

Table 8-7 Internal components (2 of 4)

Ref	Description	Part number	Qty
1	Guide, cartridge, right lower	RC2-0346-000	1
2	Duct	RC2-0351-000	1
3	Guide, cable	RC2-0397-000	1
4	Cam	RC2-0410-000	1
5	Guide, cassette, right rear	RC2-0416-000	1
6	Guide, cartridge, right upper	RC2-0426-000	1
7	Guide, shutter, front	RC2-0428-000	1
8	Guide, cassette, right center 1	RC1-3456-000	1
9	Guide, cassette, right center 2	RC1-3457-000	1
10	Guide, shutter, rear	RC1-3535-000	1
11	Holder, switch	RC1-3727-000	1
12	Screw, RS, M3x8	XA9-1504-000	8
13	Screw, RS, M3x6 (HP LJ P2015d, P2015dn, and P2015x)	XA9-1495-000	10
13	Screw, RS, M3x6 (HP LJ P2015)	XA9-1495-000	7
14	Screw, RS, M3x6	XA9-1561-000	1
15	Screw, toothed washer, M4x6	XB2-7400-606	1
16	Motor, DC	RK2-1567-000	1
17	Guide, cassette, right front	RL1-0517-000	1
18	Inlet/switch cable assembly	RM1-4169-000	1
19	Scanner assembly	RM1-4262-000	1
20	Plate, solenoid holder	RC1-3459-000	1
21	Cam, right	RC1-3546-000	1
22	Stopper	RC1-3580-000	1
23	Duplex driver PCB assembly (HP LJ P2015d, P2015dn, and P2015x)	RM1-1262-000	1
24	Spring, compression	RU5-2335-000	1
25	Shield, duplexing solenoid (HP LJ P2015d, P2015dn, and P2015x)	RC2-0347-000	1
26	Plate, grounding	RC2-1568-000	1
27	Arm, cam	RC2-0405-000	1
28	Arm, link	RC2-0406-000	1
29	Holder, fan	RC2-0349-000	1
30	Arm, tag	RC2-0392-000	1
31	Duct	RC2-0354-000	1
32	Holder, drawer connector	RC2-0396-000	1

Ref	Description	Part number	Qty
33	Connector, drawer	VS1-7258-007	1
34	Fan	RK2-1589-000	1
35	Screw, tap, M3x6	XA9-1503-000	3
36	Screw, tap, M3x8	XA9-1648-000	4
37	Screw, tap, binding head, M3x8	XB4-7300-809	1
38	Rod, grounding	RC2-0350-000	1
39	Cable, memory tag	RM1-4163-000	1
40	Solenoid (HP LJ P2015d, P2015dn, and P2015x)	RK2-0420-000	1
41	Solenoid (HP LJ P2015)	RK2-0424-000	1

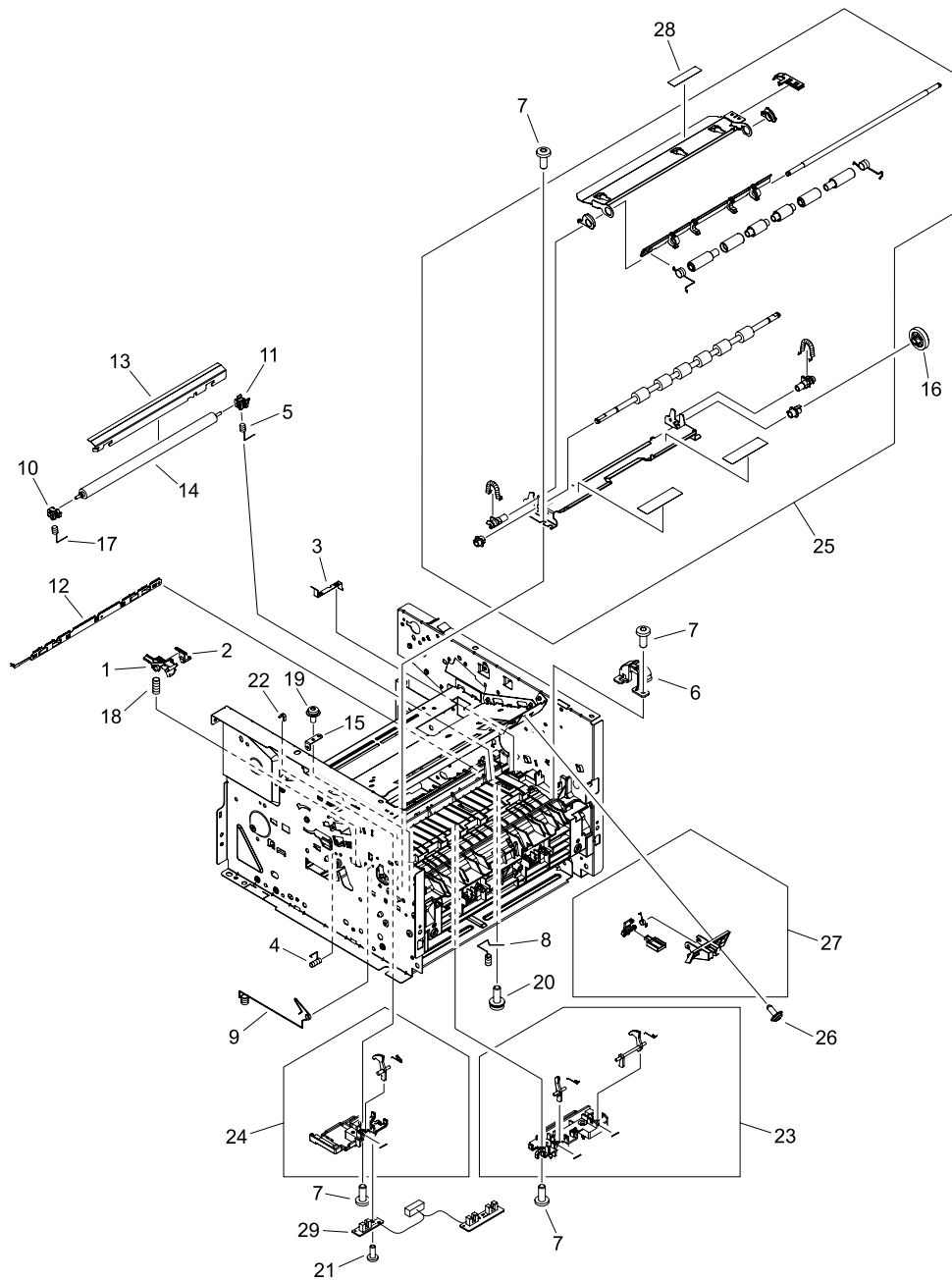


Figure 8-7 Internal components (3 of 4)

Table 8-8 Internal components (3 of 4)

Ref	Description	Part number	Qty
1	Cover, drum	RC1-3563-000	1
2	Plate, drum grounding	RC1-3565-000	1
3	Plate, transfer grounding	RC1-3698-000	1
4	Spring, grounding	RC1-3700-000	1
5	Spring, transfer, right	RC1-3702-000	1
6	Cover, registration gear	RC1-3708-000	1
7	Screw, tapping, truss head, M4x10	XB4-7401-005	7
8	Spring, compression	RC1-3736-000	1
9	Spring, contact	RC2-0344-000	1
10	Bushing	RC2-0356-000	1
11	Bushing	RC2-0357-000	1
12	Eliminator, static charge	RC2-0358-000	1
13	Guide, transfer front	RC2-0359-000	1
14	Roller, transfer	RM1-4279-000	1
15	Plate, registration grounding	RC2-0384-000	1
16	Gear, 33T	RU5-0320-000	1
17	Spring, compression	RU5-2144-000	1
18	Spring, compression	RU5-2338-000	1
19	Screw, with washer, M3x8	XA9-1420-000	1
20	Screw, with washer, M4x12	XA9-1422-000	1
21	Screw, tap, binding head, M3x8	XB4-7300-809	2
22	Sheet, registration damper	RC1-3695-000	1
23	Top sensor assembly	RM1-1283-000	1
24	Paper-width sensor assembly	RM1-4245-000	1
25	Registration assembly	RM1-4244-000	1
26	Screw, RS, M3x8	XA9-1504-000	1
27	Shutter link assembly	RM1-1321-000	1
28	Label, transfer guide open	RC1-3796-000	1
29	Paper-sensor PCB assembly	RM1-4159-000	1

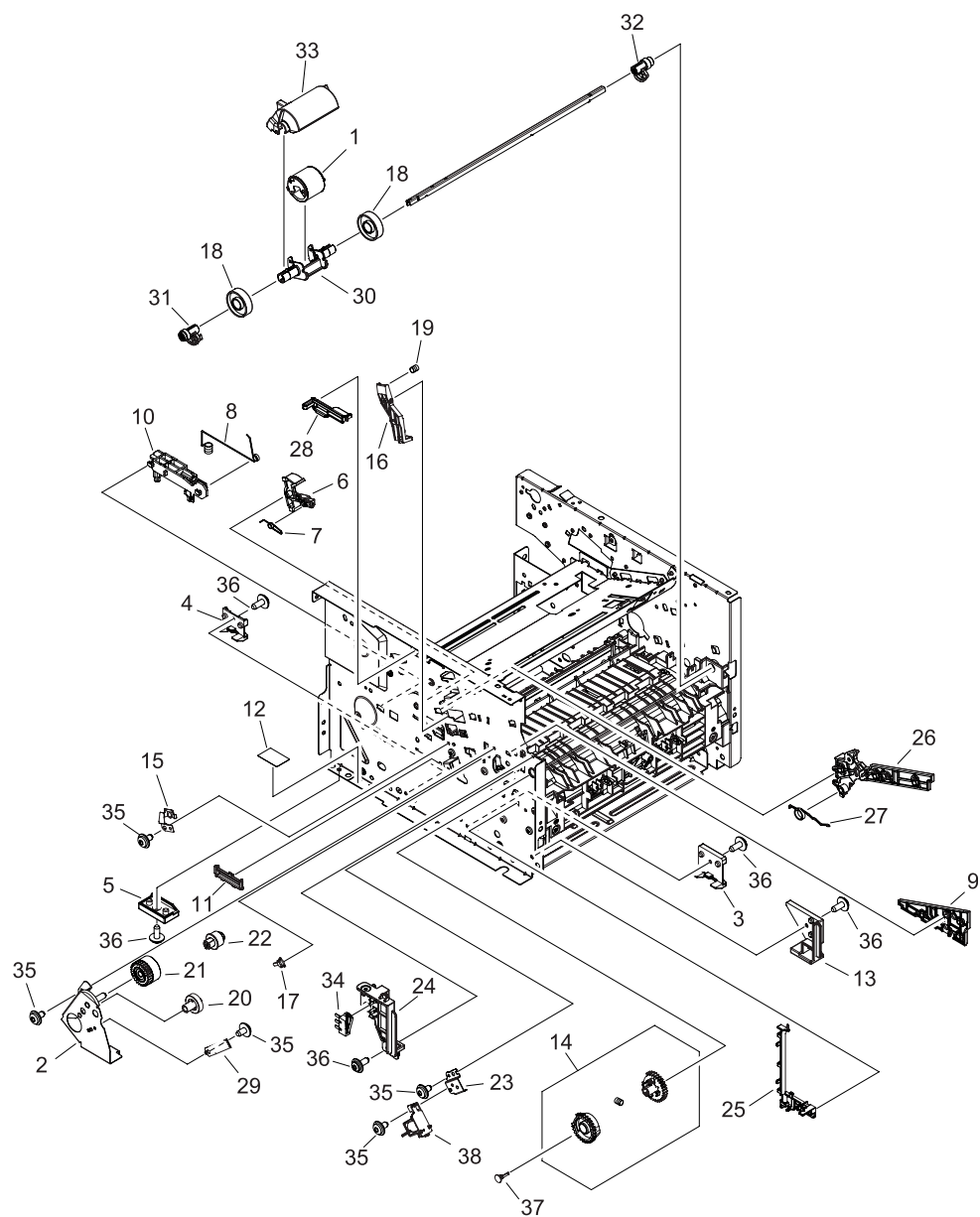


Figure 8-8 Internal components (4 of 4)

Table 8-9 Internal components (4 of 4)

Ref	Description	Part number	Qty
1	Roller, M.P. paper pick-up	RL1-1525-000	1
2	Side plate, M.P. drive	RL1-1531-000	1
3	Guide, cassette, left center 1	RC1-3461-000	1
4	Guide, cassette, left center 2	RC1-3462-000	1
5	Guide, cassette, left rear	RC1-3463-000	1
6	Lever, cartridge contact	RC1-3542-000	1
7	Spring, torsion	RC1-3543-000	1
8	Spring, contact	RC1-3719-000	1
9	Guide, cartridge, left lower	RC2-0339-000	1
10	Holder contact	RC2-0342-000	1
11	Guide, F.F.C	RC2-0423-000	1
12	Sheet, plate bottom	RC2-1578-000	1
13	Guide, cassette, left front	RL1-0518-000	1
14	Paper pick-up gear assembly	RM1-4275-000	1
15	Plate, drum grounding	RC1-3541-000	1
16	Arm lock	RC1-3561-000	1
17	Bushing	RC1-3562-000	1
18	Roller	RC1-0950-000	2
19	Spring, compression	RU5-2337-000	1
20	Gear, 19T	RU5-0927-000	1
21	Gear, 26T	RU5-0928-000	1
22	Gear, 14T	RU5-0929-000	1
23	Holder, M.P. solenoid	RC2-0334-000	1
24	Guide, cartridge font	RC2-0340-000	1
25	Guide, M.P. cable	RC2-0335-000	1
26	Guide, cartridge, left upper	RC2-0425-000	1
27	Spring, torsion	RC2-0427-000	1
28	Guide, F.F.C	RC2-0424-000	1
29	Spring, grounding	RC1-0944-000	1
30	Holder, paper pick-up roller	RC2-0386-000	1
31	Cam, M.P., left	RC2-0387-000	1
32	Cam, M.P., right	RC2-0388-000	1
33	Cover, paper pick-up roller	RC2-0420-000	1
34	Microswitch	RK2-0534-000	1

Ref	Description	Part number	Qty
35	Screw, RS, M3x6	XA9-1495-000	6
36	Screw, RS, M3x8	XA9-1504-000	6
37	Cap, continuity	RA0-1068-000	1
38	Solenoid	RK2-1587-000	1

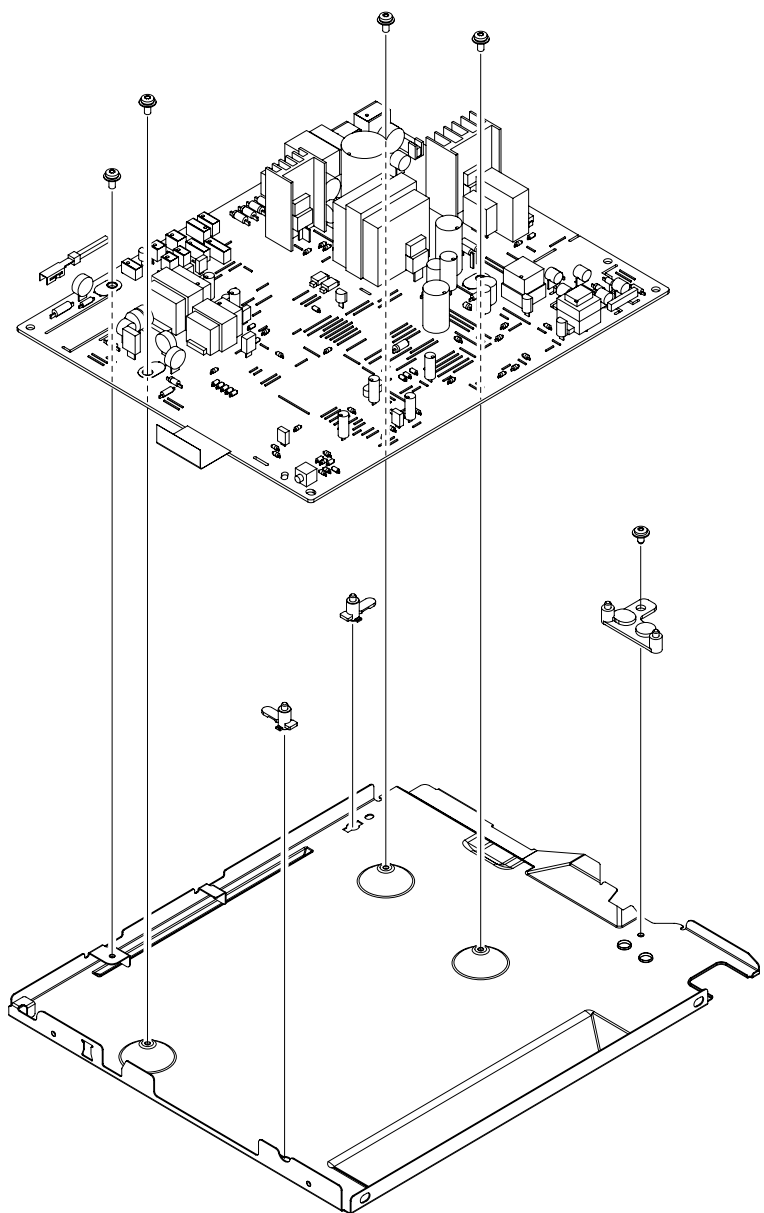


Figure 8-9 ECU assembly

Table 8-10 ECU assembly

Ref	Description	Part number	Qty
	ECU assembly (110 V)	RM1-4273-000	1
	ECU assembly (220 V)	RM1-4274-000	1

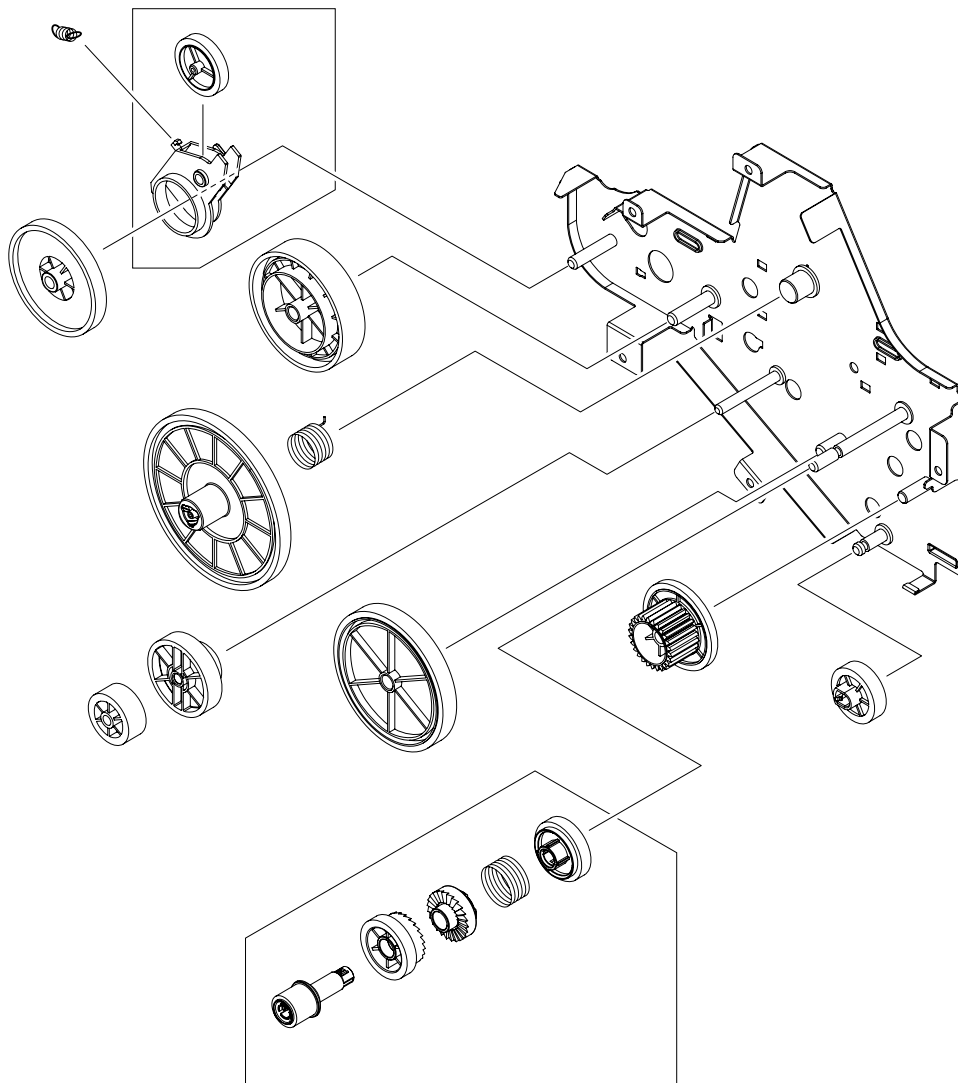


Figure 8-10 Main drive assembly

Table 8-11 Main drive assembly

Ref	Description	Part number	Qty
	Main drive assembly	RM1-4253-000	1

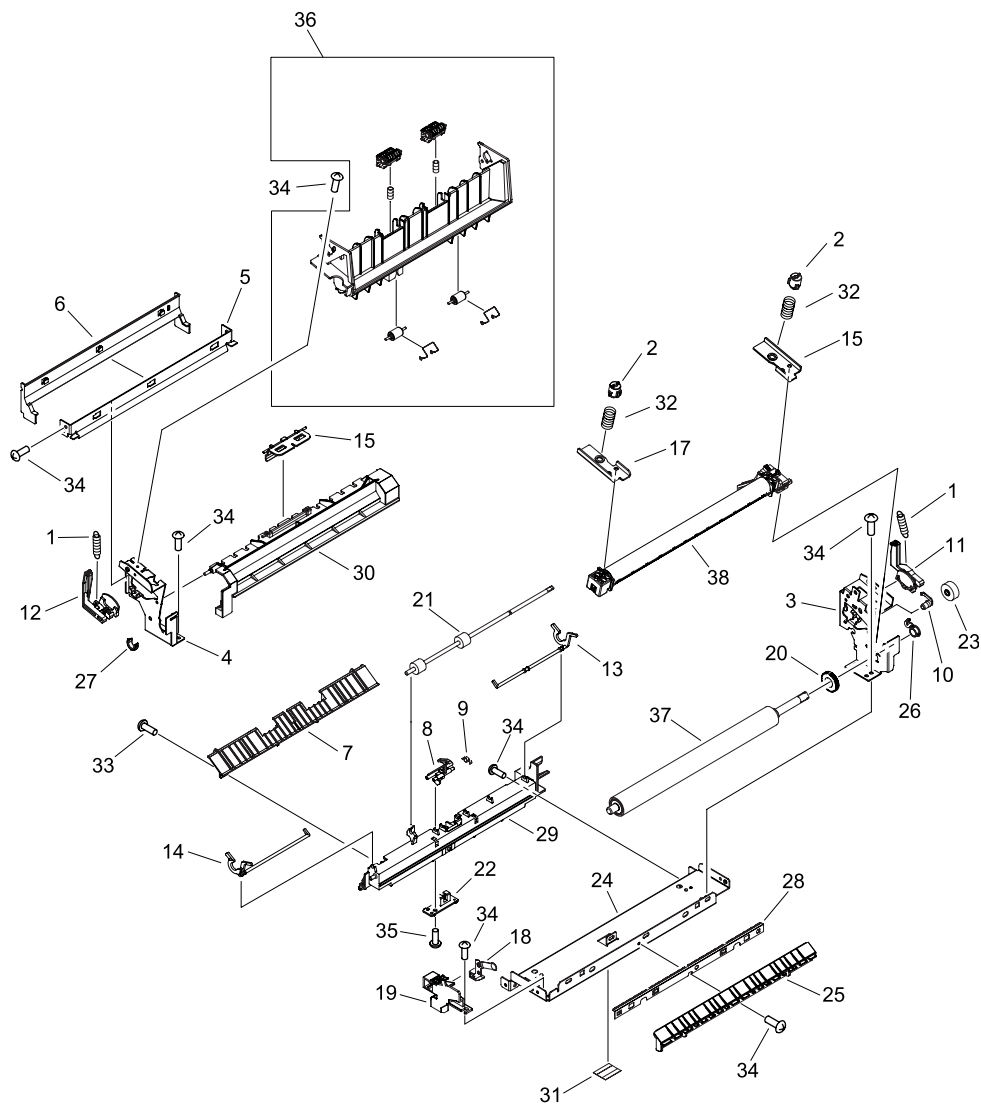


Figure 8-11 Fuser assembly

Table 8-12 Fuser assembly

Ref	Description	Part number	Qty
	Fuser assembly (110 V)	RM1-4247-000	1
	Fuser assembly (220 V)	RM1-4248-000	1
1	Spring, tension	RA0-1090-000	2
2	Retainer, spring	RA0-1189-000	1
3	Side plate, fixing, right	RC1-3604-000	1
4	Side plate, fixing, left	RC1-3605-000	1
5	Plate, fixing reinforcement	RC1-3606-000	1
6	Guide, fixing, upper	RC1-3607-000	1
7	Guide, paper separate, lower	RC1-3611-000	1
8	Flag, paper delivery sensor	RC1-3613-000	1
9	Spring, torsion	RC1-3614-000	1
10	Bushing	RC1-3615-000	1
11	Lever, pressure release, right	RC1-3616-000	1
12	Lever, pressure release, left	RC1-3617-000	1
13	Lever, pressure-release sensor, right	RC1-3618-000	1
14	Lever, pressure release sensor, left	RC1-3619-000	1
15	Flag, intertwine prevention	RC1-3622-000	1
16	Plate, pressure, right	RC1-3623-000	1
17	Plate, pressure, left	RC1-3624-000	1
18	Spring, compression	RC1-3625-000	1
19	Holder, leaf spring	RC1-3627-000	1
20	Ring, conductive rubber	RC1-3628-000	1
21	Roller, face-up	RC1-3633-000	1
22	Delivery sensor PCB assembly	RM1-1251-000	1
23	Gear, 17T	RU5-0330-000	1
24	Frame, fixing	RC2-0295-000	1
25	Guide, fixing entrance	RC2-0296-000	1
26	Bushing	RC2-0297-000	1
27	Bushing	RC2-0298-000	1
28	Needle, fixing static charge	RC2-0299-000	1
29	Holder, separate lower guide	RC2-0429-000	1
30	Cover, fixing	RC2-0300-000	1
31	Sheet, fixing bottom	RC2-0431-000	1
32	Spring, compression	RU5-2901-000	2

Ref	Description	Part number	Qty
33	Screw, with washer, M4x12	XA9-1422-000	1
34	Screw, tap, M3x6	XA9-1503-000	10
35	Screw, tap, binding head, M3x8	XB4-7300-809	1
36	Delivery frame assembly	RM1-1291-000	1
37	Roller, pressure	RC2-0303-000	1
38	Film guide assembly (110 V)	RM1-4249-000	1
39	Film guide assembly (220 V)	RM1-4250-000	1

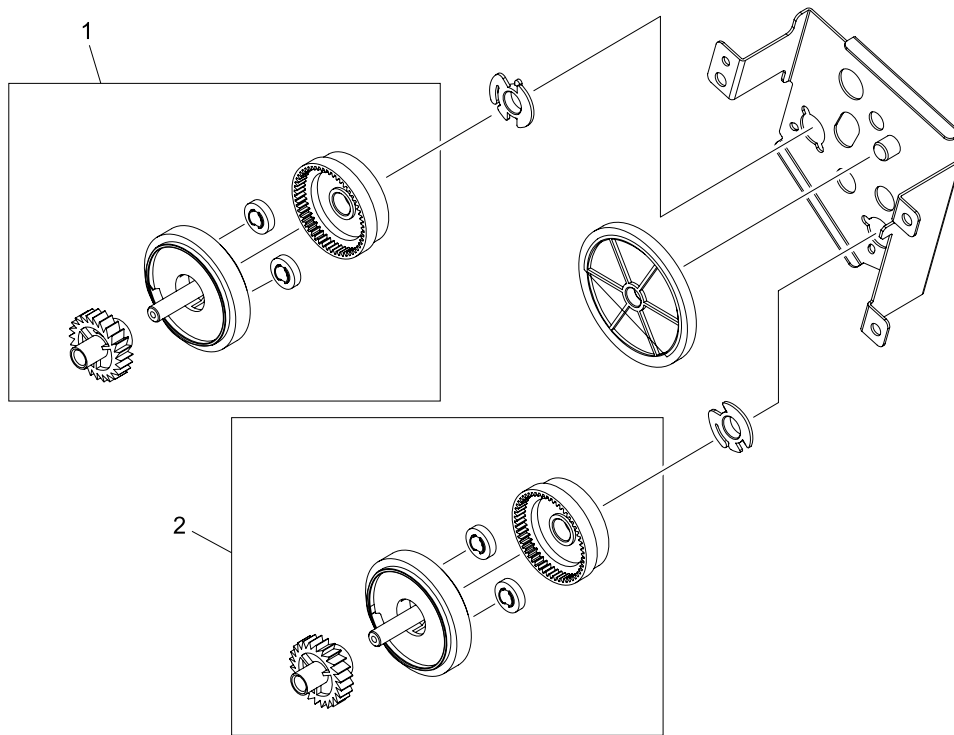


Figure 8-12 Duplexing drive assembly

Table 8-13 Duplexing drive assembly

Ref	Description	Part number	Qty
	Duplexing drive assembly (HP LJ P2015d, P2015dn, and P2015x)	RM1-4255-000	1
1	Normal-rotation drive assembly (HP LJ P2015d, P2015dn, and P2015x)	RM1-4256-000	1
2	Reverse-rotation drive assembly (HP LJ P2015d, P2015dn, and P2015x)	RM1-4257-000	1

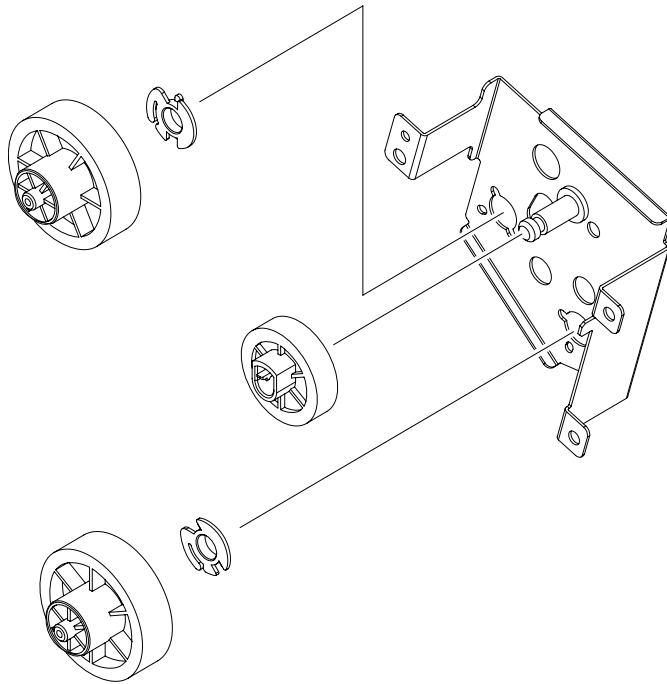


Figure 8-13 Face-down gear assembly

Table 8-14 Face-down gear assembly

Ref	Description	Part number	Qty
	Face-down gear assembly	RM1-1305-000	1

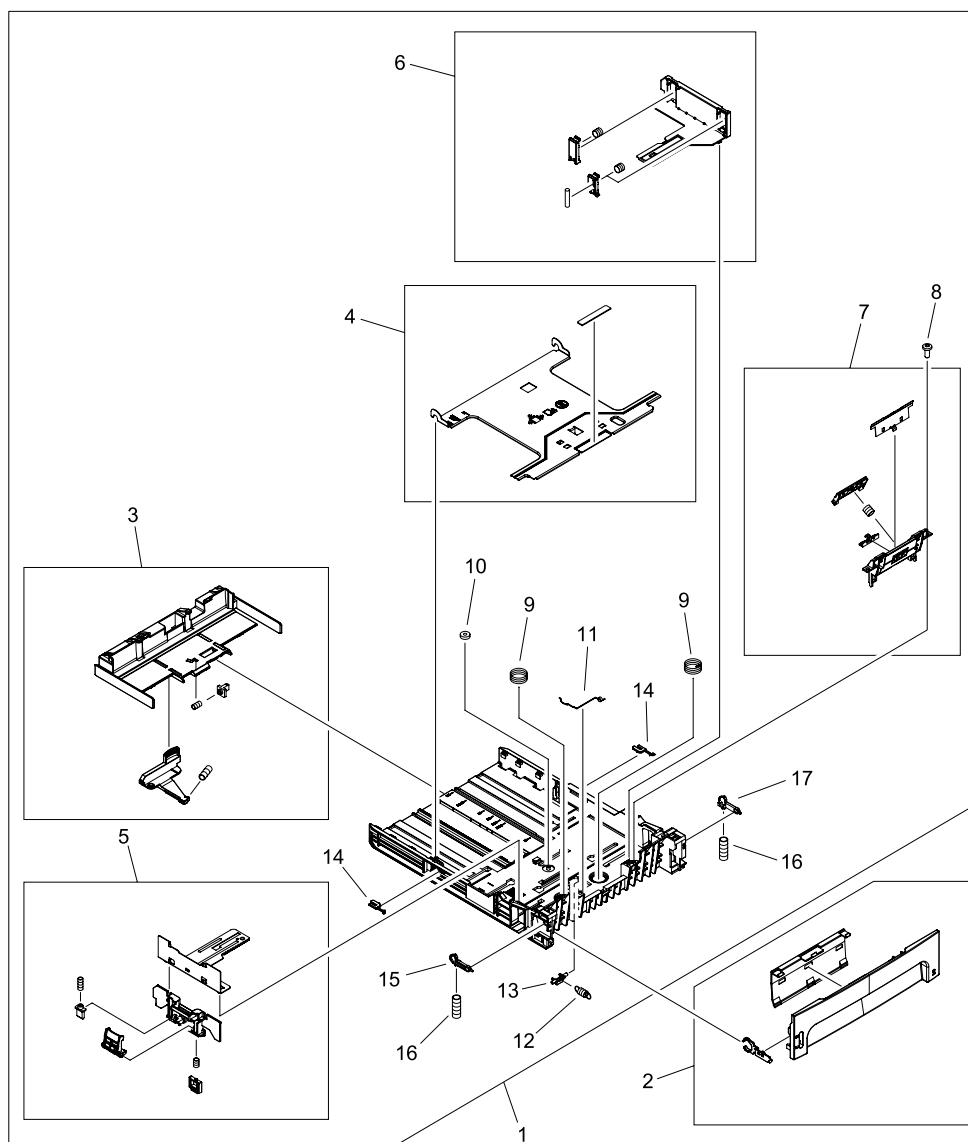


Figure 8-14 Cassette assembly

Table 8-15 Cassette assembly

Ref	Description	Part number	Qty
	Cassette	RM1-4251-000	1
1	Cassette body assembly	RC1-3483-000	1
2	Cassette cover assembly	RM1-4252-000	1
3	Back end limit assembly	RM1-1295-000	1
4	Plate, lifter	RL1-0522-000	1
5	Left paper side-end assembly	RM1-1296-000	1
6	Right paper side-end assembly	RM1-1297-020	1
7	Separation pad assembly	RM1-1298-000	1
8	Screw, M4x10	XB4-7401-005	2
9	Spring, compression	RC1-3489-000	2
10	Gear, 10T	RU5-0328-000	1
11	Spring, grounding	RC1-3492-000	1
12	Spring, tension	RU5-2324-000	1
13	Lock, lifter plate	RC1-3490-000	1
14	Stopper, claw	RC1-4198-000	2
15	Stopper, cassette left	RC1-3508-000	1
16	Spring, compression	RU5-2327-000	2
17	Stopper, cassette right	RC1-3507-000	1

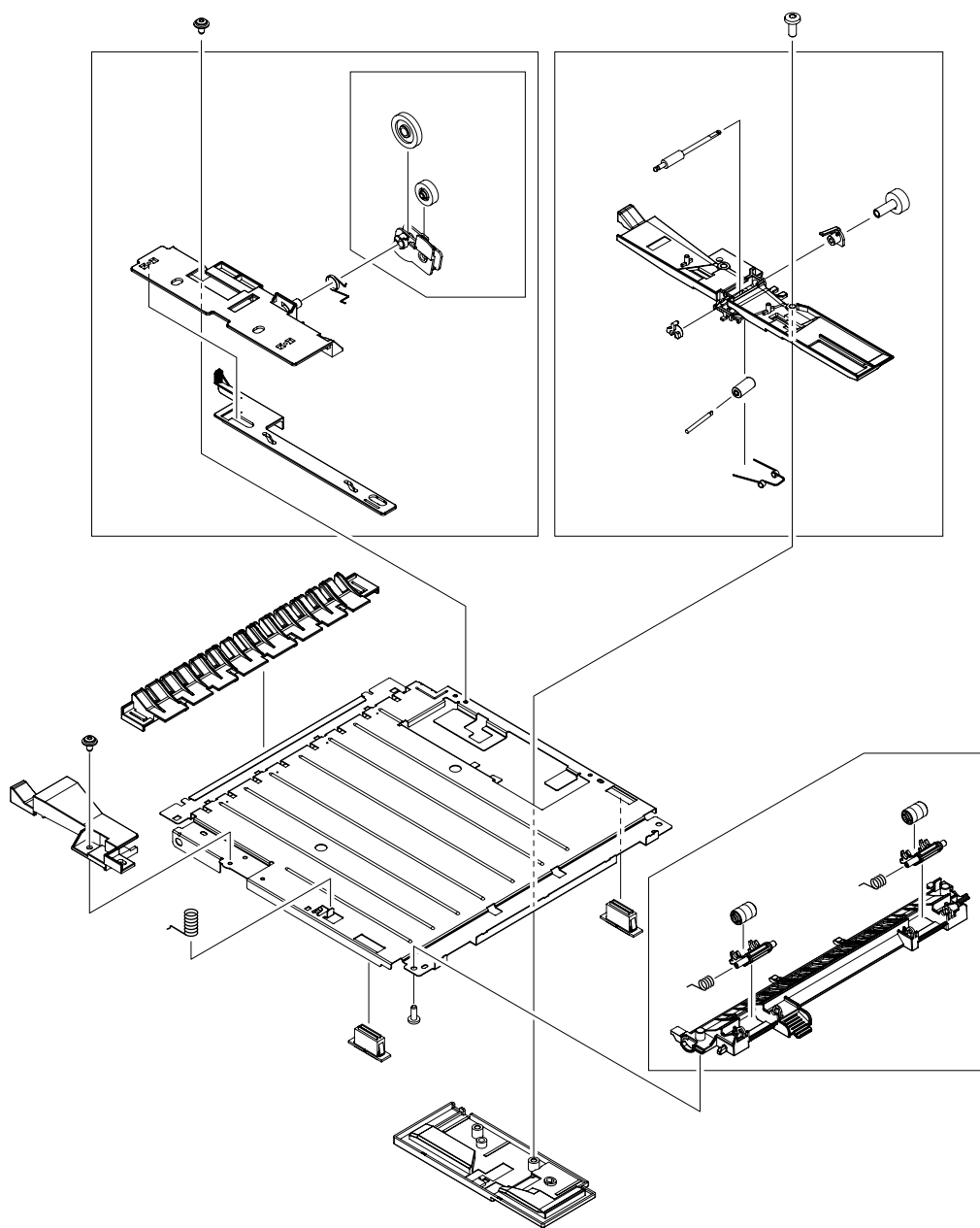


Figure 8-15 Duplexing assembly

Table 8-16 Duplexing assembly

Ref	Description	Part number	Qty
	Duplexing assembly (HP LJ P2015d, P2015dn, and P2015x)	RM1-4258-000	1

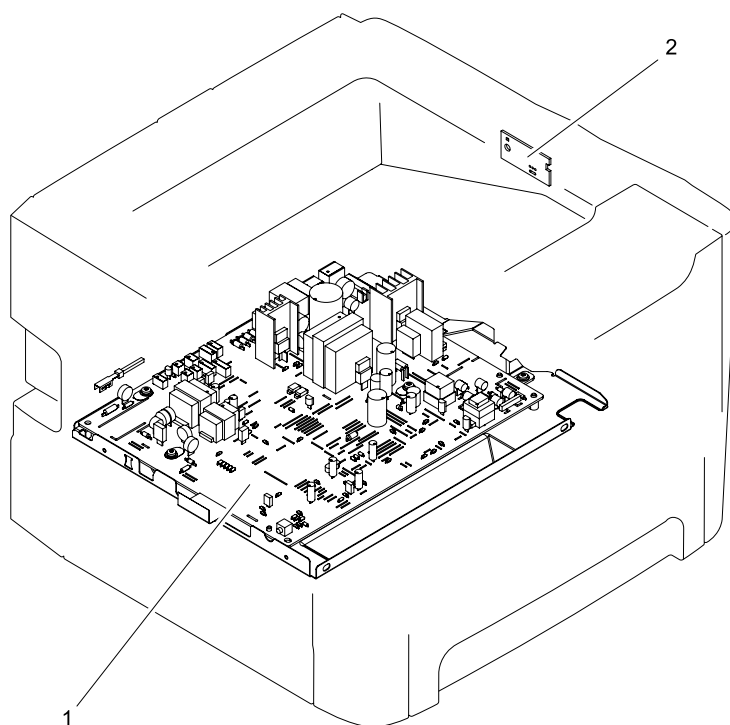


Figure 8-16 PCB assembly locations

Table 8-17 PCB assembly locations

Ref	Description	Part number	Qty
1	ECU assembly (110 V)	RM1-4273-000	1
1	ECU assembly (220 V)	RM1-4274-000	1
2	Duplex driver PCB assembly (HP LJ P2015d, P2015dn, and P2015x)	RM1-1262-000	1

Alphabetical parts list

Table 8-18 Alphabetical parts list

Description	Part number	Table and page
Arm lock	RC1-3561-000	Internal components (4 of 4) on page 207
Arm, cam	RC2-0405-000	Internal components (2 of 4) on page 201
Arm, idler roller	RC1-3482-000	Internal components (1 of 4) on page 199
Arm, link	RC2-0406-000	Internal components (2 of 4) on page 201
Arm, tag	RC2-0392-000	Internal components (2 of 4) on page 201
Back end limit assembly	RM1-1295-000	Cassette assembly on page 223
Base, separation pad	RC2-0419-000	Internal components (1 of 4) on page 199
Bushing	RB2-2897-000	Internal components (1 of 4) on page 199
Bushing	RC1-3665-000	Internal components (1 of 4) on page 199
Bushing	RC2-0356-000	Internal components (3 of 4) on page 205
Bushing	RC2-0357-000	Internal components (3 of 4) on page 205
Bushing	RC1-3562-000	Internal components (4 of 4) on page 207
Bushing	RC1-3615-000	Fuser assembly on page 215
Bushing	RC2-0297-000	Fuser assembly on page 215
Bushing	RC2-0298-000	Fuser assembly on page 215
Bushing, left	RB2-2896-000	Internal components (1 of 4) on page 199
Bushing, right	RB2-2895-000	Internal components (1 of 4) on page 199
Cable, memory tag	RM1-4163-000	Internal components (2 of 4) on page 201
Cam	RC2-0410-000	Internal components (2 of 4) on page 201
Cam, M.P., left	RC2-0387-000	Internal components (4 of 4) on page 207
Cam, M.P., right	RC2-0388-000	Internal components (4 of 4) on page 207

Table 8-18 Alphabetical parts list (continued)

Description	Part number	Table and page
Cam, right	RC1-3546-000	Internal components (2 of 4) on page 201
Cap, continuity	RA0-1068-000	Internal components (4 of 4) on page 207
Cartridge-door assembly	RM1-4266-000	Cartridge-door assembly on page 197
Cassette	RM1-4251-000	Assembly locations (1 of 2) on page 191
Cassette	RM1-4251-000	Cassette assembly on page 223
Cassette body assembly	RC1-3483-000	Cassette assembly on page 223
Cassette cover assembly	RM1-4252-000	Cassette assembly on page 223
Connector, drawer	VS1-7258-007	Internal components (2 of 4) on page 201
Cover, connector	RC2-0332-000	Covers on page 195
Cover, drum	RC1-3563-000	Internal components (3 of 4) on page 205
Cover, fixing	RC2-0300-000	Fuser assembly on page 215
Cover, front	RC2-0330-000	Covers on page 195
Cover, multipurpose	RM2-0407-000	Cartridge-door assembly on page 197
Cover, paper pick-up roller	RC2-0420-000	Internal components (4 of 4) on page 207
Cover, registration gear	RC1-3708-000	Internal components (3 of 4) on page 205
Delivery frame assembly	RM1-1291-000	Fuser assembly on page 215
Delivery sensor PCB assembly	RM1-1251-000	Fuser assembly on page 215
Duct	RC2-0351-000	Internal components (2 of 4) on page 201
Duct	RC2-0354-000	Internal components (2 of 4) on page 201
Duplex driver PCB assembly (HP LJ P2015d, P2015dn, and P2015x)	RM1-1262-000	Internal components (2 of 4) on page 201
Duplex driver PCB assembly (HP LJ P2015d, P2015dn, and P2015x)	RM1-1262-000	PCB assembly locations on page 227
Duplex-drive assembly	RM1-4255-000	Assembly locations (2 of 2) on page 193
Duplexing assembly (HP LJ P2015d, P2015dn, and P2015x)	RM1-4258-000	Duplexing assembly on page 225
Duplexing assembly (HP LJ P2015d, P2015dn, and P2015x)	RM1-4258-000	Assembly locations (2 of 2) on page 193

Table 8-18 Alphabetical parts list (continued)

Description	Part number	Table and page
Duplexing drive assembly (HP LJ P2015d, P2015dn, and P2015x)	RM1-4255-000	Duplexing drive assembly on page 219
ECU assembly (110 V)	RM1-4273-000	Assembly locations (2 of 2) on page 193
ECU assembly (110 V)	RM1-4273-000	ECU assembly on page 211
ECU assembly (110 V)	RM1-4273-000	PCB assembly locations on page 227
ECU assembly (220 V)	RM1-4273-000	Assembly locations (2 of 2) on page 193
ECU assembly (220 V)	RM1-4274-000	ECU assembly on page 211
ECU assembly (220 V)	RM1-4274-000	PCB assembly locations on page 227
Eliminator, static charge	RC2-0358-000	Internal components (3 of 4) on page 205
Expansion-tray assembly	RM1-4269-000	Cartridge-door assembly on page 197
Face-down gear assembly	RM1-1305-000	Assembly locations (1 of 2) on page 191
Face-down gear assembly	RM1-1305-000	Face-down gear assembly on page 221
Fan	RK2-1589-000	Internal components (2 of 4) on page 201
Film guide assembly (110 V)	RM1-4249-000	Fuser assembly on page 215
Film guide assembly (220 V)	RM1-4250-000	Fuser assembly on page 215
Flag, intertwine prevention	RC1-3622-000	Fuser assembly on page 215
Flag, M.P. sensor	RC2-0415-000	Internal components (1 of 4) on page 199
Flag, paper delivery sensor	RC1-3613-000	Fuser assembly on page 215
Flag, paper-sensing	RC1-3472-000	Internal components (1 of 4) on page 199
Frame, fixing	RC2-0295-000	Fuser assembly on page 215
Fuser assembly (110 V)	RM1-4247-000	Assembly locations (2 of 2) on page 193
Fuser assembly (110 V)	RM1-4247-000	Fuser assembly on page 215
Fuser assembly (220 V)	RM1-4248-000	Assembly locations (2 of 2) on page 193
Fuser assembly (220 V)	RM1-4248-000	Fuser assembly on page 215
Gear, 10T	RU5-0328-000	Cassette assembly on page 223
Gear, 14T	RU5-0929-000	Internal components (4 of 4) on page 207

Table 8-18 Alphabetical parts list (continued)

Description	Part number	Table and page
Gear, 17T	RU5-0330-000	Fuser assembly on page 215
Gear, 19T	RU5-0332-000	Internal components (1 of 4) on page 199
Gear, 19T	RU5-0927-000	Internal components (4 of 4) on page 207
Gear, 26T	RU5-0928-000	Internal components (4 of 4) on page 207
Gear, 29T	RU5-0331-000	Internal components (1 of 4) on page 199
Gear, 33T	RU5-0320-000	Internal components (3 of 4) on page 205
Guide, cable	RC2-1569-000	Internal components (1 of 4) on page 199
Guide, cable	RC2-0397-000	Internal components (2 of 4) on page 201
Guide, cartridge font	RC2-0340-000	Internal components (4 of 4) on page 207
Guide, cartridge, left lower	RC2-0339-000	Internal components (4 of 4) on page 207
Guide, cartridge, left upper	RC2-0425-000	Internal components (4 of 4) on page 207
Guide, cartridge, right lower	RC2-0346-000	Internal components (2 of 4) on page 201
Guide, cartridge, right upper	RC2-0426-000	Internal components (2 of 4) on page 201
Guide, cassette, left center 1	RC1-3461-000	Internal components (4 of 4) on page 207
Guide, cassette, left center 2	RC1-3462-000	Internal components (4 of 4) on page 207
Guide, cassette, left front	RL1-0518-000	Internal components (4 of 4) on page 207
Guide, cassette, left rear	RC1-3463-000	Internal components (4 of 4) on page 207
Guide, cassette, right center 1	RC1-3456-000	Internal components (2 of 4) on page 201
Guide, cassette, right center 2	RC1-3457-000	Internal components (2 of 4) on page 201
Guide, cassette, right front	RL1-0517-000	Internal components (2 of 4) on page 201
Guide, cassette, right rear	RC2-0416-000	Internal components (2 of 4) on page 201
Guide, F.F.C	RC2-0423-000	Internal components (4 of 4) on page 207

Table 8-18 Alphabetical parts list (continued)

Description	Part number	Table and page
Guide, F.F.C	RC2-0424-000	Internal components (4 of 4) on page 207
Guide, fixing entrance	RC2-0296-000	Fuser assembly on page 215
Guide, fixing, upper	RC1-3607-000	Fuser assembly on page 215
Guide, M.P. cable	RC2-0335-000	Internal components (4 of 4) on page 207
Guide, paper separate, lower	RC1-3611-000	Fuser assembly on page 215
Guide, reverse	RC2-0323-000	Internal components (1 of 4) on page 199
Guide, shutter, front	RC2-0428-000	Internal components (2 of 4) on page 201
Guide, shutter, rear	RC1-3535-000	Internal components (2 of 4) on page 201
Guide, transfer front	RC2-0359-000	Internal components (3 of 4) on page 205
Hinge, multipurpose, left	RC2-0421-000	Cartridge-door assembly on page 197
Hinge, multipurpose, right	RC2-0422-000	Cartridge-door assembly on page 197
Holder contact	RC2-0342-000	Internal components (4 of 4) on page 207
Holder, drawer connector	RC2-0396-000	Internal components (2 of 4) on page 201
Holder, fan	RC2-0349-000	Internal components (2 of 4) on page 201
Holder, leaf spring	RC1-3627-000	Fuser assembly on page 215
Holder, M.P. sensor	RC2-0414-000	Internal components (1 of 4) on page 199
Holder, M.P. solenoid	RC2-0334-000	Internal components (4 of 4) on page 207
Holder, panel PCB	RC2-0316-000	Covers on page 195
Holder, paper pick-up roller	RC2-0386-000	Internal components (4 of 4) on page 207
Holder, separate lower guide	RC2-0429-000	Fuser assembly on page 215
Holder, switch	RC1-3727-000	Internal components (2 of 4) on page 201
Inlet/switch cable assembly	RM1-4169-000	Internal components (2 of 4) on page 201
Inner cover assembly	RM1-4267-000	Cartridge-door assembly on page 197
Label, stapler prohibition	RC1-3794-000	Covers on page 195

Table 8-18 Alphabetical parts list (continued)

Description	Part number	Table and page
Label, transfer guide open	RC1-3796-000	Internal components (3 of 4) on page 205
Left cover assembly	RL1-1529-000	Covers on page 195
Left paper side-end assembly	RM1-1296-000	Cassette assembly on page 223
Lever, cartridge contact	RC1-3542-000	Internal components (4 of 4) on page 207
Lever, pressure release sensor, left	RC1-3619-000	Fuser assembly on page 215
Lever, pressure release, left	RC1-3617-000	Fuser assembly on page 215
Lever, pressure release, right	RC1-3616-000	Fuser assembly on page 215
Lever, pressure-release sensor, right	RC1-3618-000	Fuser assembly on page 215
Link, gear release	RC1-3668-000	Internal components (1 of 4) on page 199
Lock, lifter plate	RC1-3490-000	Cassette assembly on page 223
M.P. lifting-plate assembly	RM1-4268-000	Cartridge-door assembly on page 197
M.P. sensor PCB assembly	RM1-4162-000	Internal components (1 of 4) on page 199
Main drive assembly	RM1-4253-000	Assembly locations (1 of 2) on page 191
Main drive assembly	RM1-4253-000	Main drive assembly on page 213
Microswitch	RK2-0534-000	Internal components (4 of 4) on page 207
Motor, DC	RK2-1567-000	Internal components (2 of 4) on page 201
Needle, fixing static charge	RC2-0299-000	Fuser assembly on page 215
Normal-rotation drive assembly (HP LJ P2015d, P2015dn, and P2015x)	RM1-4256-000	Duplexing drive assembly on page 219
Pad, M.P. separation	RL1-1524-000	Internal components (1 of 4) on page 199
Paper pick-up gear assembly	RM1-1301-000	Internal components (1 of 4) on page 199
Paper pick-up gear assembly	RM1-4275-000	Internal components (4 of 4) on page 207
Paper retaining assembly (HP LJ P2015)	RM1-4276-000	Internal components (1 of 4) on page 199
Paper-feed guide assembly	RM1-4263-000	Internal components (1 of 4) on page 199
Paper-retaining assembly (HP LJ P2015d, P2015dn, and P2015x)	RM1-4265-000	Internal components (1 of 4) on page 199

Table 8-18 Alphabetical parts list (continued)

Description	Part number	Table and page
Paper-sensor PCB assembly	RM1-4159-000	Internal components (3 of 4) on page 205
Paper-width sensor assembly	RM1-4245-000	Internal components (3 of 4) on page 205
Plate, drum grounding	RC1-3565-000	Internal components (3 of 4) on page 205
Plate, drum grounding	RC1-3541-000	Internal components (4 of 4) on page 207
Plate, fixing reinforcement	RC1-3606-000	Fuser assembly on page 215
Plate, grounding	RC2-1568-000	Internal components (2 of 4) on page 201
Plate, lifter	RL1-0522-000	Cassette assembly on page 223
Plate, pressure, left	RC1-3624-000	Fuser assembly on page 215
Plate, pressure, right	RC1-3623-000	Fuser assembly on page 215
Plate, registration grounding	RC2-0384-000	Internal components (3 of 4) on page 205
Plate, solenoid holder	RC1-3459-000	Internal components (2 of 4) on page 201
Plate, transfer grounding	RC1-3698-000	Internal components (3 of 4) on page 205
Rear cover assembly (HP LJ P2015)	RM1-4277-000	Covers on page 195
Rear cover assembly (HP LJ P2015d, P2015dn, and P2015x)	RM1-4270-000	Covers on page 195
Registration assembly	RM1-4244-000	Assembly locations (1 of 2) on page 191
Registration assembly	RM1-4244-000	Internal components (3 of 4) on page 205
Retainer, spring	RA0-1189-000	Fuser assembly on page 215
Reverse-rotation drive assembly (HP LJ P2015d, P2015dn, and P2015x)	RM1-4257-000	Duplexing drive assembly on page 219
Right cover assembly	RL1-1530-000	Covers on page 195
Right paper side-end assembly	RM1-1297-020	Cassette assembly on page 223
Ring, conductive rubber	RC1-3628-000	Fuser assembly on page 215
Rod, grounding	RC2-0350-000	Internal components (2 of 4) on page 201
Roller	RC1-0950-000	Internal components (4 of 4) on page 207
Roller, face-down	RL1-0527-000	Internal components (1 of 4) on page 199
Roller, face-up	RC1-3633-000	Fuser assembly on page 215

Table 8-18 Alphabetical parts list (continued)

Description	Part number	Table and page
Roller, idler	RC1-3481-000	Internal components (1 of 4) on page 199
Roller, M.P. paper pick-up	RL1-1525-000	Internal components (4 of 4) on page 207
Roller, paper pick-up	RL1-0540-000	Internal components (1 of 4) on page 199
Roller, paper pickup idler	RC1-3470-000	Internal components (1 of 4) on page 199
Roller, pressure	RC2-0303-000	Fuser assembly on page 215
Roller, transfer	RM1-4279-000	Internal components (3 of 4) on page 205
Scanner assembly	RM1-4262-000	Internal components (2 of 4) on page 201
Screw, M4x10	XB4-7401-005	Cassette assembly on page 223
Screw, RS, M3x6	XA9-1495-000	Internal components (1 of 4) on page 199
Screw, RS, M3x6	XA9-1561-000	Internal components (2 of 4) on page 201
Screw, RS, M3x6	XA9-1495-000	Internal components (4 of 4) on page 207
Screw, RS, M3x6 (HP LJ P2015)	XA9-1495-000	Internal components (2 of 4) on page 201
Screw, RS, M3x6 (HP LJ P2015d, P2015dn, and P2015x)	XA9-1495-000	Internal components (2 of 4) on page 201
Screw, RS, M3x8	XA9-1504-000	Internal components (1 of 4) on page 199
Screw, RS, M3x8	XA9-1504-000	Internal components (2 of 4) on page 201
Screw, RS, M3x8	XA9-1504-000	Internal components (3 of 4) on page 205
Screw, RS, M3x8	XA9-1504-000	Internal components (4 of 4) on page 207
Screw, tap, binding head, M3x8	XB4-7300-809	Covers on page 195
Screw, tap, binding head, M3x8	XB4-7300-809	Internal components (1 of 4) on page 199
Screw, tap, binding head, M3x8	XB4-7300-809	Internal components (2 of 4) on page 201
Screw, tap, binding head, M3x8	XB4-7300-809	Internal components (3 of 4) on page 205
Screw, tap, binding head, M3x8	XB4-7300-809	Fuser assembly on page 215
Screw, tap, M3x6	XA9-1503-000	Internal components (1 of 4) on page 199

Table 8-18 Alphabetical parts list (continued)

Description	Part number	Table and page
Screw, tap, M3x6	XA9-1503-000	Internal components (2 of 4) on page 201
Screw, tap, M3x6	XA9-1503-000	Fuser assembly on page 215
Screw, tap, M3x8	XA9-1648-000	Internal components (2 of 4) on page 201
Screw, tapping, truss head, M4x10	XB4-7401-005	Internal components (1 of 4) on page 199
Screw, tapping, truss head, M4x10	XB4-7401-005	Internal components (3 of 4) on page 205
Screw, toothed washer, M4x6	XB2-7400-606	Internal components (2 of 4) on page 201
Screw, with washer, M3x8	XA9-1420-000	Internal components (3 of 4) on page 205
Screw, with washer, M4x12	XA9-1422-000	Internal components (3 of 4) on page 205
Screw, with washer, M4x12	XA9-1422-000	Fuser assembly on page 215
Separation pad assembly	RM1-1298-000	Cassette assembly on page 223
Shaft, paper pick-up drive	RC1-3471-000	Internal components (1 of 4) on page 199
Sheet, fixing bottom	RC2-0431-000	Fuser assembly on page 215
Sheet, insulator	RC2-0314-000	Covers on page 195
Sheet, noise absorb	RC2-0312-000	Covers on page 195
Sheet, noise absorb	RC2-0311-000	Covers on page 195
Sheet, plate bottom	RC2-1578-000	Internal components (4 of 4) on page 207
Sheet, registration damper	RC1-3695-000	Internal components (3 of 4) on page 205
Shield, duplexing solenoid (HP LJ P2015d, P2015dn, and P2015x)	RC2-0347-000	Internal components (2 of 4) on page 201
Shutter link assembly	RM1-1321-000	Internal components (3 of 4) on page 205
Side plate, fixing, left	RC1-3605-000	Fuser assembly on page 215
Side plate, fixing, right	RC1-3604-000	Fuser assembly on page 215
Side plate, M.P. drive	RL1-1531-000	Internal components (4 of 4) on page 207
Solenoid	RK2-1587-000	Internal components (4 of 4) on page 207
Solenoid (HP LJ P2015)	RK2-0424-000	Internal components (2 of 4) on page 201
Solenoid (HP LJ P2015d, P2015dn, and P2015x)	RK2-0420-000	Internal components (2 of 4) on page 201

Table 8-18 Alphabetical parts list (continued)

Description	Part number	Table and page
Spring compression	RU5-2894-000	Internal components (1 of 4) on page 199
Spring, compression	RU5-2323-000	Internal components (1 of 4) on page 199
Spring, compression	RU5-2335-000	Internal components (2 of 4) on page 201
Spring, compression	RC1-3736-000	Internal components (3 of 4) on page 205
Spring, compression	RU5-2144-000	Internal components (3 of 4) on page 205
Spring, compression	RU5-2338-000	Internal components (3 of 4) on page 205
Spring, compression	RU5-2337-000	Internal components (4 of 4) on page 207
Spring, compression	RC1-3625-000	Fuser assembly on page 215
Spring, compression	RU5-2901-000	Fuser assembly on page 215
Spring, compression	RC1-3489-000	Cassette assembly on page 223
Spring, compression	RU5-2327-000	Cassette assembly on page 223
Spring, contact	RC2-0344-000	Internal components (3 of 4) on page 205
Spring, contact	RC1-3719-000	Internal components (4 of 4) on page 207
Spring, grounding	RC1-3700-000	Internal components (3 of 4) on page 205
Spring, grounding	RC1-0944-000	Internal components (4 of 4) on page 207
Spring, grounding	RC1-3492-000	Cassette assembly on page 223
Spring, tension	RU5-2895-000	Cartridge-door assembly on page 197
Spring, tension	RU5-2898-000	Internal components (1 of 4) on page 199
Spring, tension	RA0-1090-000	Fuser assembly on page 215
Spring, tension	RU5-2324-000	Cassette assembly on page 223
Spring, torsion	RC1-3543-000	Internal components (4 of 4) on page 207
Spring, torsion	RC2-0427-000	Internal components (4 of 4) on page 207
Spring, torsion	RC1-3614-000	Fuser assembly on page 215

Table 8-18 Alphabetical parts list (continued)

Description	Part number	Table and page
Spring, transfer, right	RC1-3702-000	Internal components (3 of 4) on page 205
Stopper	RC1-3580-000	Internal components (2 of 4) on page 201
Stopper, cassette left	RC1-3508-000	Cassette assembly on page 223
Stopper, cassette right	RC1-3507-000	Cassette assembly on page 223
Stopper, claw	RC1-4198-000	Cassette assembly on page 223
Top cover assembly	RM1-4272-000	Covers on page 195
Top sensor assembly	RM1-1283-000	Internal components (3 of 4) on page 205

Numerical parts list

Table 8-19 Numerical parts list

Part number	Description	Table and page
RA0-1068-000	Cap, continuity	Internal components (4 of 4) on page 207
RA0-1090-000	Spring, tension	Fuser assembly on page 215
RA0-1189-000	Retainer, spring	Fuser assembly on page 215
RB2-2895-000	Bushing, right	Internal components (1 of 4) on page 199
RB2-2896-000	Bushing, left	Internal components (1 of 4) on page 199
RB2-2897-000	Bushing	Internal components (1 of 4) on page 199
RC1-0944-000	Spring, grounding	Internal components (4 of 4) on page 207
RC1-0950-000	Roller	Internal components (4 of 4) on page 207
RC1-3456-000	Guide, cassette, right center 1	Internal components (2 of 4) on page 201
RC1-3457-000	Guide, cassette, right center 2	Internal components (2 of 4) on page 201
RC1-3459-000	Plate, solenoid holder	Internal components (2 of 4) on page 201
RC1-3461-000	Guide, cassette, left center 1	Internal components (4 of 4) on page 207
RC1-3462-000	Guide, cassette, left center 2	Internal components (4 of 4) on page 207
RC1-3463-000	Guide, cassette, left rear	Internal components (4 of 4) on page 207
RC1-3470-000	Roller, paper pickup idler	Internal components (1 of 4) on page 199
RC1-3471-000	Shaft, paper pick-up drive	Internal components (1 of 4) on page 199
RC1-3472-000	Flag, paper-sensing	Internal components (1 of 4) on page 199
RC1-3481-000	Roller, idler	Internal components (1 of 4) on page 199
RC1-3482-000	Arm, idler roller	Internal components (1 of 4) on page 199
RC1-3483-000	Cassette body assembly	Cassette assembly on page 223
RC1-3489-000	Spring, compression	Cassette assembly on page 223

Table 8-19 Numerical parts list (continued)

Part number	Description	Table and page
RC1-3490-000	Lock, lifter plate	Cassette assembly on page 223
RC1-3492-000	Spring, grounding	Cassette assembly on page 223
RC1-3507-000	Stopper, cassette right	Cassette assembly on page 223
RC1-3508-000	Stopper, cassette left	Cassette assembly on page 223
RC1-3535-000	Guide, shutter, rear	Internal components (2 of 4) on page 201
RC1-3541-000	Plate, drum grounding	Internal components (4 of 4) on page 207
RC1-3542-000	Lever, cartridge contact	Internal components (4 of 4) on page 207
RC1-3543-000	Spring, torsion	Internal components (4 of 4) on page 207
RC1-3546-000	Cam, right	Internal components (2 of 4) on page 201
RC1-3561-000	Arm lock	Internal components (4 of 4) on page 207
RC1-3562-000	Bushing	Internal components (4 of 4) on page 207
RC1-3563-000	Cover, drum	Internal components (3 of 4) on page 205
RC1-3565-000	Plate, drum grounding	Internal components (3 of 4) on page 205
RC1-3580-000	Stopper	Internal components (2 of 4) on page 201
RC1-3604-000	Side plate, fixing, right	Fuser assembly on page 215
RC1-3605-000	Side plate, fixing, left	Fuser assembly on page 215
RC1-3606-000	Plate, fixing reinforcement	Fuser assembly on page 215
RC1-3607-000	Guide, fixing, upper	Fuser assembly on page 215
RC1-3611-000	Guide, paper separate, lower	Fuser assembly on page 215
RC1-3613-000	Flag, paper delivery sensor	Fuser assembly on page 215
RC1-3614-000	Spring, torsion	Fuser assembly on page 215
RC1-3615-000	Bushing	Fuser assembly on page 215
RC1-3616-000	Lever, pressure release, right	Fuser assembly on page 215
RC1-3617-000	Lever, pressure release, left	Fuser assembly on page 215
RC1-3618-000	Lever, pressure-release sensor, right	Fuser assembly on page 215
RC1-3619-000	Lever, pressure release sensor, left	Fuser assembly on page 215

Table 8-19 Numerical parts list (continued)

Part number	Description	Table and page
RC1-3622-000	Flag, intertwine prevention	Fuser assembly on page 215
RC1-3623-000	Plate, pressure, right	Fuser assembly on page 215
RC1-3624-000	Plate, pressure, left	Fuser assembly on page 215
RC1-3625-000	Spring, compression	Fuser assembly on page 215
RC1-3627-000	Holder, leaf spring	Fuser assembly on page 215
RC1-3628-000	Ring, conductive rubber	Fuser assembly on page 215
RC1-3633-000	Roller, face-up	Fuser assembly on page 215
RC1-3665-000	Bushing	Internal components (1 of 4) on page 199
RC1-3668-000	Link, gear release	Internal components (1 of 4) on page 199
RC1-3695-000	Sheet, registration damper	Internal components (3 of 4) on page 205
RC1-3698-000	Plate, transfer grounding	Internal components (3 of 4) on page 205
RC1-3700-000	Spring, grounding	Internal components (3 of 4) on page 205
RC1-3702-000	Spring, transfer, right	Internal components (3 of 4) on page 205
RC1-3708-000	Cover, registration gear	Internal components (3 of 4) on page 205
RC1-3719-000	Spring, contact	Internal components (4 of 4) on page 207
RC1-3727-000	Holder, switch	Internal components (2 of 4) on page 201
RC1-3736-000	Spring, compression	Internal components (3 of 4) on page 205
RC1-3794-000	Label, stapler prohibition	Covers on page 195
RC1-3796-000	Label, transfer guide open	Internal components (3 of 4) on page 205
RC1-4198-000	Stopper, claw	Cassette assembly on page 223
RC2-0295-000	Frame, fixing	Fuser assembly on page 215
RC2-0296-000	Guide, fixing entrance	Fuser assembly on page 215
RC2-0297-000	Bushing	Fuser assembly on page 215
RC2-0298-000	Bushing	Fuser assembly on page 215
RC2-0299-000	Needle, fixing static charge	Fuser assembly on page 215
RC2-0300-000	Cover, fixing	Fuser assembly on page 215
RC2-0303-000	Roller, pressure	Fuser assembly on page 215

Table 8-19 Numerical parts list (continued)

Part number	Description	Table and page
RC2-0311-000	Sheet, noise absorb	Covers on page 195
RC2-0312-000	Sheet, noise absorb	Covers on page 195
RC2-0314-000	Sheet, insulator	Covers on page 195
RC2-0316-000	Holder, panel PCB	Covers on page 195
RC2-0323-000	Guide, reverse	Internal components (1 of 4) on page 199
RC2-0330-000	Cover, front	Covers on page 195
RC2-0332-000	Cover, connector	Covers on page 195
RC2-0334-000	Holder, M.P. solenoid	Internal components (4 of 4) on page 207
RC2-0335-000	Guide, M.P. cable	Internal components (4 of 4) on page 207
RC2-0339-000	Guide, cartridge, left lower	Internal components (4 of 4) on page 207
RC2-0340-000	Guide, cartridge font	Internal components (4 of 4) on page 207
RC2-0342-000	Holder contact	Internal components (4 of 4) on page 207
RC2-0344-000	Spring, contact	Internal components (3 of 4) on page 205
RC2-0346-000	Guide, cartridge, right lower	Internal components (2 of 4) on page 201
RC2-0347-000	Shield, duplexing solenoid (HP LJ P2015d, P2015dn, and P2015x)	Internal components (2 of 4) on page 201
RC2-0349-000	Holder, fan	Internal components (2 of 4) on page 201
RC2-0350-000	Rod, grounding	Internal components (2 of 4) on page 201
RC2-0351-000	Duct	Internal components (2 of 4) on page 201
RC2-0354-000	Duct	Internal components (2 of 4) on page 201
RC2-0356-000	Bushing	Internal components (3 of 4) on page 205
RC2-0357-000	Bushing	Internal components (3 of 4) on page 205
RC2-0358-000	Eliminator, static charge	Internal components (3 of 4) on page 205
RC2-0359-000	Guide, transfer front	Internal components (3 of 4) on page 205
RC2-0384-000	Plate, registration grounding	Internal components (3 of 4) on page 205

Table 8-19 Numerical parts list (continued)

Part number	Description	Table and page
RC2-0386-000	Holder, paper pick-up roller	Internal components (4 of 4) on page 207
RC2-0387-000	Cam, M.P., left	Internal components (4 of 4) on page 207
RC2-0388-000	Cam, M.P., right	Internal components (4 of 4) on page 207
RC2-0392-000	Arm, tag	Internal components (2 of 4) on page 201
RC2-0396-000	Holder, drawer connector	Internal components (2 of 4) on page 201
RC2-0397-000	Guide, cable	Internal components (2 of 4) on page 201
RC2-0405-000	Arm, cam	Internal components (2 of 4) on page 201
RC2-0406-000	Arm, link	Internal components (2 of 4) on page 201
RC2-0410-000	Cam	Internal components (2 of 4) on page 201
RC2-0414-000	Holder, M.P. sensor	Internal components (1 of 4) on page 199
RC2-0415-000	Flag, M.P. sensor	Internal components (1 of 4) on page 199
RC2-0416-000	Guide, cassette, right rear	Internal components (2 of 4) on page 201
RC2-0419-000	Base, separation pad	Internal components (1 of 4) on page 199
RC2-0420-000	Cover, paper pick-up roller	Internal components (4 of 4) on page 207
RC2-0421-000	Hinge, multipurpose, left	Cartridge-door assembly on page 197
RC2-0422-000	Hinge, multipurpose, right	Cartridge-door assembly on page 197
RC2-0423-000	Guide, F.F.C	Internal components (4 of 4) on page 207
RC2-0424-000	Guide, F.F.C	Internal components (4 of 4) on page 207
RC2-0425-000	Guide, cartridge, left upper	Internal components (4 of 4) on page 207
RC2-0426-000	Guide, cartridge, right upper	Internal components (2 of 4) on page 201
RC2-0427-000	Spring, torsion	Internal components (4 of 4) on page 207
RC2-0428-000	Guide, shutter, front	Internal components (2 of 4) on page 201

Table 8-19 Numerical parts list (continued)

Part number	Description	Table and page
RC2-0429-000	Holder, separate lower guide	Fuser assembly on page 215
RC2-0431-000	Sheet, fixing bottom	Fuser assembly on page 215
RC2-1568-000	Plate, grounding	Internal components (2 of 4) on page 201
RC2-1569-000	Guide, cable	Internal components (1 of 4) on page 199
RC2-1578-000	Sheet, plate bottom	Internal components (4 of 4) on page 207
RK2-0420-000	Solenoid (HP LJ P2015d, P2015dn, and P2015x)	Internal components (2 of 4) on page 201
RK2-0424-000	Solenoid (HP LJ P2015)	Internal components (2 of 4) on page 201
RK2-0534-000	Microswitch	Internal components (4 of 4) on page 207
RK2-1567-000	Motor, DC	Internal components (2 of 4) on page 201
RK2-1587-000	Solenoid	Internal components (4 of 4) on page 207
RK2-1589-000	Fan	Internal components (2 of 4) on page 201
RL1-0517-000	Guide, cassette, right front	Internal components (2 of 4) on page 201
RL1-0518-000	Guide, cassette, left front	Internal components (4 of 4) on page 207
RL1-0522-000	Plate, lifter	Cassette assembly on page 223
RL1-0527-000	Roller, face-down	Internal components (1 of 4) on page 199
RL1-0540-000	Roller, paper pick-up	Internal components (1 of 4) on page 199
RL1-1524-000	Pad, M.P. separation	Internal components (1 of 4) on page 199
RL1-1525-000	Roller, M.P. paper pick-up	Internal components (4 of 4) on page 207
RL1-1529-000	Left cover assembly	Covers on page 195
RL1-1530-000	Right cover assembly	Covers on page 195
RL1-1531-000	Side plate, M.P. drive	Internal components (4 of 4) on page 207
RM1-1251-000	Delivery sensor PCB assembly	Fuser assembly on page 215
RM1-1262-000	Duplex driver PCB assembly (HP LJ P2015d, P2015dn, and P2015x)	Internal components (2 of 4) on page 201
RM1-1262-000	Duplex driver PCB assembly (HP LJ P2015d, P2015dn, and P2015x)	PCB assembly locations on page 227

Table 8-19 Numerical parts list (continued)

Part number	Description	Table and page
RM1-1283-000	Top sensor assembly	Internal components (3 of 4) on page 205
RM1-1291-000	Delivery frame assembly	Fuser assembly on page 215
RM1-1295-000	Back end limit assembly	Cassette assembly on page 223
RM1-1296-000	Left paper side-end assembly	Cassette assembly on page 223
RM1-1297-020	Right paper side-end assembly	Cassette assembly on page 223
RM1-1298-000	Separation pad assembly	Cassette assembly on page 223
RM1-1301-000	Paper pick-up gear assembly	Internal components (1 of 4) on page 199
RM1-1305-000	Face-down gear assembly	Assembly locations (1 of 2) on page 191
RM1-1305-000	Face-down gear assembly	Face-down gear assembly on page 221
RM1-1321-000	Shutter link assembly	Internal components (3 of 4) on page 205
RM1-4159-000	Paper-sensor PCB assembly	Internal components (3 of 4) on page 205
RM1-4162-000	M.P. sensor PCB assembly	Internal components (1 of 4) on page 199
RM1-4163-000	Cable, memory tag	Internal components (2 of 4) on page 201
RM1-4169-000	Inlet/switch cable assembly	Internal components (2 of 4) on page 201
RM1-4244-000	Registration assembly	Assembly locations (1 of 2) on page 191
RM1-4244-000	Registration assembly	Internal components (3 of 4) on page 205
RM1-4245-000	Paper-width sensor assembly	Internal components (3 of 4) on page 205
RM1-4247-000	Fuser assembly (110 V)	Assembly locations (2 of 2) on page 193
RM1-4247-000	Fuser assembly (110 V)	Fuser assembly on page 215
RM1-4248-000	Fuser assembly (220 V)	Assembly locations (2 of 2) on page 193
RM1-4248-000	Fuser assembly (220 V)	Fuser assembly on page 215
RM1-4249-000	Film guide assembly (110 V)	Fuser assembly on page 215
RM1-4250-000	Film guide assembly (220 V)	Fuser assembly on page 215
RM1-4251-000	Cassette	Assembly locations (1 of 2) on page 191

Table 8-19 Numerical parts list (continued)

Part number	Description	Table and page
RM1-4251-000	Cassette	Cassette assembly on page 223
RM1-4252-000	Cassette cover assembly	Cassette assembly on page 223
RM1-4253-000	Main drive assembly	Assembly locations (1 of 2) on page 191
RM1-4253-000	Main drive assembly	Main drive assembly on page 213
RM1-4255-000	Duplex-drive assembly	Assembly locations (2 of 2) on page 193
RM1-4255-000	Duplexing drive assembly (HP LJ P2015d, P2015dn, and P2015x)	Duplexing drive assembly on page 219
RM1-4256-000	Normal-rotation drive assembly (HP LJ P2015d, P2015dn, and P2015x)	Duplexing drive assembly on page 219
RM1-4257-000	Reverse-rotation drive assembly (HP LJ P2015d, P2015dn, and P2015x)	Duplexing drive assembly on page 219
RM1-4258-000	Duplexing assembly (HP LJ P2015d, P2015dn, and P2015x)	Assembly locations (2 of 2) on page 193
RM1-4258-000	Duplexing assembly (HP LJ P2015d, P2015dn, and P2015x)	Duplexing assembly on page 225
RM1-4262-000	Scanner assembly	Internal components (2 of 4) on page 201
RM1-4263-000	Paper-feed guide assembly	Internal components (1 of 4) on page 199
RM1-4265-000	Paper-retaining assembly (HP LJ P2015d, P2015dn, and P2015x)	Internal components (1 of 4) on page 199
RM1-4266-000	Cartridge-door assembly	Cartridge-door assembly on page 197
RM1-4267-000	Inner cover assembly	Cartridge-door assembly on page 197
RM1-4268-000	M.P. lifting-plate assembly	Cartridge-door assembly on page 197
RM1-4269-000	Expansion-tray assembly	Cartridge-door assembly on page 197
RM1-4270-000	Rear cover assembly (HP LJ P2015d, P2015dn, and P2015x)	Covers on page 195
RM1-4272-000	Top cover assembly	Covers on page 195
RM1-4273-000	ECU assembly (110 V)	Assembly locations (2 of 2) on page 193
RM1-4273-000	ECU assembly (220 V)	Assembly locations (2 of 2) on page 193
RM1-4273-000	ECU assembly (110 V)	ECU assembly on page 211
RM1-4273-000	ECU assembly (110 V)	PCB assembly locations on page 227

Table 8-19 Numerical parts list (continued)

Part number	Description	Table and page
RM1-4274-000	ECU assembly (220 V)	ECU assembly on page 211
RM1-4274-000	ECU assembly (220 V)	PCB assembly locations on page 227
RM1-4275-000	Paper pick-up gear assembly	Internal components (4 of 4) on page 207
RM1-4276-000	Paper retaining assembly (HP LJ P2015)	Internal components (1 of 4) on page 199
RM1-4277-000	Rear cover assembly (HP LJ P2015)	Covers on page 195
RM1-4279-000	Roller, transfer	Internal components (3 of 4) on page 205
RM2-0407-000	Cover, multipurpose	Cartridge-door assembly on page 197
RU5-0320-000	Gear, 33T	Internal components (3 of 4) on page 205
RU5-0328-000	Gear, 10T	Cassette assembly on page 223
RU5-0330-000	Gear, 17T	Fuser assembly on page 215
RU5-0331-000	Gear, 29T	Internal components (1 of 4) on page 199
RU5-0332-000	Gear, 19T	Internal components (1 of 4) on page 199
RU5-0927-000	Gear, 19T	Internal components (4 of 4) on page 207
RU5-0928-000	Gear, 26T	Internal components (4 of 4) on page 207
RU5-0929-000	Gear, 14T	Internal components (4 of 4) on page 207
RU5-2144-000	Spring, compression	Internal components (3 of 4) on page 205
RU5-2323-000	Spring, compression	Internal components (1 of 4) on page 199
RU5-2324-000	Spring, tension	Cassette assembly on page 223
RU5-2327-000	Spring, compression	Cassette assembly on page 223
RU5-2335-000	Spring, compression	Internal components (2 of 4) on page 201
RU5-2337-000	Spring, compression	Internal components (4 of 4) on page 207
RU5-2338-000	Spring, compression	Internal components (3 of 4) on page 205
RU5-2894-000	Spring compression	Internal components (1 of 4) on page 199

Table 8-19 Numerical parts list (continued)

Part number	Description	Table and page
RU5-2895-000	Spring, tension	Cartridge-door assembly on page 197
RU5-2898-000	Spring, tension	Internal components (1 of 4) on page 199
RU5-2901-000	Spring, compression	Fuser assembly on page 215
VS1-7258-007	Connector, drawer	Internal components (2 of 4) on page 201
XA9-1420-000	Screw, with washer, M3x8	Internal components (3 of 4) on page 205
XA9-1422-000	Screw, with washer, M4x12	Internal components (3 of 4) on page 205
XA9-1422-000	Screw, with washer, M4x12	Fuser assembly on page 215
XA9-1495-000	Screw, RS, M3x6	Internal components (1 of 4) on page 199
XA9-1495-000	Screw, RS, M3x6 (HP LJ P2015d, P2015dn, and P2015x)	Internal components (2 of 4) on page 201
XA9-1495-000	Screw, RS, M3x6 (HP LJ P2015)	Internal components (2 of 4) on page 201
XA9-1495-000	Screw, RS, M3x6	Internal components (4 of 4) on page 207
XA9-1503-000	Screw, tap, M3x6	Internal components (1 of 4) on page 199
XA9-1503-000	Screw, tap, M3x6	Internal components (2 of 4) on page 201
XA9-1503-000	Screw, tap, M3x6	Fuser assembly on page 215
XA9-1504-000	Screw, RS, M3x8	Internal components (1 of 4) on page 199
XA9-1504-000	Screw, RS, M3x8	Internal components (2 of 4) on page 201
XA9-1504-000	Screw, RS, M3x8	Internal components (3 of 4) on page 205
XA9-1504-000	Screw, RS, M3x8	Internal components (4 of 4) on page 207
XA9-1561-000	Screw, RS, M3x6	Internal components (2 of 4) on page 201
XA9-1648-000	Screw, tap, M3x8	Internal components (2 of 4) on page 201
XB2-7400-606	Screw, toothed washer, M4x6	Internal components (2 of 4) on page 201
XB4-7300-809	Screw, tap, binding head, M3x8	Covers on page 195
XB4-7300-809	Screw, tap, binding head, M3x8	Internal components (1 of 4) on page 199

Table 8-19 Numerical parts list (continued)

Part number	Description	Table and page
XB4-7300-809	Screw, tap, binding head, M3x8	Internal components (2 of 4) on page 201
XB4-7300-809	Screw, tap, binding head, M3x8	Internal components (3 of 4) on page 205
XB4-7300-809	Screw, tap, binding head, M3x8	Fuser assembly on page 215
XB4-7401-005	Screw, tapping, truss head, M4x10	Internal components (1 of 4) on page 199
XB4-7401-005	Screw, tapping, truss head, M4x10	Internal components (3 of 4) on page 205
XB4-7401-005	Screw, M4x10	Cassette assembly on page 223

A **Accessory/Consumable addendum**

This appendix provides information on the following topics:

- [Consumables and accessories](#)
- [10/100 networking print servers](#)
- [HP print cartridges](#)
- [DIMMs \(memory or font\)](#)

Consumables and accessories

Product name	Description	Part number
Print cartridge	3,000-page print cartridge	Q7553A
Print cartridge	7,000-page print cartridge	Q7553X
Pickup roller	Tray 1 pickup roller	CB366-67901
Pickup roller	Tray 2 pickup roller	CB366-67902
Separation pad	Separation pad for 250-sheet feeder	RM1-1298-000CN
250-sheet paper tray	Optional tray 3	Q5931A
<i>HP LaserJet Family Print Media Guide</i>		http://www.hp.com/support/ljpaperguide

10/100 networking print servers

Table A-1 HP LaserJet P2015 Series printer

Item and description	Order number
HP Jetdirect en3700 fast Ethernet print server	J7942A
HP Jetdirect en2400 802.11g wireless external print server (full featured, USB port)	J7951A

HP print cartridges

HP policy on non-HP print cartridges

Hewlett-Packard Company cannot recommend the use of non-HP print cartridges, either new, refilled, or remanufactured. Since they are not HP products, Hewlett-Packard cannot influence their design or control their quality. Service or repair that is required as a result of using non-HP print cartridges will not be covered under the printer warranty.



NOTE The warranty does not apply to defects resulting from software, interfacing, or parts not supplied by Hewlett-Packard.

Storing print cartridges

Do not remove the print cartridge from its package until you are ready to use it, and minimize exposure to light.

Print cartridge life expectancy

The average cartridge yield is 3000 pages in accordance with ISO/IEC 19752. A replacement cartridge that has an average yield of 7000 pages in accordance with ISO/IEC 19752 is also available. Actual cartridge yield depends on specific use.

Saving toner

EconoMode is a feature that allows the printer to use less toner per page. Selecting this option may extend the life of the print cartridge and reduce cost per page. However, it will also reduce print quality. The printed image is lighter, but it is adequate for printing drafts or proofs. HP does not recommend full-time use of EconoMode. If EconoMode is used full-time, it is possible that the toner supply will outlast the mechanical parts in the toner cartridge. If print quality begins to degrade under these circumstances, you will need to install a new toner cartridge, even if there is toner supply remaining in the cartridge.

DIMMs (memory or font)

The following sections provide instructions for installing, testing, and removing DIMMs.

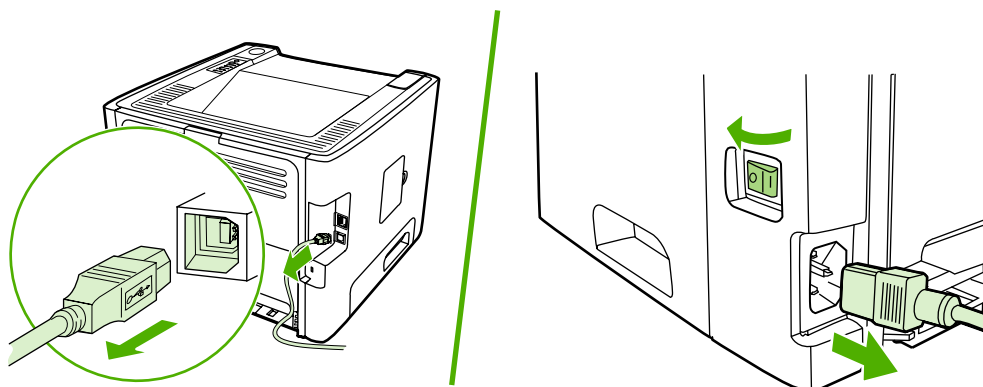
Install a DIMM

To install a DIMM, follow the instructions below:

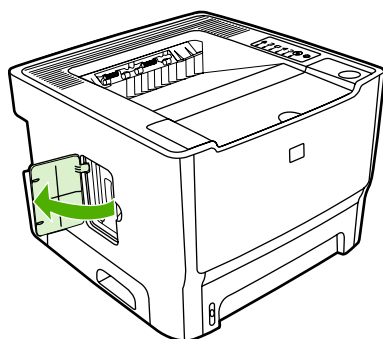


CAUTION Handling a DIMM (memory) without wearing a grounded, antistatic device might damage the DIMM. Touch any metal part of the printer or other grounded metal before touching the DIMM.

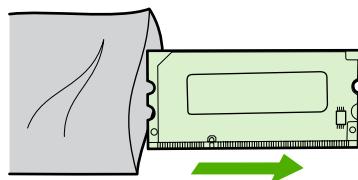
1. Use the power switch to turn off the printer, and then unplug all of the cables and cords connected to the printer.



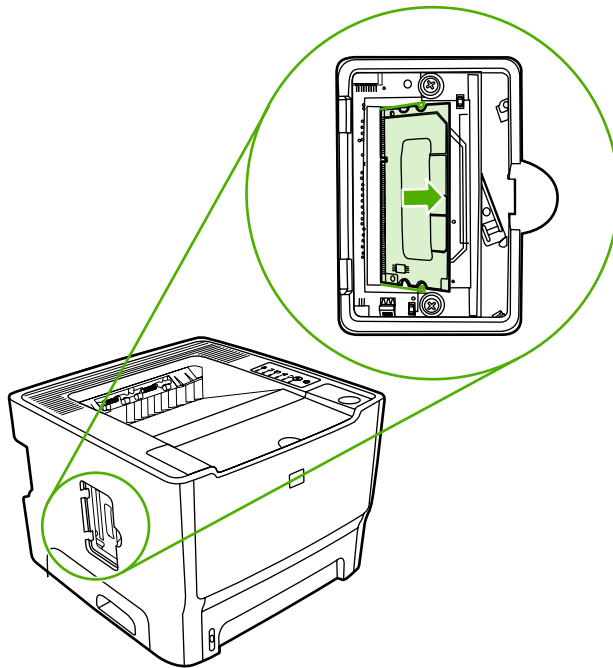
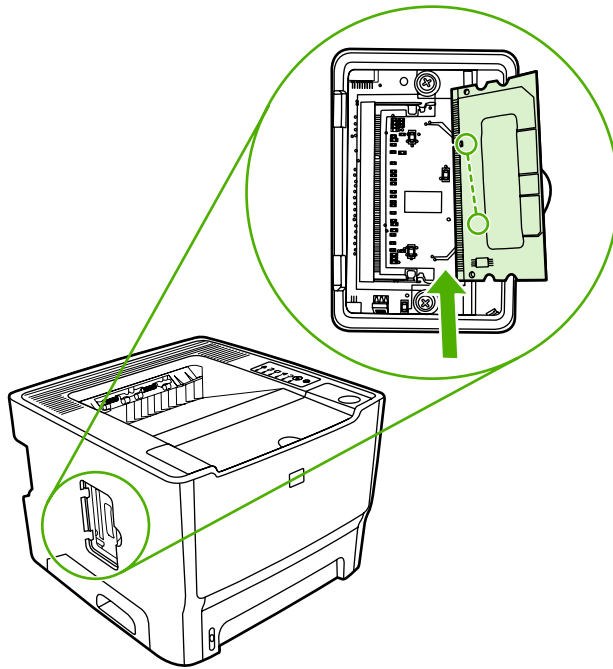
2. Open the DIMM door.



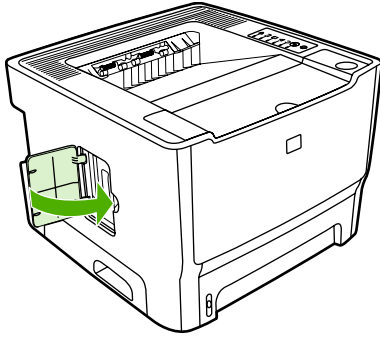
3. Remove the DIMM from the antistatic bag it came in, grasping the DIMM on the top edge.



4. With the gold contacts facing upward, insert the DIMM in the DIMM seat and press the DIMM body in until the metal retaining pins click.



5. Close the DIMM door.



6. Reconnect all printer cables and cords, and then use the power switch to turn on the printer.

Test the DIMM installation

To test the DIMM installation, print a configuration page, and check the Total Memory specified on the page.

If all lights on the control panel are blinking, the DIMM installation was unsuccessful. Remove the DIMM and reinstall it.

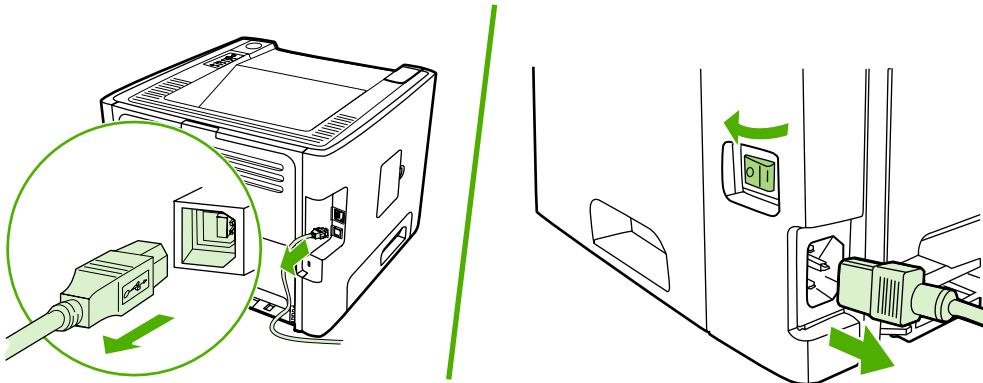
Remove a DIMM

To remove a DIMM, follow the instructions below:

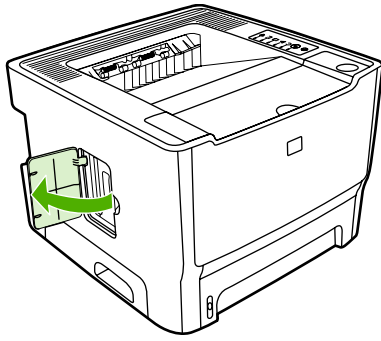


CAUTION Handling a DIMM (memory) without wearing a grounded, antistatic device might damage the DIMM. Touch any metal part of the printer or other grounded metal before touching the DIMM.

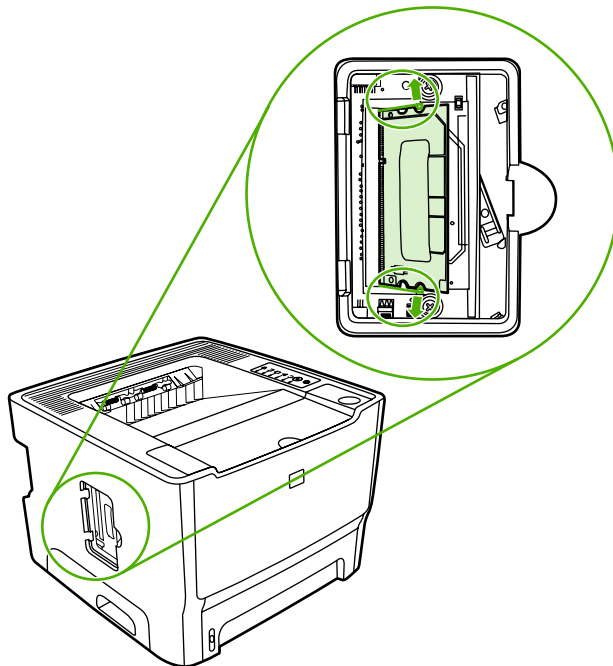
1. Use the power switch to turn off the printer, and then unplug all of the cables and cords connected to the printer.



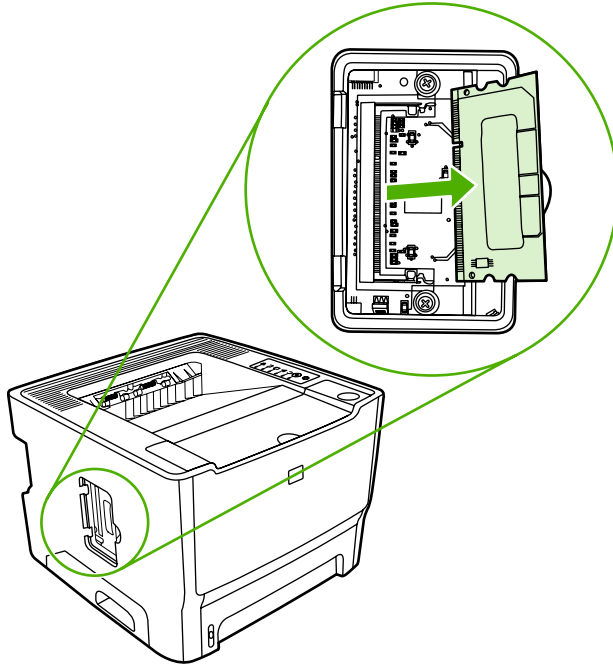
2. Open the DIMM door.



3. Unlock the DIMM retaining pins by pressing them outward.

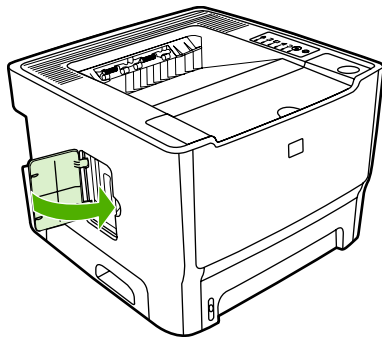


4. Grasp the DIMM on the bottom edge, and then remove the DIMM from the printer.



NOTE Store the DIMM in an antistatic bag.

5. Close the DIMM door.



6. Reconnect all printer cables and cords, and then use the power switch to turn on the printer.

B Service and support

This appendix provides information on the following topics:

- [Hardware service](#)
- [Extended warranty](#)
- [Guidelines for repacking the printer](#)
- [How to contact HP](#)

Hardware service

If your hardware fails during the warranty period, Hewlett-Packard offers the following support options:

- **Hewlett-Packard repair services:** Hewlett-Packard will arrange to pick up the unit, repair it, and return it to you within 5 to 10 business days, depending on your location.
- **Hewlett-Packard authorized service provider:** You can return the unit to a local authorized service dealer.

Extended warranty

HP Care Pack provides coverage for the HP product and all HP-supplied internal components. The hardware maintenance covers a three-year period from the date of the HP product purchase. The customer may purchase an HP Care Pack up to one year from the date of purchase of the HP product. For more information, contact the HP Customer Care Service and Support group.

HP Care Pack options might be available after the standard warranty period has expired. Go to <http://www.hpexpress-services.com/10467a/> and enter the product number to identify the HP Care Pack options that are available for your product.

Guidelines for repacking the printer

Use the following guidelines when repacking the printer:

- If possible, include print samples and 5 to 10 sheets of paper or other media that did not print correctly.
- Remove and keep any DIMMs (memory) installed in the printer.



CAUTION Static electricity can damage DIMMs. When handling DIMMs, wear a grounded, antistatic wrist strap.

- Remove and keep any cables, trays, and optional accessories installed in the printer.
- Remove and keep the print cartridge.



CAUTION To prevent damage to the print cartridge, store the print cartridge in its original packing material, or store it so that it is not exposed to light.

- If possible, use the original shipping container and packing material. *Shipping damage as a result of inadequate packing is your responsibility.* If you have already disposed of the printer's packing material, contact a local mailing service for information on repacking the printer.
- Hewlett-Packard recommends that you insure the equipment for shipment.

How to contact HP

If you need to contact HP for service or support, use one of the following links:

- In the United States, go to <http://www.hp.com/support/ljP2015/>.
- Worldwide, go to <http://www.hp.com/>.

C Printer specifications

This appendix provides information on the following topics:

- [Environmental specifications](#)
- [Acoustic emissions](#)
- [Electrical specifications](#)
- [Physical specifications](#)
- [Printer capacities and ratings](#)
- [Memory specifications](#)
- [Port availability](#)

Environmental specifications

Operating environment	Printer plugged into an AC outlet: <ul style="list-style-type: none">• Temperature: 10° C to 32.5° C (50° F to 90.5° F)• Humidity: 20 to 80 percent (no condensation)
Storage environment	Printer unplugged from an AC outlet: <ul style="list-style-type: none">• Temperature: 0° C to 40° C (32° F to 104° F)• Humidity: 10 to 80 percent (no condensation)



NOTE Values are based on preliminary data. See <http://www.hp.com/support/ljP2015> for current information.

Acoustic emissions

Declared per ISO 9296

Table C-1 HP LaserJet P2015 printer

Sound power level	Printing (27 ppm): L_{WAd} = 6.4 Bels A and 62 dB (A) Ready (Sleep): Inaudible
Sound pressure level bystander position	Printing (27 ppm): L_{pAm} = 50 dB (A) Ready (Sleep): Inaudible



NOTE Values are based on preliminary data. See <http://www.hp.com/support/ljP2015> for current information.

NOTE Configuration tested: HP LaserJet P2015 base base unit, 26 ppm, standard tray, A4 paper, and simplex continuous print.

Electrical specifications



WARNING! Power requirements are based on the country/region where the printer is sold. Do not convert operating voltages. Doing so might damage the printer and void the product warranty.

Table C-2 HP LaserJet P2015 printer

Power requirements (110)	110-127 V (+/-10%), 50/60 Hz (+/-2)
Power requirements (220)	220 V - 240 V (+/-10%), 50/60 Hz (+/-2 Hz)
Power consumption	<ul style="list-style-type: none">• During printing (27 ppm): 350 watts (average)• During Ready (Standby) and Sleep*: 7 Watts• * Instant-on fuser technology• Off: <0.1 watts
Rated current	<ul style="list-style-type: none">• 4.9 amps at 115 volts• 2.9 amps at 230 volts

Table C-3 HP LaserJet P2015d printer, HP LaserJet P2015n printer, HP LaserJet P2015x printer

Power requirements (110)	110-127 V (+/-10%), 50/60 Hz (+/-2)
Power requirements (220)	220 V - 240 V (+/-10%), 50/60 Hz (+/-2 Hz)
Power consumption	<ul style="list-style-type: none">• During printing (27 ppm): 350 watts (average)• During Ready (Standby) and Sleep*: 7 Watts• * Instant-on fuser technology• Off: <0.1 watts
Rated current	<ul style="list-style-type: none">• 4.9 amps at 115 volts• 2.9 amps at 230 volts

Table C-4 HP LaserJet P2015dn printer

Power requirements (110)	110-127 V (+/-10%), 50/60 Hz (+/-2)
Power requirements (220)	220 V - 240 V (+/-10%), 50/60 Hz (+/-2 Hz)
Power consumption	<ul style="list-style-type: none">• During printing (27 ppm): 350 watts (average)• During Ready (Standby) and Sleep*: 7 Watts <p>* Instant-on fuser technology</p> <ul style="list-style-type: none">• Off: <0.1 watts
Rated current	<ul style="list-style-type: none">• 4.9 amps at 115 volts• 2.9 amps at 230 volts



NOTE Values are based on preliminary data. See <http://www.hp.com/support/ljP2015> for current information.

NOTE The power reported is the highest value measured for monochrome printing using all standard voltages.

NOTE The default time from Ready mode to Sleep mode and the recovery time from Sleep mode to the start of printing is less than 10 seconds because of the instant-on fusing.

NOTE The heat dissipation in Ready mode is 25 BTU/hour.

Physical specifications

Dimensions	<ul style="list-style-type: none">• Width: 350 mm (16.8 inches)• Depth: 361 mm (14.2 inches)• Height: 256 mm (10.0 inches)
Weight (3,000-page cartridge installed)	HP LaserJet P2015 printer: 10.7 kg (23.6 lb)



NOTE Values are based on preliminary data. See <http://www.hp.com/support/ljP2015> for current information.

Printer capacities and ratings

Print speed	HP LaserJet P2015 printer: <ul style="list-style-type: none">• 27 ppm (letter), 26 ppm (A4)• First page out in as few as 8.5 seconds
Tray 2 capacity	250 sheets of regular weight 75 g/m ² (20 lb) paper
Tray 1 capacity	50 sheets of regular weight 75 g/m ² ((20 lb)) paper
Optional input tray (tray 3) capacity	250 sheets of regular weight 75 g/m ² (20 lb) paper
Top (face down) output bin capacity	125 sheets of regular weight 75 g/m ² (20 lb) paper
Minimum paper size	76 by 127 mm (3 by 5 inches)
Maximum paper size	216 by 356 mm (8.5 by 14 inches)
Media weight	Output bin: 60 to 105 g/m ² (16 to 28 lbs) Straight through media path: 60 to 163 g/m ² (16 to 43 lbs)
Base memory	32 MB RAM
Upgrade memory expansion	One DIMM slot available for a 32, 64, 128, or 256 MB RAM DIMM
Print resolution	<ul style="list-style-type: none">• 1200 dpi: This setting uses ProRes 1200 to provide fine-line detail at 1200 x 1200 dpi.• 1200 effective dpi: This setting provides 1200 dpi effective output quality using FastRes 1200.• 600 dpi: This setting provides 600 x 600 dpi output with Resolution Enhancement technology (REt) for improved text.
Duty cycle	<ul style="list-style-type: none">• 10,000 single-sided pages per month (maximum)• 1,000 single-sided pages per month (average)
PCL	PCL 5e, PCL 6
Postscript emulation	HP postscript level 3 emulation

Memory specifications

Base memory	32 MB RAM
Upgrade memory expansion	100-pin, 66 MHz minimum speed

Port availability

USB	Compatible with High-speed USB 2.0 specifications
Network	RJ-45, Ethernet 10/100
(networking-equipped models only)	

D Regulatory information

FCC compliance

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy. If it is not installed and used in accordance with the instructions, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase separation between equipment and receiver.
- Connect equipment to an outlet on a circuit different from that to which the receiver is located.
- Consult your dealer or an experienced radio/TV technician.



NOTE Any changes or modifications to the printer that are not expressly approved by Hewlett-Packard could void the user's authority to operate this equipment.

Use of a shielded interface cable is required to comply with the Class B limits of Part 15 of FCC rules.

Declaration of Conformity statements

Declaration of Conformity

according to ISO/IEC Guide 22 and EN 45014

Manufacturer's Name: Hewlett-Packard Company
Manufacturer's Address: 11311 Chinden Boulevard,
Boise, Idaho 83714-1021, USA

declares that the product

Product Name: HP LaserJet P2015 Series
Regulatory Model ³⁾: BOISB-0602-00

Product Options: Including: Q5931A — Optional 250-Sheet Input Tray
ALL

Toner Cartridges: Q7553A / Q7553X

conforms to the following Product Specifications:

Safety: IEC 60950-1:2001 / EN 60950-1:2001 +A11
IEC 60825-1:1993 +A1 +A2/EN 60825-1:1994 +A1 +A2 Class 1 Laser/LED Product)
GB4943-2001

EMC: CISPR 22:1993 +A1 +A2/ EN 55022:1994 Class B¹⁾
EN 61000-3-2:2000
EN 61000-3-3:1995 / A1
EN 55024:1998 +A1 +A2
FCC Title 47 CFR, Part 15 Class B²⁾ / ICES-003, Issue 4
GB9254-1998, GB17625.1-2003

Supplementary Information:

The product herewith complies with the requirements of the EMC Directive 89/336/EEC and the Low Voltage Directive 73/23/EEC, and carries the CE-marking accordingly.

1) The product was tested in a typical configuration with Hewlett-Packard Personal Computer Systems.

2) This Device complies with Part 15 of the FCC Rules. Operation is subject to the following two Conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

3) For regulatory purposes, this product is assigned a Regulatory model number. This number should not be confused with the product name or the product number(s).

Boise, Idaho 83714, USA

September 1, 2006

For Regulatory Topics ONLY, contact:

Australia Contact: Product Regulations Manager, Hewlett-Packard Australia Ltd., 31-41 Joseph Street, Blackburn, Victoria 3130, Australia

European Contact: Your Local Hewlett-Packard Sales and Service Office or Hewlett-Packard GmbH, Department HQ-TRE / Standards Europe, Herrenberger Straße 140, Böblingen, D-71034, Germany, (FAX: +49-7031-14-3143)

USA Contact: Product Regulations Manager, Hewlett-Packard Company, PO Box 15, Mail Stop 160, Boise, Idaho 83707-0015, USA, (Phone: 208-396-6000)

Regulatory statements

Laser safety statement

The Center for Devices and Radiological Health (CDRH) of the U.S. Food and Drug Administration has implemented regulations for laser products manufactured since August 1, 1976. Compliance is mandatory for products marketed in the United States. The printer is certified as a "Class 1" laser product under the U.S. Department of Health and Human Services (DHHS) Radiation Performance Standard according to the Radiation Control for Health and Safety Act of 1968.

Since radiation emitted inside the printer is completely confined within protective housings and external covers, the laser beam cannot escape during any phase of normal user operation.



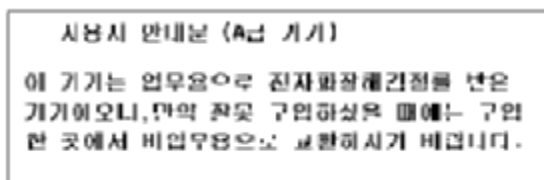
WARNING! Using controls, making adjustments, or performing procedures other than those specified in this user guide could result in exposure to hazardous radiation.

Canadian DOC regulations

Complies with Canadian EMC Class B requirements.

« Conforme à la classe B des normes canadiennes de compatibilité électromagnétiques (CEM). »

Korean EMI statement



Laser statement for Finland

LASERTURVALLISUUS

LUOKAN 1 LASERLAITE

KLASS 1 LASER APPARAT

HP LaserJet P2015, HP LaserJet P2015d, HP LaserJet P2015n, HP LaserJet P2015x, HP LaserJet P2015dn -laserkirjoitin on käyttäjän kannalta turvallinen luokan 1 laserlaite. Normaalisissa käytössä kirjoittimen suojakoteloitinta estää lasersäteiden pääsyn laitteen ulkopuolelle.

Laitteen turvallisuusluokka on määritetty standardin EN 60825-1 (1994) mukaisesti.

VAROITUS!

Laitteen käyttäminen muulla kuin käyttöohjeessa mainitulla tavalla saattaa altistaa käyttäjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

WARNING!

Om apparaten används på annat sätt än i bruksanvisning specificerats, kan användaren utsättas för osynlig laserstrålning, som överskrider gränsen för laserklass 1.

HUOLTO

HP LaserJet P2015, HP LaserJet P2015d, HP LaserJet P2015n, HP LaserJet P2015x, HP LaserJet P2015dn -kirjoittimen sisällä ei ole käyttäjän huollettavissa olevia kohteita. Laitteen saa avata ja huoltaa ainoastaan sen huoltamiseen koulutettu henkilö. Tällaiseksi huoltotoimenpiteeksi ei katsota väriainekasetin vaihtamista, paperiradan puhdistusta tai muita käyttäjän käsikirjassa lueteltuja, käyttäjän tehtäväksi tarkoitettuja ylläpitotoimia, jotka voidaan suorittaa ilman erikoistyökaluja.

VARO!

Mikäli kirjoittimen suojakotelo avataan, olet alttiina näkymättömälle lasersäteilylle laitteen ollessa toiminnassa. Älä katso säteeseen.

WARNING!

Om laserprinterns skyddshölje öppnas då apparaten är i funktion, utsättas användaren för osynlig laserstrålning. Betrakta ej strålen.

Tiedot laitteessa käytettävän laseriodin säteilyominaisuuksista:

Aallonpituus 785-800 nm

Teho 5 mW

Luokan 3B laser

E Warranty and licensing

Hewlett-Packard limited warranty statement

HP PRODUCT

HP LaserJet P2015 Series printers

DURATION OF LIMITED WARRANTY

One year from date of purchase

HP warrants to you, the end-user customer, that HP hardware and accessories will be free from defects in materials and workmanship after the date of purchase, for the period specified above. If HP receives notice of such defects during the warranty period, HP will, at its option, either repair or replace products which prove to be defective. Replacement products may be either new or equivalent in performance to new.

HP warrants to you that HP software will not fail to execute its programming instructions after the date of purchase, for the period specified above, due to defects in material and workmanship when properly installed and used. If HP receives notice of such defects during the warranty period, HP will replace software which does not execute its programming instructions due to such defects.

HP does not warrant that the operation of HP products will be uninterrupted or error free. If HP is unable, within a reasonable time, to repair or replace any product to a condition as warranted, you will be entitled to a refund of the purchase price upon prompt return of the product.

HP products may contain remanufactured parts equivalent to new in performance or may have been subject to incidental use.

Warranty does not apply to defects resulting from (a) improper or inadequate maintenance or calibration, (b) software, interfacing, parts or supplies not supplied by HP, (c) unauthorized modification or misuse, (d) operation outside of the published environmental specifications for the product, or (e) improper site preparation or maintenance.

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Index

Symbols/Numerics

10/100 networking and wireless
print servers 252

A

accessories, part numbers 252
accessory error secondary
messages 150
acoustics 264
alerts, setting up 29
automatic two-sided path door,
rear 5
automatic two-sided printing
media-size selector 5

B

back cover, removing 87
blank pages 153
block diagram 70
button, print-cartridge-door 4

C

card stock
guidelines for using 11
cartridge door, removing 134
cartridges
drum rotation check 173
part numbers 252
Cassette assembly, part
numbers 222
checks
drum rotation 173
engine 172
half-self-test 173
heating element 173
high-voltage power supply 174
circuit diagram 181
classes 188

cleaning
high-voltage connection
points 175
high-voltage contacts 174
media path 44
pickup roller (tray 1) 46
pickup roller (tray 2) 55
printer 43
clearing jams 160
cold reset 178
configuration
HP LaserJet P2015 printer 2
HP LaserJet P2015d printer 2
HP LaserJet P2015dn printer 3
HP LaserJet P2015n printer 3
HP LaserJet P2015x printer 3
Configuration page 25
Connections
Macintosh 23
Microsoft Windows 22
conserving toner 253
consumables
ordering 188
contacting HP 261
control panel
HP ToolboxFX settings 33
removing 95
status-light patterns 140
covers
back, removing 87
cartridge door, removing 134
left-side, removing 86
part numbers 194
right-side, removing 86
top, removing 90
crooked pages 152
customer support 188

D

dc controller 74

default settings, restoring 177, 178
Demo page 25
Device Settings tab,
HP ToolboxFX 31
DIMM
adding 254
removing 256
testing 256
DIMM errors 150
Documentation tab
(HP ToolboxFX) 30
door
print cartridge 4
straight-through output 4
drum
rotation functional check 173
duplex solenoid, removing 106
duplex-drive assembly, part
numbers 218
duplex-drive gears, removing 104
duplex-drive PCA, removing 101
duplexer tray, removing 89
duplexer, part numbers 224

E

e-mail alerts, setting up 29
EconoMode 32, 253
ECU
part numbers 210
removing 119
electrostatic discharge (ESD) 84
embedded Web server
Configuration page 36
device status 36
event log 36
Information tab 36
Networking tab 36
order supplies 37
print info pages 36
product support 37

- Settings tab 36
- supplies status 36
- using 35
- engine control system 70, 74
- engine test 172
- envelopes
 - guidelines for using 9
- environmental
 - specifications 18, 264
- ESD (electrostatic discharge) 84
- EWS. *See* embedded Web server
- extended warranty 260

F

- face-down gears, removing 104
- fan
 - removing 103
- fatal error secondary
 - messages 147
- FCC compliance 270
- feeding problems, solving 152
- formatter
 - removing 97
- fuser
 - errors 149
 - part numbers 193, 229, 246
 - removing 103, 107
- fuser assembly, part numbers 214

G

- garbled text 153
- gear assembly, part numbers 220
- graphics
 - missing 153
 - poor quality 154

H

- half-self-test functional check 173
- hardware service 260
- heating element check 173
- heavy media, guidelines for
 - using 11
- Help tab, HP ToolboxFX 30
- high-voltage PCA 74
- high-voltage power supply,
 - checking 174
- HP Customer Care Online 188
- HP internal network port 5
- HP media 8
- HP Technical Training 188

HP ToolboxFX

- Device Settings tab 31
- Documentation tab 30
- Help tab 30
- Network Settings tab 34
- Status tab 29

I

- Identify product parts 4
- image problem solving 155
- image quality 32
- image quality, troubleshooting
 - repetitive image defects 179
- image-formation system
 - block diagram 70
 - operations 79
 - testing 173
- information pages
 - Configuration page 25
 - Demo page 25
 - Network Configuration page 25
 - Supplies Status page 25
- Information tab (embedded Web
 - server) 36
- input tray
 - loading media 14
 - tray 1 4
 - tray 2 4
- installing printer 18
- interlock assembly, removing 118
- internal components 71, 198

J

- jams
 - detection operations 77
- jams, clearing 160

L

- labels
 - guidelines for using 9
- laser/scanner
 - errors 148
 - operations 70, 76
 - removing 98
- left-side cover, removing 86
- letterhead
 - guidelines for using 11
- license, software 277
- life expectancy, print cartridge 253
- light patterns 140

lights

- accessory error secondary
 - messages 150
- fatal error secondary
 - messages 147
- loading media
 - optional tray 3 14
 - tray 1 13
 - tray 2 14

M

- main drive assembly, part
 - numbers 212
- main gear assembly,
 - removing 130
- main motor, removing 126
- manual-feed printing 15
- media
 - card stock 11
 - clearing jams 160
 - envelopes 9
 - feeding operations 77
 - guidelines for use 8
 - heavy 11
 - HP ToolboxFX settings 32
 - labels 9
 - letterhead 11
 - loading 13
 - optimizing print quality for
 - media types 7
 - paper 9
 - preprinted forms 11
 - printing manually 15
 - recommended 8
 - transparencies 9
 - types that may damage the
 - printer 8
 - types to avoid 8
- media path, cleaning 44
- memory
 - cold reset 178
 - errors 150
 - installing 254
 - NVRAM initialization 177
 - removing 256
 - testing 256
- memory-tag-reader assembly,
 - removing 99

- missing
 - graphics 153
 - text 153
- model number 4
- motor, removing 126

N

- Network Configuration page 25
- network port, HP internal 5
- Network Settings tab,
 - HP ToolboxFX 34
- Networking tab (embedded Web server) 36
- NVRAM initialization 177

O

- on/off switch 4
- online support 188
- operating environment
 - specifications 18
- operations
 - block diagram 70
 - engine control system 74
 - image-formation system 79
 - laser/scanner system 76
 - pickup/feed/delivery system 77
 - sequence of 73
- optimizing print quality for media types 7
- ordering
 - parts 188
 - supplies 188
- output bin
 - location 4
 - removing jams in 165
- output path, straight-through 14
- output quality, HP ToolboxFX settings 32
- overview, printer 4

P

- pages, skewed 152
- paper
 - feeding operations 77
 - HP ToolboxFX settings 32
 - recommended 8
 - using 9
- paper input trays
 - feeding problems, solving 152
- part numbers
 - accessories 252

- Cassette assembly 222
- covers 194
- duplex-drive assembly 218
- duplexer 224
- ECU 210
- fuser assembly 214
- internal components 198
- main drive assembly 212
- supplies 252
- top output bin gear assembly 220
- parts
 - ordering 188
 - removing and replacing 84, 85
- PCL 5e 33
- PCL 6 33
- phone numbers, ordering
 - supplies 188
- photosensitive drum
 - rotation functional checks 173
- physical specifications 18
- pickup roller (tray 1) 46, 51
- pickup roller (tray 2) 55, 62
- pickup/feed/delivery system 70, 77
- port, USB location 5
- postscript level 3 emulation driver,
 - HP ToolboxFX settings 34
- power
 - high-voltage PCA 74
 - sequence of operations 73
 - testing high-voltage 174
 - troubleshooting 138
- power receptacle 4
- power switch 4
- preprinted forms
 - guidelines for using 11
- print cartridge
 - door 4
 - HP policy on 253
 - life expectancy 253
 - redistributing toner 42
 - status, viewing with
 - HP ToolboxFX 29
 - storing 253
 - using HP cartridges 253
 - warranty 278
- print cartridges
 - part numbers 252
- print quality
 - creases 158

- curl 158
- dropouts 155
- gray background 156
- HP ToolboxFX settings 32
- light or faded print 155
- loose toner 157
- misformed characters 157
- optimizing for media types 7
- page skew 158
- toner scatter outline 159
- toner smear 156
- toner specks 155
- vertical lines 156
- vertical repetitive defects 157
- wave 158
- wrinkles 158
- print servers 252
- print-cartridge door, removing 134
- print-cartridge-door button 4
- printer
 - cleaning 43
 - overview 4
 - repacking 261
 - specifications 263
- printer information pages
 - Configuration page 25
 - Demo page 25
 - Network Configuration page 25
 - Supplies Status page 25
- printer, specifications 268
- printing
 - Configuration page 25
 - Demo page 25
 - manual feed 15
 - Network Configuration page 25
 - Supplies Status page 25
- product
 - features 2

Q

- quality
 - HP ToolboxFX settings 32
 - print 7
- quality, troubleshooting
 - repetitive image defects 179

R

- recycling
 - print cartridges 40
- redistributing toner 42

- registration assembly,
 - removing 129
- regulatory statements
 - Canadian DOC regulations 272
 - declaration of conformity statements 271
 - FCC compliance 270
 - Korean EMI statement 272
 - laser statement for Finland 273
- removing a jammed page 160
- removing parts 84, 85
- repacking the printer 261
- repair
 - contacting HP 261
 - hardware service 260
- repetitive defects,
 - troubleshooting 179
- replacing
 - parts 84, 85
 - pickup roller (tray 1) 51
 - pickup roller (tray 2) 62
- reset, cold 178
- restoring default settings 177, 178
- right-side cover, removing 86
- rollers
 - diagrams 185
 - locating 71
 - removing transfer 128
- rotation check, drum 173

S

- saving toner. See *EconoMode*
- screws, replacing 84
- sensors, media detection 77, 184
- separation pad
 - diagrams 185
- sequence of operations 73
- serial number 5
- service and support
 - contacting HP 261
 - hardware 260
 - HP ToolboxFX settings 33
- setting up printer 18
- settings
 - HP ToolboxFX 31
- Settings tab (embedded Web server) 36
- settings, restoring default 177, 178
- skewed pages 152

- software
 - HP ToolboxFX 28
 - software license agreement 277
- solenoids, removing
 - diagrams 183
 - duplex 106
 - tray 2 pickup 130
- solving
 - blank pages 153
 - creases 158
 - curl 158
 - dropouts 155
 - feeding problems 152
 - garbled text 153
 - gray background 156
 - incomplete text 153
 - light or faded print 155
 - loose toner 157
 - misformed characters 157
 - missing graphics or text 153
 - page skew 158
 - poor graphics quality 154
 - printed page differs from onscreen page 153
 - skewed pages 152
 - toner scatter outline 159
 - toner smear 156
 - toner specks 155
 - vertical lines 156
 - vertical repetitive defects 157
 - wave 158
 - wrinkles 158
- space requirements 18
- specifications
 - acoustics 264
 - capacities and ratings 268
 - electrical 265
 - environmental 18, 264
 - media 7
 - memory 268
 - physical 267
 - port availability 268
- static precautions 84
- status
 - alerts, HP ToolboxFX 29
 - viewing with HP ToolboxFX 29

- status lights
 - accessory error secondary messages 150
 - fatal error secondary messages 147
- Status tab, HP ToolboxFX 29
- status-light patterns 140
- straight-through output door 4
- straight-through output path 14
- supplies
 - ordering 188
 - status, viewing with HP ToolboxFX 29
- Supplies Status page 25
- support 188
- switch, interlock 184
- switch, power 4

T

- table, repetitive defect 179
- technical support 188
- Technical Training, HP 188
- telephone numbers, ordering supplies 188
- tests
 - drum rotation 173
 - engine 172
 - half-self functional check 173
 - heating element 173
 - high-voltage power supply 174
- text
 - garbled 153
 - missing 153
- timing chart 180
- toner
 - conserving 253
 - loose toner 157
 - low 155
 - print cartridge door 4
 - redistributing 42
 - scatter outline 159
 - smear 156
 - specks 155
 - storing print cartridges 253
- ToolboxFX. See *HP ToolboxFX*
- tools, required 84
- top cover, removing 90
- top output bin gear assembly, part numbers 220
- transfer roller, removing 128

- transparencies
 - guidelines for using 9
- tray 1
 - loading 13
 - location 4
- tray 2
 - loading 14
 - location 4
- tray 2 pickup solenoid,
 - removing 130
- tray 3 14
- trays
 - duplexer, removing 89
 - feeding operations 77
- troubleshooting
 - accessory error secondary
 - messages 150
 - basic steps 138
 - drum rotation check 173
 - engine test 172
 - fatal error secondary
 - messages 147
 - half self-test 173
 - heating element 173
 - image formation 173
 - power 138
- types, media
 - HP ToolboxFX settings 32

U

- USB port
 - location 5

W

- warranty
 - extended 260
 - license 277
 - print cartridge 278
 - product 276
- Web server, embedded. *See*
embedded Web server
- Web sites, ordering parts 188
- wire harnesses, replacing 84

