tab (callout 1), and then remove the formatter cover (callout 2).


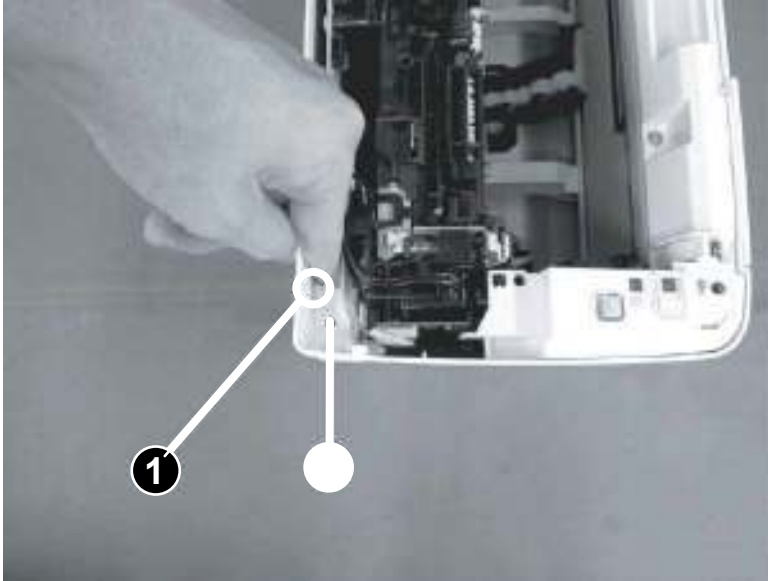

 **Reinstallation tip:** Reverse the removal steps to install the assembly.

Figure 1-152 Remove the formatter cover (M14-M17)

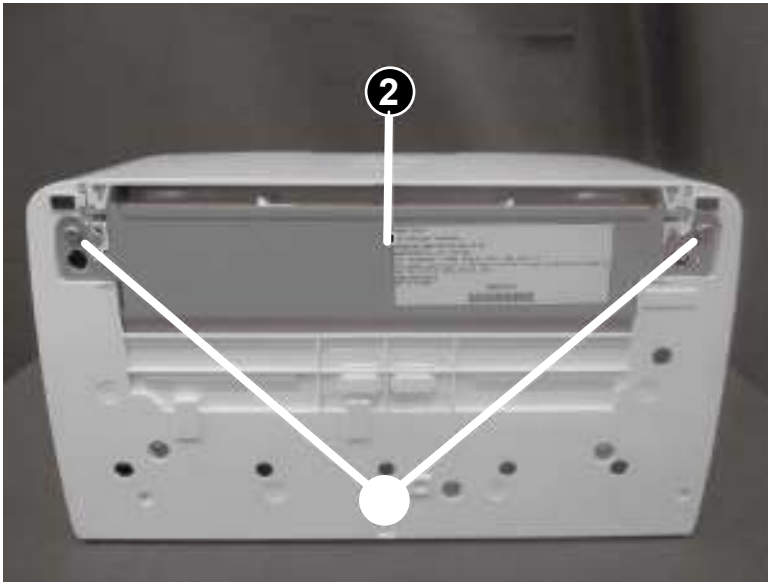


Step 3: Remove the lower cover (M14-M17)

 **NOTE:** This step is for the M14-M17 printers. For all other printers, skip this step and go to [Step 4: Remove the formatter cover \(MFP M28-M31\) on page 150](#).

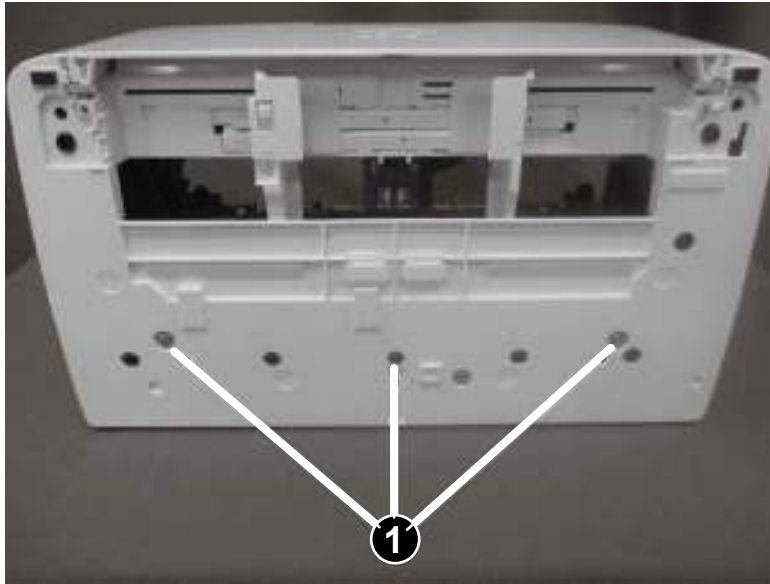
1. Position the printer rear side down, remove three screws (callout 1), and then remove the lower plate (callout 2).

Figure 1-153 Remove the lower plate



2. Remove three screws (callout 1)

Figure 1-154 Remove the three screws



3. With the printer in the upright position, release one tab (callout 1), and then remove the lower cover (callout 2).


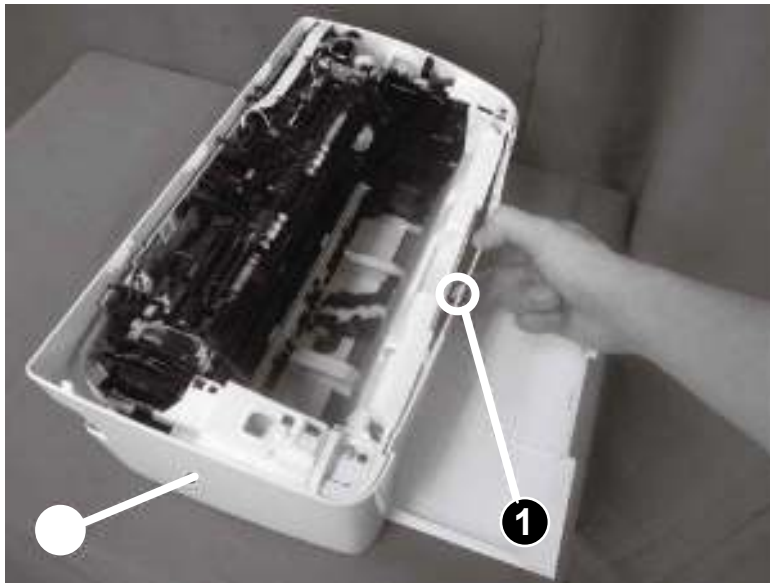
 **Reinstallation tip:** Reverse the removal steps to install the assembly.

Figure 1-155 Remove the lower cover



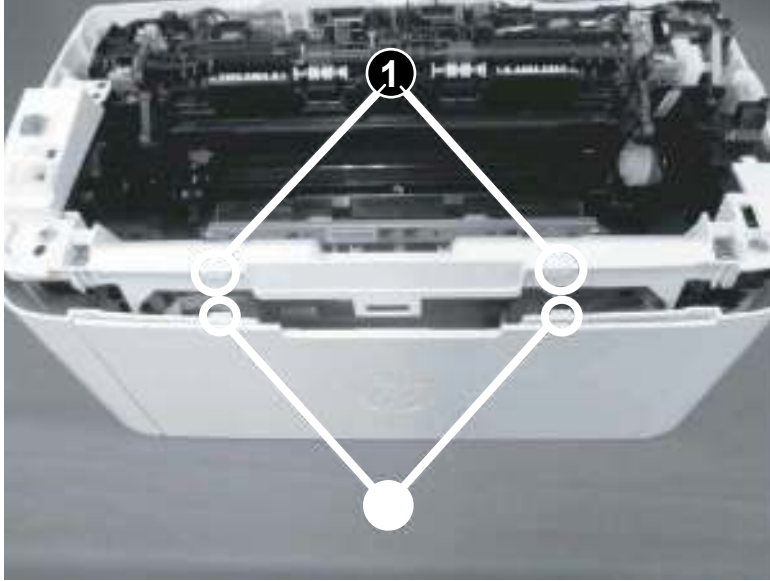
4. Reverse the removal steps to install the assembly. Also use the following special installation instructions.

 **NOTE:** Continue to reverse the removal steps to finish installing the assembly.


Special installation instructions: Lower cover

- ▲ Make sure to fit two ribs (callout 1) on the printer into the grooves (callout 2) in the lower cover.

Figure 1-156 Fit two ribs on the printer into the grooves (lower cover install)



Step 4: Remove the formatter cover (MFP M28-M31)

 **NOTE:** This step is for the MFP M28-M31 printers. For all other printers, skip this step and go to [Step 8: Remove the laser scanner and FFC on page 158](#).

- ▲ Position the printer front side down.

Remove two screws (callout 1), and then remove the formatter cover (callout 2).


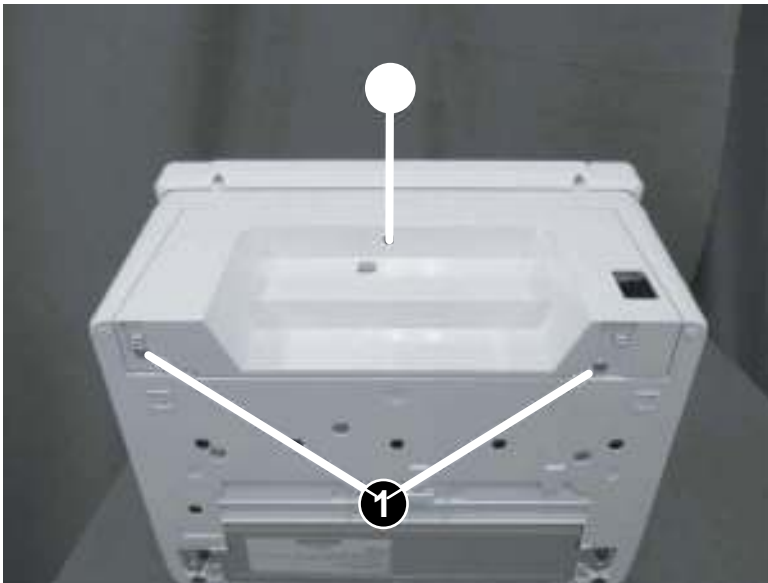

 **Reinstallation tip:** Reverse the removal steps to install the assembly.

Figure 1-157 Remove the formatter cover (MFP M28-M31)

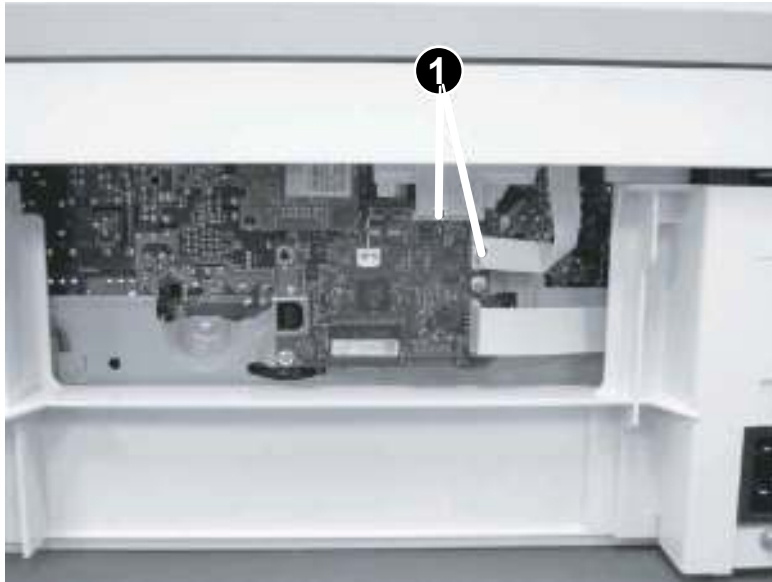


Step 5: Remove the image scanner (MFP M28-M31)

 **NOTE:** This step is for the MFP M28-M31 printers. For all other printers, skip this step and go to [Step 8: Remove the laser scanner and FFC on page 158](#).

1. Disconnect two flat flexible cables (FFCs) (callout 1).

Figure 1-158 Disconnect two FFCs

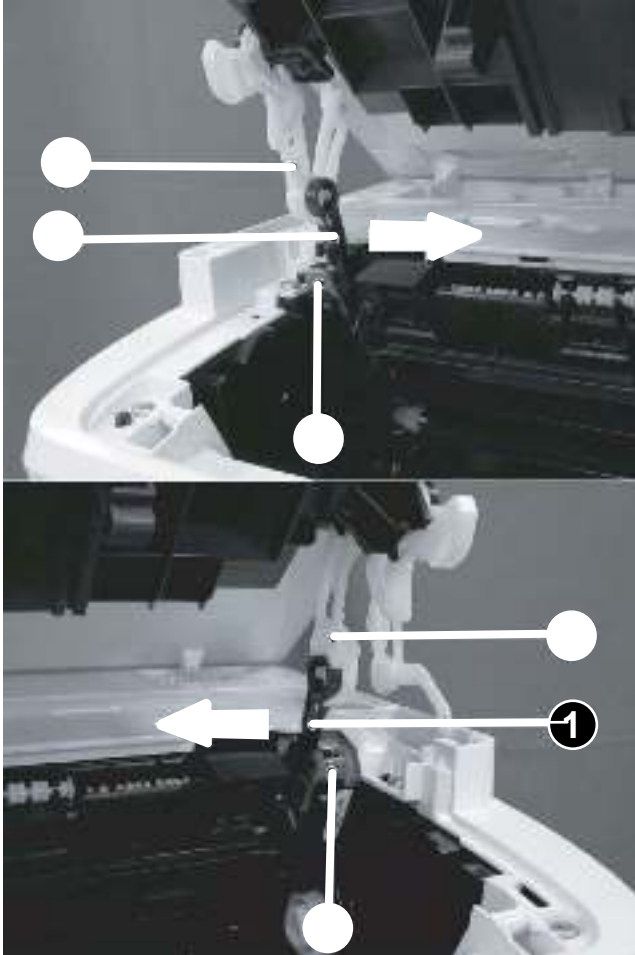


2. Before proceeding, take note of the following disassembly instructions.

When removing the link arm (callout 2) from the pressure release lever (callout 1), the pressure plate (callout 3) might be deformed if the pressure release lever moves in the direction shown below.

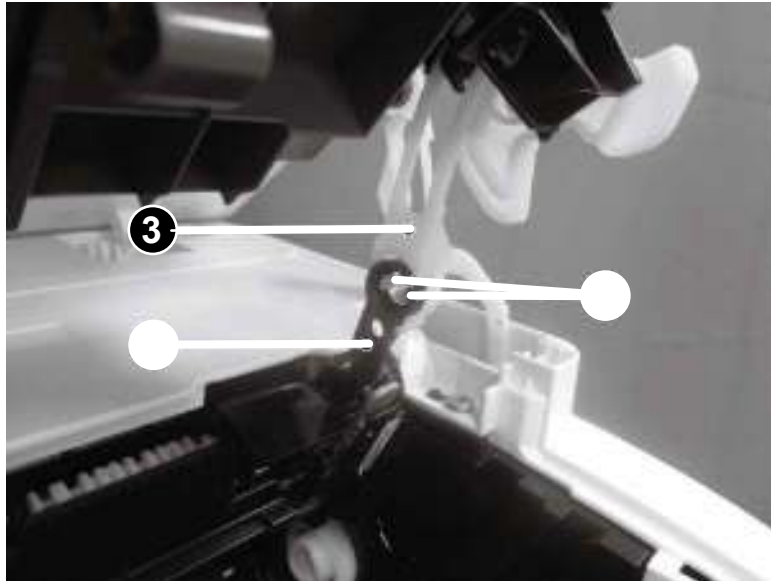
 **CAUTION:** Do not deform the pressure plate.

Figure 1-159 Special disassembly instructions



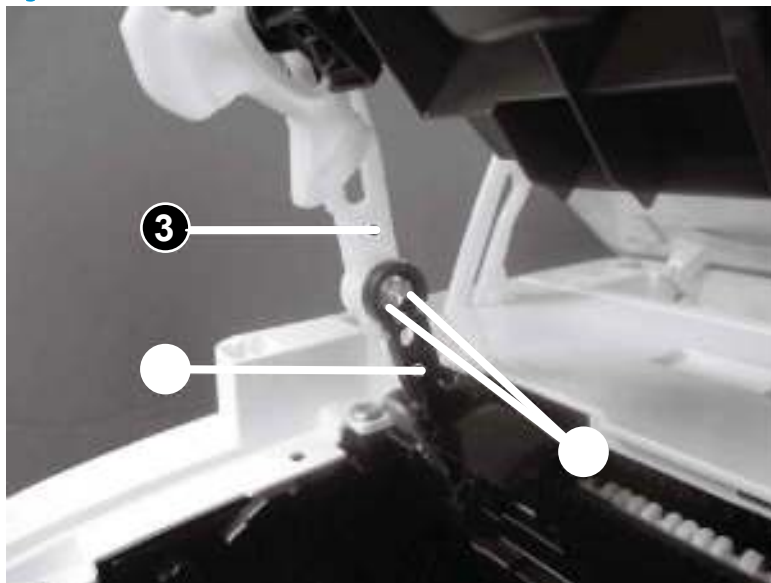
3. Open the image scanner, release two tabs (callout 1), remove one link arm (callout 3) from the pressure release lever (callout 2).

Figure 1-160 Remove the link arm



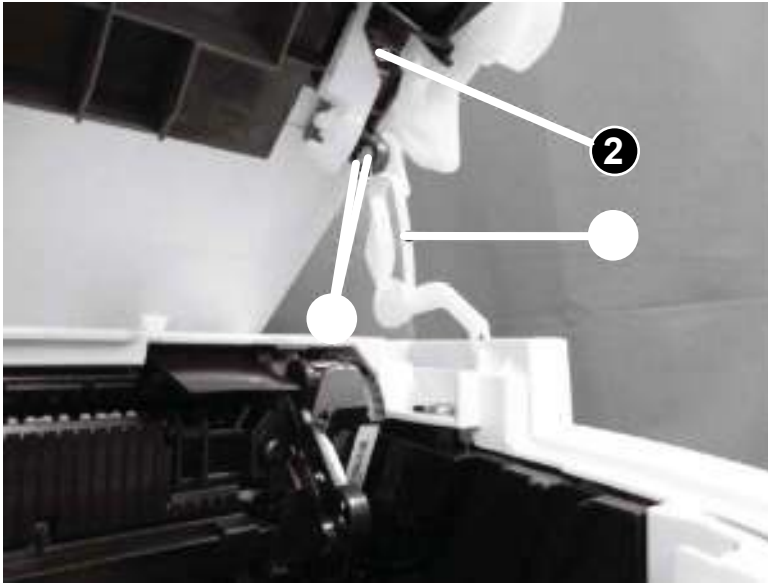
4. Release two tabs (callout 1), and then remove one link arm (callout 3) from the pressure release lever (callout 2).

Figure 1-161 Remove the link arm



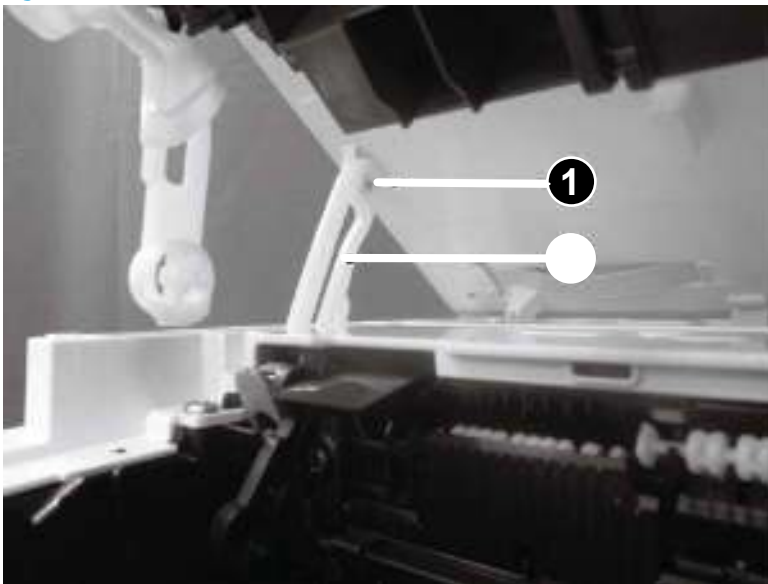
5. Release two tabs (callout 1), and then remove one link arm (callout 3) from the cartridge door (callout 2).

Figure 1-162 Remove the link arm



6. Remove one link arm (callout 2) from the shaft (callout 1).

Figure 1-163 Remove the link arm



7. Pull two flat-flexible cables (FFCs) (callout 2) out and away from the top cover (callout 1), and then slide the image scanner (callout 3) as shown below to remove it.

CAUTION: Do not damage the FFCs.

Reinstallation tip: Reverse the removal steps to install the assembly.

Figure 1-164 Remove the image scanner

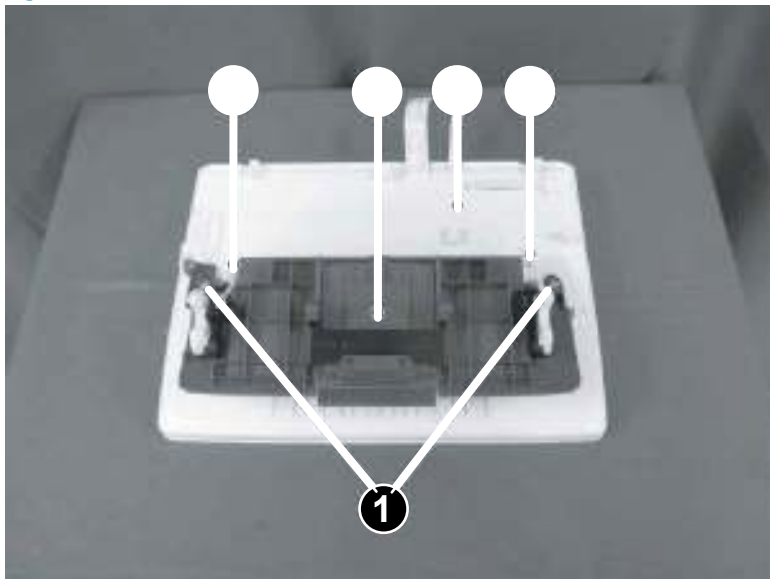


8. For a replacement image scanner, do the following:


NOTE: If the image scanner is removed to access other assemblies, skip this step.

- Remove two screws (callout 1).
- Remove the cartridge door (callout 3) (with the link arms; callout 4) from the image scanner (callout 2).

Figure 1-165 Remove the cartridge door



Step 6: Remove the top cover (MFP M28-M31)

 **NOTE:** This step is for the MFP M28-M31 printers. For all other printers, skip this step and go to [Step 8: Remove the laser scanner and FFC on page 158](#).

1. Remove two screws (M3; callout 1), remove seven screws (M4; callout 2), release one tab (callout 3), and then remove the top cover (callout 4).


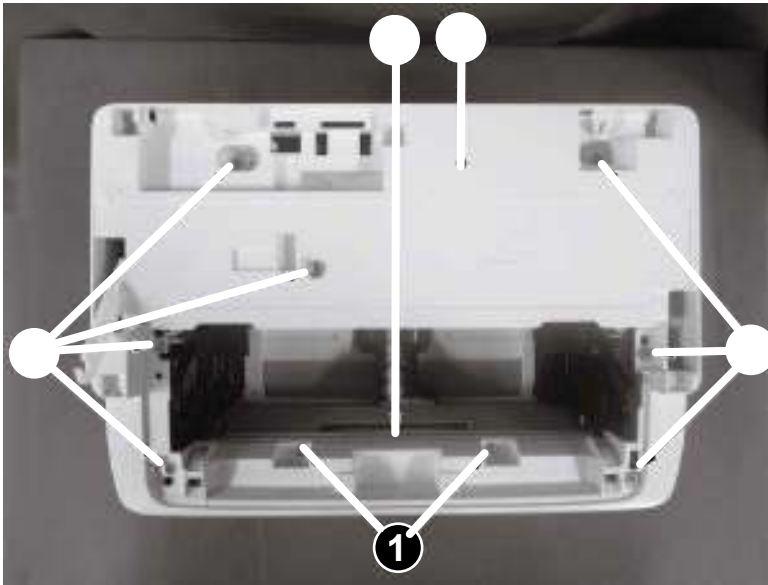

 **Reinstallation tip:** Reverse the removal steps to install the assembly.

Figure 1-166 Remove the top cover



2. Reverse the removal steps to install the assembly. Also use the following special installation instructions.

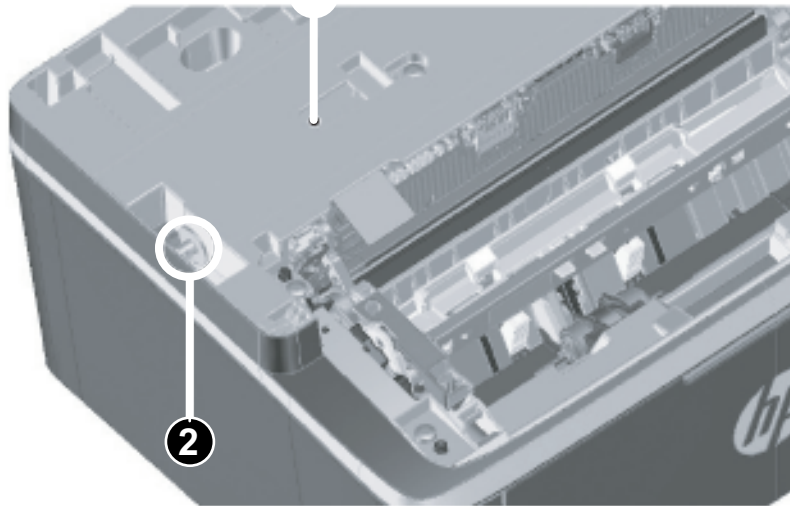
 **NOTE:** Continue to reverse the removal steps to finish installing the assembly.

 **TIP:** If the top cover is removed to access other assemblies, skip this step.


Special installation instructions: Top cover

- ▲ Remove the pad (callout 2) from the top cover (callout 1), and then install it on the replacement top cover.

Figure 1-167 Install the pad

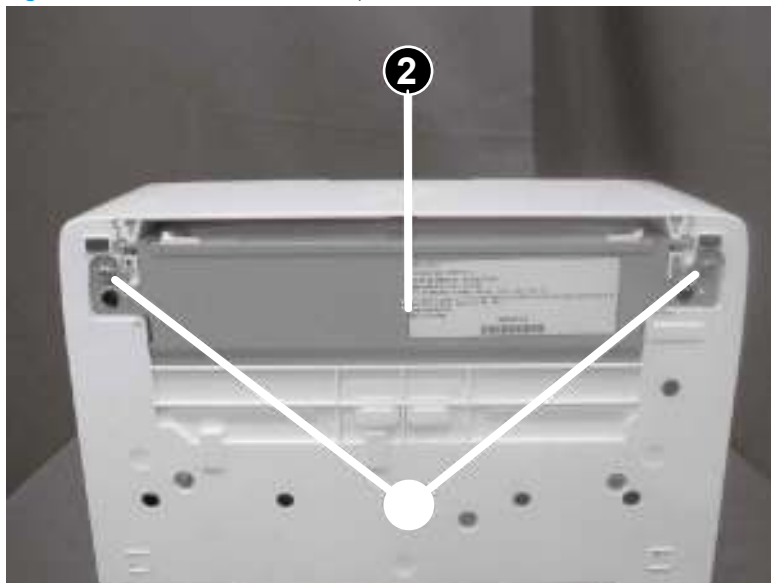


Step 7: Remove the lower cover (MFP M28-M31)

 **NOTE:** This step is for the MFP M28-M31 printers. For all other printers, skip this step and go to [Step 8: Remove the laser scanner and FFC on page 158](#).

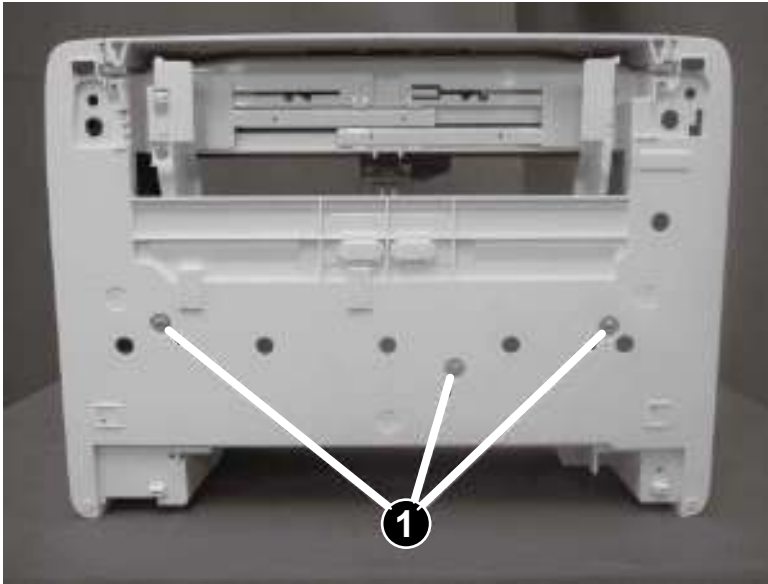
1. Position the printer rear side down, remove two screws (callout 1), and then remove the lower plate (callout 2)

Figure 1-168 Remove the lower plate



2. Remove three screws (callout 1).

Figure 1-169 Remove three screws



3. Remove two screws (callout 1), and then remove the lower cover (callout 2).


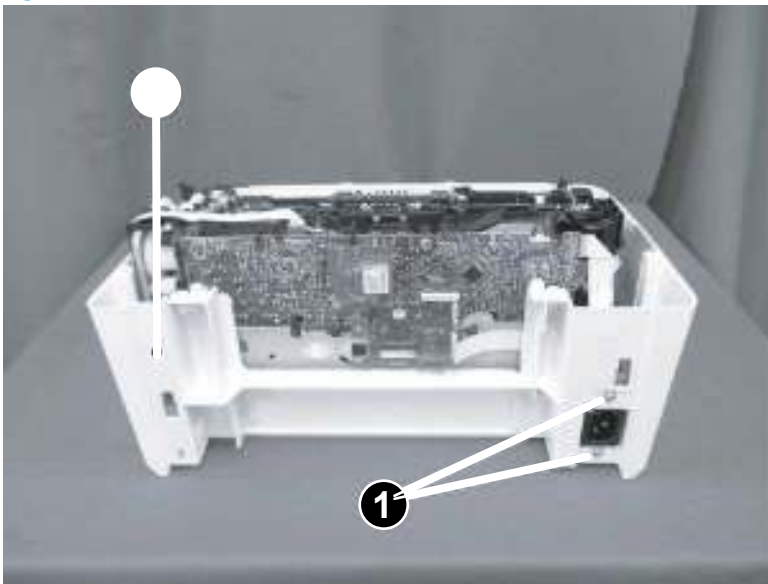
 **Reinstallation tip:** Reverse the removal steps to install the assembly.

Figure 1-170 Remove the lower cover



Step 8: Remove the laser scanner and FFC

- ▲ Do the following:
 - a. Disconnect one connector (callout 1).
 - b. Disconnect one flat flexible cable (FFC) (callout 2).
 - c. Remove one screw (callout 3).

- d. Remove the shield plate (callout 4).
- e. Remove three screws (callout 5).
- f. Remove the laser scanner assembly (callout 6).
- g. **Optional step:** Remove the laser scanner FFC (callout 7) if needed.


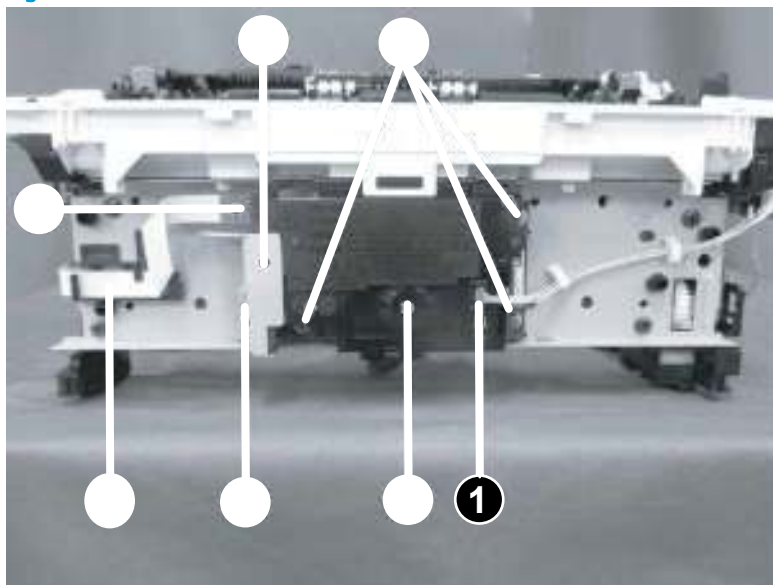
 **Reinstallation tip:** Reverse the removal steps to install the assembly.

Figure 1-171 Remove the laser scanner and FFC



Step 9: Unpack the replacement assembly

1. Dispose of the defective part.

 **NOTE:** HP recommends responsible disposal of the defective part.

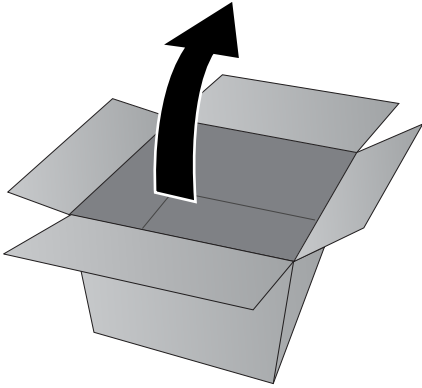
www.hp.com/recycle



2. Unpack the replacement part from the packaging.

⚠ CAUTION: If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands or before touching rollers or pads.

📋 IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.



Remove and replacement: Formatter (M14-M17)

- [Introduction](#)
- [Step 1: Remove the cartridge door \(M14-M17\)](#)
- [Step 2: Remove the formatter cover \(M14-M17\)](#)
- [Step 3: Remove the lower cover \(M14-M17\)](#)
- [Step 4: Remove the formatter \(M14-M17\)](#)
- [Step 5: Unpack the replacement assembly](#)

Introduction

This document provides the procedures to remove and replace the formatter (M14-M17).



IMPORTANT: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Before performing service

- Turn the printer power off.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts

Formatter (M14-M17) part number	
W2G50-60001	Formatter PCA (base model; M14-M17)
W2G51-60001	Formatter PCA (wireless model; M14-M17)

Required tools

- #2 Phillips screwdriver with a magnetic tip
- Micro tip Phillips screwdriver with a magnetic tip



TIP: This type of driver is sometimes called a jeweler's screwdriver.

- Small flat blade screwdriver (optional)

After performing service

- Turn the printer power on.

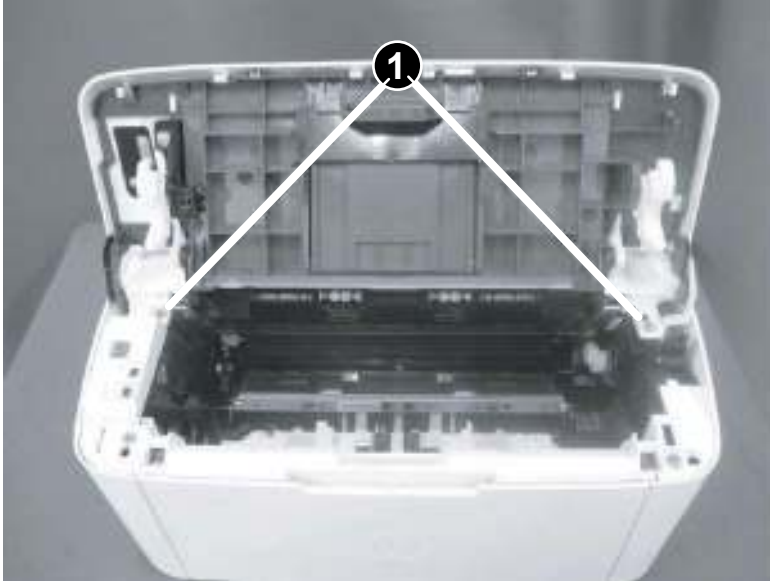
Post service test

Send a job to the printer, and then verify that print quality is acceptable.

Step 1: Remove the cartridge door (M14-M17)

1. Open the cartridge door, and then remove two screws (callout 1).

Figure 1-172 Remove two screw

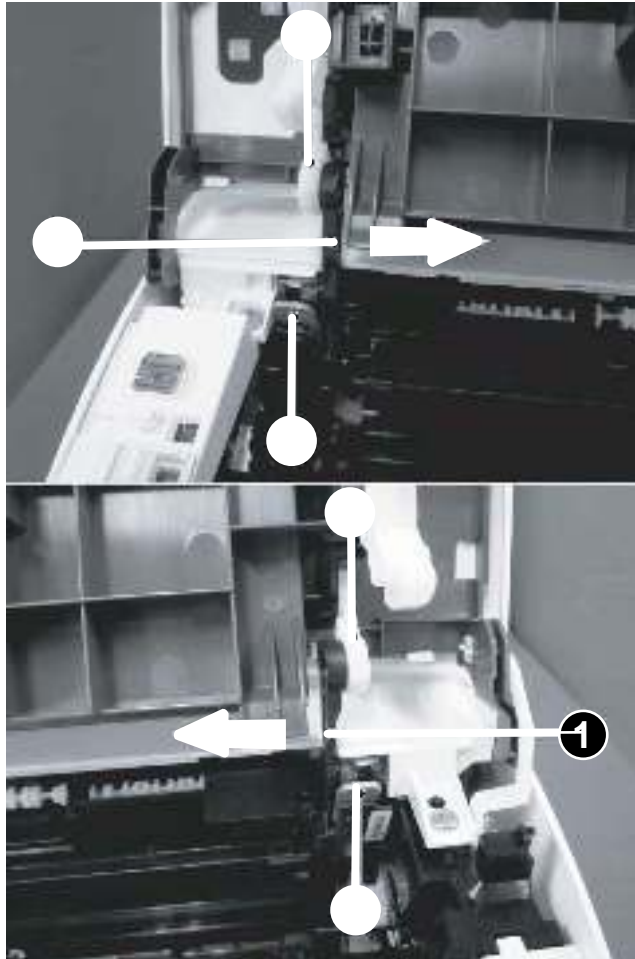


2. Before proceeding, take note of the following disassembly instructions.

When removing the link arm (callout 2) from the pressure release lever (callout 1), the pressure plate (callout 3) might be deformed if the pressure release lever moves in the direction shown below.

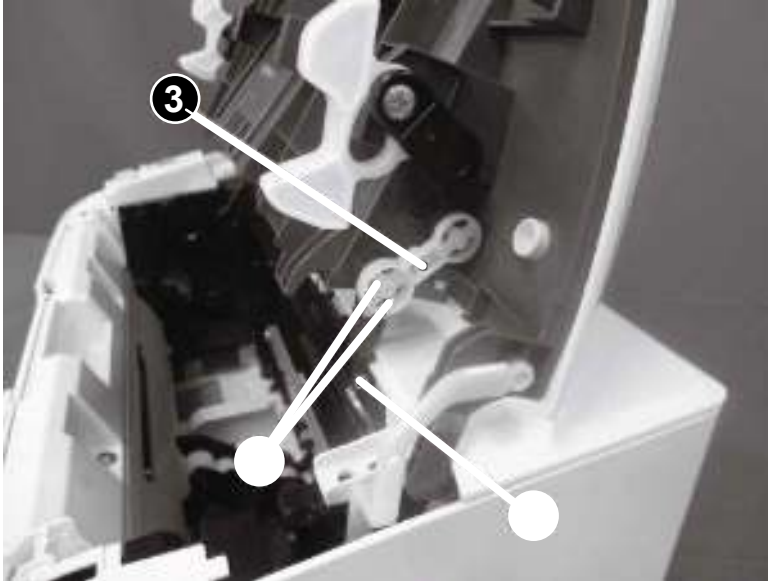
 **CAUTION:** Do not deform the pressure plate.

Figure 1-173 Special disassembly instructions



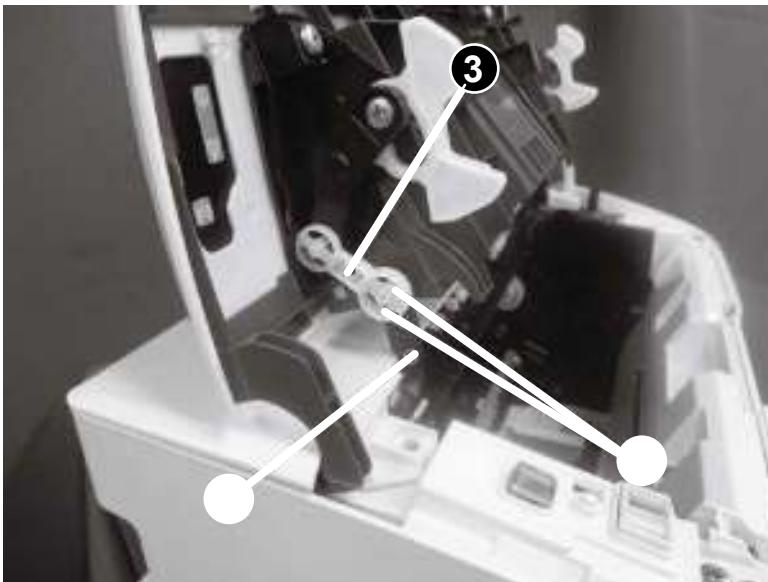
3. Release two tabs (callout 1), and then remove one link arm (callout 3) from the pressure release lever (callout 2).

Figure 1-174 Remove the link arm



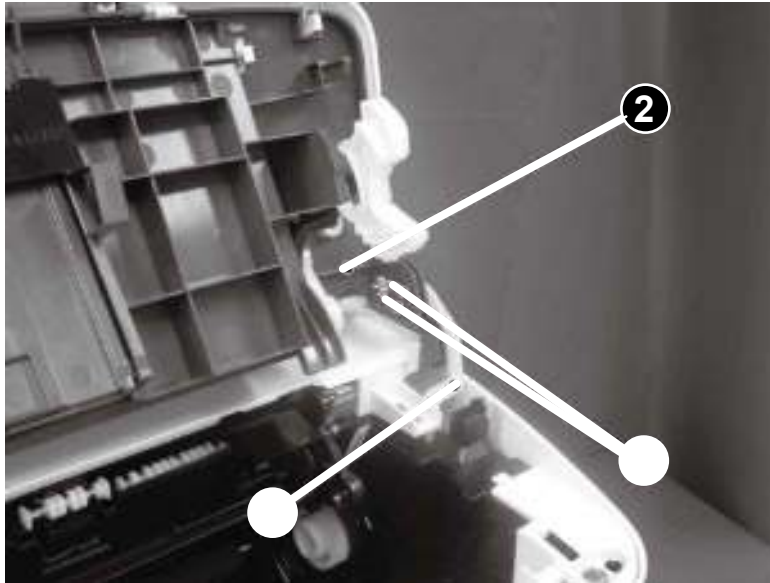
4. Release two tabs (callout 1), and then remove one link arm (callout 3) from the pressure release lever (callout 2).

Figure 1-175 Remove the link arm



5. Release two tabs (callout 1), and then remove one link arm (callout 3) from the cartridge door assembly (callout 2).

Figure 1-176 Remove the link arm



6. Release one tab (callout 1), support the cartridge door (callout 2), and then remove it.

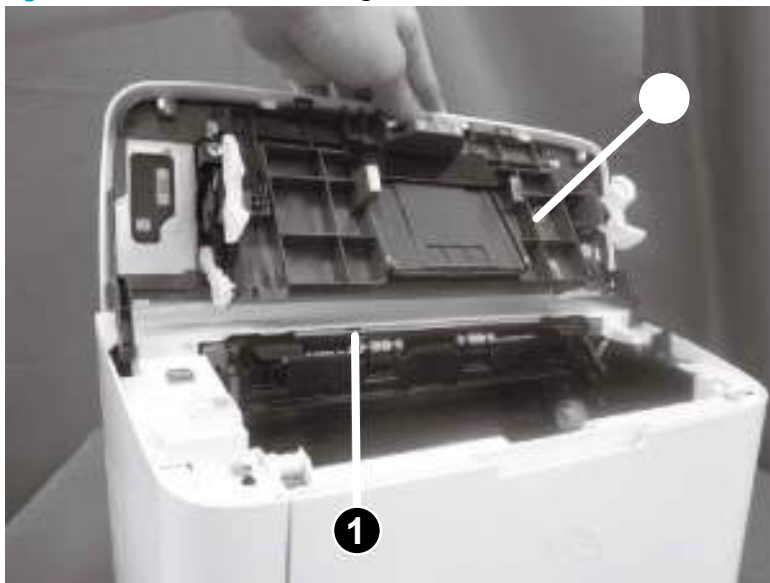


NOTE: If the cartridge door is removed to access other assembly, stop at this step.



Reinstallation tip: Reverse the removal steps to install the door.

Figure 1-177 Remove the cartridge door



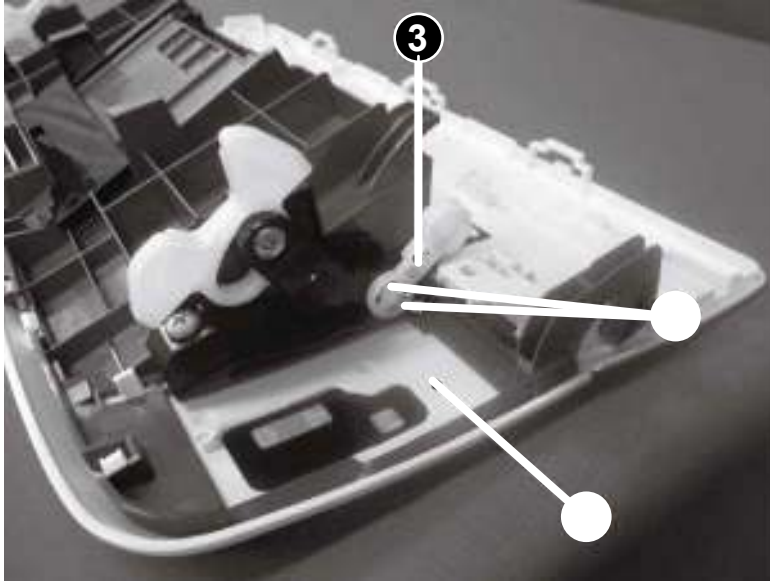
7. **Optional step:** If a replacement cartridge door is being installed, do the following:



NOTE: Install the link arms on the replacement door.

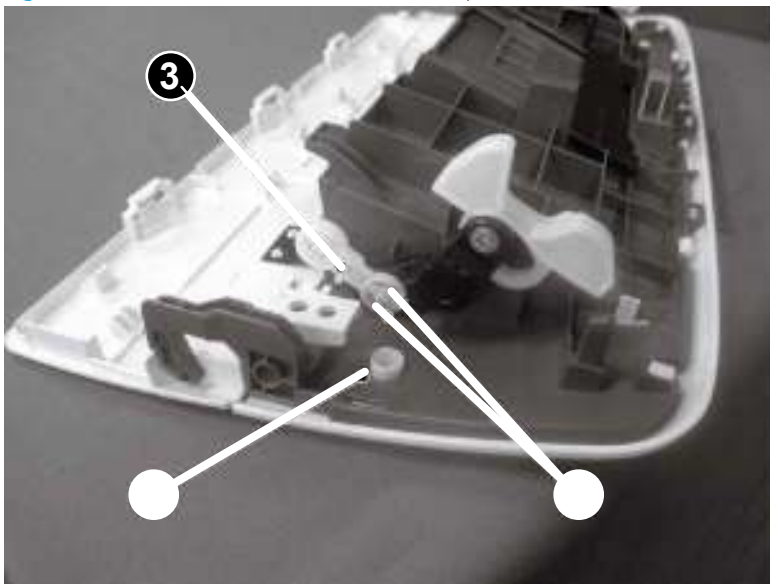
- a. Release two tabs (callout 1), and then remove the one link arm (callout 3) from the door assembly (callout 2).

Figure 1-178 Install the link arms on the replacement door



- b. Release two tabs (callout 1), and then remove the one link arm (callout 3) from the door assembly (callout 2).

Figure 1-179 Install the link arms on the replacement door



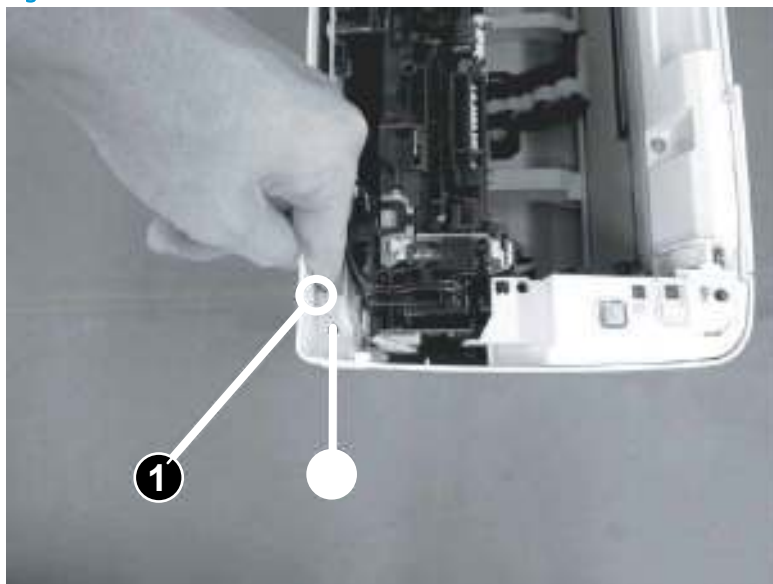
Step 2: Remove the formatter cover (M14-M17)

- ▲ Position the printer front side down.

Release one tab (callout 1), and then remove the formatter cover (callout 2).

💡 **Reinstallation tip:** Reverse the removal steps to install the assembly.

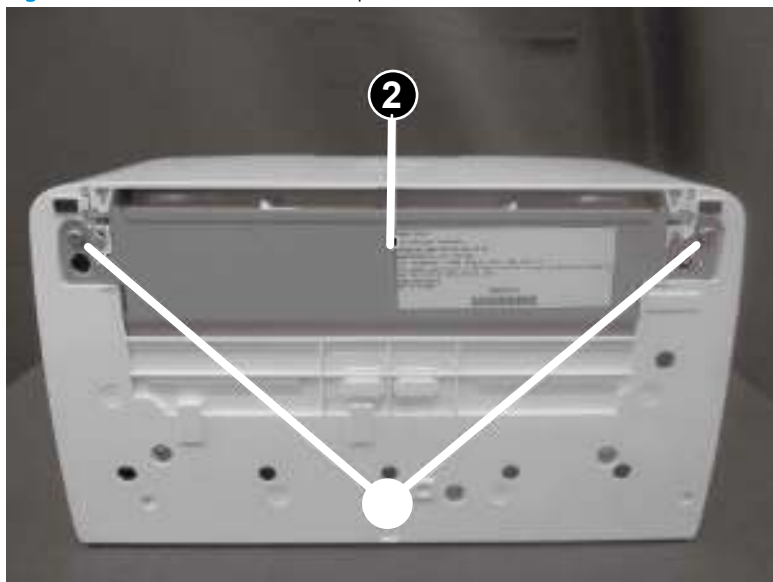
Figure 1-180 Remove the formatter cover (M14-M17)



Step 3: Remove the lower cover (M14-M17)

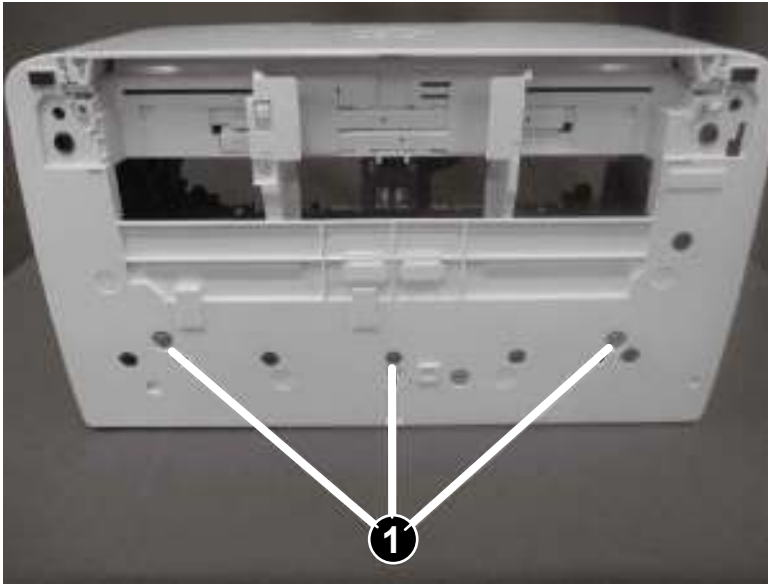
1. Position the printer rear side down, remove three screws (callout 1), and then remove the lower plate (callout 2).

Figure 1-181 Remove the lower plate



2. Remove three screws (callout 1)

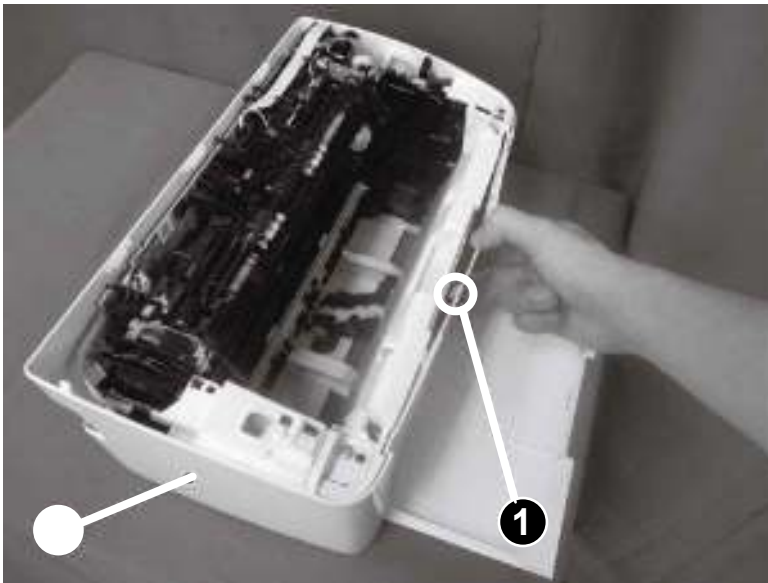
Figure 1-182 Remove the three screws



3. With the printer in the upright position, release one tab (callout 1), and then remove the lower cover (callout 2).

 **Reinstallation tip:** Reverse the removal steps to install the assembly.

Figure 1-183 Remove the lower cover



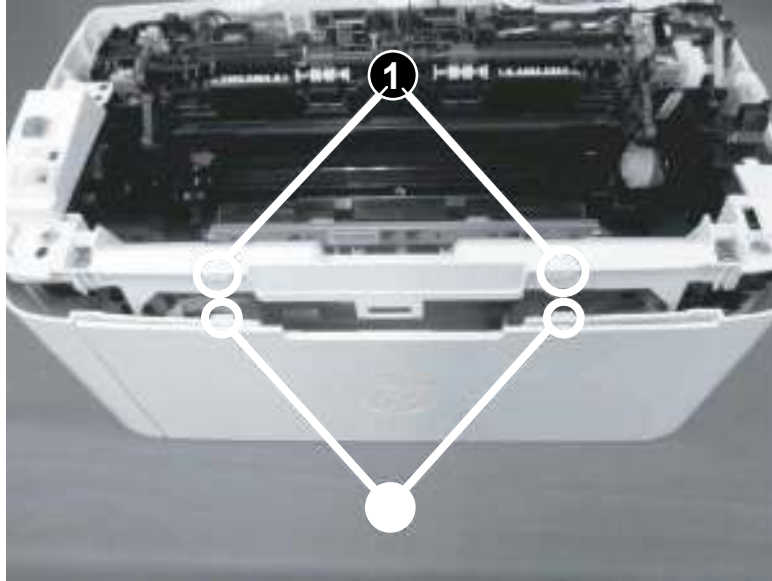
4. Reverse the removal steps to install the assembly. Also use the following special installation instructions.

 **NOTE:** Continue to reverse the removal steps to finish installing the assembly.

Special installation instructions: Lower cover

- ▲ Make sure to fit two ribs (callout 1) on the printer into the grooves (callout 2) in the lower cover.

Figure 1-184 Fit two ribs on the printer into the grooves (lower cover install)



Step 4: Remove the formatter (M14-M17)

▲ Do the following:

- a. Remove two flat flexible cables (FFCs) (callout 1).

💡 **TIP:** It might be easier to use a small flat blade screwdriver to release the large FFC.

- b. Remove one screw (callout 2).

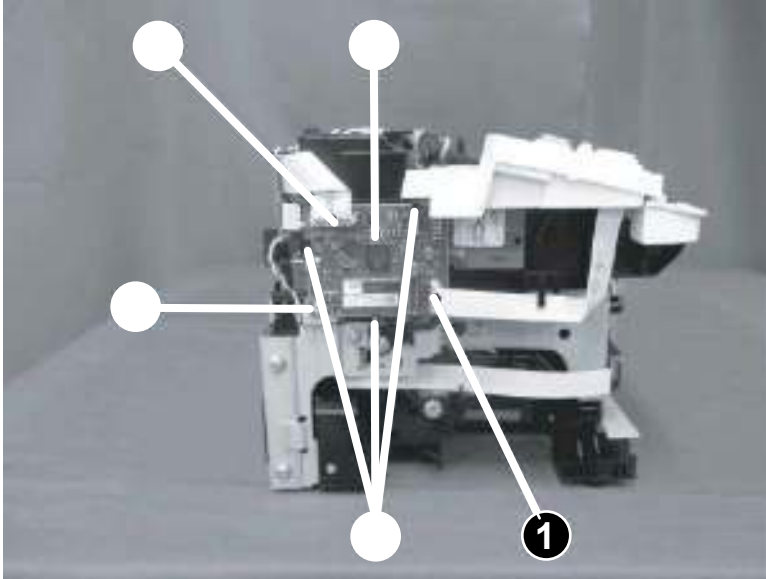
📝 **NOTE:** Use a micro tip screwdriver to remove this screw.

- c. Release three tabs (callout 3).

- d. Remove the formatter (callout 4).

💡 **Reinstallation tip:** Reverse the removal steps to install the assembly.

Figure 1-185 Remove the formatter



Step 5: Unpack the replacement assembly

1. Dispose of the defective part.



NOTE: HP recommends responsible disposal of the defective part.

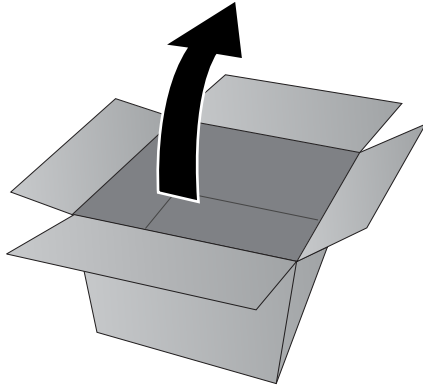
www.hp.com/recycle



2. Unpack the replacement part from the packaging.

⚠ CAUTION: If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands or before touching rollers or pads.

📋 IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.



Remove and replacement: Formatter (MFP M28-M31)

- [Introduction](#)
- [Step 1: Remove the formatter cover \(MFP M28-M31\)](#)
- [Step 2: Remove the formatter \(MFP M28-M31\)](#)
- [Step 3: Unpack the replacement assembly](#)

Introduction

This document provides the procedures to remove and replace the formatter (MFP M28-M31).



IMPORTANT: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Before performing service

- Turn the printer power off.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts

Formatter (MFP M28-M31) part number	
W2G54-60001	Formatter PCA (base model; MFP M28-M31)
W2G55-60001	Formatter PCA (wireless model; MFP M28-M31)

Required tools

- #2 Phillips screwdriver with a magnetic tip

After performing service

- Turn the printer power on.

Post service test

Send a job to the printer, and then verify that print quality is acceptable.

Step 1: Remove the formatter cover (MFP M28-M31)

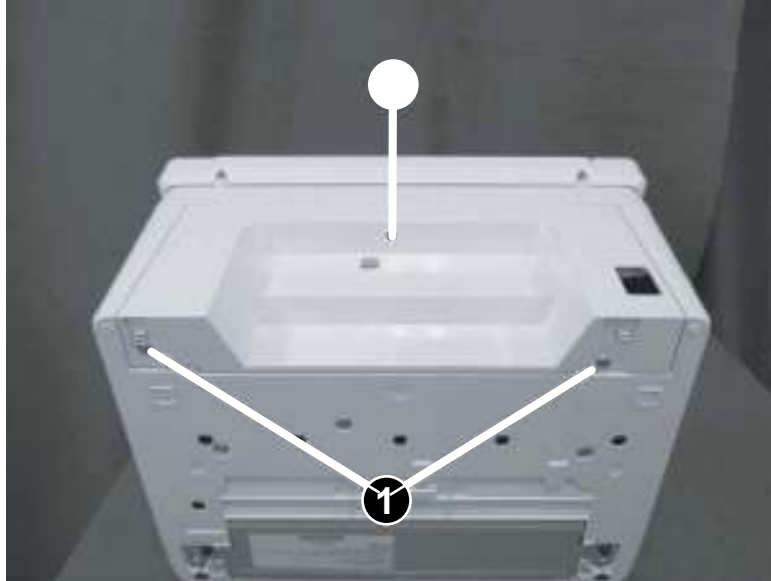
- ▲ Position the printer front side down.

Remove two screws (callout 1), and then remove the formatter cover (callout 2).



Reinstallation tip: Reverse the removal steps to install the assembly.

Figure 1-186 Remove the formatter cover (MFP M28-M31)



Step 2: Remove the formatter (MFP M28-M31)

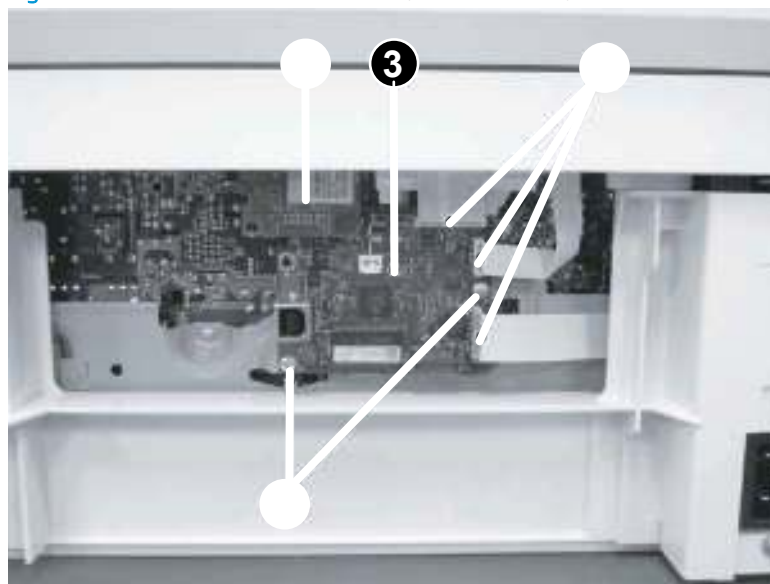
▲ Do the following:

- a. Disconnect three flat flexible cables (FFCs) (callout 1).
- b. Remove two screws (callout 2).
- c. Remove the formatter (callout 3).

💡 **Reinstallation tip:** After removing the formatter, remove the wireless PCA (callout 4), and then install it on the replacement formatter.

Reverse the removal steps to install the assembly.

Figure 1-187 Remove the formatter (MFP M28-M31)



Step 3: Unpack the replacement assembly


1. Dispose of the defective part.

 **NOTE:** HP recommends responsible disposal of the defective part.

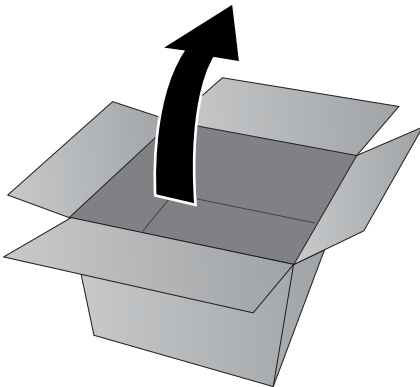
www.hp.com/recycle



2. Unpack the replacement part from the packaging.

 **CAUTION:** If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands or before touching rollers or pads.

 **IMPORTANT:** Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.



Remove and replacement: Fuser (M14-M17)

- [Introduction](#)
- [Step 1: Remove the cartridge door \(M14-M17\)](#)
- [Step 2: Remove the formatter cover \(M14-M17\)](#)
- [Step 3: Remove the lower cover \(M14-M17\)](#)
- [Step 4: Remove the formatter \(M14-M17\)](#)
- [Step 5: Remove the fuser \(M14-M17\)](#)
- [Step 6: Unpack the replacement assembly](#)

Introduction

This document provides the procedures to remove and replace the fuser (M14-M17).



IMPORTANT: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Before performing service

- Turn the printer power off.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts

Fuser (M14-M17) part number	
RM2-2131-000CN	Fuser (110-127V; M14-M17)
RM2-2107-000CN	Fuser (220-240V; M14-M17)

Required tools

- #2 Phillips screwdriver with a magnetic tip
- Small flat-blade screw driver (optional)

After performing service

- Turn the printer power on.

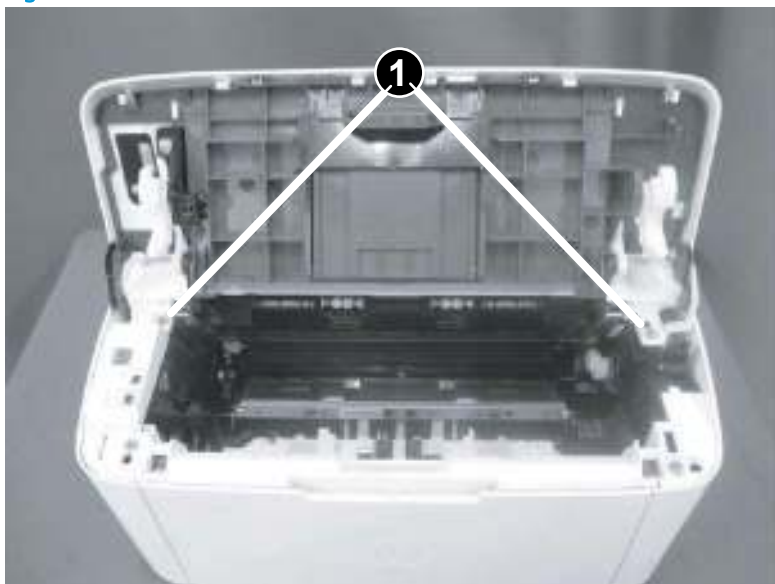
Post service test

Send a job to the printer, and then verify that print quality is acceptable.

Step 1: Remove the cartridge door (M14-M17)

1. Open the cartridge door, and then remove two screws (callout 1).

Figure 1-188 Remove two screw

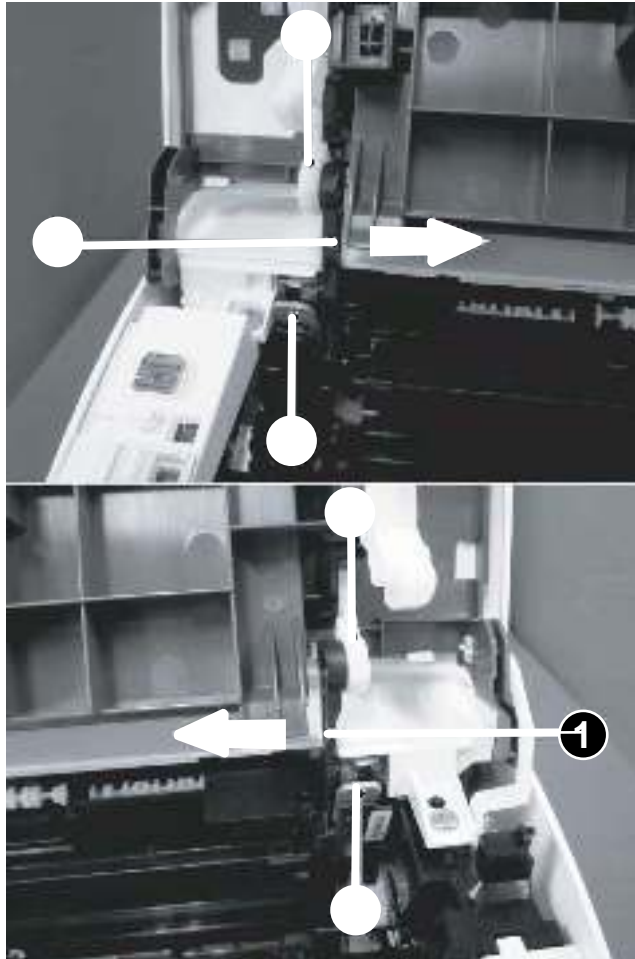


2. Before proceeding, take note of the following disassembly instructions.

When removing the link arm (callout 2) from the pressure release lever (callout 1), the pressure plate (callout 3) might be deformed if the pressure release lever moves in the direction shown below.

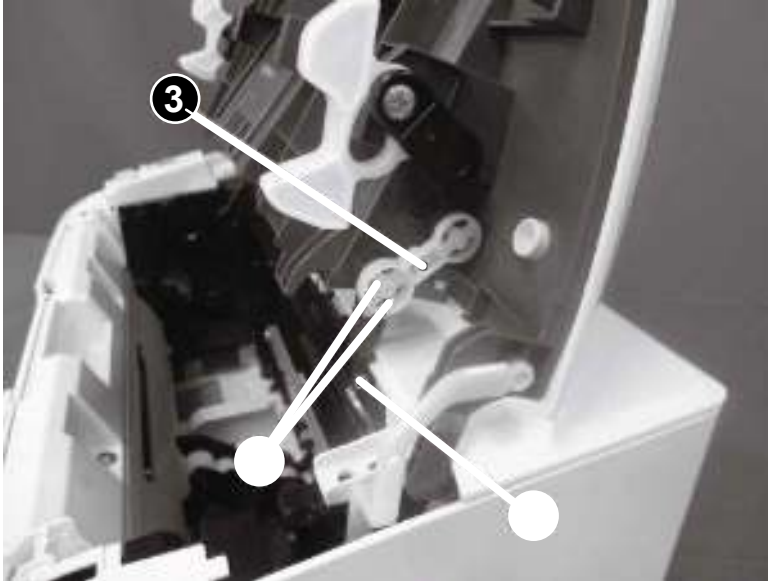
CAUTION: Do not deform the pressure plate.

Figure 1-189 Special disassembly instructions



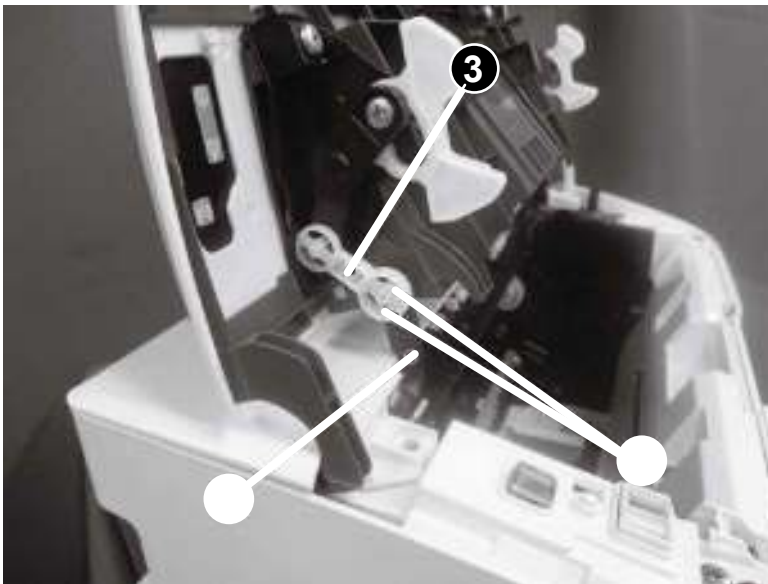
3. Release two tabs (callout 1), and then remove one link arm (callout 3) from the pressure release lever (callout 2).

Figure 1-190 Remove the link arm



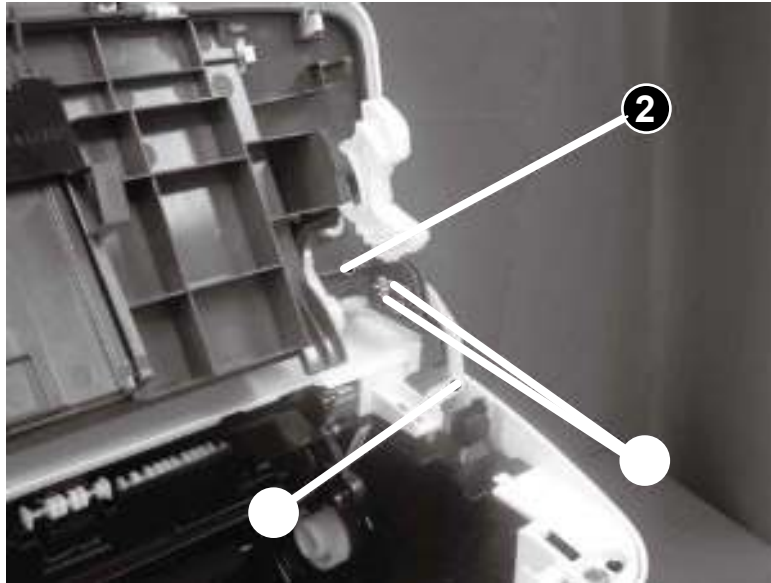
4. Release two tabs (callout 1), and then remove one link arm (callout 3) from the pressure release lever (callout 2).

Figure 1-191 Remove the link arm



5. Release two tabs (callout 1), and then remove one link arm (callout 3) from the cartridge door assembly (callout 2).

Figure 1-192 Remove the link arm



6. Release one tab (callout 1), support the cartridge door (callout 2), and then remove it.

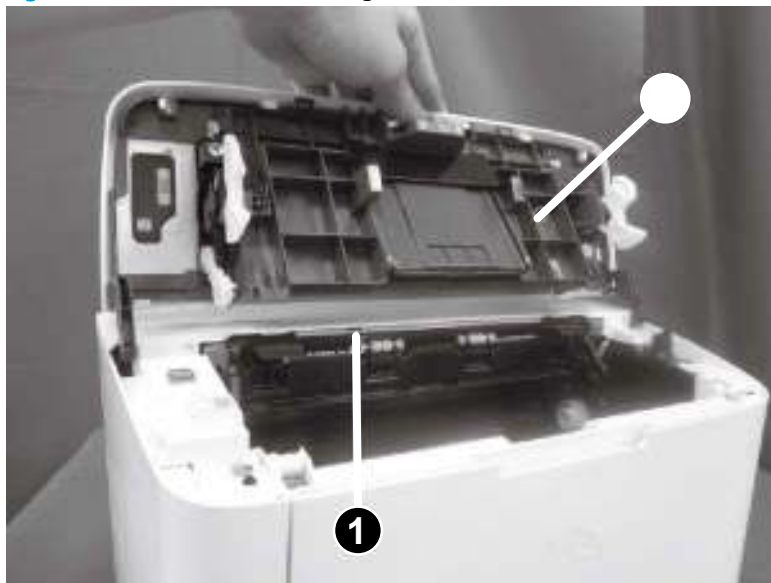


NOTE: If the cartridge door is removed to access other assembly, stop at this step.



Reinstallation tip: Reverse the removal steps to install the door.

Figure 1-193 Remove the cartridge door



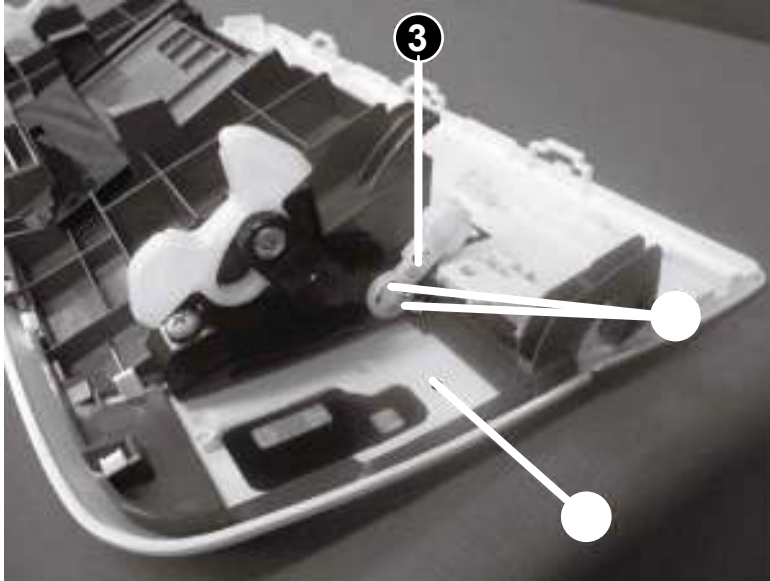
7. **Optional step:** If a replacement cartridge door is being installed, do the following:



NOTE: Install the link arms on the replacement door.

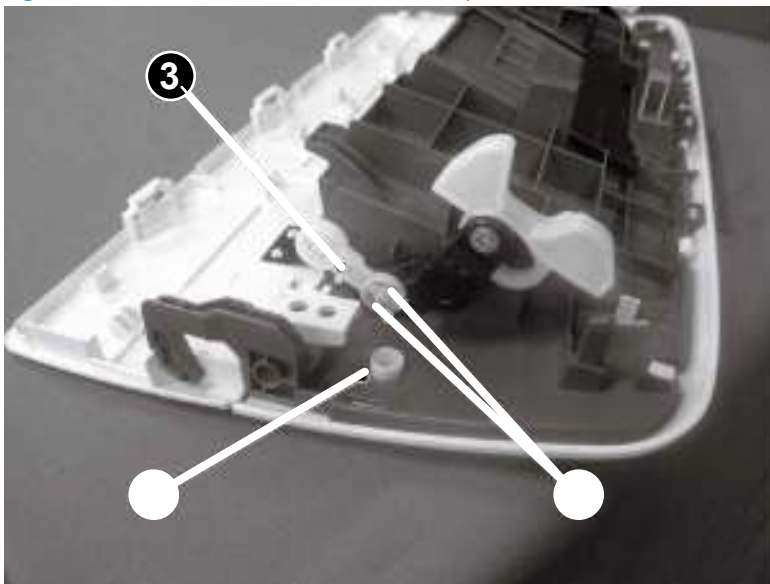
- a. Release two tabs (callout 1), and then remove the one link arm (callout 3) from the door assembly (callout 2).

Figure 1-194 Install the link arms on the replacement door



- b. Release two tabs (callout 1), and then remove the one link arm (callout 3) from the door assembly (callout 2).

Figure 1-195 Install the link arms on the replacement door



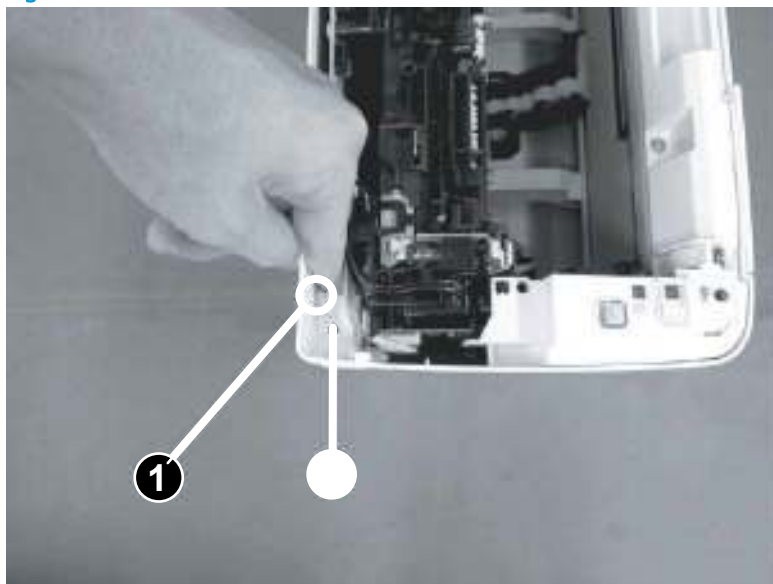
Step 2: Remove the formatter cover (M14-M17)

- ▲ Position the printer front side down.

Release one tab (callout 1), and then remove the formatter cover (callout 2).

💡 **Reinstallation tip:** Reverse the removal steps to install the assembly.

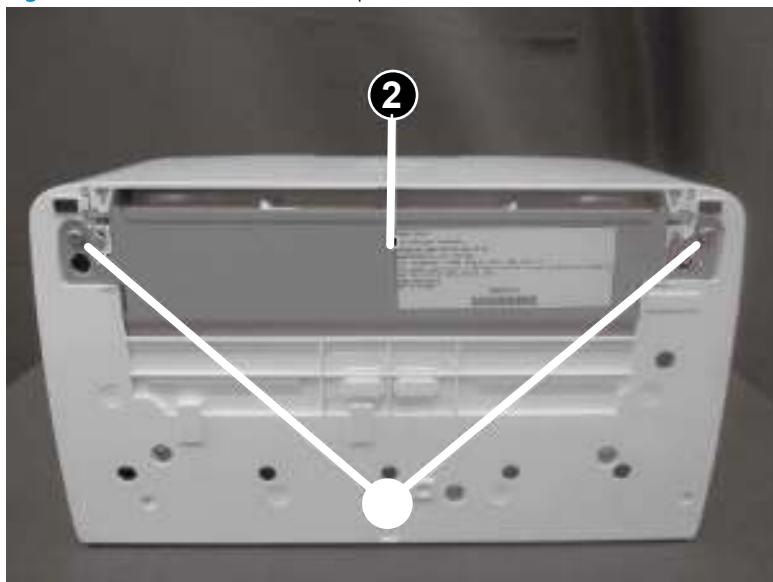
Figure 1-196 Remove the formatter cover (M14-M17)



Step 3: Remove the lower cover (M14-M17)

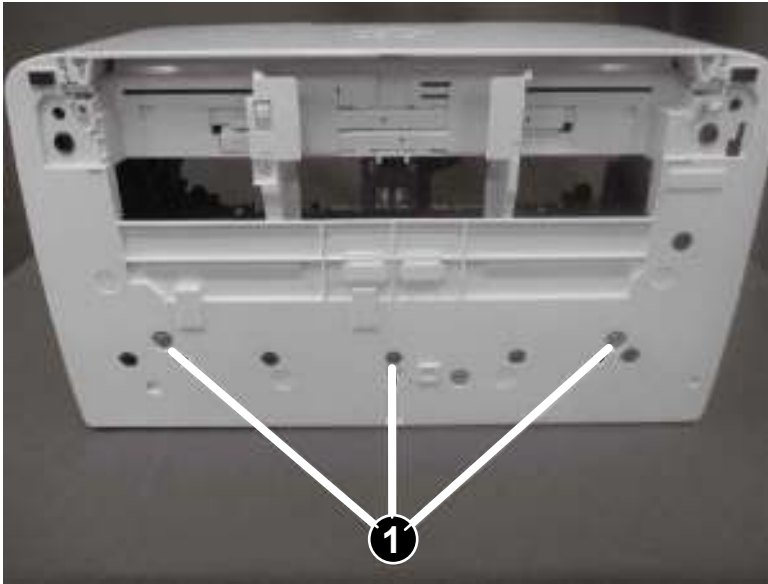
1. Position the printer rear side down, remove three screws (callout 1), and then remove the lower plate (callout 2).

Figure 1-197 Remove the lower plate



2. Remove three screws (callout 1)

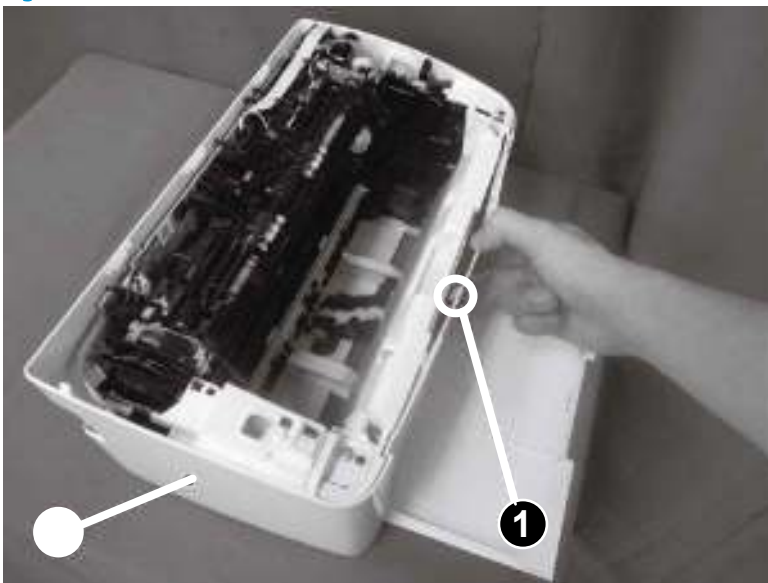
Figure 1-198 Remove the three screws



3. With the printer in the upright position, release one tab (callout 1), and then remove the lower cover (callout 2).

 **Reinstallation tip:** Reverse the removal steps to install the assembly.

Figure 1-199 Remove the lower cover



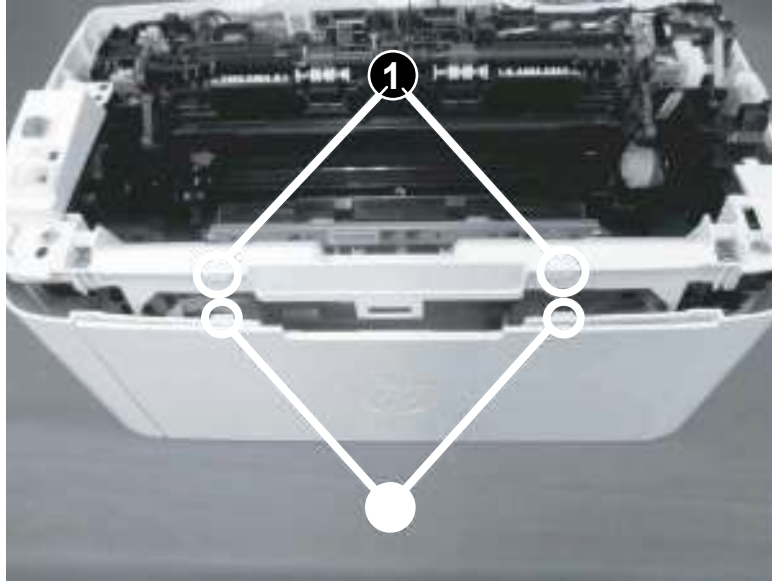
4. Reverse the removal steps to install the assembly. Also use the following special installation instructions.

 **NOTE:** Continue to reverse the removal steps to finish installing the assembly.

Special installation instructions: Lower cover

- ▲ Make sure to fit two ribs (callout 1) on the printer into the grooves (callout 2) in the lower cover.

Figure 1-200 Fit two ribs on the printer into the grooves (lower cover install)



Step 4: Remove the formatter (M14-M17)

▲ Do the following:

- a. Remove two flat flexible cables (FFCs) (callout 1).

💡 **TIP:** It might be easier to use a small flat blade screwdriver to release the large FFC.

- b. Remove one screw (callout 2).

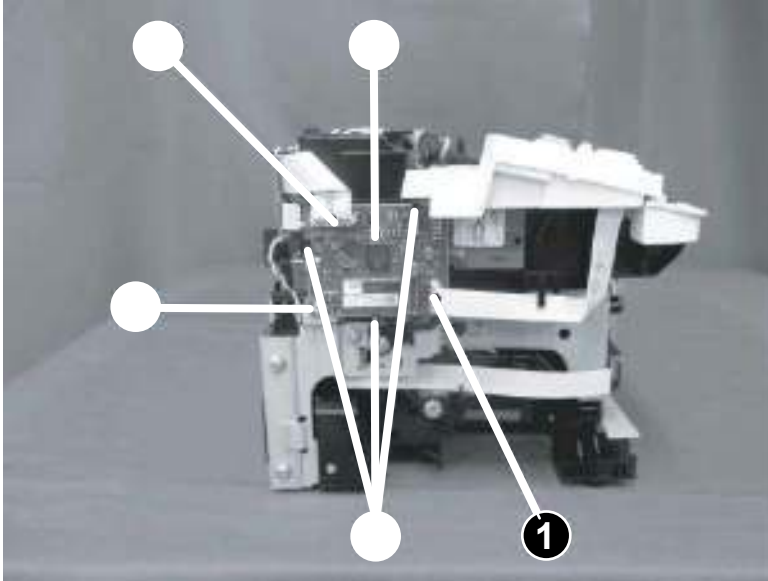
📝 **NOTE:** Use a micro tip screwdriver to remove this screw.

- c. Release three tabs (callout 3).

- d. Remove the formatter (callout 4).

💡 **Reinstallation tip:** Reverse the removal steps to install the assembly.

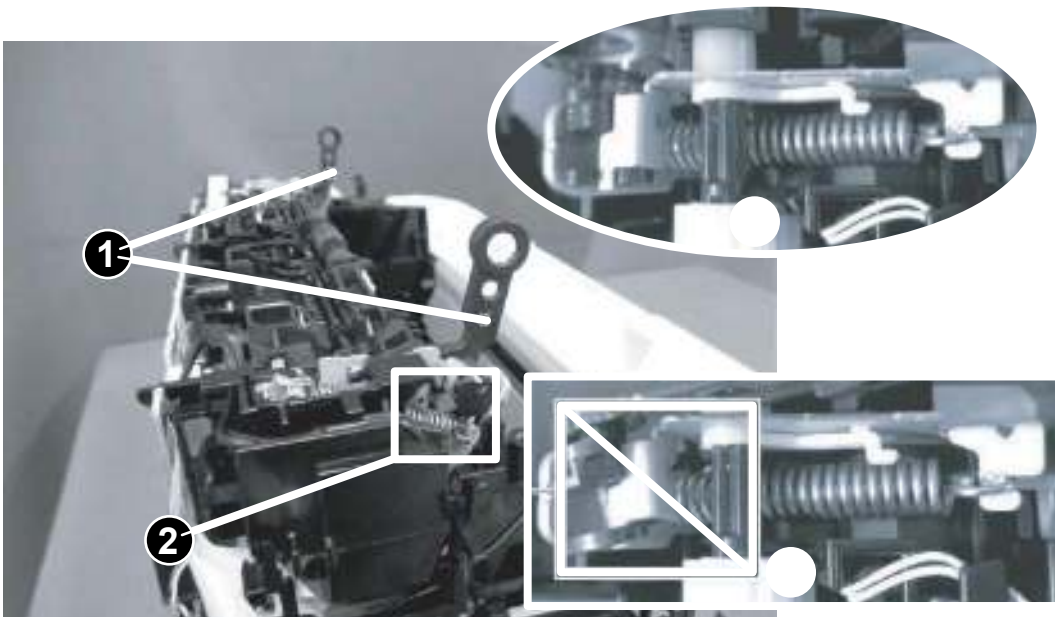
Figure 1-201 Remove the formatter



Step 5: Remove the fuser (M14-M17)

1. When removing the fuser do not rotate the pressure release levers (callout 1) too far or the side plates (callout 2; left side shown) can be deformed.
 - **Callout 3:** Correct pressure lever rotation and side plate position.
 - **Callout 4:** Incorrect pressure lever rotation and side plate position.

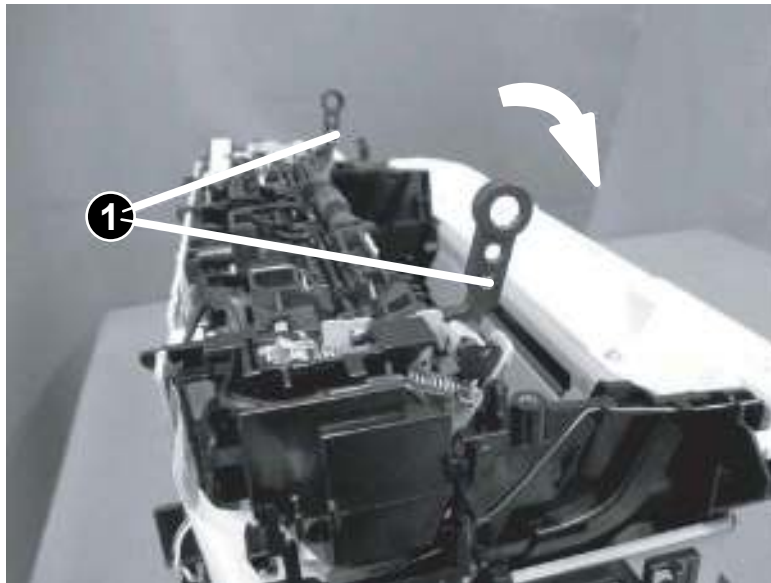
Figure 1-202 Pressure release lever



2. Rotate the pressure release levers (callout 1) (in the direction shown below) until they hang loose.

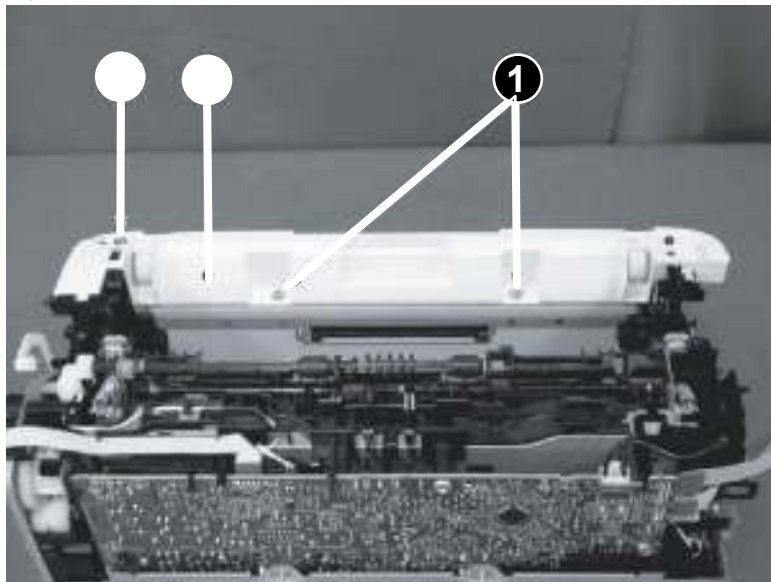
CAUTION: Do not damage the side plates when rotating the pressure release levers.

Figure 1-203 Rotate the pressure release levers



3. Do the following:
 - a. Remove two screws (M3; callout 1).
 - b. Remove one screw (M4; callout 2).
 - c. Remove the inner cover (callout 3).

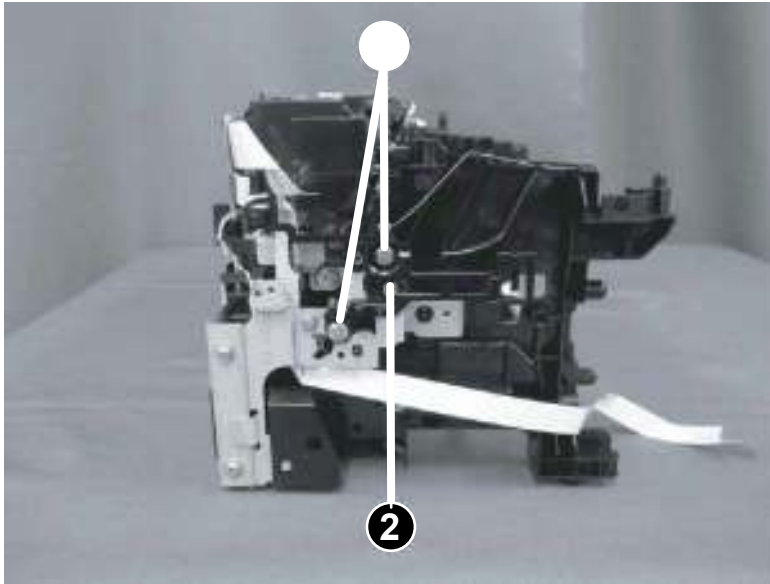
Figure 1-204 Remove the inner cover



4. Do the following:
 - a. Remove two screws (callout 1).

- b. Remove the cable guide (callout 2).

Figure 1-205 Remove the cable guide



- 5. Release one spring (callout 2) from the plate (callout 1), remove three screws (callout 3), and then remove the plate (callout 1).


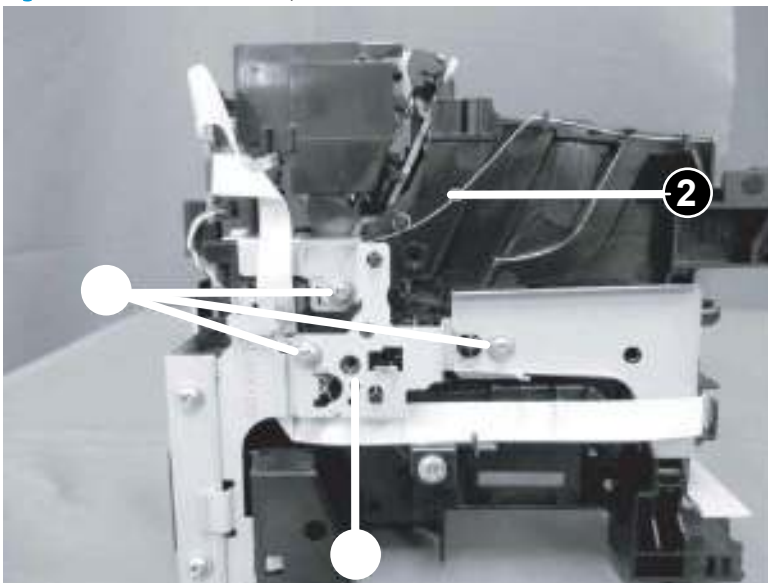
 **Reinstallation tip:** To reinstall the spring, see [Special installation instructions: Fuser \(M14-M17\) on page 190](#).

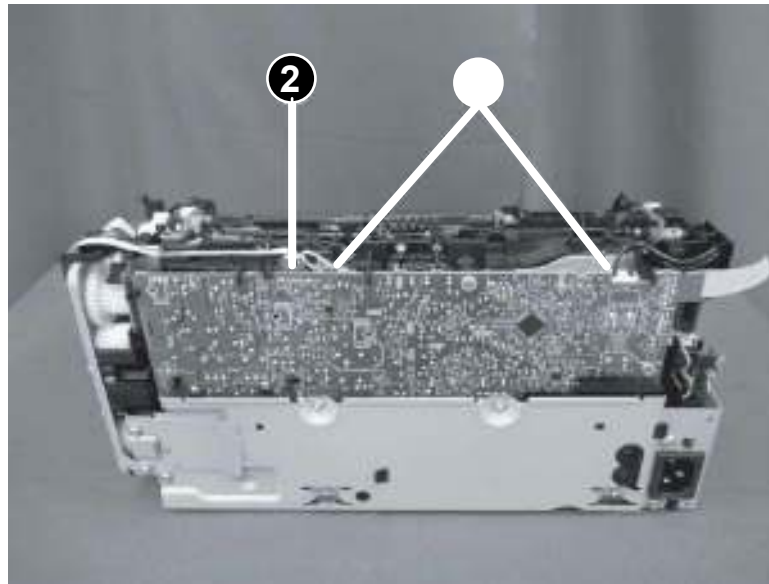
Figure 1-206 Remove the plate



- 6. Do the following:
 - a. Disconnect two connectors (callout 1).

- b. Remove one FFC (callout 2).

Figure 1-207 Disconnect two connectors



7. Release the FFC (callout 2) from the guide (callout 1), and then unhook one spring (callout 3).


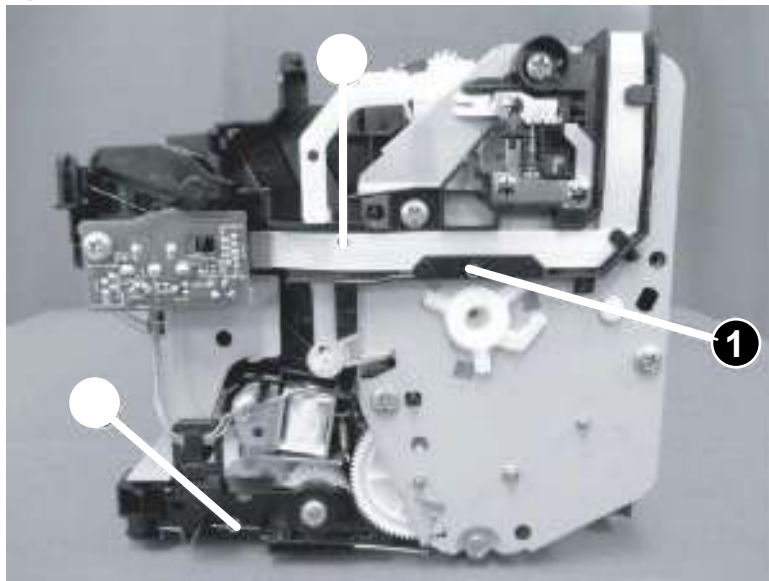
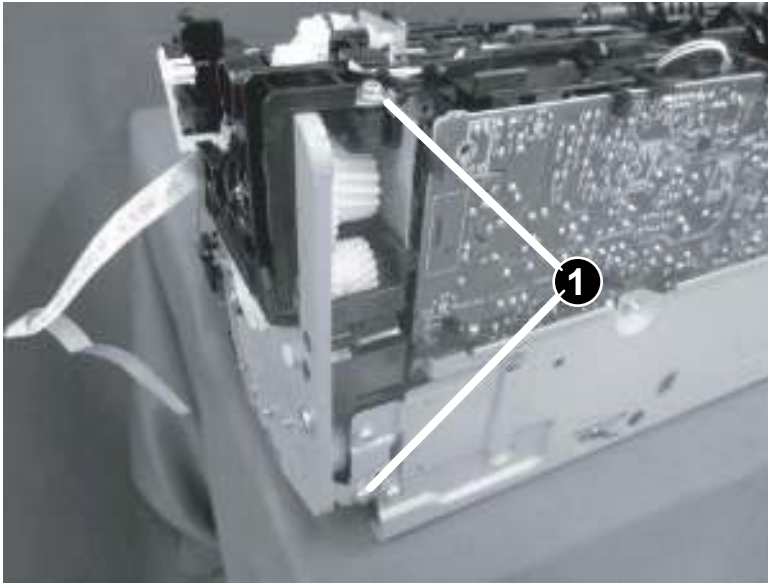
 **Reinstallation tip:** To reinstall the spring, see [Special installation instructions: Fuser \(M14-M17\)](#) on page 190.

Figure 1-208 Release the FFC and spring



8. Remove two screws (callout 1).

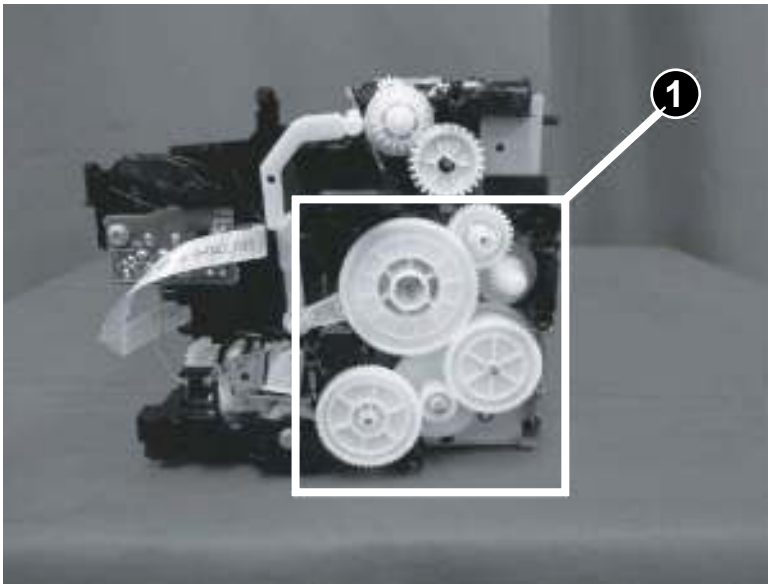
Figure 1-209 Remove two screws



9. Before proceeding, take note of the following disassembly instructions:

At the right side of the printer, the gears (callout 1) and springs (callout 1) are held in place by a plate (shown removed). Since they are not captive, be careful when removing the plate, or the gears and springs might fall off the printer.

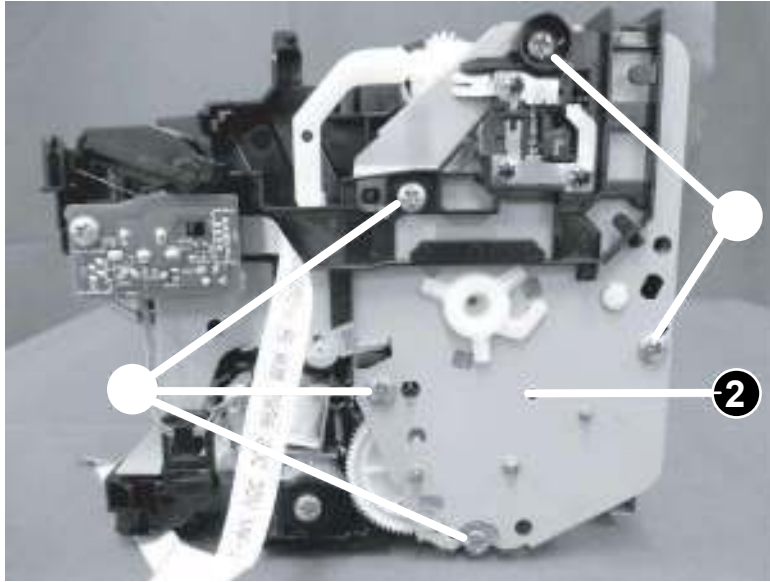
Figure 1-210 Right side gears and springs



10. Remove five screws (callout 1), and then remove the plate (callout 2).

CAUTION: The gears and springs behind the plate are not captive.

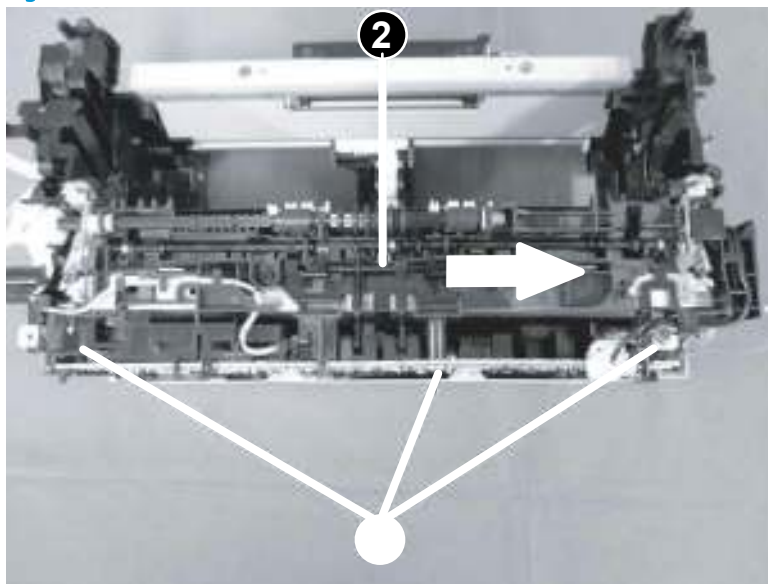
Figure 1-211 Remove the plate



11. Do the following:
- Remove three screws (callout 1).
 - Lift up the fuser (callout 2).
 - Slide the fuser (callout 2) as shown below to remove it.

Reinstallation tip: Reverse the removal steps to install the assembly. Also see [Special installation instructions: Fuser \(M14-M17\) on page 190](#).

Figure 1-212 Remove the fuser

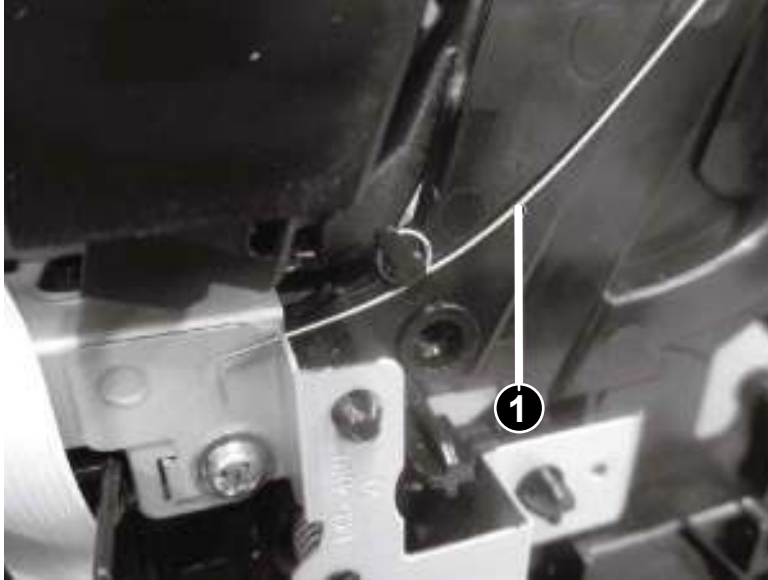


12. Reverse the removal steps to install the assembly. Also use the following special installation instructions.

Special installation instructions: Fuser (M14-M17)

- a. Make sure the upper spring (callout 1) is firmly held in its original position when it is reinstalled.

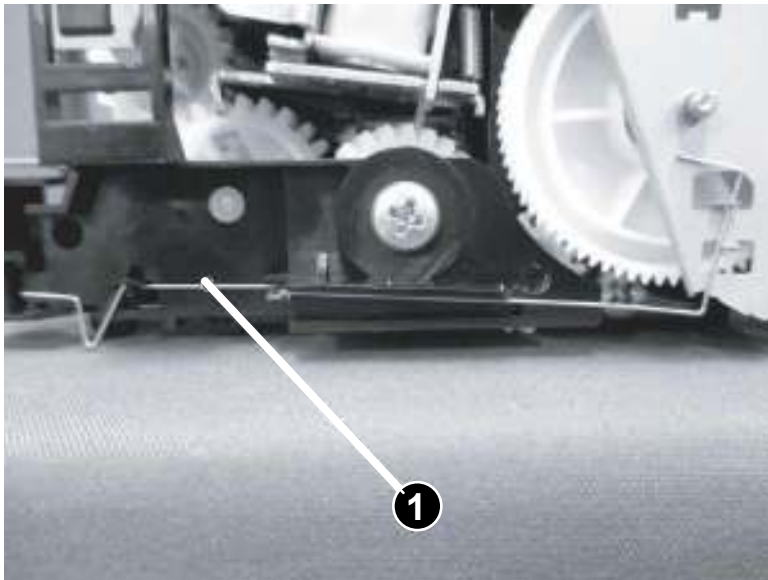
Figure 1-213 Reinstall the spring (upper)



- b. Make sure the lower spring (callout 1) is firmly held in its original position when it is reinstalled.


CAUTION: Do not deform the spring when it is reinstalled.

Figure 1-214 Reinstall the spring (lower)



Step 6: Unpack the replacement assembly


1. Dispose of the defective part.

 **NOTE:** HP recommends responsible disposal of the defective part.

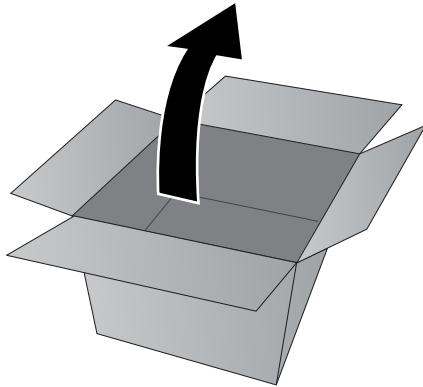
www.hp.com/recycle



2. Unpack the replacement part from the packaging.

 **CAUTION:** If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands or before touching rollers or pads.

 **IMPORTANT:** Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.



Remove and replacement: Fuser (MFP M28-M31)

- [Introduction](#)
- [Step 1: Remove the formatter cover \(MFP M28-M31\)](#)
- [Step 2: Remove the image scanner \(MFP M28-M31\)](#)
- [Step 3: Remove the top cover \(MFP M28-M31\)](#)
- [Step 4: Remove the lower cover \(MFP M28-M31\)](#)
- [Step 5: Remove the fuser \(MFP M28-M31\)](#)
- [Step 6: Unpack the replacement assembly](#)

Introduction

This document provides the procedures to remove and replace the fuser (MFP M28-M31).



IMPORTANT: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Before performing service

- Turn the printer power off.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts

Fuser (MFP M28-M31) part number	
RM2-2131-000CN	Fuser (110-127V; MFP M28-M31)
RM2-2107-000CN	Fuser (220-240V; MFP M28-M31)

Required tools

- #2 Phillips screwdriver with a magnetic tip

After performing service

- Turn the printer power on.

Post service test

Send a job to the printer, and then verify that print quality is acceptable.

Step 1: Remove the formatter cover (MFP M28-M31)

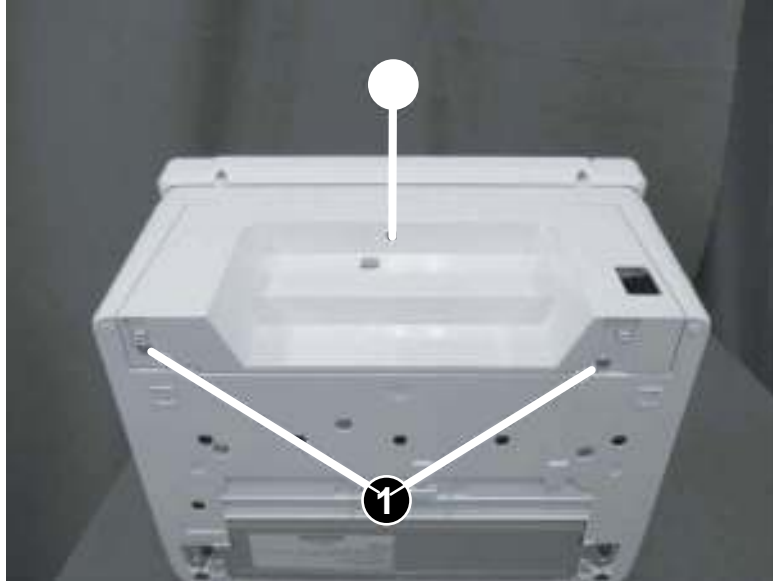
- ▲ Position the printer front side down.

Remove two screws (callout 1), and then remove the formatter cover (callout 2).



Reinstallation tip: Reverse the removal steps to install the assembly.

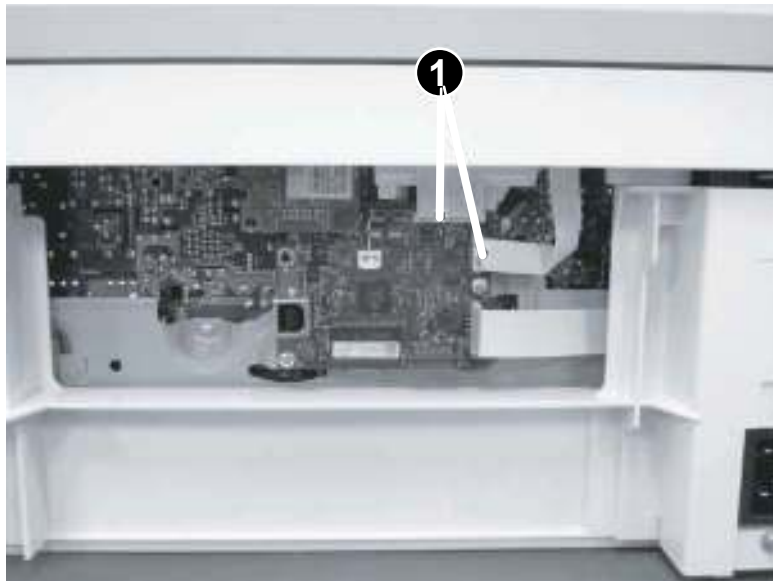
Figure 1-215 Remove the formatter cover (MFP M28-M31)



Step 2: Remove the image scanner (MFP M28-M31)

1. Disconnect two flat flexible cables (FFCs) (callout 1).

Figure 1-216 Disconnect two FFCs

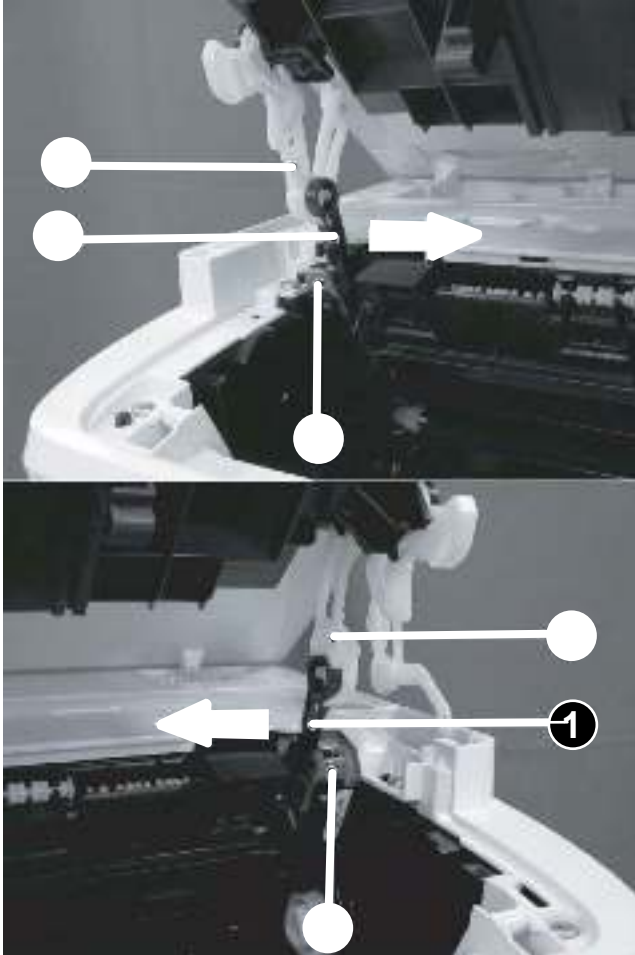


2. Before proceeding, take note of the following disassembly instructions.

When removing the link arm (callout 2) from the pressure release lever (callout 1), the pressure plate (callout 3) might be deformed if the pressure release lever moves in the direction shown below.

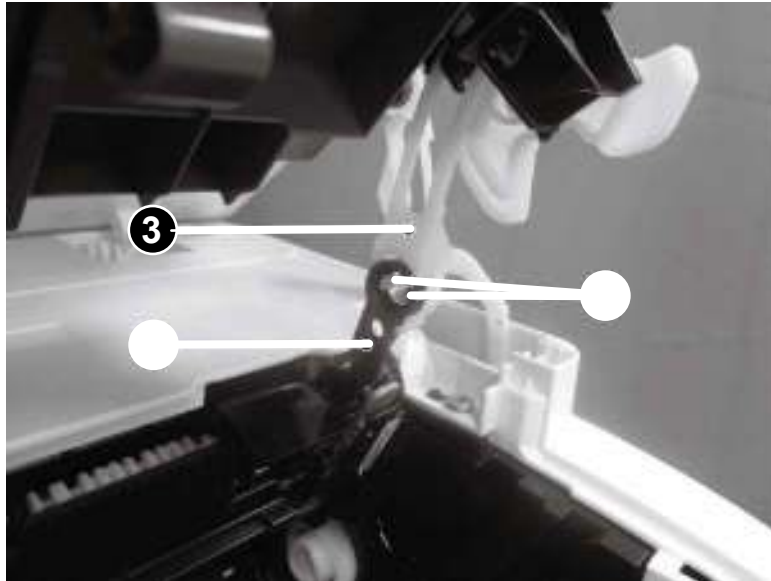
 **CAUTION:** Do not deform the pressure plate.

Figure 1-217 Special disassembly instructions



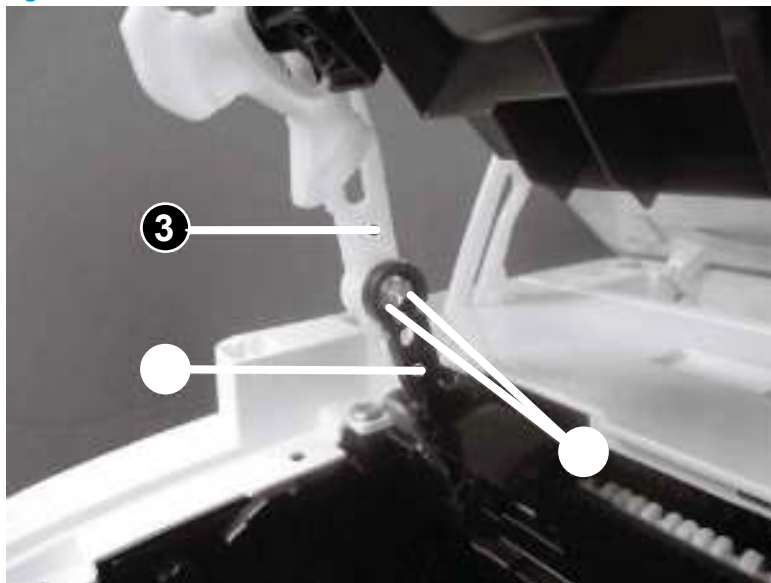
3. Open the image scanner, release two tabs (callout 1), remove one link arm (callout 3) from the pressure release lever (callout 2).

Figure 1-218 Remove the link arm



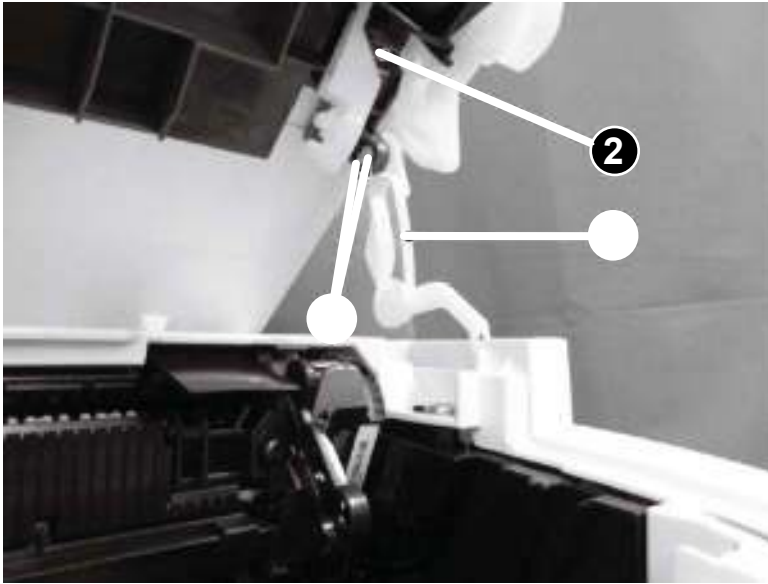
4. Release two tabs (callout 1), and then remove one link arm (callout 3) from the pressure release lever (callout 2).

Figure 1-219 Remove the link arm



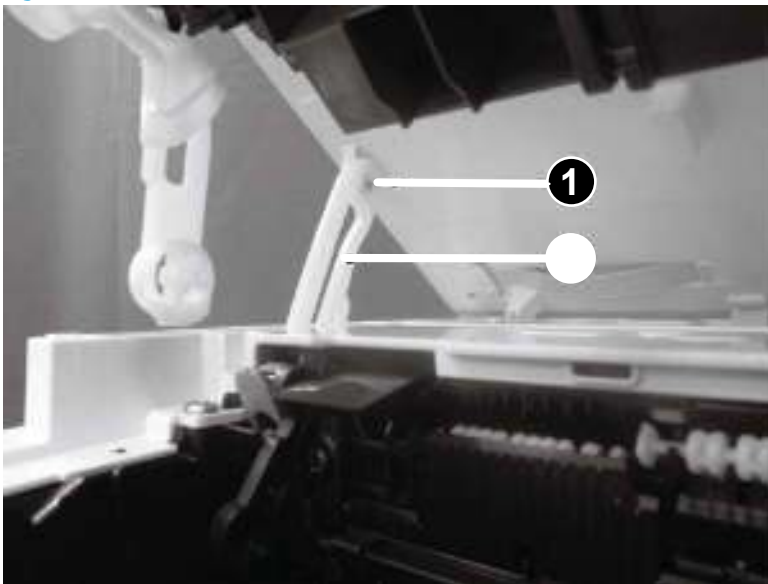
5. Release two tabs (callout 1), and then remove one link arm (callout 3) from the cartridge door (callout 2).

Figure 1-220 Remove the link arm



6. Remove one link arm (callout 2) from the shaft (callout 1).

Figure 1-221 Remove the link arm



7. Pull two flat-flexible cables (FFCs) (callout 2) out and away from the top cover (callout 1), and then slide the image scanner (callout 3) as shown below to remove it.

CAUTION: Do not damage the FFCs.

Reinstallation tip: Reverse the removal steps to install the assembly.

Figure 1-222 Remove the image scanner

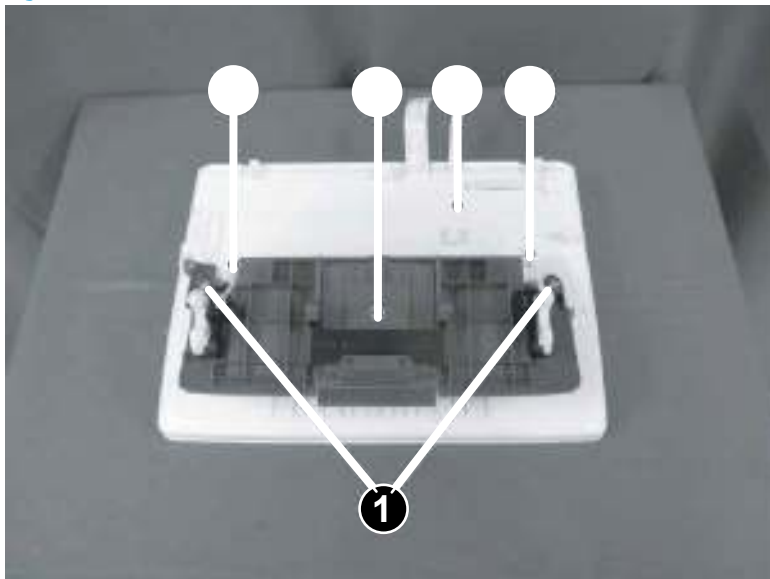


8. For a replacement image scanner, do the following:

NOTE: If the image scanner is removed to access other assemblies, skip this step.

- Remove two screws (callout 1).
- Remove the cartridge door (callout 3) (with the link arms; callout 4) from the image scanner (callout 2).

Figure 1-223 Remove the cartridge door



Step 3: Remove the top cover (MFP M28-M31)

1. Remove two screws (M3; callout 1), remove seven screws (M4; callout 2), release one tab (callout 3), and then remove the top cover (callout 4).


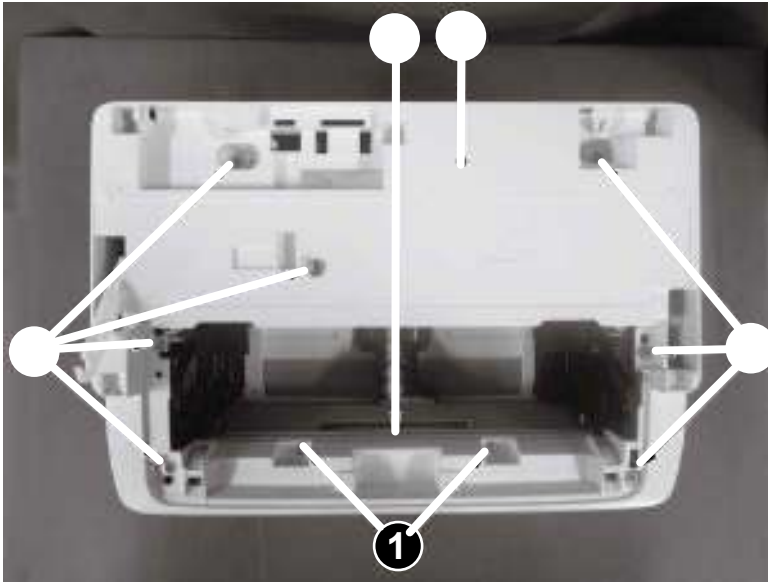

 **Reinstallation tip:** Reverse the removal steps to install the assembly.

Figure 1-224 Remove the top cover



2. Reverse the removal steps to install the assembly. Also use the following special installation instructions.

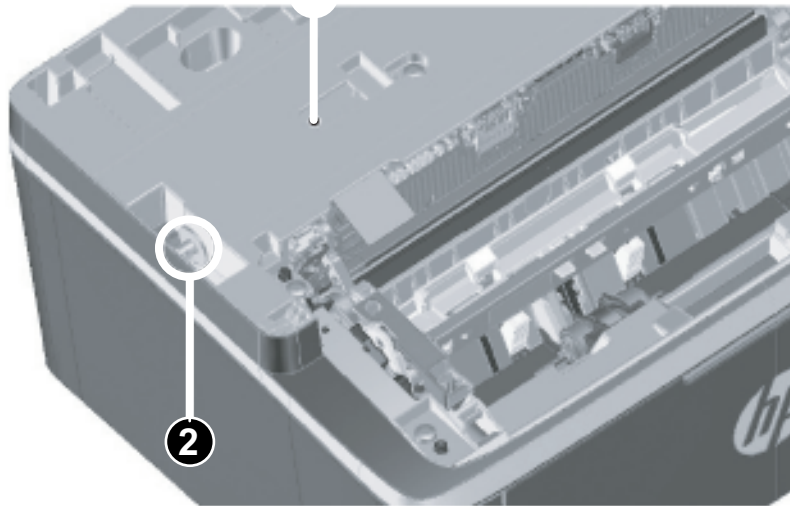
 **NOTE:** Continue to reverse the removal steps to finish installing the assembly.

 **TIP:** If the top cover is removed to access other assemblies, skip this step.

Special installation instructions: Top cover

- ▲ Remove the pad (callout 2) from the top cover (callout 1), and then install it on the replacement top cover.

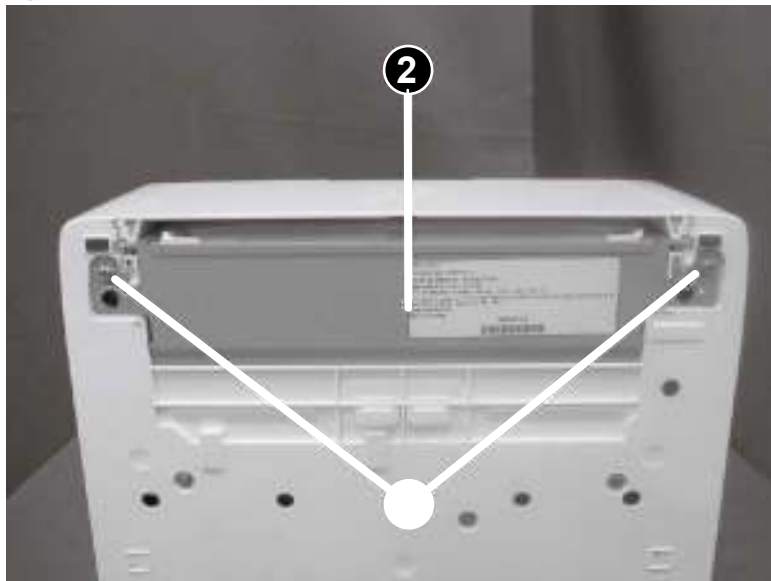
Figure 1-225 Install the pad



Step 4: Remove the lower cover (MFP M28-M31)

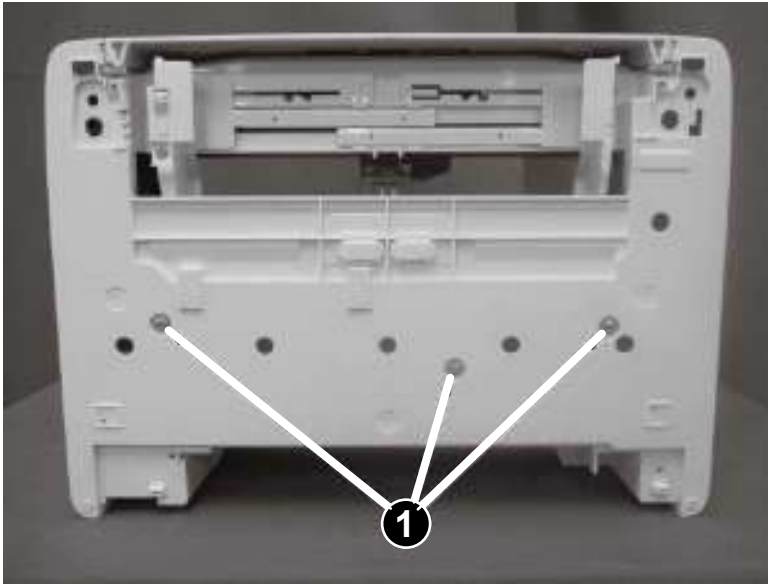
1. Position the printer rear side down, remove two screws (callout 1), and then remove the lower plate (callout 2)

Figure 1-226 Remove the lower plate



2. Remove three screws (callout 1).

Figure 1-227 Remove three screws



3. Remove two screws (callout 1), and then remove the lower cover (callout 2).


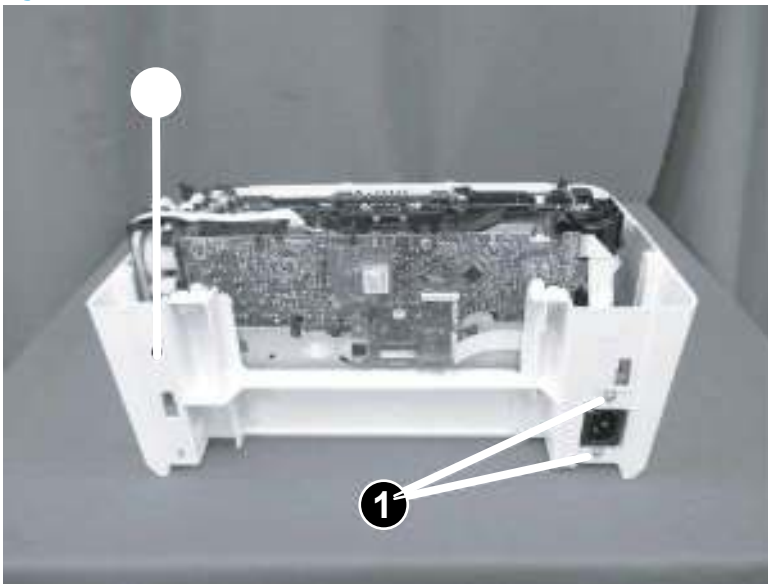
 **Reinstallation tip:** Reverse the removal steps to install the assembly.

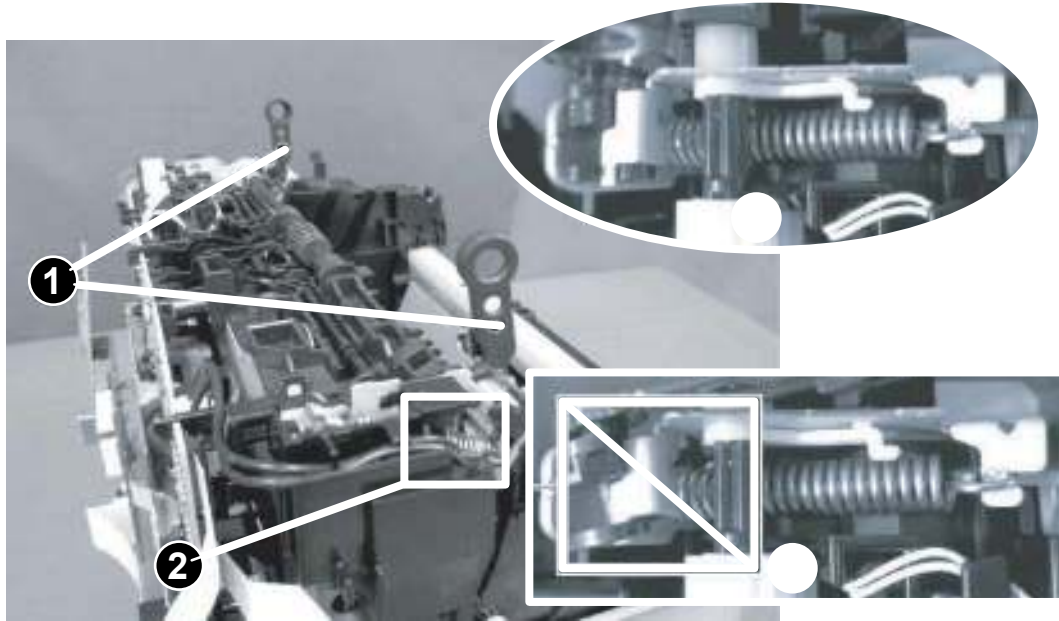
Figure 1-228 Remove the lower cover



Step 5: Remove the fuser (MFP M28-M31)

1. When removing the fuser do not rotate the pressure release levers (callout 1) too far or the side plates (callout 2; left side shown) can be deformed.
 - **Callout 3:** Correct pressure lever rotation and side plate position.
 - **Callout 4:** Incorrect pressure lever rotation and side plate position.

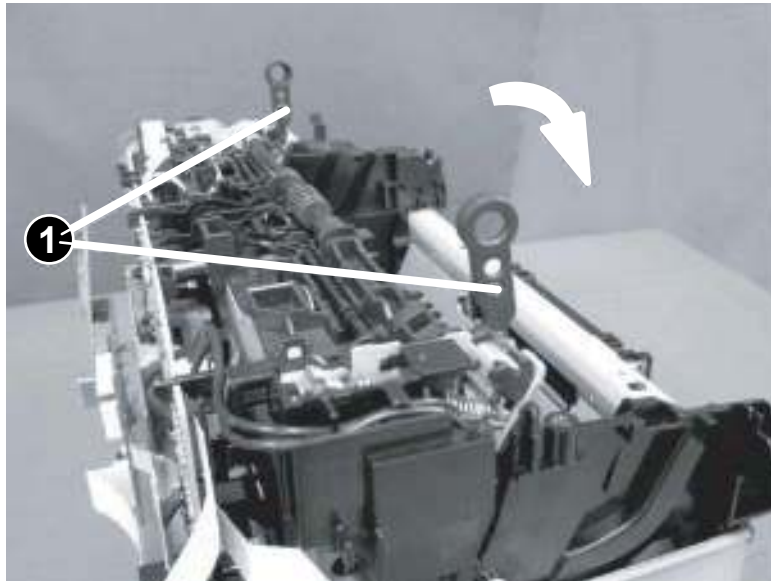
Figure 1-229 Pressure release lever



2. Rotate the pressure release levers (callout 1) (in the direction shown below) until they hang loose.

CAUTION: Do not damage the side plates when rotating the pressure release levers.

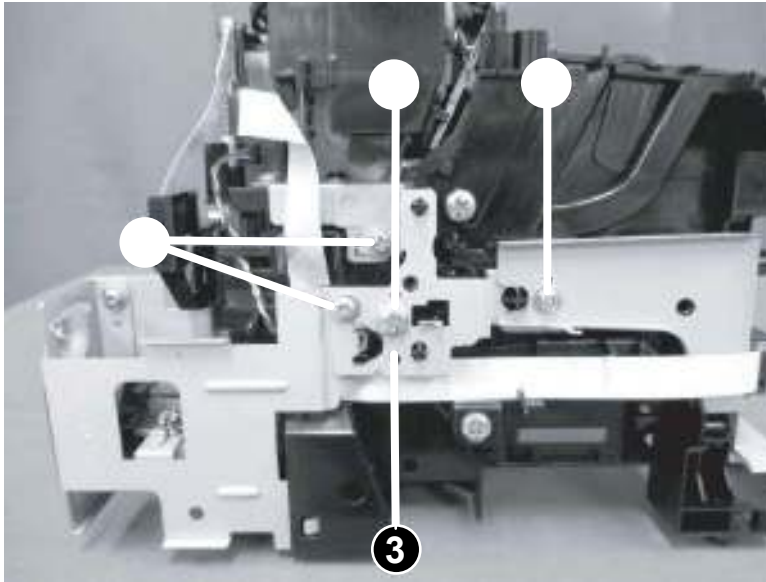
Figure 1-230 Rotate the pressure release levers



3. Do the following:
 - a. Remove three screws (M3; callout 1).
 - b. Remove one screw (M4; callout 2).

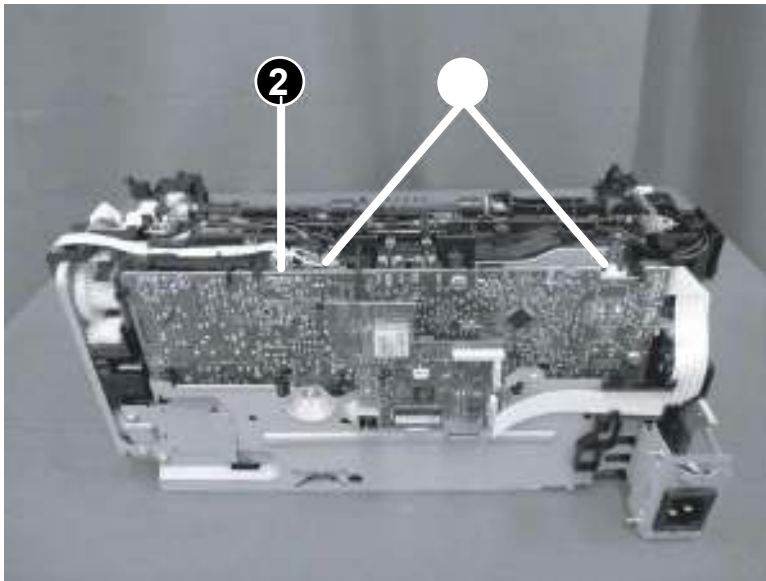
- c. Remove the plate (callout 3).

Figure 1-231 Remove the plate



- 4. Do the following:
 - a. Disconnect two connectors (callout 1).
 - b. Remove one FFC (callout 2).

Figure 1-232 Disconnect two connectors



5. Release the FFC (callout 2) from the guide (callout 1), and then unhook one spring (callout 3).


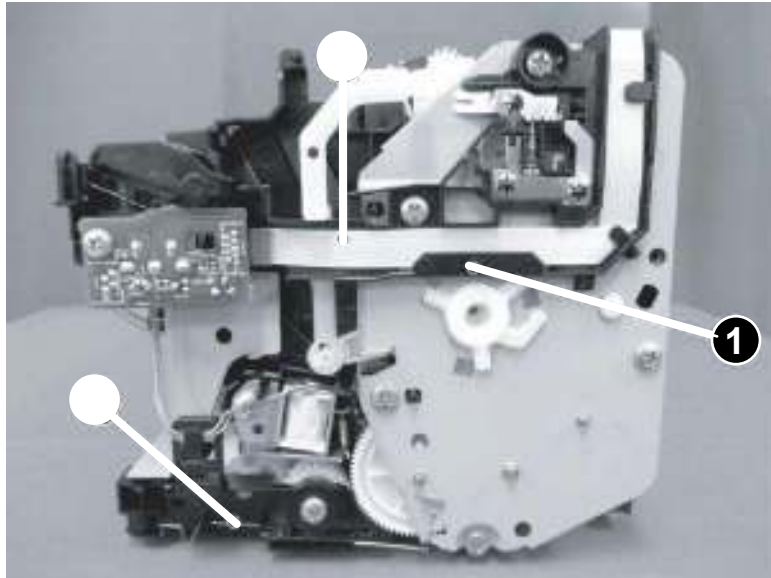
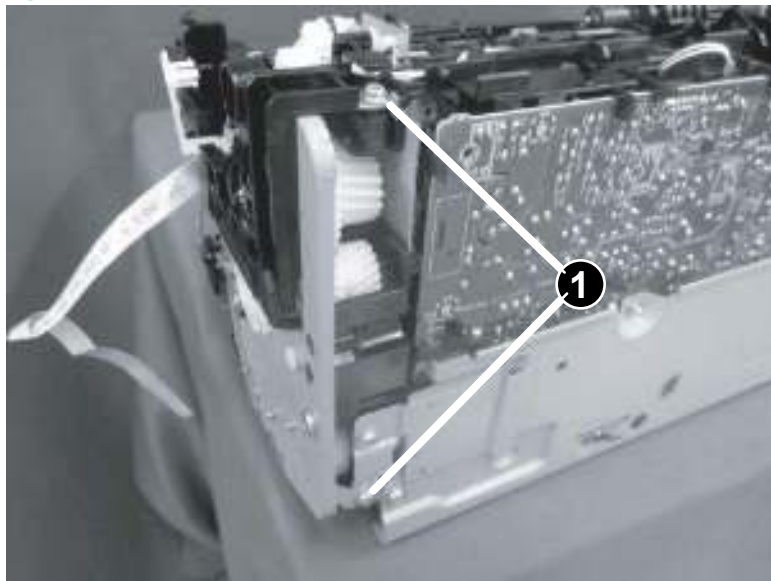
 **Reinstallation tip:** To reinstall the spring, see [Special installation instructions: Fuser \(M28-M31\)](#) on page 205.

Figure 1-233 Release the FFC and spring



6. Remove two screws (callout 1).

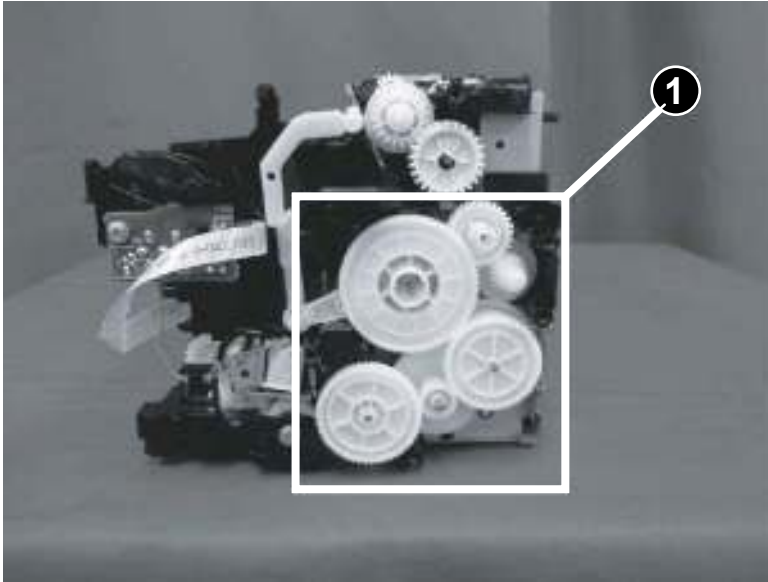
Figure 1-234 Remove two screws



7. Before proceeding, take note of the following disassembly instructions:

At the right side of the printer, the gears (callout 1) and springs (callout 1) are held in place by a plate (shown removed). Since they are not captive, be careful when removing the plate, or the gears and springs might fall off the printer.

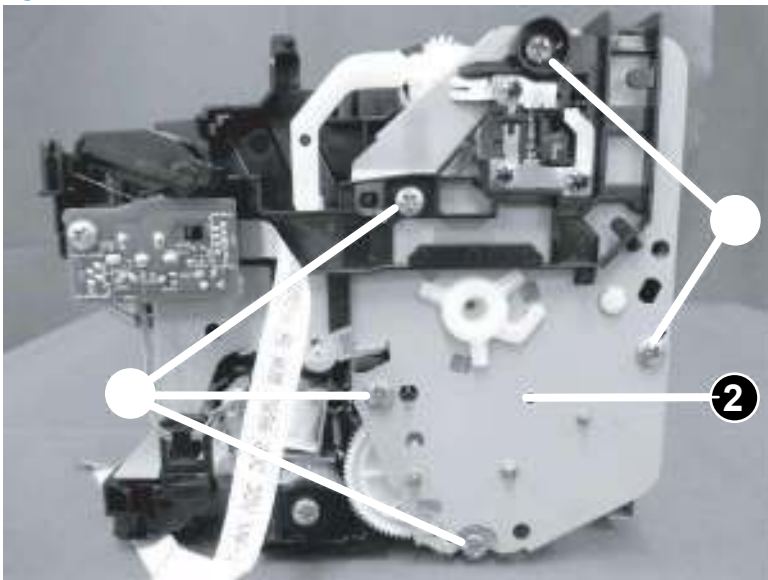
Figure 1-235 Right side gears and springs



8. Remove five screws (callout 1), and then remove the plate (callout 2).

CAUTION: The gears and springs behind the plate are not captive.

Figure 1-236 Remove the plate



9. Do the following:
- Remove three screws (callout 1).
 - Lift up the fuser (callout 2).

- c. Slide the fuser (callout 2) as shown below, and then remove it.


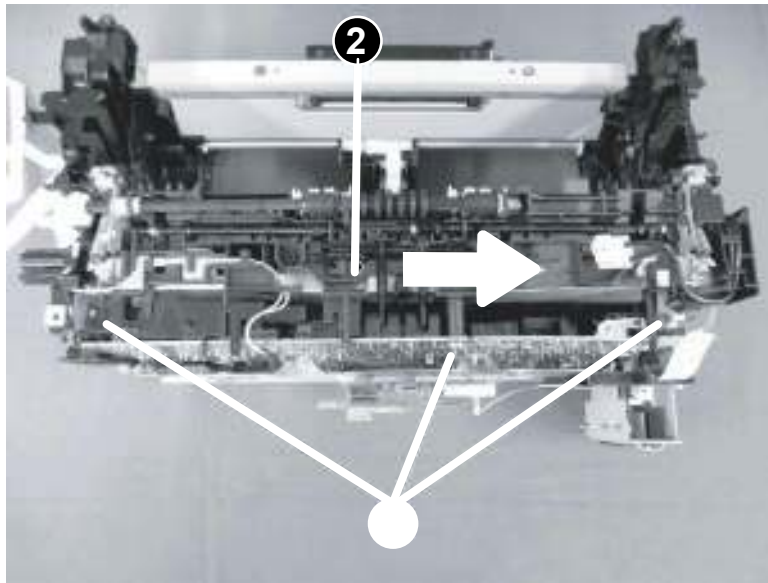
 **Reinstallation tip:** Reverse the removal steps to install the assembly.

Figure 1-237 Remove the fuser



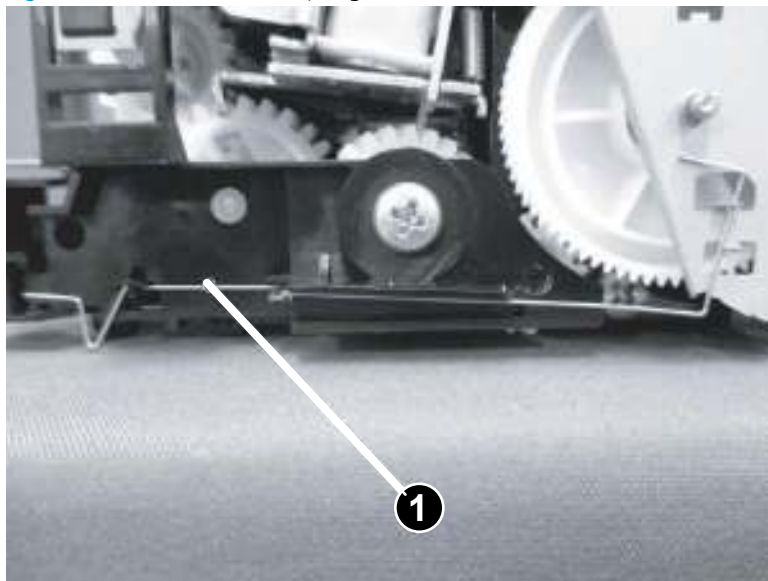
10. Reverse the removal steps to install the assembly. Also use the following special installation instructions.

Special installation instructions: Fuser (M28-M31)

- ▲ Make sure the spring (callout 1) is firmly held in its original position when it is reinstalled.


 **CAUTION:** Do not deform the spring when it is reinstalled.

Figure 1-238 Reinstall the spring (lower)



Step 6: Unpack the replacement assembly


1. Dispose of the defective part.

 **NOTE:** HP recommends responsible disposal of the defective part.

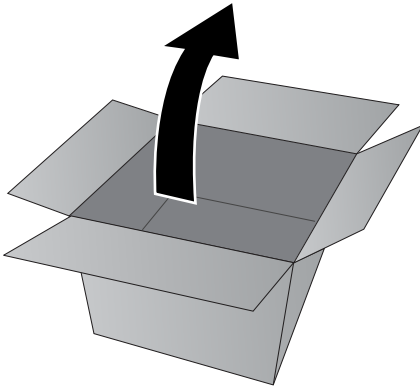
www.hp.com/recycle



2. Unpack the replacement part from the packaging.

 **CAUTION:** If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands or before touching rollers or pads.

 **IMPORTANT:** Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.



Remove and replacement: Fuser film assembly (M14-M17)

- [Introduction](#)
- [Step 1: Remove the cartridge door \(M14-M17\)](#)
- [Step 2: Remove the formatter cover \(M14-M17\)](#)
- [Step 3: Remove the lower cover \(M14-M17\)](#)
- [Step 4: Remove the formatter \(M14-M17\)](#)
- [Step 5: Remove the fuser \(M14-M17\)](#)
- [Step 6: Remove the fuser film assembly](#)
- [Step 7: Unpack the replacement assembly](#)

Introduction

This document provides the procedures to remove and replace the fuser film assembly (M14-M17).



IMPORTANT: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Before performing service

- Turn the printer power off.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts

Fuser film assembly part number	
RM2-2132-000CN	Fuser film assembly (110-127V)
RM2-2130-000CN	Fuser film assembly (220-240V)

Required tools

- #2 Phillips screwdriver with a magnetic tip
- Small flat-blade screw driver (optional)

After performing service

- Turn the printer power on.

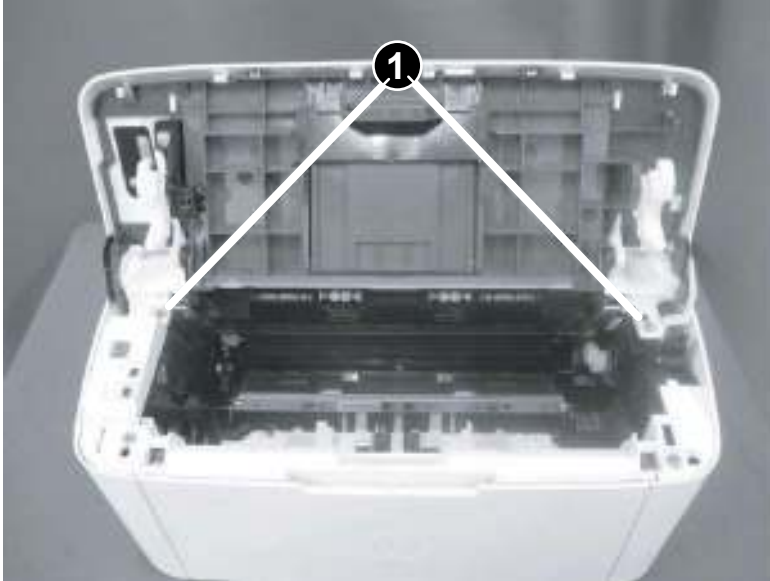
Post service test

Send a job to the printer, and then verify that print quality is acceptable.

Step 1: Remove the cartridge door (M14-M17)

1. Open the cartridge door, and then remove two screws (callout 1).

Figure 1-239 Remove two screw

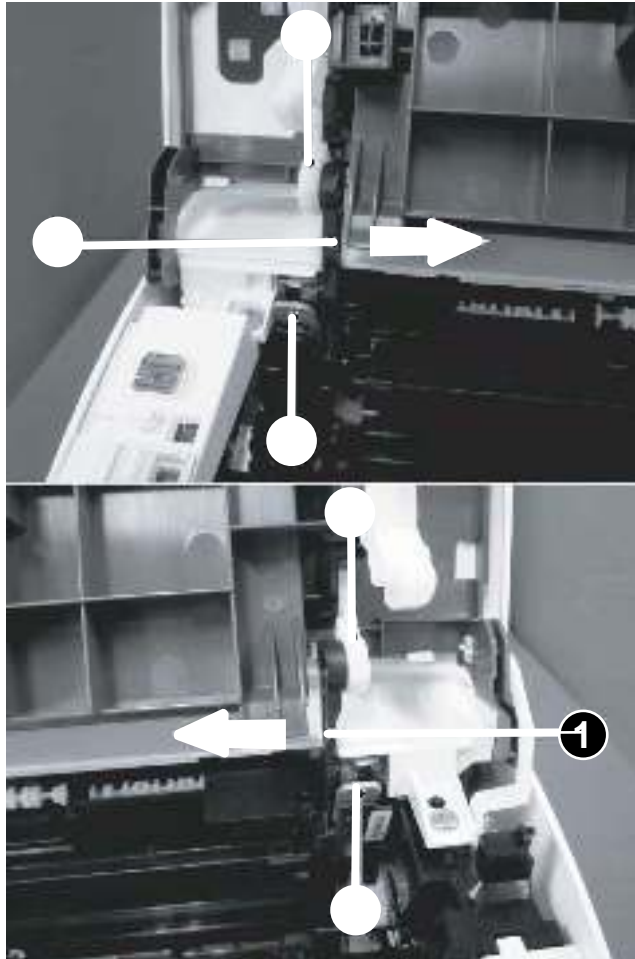


2. Before proceeding, take note of the following disassembly instructions.

When removing the link arm (callout 2) from the pressure release lever (callout 1), the pressure plate (callout 3) might be deformed if the pressure release lever moves in the direction shown below.

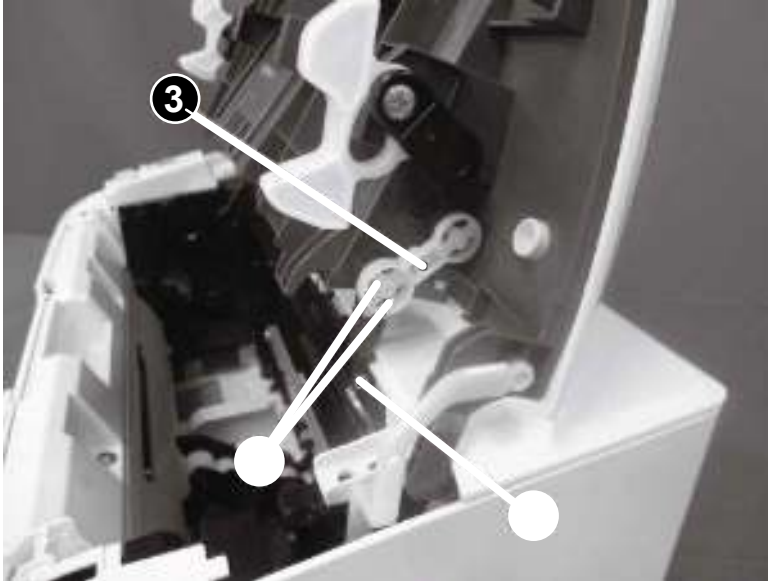
 **CAUTION:** Do not deform the pressure plate.

Figure 1-240 Special disassembly instructions



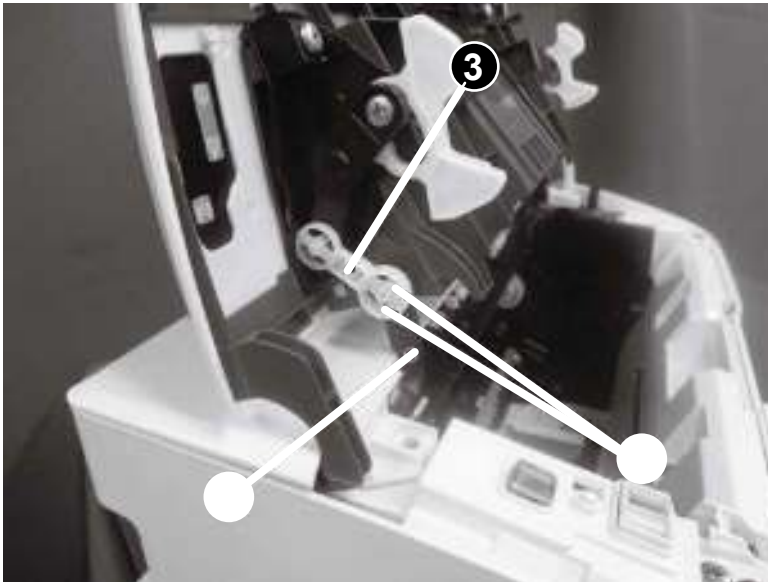
3. Release two tabs (callout 1), and then remove one link arm (callout 3) from the pressure release lever (callout 2).

Figure 1-241 Remove the link arm



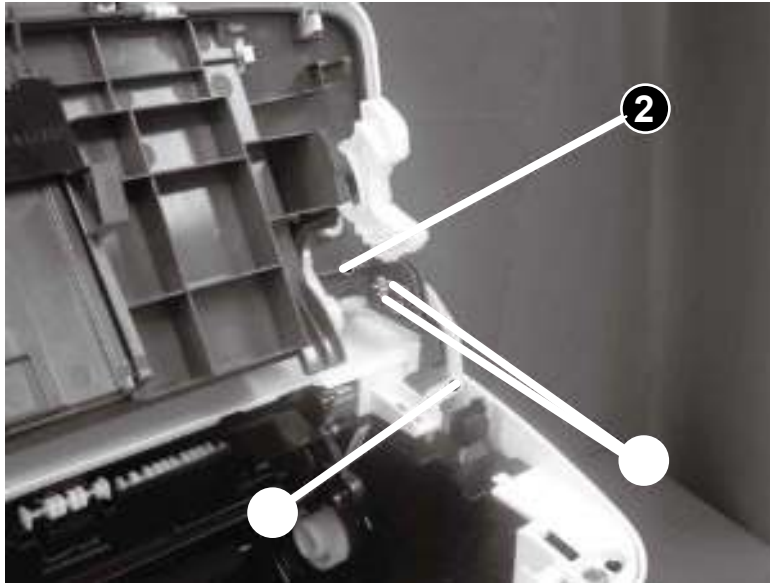
4. Release two tabs (callout 1), and then remove one link arm (callout 3) from the pressure release lever (callout 2).

Figure 1-242 Remove the link arm



5. Release two tabs (callout 1), and then remove one link arm (callout 3) from the cartridge door assembly (callout 2).

Figure 1-243 Remove the link arm



6. Release one tab (callout 1), support the cartridge door (callout 2), and then remove it.

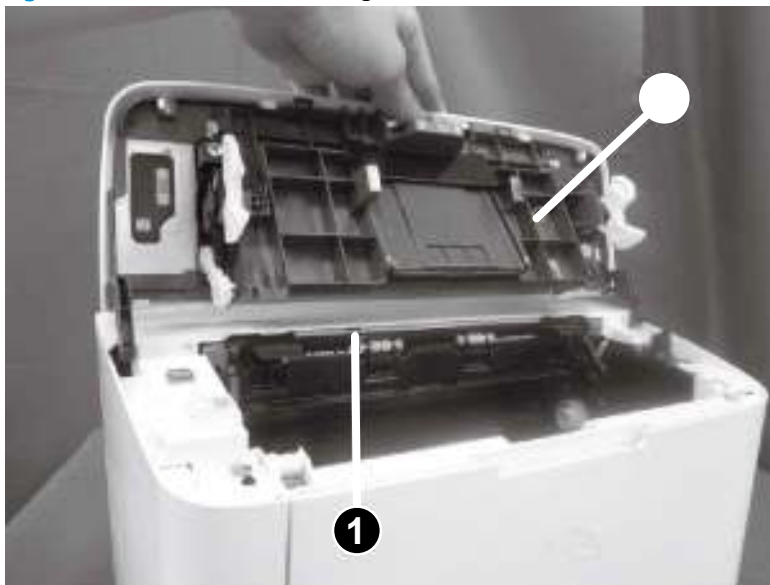


NOTE: If the cartridge door is removed to access other assembly, stop at this step.



Reinstallation tip: Reverse the removal steps to install the door.

Figure 1-244 Remove the cartridge door



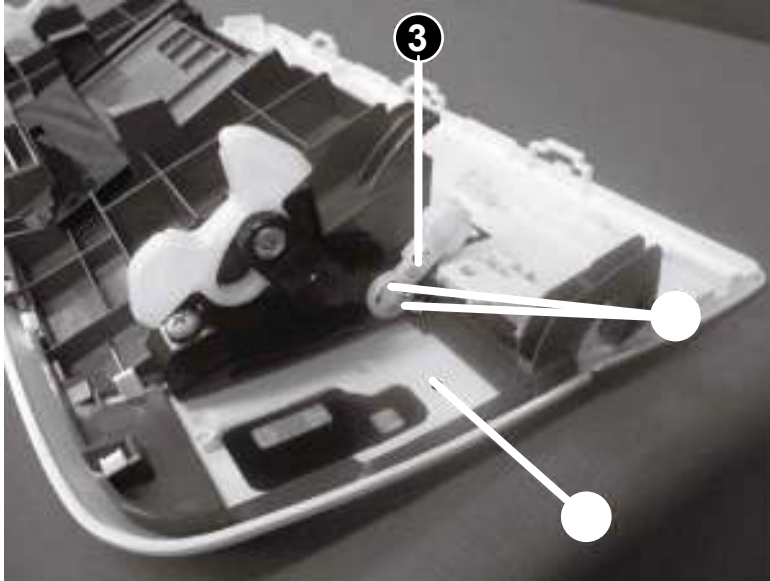
7. **Optional step:** If a replacement cartridge door is being installed, do the following:



NOTE: Install the link arms on the replacement door.

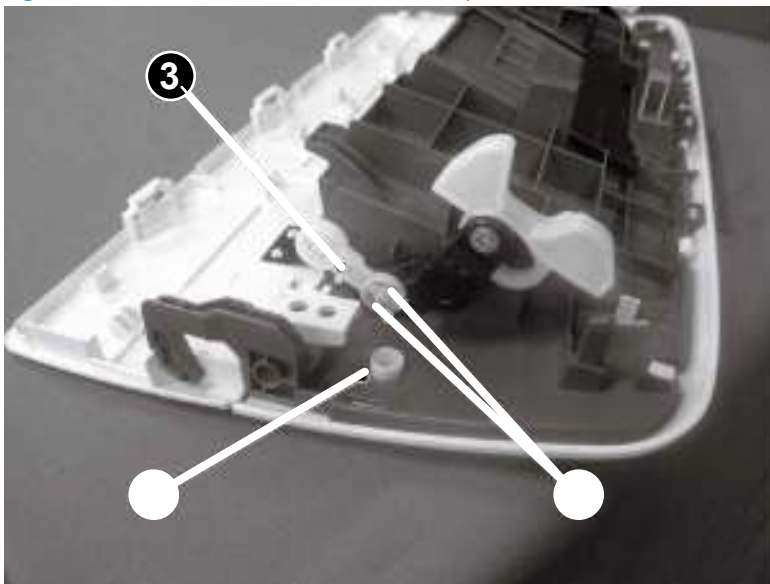
- a. Release two tabs (callout 1), and then remove the one link arm (callout 3) from the door assembly (callout 2).

Figure 1-245 Install the link arms on the replacement door



- b. Release two tabs (callout 1), and then remove the one link arm (callout 3) from the door assembly (callout 2).

Figure 1-246 Install the link arms on the replacement door



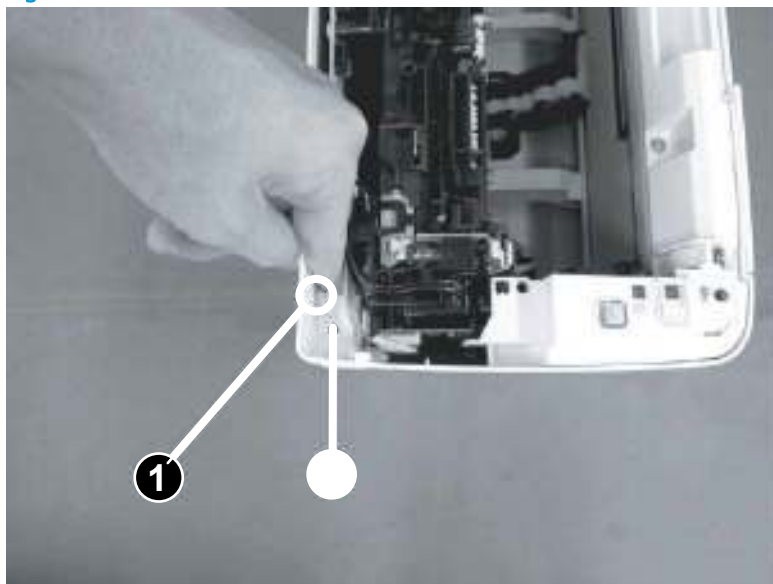
Step 2: Remove the formatter cover (M14-M17)

- ▲ Position the printer front side down.

Release one tab (callout 1), and then remove the formatter cover (callout 2).

💡 **Reinstallation tip:** Reverse the removal steps to install the assembly.

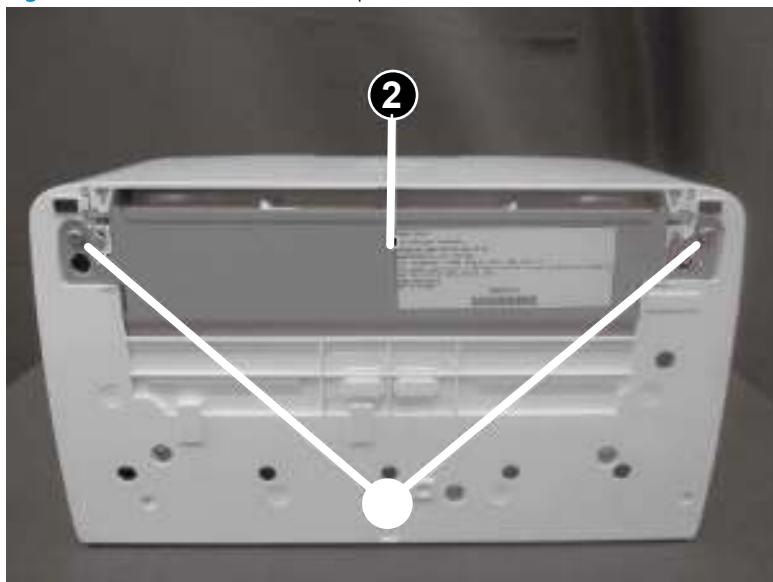
Figure 1-247 Remove the formatter cover (M14-M17)



Step 3: Remove the lower cover (M14-M17)

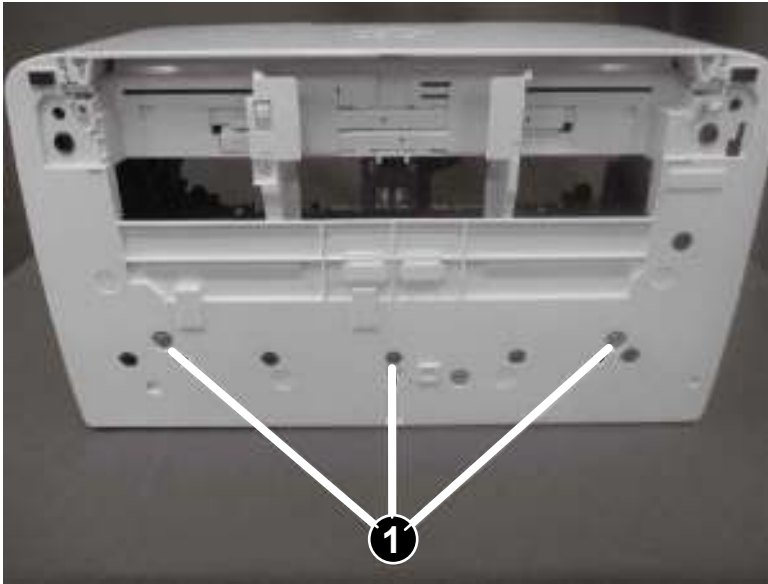
1. Position the printer rear side down, remove three screws (callout 1), and then remove the lower plate (callout 2).

Figure 1-248 Remove the lower plate



2. Remove three screws (callout 1)

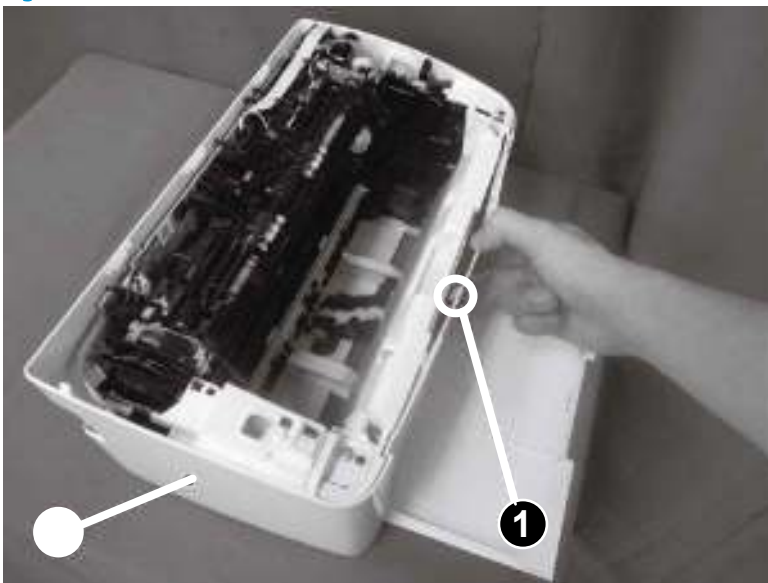
Figure 1-249 Remove the three screws



3. With the printer in the upright position, release one tab (callout 1), and then remove the lower cover (callout 2).

 **Reinstallation tip:** Reverse the removal steps to install the assembly.

Figure 1-250 Remove the lower cover



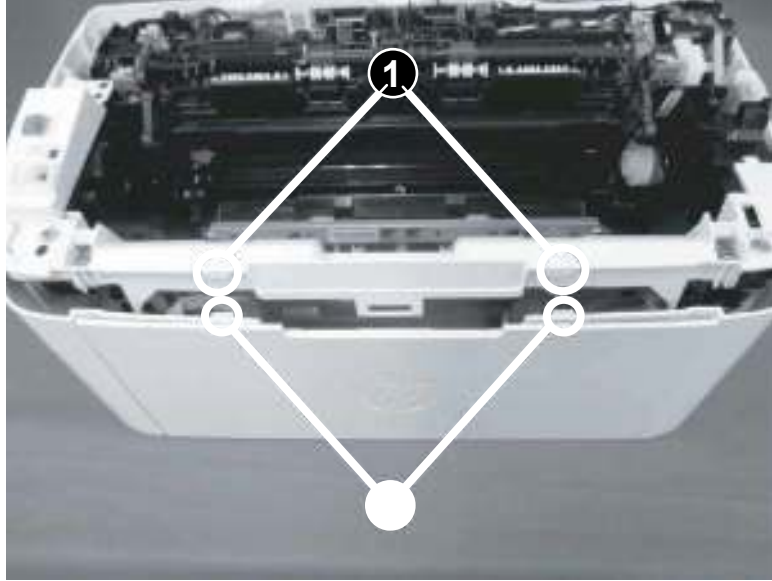
4. Reverse the removal steps to install the assembly. Also use the following special installation instructions.

 **NOTE:** Continue to reverse the removal steps to finish installing the assembly.

Special installation instructions: Lower cover

- ▲ Make sure to fit two ribs (callout 1) on the printer into the grooves (callout 2) in the lower cover.

Figure 1-251 Fit two ribs on the printer into the grooves (lower cover install)



Step 4: Remove the formatter (M14-M17)

▲ Do the following:

- a. Remove two flat flexible cables (FFCs) (callout 1).

💡 **TIP:** It might be easier to use a small flat blade screwdriver to release the large FFC.

- b. Remove one screw (callout 2).

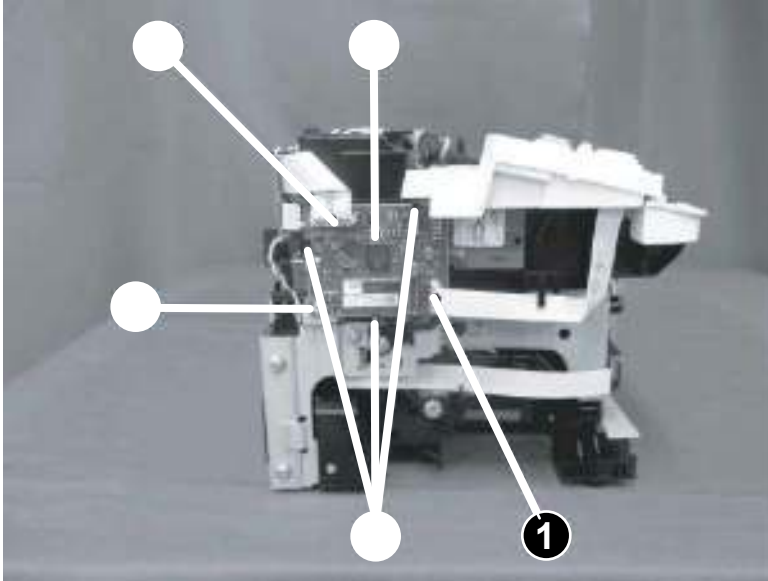
📝 **NOTE:** Use a micro tip screwdriver to remove this screw.

- c. Release three tabs (callout 3).

- d. Remove the formatter (callout 4).

💡 **Reinstallation tip:** Reverse the removal steps to install the assembly.

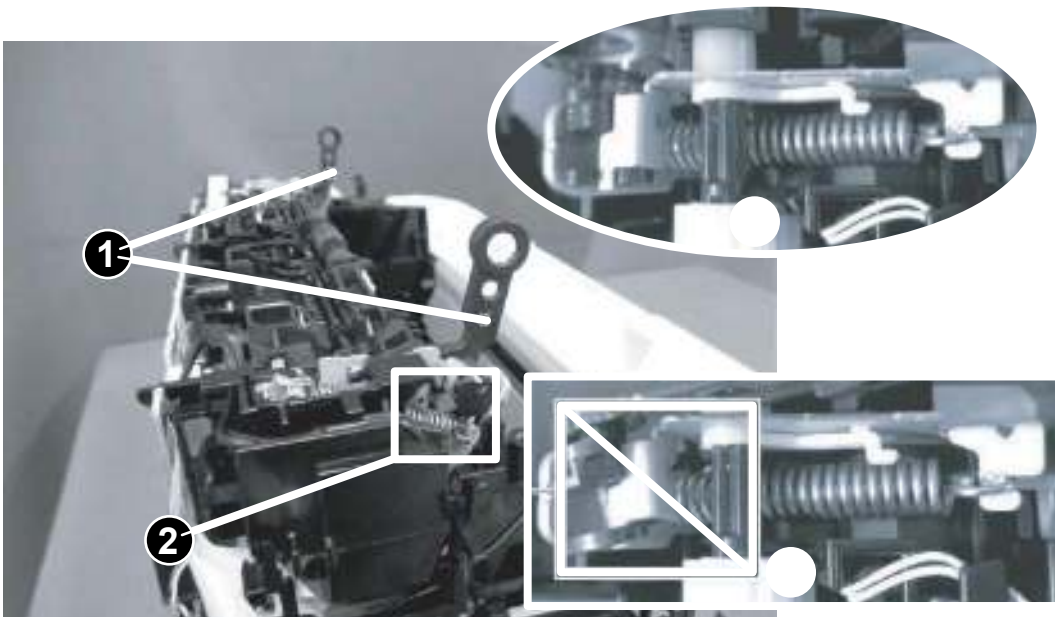
Figure 1-252 Remove the formatter



Step 5: Remove the fuser (M14-M17)

1. When removing the fuser do not rotate the pressure release levers (callout 1) too far or the side plates (callout 2; left side shown) can be deformed.
 - **Callout 3:** Correct pressure lever rotation and side plate position.
 - **Callout 4:** Incorrect pressure lever rotation and side plate position.

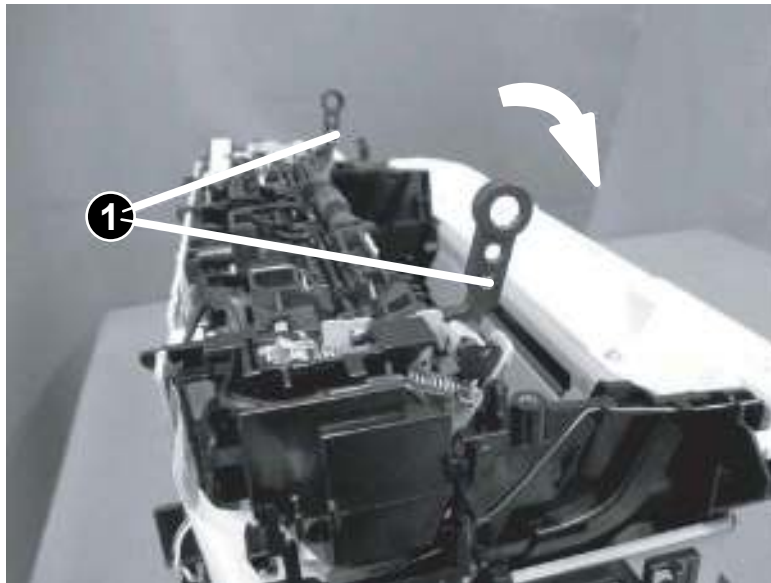
Figure 1-253 Pressure release lever



2. Rotate the pressure release levers (callout 1) (in the direction shown below) until they hang loose.

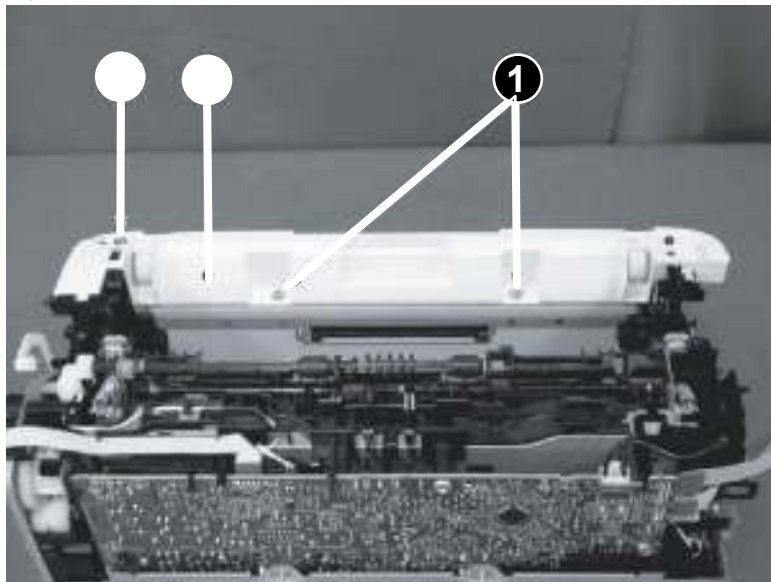
⚠ CAUTION: Do not damage the side plates when rotating the pressure release levers.

Figure 1-254 Rotate the pressure release levers



3. Do the following:
 - a. Remove two screws (M3; callout 1).
 - b. Remove one screw (M4; callout 2).
 - c. Remove the inner cover (callout 3).

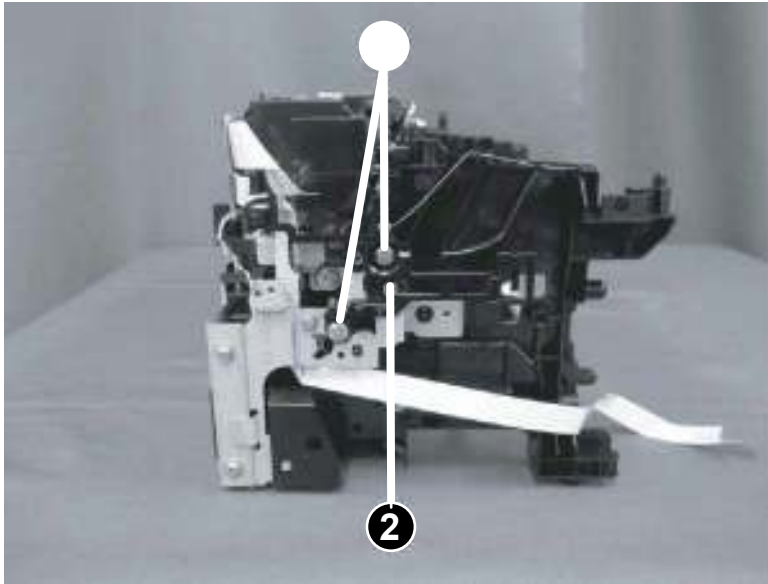
Figure 1-255 Remove the inner cover



4. Do the following:
 - a. Remove two screws (callout 1).

- b. Remove the cable guide (callout 2).

Figure 1-256 Remove the cable guide



- 5. Release one spring (callout 2) from the plate (callout 1), remove three screws (callout 3), and then remove the plate (callout 1).


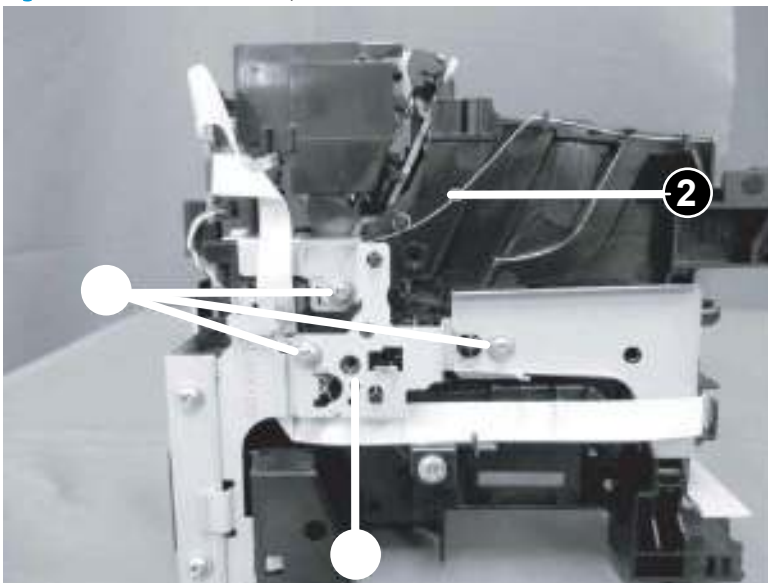
 **Reinstallation tip:** To reinstall the spring, see [Special installation instructions: Fuser \(M14-M17\) on page 190](#).

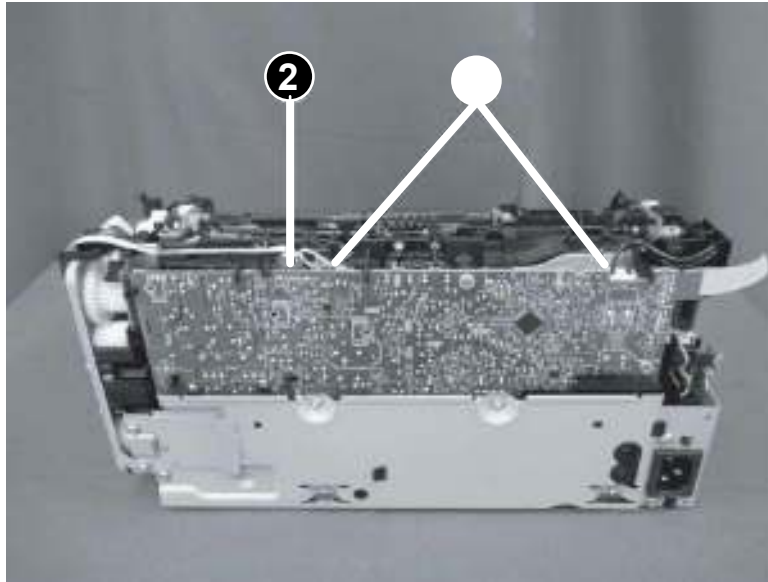
Figure 1-257 Remove the plate



- 6. Do the following:
 - a. Disconnect two connectors (callout 1).

- b. Remove one FFC (callout 2).

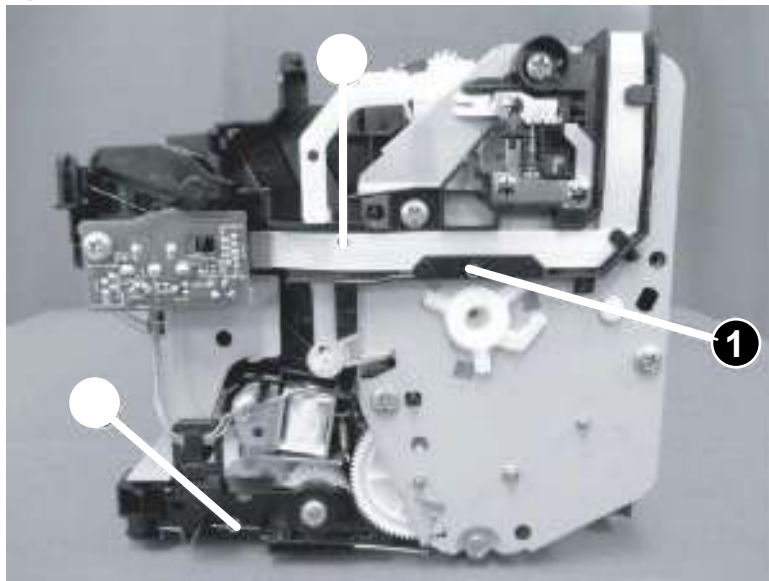
Figure 1-258 Disconnect two connectors



- 7. Release the FFC (callout 2) from the guide (callout 1), and then unhook one spring (callout 3).

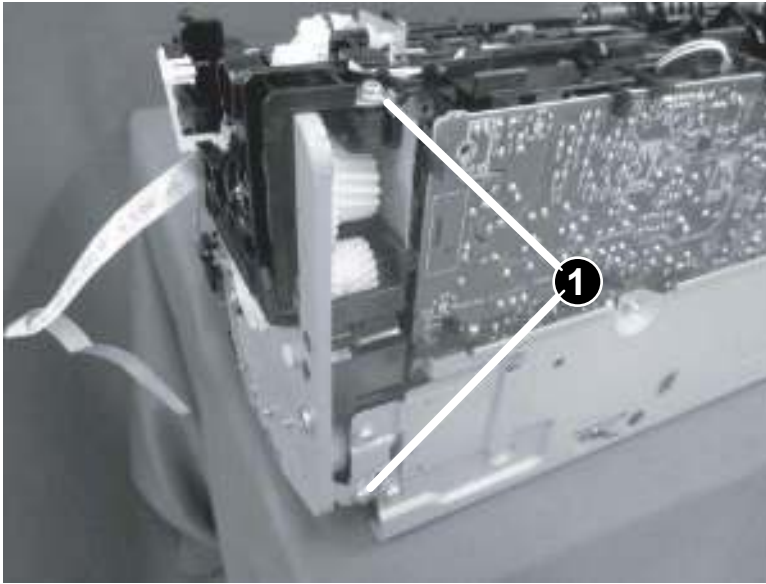
 **Reinstallation tip:** To reinstall the spring, see [Special installation instructions: Fuser \(M14-M17\)](#) on page 190.

Figure 1-259 Release the FFC and spring



8. Remove two screws (callout 1).

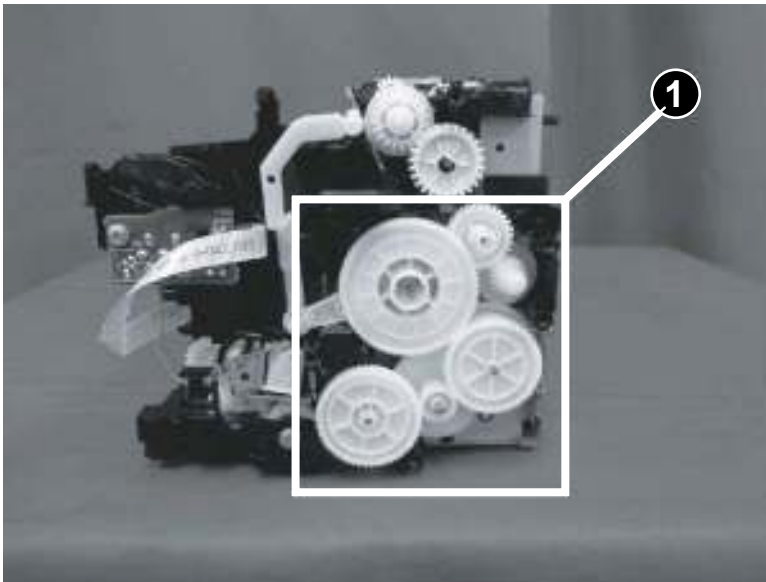
Figure 1-260 Remove two screws



9. Before proceeding, take note of the following disassembly instructions:

At the right side of the printer, the gears (callout 1) and springs (callout 1) are held in place by a plate (shown removed). Since they are not captive, be careful when removing the plate, or the gears and springs might fall off the printer.

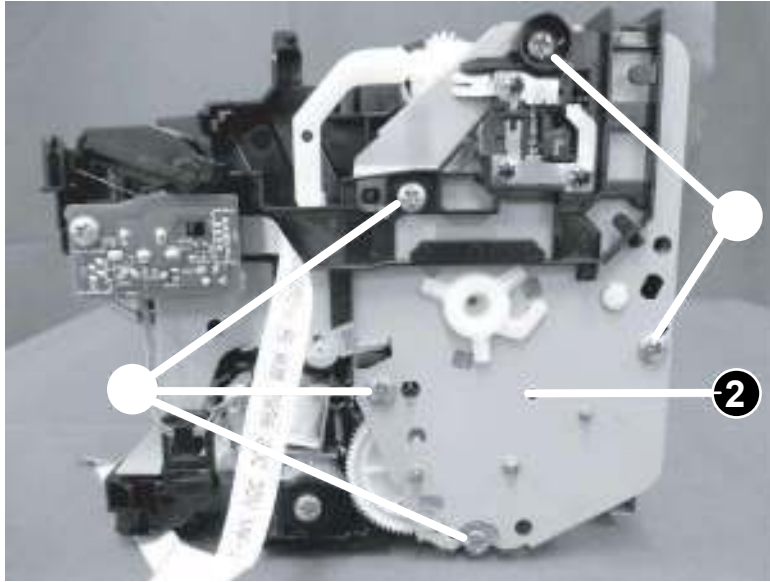
Figure 1-261 Right side gears and springs



10. Remove five screws (callout 1), and then remove the plate (callout 2).

CAUTION: The gears and springs behind the plate are not captive.

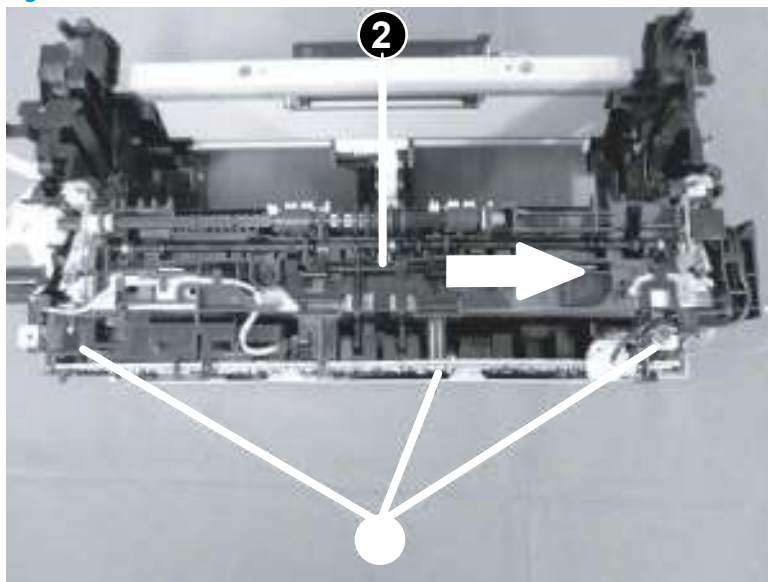
Figure 1-262 Remove the plate



11. Do the following:
- Remove three screws (callout 1).
 - Lift up the fuser (callout 2).
 - Slide the fuser (callout 2) as shown below to remove it.

Reinstallation tip: Reverse the removal steps to install the assembly. Also see [Special installation instructions: Fuser \(M14-M17\) on page 190](#).

Figure 1-263 Remove the fuser

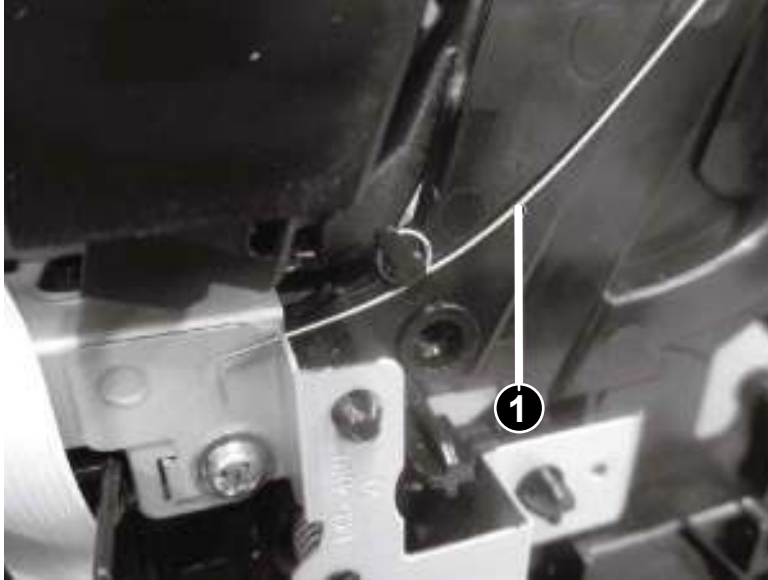


12. Reverse the removal steps to install the assembly. Also use the following special installation instructions.

Special installation instructions: Fuser (M14-M17)

- a. Make sure the upper spring (callout 1) is firmly held in its original position when it is reinstalled.

Figure 1-264 Reinstall the spring (upper)



- b. Make sure the lower spring (callout 1) is firmly held in its original position when it is reinstalled.


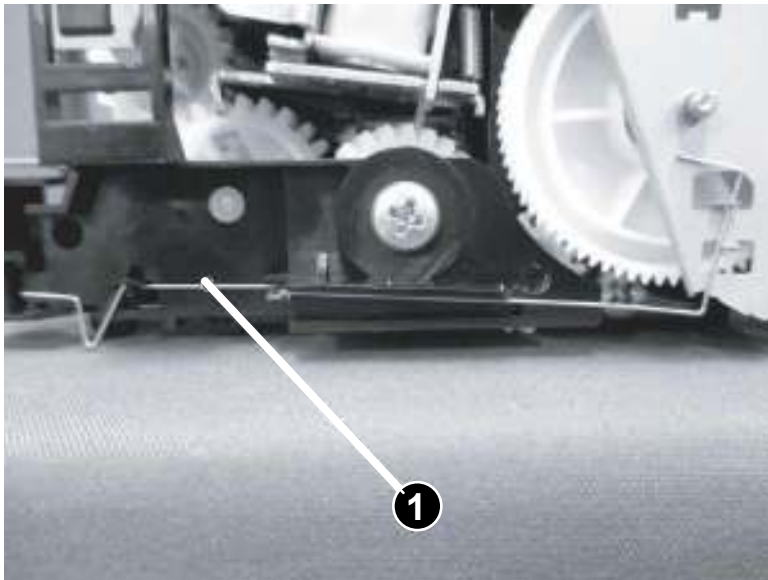
 **CAUTION:** Do not deform the spring when it is reinstalled.

Figure 1-265 Reinstall the spring (lower)

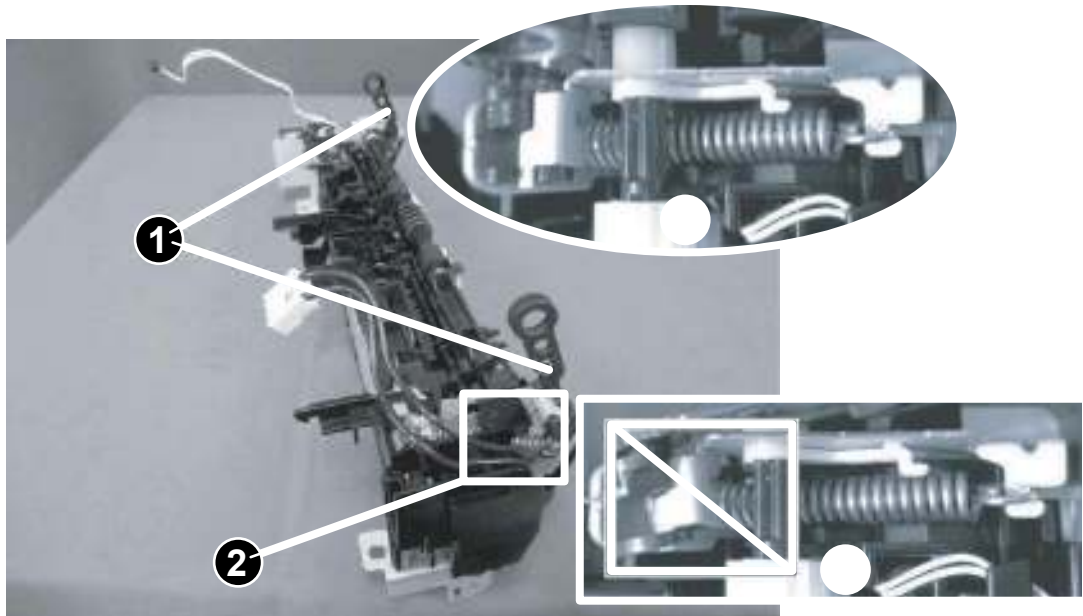


Step 6: Remove the fuser film assembly

1. When removing the fuser film do not rotate the pressure release levers (callout 1) too far or the side plates (callout 2; right side shown) can be deformed.

- **Callout 3:** Correct pressure lever rotation and side plate position.
- **Callout 4:** Incorrect pressure lever rotation and side plate position.

Figure 1-266 Pressure release lever

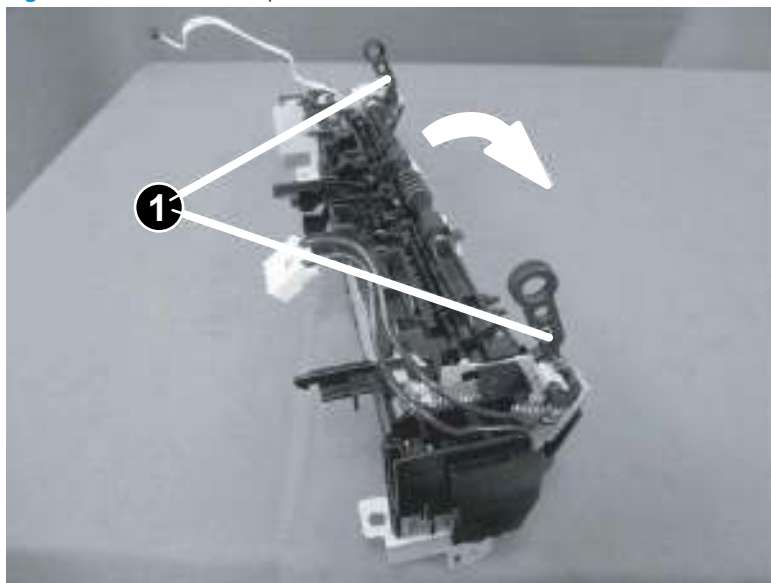


2. Before proceeding, check the following:

- If the pressure release levers (callout 1) are positioned upward (as shown below), rotate them in the direction shown until they hang loose.

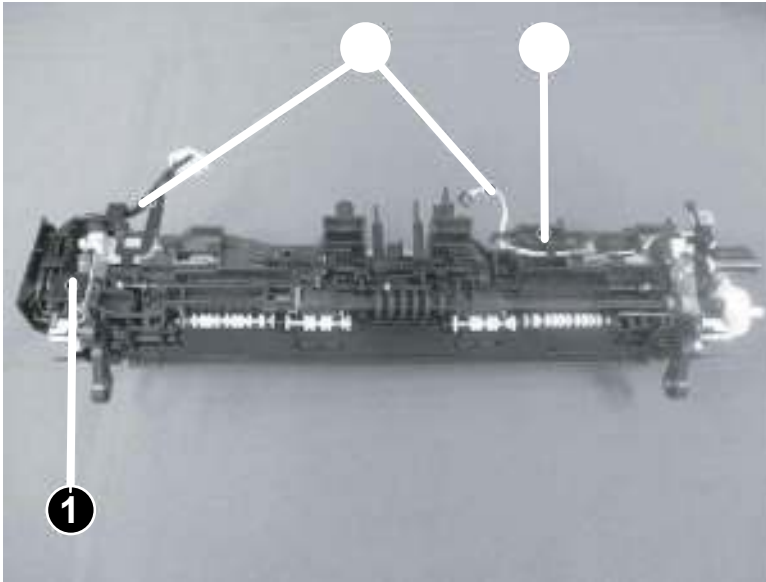
CAUTION: Do not damage the side plates when rotating the pressure release levers.

Figure 1-267 Check the pressure release levers



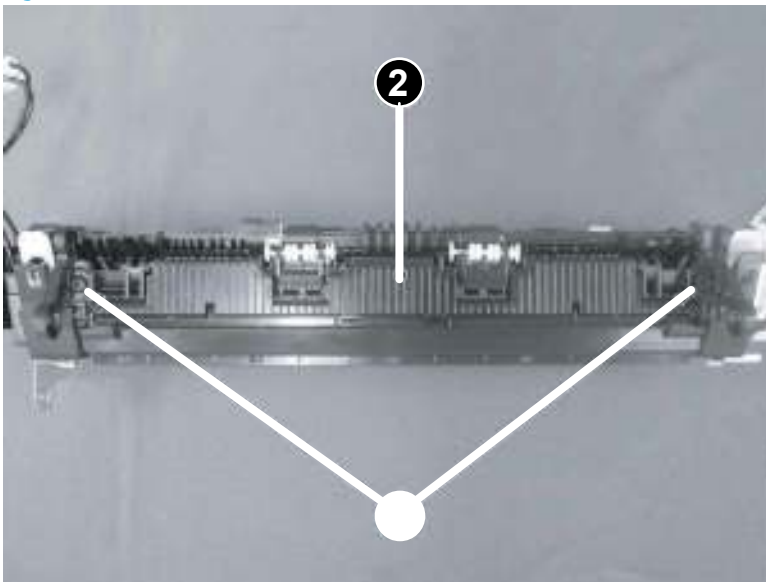
3. Release the wire harnesses (callout 2) from the guides (callout 1).

Figure 1-268 Release the wire harnesses



4. Remove two screws (callout 1), and then remove the fuser cover (callout 2).

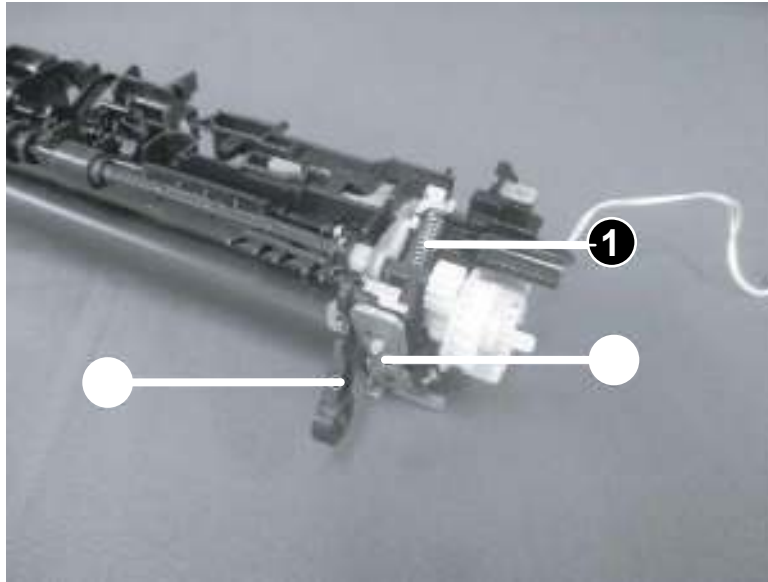
Figure 1-269 Remove the fuser cover



5. Do the following:
 - a. Release one spring (callout 1).
 - b. Remove the pressure plate (callout 2).

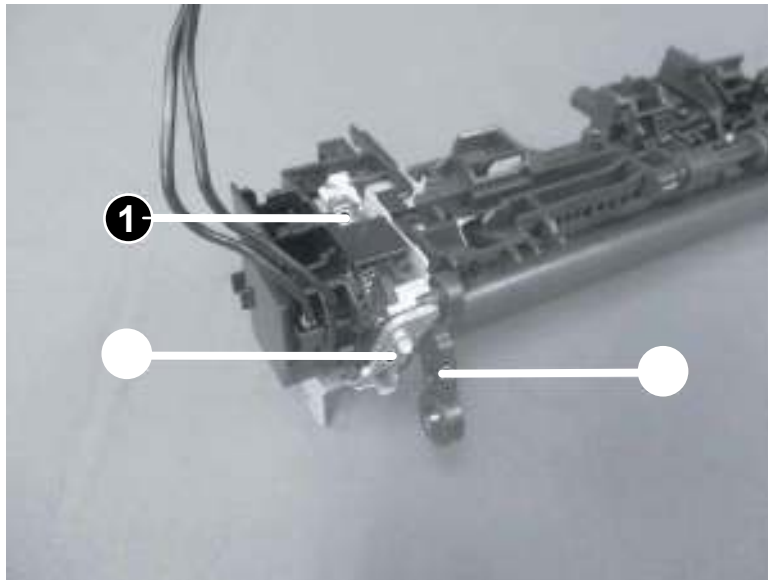
- c. Remove the pressure release lever (callout 3).

Figure 1-270 Remove the pressure plate and lever



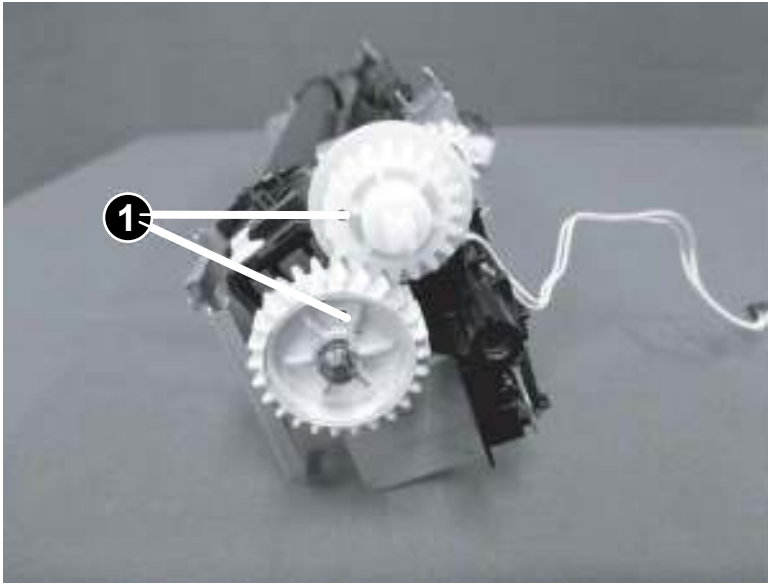
- 6. Do the following:
 - a. Release one spring (callout 1).
 - b. Remove the pressure plate (callout 2).
 - c. Remove the pressure release lever (callout 3).

Figure 1-271 Remove the pressure plate and lever



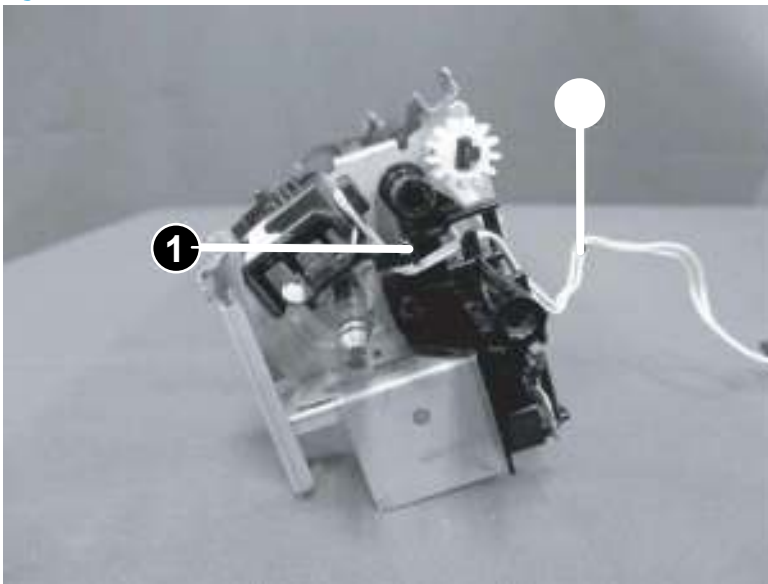
7. Remove two gears (callout 1).

Figure 1-272 Remove the gears



8. Release the wire harness (callout 2) from the guide (callout 1).

Figure 1-273 Release the wire harness



9. Remove the fuser film assembly (callout 1).


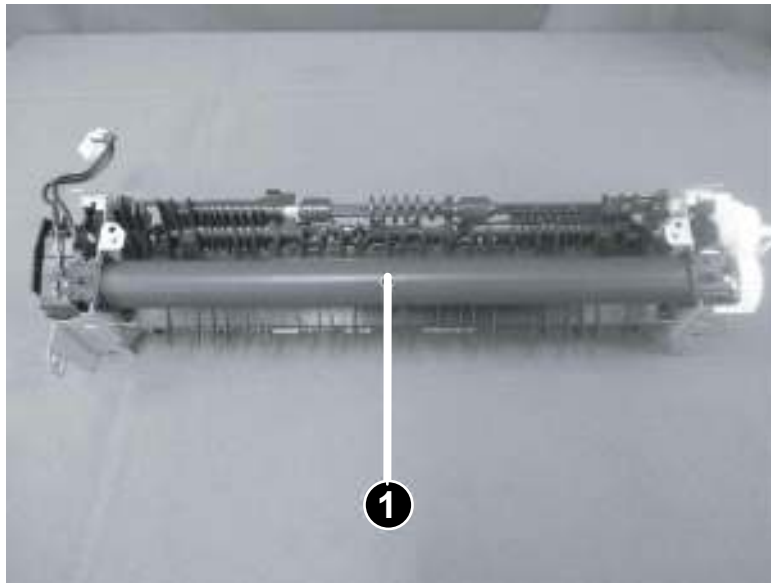

 **Reinstallation tip:** Reverse the removal steps to install the assembly.

Figure 1-274 Remove the fuser film assembly



Step 7: Unpack the replacement assembly

1. Dispose of the defective part.

 **NOTE:** HP recommends responsible disposal of the defective part.

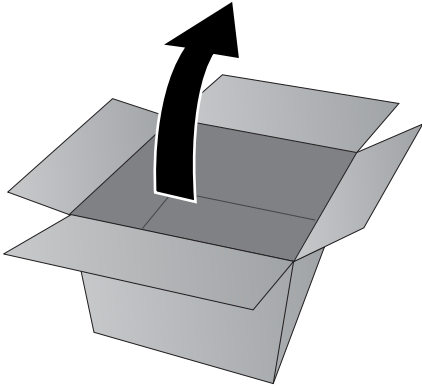
www.hp.com/recycle



2. Unpack the replacement part from the packaging.

⚠ CAUTION: If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands or before touching rollers or pads.

📋 IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.



Remove and replacement: Fuser film assembly (MFP M28-M31)

- [Introduction](#)
- [Step 1: Remove the formatter cover \(MFP M28-M31\)](#)
- [Step 2: Remove the image scanner \(MFP M28-M31\)](#)
- [Step 3: Remove the top cover \(MFP M28-M31\)](#)
- [Step 4: Remove the lower cover \(MFP M28-M31\)](#)
- [Step 5: Remove the fuser \(MFP M28-M31\)](#)
- [Step 6: Remove the fuser film assembly](#)
- [Step 7: Unpack the replacement assembly](#)

Introduction

This document provides the procedures to remove and replace the fuser film assembly (M14-M17).



IMPORTANT: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Before performing service

- Turn the printer power off.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts

Fuser film assembly part number	
RM2-2132-000CN	Fuser film assembly (110-127V)
RM2-2130-000CN	Fuser film assembly (220-240V)

Required tools

- #2 Phillips screwdriver with a magnetic tip
- Small flat-blade screw driver (optional)

After performing service

- Turn the printer power on.

Post service test

Send a job to the printer, and then verify that print quality is acceptable.

Step 1: Remove the formatter cover (MFP M28-M31)

- ▲ Position the printer front side down.

Remove two screws (callout 1), and then remove the formatter cover (callout 2).


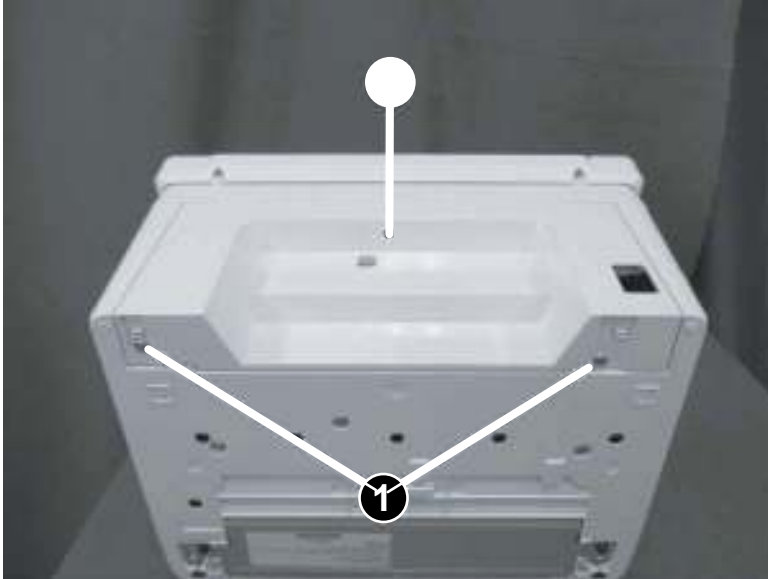
 **Reinstallation tip:** Reverse the removal steps to install the assembly.

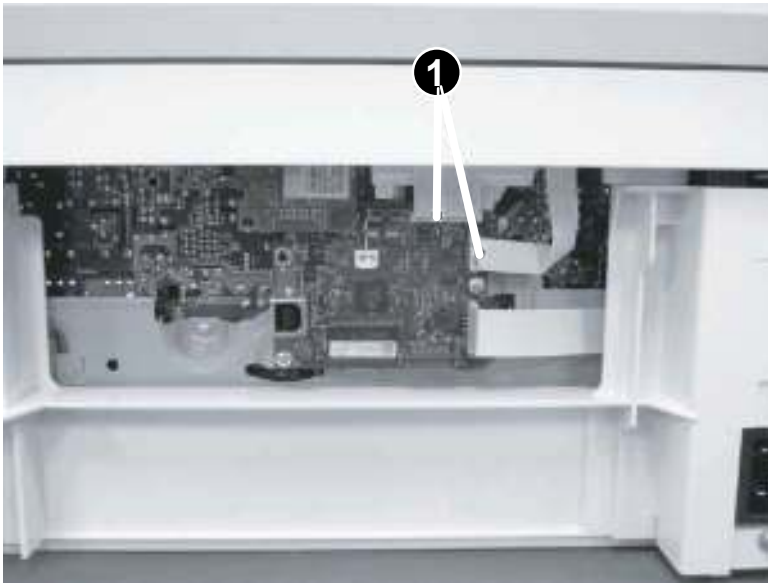
Figure 1-275 Remove the formatter cover (MFP M28-M31)



Step 2: Remove the image scanner (MFP M28-M31)

1. Disconnect two flat flexible cables (FFCs) (callout 1).

Figure 1-276 Disconnect two FFCs

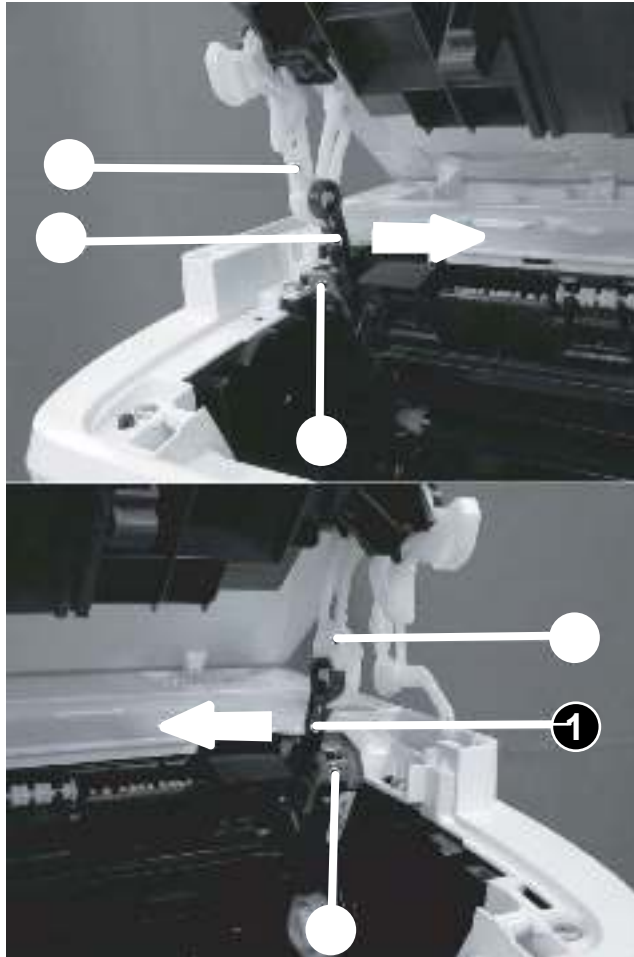


2. Before proceeding, take note of the following disassembly instructions.

When removing the link arm (callout 2) from the pressure release lever (callout 1), the pressure plate (callout 3) might be deformed if the pressure release lever moves in the direction shown below.

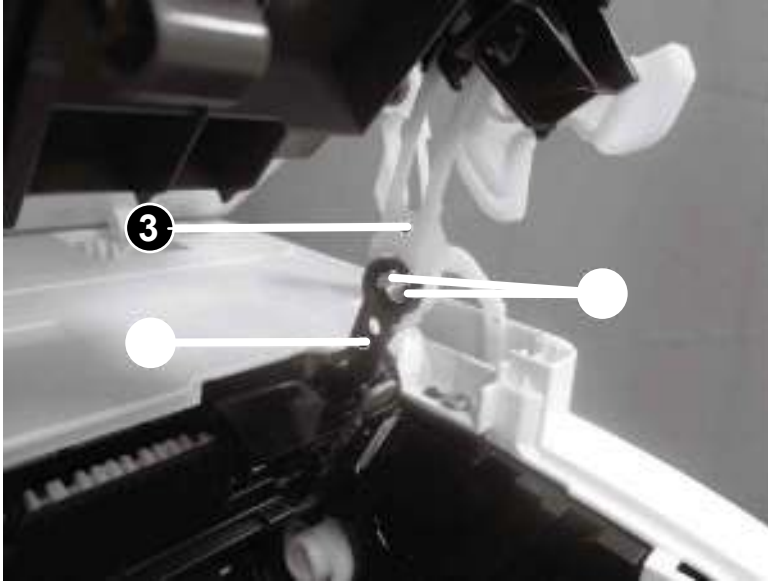
 **CAUTION:** Do not deform the pressure plate.

Figure 1-277 Special disassembly instructions



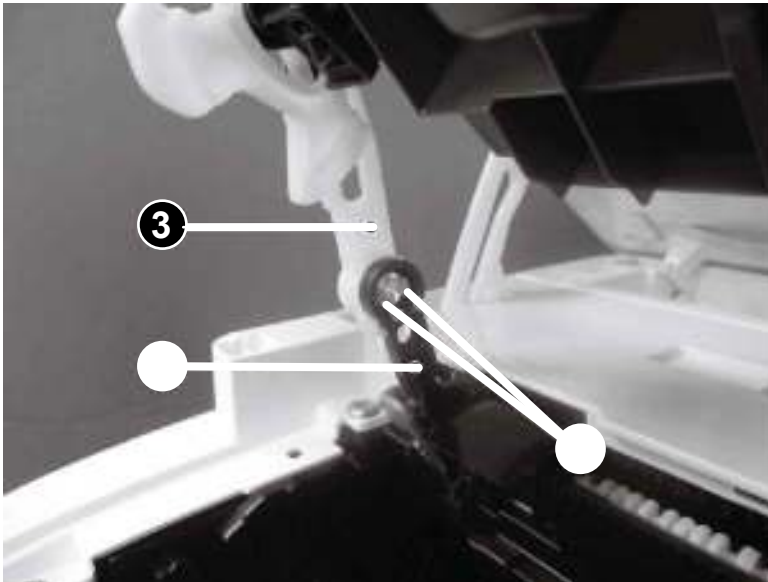
3. Open the image scanner, release two tabs (callout 1), remove one link arm (callout 3) from the pressure release lever (callout 2).

Figure 1-278 Remove the link arm



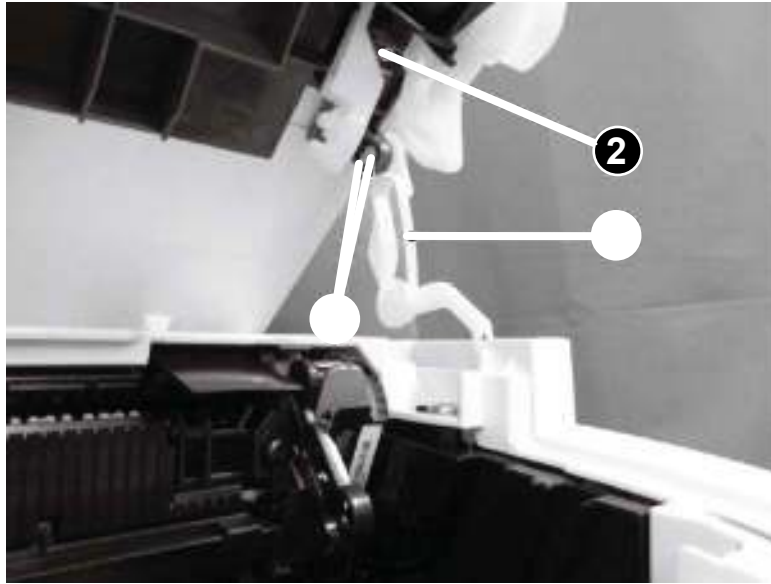
4. Release two tabs (callout 1), and then remove one link arm (callout 3) from the pressure release lever (callout 2).

Figure 1-279 Remove the link arm



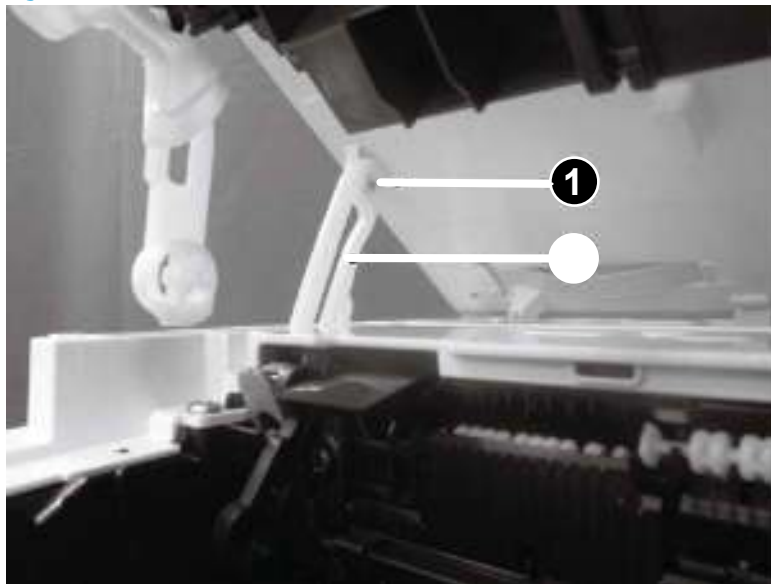
5. Release two tabs (callout 1), and then remove one link arm (callout 3) from the cartridge door (callout 2).

Figure 1-280 Remove the link arm



6. Remove one link arm (callout 2) from the shaft (callout 1).

Figure 1-281 Remove the link arm

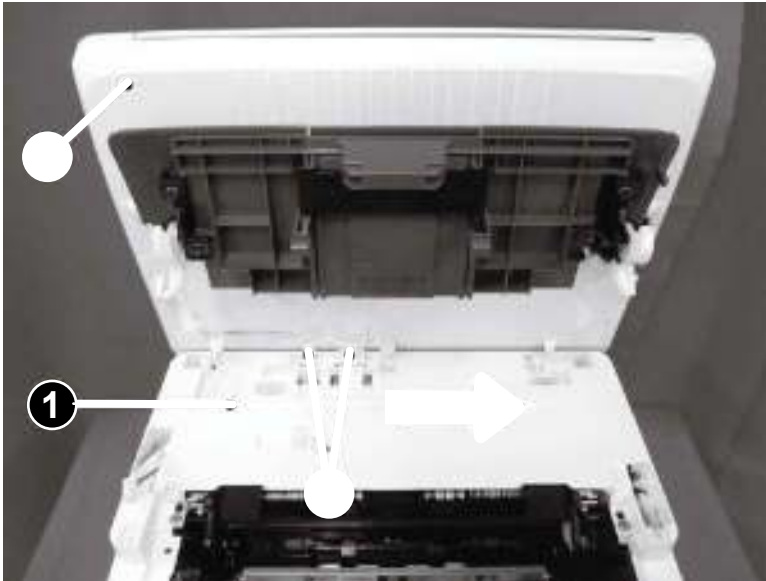


7. Pull two flat-flexible cables (FFCs) (callout 2) out and away from the top cover (callout 1), and then slide the image scanner (callout 3) as shown below to remove it.

CAUTION: Do not damage the FFCs.

Reinstallation tip: Reverse the removal steps to install the assembly.

Figure 1-282 Remove the image scanner

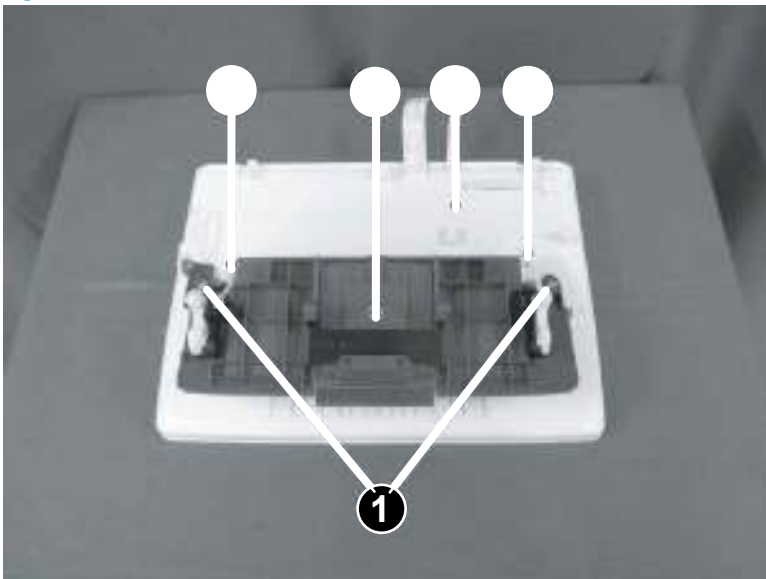


8. For a replacement image scanner, do the following:

NOTE: If the image scanner is removed to access other assemblies, skip this step.

- Remove two screws (callout 1).
- Remove the cartridge door (callout 3) (with the link arms; callout 4) from the image scanner (callout 2).

Figure 1-283 Remove the cartridge door



Step 3: Remove the top cover (MFP M28-M31)

1. Remove two screws (M3; callout 1), remove seven screws (M4; callout 2), release one tab (callout 3), and then remove the top cover (callout 4).


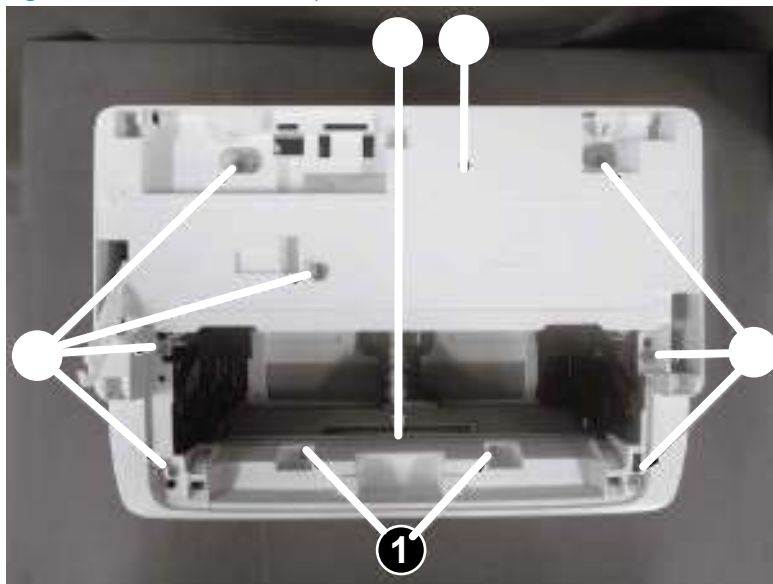

 **Reinstallation tip:** Reverse the removal steps to install the assembly.

Figure 1-284 Remove the top cover



2. Reverse the removal steps to install the assembly. Also use the following special installation instructions.

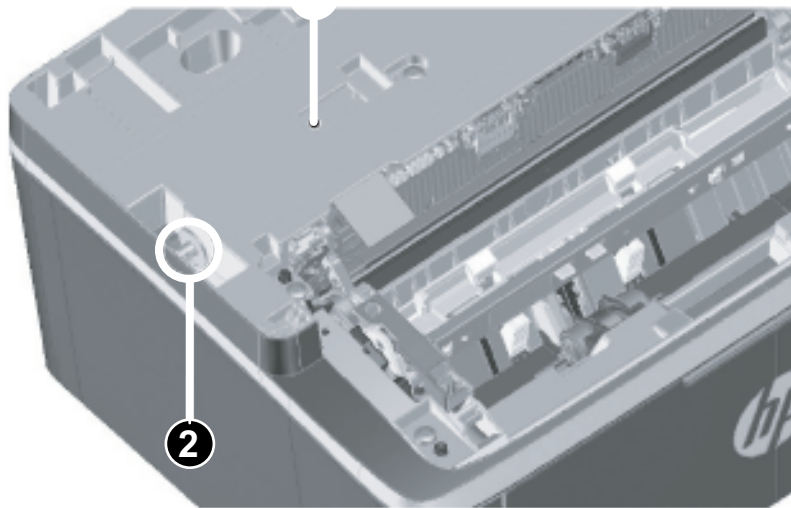
 **NOTE:** Continue to reverse the removal steps to finish installing the assembly.

 **TIP:** If the top cover is removed to access other assemblies, skip this step.

Special installation instructions: Top cover

- ▲ Remove the pad (callout 2) from the top cover (callout 1), and then install it on the replacement top cover.

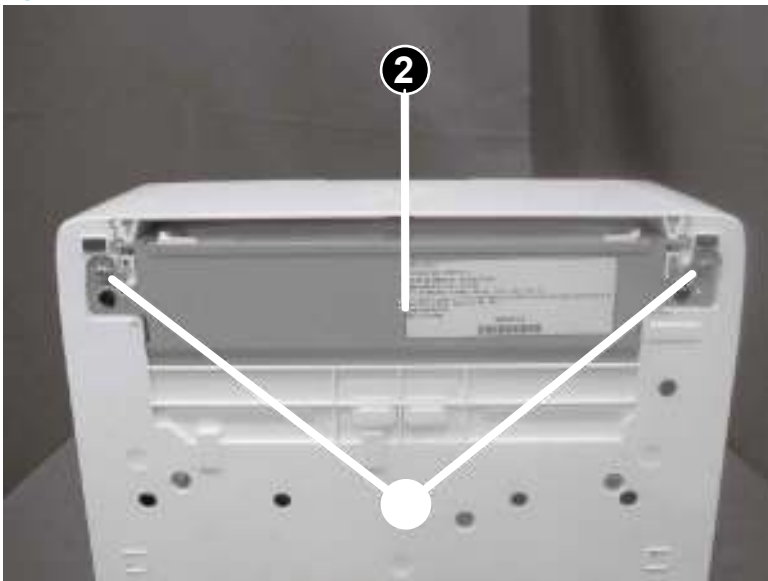
Figure 1-285 Install the pad



Step 4: Remove the lower cover (MFP M28-M31)

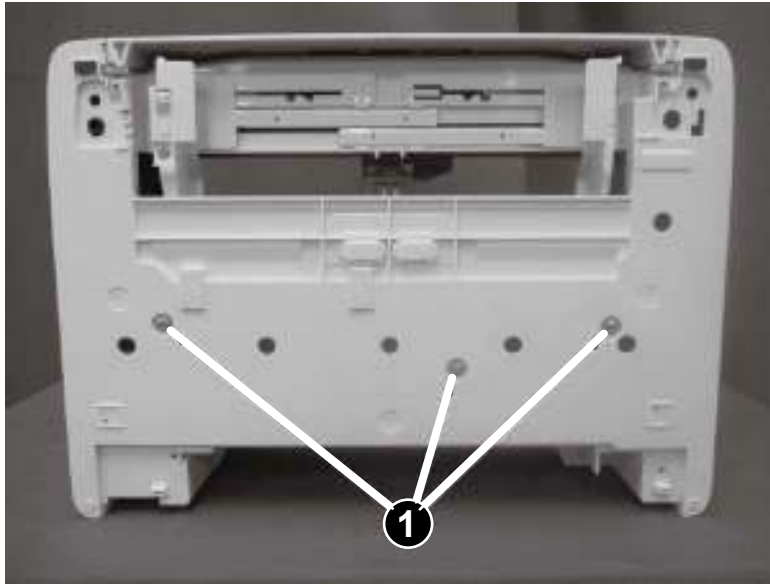
1. Position the printer rear side down, remove two screws (callout 1), and then remove the lower plate (callout 2)

Figure 1-286 Remove the lower plate



2. Remove three screws (callout 1).

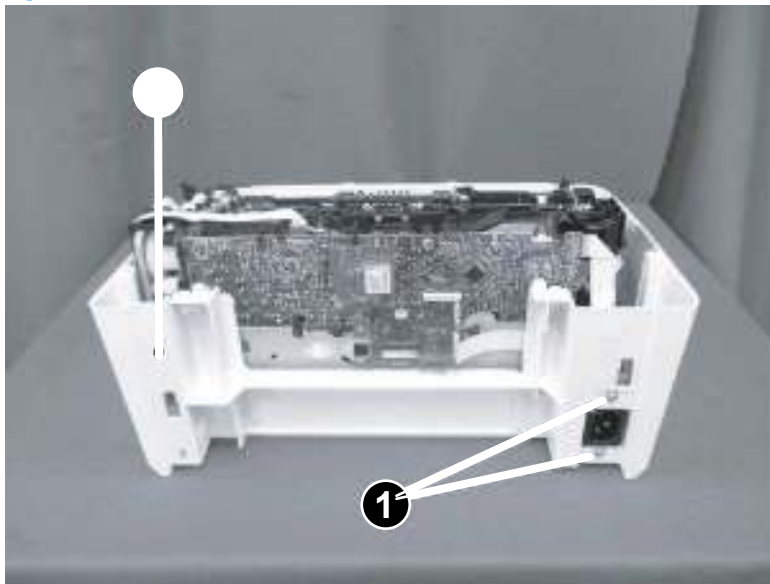
Figure 1-287 Remove three screws



3. Remove two screws (callout 1), and then remove the lower cover (callout 2).

 **Reinstallation tip:** Reverse the removal steps to install the assembly.

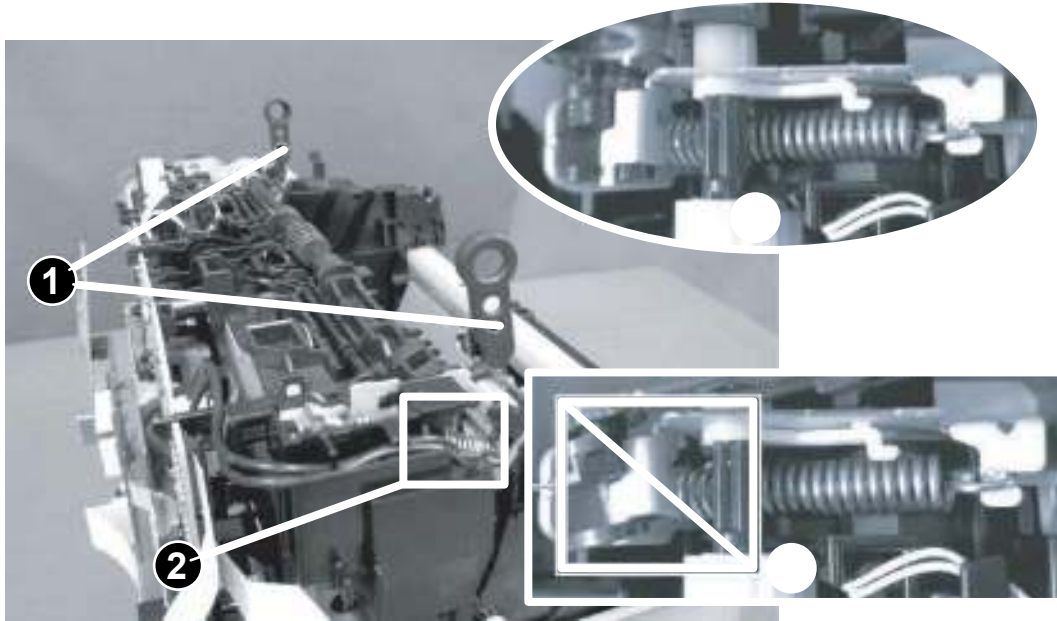
Figure 1-288 Remove the lower cover



Step 5: Remove the fuser (MFP M28-M31)

1. When removing the fuser do not rotate the pressure release levers (callout 1) too far or the side plates (callout 2; left side shown) can be deformed.
 - **Callout 3:** Correct pressure lever rotation and side plate position.
 - **Callout 4:** Incorrect pressure lever rotation and side plate position.

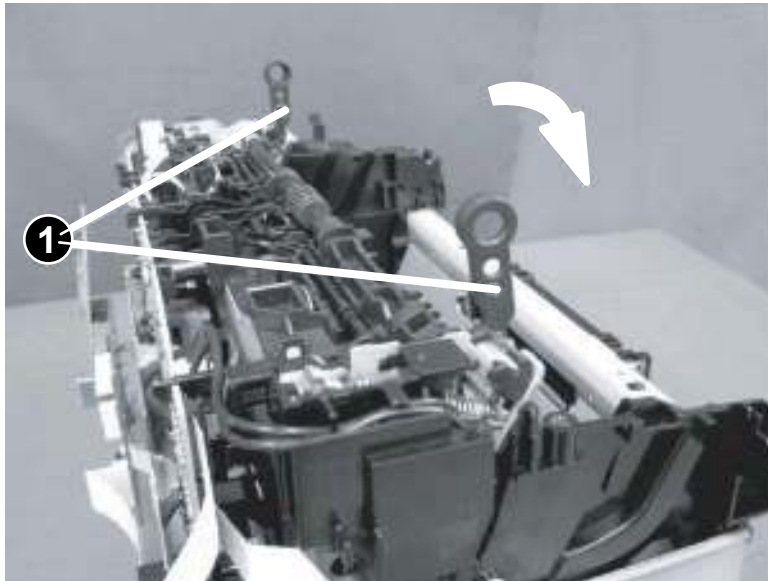
Figure 1-289 Pressure release lever



2. Rotate the pressure release levers (callout 1) (in the direction shown below) until they hang loose.

⚠ CAUTION: Do not damage the side plates when rotating the pressure release levers.

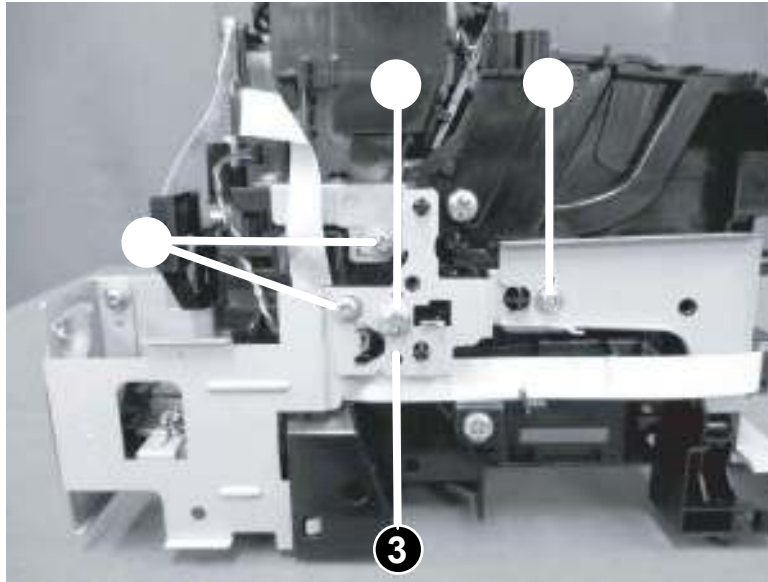
Figure 1-290 Rotate the pressure release levers



3. Do the following:
 - a. Remove three screws (M3; callout 1).
 - b. Remove one screw (M4; callout 2).

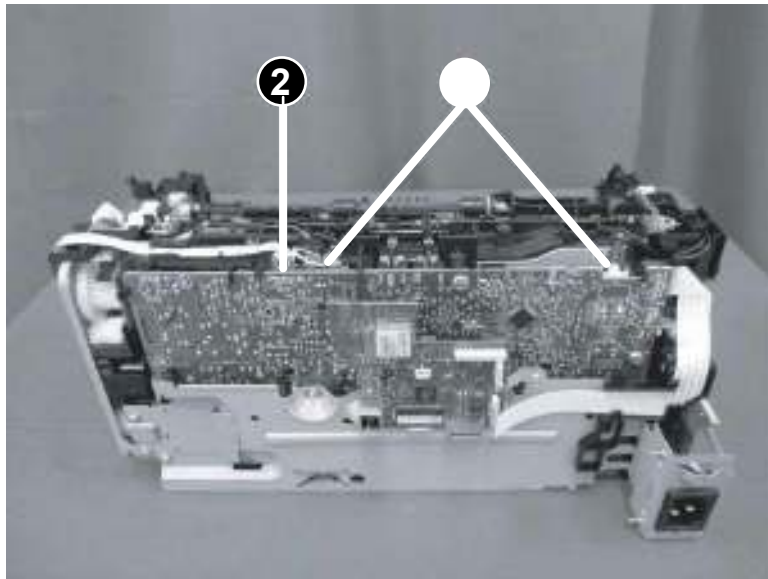
- c. Remove the plate (callout 3).

Figure 1-291 Remove the plate



- 4. Do the following:
 - a. Disconnect two connectors (callout 1).
 - b. Remove one FFC (callout 2).

Figure 1-292 Disconnect two connectors



5. Release the FFC (callout 2) from the guide (callout 1), and then unhook one spring (callout 3).


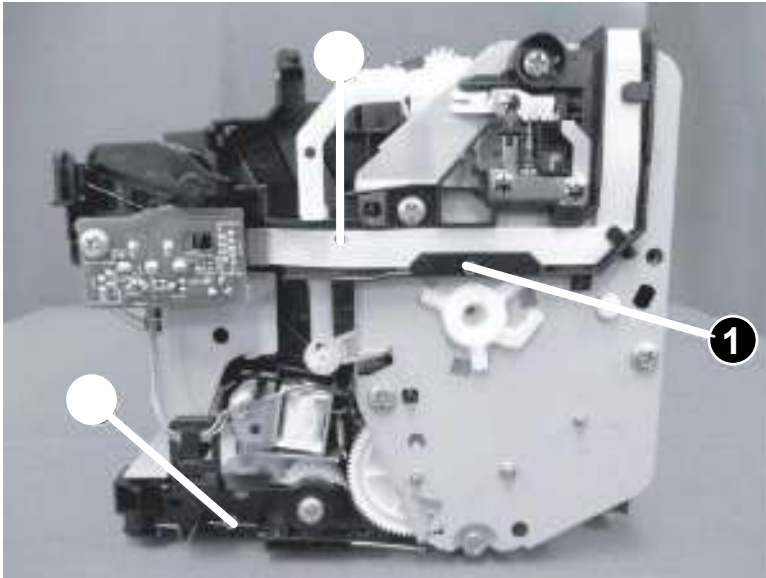
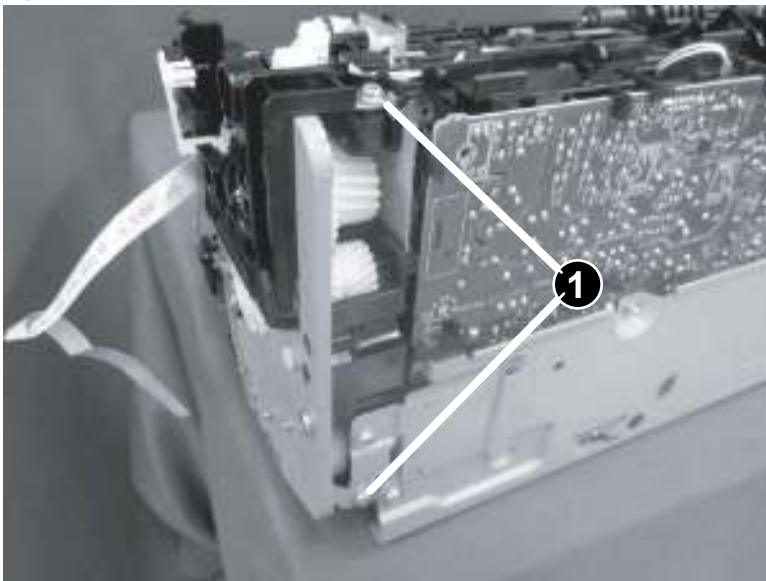
 **Reinstallation tip:** To reinstall the spring, see [Special installation instructions: Fuser \(M28-M31\)](#) on page 205.

Figure 1-293 Release the FFC and spring



6. Remove two screws (callout 1).

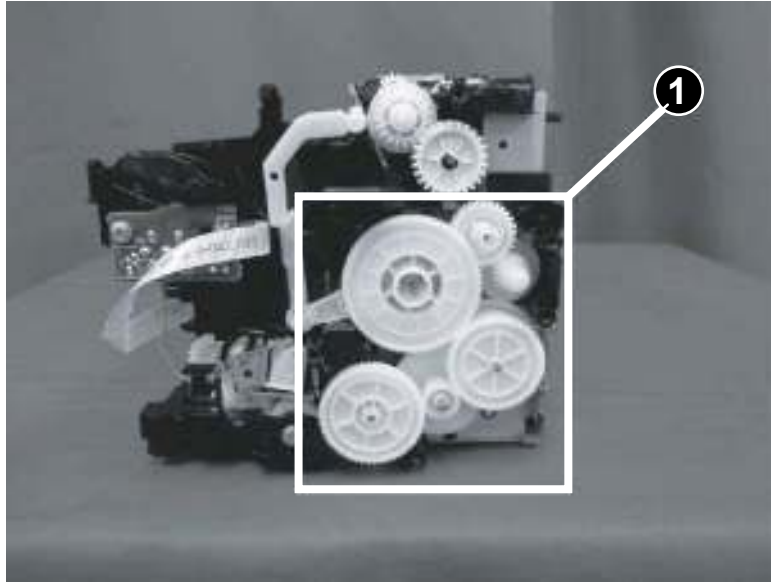
Figure 1-294 Remove two screws



7. Before proceeding, take note of the following disassembly instructions:

At the right side of the printer, the gears (callout 1) and springs (callout 1) are held in place by a plate (shown removed). Since they are not captive, be careful when removing the plate, or the gears and springs might fall off the printer.

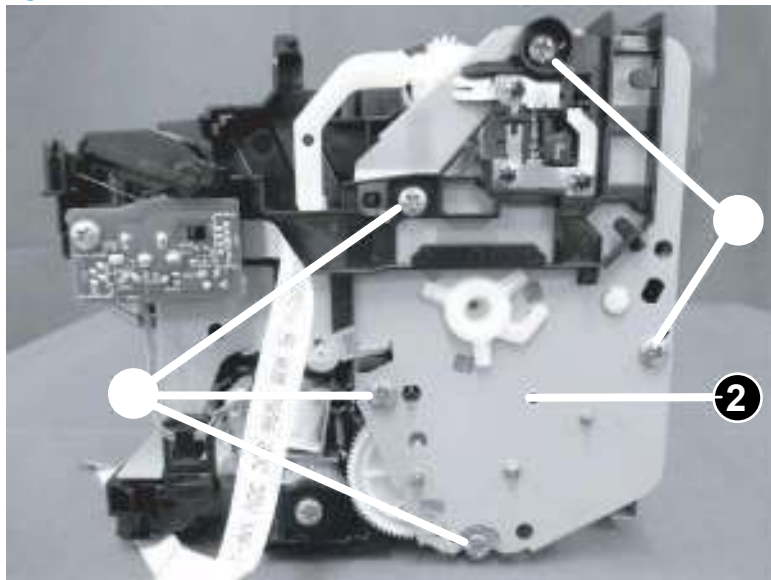
Figure 1-295 Right side gears and springs



8. Remove five screws (callout 1), and then remove the plate (callout 2).

CAUTION: The gears and springs behind the plate are not captive.

Figure 1-296 Remove the plate



9. Do the following:
- Remove three screws (callout 1).
 - Lift up the fuser (callout 2).

- c. Slide the fuser (callout 2) as shown below, and then remove it.


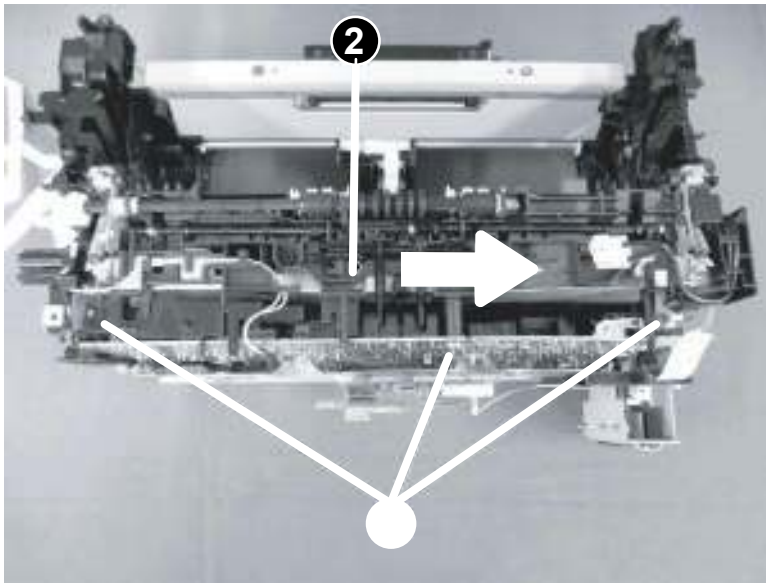
 **Reinstallation tip:** Reverse the removal steps to install the assembly.

Figure 1-297 Remove the fuser



10. Reverse the removal steps to install the assembly. Also use the following special installation instructions.

Special installation instructions: Fuser (M28-M31)

- ▲ Make sure the spring (callout 1) is firmly held in its original position when it is reinstalled.


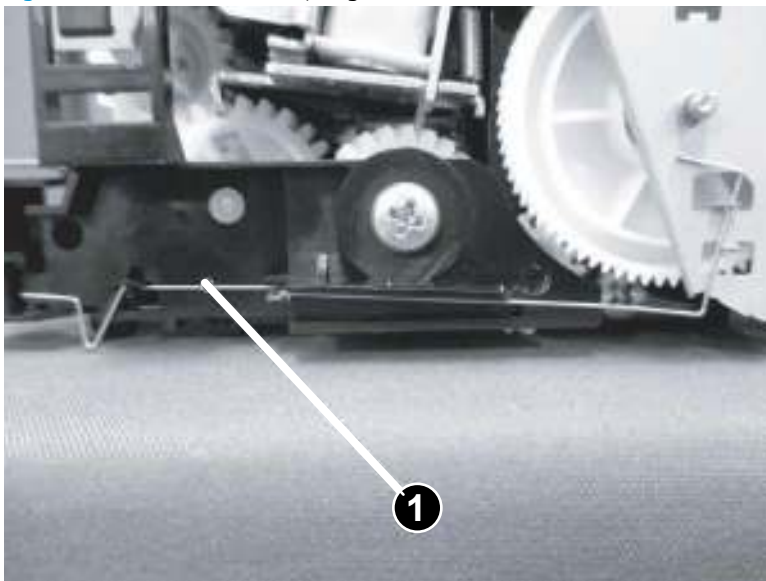
 **CAUTION:** Do not deform the spring when it is reinstalled.

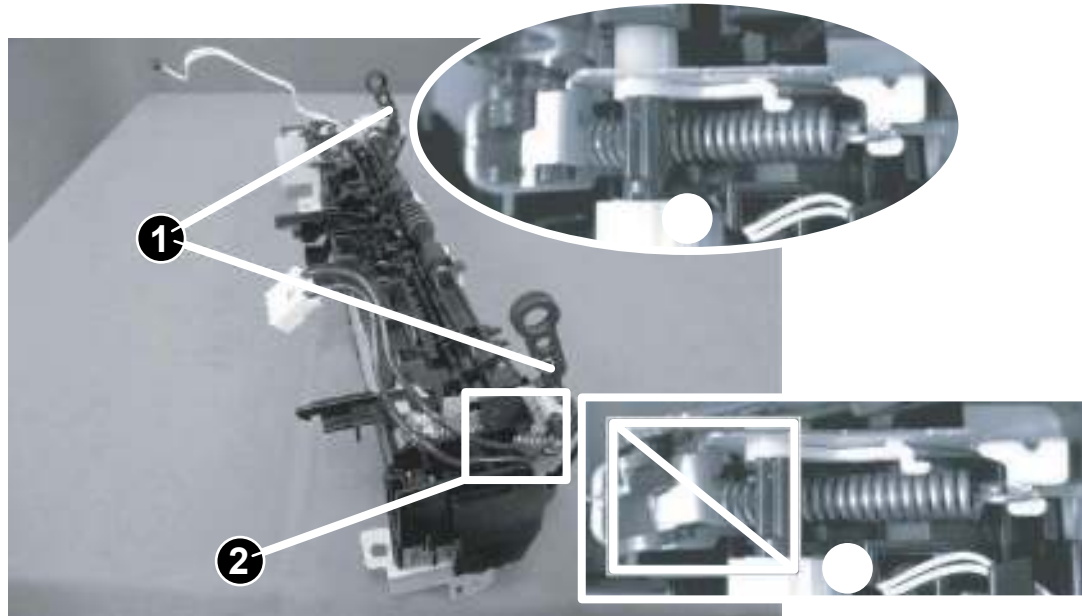
Figure 1-298 Reinstall the spring (lower)



Step 6: Remove the fuser film assembly

1. When removing the fuser film do not rotate the pressure release levers (callout 1) too far or the side plates (callout 2; right side shown) can be deformed.
 - **Callout 3:** Correct pressure lever rotation and side plate position.
 - **Callout 4:** Incorrect pressure lever rotation and side plate position.

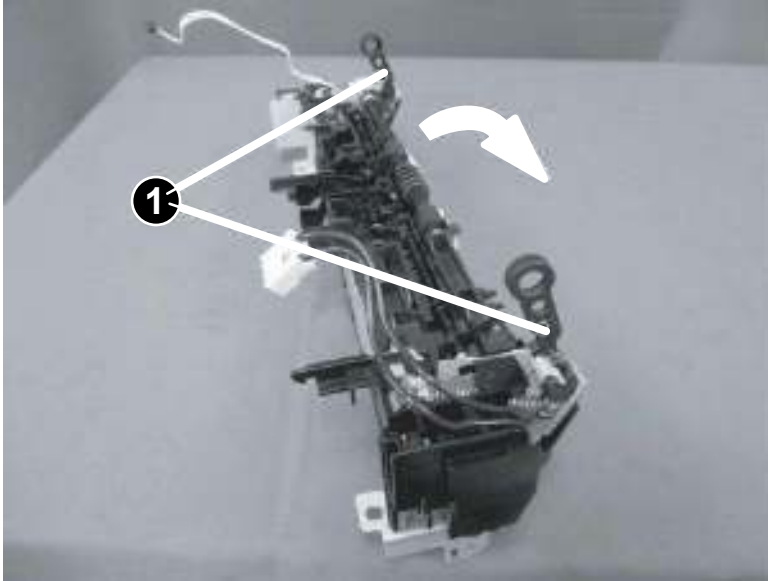
Figure 1-299 Pressure release lever



2. Before proceeding, check the following:
 - If the pressure release levers (callout 1) are positioned upward (as shown below), rotate them in the direction shown until they hang loose.

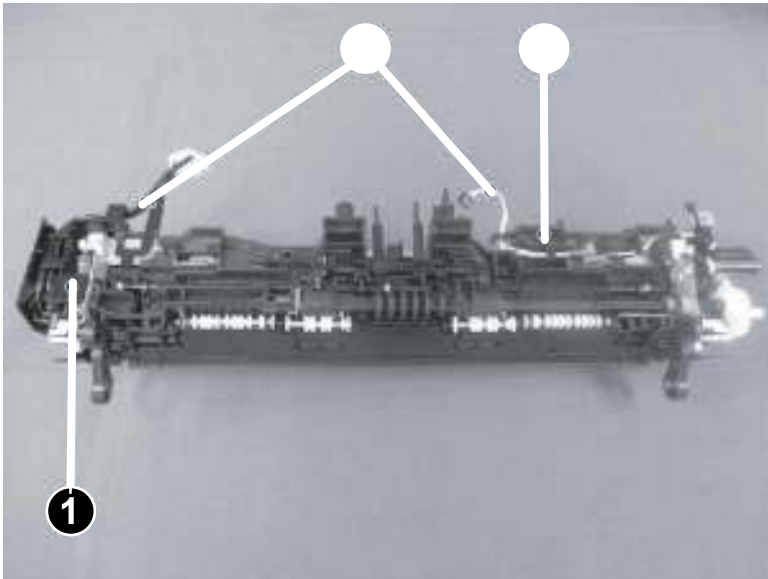
CAUTION: Do not damage the side plates when rotating the pressure release levers.

Figure 1-300 Check the pressure release levers



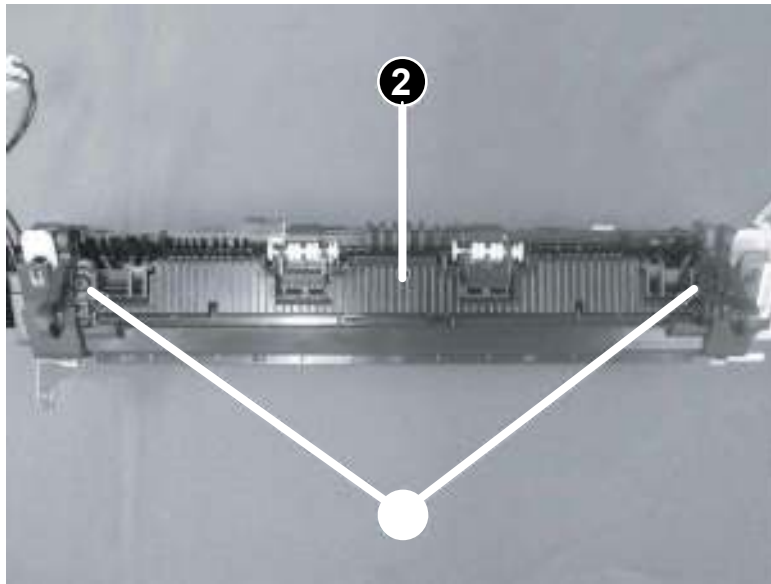
3. Release the wire harnesses (callout 2) from the guides (callout 1).

Figure 1-301 Release the wire harnesses



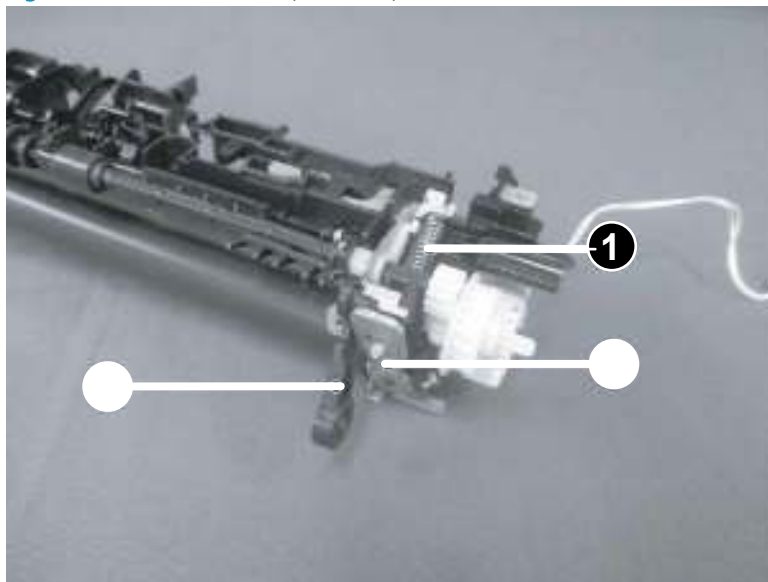
4. Remove two screws (callout 1), and then remove the fuser cover (callout 2).

Figure 1-302 Remove the fuser cover



5. Do the following:
 - a. Release one spring (callout 1).
 - b. Remove the pressure plate (callout 2).
 - c. Remove the pressure release lever (callout 3).

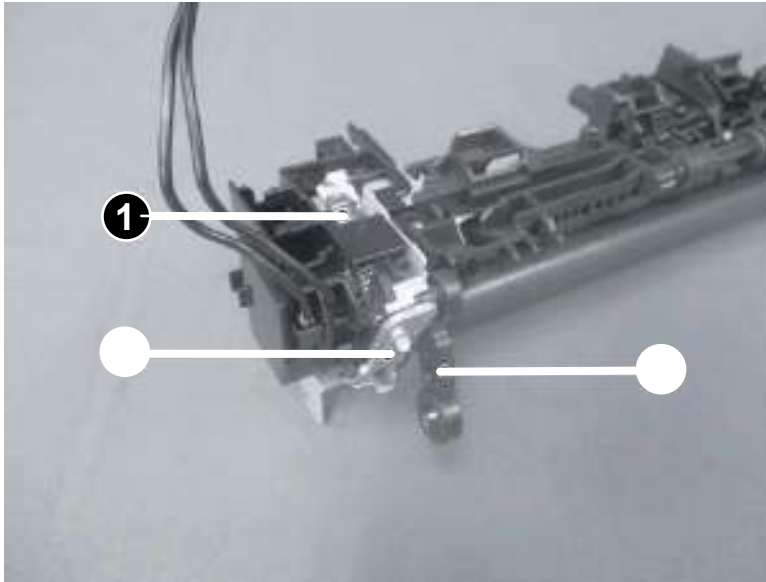
Figure 1-303 Remove the pressure plate and lever



6. Do the following:
 - a. Release one spring (callout 1).
 - b. Remove the pressure plate (callout 2).

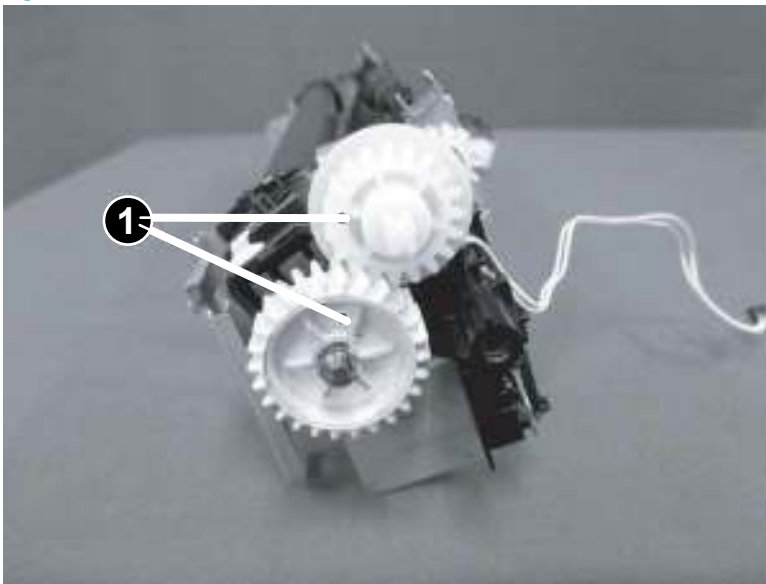
- c. Remove the pressure release lever (callout 3).

Figure 1-304 Remove the pressure plate and lever



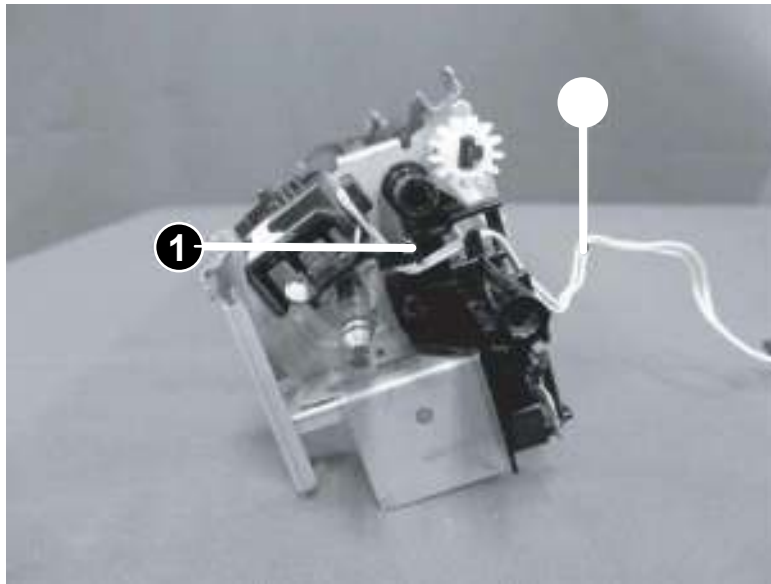
- 7. Remove two gears (callout 1).

Figure 1-305 Remove the gears



8. Release the wire harness (callout 2) from the guide (callout 1).

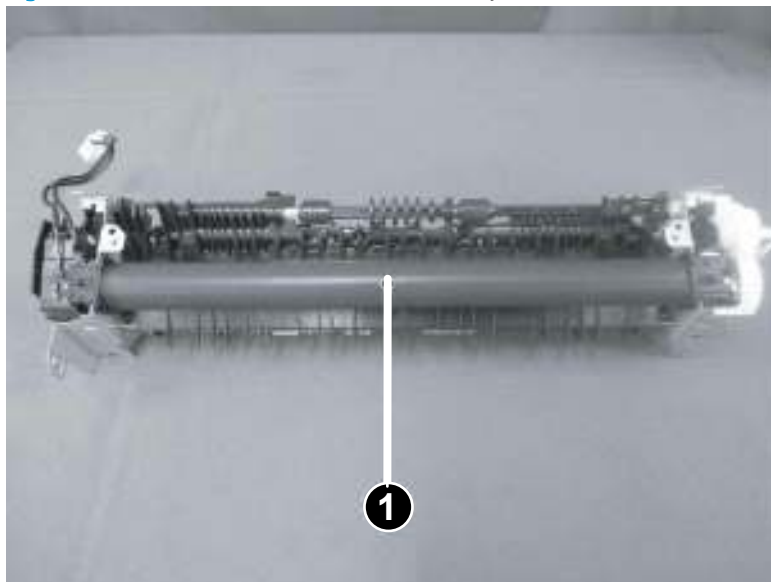
Figure 1-306 Release the wire harness



9. Remove the fuser film assembly (callout 1).

 **Reinstallation tip:** Reverse the removal steps to install the assembly.

Figure 1-307 Remove the fuser film assembly



Step 7: Unpack the replacement assembly

1. Dispose of the defective part.

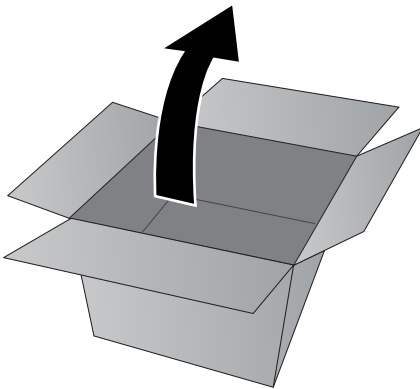
 **NOTE:** HP recommends responsible disposal of the defective part.

www.hp.com/recycle

2. Unpack the replacement part from the packaging.

⚠ CAUTION: If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands or before touching rollers or pads.

📋 IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.



Remove and replacement: Engine controller assembly (M14-M17)

- [Introduction](#)
- [Step 1: Remove the cartridge door \(M14-M17\)](#)
- [Step 2: Remove the formatter cover \(M14-M17\)](#)
- [Step 3: Remove the lower cover \(M14-M17\)](#)
- [Step 4: Remove the engine controller assembly \(M14-M17\)](#)
- [Step 5: Unpack the replacement assembly](#)

Introduction

This document provides the procedures to remove and replace the engine controller assembly (M14-M17).



IMPORTANT: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Before performing service

- Turn the printer power off.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts

Engine controller assembly (M14-M17) part number	
RM3-7388-000CN	Engine controller assembly (base model 220-240V; M14-M17)
RM3-7389-000CN	Engine controller assembly (base EM model 220-240V; M14-M17)
RM3-7390-000CN	Engine controller assembly (wireless model 110-127V; M14-M17)
RM3-7391-000CN	Engine controller assembly (wireless model 220-240V; M14-M17)
RM3-7392-000CN	Engine controller assembly (wireless EM model 220-240V; M14-M17)

Required tools

- #2 Phillips screwdriver with a magnetic tip

After performing service

- Turn the printer power on.

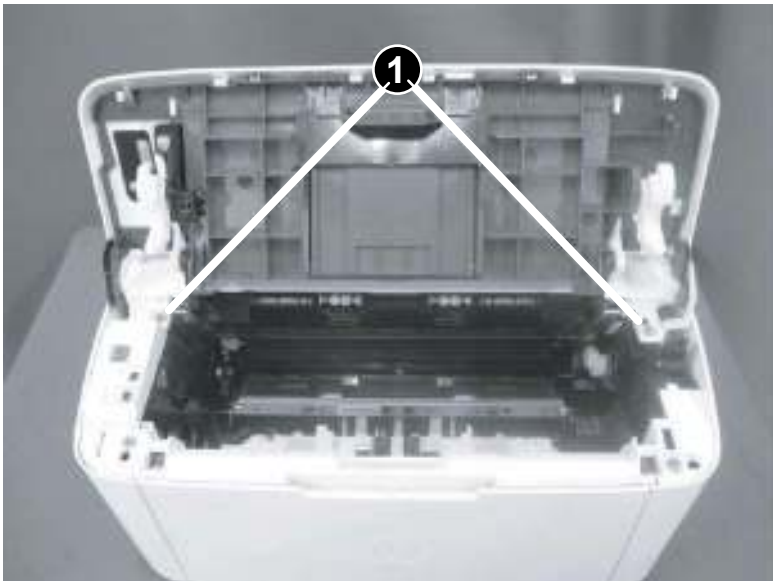
Post service test

Send a job to the printer, and then verify that print quality is acceptable.

Step 1: Remove the cartridge door (M14-M17)

1. Open the cartridge door, and then remove two screws (callout 1).

Figure 1-308 Remove two screw

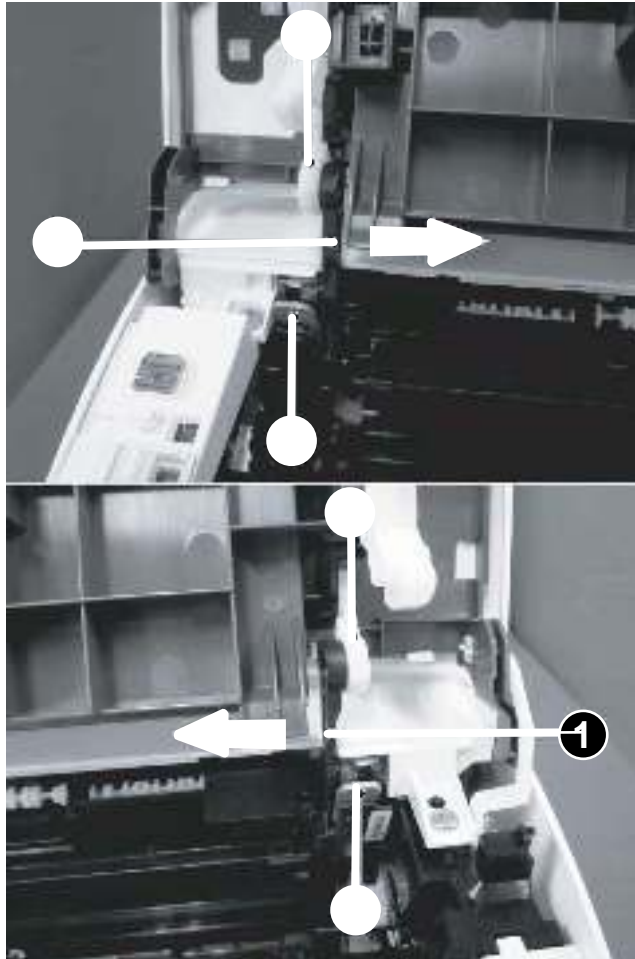


2. Before proceeding, take note of the following disassembly instructions.

When removing the link arm (callout 2) from the pressure release lever (callout 1), the pressure plate (callout 3) might be deformed if the pressure release lever moves in the direction shown below.

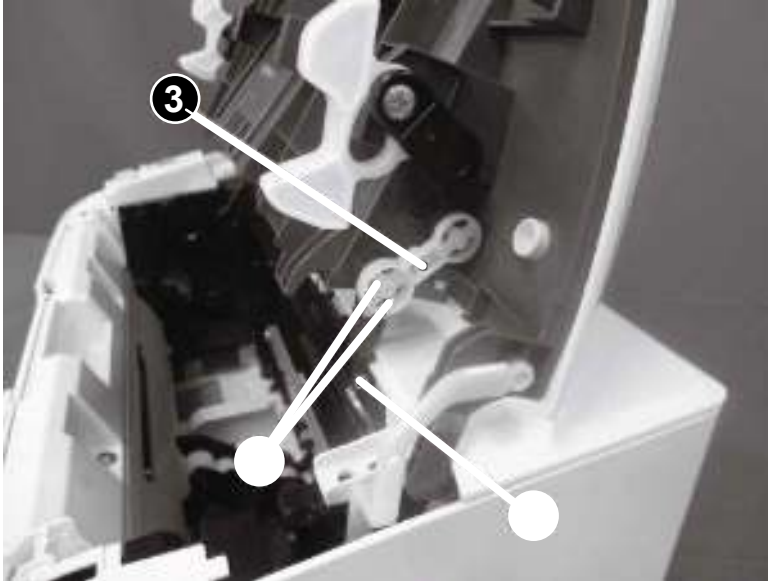
CAUTION: Do not deform the pressure plate.

Figure 1-309 Special disassembly instructions



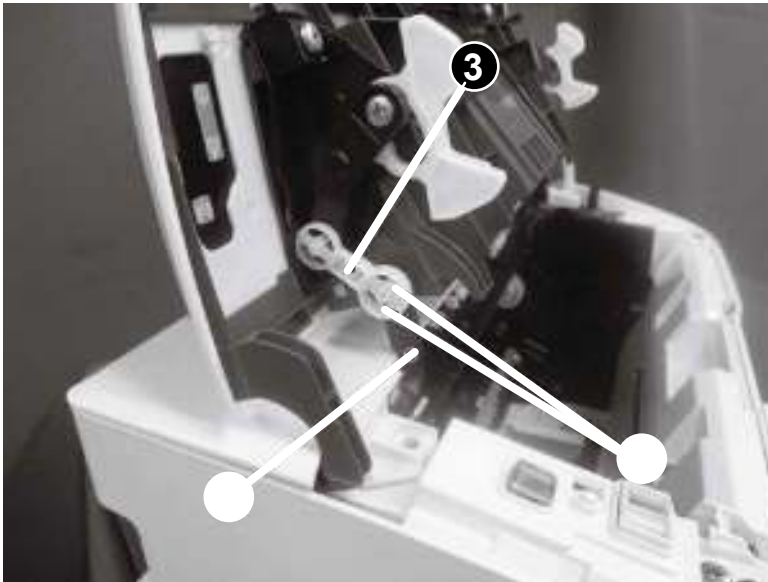
3. Release two tabs (callout 1), and then remove one link arm (callout 3) from the pressure release lever (callout 2).

Figure 1-310 Remove the link arm



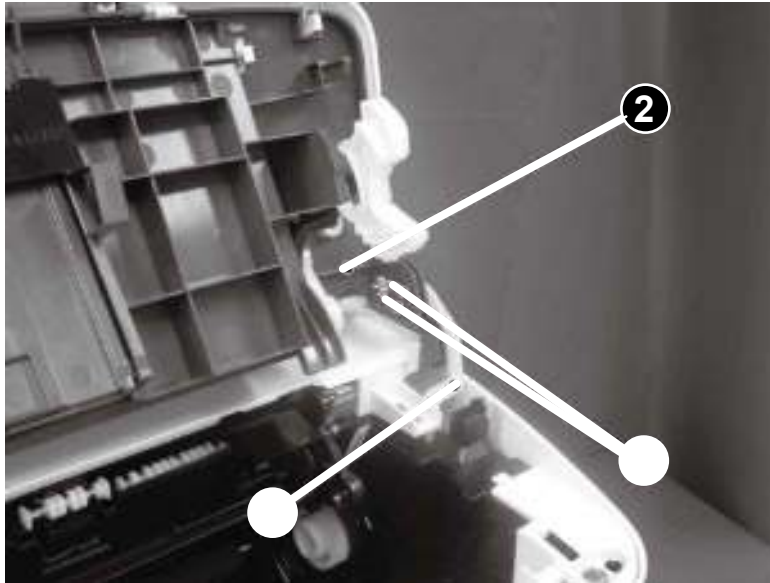
4. Release two tabs (callout 1), and then remove one link arm (callout 3) from the pressure release lever (callout 2).

Figure 1-311 Remove the link arm



5. Release two tabs (callout 1), and then remove one link arm (callout 3) from the cartridge door assembly (callout 2).

Figure 1-312 Remove the link arm



6. Release one tab (callout 1), support the cartridge door (callout 2), and then remove it.

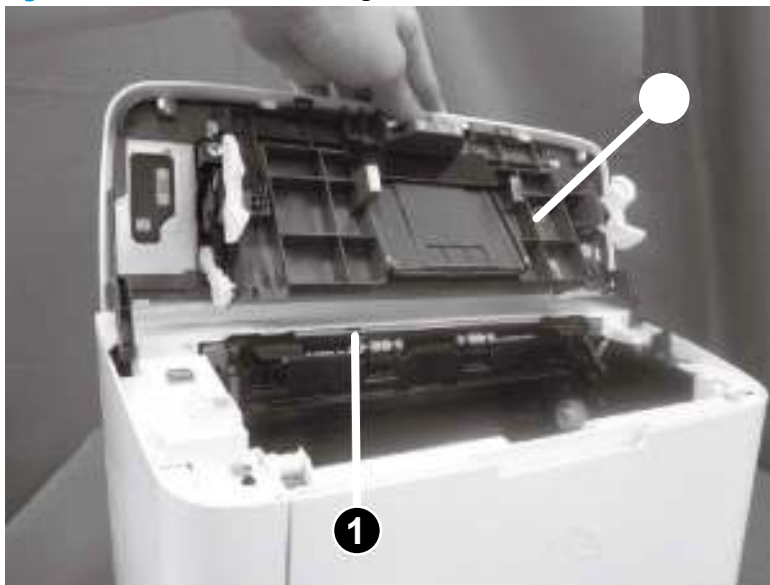


NOTE: If the cartridge door is removed to access other assembly, stop at this step.



Reinstallation tip: Reverse the removal steps to install the door.

Figure 1-313 Remove the cartridge door



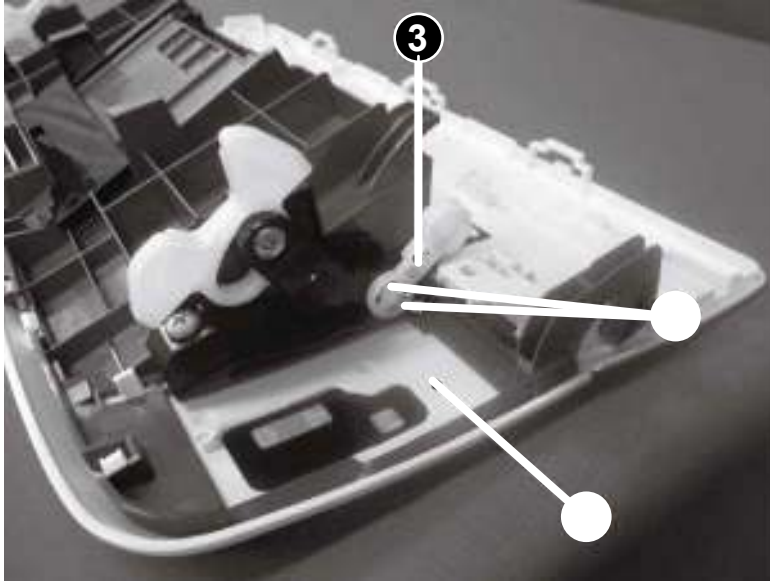
7. **Optional step:** If a replacement cartridge door is being installed, do the following:



NOTE: Install the link arms on the replacement door.

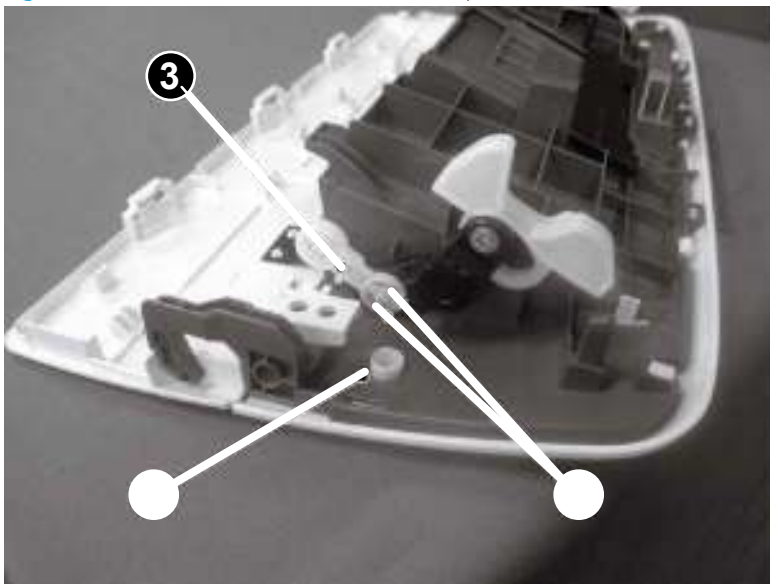
- a. Release two tabs (callout 1), and then remove the one link arm (callout 3) from the door assembly (callout 2).

Figure 1-314 Install the link arms on the replacement door



- b. Release two tabs (callout 1), and then remove the one link arm (callout 3) from the door assembly (callout 2).

Figure 1-315 Install the link arms on the replacement door



Step 2: Remove the formatter cover (M14-M17)

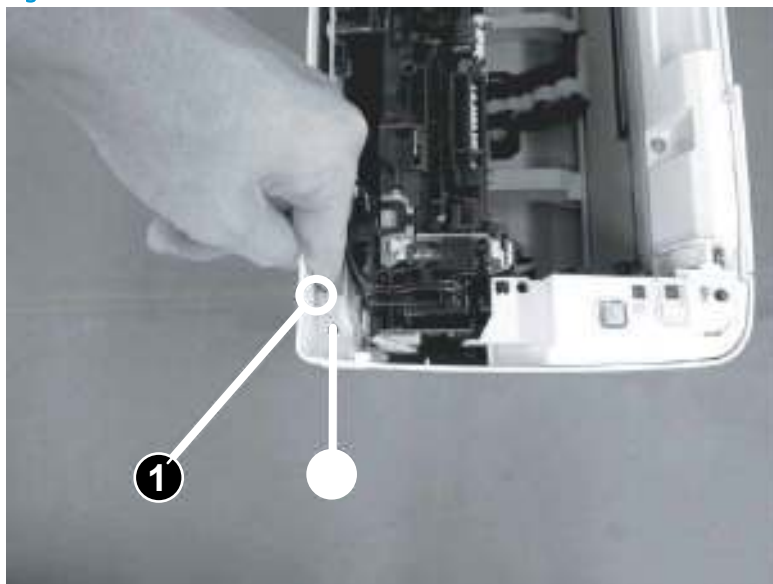
- ▲ Position the printer front side down.

Release one tab (callout 1), and then remove the formatter cover (callout 2).



Reinstallation tip: Reverse the removal steps to install the assembly.

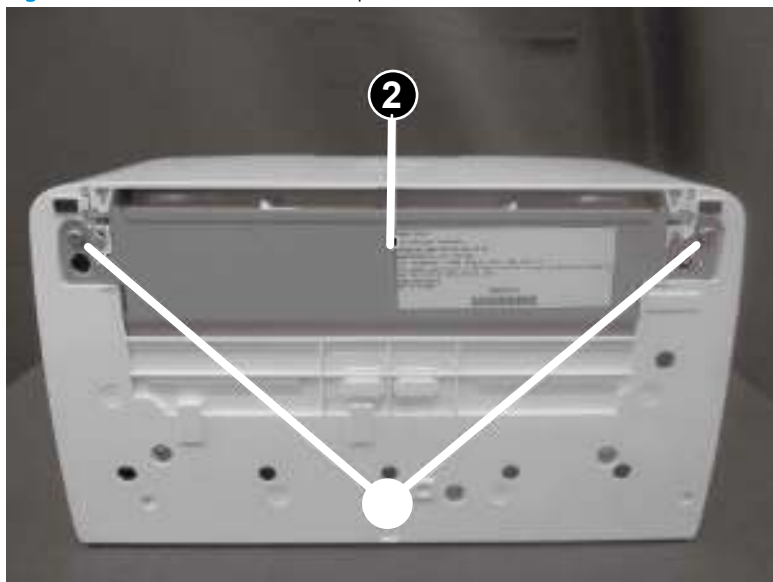
Figure 1-316 Remove the formatter cover (M14-M17)



Step 3: Remove the lower cover (M14-M17)

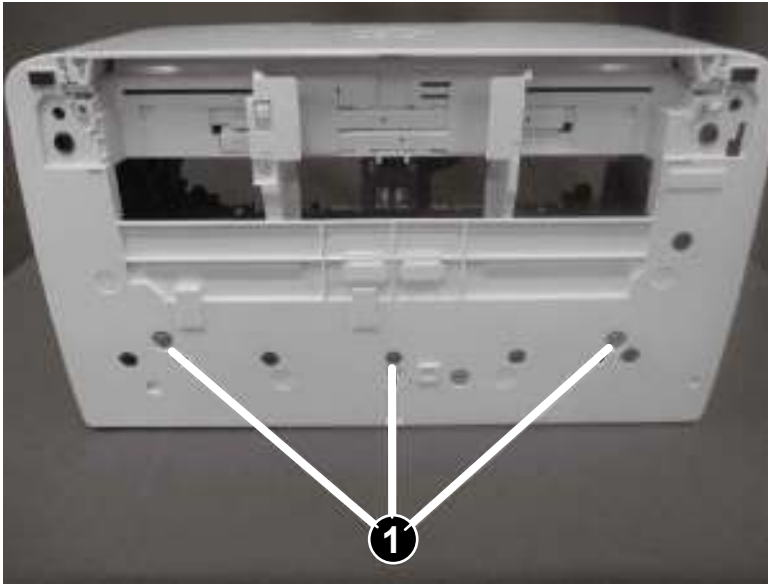
1. Position the printer rear side down, remove three screws (callout 1), and then remove the lower plate (callout 2).

Figure 1-317 Remove the lower plate



2. Remove three screws (callout 1)

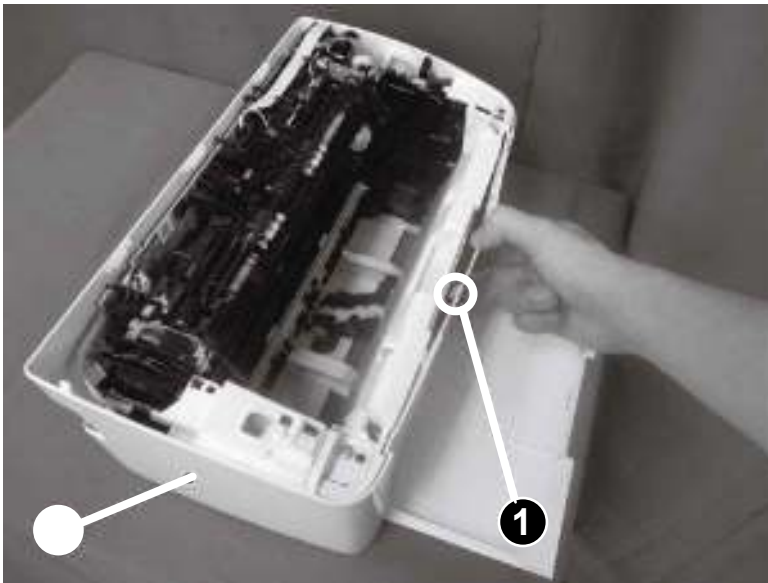
Figure 1-318 Remove the three screws



3. With the printer in the upright position, release one tab (callout 1), and then remove the lower cover (callout 2).

 **Reinstallation tip:** Reverse the removal steps to install the assembly.

Figure 1-319 Remove the lower cover



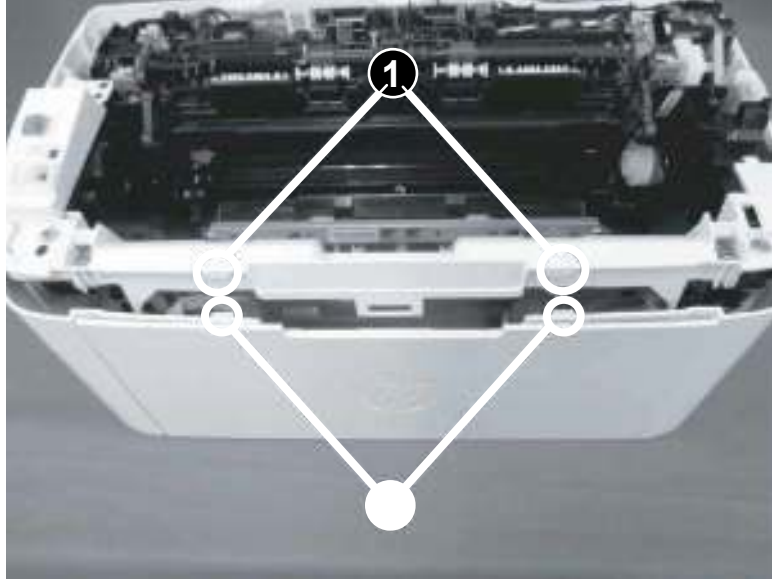
4. Reverse the removal steps to install the assembly. Also use the following special installation instructions.

 **NOTE:** Continue to reverse the removal steps to finish installing the assembly.

Special installation instructions: Lower cover

- ▲ Make sure to fit two ribs (callout 1) on the printer into the grooves (callout 2) in the lower cover.

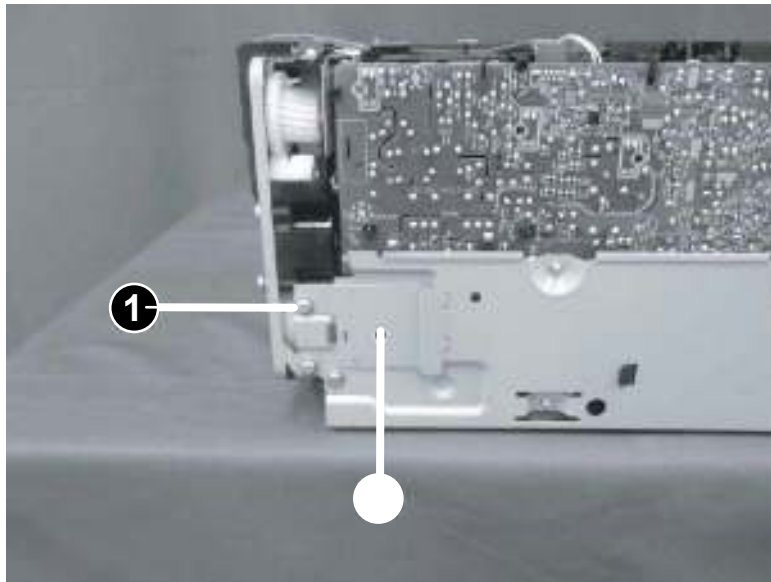
Figure 1-320 Fit two ribs on the printer into the grooves (lower cover install)



Step 4: Remove the engine controller assembly (M14-M17)

1. Do the following:
 - a. Remove one screw (callout 1).
 - b. Remove the motor shield plate (callout 2).

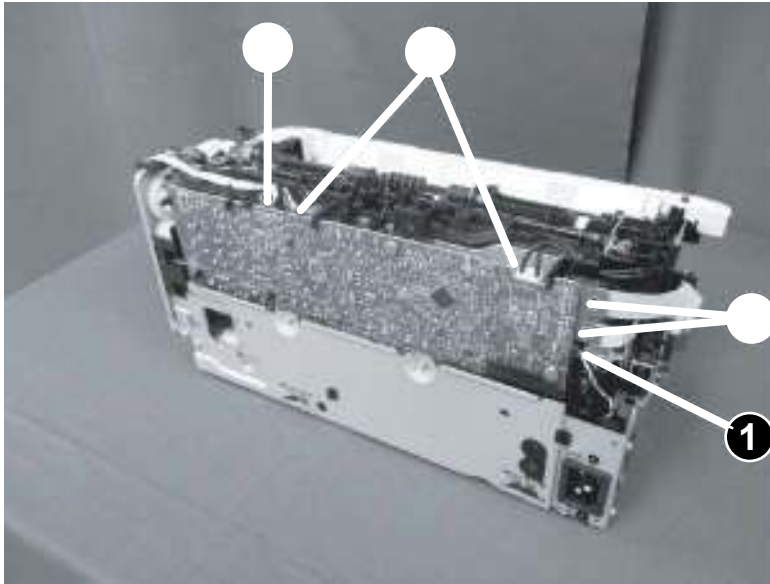
Figure 1-321 Remove the motor shield plate



2. Do the following:
 - a. Disconnect three connectors (callout 1).

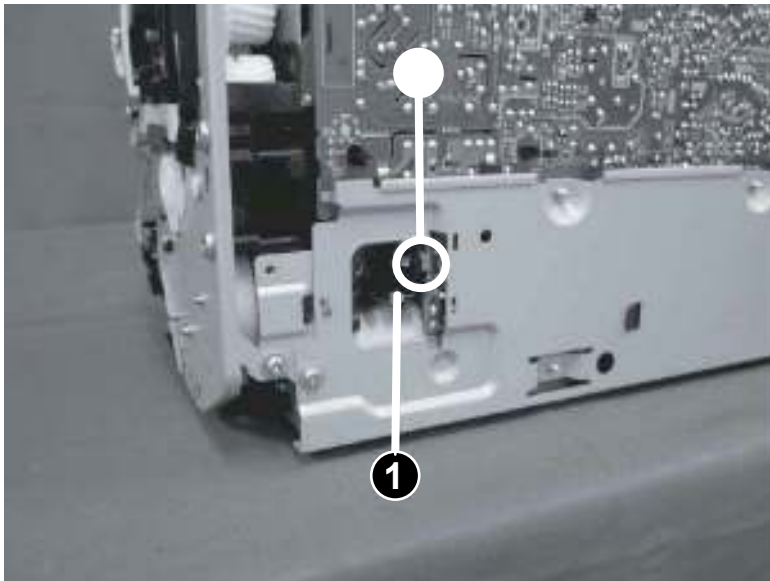
- b. Disconnect three flat flexible cables (FFCs) (callout 2).

Figure 1-322 Disconnect connectors and FFCs



- 3. Do the following:
 - a. Slide the lever (callout 1) towards the left side.
 - b. Disconnect one connector (callout 2).

Figure 1-323 Release the lever and disconnect the connector

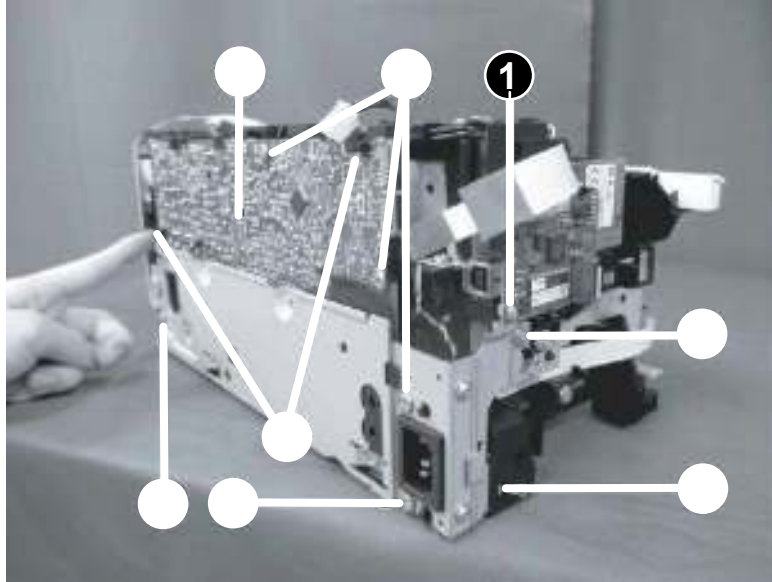


- 4. Do the following:
 - a. Remove one screw (M2.6; callout 1).
 - b. Remove two screws (M3; callout 2).
 - c. Remove four screws (M4; callout 3).

- d. Release three tabs (callout 4).
- e. Remove the engine controller assembly (callout 5).

 **Reinstallation tip:** Reverse the removal steps to install the assembly.

Figure 1-324 Remove the engine controller assembly



5. Reverse the removal steps to install the assembly. Also use the following special installation instructions.

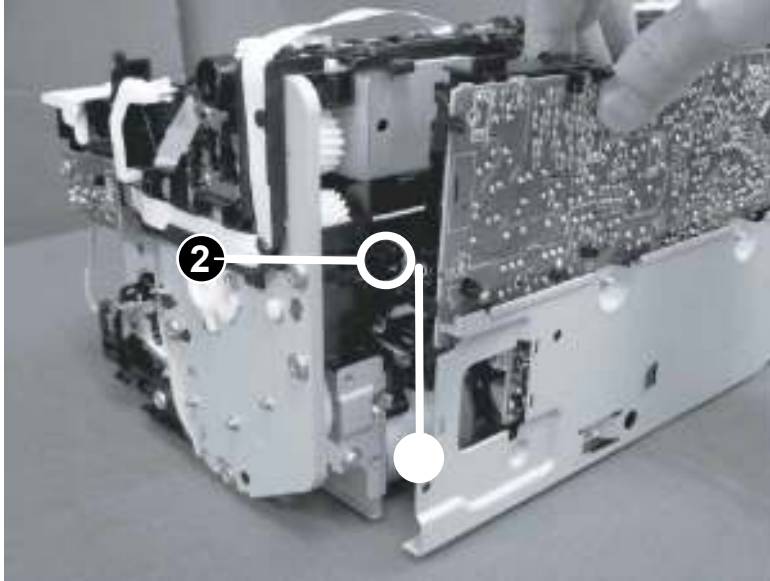
 **NOTE:** Continue to reverse the removal steps to finish installing the assembly.

Special installation instructions: Engine controller assembly

- ▲ Make sure that the spring (callout 1) is installed in the holder (callout 2).

 **CAUTION:** The spring must not be deformed when installing the engine controller assembly.

Figure 1-325 Check the spring



Step 5: Unpack the replacement assembly

1. Dispose of the defective part.



NOTE: HP recommends responsible disposal of the defective part.

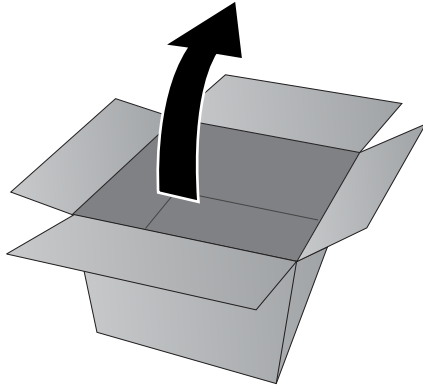
www.hp.com/recycle



2. Unpack the replacement part from the packaging.

⚠ CAUTION: If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands or before touching rollers or pads.

📋 IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.



Remove and replacement: Engine controller assembly (MFP M28-M31)

- [Introduction](#)
- [Step 1: Remove the formatter cover \(MFP M28-M31\)](#)
- [Step 2: Remove the formatter \(MFP M28-M31\)](#)
- [Step 3: Remove the image scanner \(MFP M28-M31\)](#)
- [Step 4: Remove the top cover \(MFP M28-M31\)](#)
- [Step 5: Remove the lower cover \(MFP M28-M31\)](#)
- [Step 6: Remove the engine controller assembly \(MFP M28-M31\)](#)
- [Step 7: Unpack the replacement assembly](#)

Introduction

This document provides the procedures to remove and replace the engine controller assembly (MFP M28-M317).



IMPORTANT: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Before performing service

- Turn the printer power off.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts

Engine controller assembly (MFP M28-M31) part number	
RM3-7396-000CN	Engine controller assembly (110-127V; MFP M28-M31)
RM3-7397-000CN	Engine controller assembly (220-240V; MFP M28-M31)
RM3-7398-000CN	Engine controller assembly (EM model 220-240V; MFP M28-M31)

Required tools

- #2 Phillips screwdriver with a magnetic tip

After performing service

- Turn the printer power on.

Post service test

Send a job to the printer, and then verify that print quality is acceptable.

Step 1: Remove the formatter cover (MFP M28-M31)

- ▲ Position the printer front side down.

Remove two screws (callout 1), and then remove the formatter cover (callout 2).


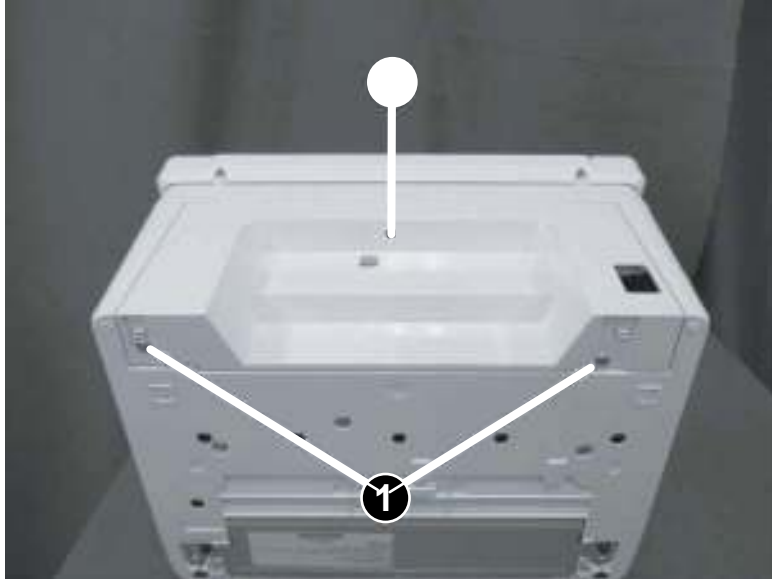
 **Reinstallation tip:** Reverse the removal steps to install the assembly.

Figure 1-326 Remove the formatter cover (MFP M28-M31)



Step 2: Remove the formatter (MFP M28-M31)

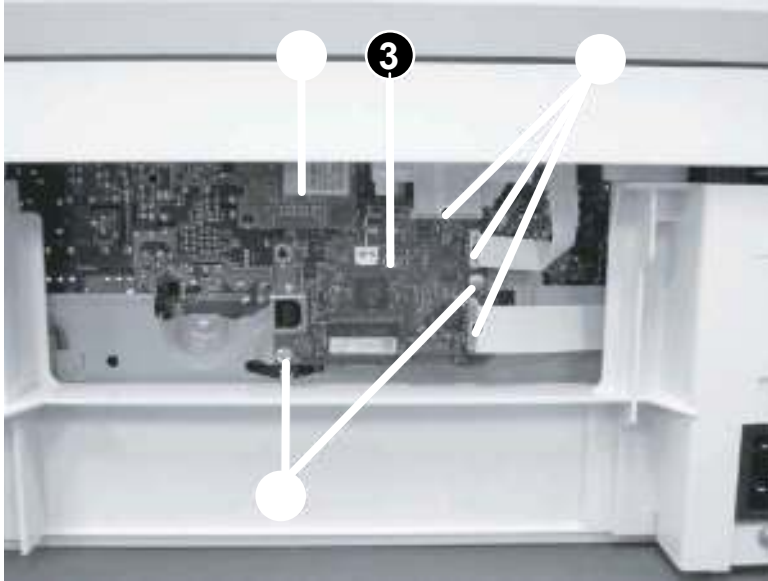
- ▲ Do the following:
 - a. Disconnect three flat flexible cables (FFCs) (callout 1).
 - b. Remove two screws (callout 2).

- c. Remove the formatter (callout 3).


 **Reinstallation tip:** After removing the formatter, remove the wireless PCA (callout 4), and then install it on the replacement formatter.

Reverse the removal steps to install the assembly.

Figure 1-327 Remove the formatter (MFP M28-M31)

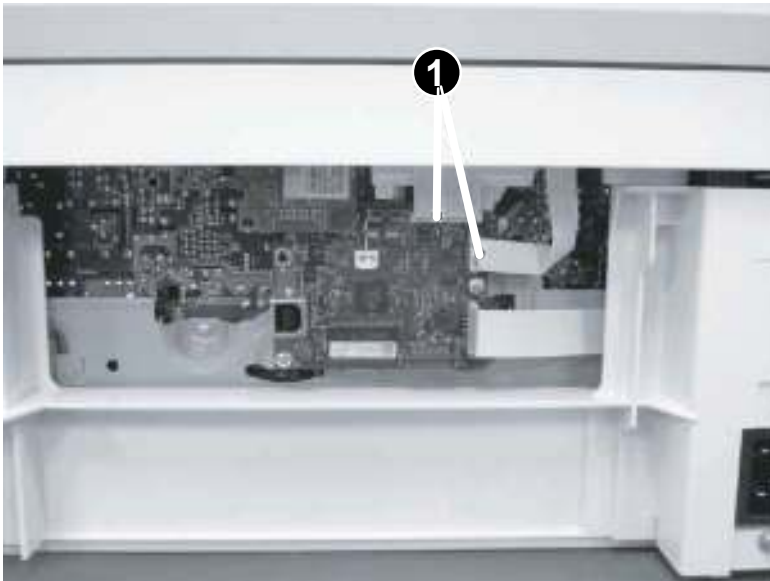


Step 3: Remove the image scanner (MFP M28-M31)

 **IMPORTANT:** Since the formatter is previously removed, skip Step 1 in the following task to remove the image scanner.

1. Disconnect two flat flexible cables (FFCs) (callout 1).

Figure 1-328 Disconnect two FFCs

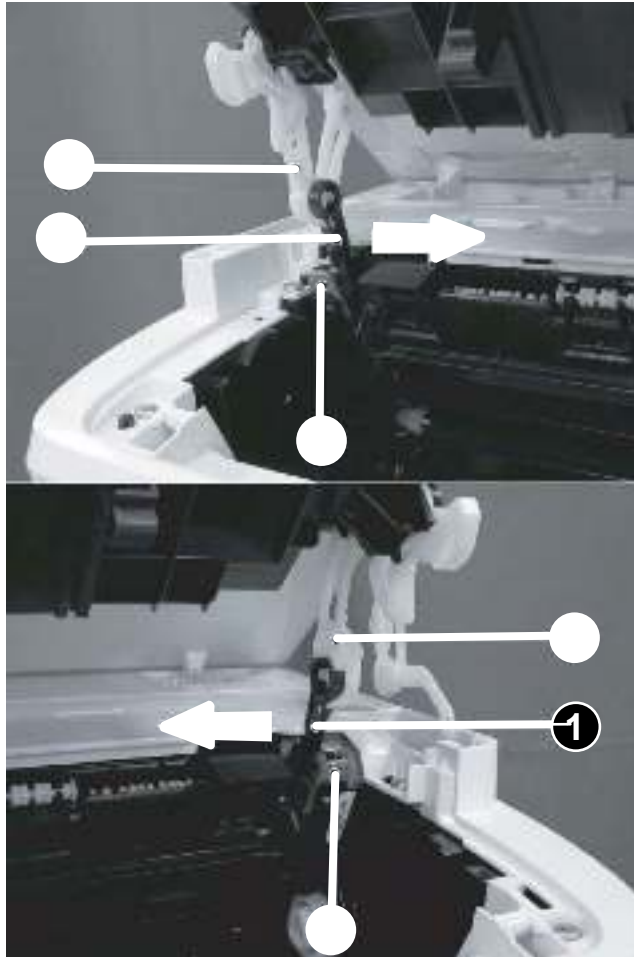


2. Before proceeding, take note of the following disassembly instructions.

When removing the link arm (callout 2) from the pressure release lever (callout 1), the pressure plate (callout 3) might be deformed if the pressure release lever moves in the direction shown below.

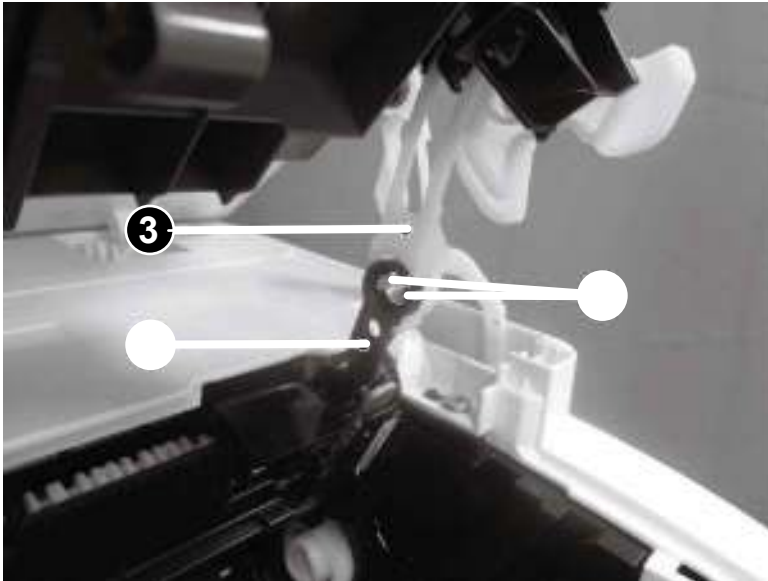
 **CAUTION:** Do not deform the pressure plate.

Figure 1-329 Special disassembly instructions



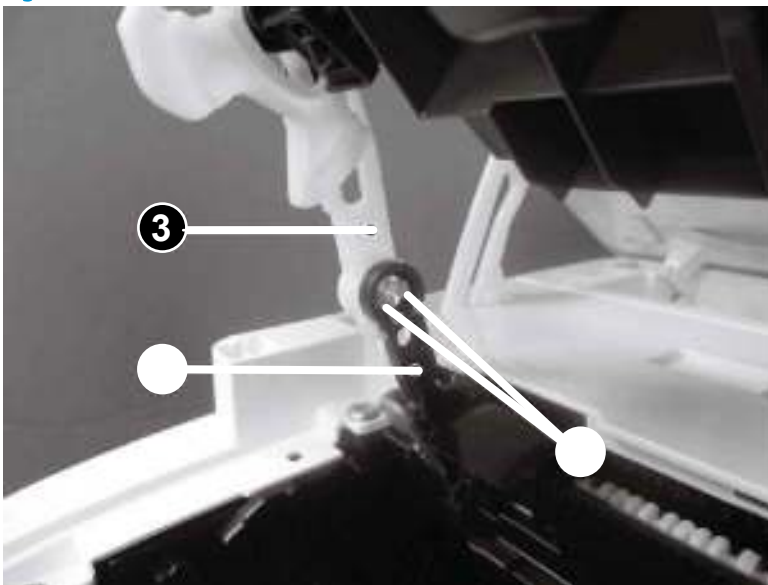
3. Open the image scanner, release two tabs (callout 1), remove one link arm (callout 3) from the pressure release lever (callout 2).

Figure 1-330 Remove the link arm



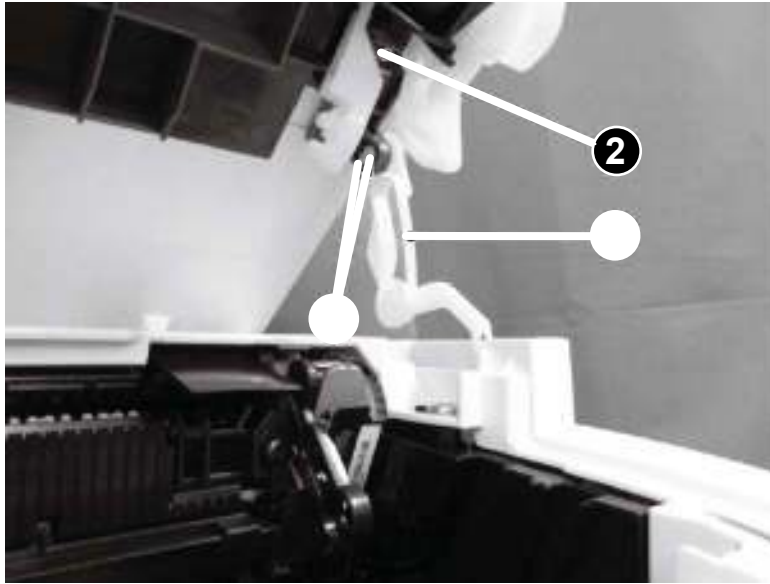
4. Release two tabs (callout 1), and then remove one link arm (callout 3) from the pressure release lever (callout 2).

Figure 1-331 Remove the link arm



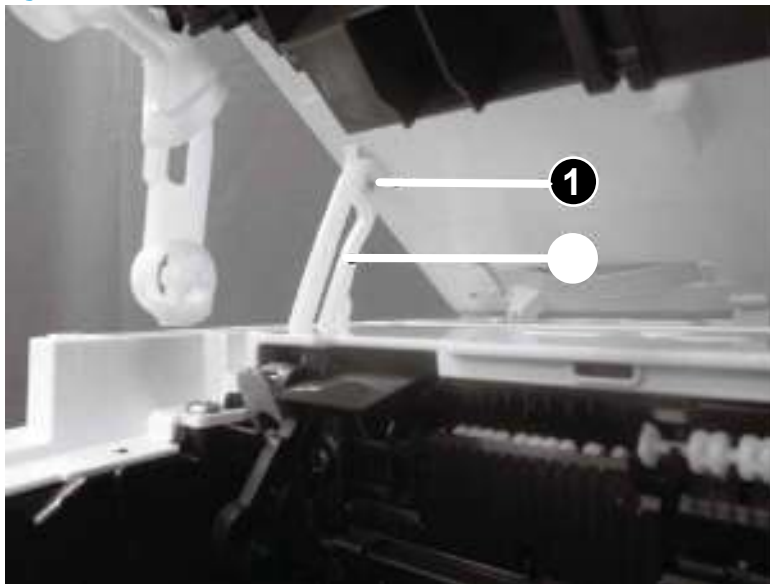
5. Release two tabs (callout 1), and then remove one link arm (callout 3) from the cartridge door (callout 2).

Figure 1-332 Remove the link arm



6. Remove one link arm (callout 2) from the shaft (callout 1).

Figure 1-333 Remove the link arm



7. Pull two flat-flexible cables (FFCs) (callout 2) out and away from the top cover (callout 1), and then slide the image scanner (callout 3) as shown below to remove it.

CAUTION: Do not damage the FFCs.

Reinstallation tip: Reverse the removal steps to install the assembly.

Figure 1-334 Remove the image scanner

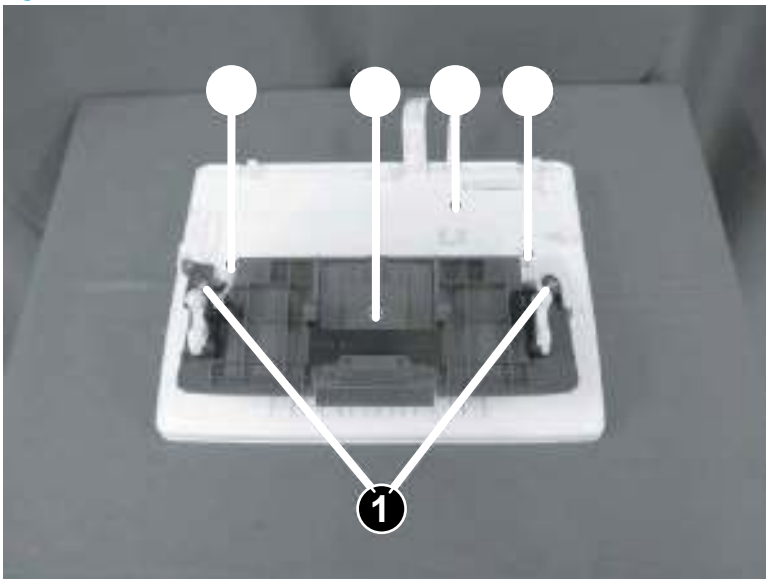


8. For a replacement image scanner, do the following:

NOTE: If the image scanner is removed to access other assemblies, skip this step.

- Remove two screws (callout 1).
- Remove the cartridge door (callout 3) (with the link arms; callout 4) from the image scanner (callout 2).

Figure 1-335 Remove the cartridge door



Step 4: Remove the top cover (MFP M28-M31)

1. Remove two screws (M3; callout 1), remove seven screws (M4; callout 2), release one tab (callout 3), and then remove the top cover (callout 4).


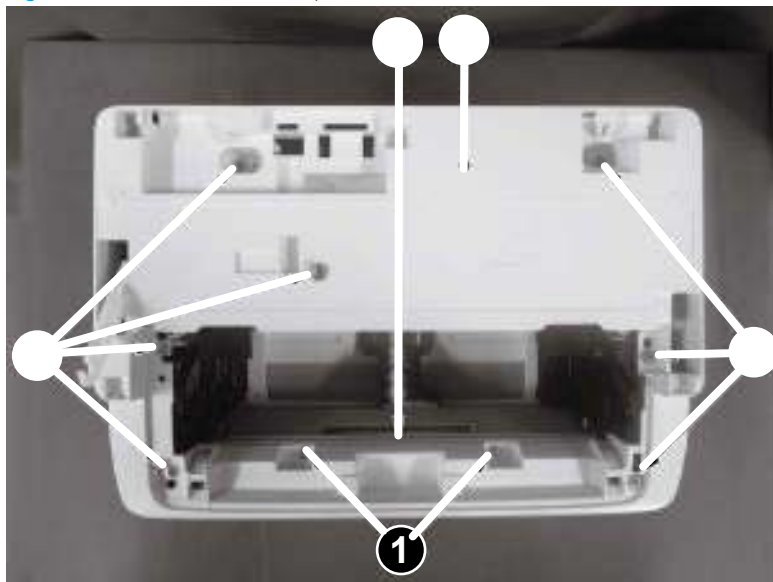

 **Reinstallation tip:** Reverse the removal steps to install the assembly.

Figure 1-336 Remove the top cover



2. Reverse the removal steps to install the assembly. Also use the following special installation instructions.

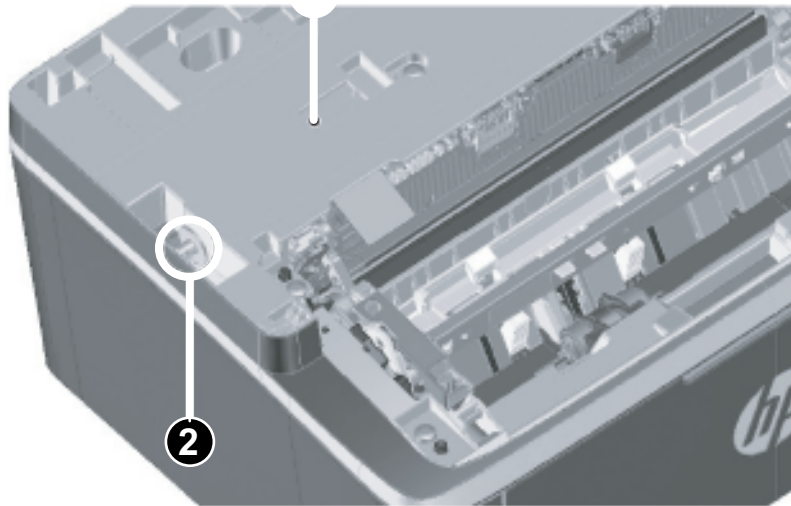
 **NOTE:** Continue to reverse the removal steps to finish installing the assembly.

 **TIP:** If the top cover is removed to access other assemblies, skip this step.

Special installation instructions: Top cover

- ▲ Remove the pad (callout 2) from the top cover (callout 1), and then install it on the replacement top cover.

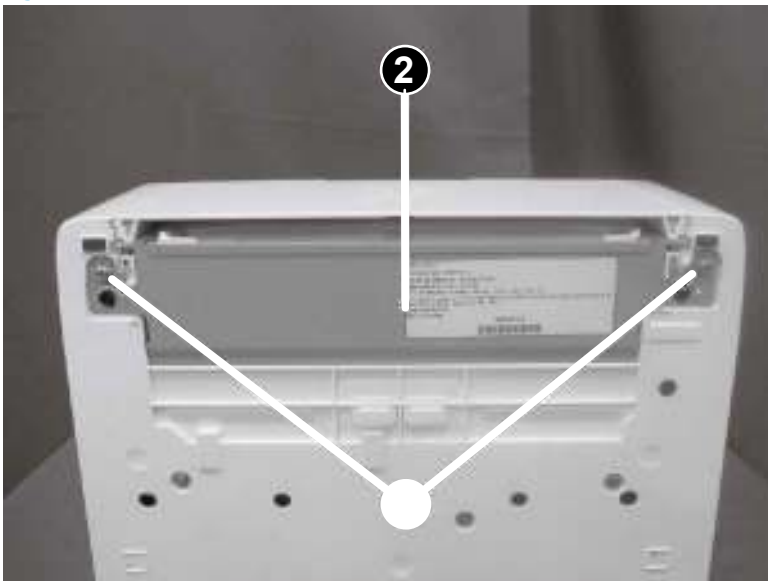
Figure 1-337 Install the pad



Step 5: Remove the lower cover (MFP M28-M31)

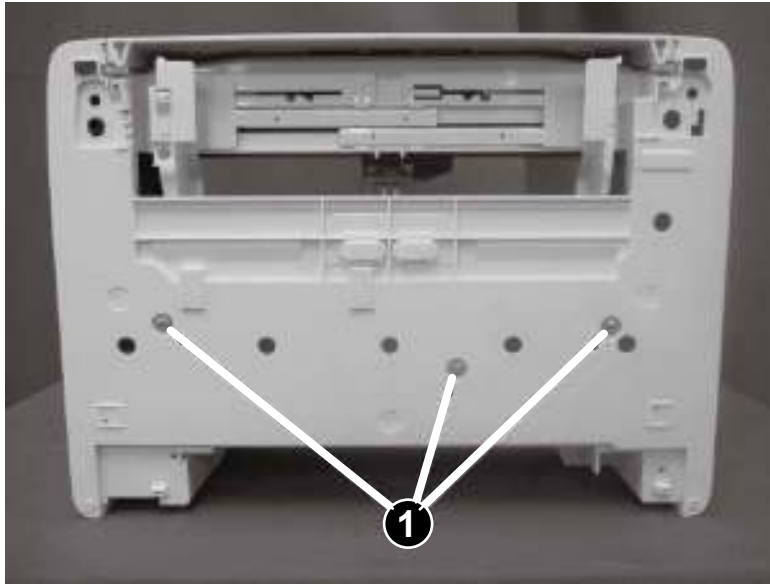
1. Position the printer rear side down, remove two screws (callout 1), and then remove the lower plate (callout 2)

Figure 1-338 Remove the lower plate



2. Remove three screws (callout 1).

Figure 1-339 Remove three screws



3. Remove two screws (callout 1), and then remove the lower cover (callout 2).


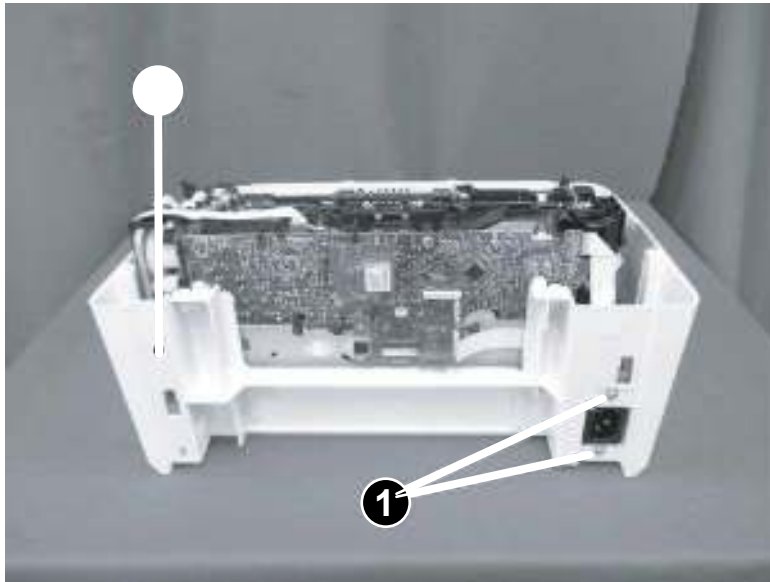
 **Reinstallation tip:** Reverse the removal steps to install the assembly.

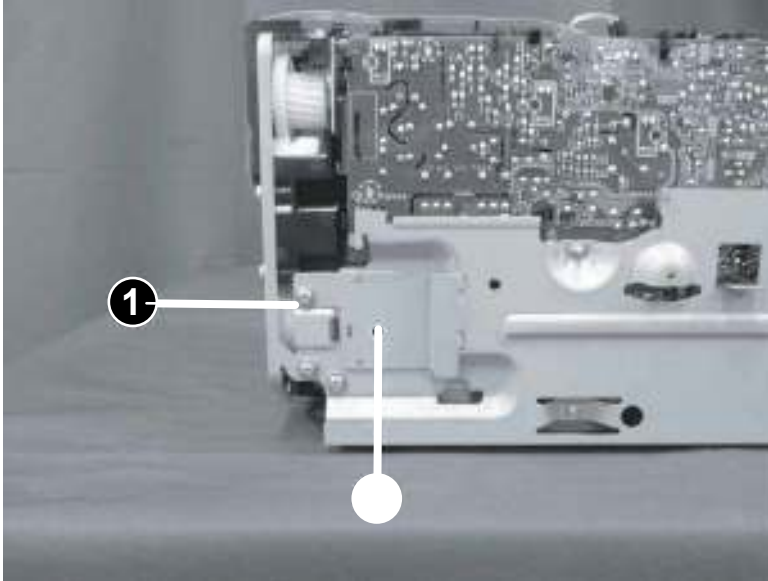
Figure 1-340 Remove the lower cover



Step 6: Remove the engine controller assembly (MFP M28-M31)

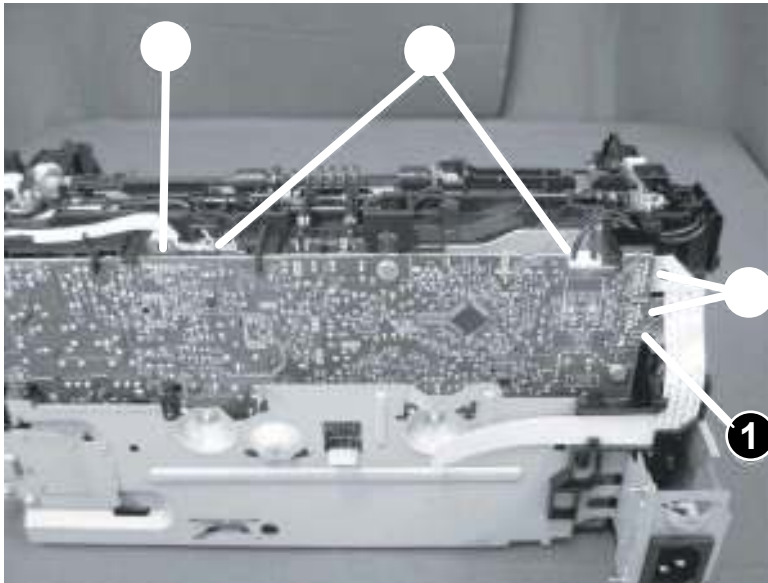
1. Do the following:
 - a. Remove one screw (callout 1).
 - b. Remove the motor shield plate (callout 2).

Figure 1-341 Remove the motor shield plate



2. Do the following:
 - a. Disconnect three connectors (callout 1).
 - b. Disconnect three flat flexible cables (FFCs) (callout 2).

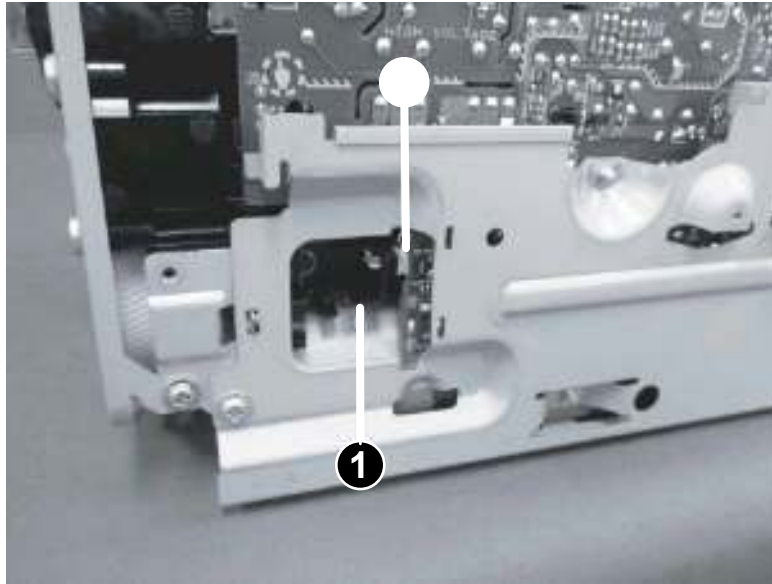
Figure 1-342 Disconnect connectors and FFCs



3. Do the following:
 - a. Slide the lever (callout 1) towards the left side.

- b. Disconnect one connector (callout 2).

Figure 1-343 Release the lever and disconnect the connector



- 4. Do the following:
 - a. Remove two screws (M3; callout 1).
 - b. Remove two screws (M4; callout 2).
 - c. Release three tabs (callout 3).
 - d. Remove the engine controller assembly (callout 4).


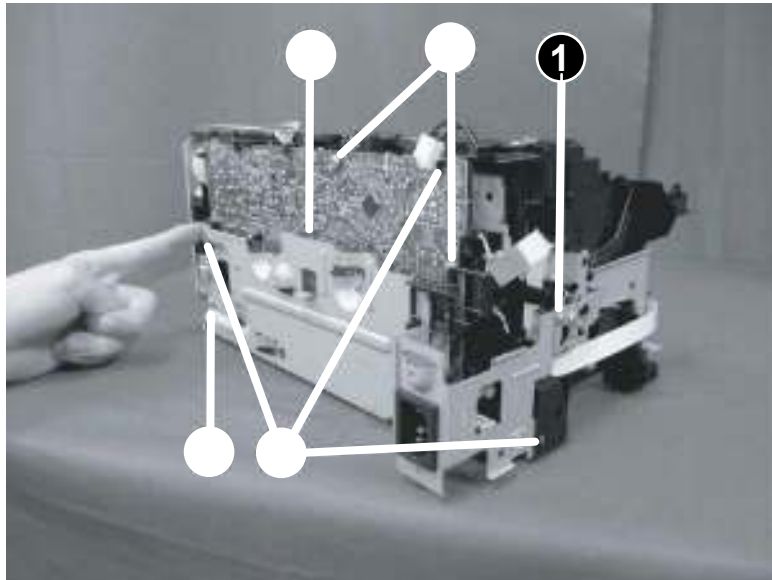

 **Reinstallation tip:** Reverse the removal steps to install the assembly.

Figure 1-344 Remove the engine controller assembly



- 5. Reverse the removal steps to install the assembly. Also use the following special installation instructions.

 **NOTE:** Continue to reverse the removal steps to finish installing the assembly.

Special installation instructions: Engine controller assembly

- ▲ Make sure that the spring (callout 1) is installed in the holder (callout 2).


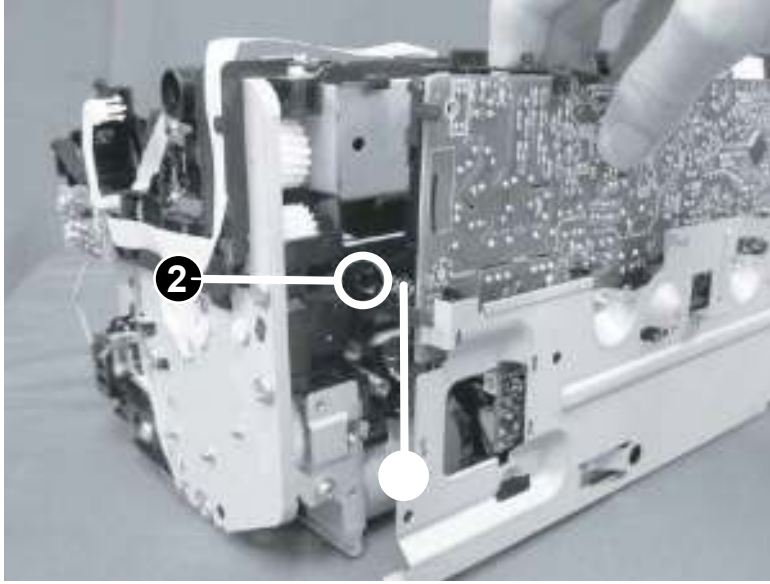
 **CAUTION:** The spring must not be deformed when installing the engine controller assembly.

Figure 1-345 Check the spring



Step 7: Unpack the replacement assembly

1. Dispose of the defective part.

 **NOTE:** HP recommends responsible disposal of the defective part.

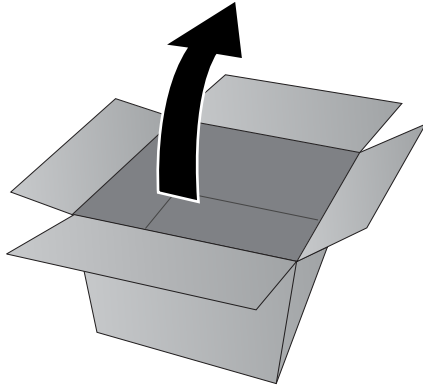
www.hp.com/recycle



2. Unpack the replacement part from the packaging.

⚠ CAUTION: If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands or before touching rollers or pads.

📋 IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.



Remove and replacement: Door switch and flat flexible cable

- [Introduction](#)
- [Step 1: Remove the cartridge door \(M14-M17\)](#)
- [Step 2: Remove the formatter cover \(M14-M17\)](#)
- [Step 3: Remove the lower cover \(M14-M17\)](#)
- [Step 4: Remove the formatter cover \(MFP M28-M31\)](#)
- [Step 5: Remove the image scanner \(MFP M28-M31\)](#)
- [Step 6: Remove the top cover \(MFP M28-M31\)](#)
- [Step 7: Remove the lower cover \(MFP M28-M31\)](#)
- [Step 8: Remove the door switch and FFC](#)
- [Step 9: Unpack the replacement assembly](#)

Introduction

This document provides the procedures to remove and replace the door switch and flat flexible cable (FFC).



IMPORTANT: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Before performing service

- Turn the printer power off.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts

Door switch and door switch FFC part numbers	
RM3-7169-000CN	Door switch
RK2-9877-000 CN	FFC, door switch

Required tools

- #2 Phillips screwdriver with a magnetic tip

After performing service

- Turn the printer power on.

Post service test

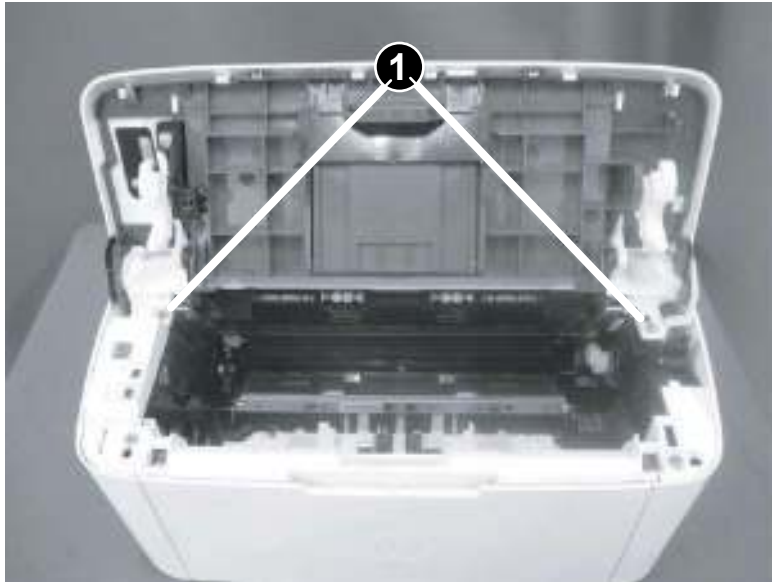
No post service test is available for this assembly.

Step 1: Remove the cartridge door (M14-M17)

 **NOTE:** This step is for the M14-M17 printers. For all other printers, skip this step and go to [Step 4: Remove the formatter cover \(MFP M28-M31\) on page 284.](#)

1. Open the cartridge door, and then remove two screws (callout 1).

Figure 1-346 Remove two screw

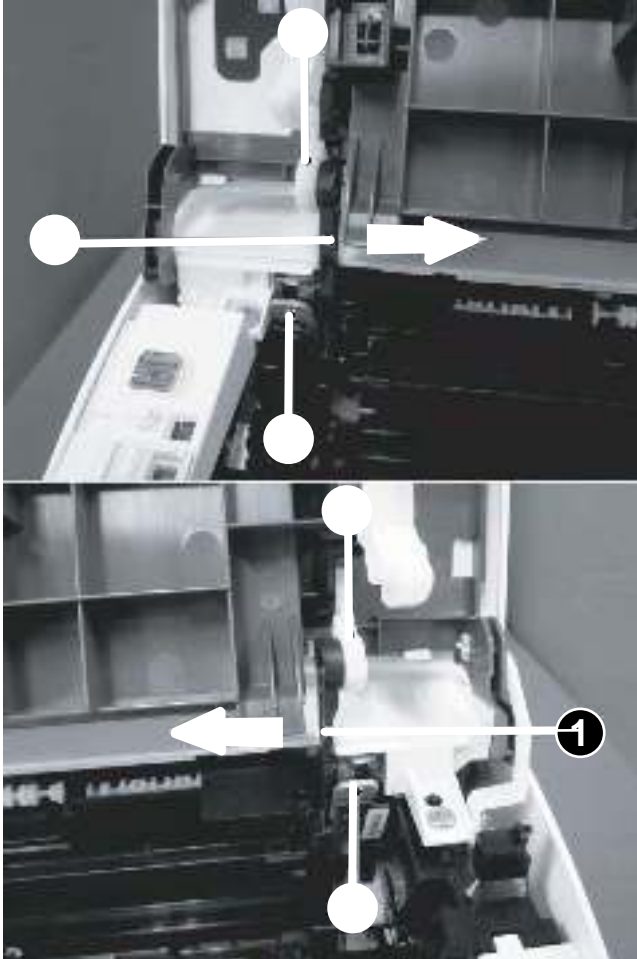


2. Before proceeding, take note of the following disassembly instructions.

When removing the link arm (callout 2) from the pressure release lever (callout 1), the pressure plate (callout 3) might be deformed if the pressure release lever moves in the direction shown below.

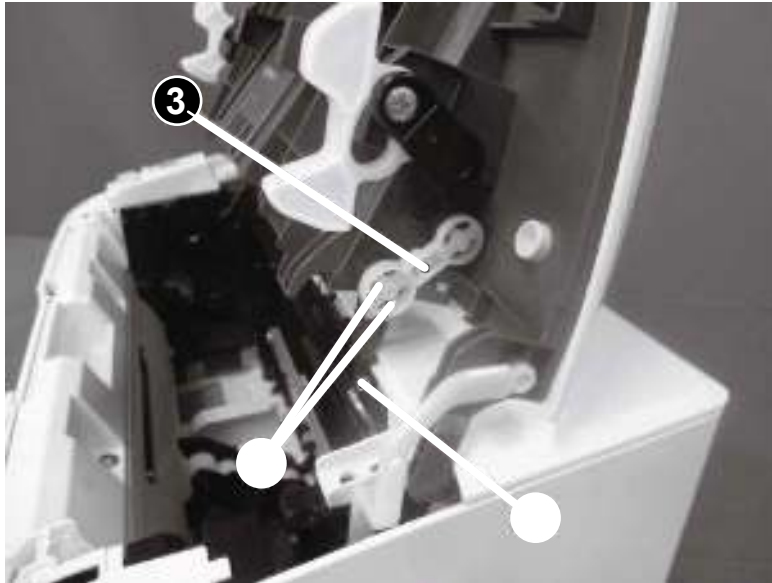
 **CAUTION:** Do not deform the pressure plate.

Figure 1-347 Special disassembly instructions



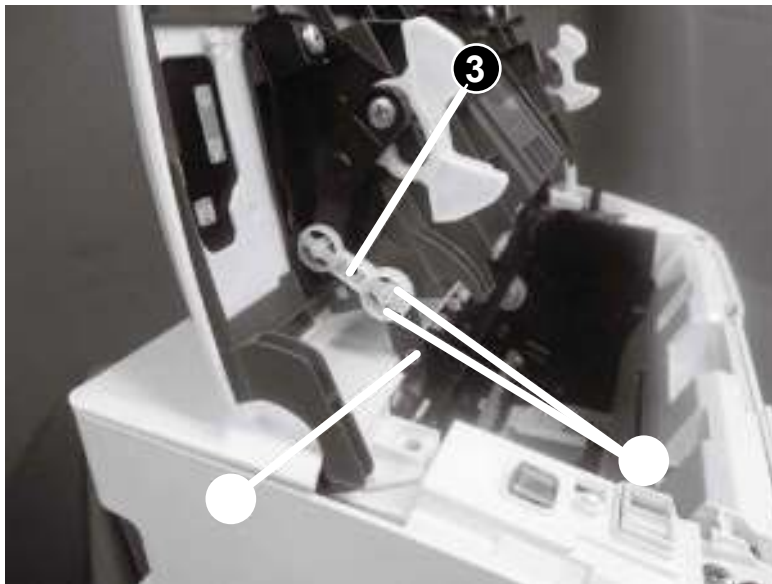
3. Release two tabs (callout 1), and then remove one link arm (callout 3) from the pressure release lever (callout 2).

Figure 1-348 Remove the link arm



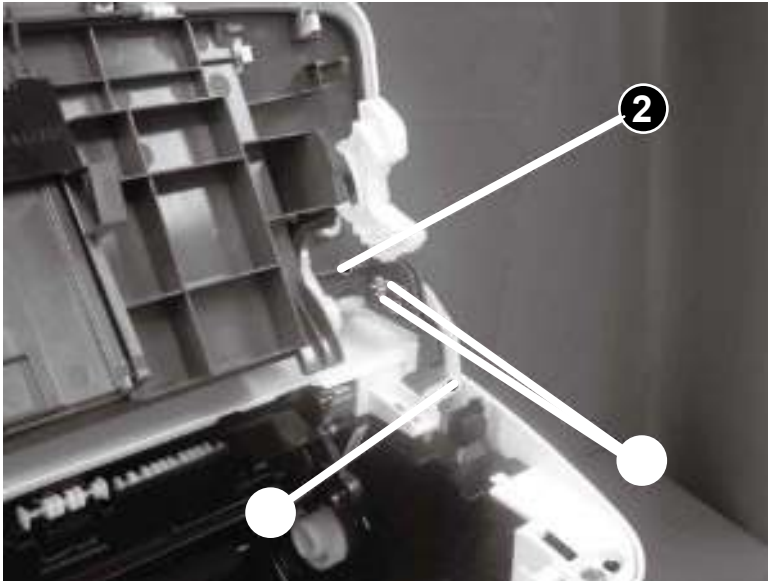
4. Release two tabs (callout 1), and then remove one link arm (callout 3) from the pressure release lever (callout 2).

Figure 1-349 Remove the link arm




5. Release two tabs (callout 1), and then remove one link arm (callout 3) from the cartridge door assembly (callout 2).

Figure 1-350 Remove the link arm

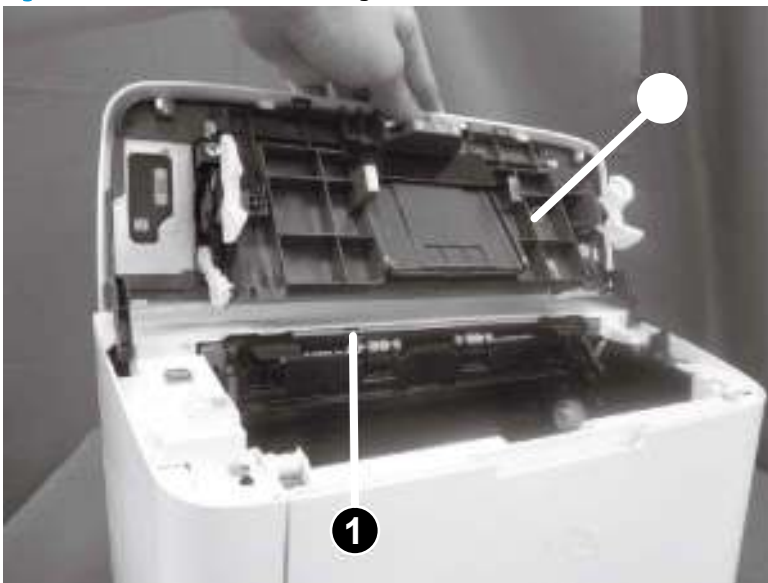


6. Release one tab (callout 1), support the cartridge door (callout 2), and then remove it.

 **NOTE:** If the cartridge door is removed to access other assembly, stop at this step.

 **Reinstallation tip:** Reverse the removal steps to install the door.

Figure 1-351 Remove the cartridge door

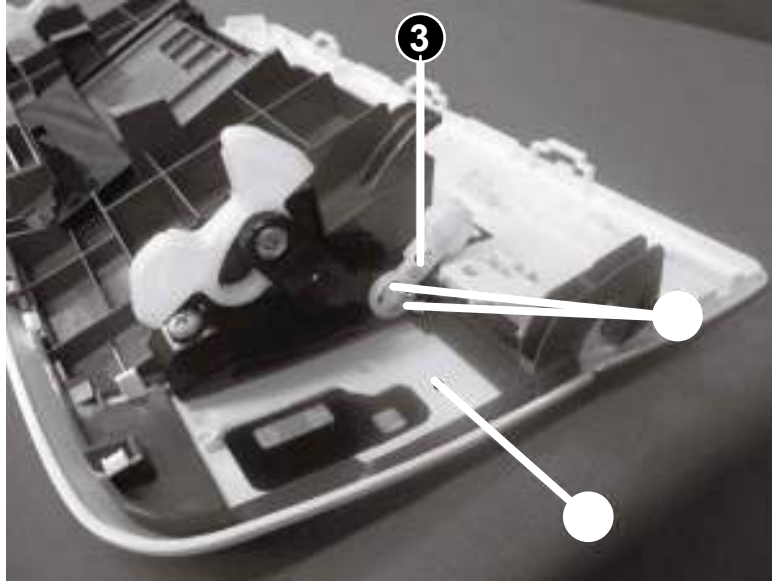


7. **Optional step:** If a replacement cartridge door is being installed, do the following:

 **NOTE:** Install the link arms on the replacement door.

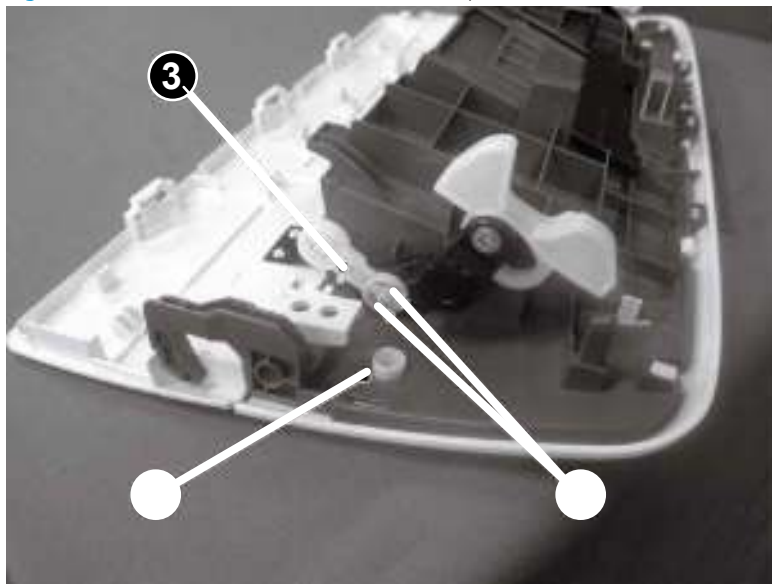
- a. Release two tabs (callout 1), and then remove the one link arm (callout 3) from the door assembly (callout 2).

Figure 1-352 Install the link arms on the replacement door




- b. Release two tabs (callout 1), and then remove the one link arm (callout 3) from the door assembly (callout 2).

Figure 1-353 Install the link arms on the replacement door



Step 2: Remove the formatter cover (M14-M17)

 **NOTE:** This step is for the M14-M17 printers. For all other printers, skip this step and go to [Step 4: Remove the formatter cover \(MFP M28-M31\) on page 284.](#)

- ▲ Position the printer front side down.

Release one tab (callout 1), and then remove the formatter cover (callout 2).


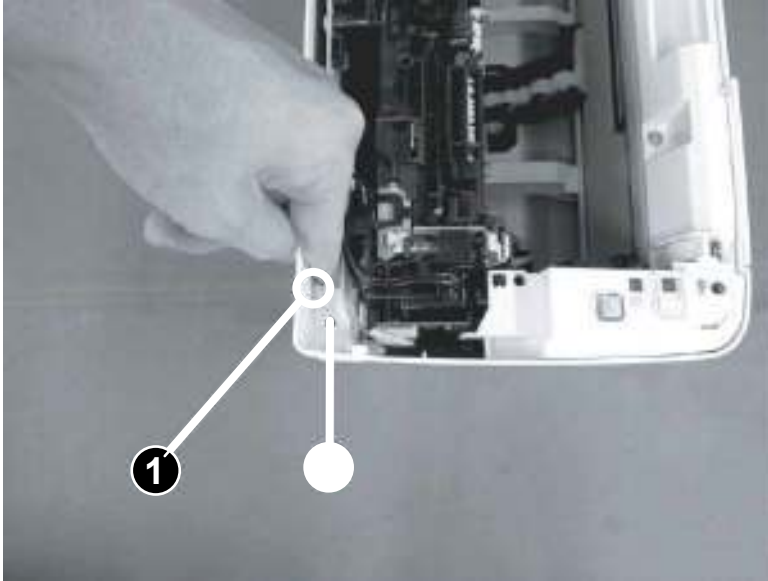

 **Reinstallation tip:** Reverse the removal steps to install the assembly.

Figure 1-354 Remove the formatter cover (M14-M17)

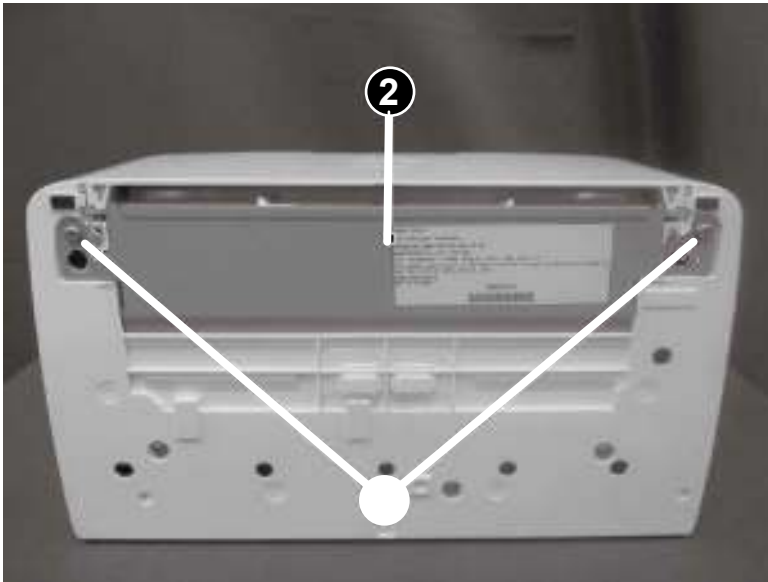


Step 3: Remove the lower cover (M14-M17)

 **NOTE:** This step is for the M14-M17 printers. For all other printers, skip this step and go to [Step 4: Remove the formatter cover \(MFP M28-M31\) on page 284](#).

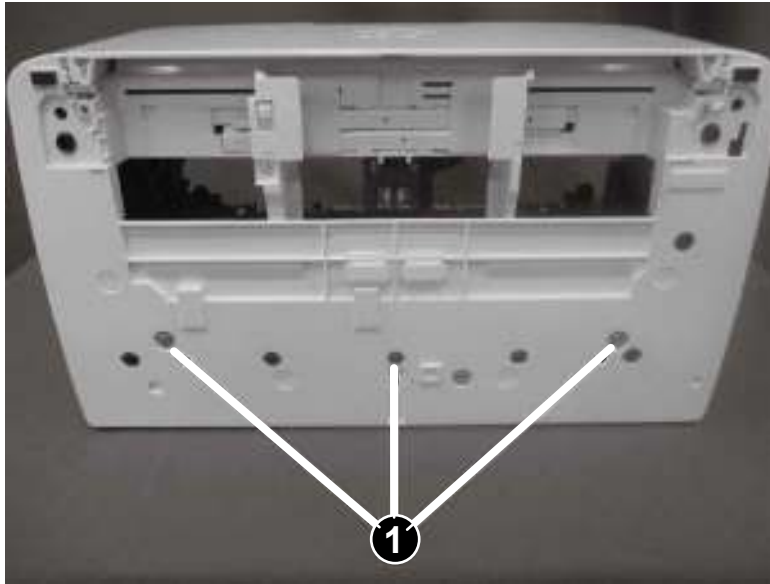
1. Position the printer rear side down, remove three screws (callout 1), and then remove the lower plate (callout 2).

Figure 1-355 Remove the lower plate



2. Remove three screws (callout 1)

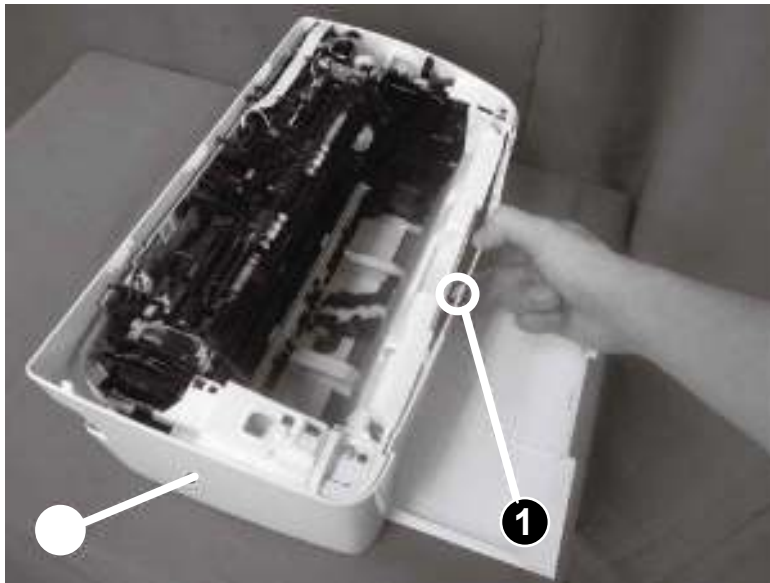
Figure 1-356 Remove the three screws



3. With the printer in the upright position, release one tab (callout 1), and then remove the lower cover (callout 2).

 **Reinstallation tip:** Reverse the removal steps to install the assembly.

Figure 1-357 Remove the lower cover



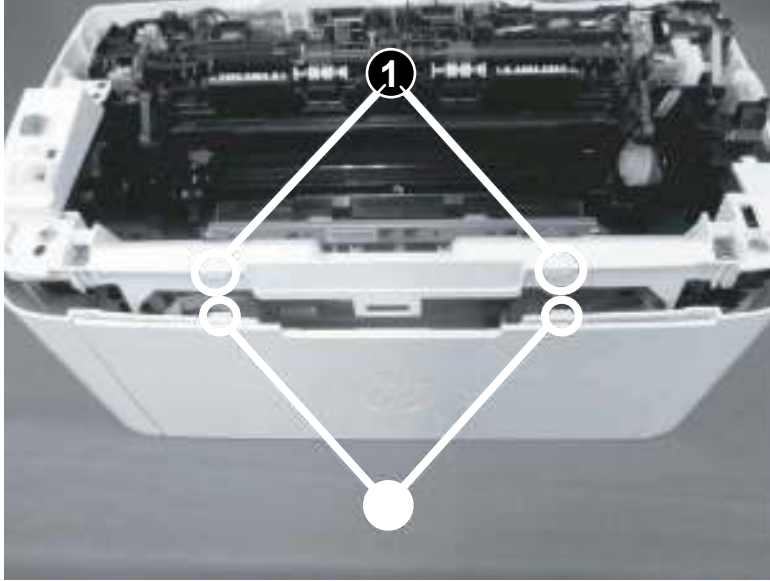
4. Reverse the removal steps to install the assembly. Also use the following special installation instructions.

 **NOTE:** Continue to reverse the removal steps to finish installing the assembly.


Special installation instructions: Lower cover

- ▲ Make sure to fit two ribs (callout 1) on the printer into the grooves (callout 2) in the lower cover.

Figure 1-358 Fit two ribs on the printer into the grooves (lower cover install)



Step 4: Remove the formatter cover (MFP M28-M31)

 **NOTE:** This step is for the MFP M28-M31 printers. For all other printers, skip this step and go to [Step 8: Remove the laser scanner and FFC on page 158](#).

- ▲ Position the printer front side down.

Remove two screws (callout 1), and then remove the formatter cover (callout 2).


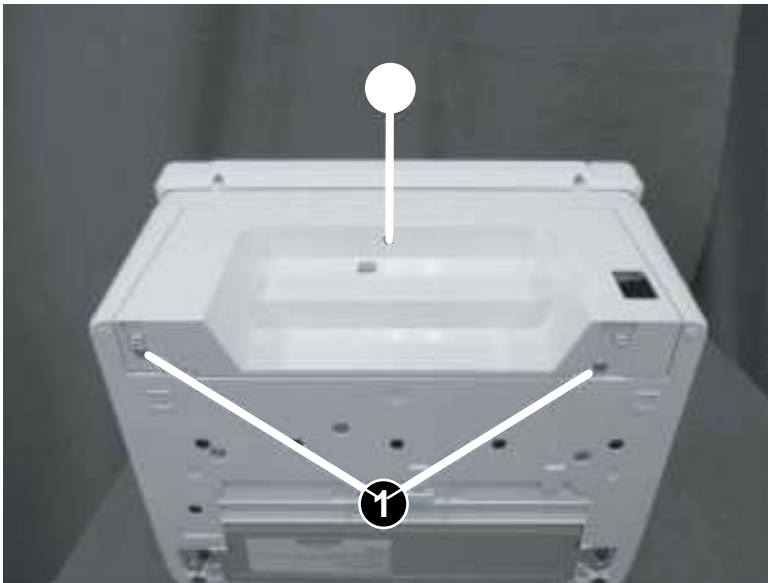

 **Reinstallation tip:** Reverse the removal steps to install the assembly.

Figure 1-359 Remove the formatter cover (MFP M28-M31)

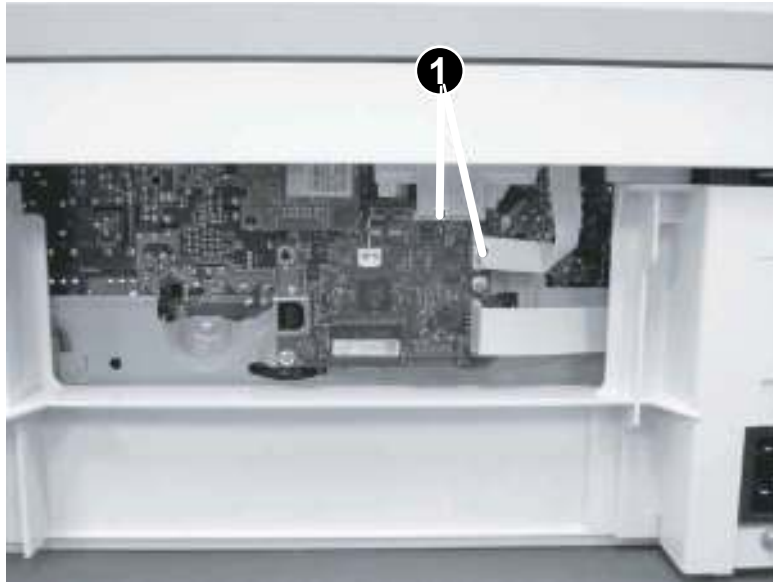


Step 5: Remove the image scanner (MFP M28-M31)

 **NOTE:** This step is for the MFP M28-M31 printers. For all other printers, skip this step and go to [Step 8: Remove the door switch and FFC on page 292](#).

1. Disconnect two flat flexible cables (FFCs) (callout 1).

Figure 1-360 Disconnect two FFCs

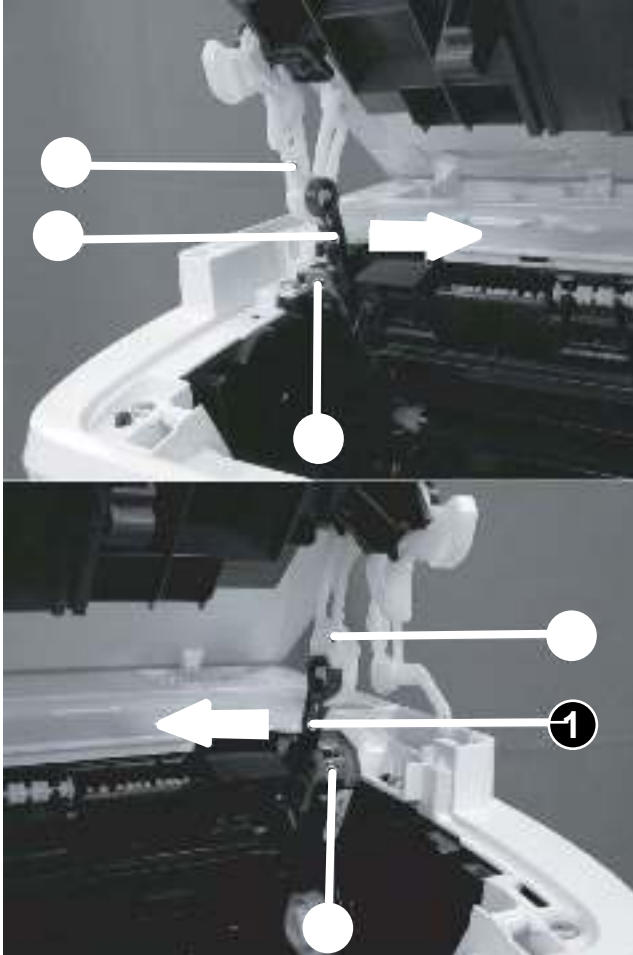


2. Before proceeding, take note of the following disassembly instructions.

When removing the link arm (callout 2) from the pressure release lever (callout 1), the pressure plate (callout 3) might be deformed if the pressure release lever moves in the direction shown below.

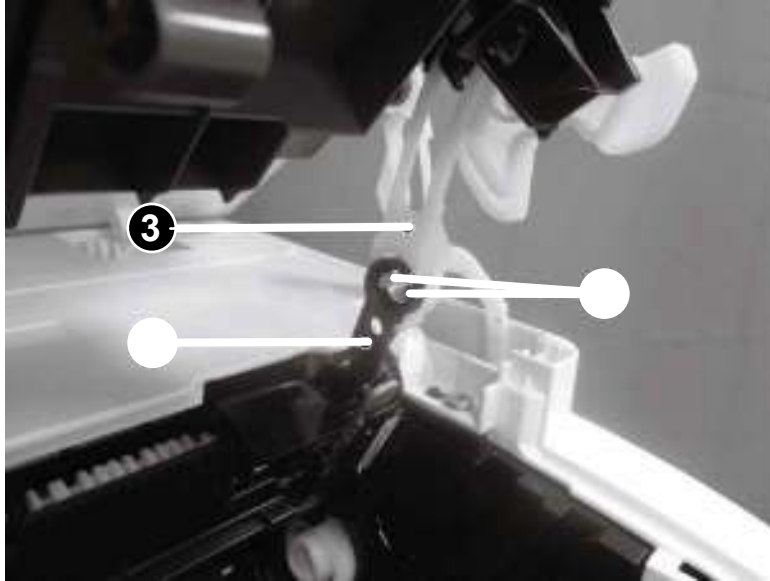
 **CAUTION:** Do not deform the pressure plate.

Figure 1-361 Special disassembly instructions



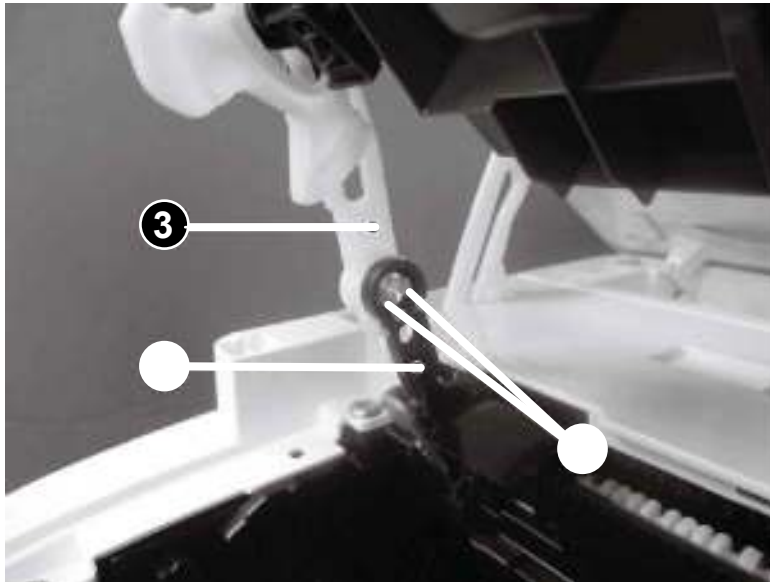
3. Open the image scanner, release two tabs (callout 1), remove one link arm (callout 3) from the pressure release lever (callout 2).

Figure 1-362 Remove the link arm



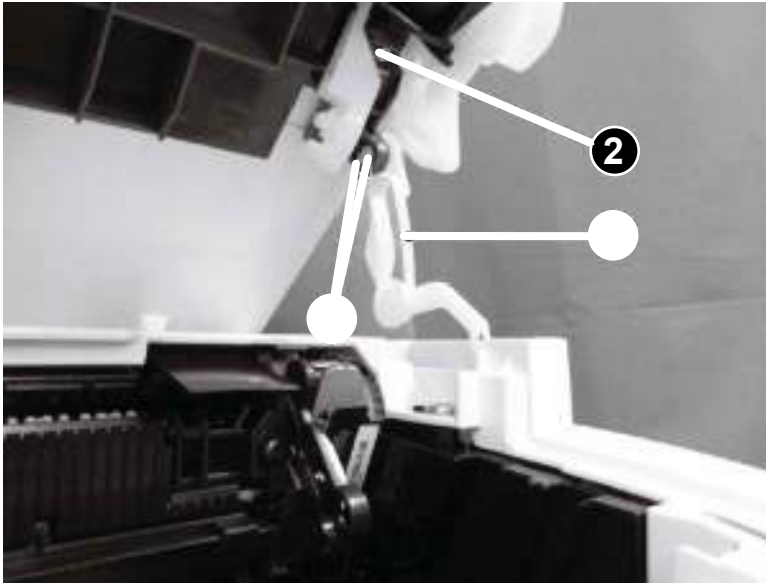
4. Release two tabs (callout 1), and then remove one link arm (callout 3) from the pressure release lever (callout 2).

Figure 1-363 Remove the link arm



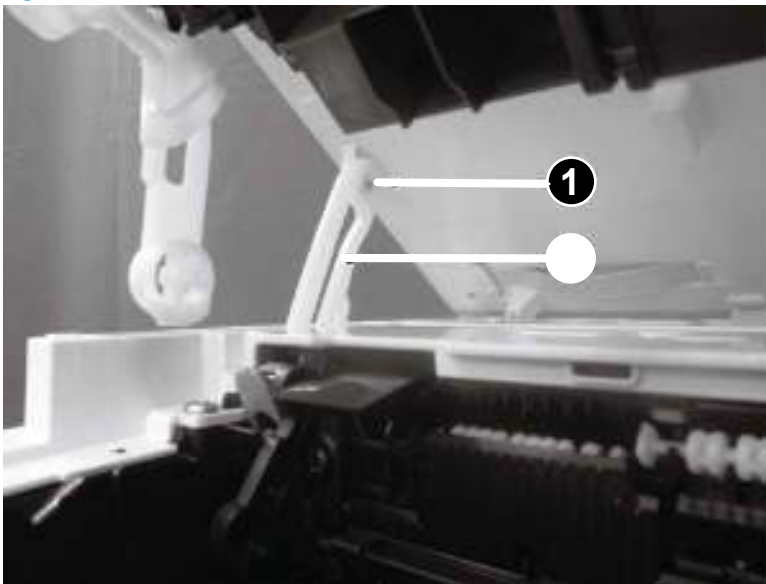
5. Release two tabs (callout 1), and then remove one link arm (callout 3) from the cartridge door (callout 2).

Figure 1-364 Remove the link arm



6. Remove one link arm (callout 2) from the shaft (callout 1).

Figure 1-365 Remove the link arm



7. Pull two flat-flexible cables (FFCs) (callout 2) out and away from the top cover (callout 1), and then slide the image scanner (callout 3) as shown below to remove it.

CAUTION: Do not damage the FFCs.

Reinstallation tip: Reverse the removal steps to install the assembly.

Figure 1-366 Remove the image scanner

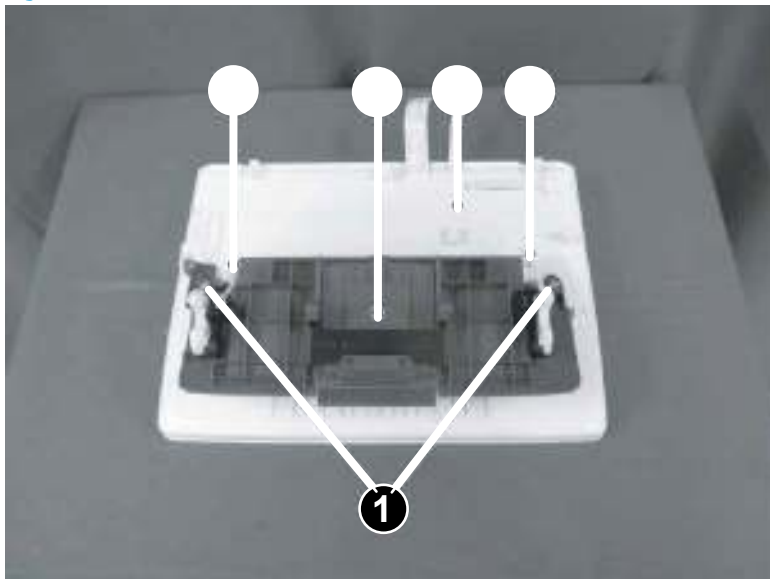


8. For a replacement image scanner, do the following:


NOTE: If the image scanner is removed to access other assemblies, skip this step.

- Remove two screws (callout 1).
- Remove the cartridge door (callout 3) (with the link arms; callout 4) from the image scanner (callout 2).

Figure 1-367 Remove the cartridge door



Step 6: Remove the top cover (MFP M28-M31)

 **NOTE:** This step is for the MFP M28-M31 printers. For all other printers, skip this step and go to [Step 8: Remove the door switch and FFC on page 292](#).

1. Remove two screws (M3; callout 1), remove seven screws (M4; callout 2), release one tab (callout 3), and then remove the top cover (callout 4).


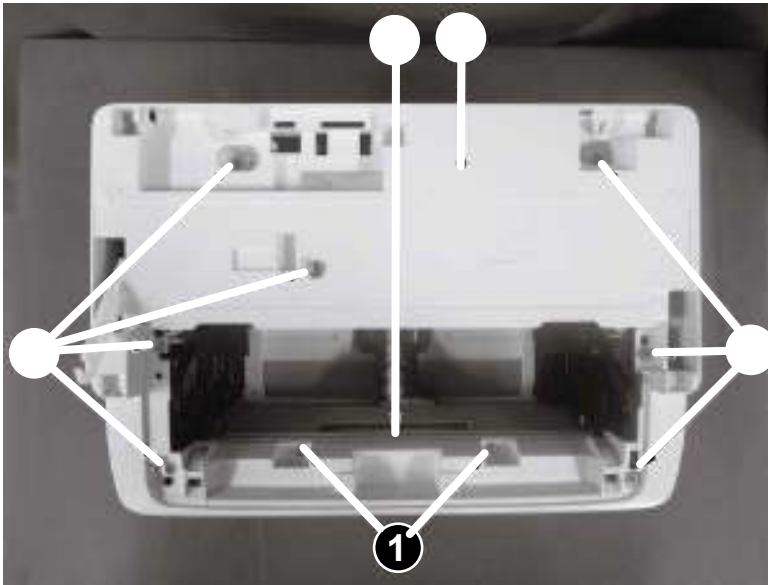

 **Reinstallation tip:** Reverse the removal steps to install the assembly.

Figure 1-368 Remove the top cover



2. Reverse the removal steps to install the assembly. Also use the following special installation instructions.

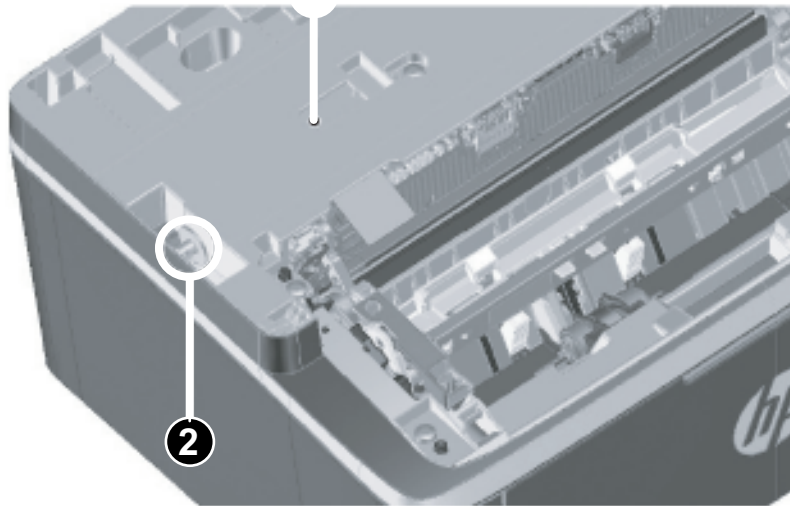
 **NOTE:** Continue to reverse the removal steps to finish installing the assembly.

 **TIP:** If the top cover is removed to access other assemblies, skip this step.


Special installation instructions: Top cover

- ▲ Remove the pad (callout 2) from the top cover (callout 1), and then install it on the replacement top cover.

Figure 1-369 Install the pad

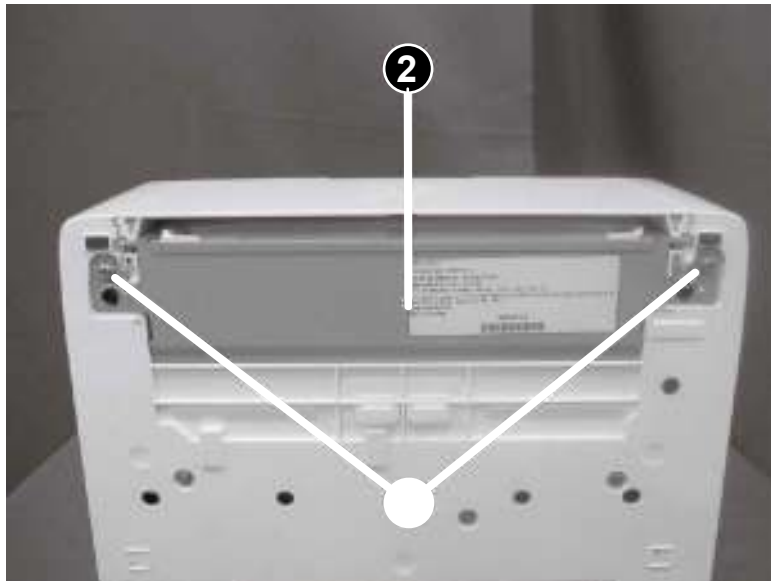


Step 7: Remove the lower cover (MFP M28-M31)

 **NOTE:** This step is for the MFP M28-M31 printers. For all other printers, skip this step and go to [Step 8: Remove the door switch and FFC on page 292](#).

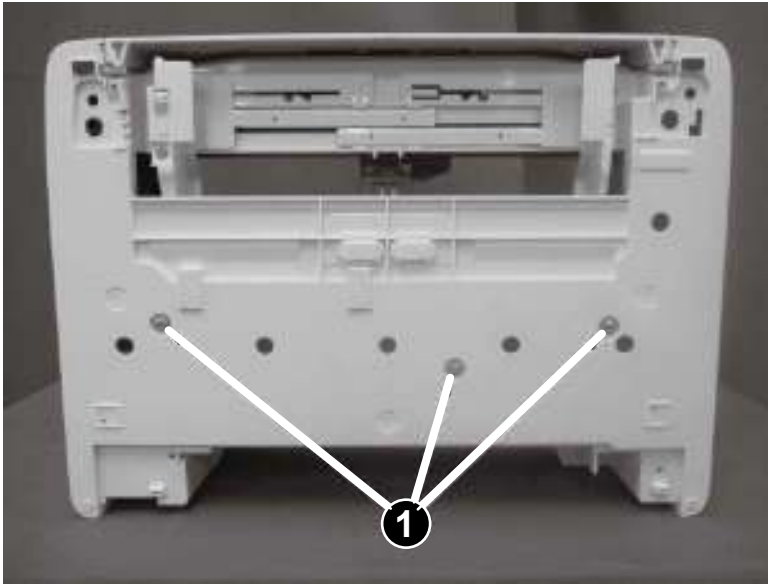
1. Position the printer rear side down, remove two screws (callout 1), and then remove the lower plate (callout 2)

Figure 1-370 Remove the lower plate



2. Remove three screws (callout 1).

Figure 1-371 Remove three screws



3. Remove two screws (callout 1), and then remove the lower cover (callout 2).


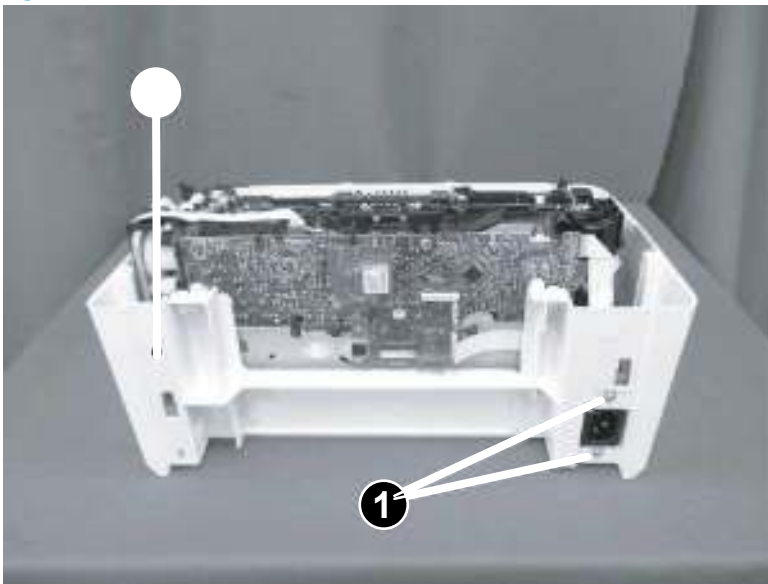
 **Reinstallation tip:** Reverse the removal steps to install the assembly.


Figure 1-372 Remove the lower cover



Step 8: Remove the door switch and FFC

- ▲ Do the following:
 - a. Disconnect two connectors (callout 1) and one FFC (callout 4).
 - b. Remove one screw (callout 2).

- c. Remove the door switch (callout 3).
- d. **Optional step:** Remove the door switch FFC (callout 4) if needed.

 **NOTE:** Disconnect the FFC from the engine controller assembly to replace it.


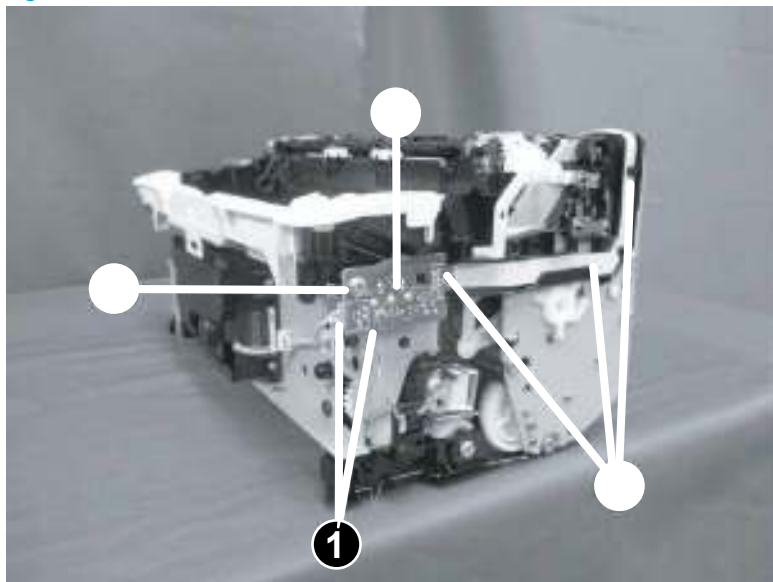
 **Reinstallation tip:** Reverse the removal steps to install the assembly.

Figure 1-373 Remove the door switch and FFC



Step 9: Unpack the replacement assembly

1. Dispose of the defective part.

 **NOTE:** HP recommends responsible disposal of the defective part.

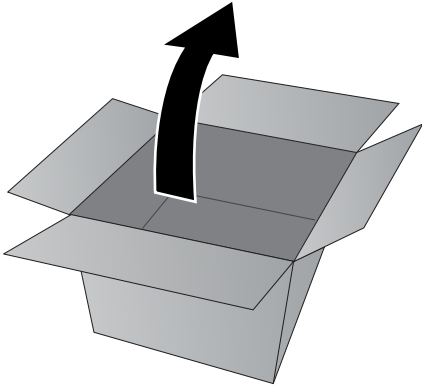
www.hp.com/recycle



2. Unpack the replacement part from the packaging.

⚠ CAUTION: If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands or before touching rollers or pads.

📋 IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.



Remove and replacement: Pickup solenoid

- [Introduction](#)
- [Step 1: Remove the cartridge door \(M14-M17\)](#)
- [Step 2: Remove the formatter cover \(M14-M17\)](#)
- [Step 3: Remove the lower cover \(M14-M17\)](#)
- [Step 4: Remove the formatter cover \(MFP M28-M31\)](#)
- [Step 5: Remove the image scanner \(MFP M28-M31\)](#)
- [Step 6: Remove the top cover \(MFP M28-M31\)](#)
- [Step 7: Remove the lower cover \(MFP M28-M31\)](#)
- [Step 8: Remove the pickup solenoid](#)
- [Step 9: Unpack the replacement assembly](#)

Introduction

This document provides the procedures to remove and replace the pickup solenoid.



IMPORTANT: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Before performing service

- Turn the printer power off.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts

Pickup solenoid part number	
RK2-9869-000CN	Pickup solenoid

Required tools

- #2 Phillips screwdriver with a magnetic tip

After performing service

- Turn the printer power on.

Post service test

No post service test is available for this assembly.

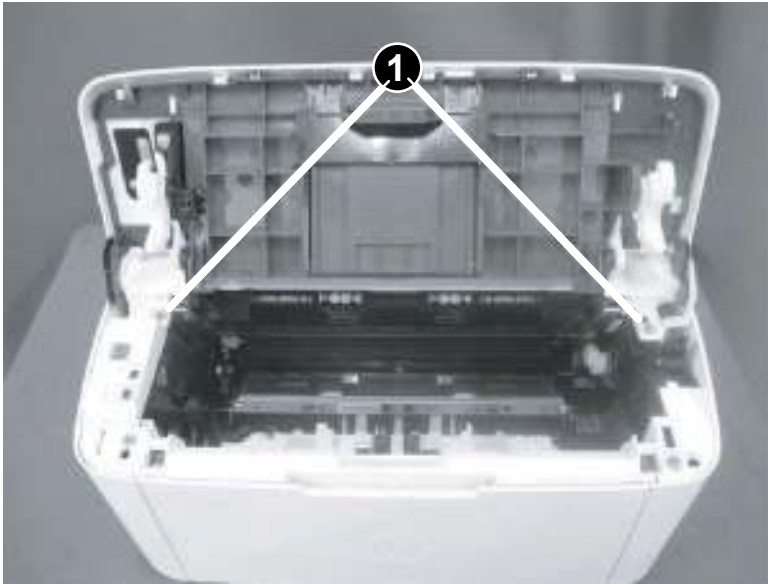
Step 1: Remove the cartridge door (M14-M17)



NOTE: This step is for the M14-M17 printers. For all other printers, skip this step and go to [Step 4: Remove the formatter cover \(MFP M28-M31\) on page 303](#).

1. Open the cartridge door, and then remove two screws (callout 1).

Figure 1-374 Remove two screw

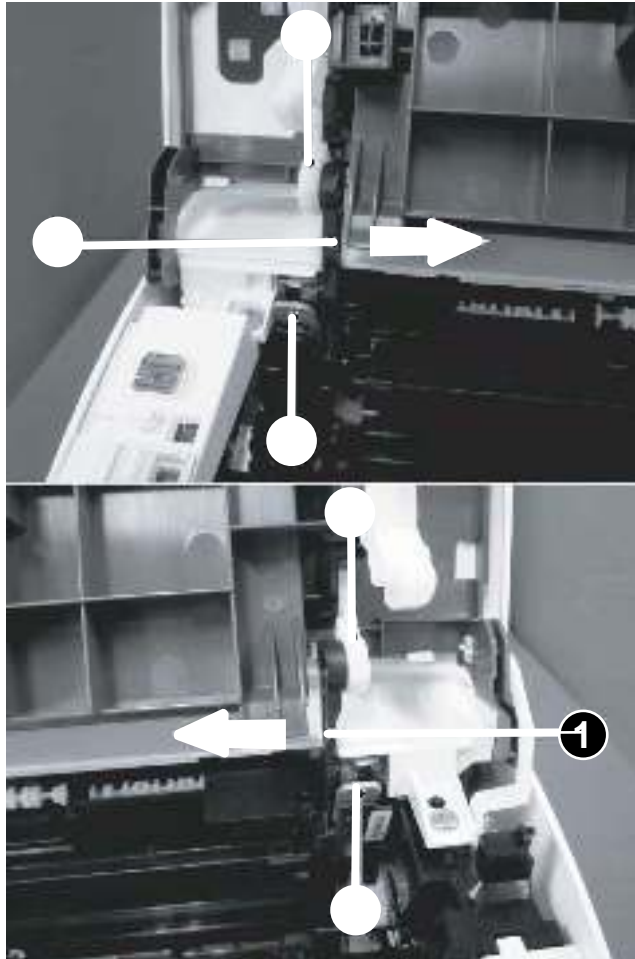


2. Before proceeding, take note of the following disassembly instructions.

When removing the link arm (callout 2) from the pressure release lever (callout 1), the pressure plate (callout 3) might be deformed if the pressure release lever moves in the direction shown below.

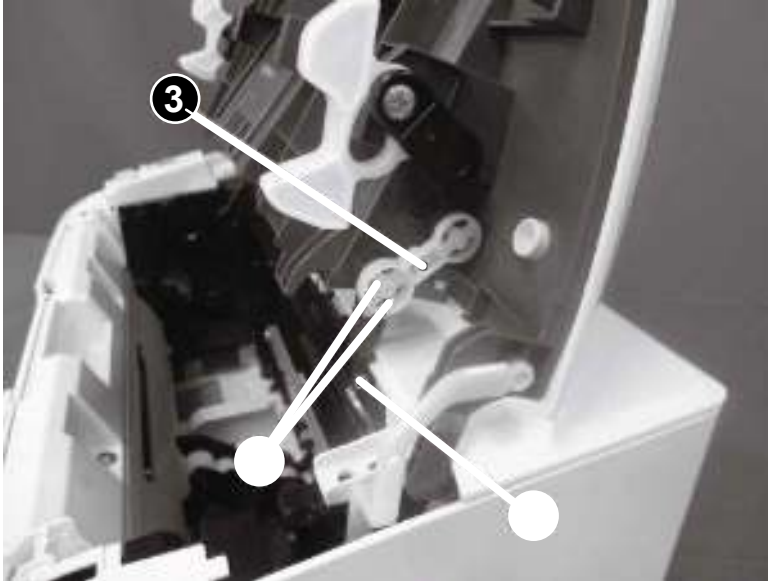
 **CAUTION:** Do not deform the pressure plate.

Figure 1-375 Special disassembly instructions



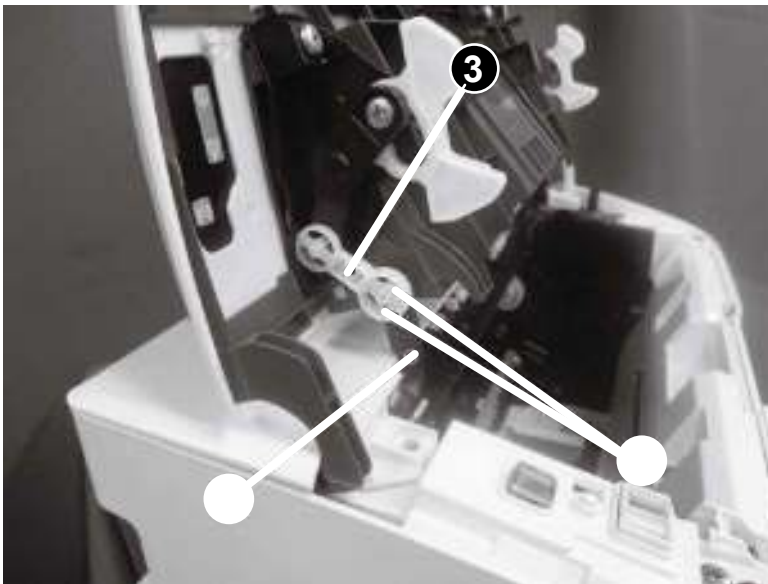
3. Release two tabs (callout 1), and then remove one link arm (callout 3) from the pressure release lever (callout 2).

Figure 1-376 Remove the link arm



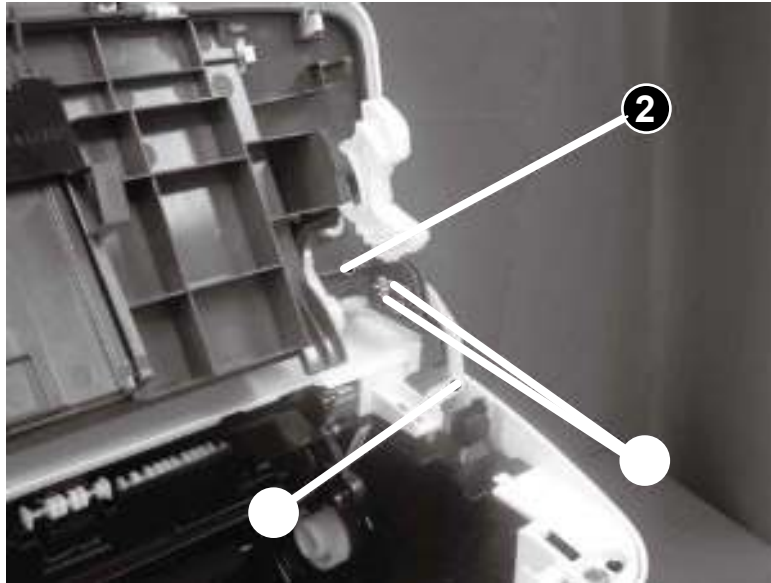
4. Release two tabs (callout 1), and then remove one link arm (callout 3) from the pressure release lever (callout 2).

Figure 1-377 Remove the link arm



5. Release two tabs (callout 1), and then remove one link arm (callout 3) from the cartridge door assembly (callout 2).

Figure 1-378 Remove the link arm



6. Release one tab (callout 1), support the cartridge door (callout 2), and then remove it.

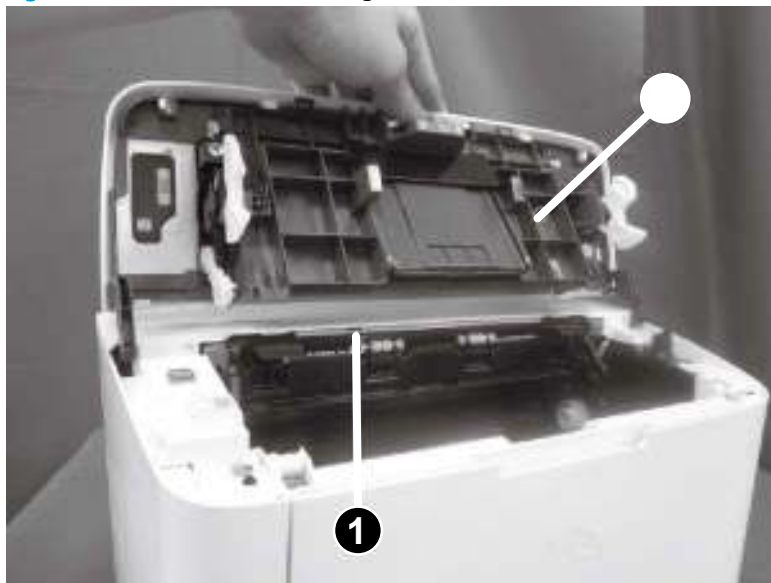


NOTE: If the cartridge door is removed to access other assembly, stop at this step.



Reinstallation tip: Reverse the removal steps to install the door.

Figure 1-379 Remove the cartridge door



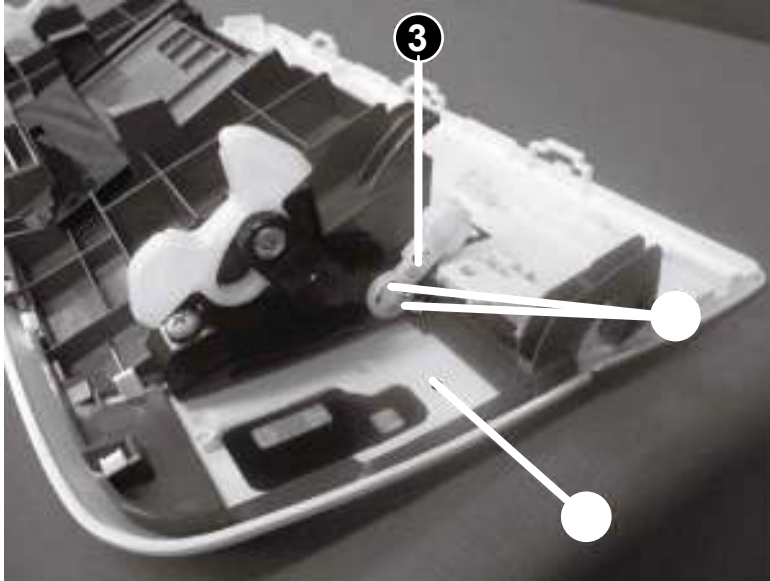
7. **Optional step:** If a replacement cartridge door is being installed, do the following:



NOTE: Install the link arms on the replacement door.

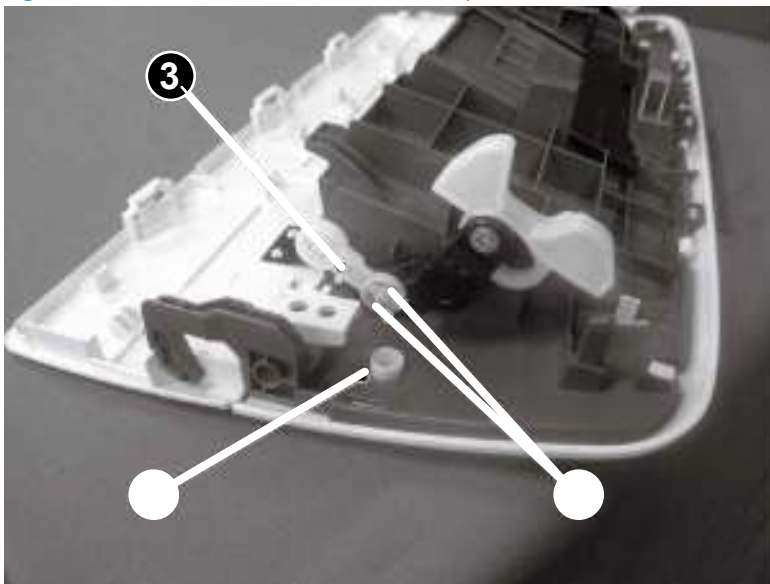
- a. Release two tabs (callout 1), and then remove the one link arm (callout 3) from the door assembly (callout 2).

Figure 1-380 Install the link arms on the replacement door




- b. Release two tabs (callout 1), and then remove the one link arm (callout 3) from the door assembly (callout 2).

Figure 1-381 Install the link arms on the replacement door



Step 2: Remove the formatter cover (M14-M17)

 **NOTE:** This step is for the M14-M17 printers. For all other printers, skip this step and go to [Step 4: Remove the formatter cover \(MFP M28-M31\) on page 303.](#)

- ▲ Position the printer front side down.

Release one tab (callout 1), and then remove the formatter cover (callout 2).


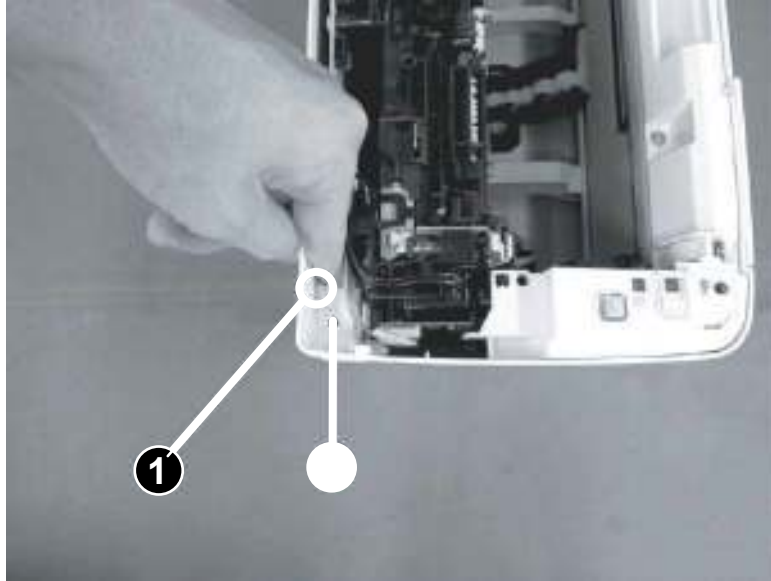

 **Reinstallation tip:** Reverse the removal steps to install the assembly.

Figure 1-382 Remove the formatter cover (M14-M17)

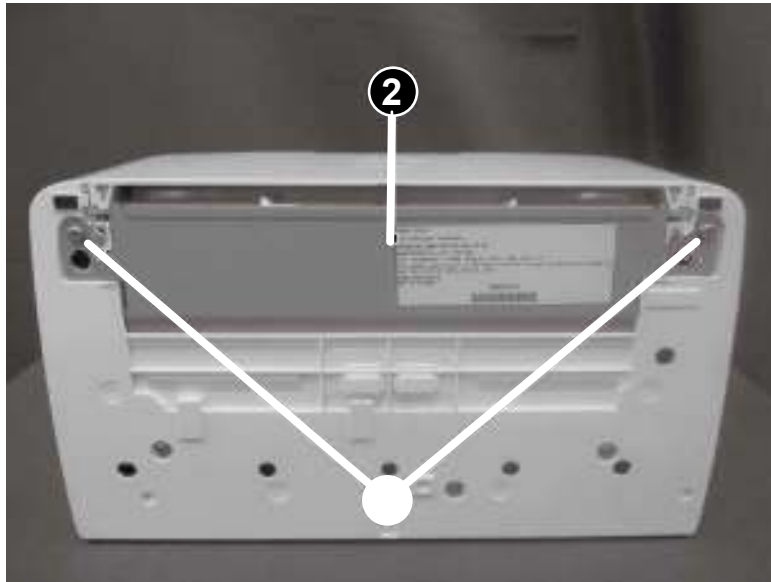


Step 3: Remove the lower cover (M14-M17)

 **NOTE:** This step is for the M14-M17 printers. For all other printers, skip this step and go to [Step 4: Remove the formatter cover \(MFP M28-M31\) on page 303](#).

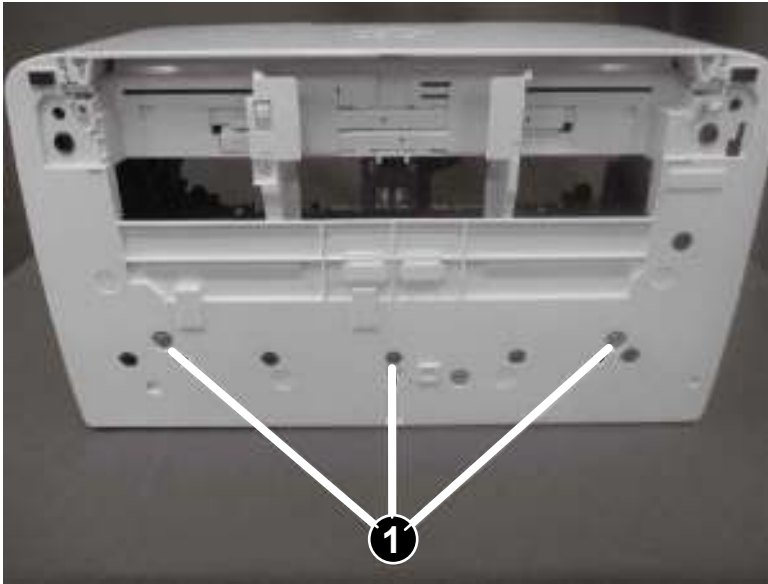
1. Position the printer rear side down, remove three screws (callout 1), and then remove the lower plate (callout 2).

Figure 1-383 Remove the lower plate



2. Remove three screws (callout 1)

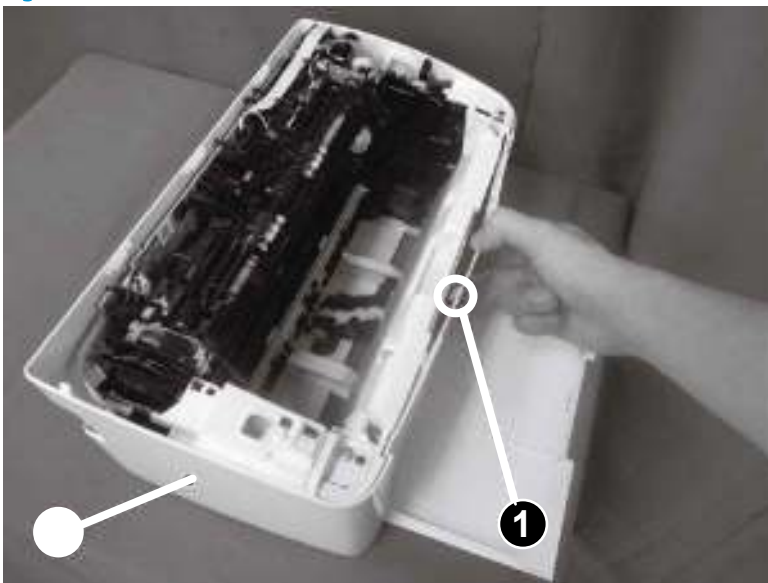
Figure 1-384 Remove the three screws



3. With the printer in the upright position, release one tab (callout 1), and then remove the lower cover (callout 2).

 **Reinstallation tip:** Reverse the removal steps to install the assembly.

Figure 1-385 Remove the lower cover



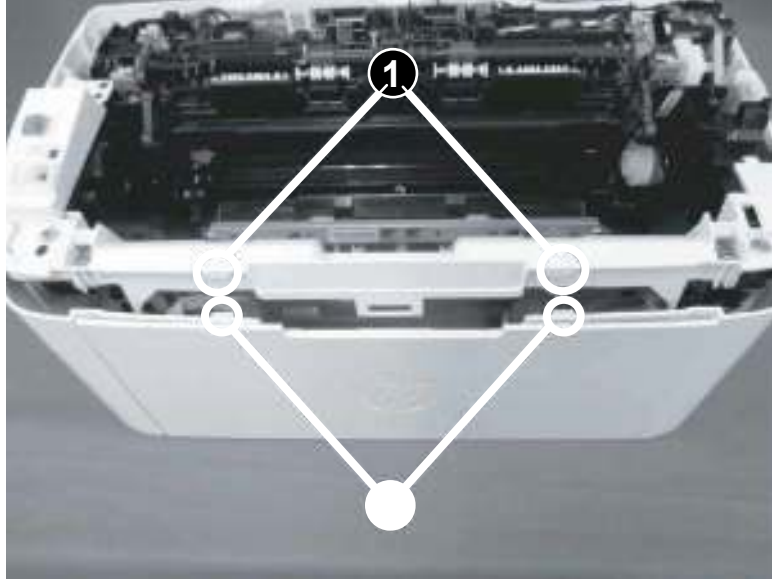
4. Reverse the removal steps to install the assembly. Also use the following special installation instructions.

 **NOTE:** Continue to reverse the removal steps to finish installing the assembly.


Special installation instructions: Lower cover

- ▲ Make sure to fit two ribs (callout 1) on the printer into the grooves (callout 2) in the lower cover.

Figure 1-386 Fit two ribs on the printer into the grooves (lower cover install)



Step 4: Remove the formatter cover (MFP M28-M31)

 **NOTE:** This step is for the MFP M28-M31 printers. For all other printers, skip this step and go to [Step 8: Remove the pickup solenoid on page 311](#).

- ▲ Position the printer front side down.

Remove two screws (callout 1), and then remove the formatter cover (callout 2).


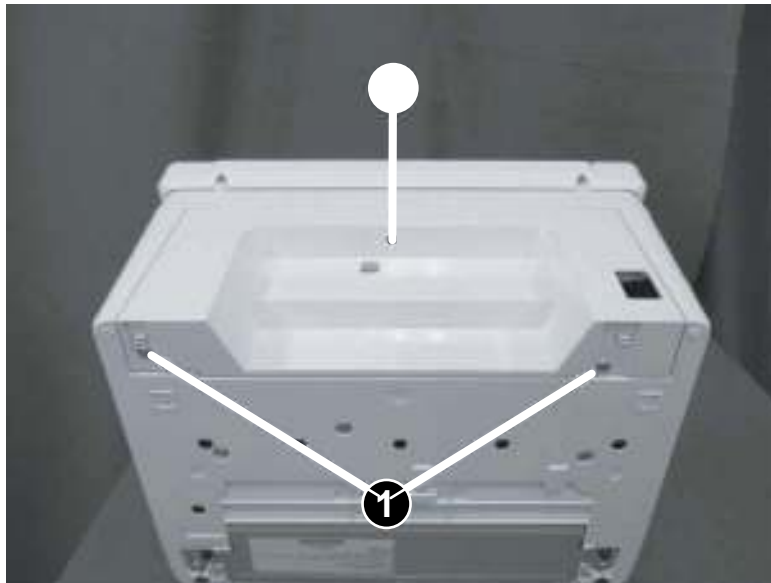

 **Reinstallation tip:** Reverse the removal steps to install the assembly.

Figure 1-387 Remove the formatter cover (MFP M28-M31)

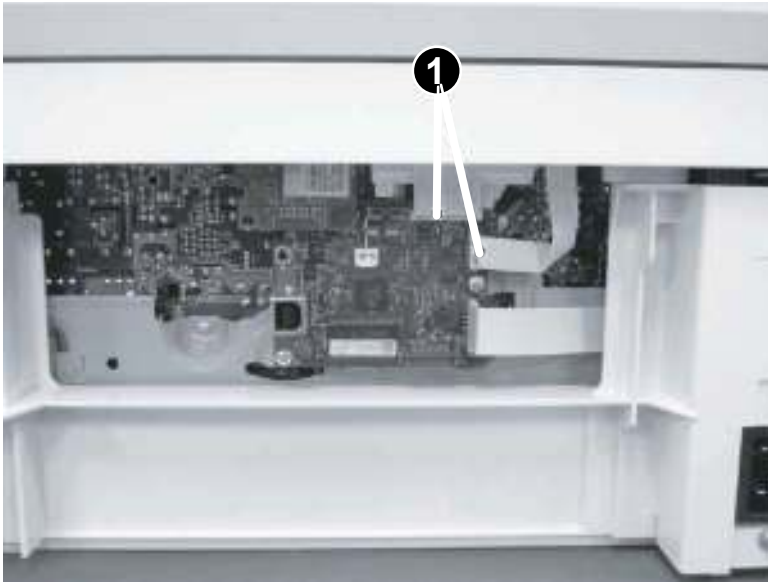


Step 5: Remove the image scanner (MFP M28-M31)

 **NOTE:** This step is for the MFP M28-M31 printers. For all other printers, skip this step and go to [Step 8: Remove the pickup solenoid on page 311](#).

1. Disconnect two flat flexible cables (FFCs) (callout 1).

Figure 1-388 Disconnect two FFCs

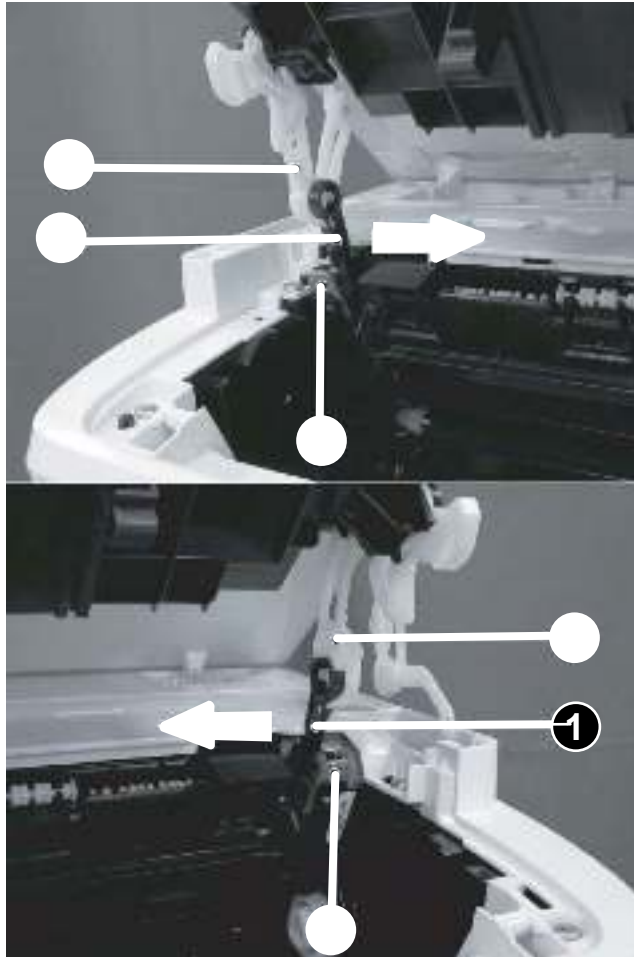


2. Before proceeding, take note of the following disassembly instructions.

When removing the link arm (callout 2) from the pressure release lever (callout 1), the pressure plate (callout 3) might be deformed if the pressure release lever moves in the direction shown below.

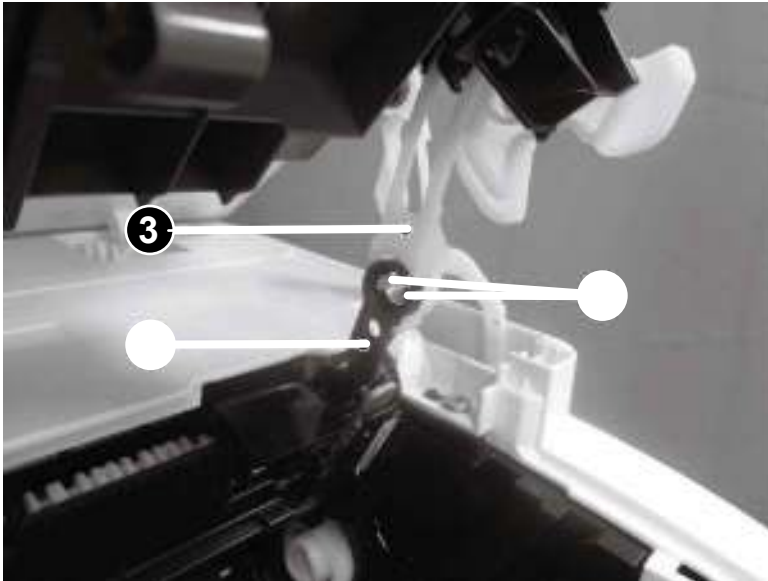
 **CAUTION:** Do not deform the pressure plate.

Figure 1-389 Special disassembly instructions



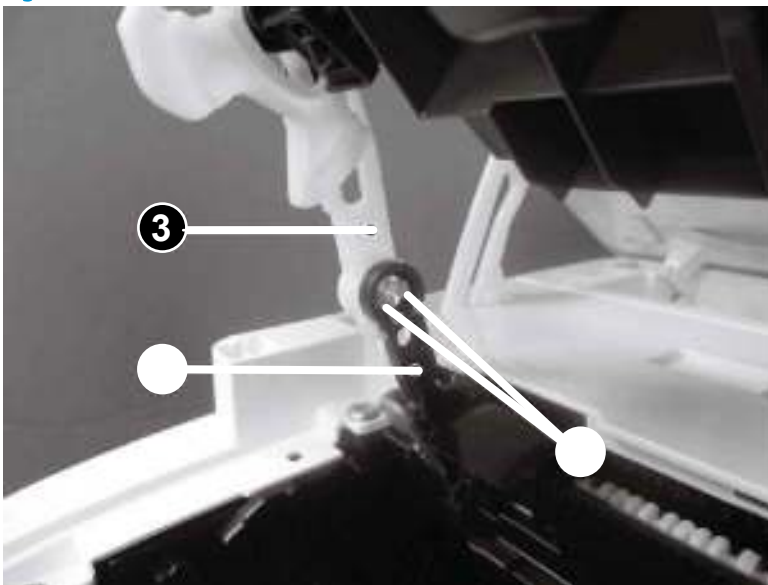
3. Open the image scanner, release two tabs (callout 1), remove one link arm (callout 3) from the pressure release lever (callout 2).

Figure 1-390 Remove the link arm



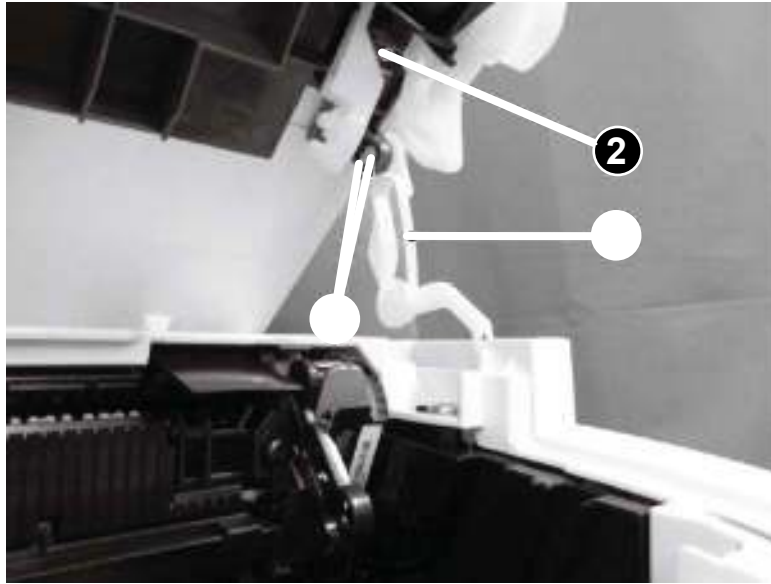
4. Release two tabs (callout 1), and then remove one link arm (callout 3) from the pressure release lever (callout 2).

Figure 1-391 Remove the link arm



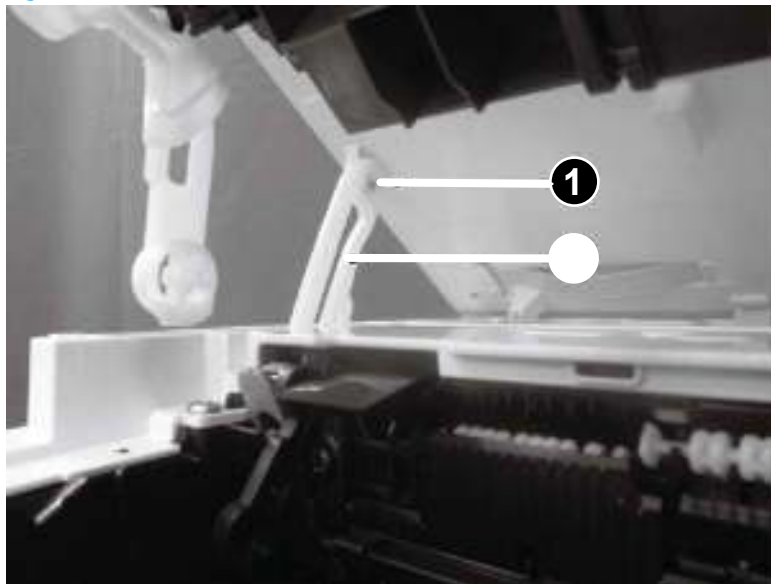
5. Release two tabs (callout 1), and then remove one link arm (callout 3) from the cartridge door (callout 2).

Figure 1-392 Remove the link arm



6. Remove one link arm (callout 2) from the shaft (callout 1).

Figure 1-393 Remove the link arm



7. Pull two flat-flexible cables (FFCs) (callout 2) out and away from the top cover (callout 1), and then slide the image scanner (callout 3) as shown below to remove it.

CAUTION: Do not damage the FFCs.

Reinstallation tip: Reverse the removal steps to install the assembly.

Figure 1-394 Remove the image scanner

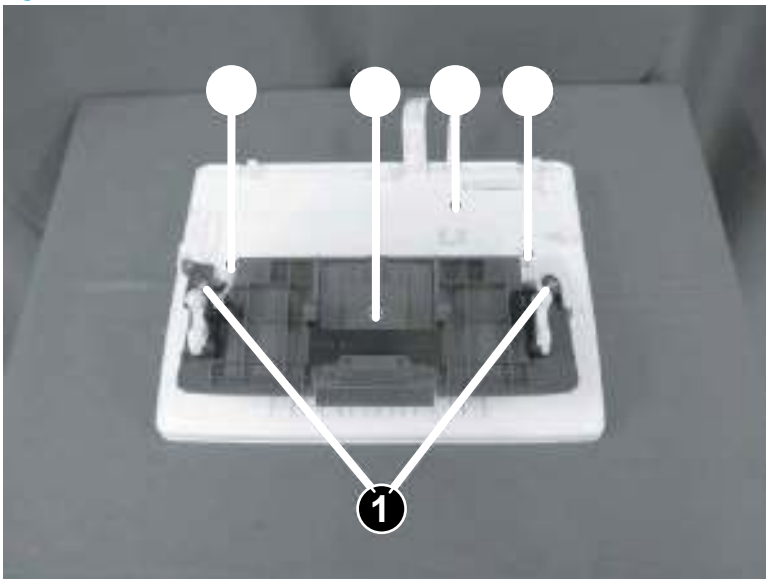


8. For a replacement image scanner, do the following:


NOTE: If the image scanner is removed to access other assemblies, skip this step.

- Remove two screws (callout 1).
- Remove the cartridge door (callout 3) (with the link arms; callout 4) from the image scanner (callout 2).

Figure 1-395 Remove the cartridge door



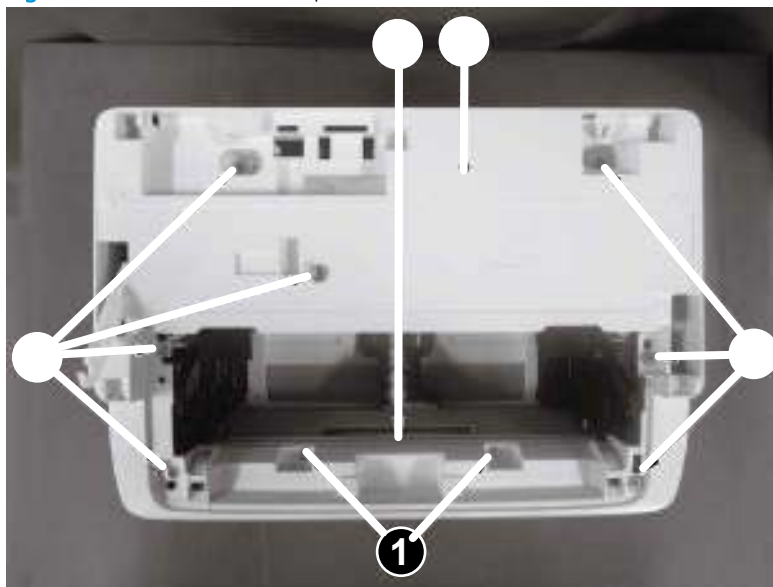
Step 6: Remove the top cover (MFP M28-M31)

 **NOTE:** This step is for the MFP M28-M31 printers. For all other printers, skip this step and go to [Step 8: Remove the pickup solenoid on page 311](#).

1. Remove two screws (M3; callout 1), remove seven screws (M4; callout 2), release one tab (callout 3), and then remove the top cover (callout 4).

 **Reinstallation tip:** Reverse the removal steps to install the assembly.

Figure 1-396 Remove the top cover



2. Reverse the removal steps to install the assembly. Also use the following special installation instructions.

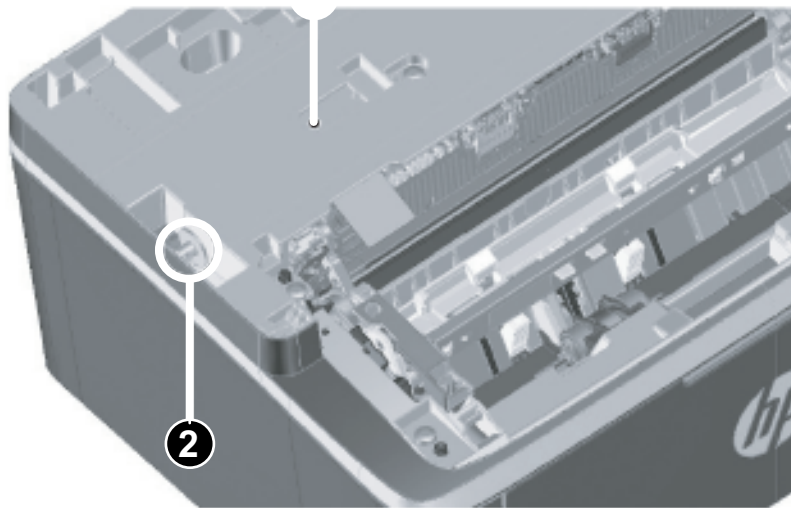
 **NOTE:** Continue to reverse the removal steps to finish installing the assembly.

 **TIP:** If the top cover is removed to access other assemblies, skip this step.


Special installation instructions: Top cover

- ▲ Remove the pad (callout 2) from the top cover (callout 1), and then install it on the replacement top cover.

Figure 1-397 Install the pad

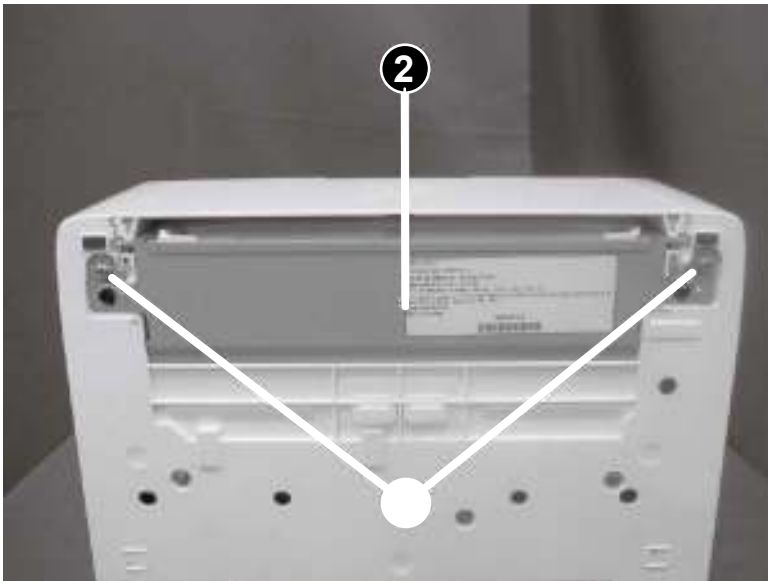


Step 7: Remove the lower cover (MFP M28-M31)

 **NOTE:** This step is for the MFP M28-M31 printers. For all other printers, skip this step and go to [Step 8: Remove the pickup solenoid on page 311](#).

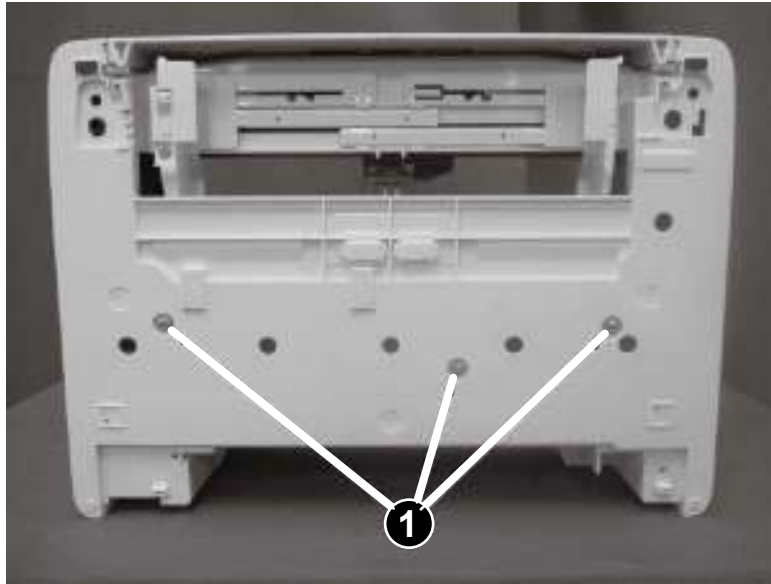
1. Position the printer rear side down, remove two screws (callout 1), and then remove the lower plate (callout 2)

Figure 1-398 Remove the lower plate



2. Remove three screws (callout 1).

Figure 1-399 Remove three screws



3. Remove two screws (callout 1), and then remove the lower cover (callout 2).


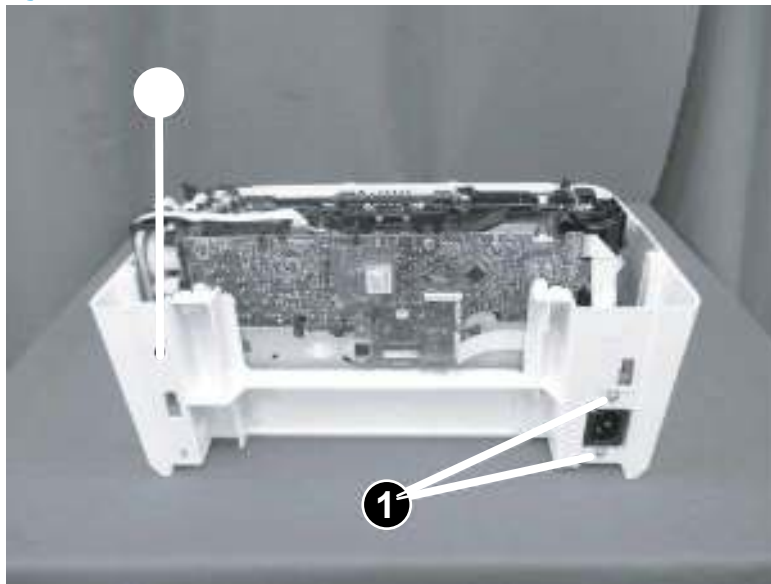
 **Reinstallation tip:** Reverse the removal steps to install the assembly.


Figure 1-400 Remove the lower cover



Step 8: Remove the pickup solenoid

- ▲ Do the following:
 - a. Disconnect one connector (callout 1).
 - b. Release the wire harness (callout 3) from the retainer (callout 2).

- c. Remove one screw (callout 4).
- d. Remove the pickup solenoid (callout 5).

 **Reinstallation tip:** Make sure that the hook on the replacement solenoid (callout 6) is correctly installed on the mounting base.


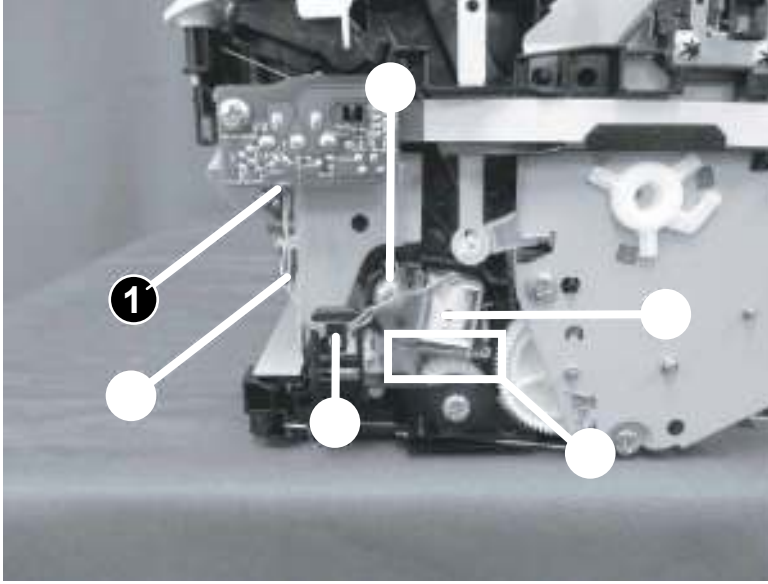
 **Reinstallation tip:** Reverse the removal steps to install the assembly.

Figure 1-401 Remove the pickup solenoid



Step 9: Unpack the replacement assembly

1. Dispose of the defective part.

 **NOTE:** HP recommends responsible disposal of the defective part.

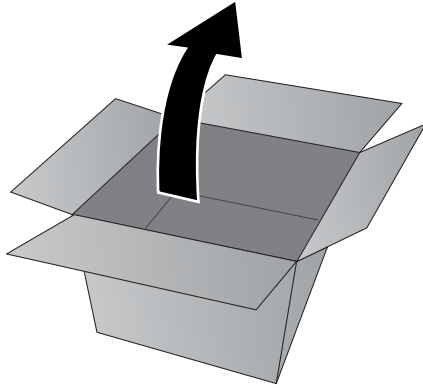
www.hp.com/recycle



2. Unpack the replacement part from the packaging.

⚠ CAUTION: If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands or before touching rollers or pads.

📋 IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.



Remove and replacement: Wireless PCA (M14-M17)

- [Introduction](#)
- [Step 1: Remove the cartridge door \(M14-M17\)](#)
- [Step 2: Remove the formatter cover \(M14-M17\)](#)
- [Step 3: Remove the lower cover \(M14-M17\)](#)
- [Step 4: Remove the formatter \(M14-M17\)](#)
- [Step 4: Remove the wireless PCA \(M14-M17\)](#)
- [Step 5: Unpack the replacement assembly](#)

Introduction

This document provides the procedures to remove and replace the wireless PCA (M14-M17).



IMPORTANT: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Before performing service

- Turn the printer power off.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts

Wireless PCA (M14-M17) part number	
1150-7969	Wireless PCA (M14-M17)

Required tools

- #2 Phillips screwdriver with a magnetic tip
- Small flat blade screw driver (optional)

After performing service

- Turn the printer power on.

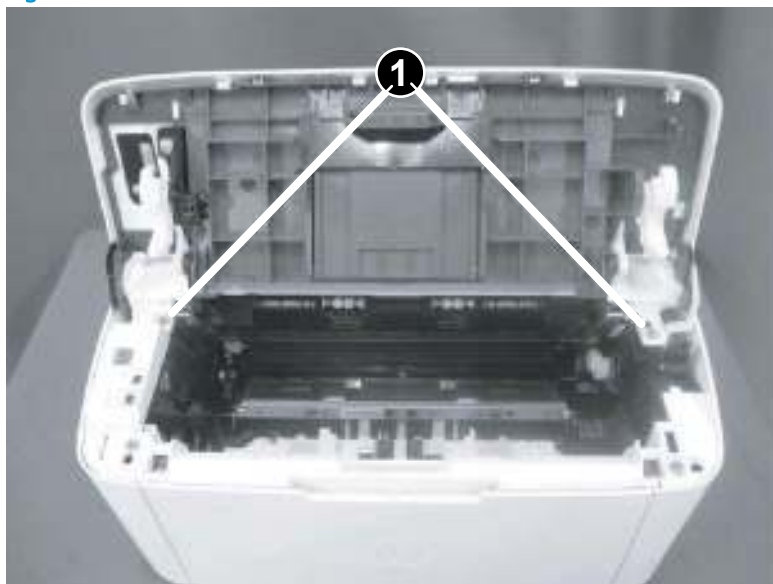
Post service test

Send a job to the printer using wireless printing, and then verify that the job is processed.

Step 1: Remove the cartridge door (M14-M17)

1. Open the cartridge door, and then remove two screws (callout 1).

Figure 1-402 Remove two screw

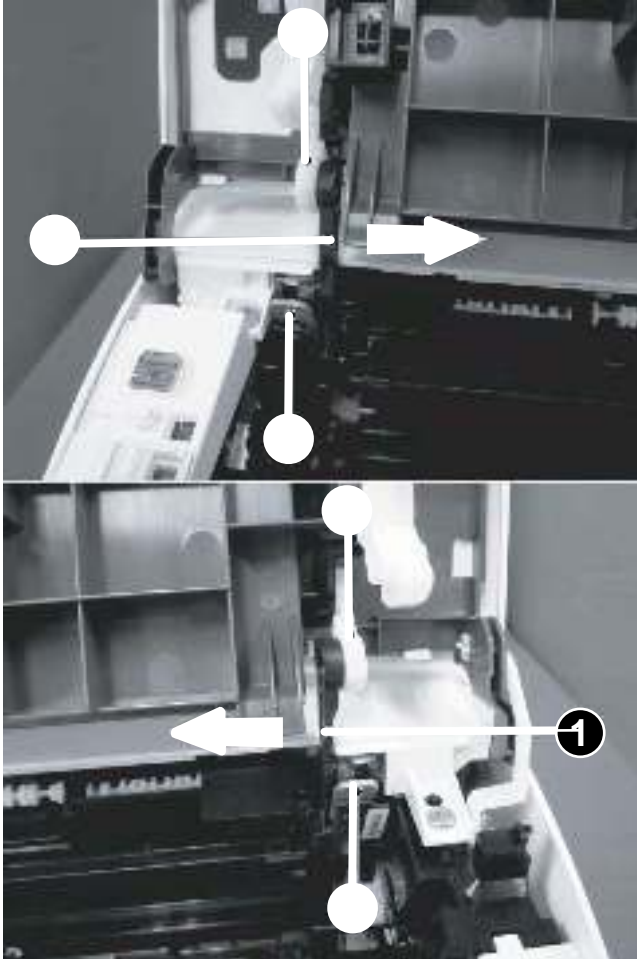


2. Before proceeding, take note of the following disassembly instructions.

When removing the link arm (callout 2) from the pressure release lever (callout 1), the pressure plate (callout 3) might be deformed if the pressure release lever moves in the direction shown below.

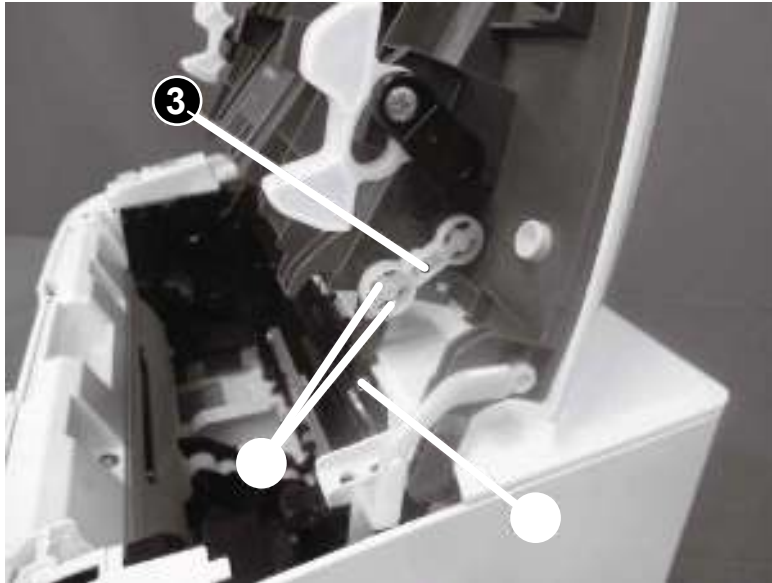
 **CAUTION:** Do not deform the pressure plate.

Figure 1-403 Special disassembly instructions



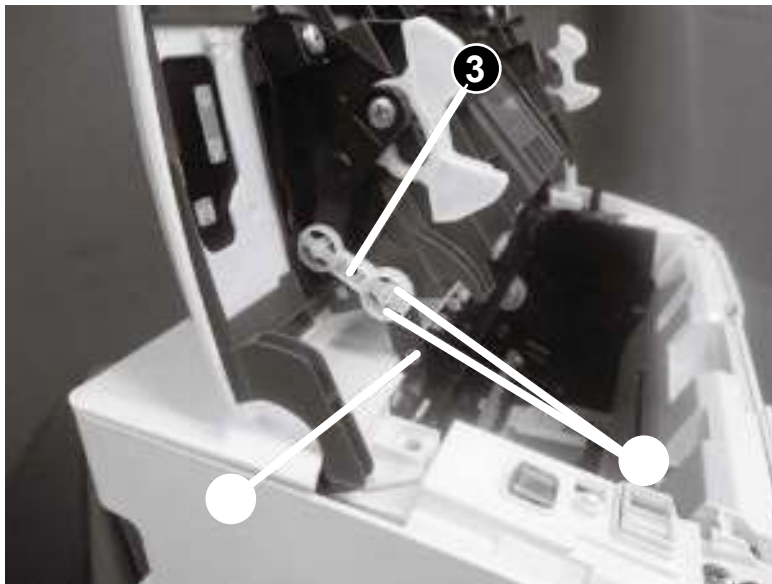
3. Release two tabs (callout 1), and then remove one link arm (callout 3) from the pressure release lever (callout 2).

Figure 1-404 Remove the link arm



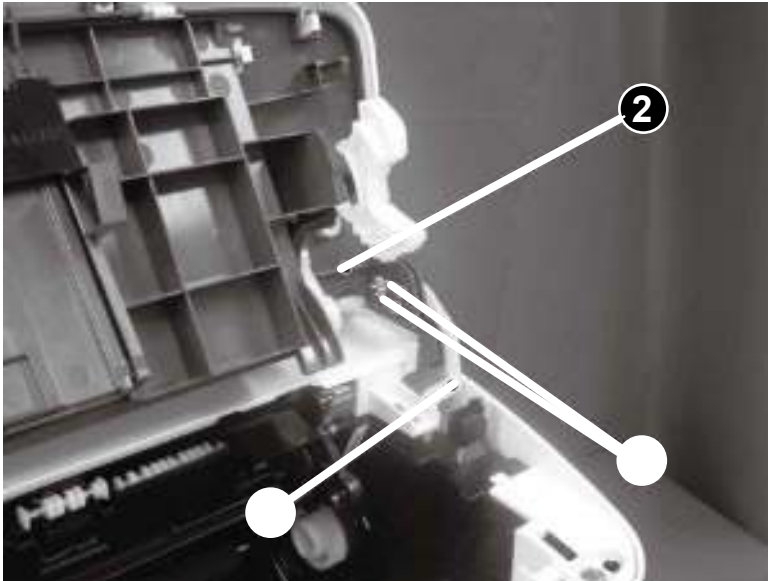
4. Release two tabs (callout 1), and then remove one link arm (callout 3) from the pressure release lever (callout 2).

Figure 1-405 Remove the link arm




5. Release two tabs (callout 1), and then remove one link arm (callout 3) from the cartridge door assembly (callout 2).

Figure 1-406 Remove the link arm

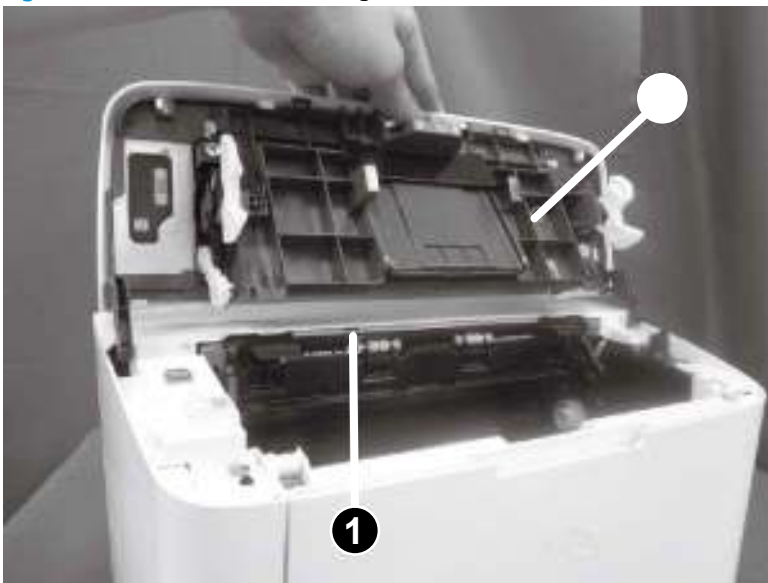


6. Release one tab (callout 1), support the cartridge door (callout 2), and then remove it.

 **NOTE:** If the cartridge door is removed to access other assembly, stop at this step.

 **Reinstallation tip:** Reverse the removal steps to install the door.

Figure 1-407 Remove the cartridge door

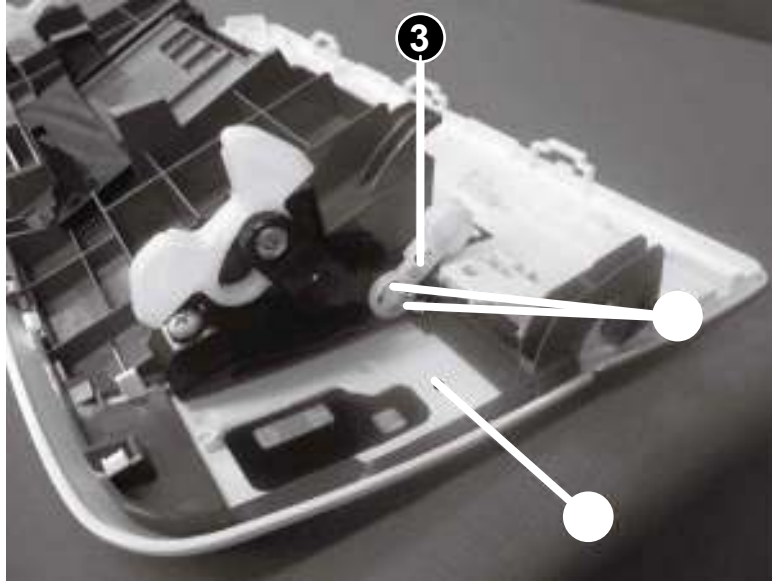


7. **Optional step:** If a replacement cartridge door is being installed, do the following:

 **NOTE:** Install the link arms on the replacement door.

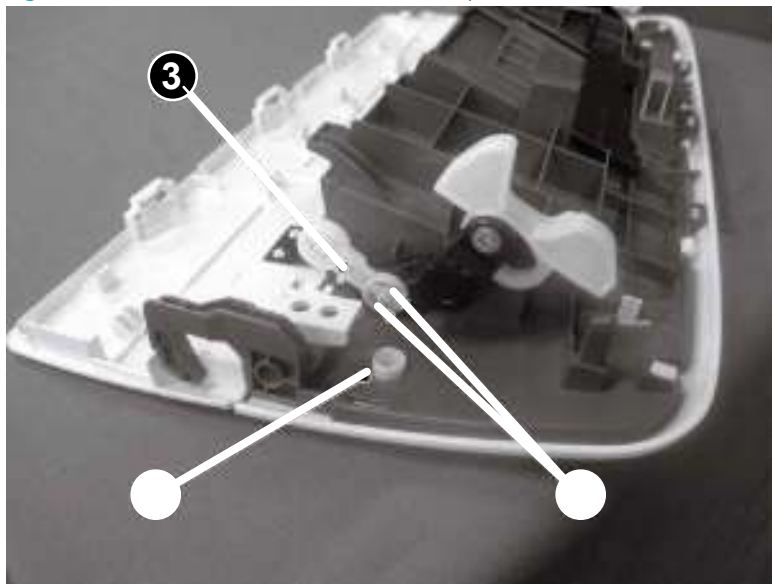
- a. Release two tabs (callout 1), and then remove the one link arm (callout 3) from the door assembly (callout 2).

Figure 1-408 Install the link arms on the replacement door



- b. Release two tabs (callout 1), and then remove the one link arm (callout 3) from the door assembly (callout 2).

Figure 1-409 Install the link arms on the replacement door



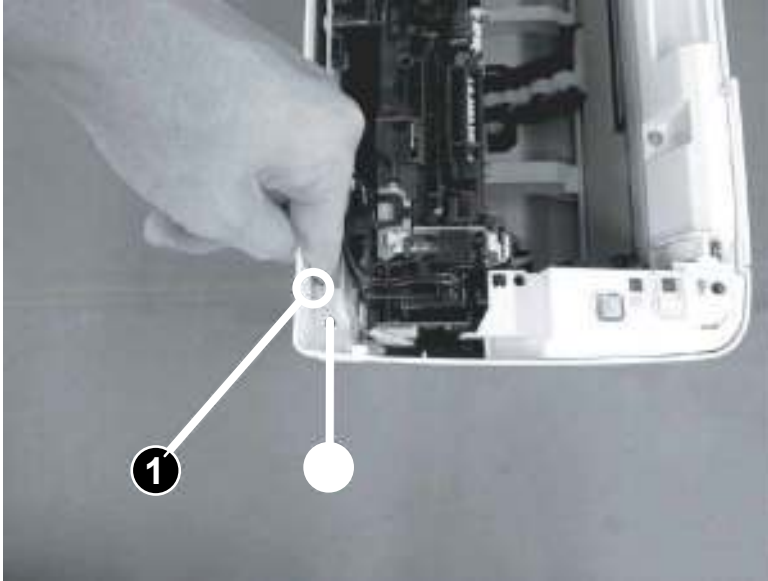
Step 2: Remove the formatter cover (M14-M17)

- ▲ Position the printer front side down.

Release one tab (callout 1), and then remove the formatter cover (callout 2).

💡 **Reinstallation tip:** Reverse the removal steps to install the assembly.

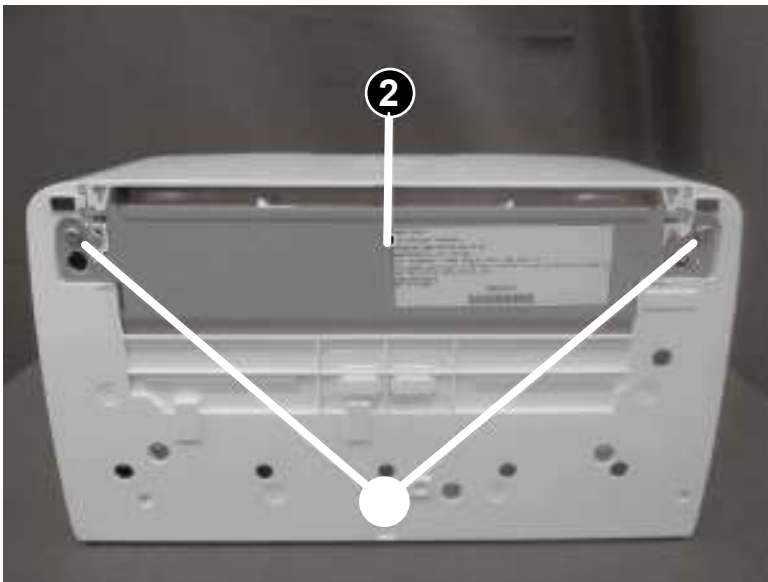
Figure 1-410 Remove the formatter cover (M14-M17)



Step 3: Remove the lower cover (M14-M17)

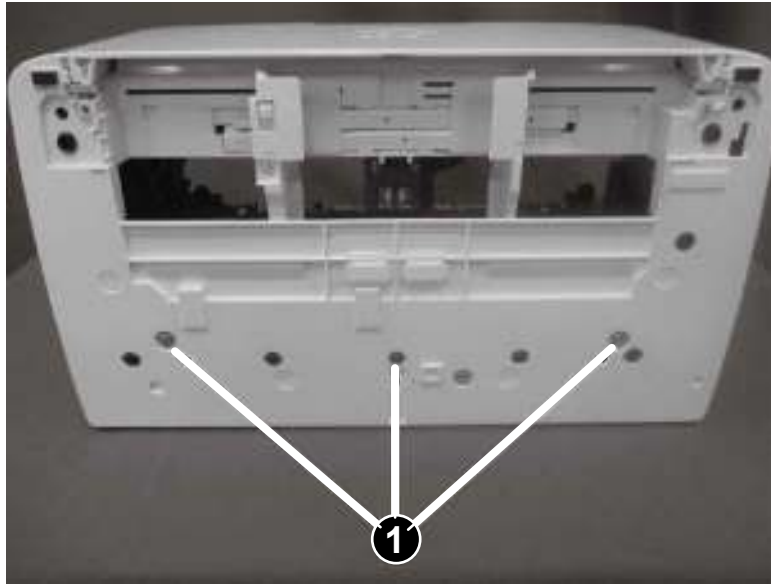
1. Position the printer rear side down, remove three screws (callout 1), and then remove the lower plate (callout 2).

Figure 1-411 Remove the lower plate



2. Remove three screws (callout 1)

Figure 1-412 Remove the three screws



3. With the printer in the upright position, release one tab (callout 1), and then remove the lower cover (callout 2).


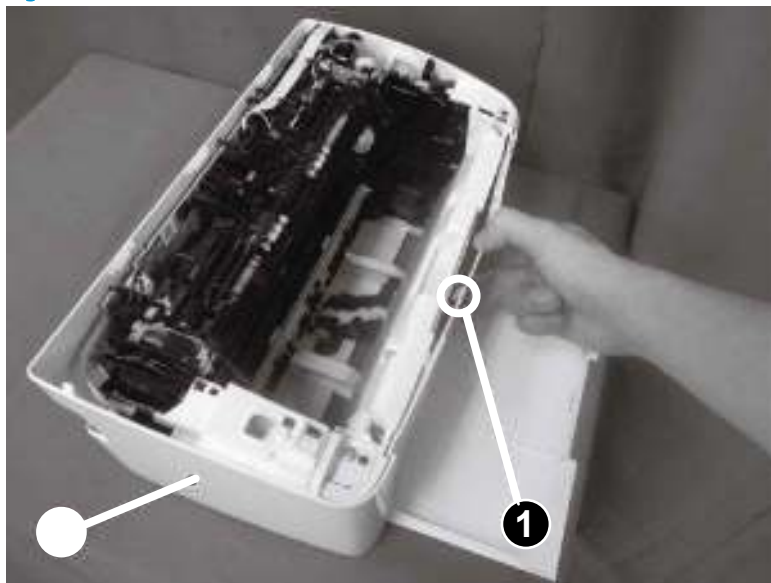
 **Reinstallation tip:** Reverse the removal steps to install the assembly.

Figure 1-413 Remove the lower cover



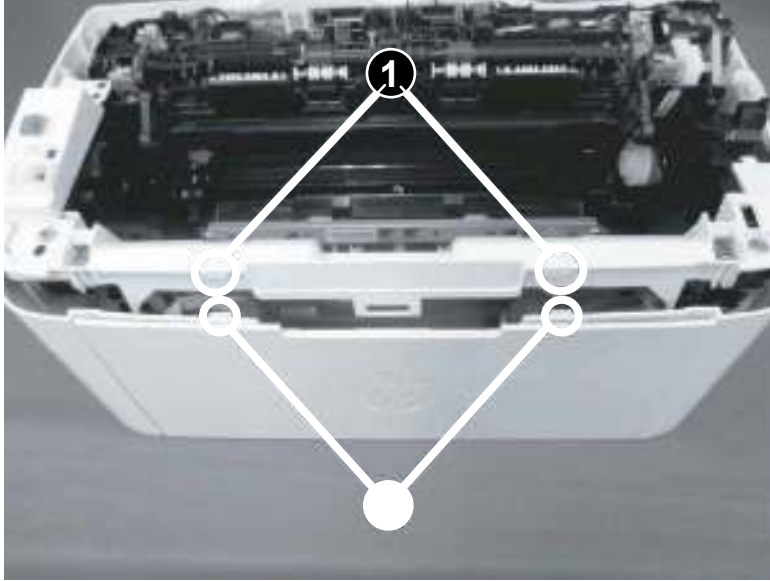
4. Reverse the removal steps to install the assembly. Also use the following special installation instructions.

 **NOTE:** Continue to reverse the removal steps to finish installing the assembly.

Special installation instructions: Lower cover

- ▲ Make sure to fit two ribs (callout 1) on the printer into the grooves (callout 2) in the lower cover.

Figure 1-414 Fit two ribs on the printer into the grooves (lower cover install)



Step 4: Remove the formatter (M14-M17)

▲ Do the following:

- a. Remove two flat flexible cables (FFCs) (callout 1).

💡 **TIP:** It might be easier to use a small flat blade screwdriver to release the large FFC.

- b. Remove one screw (callout 2).

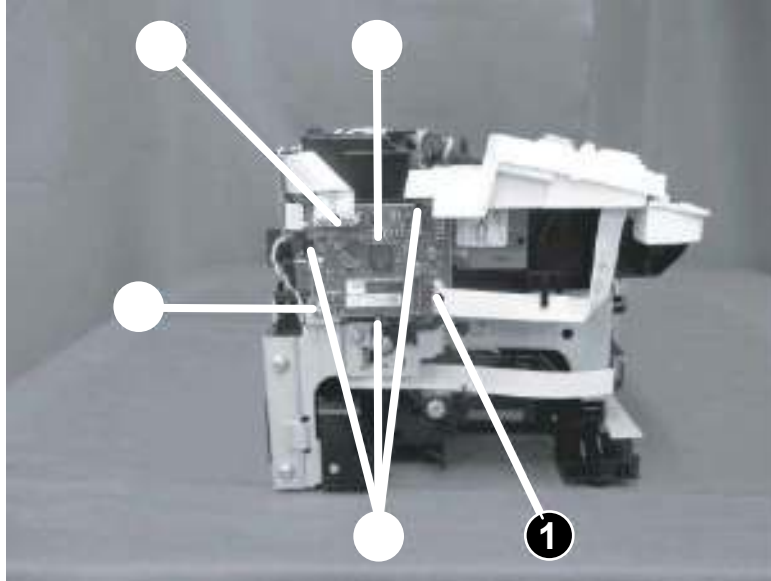
📝 **NOTE:** Use a micro tip screwdriver to remove this screw.

- c. Release three tabs (callout 3).

- d. Remove the formatter (callout 4).

💡 **Reinstallation tip:** Reverse the removal steps to install the assembly.

Figure 1-415 Remove the formatter



Step 4: Remove the wireless PCA (M14-M17)

- ▲ Turn the formatter (callout 1) over, and then pull the wireless PCA (callout 2) straight up and off of the formatter to remove it.


 **Reinstallation tip:** Reverse the removal steps to install the assembly.

Figure 1-416 Remove the wireless PCA (M14-M17)



Step 5: Unpack the replacement assembly

1. Dispose of the defective part.

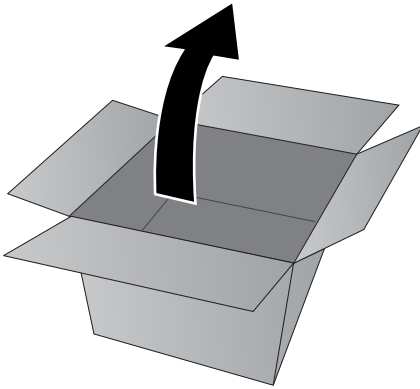
 **NOTE:** HP recommends responsible disposal of the defective part.

www.hp.com/recycle

2. Unpack the replacement part from the packaging.

⚠ CAUTION: If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands or before touching rollers or pads.

📋 IMPORTANT: Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.



Remove and replacement: Wireless PCA (MFP M28-M31)

- [Introduction](#)
- [Step 1: Remove the formatter cover \(MFP M28-M31\)](#)
- [Step 2: Remove the wireless PCA \(MFP M28-M31\)](#)
- [Step 3: Unpack the replacement assembly](#)

Introduction

This document provides the procedures to remove and replace the wireless PCA (MFP M28-M31).



IMPORTANT: When applicable, special installation instructions are provided for an assembly at the end of the removal procedure. Always completely read the removal instructions and follow all special installation instructions.

Before performing service

- Turn the printer power off.

Use the table below to identify the correct part number for your printer. To order the part, go to www.hp.com/buy/parts

Wireless PCA (MFP M28-M31) part number	
1150-7969	Wireless PCA (MFP M28-M31)

Required tools

- #2 Phillips screwdriver with a magnetic tip

After performing service

- Turn the printer power on.

Post service test

Send a job to the printer using wireless printing, and then verify that the job is processed.

Step 1: Remove the formatter cover (MFP M28-M31)

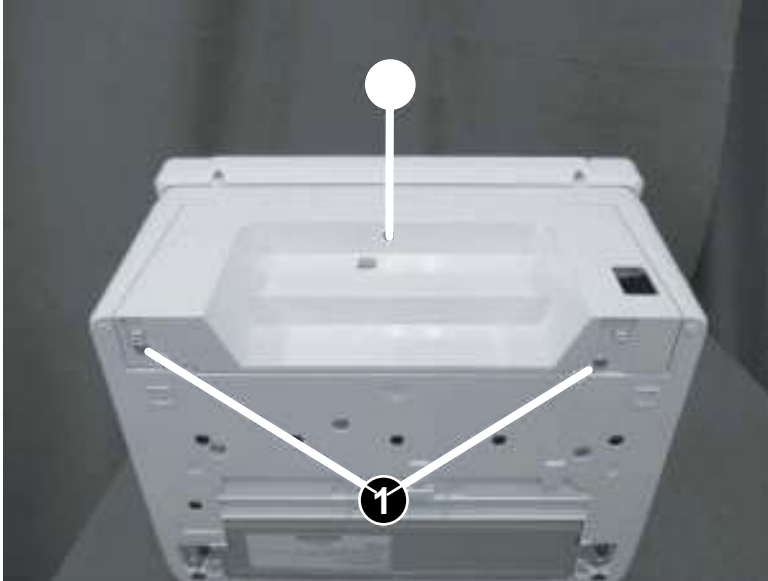
- ▲ Position the printer front side down.

Remove two screws (callout 1), and then remove the formatter cover (callout 2).



Reinstallation tip: Reverse the removal steps to install the assembly.

Figure 1-417 Remove the formatter cover (MFP M28-M31)



Step 2: Remove the wireless PCA (MFP M28-M31)

- ▲ Locate the wireless PCA (callout 1), support the corner of the formatter (callout 2), and then pull the PCA straight off of the formatter to remove it.

CAUTION: To avoid damage to the formatter by over flexing it, make sure that the corner is supported (callout 2) when removing or installing the wireless PCA.


Reinstallation tip: Reverse the removal steps to install the assembly.

Figure 1-418 Remove the wireless PCA (MFP M28-M31)

1

Step 3: Unpack the replacement assembly


1. Dispose of the defective part.

 **NOTE:** HP recommends responsible disposal of the defective part.

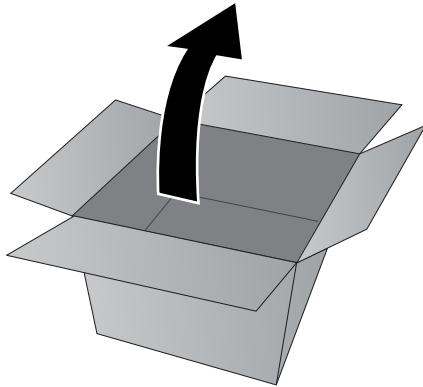
www.hp.com/recycle



2. Unpack the replacement part from the packaging.

 **CAUTION:** If the replacement part is a roller or pad, avoid touching the spongy part of it. Skin oils on the roller or pad can cause paper pickup and/or print-quality problems. HP recommends using disposable gloves when handling rollers or pads or washing your hands or before touching rollers or pads.

 **IMPORTANT:** Make sure that all of the shipping materials (for example shipping tape) are removed from the replacement part prior to installation.



2 Parts and diagrams

- [For additional service and support](#)
- [Assembly locations](#)
- [Order parts, accessories, and supplies](#)
- [How to use the parts lists and diagrams](#)
- [Covers](#)
- [Internal components](#)
- [Alphabetical parts list](#)
- [Numerical parts list](#)

For additional service and support

HP service personnel, go to one of the following Web-based Interactive Search Engines (WISE) sites:

AMS

- <https://support.hp.com/wise/home/ams-en>
- <https://support.hp.com/wise/home/ams-es>
- <https://support.hp.com/wise/home/ams-pt>

APJ

- <https://support.hp.com/wise/home/api-en>
- <https://support.hp.com/wise/home/api-ja>
- <https://support.hp.com/wise/home/api-ko>
- <https://support.hp.com/wise/home/api-zh-Hans>
- <https://support.hp.com/wise/home/api-zh-Hant>

EMEA

- <https://support.hp.com/wise/home/emea-en>

Channel partners, go to HP Channel Services Network (CSN) at www.hp.com/partners/csn.

At these locations, find information on the following topics:

- Install and configure
- Printer specifications
- Up-to-date control panel message (CPMD) troubleshooting
- Solutions for printer issues and emerging issues
- Remove and replace part instructions and videos
- Service advisories
- Warranty and regulatory information

Channel partners, access training materials in the HP University and Partner Learning Center at <https://content.ext.hp.com/sites/LMS/HPU.page>.

To access HP PartSurfer information from any mobile device, go to <http://partsurfermobile.hp.com/> or scan the Quick Response (QR) code below.

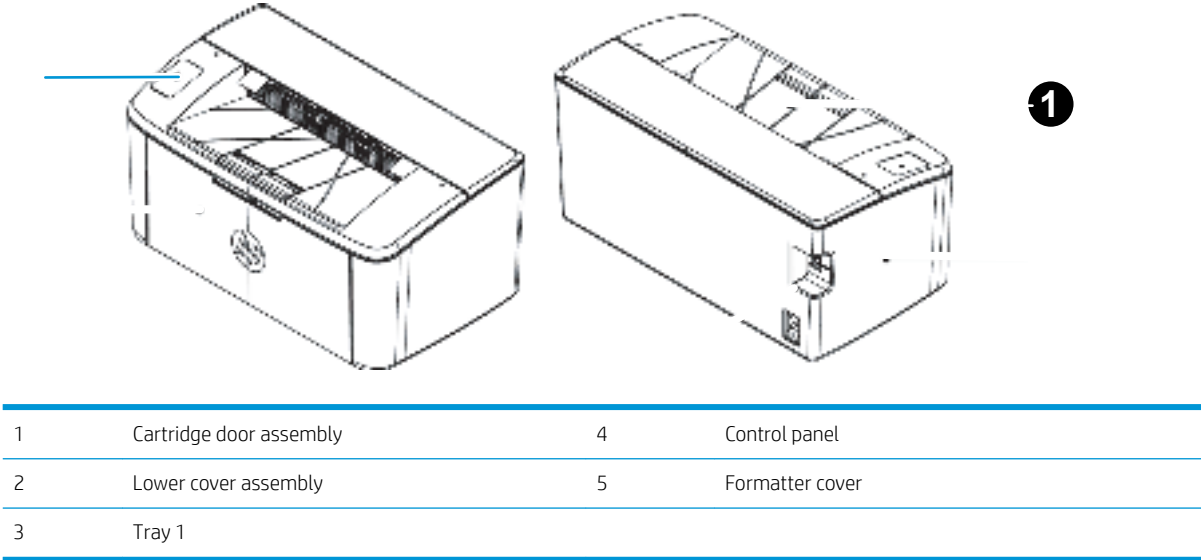


Assembly locations

External panels, doors, and covers

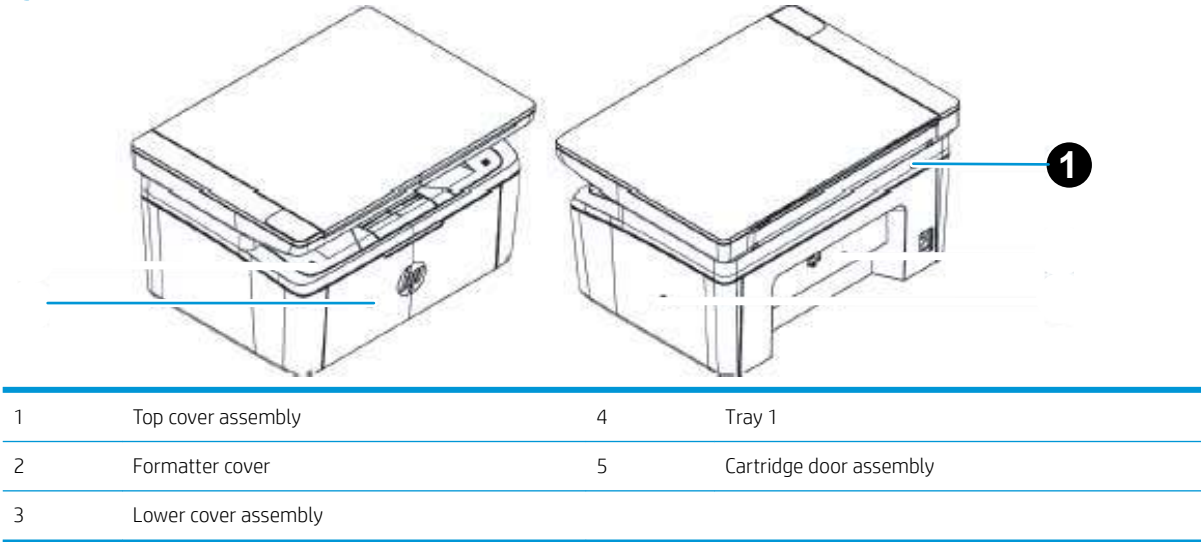
M14-M17

Figure 2-1 External panels, doors, and covers (M14-M17)



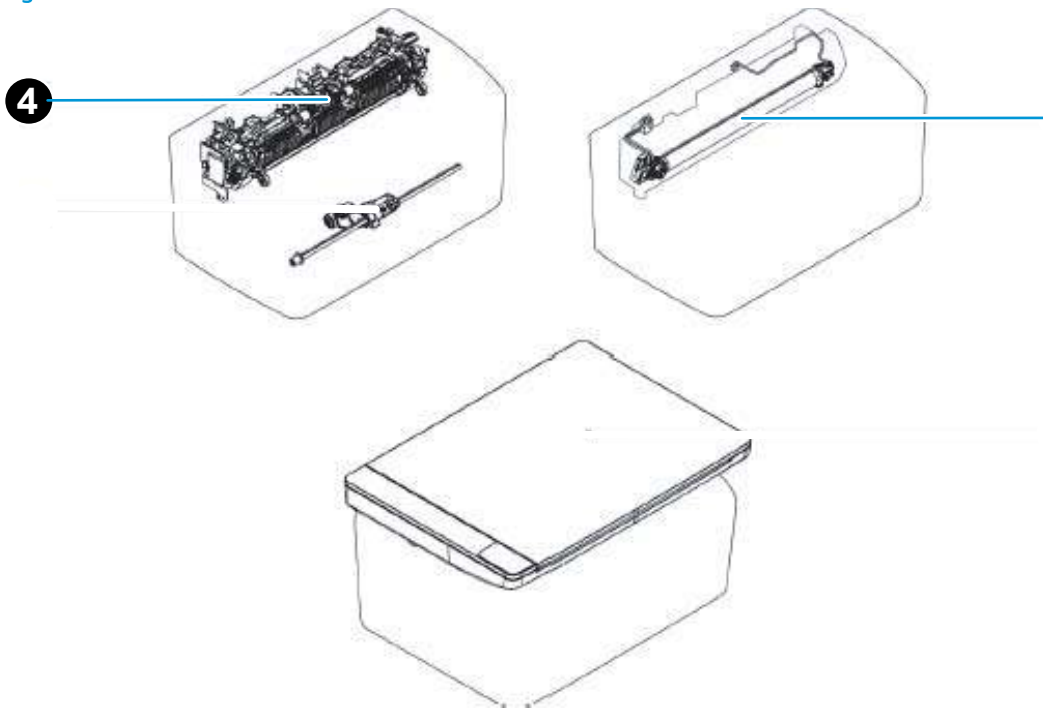
MFP M28-M31

Figure 2-2 External panels, doors, and covers (MFP M28-M31)



Main assemblies

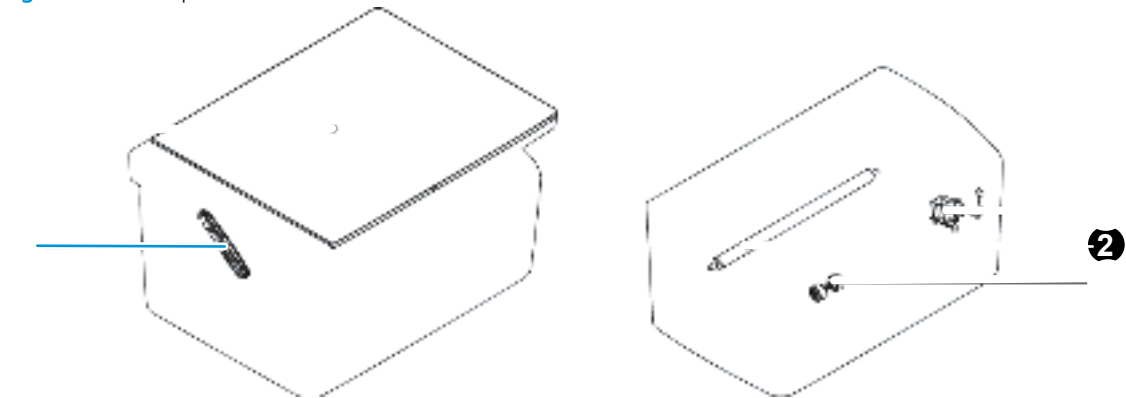
Figure 2-3 Main assemblies



1	Fuser film assembly	3	Pickup roller arm assembly
2	Image scanner (MFP M28-M31 only)	4	Fuser

Main parts

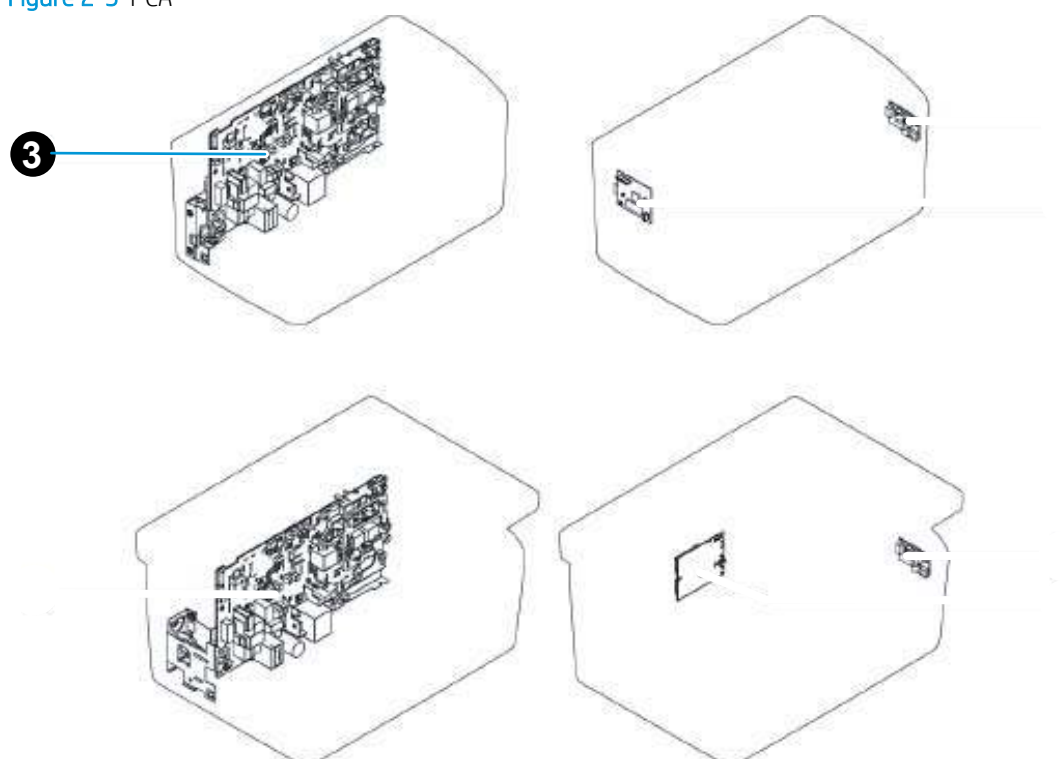
Figure 2-4 Main parts



1	Pickup solenoid	4	Hinge link (M28-M31)
2	Transfer roller	5	Document lid (M28-M31)
3	Pickup roller		

PCA

Figure 2-5 PCA



1	Door switch PCA	3	Engine controller assembly
2	Formatter PCA		

Order parts, accessories, and supplies

Ordering

Order supplies and paper	www.hp.com/go/suresupply
Order genuine HP parts or accessories	www.hp.com/buy/parts
	or
	partsurfer.hp.com
Order through service or support providers	Contact an HP-authorized service or support provider.
Order using the HP Embedded Web Server (EWS)	To access, in a supported Web browser on your computer, enter the printer IP address or host name in the address/URL field. The EWS contains a link to the HP SureSupply Web site, which provides options for purchasing Original HP supplies.

Orderable parts

Not all of the parts shown in the diagrams in this chapter can be ordered. Refer to the table following the diagram or the parts lists at the end of this chapter to determine if a part is orderable.

Supplies

Following are the part numbers for the supplies available for the printers.

Table 2-6 Supplies

Item	Cartridge number	Description	Part number (new)	Part number (service)
Supplies (M14-M17 and MFP M28-M31)				
HP Black Original LaserJet Toner Cartridge	HP 44A Black Toner Cartridge	Europe, Russia, CIS, Middle East, and Africa only	CF244A	CF244-67901
	HP 48A Black Toner Cartridge	North America, Latin America, Asia Pacific Countries/Regions (excluding China and India) only	CF248A	CF248-67901
	HP 47A Black Toner Cartridge	China and India only	CF247A	CF247-67901

Customer self-repair parts

Customer Self-Repair (CSR) parts are available for many HP LaserJet printers to reduce repair time. More information about the CSR program and benefits can be found at www.hp.com/go/csr-support and www.hp.com/go/csr-faq.

Genuine HP replacement parts can be ordered at www.hp.com/buy/parts or by contacting an HP-authorized service or support provider. When ordering, one of the following will be needed: part number, serial number (found on back of printer), printer number, or printer name.

- Parts listed as **Mandatory** self-replacement are to be installed by customers, unless you are willing to pay HP service personnel to perform the repair. For these parts, on-site or return-to-depot support is not provided under the HP printer warranty.
- Parts listed as **Optional** self-replacement can be installed by HP service personnel at your request for no additional charge during the printer warranty period.

Item	Description	Self-replacement options	Part number
HP Black Original LaserJet Toner Cartridge	Replacement toner cartridge with instruction guide	Mandatory	See Table 2-6 Supplies on page 334 .

Related documentation and software

HP service personnel, go to one of the following Web-based Interactive Search Engines (WISE) sites:

AMS

- <https://support.hp.com/wise/home/ams-en>
- <https://support.hp.com/wise/home/ams-es>
- <https://support.hp.com/wise/home/ams-pt>

APJ

- <https://support.hp.com/wise/home/apj-en>
- <https://support.hp.com/wise/home/apj-ja>
- <https://support.hp.com/wise/home/apj-ko>
- <https://support.hp.com/wise/home/apj-zh-Hans>
- <https://support.hp.com/wise/home/apj-zh-Hant>

EMEA


- <https://support.hp.com/wise/home/emea-en>


Channel partners, go to HP Channel Services Network (CSN) at www.hp.com/partners/csn.

Channel partners, access training materials in the HP University and Partner Learning Center at <https://content.ext.hp.com/sites/LMS/HPU.page>.

How to use the parts lists and diagrams

The figures in this chapter show the major subassemblies in the printer and their component parts. A parts list table follows each exploded view assembly diagram. Each table lists the item number, the associated part number, and the description of each part. If a part is not listed in the table, then it is not a field replacement unit (FRU).

 **CAUTION:** Be sure to order the correct part. When looking for part numbers for electrical components, pay careful attention to the voltage that is listed in the description column. Doing so will ensure that the part number selected is for the correct model.

 **NOTE:** In this manual, the abbreviation “PCA” stands for “printed circuit-board assembly.” Components described as a PCA might consist of a single circuit board or a circuit board plus other parts, such as cables and sensors.

Covers

Covers (M14-M17)

Figure 2-6 Covers (M14-M17)

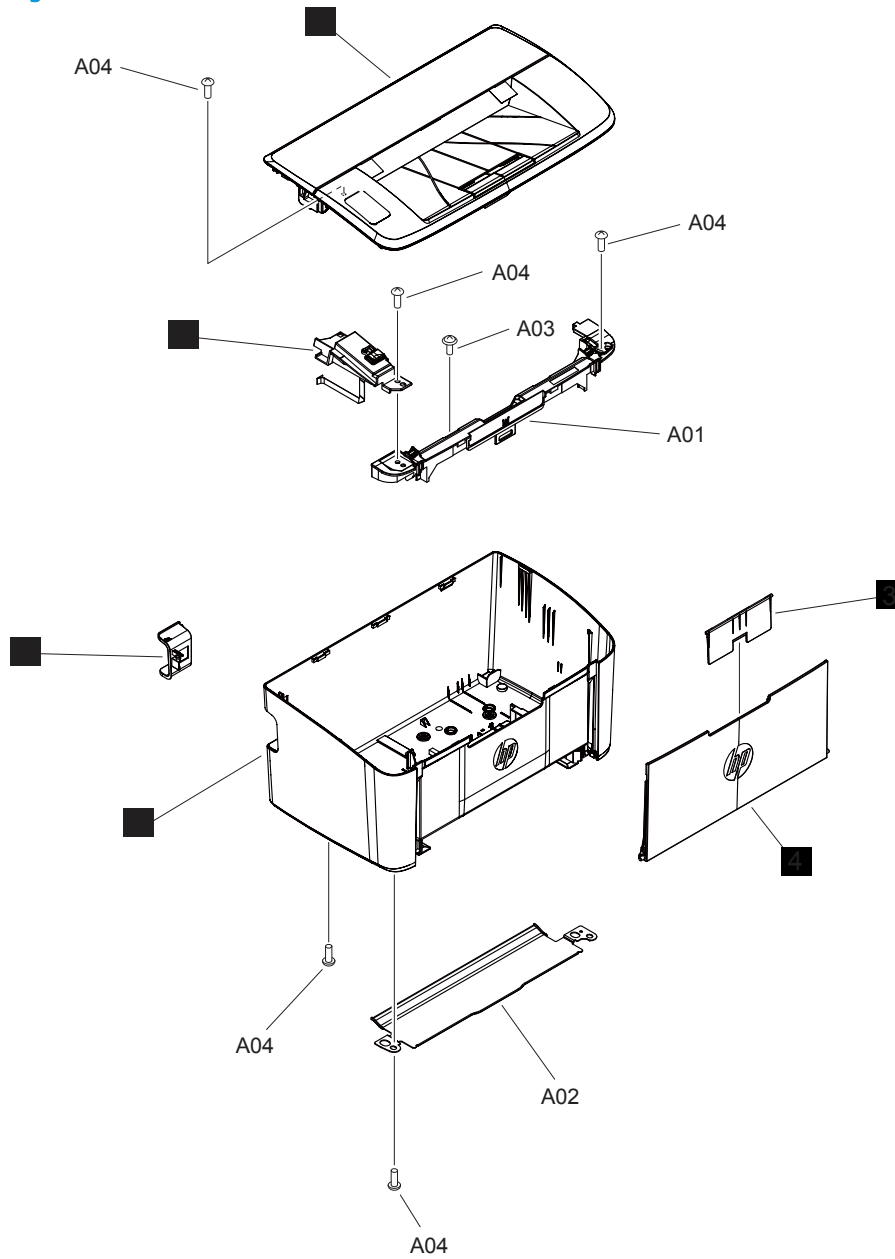


Table 2-7 Covers (M14-M17)

Ref	Description	Part number	Qty
1	Cartridge door assembly (base model; M14-M17)	RM2-2118-000CN	1
1	Cartridge door assembly (wireless model; M14-M17)	RM2-2119-000CN	1
2	Control panel (base model; M14-M17)	RM2-2125-000CN	1
2	Control panel (wireless model; M14-M17)	RM2-2126-000CN	1
3	Tray, extension (M14-M17)	RC5-4247-000CN	1
4	Tray, paper pickup (base model; M14-M17)	RL2-2589-000CN	1
4	Tray, paper pickup (wireless model; M14-M17)	RL2-2590-000CN	1
4	Tray, paper pickup (base EM model; M14-M17)	RL2-2591-000CN	1
4	Tray, paper pickup (wireless EM model; M14-M17)	RL2-2592-000CN	1
4	Bottom cover assembly (base model; M14-M17)	RM2-2105-000CN	1
4	Bottom cover assembly (wireless model; M14-M17)	RM2-2104-000CN	1
5	Cover, formatter (M14-M17)	RC5-4239-000CN	1

Covers (MFP M28-M31)

Figure 2-7 Covers (MFP M28-M31)

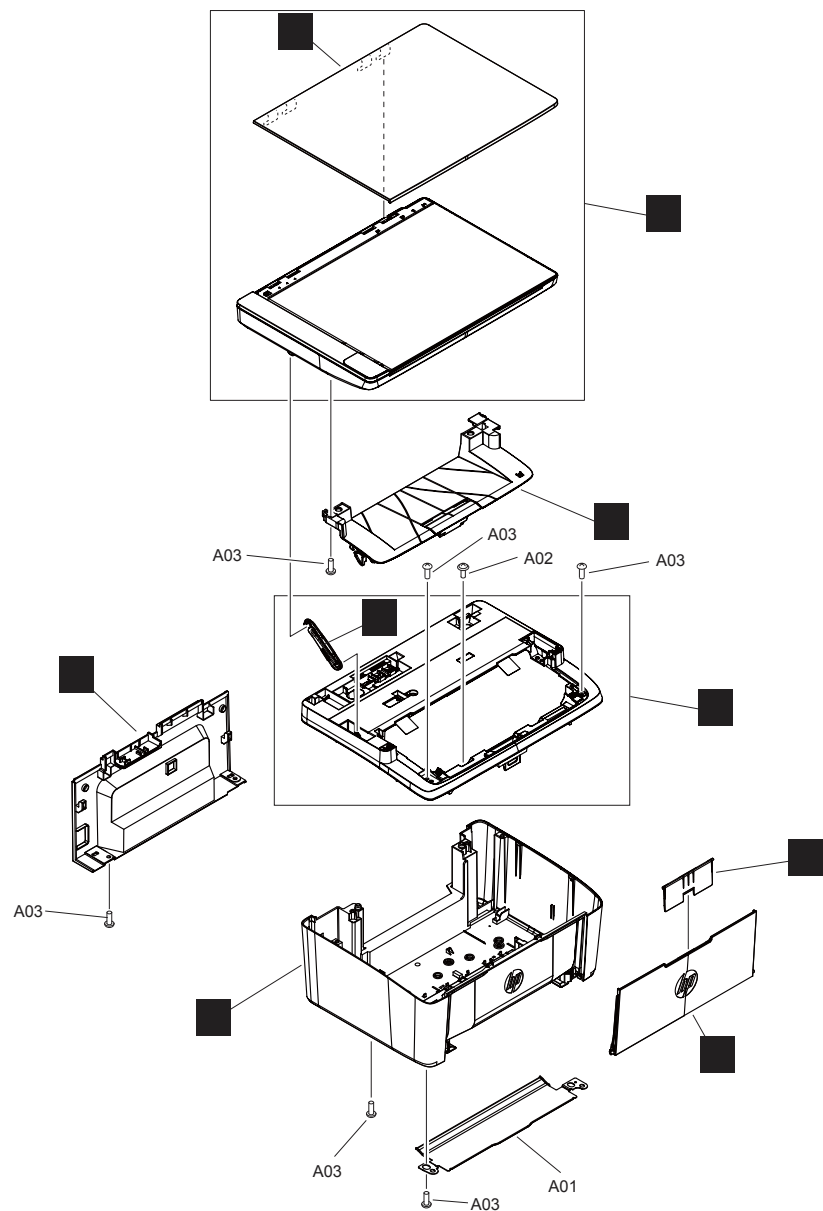


Table 2-8 Covers (MFP M28-M31)

Ref	Description	Part number	Qty
1	Document lid assembly (MFP M28-M31)	RM2-2136-000CN	1
2	Image scanner assembly (base model; MFP M28-M31)	RM2-2133-000CN	1
2	Image scanner assembly (wireless model; MFP M28-M31)	RM2-2134-000CN	1
2	Image scanner assembly (EM model; MFP M28-M31)	RM2-2135-000CN	1
3	Cartridge door assembly (MFP M28-M31)	RM2-2515-000CN	1
4	Cover, top assembly (MFP M28-M31)	RM2-2122-000CN	1
5	Link, hinge (MFP M28-M31)	RC52-4941-000CN	1
6	Tray, extension (MFP M28-M31)	RC5-4247-000CN	
7	Tray, paper pickup (base model; MFP M28-M31)	RL2-2594-000CN	1
7	Tray, paper pickup (wireless model; MFP M28-M31)	RL2-2595-000CN	1
7	Tray, paper pickup (base EM model; MFP M28-M31)	RL2-2596-000CN	1
7	Tray, paper pickup (wireless EM model; MFP M28-M31)	RL2-2597-000CN	1
8	Bottom cover assembly (MFP M28-M31)	RM2-2103-000CN	1
9	Cover, formatter (MFP M28-M31)	RC5-4186-000CN	1

Internal components (1 of 2)

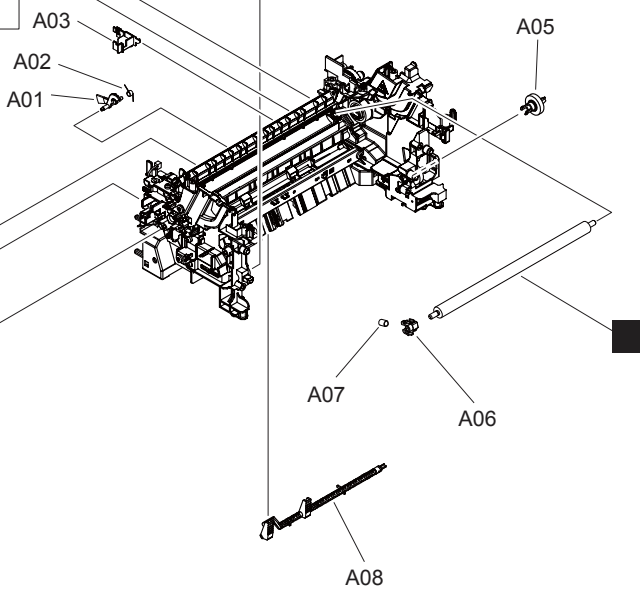
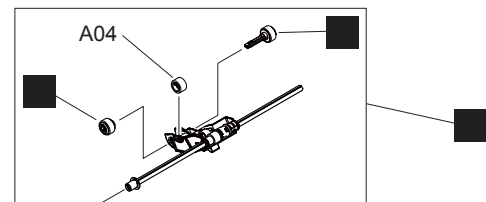
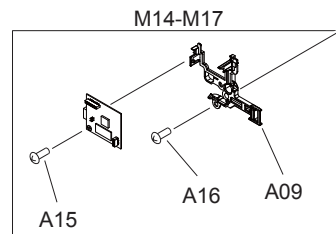
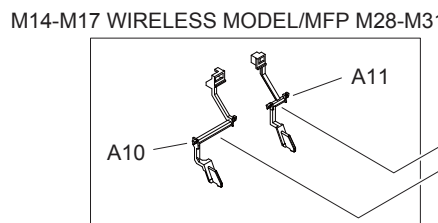
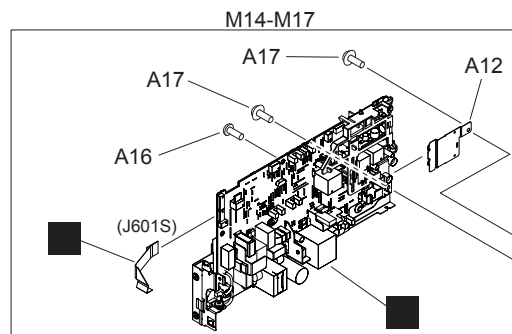


Table 2-9 Internal components (1 of 2)¹

Ref	Description	Part number	Qty
1	Cable, flat flexible (M14-M17)	RM3-7434-000CN	1
1	Cable, flat flexible (MFP M28-M31)	RM3-7435-000CN	1
2	Engine controller PCA (base model; M14-M17) 220-240V	RM3-7388-000CN	1
2	Engine controller PCA (base EM model; M14-M17) 220-240V	RM3-7389-000CN	1
2	Engine controller PCA (wireless model; M14-M17) 110-127V	RM3-7390-000CN	1
2	Engine controller PCA (wireless model; M14-M17) 220-240V	RM3-7391-000CN	1
2	Engine controller PCA (wireless EM model; M14-M17) 220-240V	RM3-7392-000CN	1
2	Engine controller PCA (MFP M28-M31) 110-127V	RM3-7396-000CN	1
2	Engine controller PCA (MFP M28-M31) 220-240V	RM3-7397-000CN	1
2	Engine controller PCA (EM model; MFP M28-M31) 220-240V	RM3-7398-000CN	1
3	Roller, paper pickup left	RM2-2516-000CN	1
4	Roller, paper pickup right	RM2-2517-000CN	1
5	Roller arm, pickup	RM2-2106-000CN	
6	Roller, transfer	RM1-4023-000CN	1
Not shown	Formatter PCA (base model; M14-M17)	W2G50-60001	1
Not shown	Formatter PCA (wireless model; M14-M17)	W2G51-60001	1
Not shown	Formatter PCA (base model; MFP M28-M31)	W2G54-60001	1
Not shown	Formatter PCA (wireless model; MFP M28-M31)	W2G54-60001	1
Not shown	Wireless PCA	1150-7969	1

¹ Some assemblies are common between the M14-M17 and the MFP M28-M31 printers. Make sure that the correct part number is used to order assemblies.

Internal components (2 of 2)

Figure 2-9 Internal components (2 of 2)

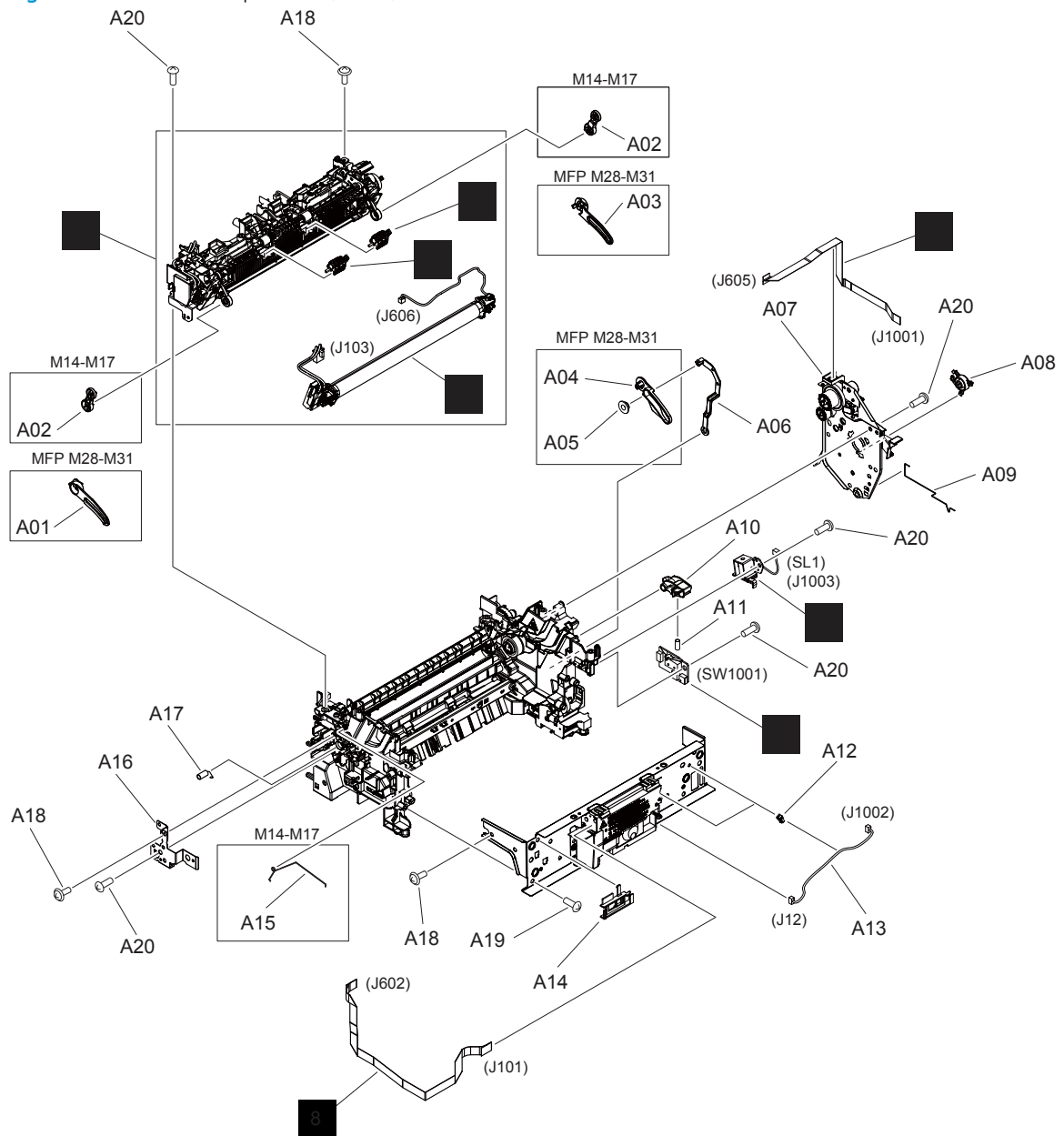


Table 2-10 Internal components (2 of 2)

Ref	Description	Part number	Qty
1	Fixing (fuser) assembly (110-127V)	RM2-2131-000CN	1
1	Fixing (fuser) assembly (220-240V)	RM2-2107-000CN	1
2	Roller, right holder assembly	RM2-2616-000CN	1
3	Roller, left holder assembly	RM2-2617-000CN	1
4	Fixing (fuser) film assembly (110-127V)	RM2-2132-000CN	1
4	Fixing (fuser) film assembly (220-240V)	RM2-2130-000CN	1
5	Cable, flat flexible	RM3-7431-000CN	1
6	Solenoid	RK2-9869-000CN	1
7	Door switch PCA	RM3-7169-000CN	1
8	Cable, flat flexible	RM3-7430-000CN	1

Alphabetical parts list

Table 2-11 Alphabetical parts list

Description	Part number	Table and page
Bottom cover assembly (base model; M14-M17)	RM2-2105-000CN	Covers (M14-M17) on page 339
Bottom cover assembly (MFP M28-M31)	RM2-2103-000CN	Covers (MFP M28-M31) on page 341
Bottom cover assembly (wireless model; M14-M17)	RM2-2104-000CN	Covers (M14-M17) on page 339
Cable, flat flexible	RM3-7431-000CN	Internal components (2 of 2) on page 345
Cable, flat flexible	RM3-7430-000CN	Internal components (2 of 2) on page 345
Cable, flat flexible (M14-M17)	RM3-7434-000CN	Internal components (1 of 2)¹ on page 343
Cable, flat flexible (MFP M28-M31)	RM3-7435-000CN	Internal components (1 of 2)¹ on page 343
Cartridge door assembly (base model; M14-M17)	RM2-2118-000CN	Covers (M14-M17) on page 339
Cartridge door assembly (MFP M28-M31)	RM2-2515-000CN	Covers (MFP M28-M31) on page 341
Cartridge door assembly (wireless model; M14-M17)	RM2-2119-000CN	Covers (M14-M17) on page 339
Control panel (base model; M14-M17)	RM2-2125-000CN	Covers (M14-M17) on page 339
Control panel (wireless model; M14-M17)	RM2-2126-000CN	Covers (M14-M17) on page 339
Cover, formatter (M14-M17)	RC5-4239-000CN	Covers (M14-M17) on page 339
Cover, formatter (MFP M28-M31)	RC5-4186-000CN	Covers (MFP M28-M31) on page 341
Cover, top assembly (MFP M28-M31)	RM2-2122-000CN	Covers (MFP M28-M31) on page 341
Document lid assembly (MFP M28-M31)	RM2-2136-000CN	Covers (MFP M28-M31) on page 341
Door switch PCA	RM3-7169-000CN	Internal components (2 of 2) on page 345
Engine controller PCA (base EM model; M14-M17) 220-240V	RM3-7389-000CN	Internal components (1 of 2)¹ on page 343
Engine controller PCA (base model; M14-M17) 220-240V	RM3-7388-000CN	Internal components (1 of 2)¹ on page 343
Engine controller PCA (EM model; MFP M28-M31) 220-240V	RM3-7398-000CN	Internal components (1 of 2)¹ on page 343
Engine controller PCA (MFP M28-M31) 110-127V	RM3-7396-000CN	Internal components (1 of 2)¹ on page 343
Engine controller PCA (MFP M28-M31) 220-240V	RM3-7397-000CN	Internal components (1 of 2)¹ on page 343
Engine controller PCA (wireless EM model; M14-M17) 220-240V	RM3-7392-000CN	Internal components (1 of 2)¹ on page 343

Table 2-11 Alphabetical parts list (continued)

Description	Part number	Table and page
Engine controller PCA (wireless model; M14-M17) 110-127V	RM3-7390-000CN	Internal components (1 of 2)¹ on page 343
Engine controller PCA (wireless model; M14-M17) 220-240V	RM3-7391-000CN	Internal components (1 of 2)¹ on page 343
Fixing (fuser) assembly (110-127V)	RM2-2131-000CN	Internal components (2 of 2) on page 345
Fixing (fuser) assembly (220-240V)	RM2-2107-000CN	Internal components (2 of 2) on page 345
Fixing (fuser) film assembly (110-127V)	RM2-2132-000CN	Internal components (2 of 2) on page 345
Fixing (fuser) film assembly (220-240V)	RM2-2130-000CN	Internal components (2 of 2) on page 345
Formatter PCA (base model; M14-M17)	W2G50-60001	Internal components (1 of 2)¹ on page 343
Formatter PCA (base model; MFP M28-M31)	W2G54-60001	Internal components (1 of 2)¹ on page 343
Formatter PCA (wireless model; M14-M17)	W2G51-60001	Internal components (1 of 2)¹ on page 343
Formatter PCA (wireless model; MFP M28-M31)	W2G54-60001	Internal components (1 of 2)¹ on page 343
Image scanner assembly (base model; MFP M28-M31)	RM2-2133-000CN	Covers (MFP M28-M31) on page 341
Image scanner assembly (EM model; MFP M28-M31)	RM2-2135-000CN	Covers (MFP M28-M31) on page 341
Image scanner assembly (wireless model; MFP M28-M31)	RM2-2134-000CN	Covers (MFP M28-M31) on page 341
Link, hinge (MFP M28-M31)	RC52-4941-000CN	Covers (MFP M28-M31) on page 341
Roller arm, pickup	RM2-2106-000CN	Internal components (1 of 2)¹ on page 343
Roller, left holder assembly	RM2-2617-000CN	Internal components (2 of 2) on page 345
Roller, paper pickup left	RM2-2516-000CN	Internal components (1 of 2)¹ on page 343
Roller, paper pickup right	RM2-2517-000CN	Internal components (1 of 2)¹ on page 343
Roller, right holder assembly	RM2-2616-000CN	Internal components (2 of 2) on page 345
Roller, transfer	RM1-4023-000CN	Internal components (1 of 2)¹ on page 343
Solenoid	RK2-9869-000CN	Internal components (2 of 2) on page 345
Tray, extension (M14-M17)	RC5-4247-000CN	Covers (M14-M17) on page 339

Table 2-11 Alphabetical parts list (continued)

Description	Part number	Table and page
Tray, extension (MFP M28-M31)	RC5-4247-000CN	Covers (MFP M28-M31) on page 341
Tray, paper pickup (base EM model; M14-M17)	RL2-2591-000CN	Covers (M14-M17) on page 339
Tray, paper pickup (base EM model; MFP M28-M31)	RL2-2596-000CN	Covers (MFP M28-M31) on page 341
Tray, paper pickup (base model; M14-M17)	RL2-2589-000CN	Covers (M14-M17) on page 339
Tray, paper pickup (base model; MFP M28-M31)	RL2-2594-000CN	Covers (MFP M28-M31) on page 341
Tray, paper pickup (wireless EM model; M14-M17)	RL2-2592-000CN	Covers (M14-M17) on page 339
Tray, paper pickup (wireless EM model; MFP M28-M31)	RL2-2597-000CN	Covers (MFP M28-M31) on page 341
Tray, paper pickup (wireless model; M14-M17)	RL2-2590-000CN	Covers (M14-M17) on page 339
Tray, paper pickup (wireless model; MFP M28-M31)	RL2-2595-000CN	Covers (MFP M28-M31) on page 341
Wireless PCA	1150-7969	Internal components (1 of 2)¹ on page 343

Numerical parts list

Table 2-12 Numerical parts list

Part number	Description	Table and page
1150-7969	Wireless PCA	Internal components (1 of 2)¹ on page 343
RC5-4186-000CN	Cover, formatter (MFP M28-M31)	Covers (MFP M28-M31) on page 341
RC5-4239-000CN	Cover, formatter (M14-M17)	Covers (M14-M17) on page 339
RC5-4247-000CN	Tray, extension (M14-M17)	Covers (M14-M17) on page 339
RC5-4247-000CN	Tray, extension (MFP M28-M31)	Covers (MFP M28-M31) on page 341
RC52-4941-000CN	Link, hinge (MFP M28-M31)	Covers (MFP M28-M31) on page 341
RK2-9869-000CN	Solenoid	Internal components (2 of 2) on page 345
RL2-2589-000CN	Tray, paper pickup (base model; M14-M17)	Covers (M14-M17) on page 339
RL2-2590-000CN	Tray, paper pickup (wireless model; M14-M17)	Covers (M14-M17) on page 339
RL2-2591-000CN	Tray, paper pickup (base EM model; M14-M17)	Covers (M14-M17) on page 339
RL2-2592-000CN	Tray, paper pickup (wireless EM model; M14-M17)	Covers (M14-M17) on page 339
RL2-2594-000CN	Tray, paper pickup (base model; MFP M28-M31)	Covers (MFP M28-M31) on page 341
RL2-2595-000CN	Tray, paper pickup (wireless model; MFP M28-M31)	Covers (MFP M28-M31) on page 341
RL2-2596-000CN	Tray, paper pickup (base EM model; MFP M28-M31)	Covers (MFP M28-M31) on page 341
RL2-2597-000CN	Tray, paper pickup (wireless EM model; MFP M28-M31)	Covers (MFP M28-M31) on page 341
RM1-4023-000CN	Roller, transfer	Internal components (1 of 2)¹ on page 343
RM2-2103-000CN	Bottom cover assembly (MFP M28-M31)	Covers (MFP M28-M31) on page 341
RM2-2104-000CN	Bottom cover assembly (wireless model; M14-M17)	Covers (M14-M17) on page 339
RM2-2105-000CN	Bottom cover assembly (base model; M14-M17)	Covers (M14-M17) on page 339
RM2-2106-000CN	Roller arm, pickup	Internal components (1 of 2)¹ on page 343
RM2-2107-000CN	Fixing (fuser) assembly (220-240V)	Internal components (2 of 2) on page 345
RM2-2118-000CN	Cartridge door assembly (base model; M14-M17)	Covers (M14-M17) on page 339
RM2-2119-000CN	Cartridge door assembly (wireless model; M14-M17)	Covers (M14-M17) on page 339
RM2-2122-000CN	Cover, top assembly (MFP M28-M31)	Covers (MFP M28-M31) on page 341

Table 2-12 Numerical parts list (continued)

Part number	Description	Table and page
RM2-2125-000CN	Control panel (base model; M14-M17)	Covers (M14-M17) on page 339
RM2-2126-000CN	Control panel (wireless model; M14-M17)	Covers (M14-M17) on page 339
RM2-2130-000CN	Fixing (fuser) film assembly (220-240V)	Internal components (2 of 2) on page 345
RM2-2131-000CN	Fixing (fuser) assembly (110-127V)	Internal components (2 of 2) on page 345
RM2-2132-000CN	Fixing (fuser) film assembly (110-127V)	Internal components (2 of 2) on page 345
RM2-2133-000CN	Image scanner assembly (base model; MFP M28-M31)	Covers (MFP M28-M31) on page 341
RM2-2134-000CN	Image scanner assembly (wireless model; MFP M28-M31)	Covers (MFP M28-M31) on page 341
RM2-2135-000CN	Image scanner assembly (EM model; MFP M28-M31)	Covers (MFP M28-M31) on page 341
RM2-2136-000CN	Document lid assembly (MFP M28-M31)	Covers (MFP M28-M31) on page 341
RM2-2515-000CN	Cartridge door assembly (MFP M28-M31)	Covers (MFP M28-M31) on page 341
RM2-2516-000CN	Roller, paper pickup left	Internal components (1 of 2)¹ on page 343
RM2-2517-000CN	Roller, paper pickup right	Internal components (1 of 2)¹ on page 343
RM2-2616-000CN	Roller, right holder assembly	Internal components (2 of 2) on page 345
RM2-2617-000CN	Roller, left holder assembly	Internal components (2 of 2) on page 345
RM3-7169-000CN	Door switch PCA	Internal components (2 of 2) on page 345
RM3-7388-000CN	Engine controller PCA (base model; M14-M17) 220-240V	Internal components (1 of 2)¹ on page 343
RM3-7389-000CN	Engine controller PCA (base EM model; M14-M17) 220-240V	Internal components (1 of 2)¹ on page 343
RM3-7390-000CN	Engine controller PCA (wireless model; M14-M17) 110-127V	Internal components (1 of 2)¹ on page 343
RM3-7391-000CN	Engine controller PCA (wireless model; M14-M17) 220-240V	Internal components (1 of 2)¹ on page 343
RM3-7392-000CN	Engine controller PCA (wireless EM model; M14-M17) 220-240V	Internal components (1 of 2)¹ on page 343
RM3-7396-000CN	Engine controller PCA (MFP M28-M31) 110-127V	Internal components (1 of 2)¹ on page 343
RM3-7397-000CN	Engine controller PCA (MFP M28-M31) 220-240V	Internal components (1 of 2)¹ on page 343

Table 2-12 Numerical parts list (continued)

Part number	Description	Table and page
RM3-7398-000CN	Engine controller PCA (EM model; MFP M28-M31) 220-240V	Internal components (1 of 2)¹ on page 343
RM3-7430-000CN	Cable, flat flexible	Internal components (2 of 2) on page 345
RM3-7431-000CN	Cable, flat flexible	Internal components (2 of 2) on page 345
RM3-7434-000CN	Cable, flat flexible (M14-M17)	Internal components (1 of 2)¹ on page 343
RM3-7435-000CN	Cable, flat flexible (MFP M28-M31)	Internal components (1 of 2)¹ on page 343
W2G50-60001	Formatter PCA (base model; M14-M17)	Internal components (1 of 2)¹ on page 343
W2G51-60001	Formatter PCA (wireless model; M14-M17)	Internal components (1 of 2)¹ on page 343
W2G54-60001	Formatter PCA (base model; MFP M28-M31)	Internal components (1 of 2)¹ on page 343
W2G54-60001	Formatter PCA (wireless model; MFP M28-M31)	Internal components (1 of 2)¹ on page 343

Index

A

- accessories
 - part numbers 10
- after-service checklist 7

C

- cartridge (M14-M17)
 - toner, remove and replace 12
- cartridge (M28-M31)
 - toner, remove and replace 16
- cartridge door (M14-M17)
 - removing and replacing 25
- cartridge door (M14-M17), removing and replacing 25
- cartridge door (MFP M28-M31)
 - removing and replacing 46
- cartridge door (MFP M28-M31), removing and replacing 46
- cartridge door assembly
 - locating 331
- cartridge door assembly (M14-M17)
 - locating 331
- cartridges
 - ordering 334
 - part numbers 334
- cautions iii
- Channel partners support
 - HP Channel Services Network (CSN) v, 2, 330
- checklists
 - preservice 6
- control panel (M14-M17)
 - locating 331
 - removing and replacing 90
- control panel (M14-M17), removing and replacing 90
- conventions, document iii
- copy quality
 - test 7

- covers
 - parts lists and diagrams 338

D

- document conventions iii
- document lid (M28-M31)
 - removing and replacing 32
- document lid (M28-M31), removing and replacing 32
- door switch and flat flexible cable
 - removing and replacing 276
- door switch and flat flexible cable, removing and replacing 276
- door switch assembly
 - locating 333

E

- electrostatic discharge (ESD) 4
- engine controller assembly
 - locating 333
- engine controller assembly (M14-M17)
 - removing and replacing 249
- engine controller assembly (M14-M17), removing and replacing 249
- engine controller assembly (MFP M28-M31)
 - removing and replacing 262
- engine controller assembly (MFP M28-M31), removing and replacing 262
- ESD electrostatic discharge (ESD) 4
- external panels, doors, and covers
 - locating 331

F

- FFC (door switch)
 - removing and replacing 276
- FFC (laser scanner), removing and replacing 142

- field-replaceable units (FRUs)
 - replacing 3
- film, fuser (M14-M17)
 - removing and replacing 207
- film, fuser (MFP M28-M31)
 - removing and replacing 229
- formatter (M14-M17)
 - removing and replacing 161
- formatter (M14-M17), removing and replacing 161
- formatter (MFP M28-M31)
 - removing and replacing 172
- formatter (MFP M28-M31), removing and replacing 172
- formatter cover (M14-M17)
 - removing and replacing 35
- formatter cover (M14-M17), removing and replacing 35
- formatter cover (M28-M31)
 - locating 331
- formatter cover (MFP M28-M31)
 - removing and replacing 43
- formatter cover (MFP M28-M31), removing and replacing 43
- formatter PCA
 - locating 333
- FRUs (field-replaceable units)
 - replacing 3
- fuser
 - locating 332
- fuser (M14-M17)
 - removing and replacing 175
- fuser (M14-M17), removing and replacing 175
- fuser (MFP M28-M31)
 - removing and replacing 192
- fuser (MFP M28-M31), removing and replacing 192

- fuser film assembly (M14-M17), removing and replacing 207
- fuser film assembly (MFP M28-M31), removing and replacing 229

H

- hinge link (M28-M31)
 - removing and replacing 139
- hinge link (M28-M31), removing and replacing 139
- HP Channel Services Network (CSN)
 - Channel partners support v, 2, 330

I

- image scanner (MFP M28-M31)
 - removing and replacing 54
- image scanner (MFP M28-M31), removing and replacing 54
- image scanner (MFP M28-M31)
 - locating 332
- installation
 - replacing parts 5
 - screws 5
- internal components
 - parts lists and diagrams 342

L

- laser scanner
 - removing and replacing 142
 - warnings for servicing 3
- laser scanner assembly
 - locating 332
- laser scanner, removing and replacing 142
- locating
 - external panels, doors, and covers 331
 - main assemblies 332
 - main parts 332
 - PCA 333
- lower cover (M14-M17)
 - removing and replacing 61
- lower cover (M14-M17), removing and replacing 61
- lower cover (MFP M28-M31)
 - removing and replacing 71
- lower cover (MFP M28-M31), removing and replacing 71
- lower cover assembly (M14-M17)
 - locating 331

- lower cover assembly (M28-M31)
 - locating 331

M

- main assemblies
 - locating 332
- main parts
 - locating 332
- maintenance kits
 - part numbers 334

N

- notes iii

O

- order
 - parts, accessories, and supplies 334
- ordering
 - toner cartridges and accessories 334
- ordering parts
 - authorized service providers 8

P

- part numbers 10
 - accessories 10
 - replacement parts 334
 - staple cartridges 334
 - supplies 10, 334
 - toner cartridge 334
 - toner cartridges 334
- parts
 - ordering 8
- parts lists and diagrams 329
 - covers 338
 - internal components 342
 - using 336
- PCA
 - locating 333
- pickup roller
 - locating 332
- pickup roller arm (M14-M17), removing and replacing 106
- pickup roller arm (M28-M31), removing and replacing 122
- pickup rollers, removing and replacing 101
- Pickup solenoid
 - removing and replacing 295

- Pickup solenoid, removing and replacing 295

- post-service tests 7
- preservice checklist 6
- print quality
 - test 7

R

- removal strategy
 - removing and replacing 3
- removing and replacing
 - cartridge door (M14-M17) 25
 - cartridge door (MFP M28-M31) 46
 - control panel (M14-M17) 90
 - document lid (M28-M31) 32
 - door switch and flat flexible cable 276
 - engine controller assembly (M14-M17) 249
 - engine controller assembly (MFP M28-M31) 262
 - formatter (M14-M17) 161
 - formatter (MFP M28-M31) 172
 - formatter cover (M14-M17) 35
 - formatter cover (MFP M28-M31) 43
 - fuser (M14-M17) 175
 - fuser (MFP M28-M31) 192
 - fuser film assembly (M14-M17) 207
 - fuser film assembly (MFP M28-M31) 229
 - hinge link (M28-M31) 139
 - image scanner (MFP M28-M31) 54
 - laser scanner 142
 - lower cover (M14-M17) 61
 - lower cover (MFP M28-M31) 71
 - pickup roller arm (M14-M17) 106
 - pickup roller arm (M28-M31) 122
 - pickup rollers 101
 - pickup solenoid 295
 - top cover (MFP M28-M31) 81
 - transfer roller 136
 - Tray 1 22
 - wireless PCA (M14-M17) 314
 - wireless PCA (MFP M28-M31) 325

- removing parts
 - after-service checklist 7
 - checklists 6
 - tools, required 5
- replacement parts
 - part numbers 334
- replacing
 - parts 3
- replacing parts
 - about 3
 - after-service checklist 7
 - screws 5
 - tools, required 5
- roller arm, pickup (M14-M17)
 - removing and replacing 106
- roller arm, pickup (M28-M31)
 - removing and replacing 122
- roller, transfer
 - removing and replacing 136
- rollers, pickup
 - removing and replacing 101

S

- screwdrivers, required 5
- screws
 - installing 5
 - replacing 4
 - types of 5
- service and support information 10, 335
 - WISE and CSN v, 2, 330
- service approach
 - removing and replacing 6
- service providers
 - order parts 8
- staple cartridges
 - part numbers 334
- static, precautions for 4
- supplies
 - part numbers 10, 334

T

- tests
 - post-service 7
 - print quality, copy quality, other (repair specific) 7
 - print-quality 7
- tips iii
- toner cartridge
 - part numbers 334

- toner cartridge (M14-M17), removing and replacing 12
- toner cartridge (M28-M31), removing and replacing 16
- toner cartridges
 - ordering 334
 - part numbers 10, 334
- tools, required 5
- top cover (MFP M28-M31)
 - removing and replacing 81
- top cover (MFP M28-M31), removing and replacing 81
- top cover assembly (M28-M31)
 - locating 331
- transfer roller
 - locating 332
- transfer roller, removing and replacing 136
- Tray 1
 - removing and replacing 22
- Tray 1 (M14-M17)
 - locating 331
- Tray 1 (M28-M31)
 - locating 331
- Tray 1, removing and replacing 22

W

- warnings iii
- Web-based Interactive Search Engine
 - WISE v, 2, 330
- wireless PCA (M14-M17)
 - removing and replacing 314
- wireless PCA (M14-M17), removing and replacing 314
- wireless PCA (MFP M28-M31)
 - removing and replacing 325
- wireless PCA (MFP M28-M31), removing and replacing 325
- WISE
 - Web-based Interactive Search Engine v, 2, 330

