

7

Parts Catalog

Organization Of This Chapter

This chapter contains drawings of the electromechanical assemblies comprising the printer. Following each illustration is a list of the illustrated parts and their part numbers. Items marked “Ref” (reference) are not spared, are part of another assembly, or are shown elsewhere.

NOTE: Common fasteners are included in Hardware Kit 252403-001.

Illustrated Parts Breakdown

Figure 18. Cover Removal Diagram.....	page 157
Figure 19. Cables.....	page 159
Figure 20. Controller Board, Power Supply Board, and Ethernet Interface Assemblies	page 161
Figure 21. Control Panel, Ribbon Drive Spindles, and Gears.....	page 163
Figure 22. Detail View of Gear Box with Drive Motor.....	page 166
Figure 23. Detail View of Ribbon Belt Bracket and Pulleys.....	page 168
Figure 24. Printhead, Platen, and Ribbon Roller Assemblies	page 170
Figure 25. Antistatic Brush and Ribbon Adjust Plate	page 173
Figure 26. Paper Guide and Media Damper Holder.....	page 175
Figure 27. Belts and Gears Diagram.....	page 177

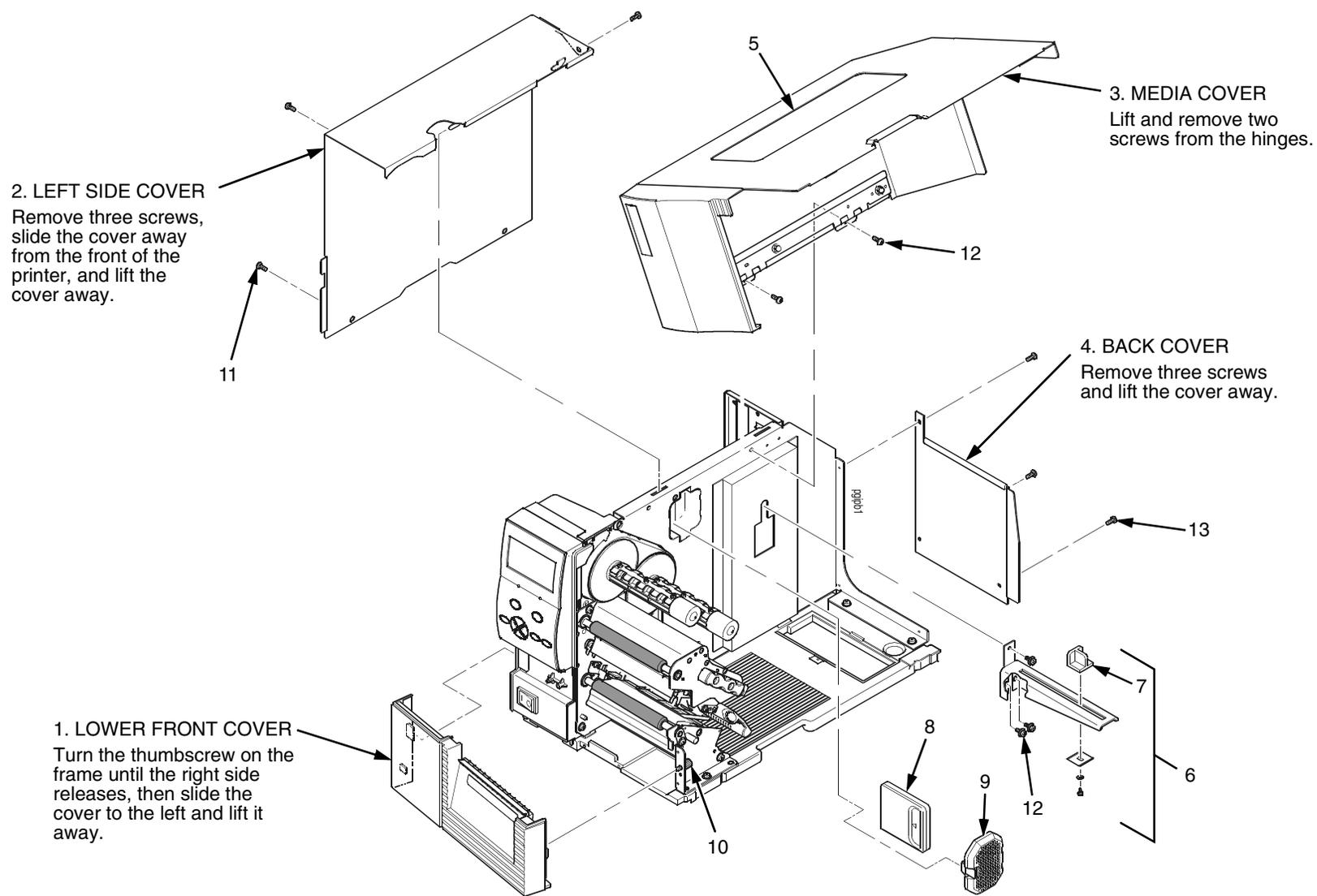


Figure 18. This illustration shows the media hanger, EMC, and how to remove the outer covers.



(Figure 18)

Item No.	Part No.	Description	Notes
1	252356-001	Lower Front Cover (Plastic)	
2	252355-001	Left Side Cover Assembly	
3	252357-001	Media Cover with Window	
4	Ref	Back Cover	
5	252699-001	Media Cover Window Kit	
6	253634-001	Media Hanger	Includes item 7 and its mounting hardware. Does not include the media hanger mounting hardware.
7	Ref	Media Hanger Guide	Included in item 6.
8	252254-001	Expanded Memory Cartridge (EMC)	
9	Ref	EMC Slot Cover	
10	P21947000	Thumbscrew (Stopper Screw)	Part of Hardware Kit 252403-001.
11	Ref	Screw (3), Pan Head M4 x 9.5mm	Part of Hardware Kit 252403-001.
12	Ref	Screw (5), Pan Head with Washers, M4 x 10mm	Part of Hardware Kit 252403-001.
13	Ref	Screw (3), Pan Head with Washers, M3 x 6mm	Part of Hardware Kit 252403-001.

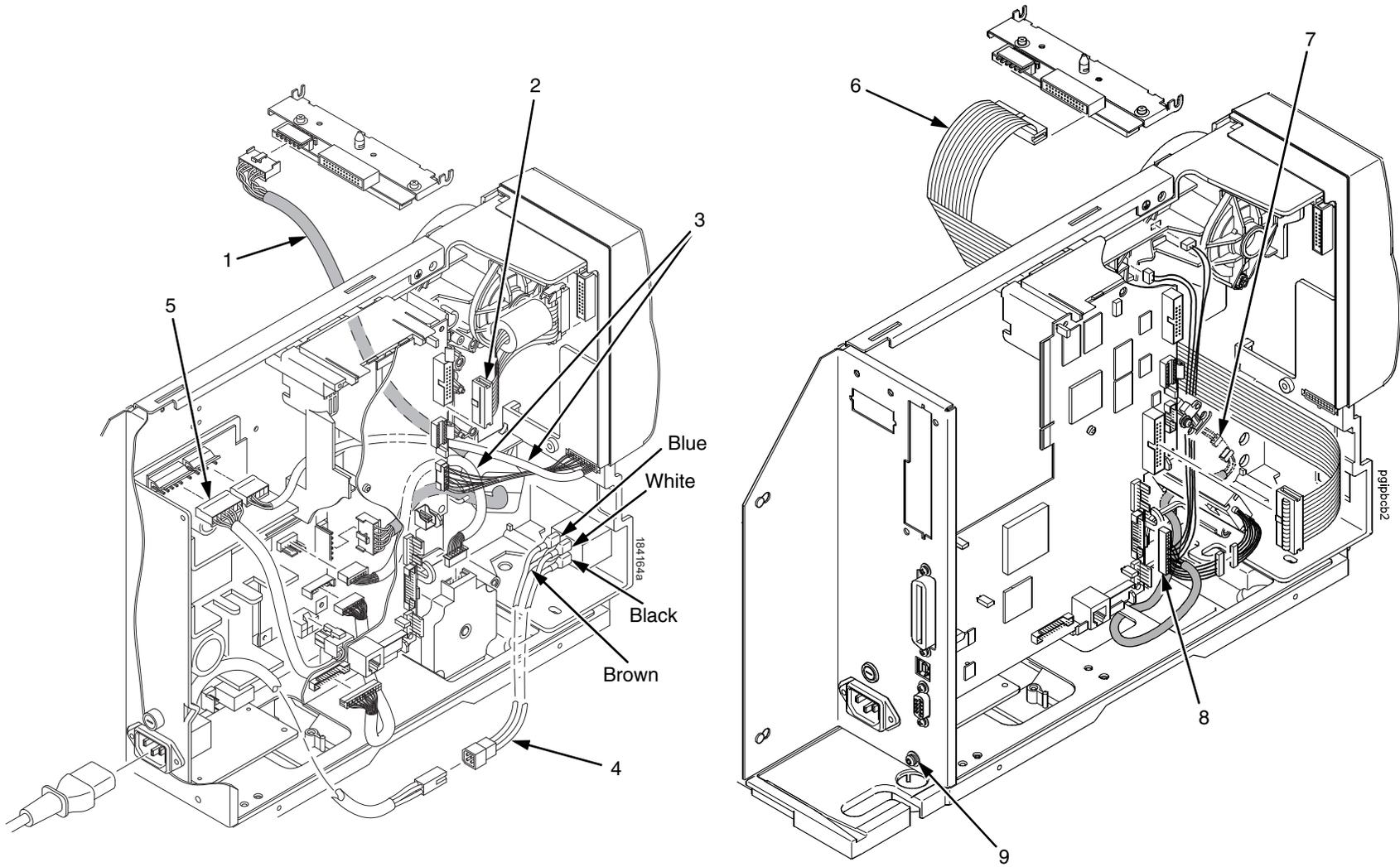


Figure 19. This illustration shows the connections and routing of the cable assemblies.



(Figure 19)

Item No.	Part No.	Description	Notes
1	252359-001	Cable Assembly, Printhead Power	
2	252367-001	Cable Assembly, Control Panel	
3	252362-001	Cable Assembly, Options	
4	254773-001	Cable Assembly, AC Switch, LF	
5	252366-001	Cable Assembly, DC Power	
6	252360-001	Cable Assembly, Printhead Signal	
7	252361-001	Cable Assembly, Printhead Open	Cable assembly integral to sensor.
8	252365-001	Cable Assembly, Sensor	
9	Ref	Pan Head Screw SW + WL with Captive Washers, M4 x 10mm	Part of Hardware Kit 252403-001.

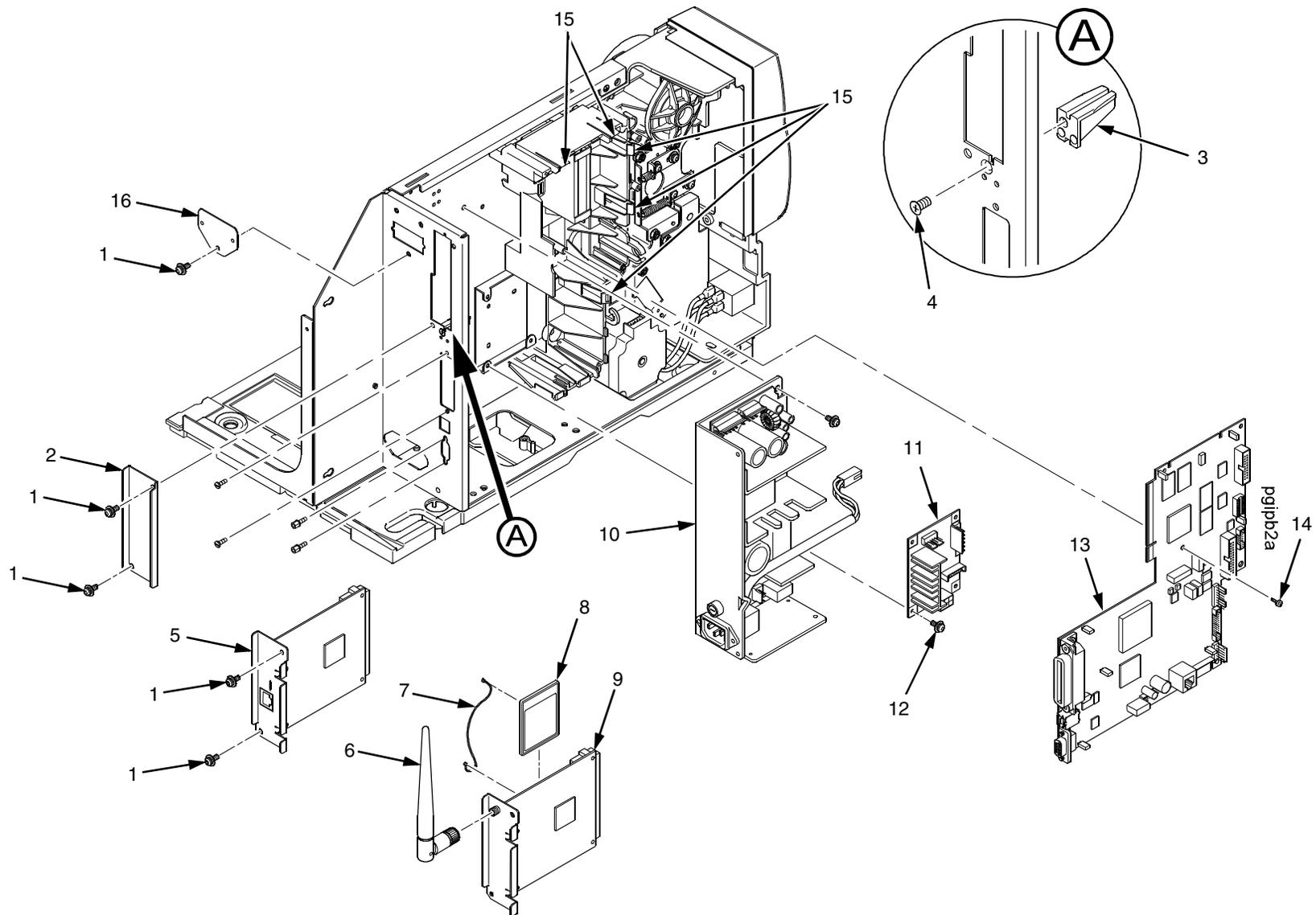


Figure 20. This illustration is an exploded view of the controller board, power supply board, and the ethernet interface assemblies.



(Figure 20)

Item No.	Part No.	Description	Notes
1	Ref	Pan Head Screw SW + WL with Captive Washers, M3 x 6mm	Part of Hardware Kit 252403-001.
2	Ref	Cover Plate (Rectangular)	
3	Ref	PCBA Guide Rail	
4	Ref	Screw, Counter Sunk P-Tight	Part of Hardware Kit 252403-001.
5	252503-901	10/100Base-T Ethernet Interface Kit	Ethernet option.
6	205298-001	Antenna, Dipole, 2.4GHZ, 3dBi, RP-SMA	
7	Ref	Radio cable	Part of item 9.
8	205274-001	Radio, 802.11B/G, Symbol, CF, Ext RF Conn	
9	252239-001	Wireless (Ethernet) Interface Subassembly	
10	253362-001	Power Supply PCBA, Kit	Includes 254773-001 (item 4), Figure 19, page 159, Cable Assembly, AC Switch, LF
11	252364-001	Motor Driver PCBA	
12	Ref	Screw (4)	Part of Hardware Kit 252403-001.
13	251274-001	Viper Controller PCBA, V1	
14	MH2300822	Screw, Bind P-Tight	Part of Hardware Kit 252403-001.
15	Ref	Plastic Tab (5)	Two tabs hold the top of the board; three tabs hold the right side of the board.
16	Ref	Cover Plate (Trapezoidal)	

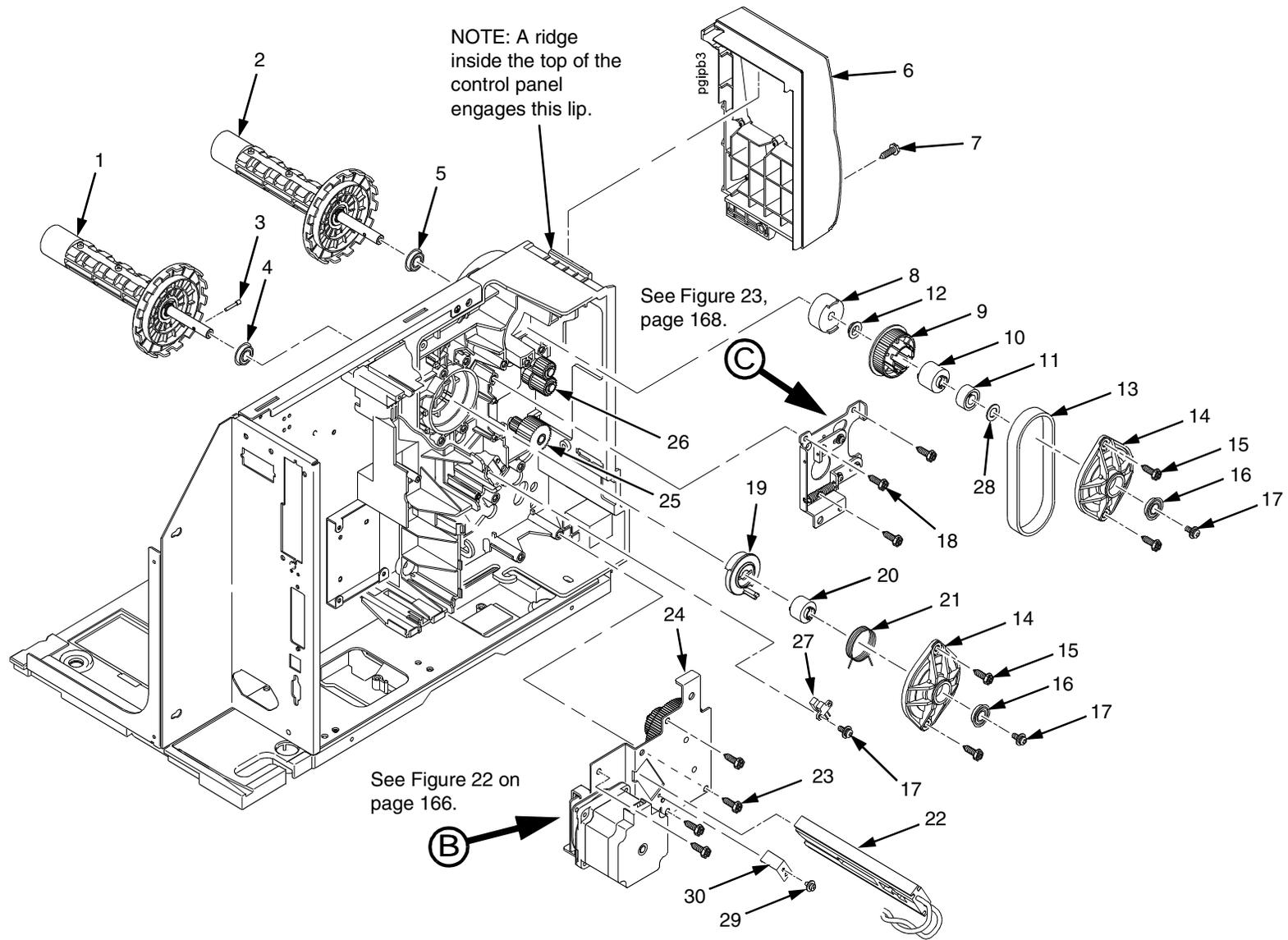


Figure 21. This illustration is an exploded view of the control panel, belts, gears, drive motor, ribbon spindles, and sensor assembly.



(Figure 21)

Item No.	Part No.	Description	Notes
1	Ref	Ribbon Supply Spindle	
2	Ref	Ribbon Take-Up Spindle	
3	252393-001	Torque Limiter Spring	
4	P15601000	Bearing, Oiles	Part of Hardware Kit 252403-001.
5	P15601000	Bearing, Oiles	Part of Hardware Kit 252403-001.
6	252402-001	Control Panel Assembly	
7	MH2300822	Screw, Bind Head P-Tight	Part of Hardware Kit 252403-001.
8	252387-001	One Way Limiter	
9	252388-001	Ribbon Pulley	
10	252907-001	Torque Limiter (Long)	
11	252390-001	One Way Clutch	
12	Ref	Spacer, Oiles Bearing	Part of Hardware Kit 252403-001.
13	252400-001	Timing Belt (145 Teeth)	Ribbon Take-Up Drive Belt
14	252394-001	Ribbon Flange	
15	Ref	Screw (2)	
16	P15601000	Bearing, Oiles	Part of Hardware Kit 252403-001.
17	Ref	Screw	Part of Hardware Kit 252403-001.
18	MH2300822	Screw (3), Bind Head P-Tight	Part of Hardware Kit 252403-001.
19	Ref	Back Feed Stopper	
20	252391-001	Torque Limiter (Short)	

Item No.	Part No.	Description	Notes
21	252392-001	Back Feed Spring	
22	252368-001	Media Sensor Assembly	
23	Ref	Screw (5)	Part of Hardware Kit 252403-001.
24	252416-001	Gear Box Assembly, with Motor	See also Figure 22 on page 166.
25	252374-001	Gear Pulley, 40/18	
26	252375-001	Gear Pulley	.
27	252401-001	Photo Interrupter	
28	Ref	Flat Washer	
29	Ref	Screw, Pan Head with Captive Washers, M3 x 6mm	Part of Hardware Kit 252403-001.
30	Ref	Sensor Stop Bracket	
30	253921-001	Clip, Gap Sensor	Allows gap sensor position to be further inboard.

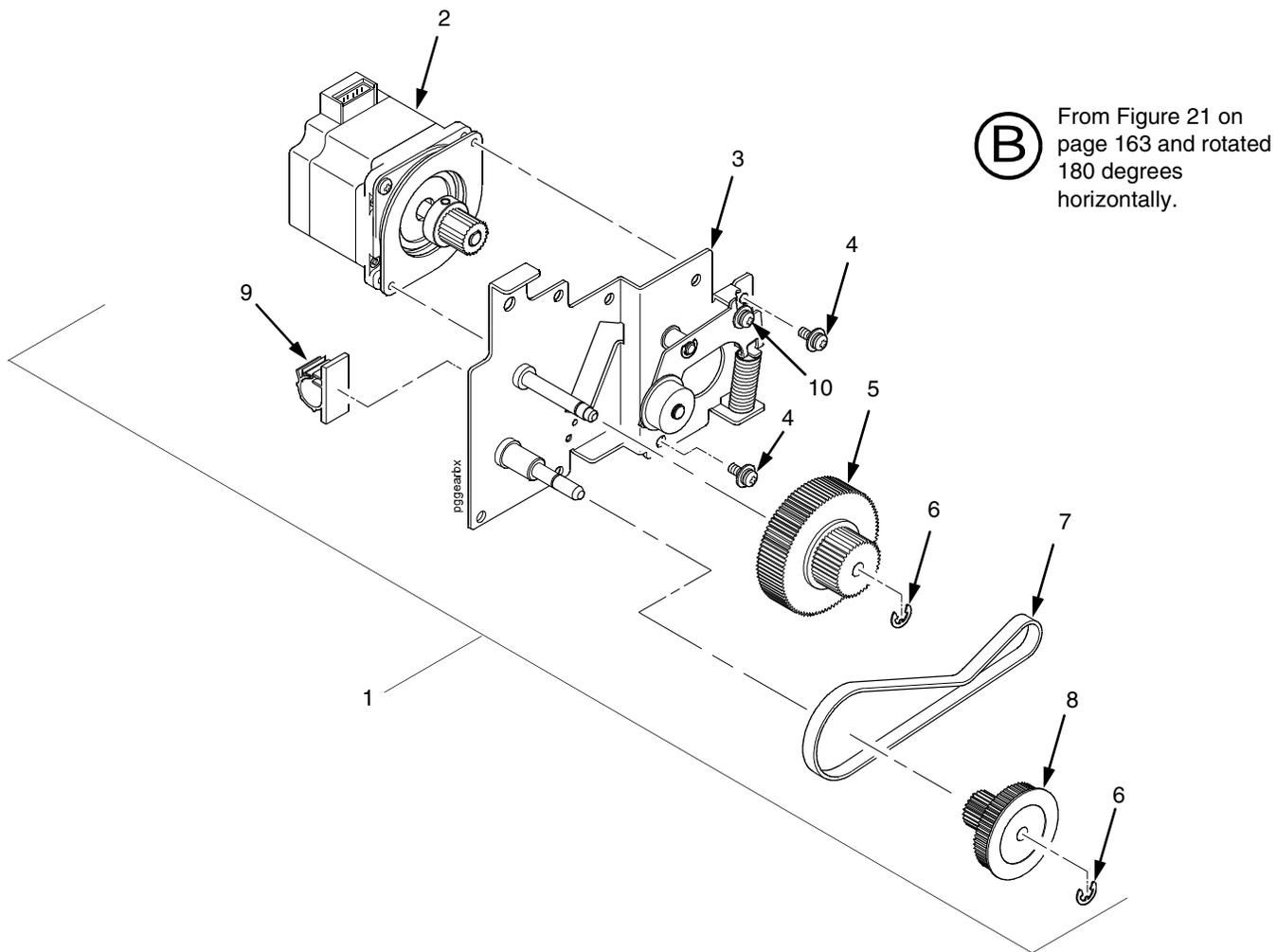
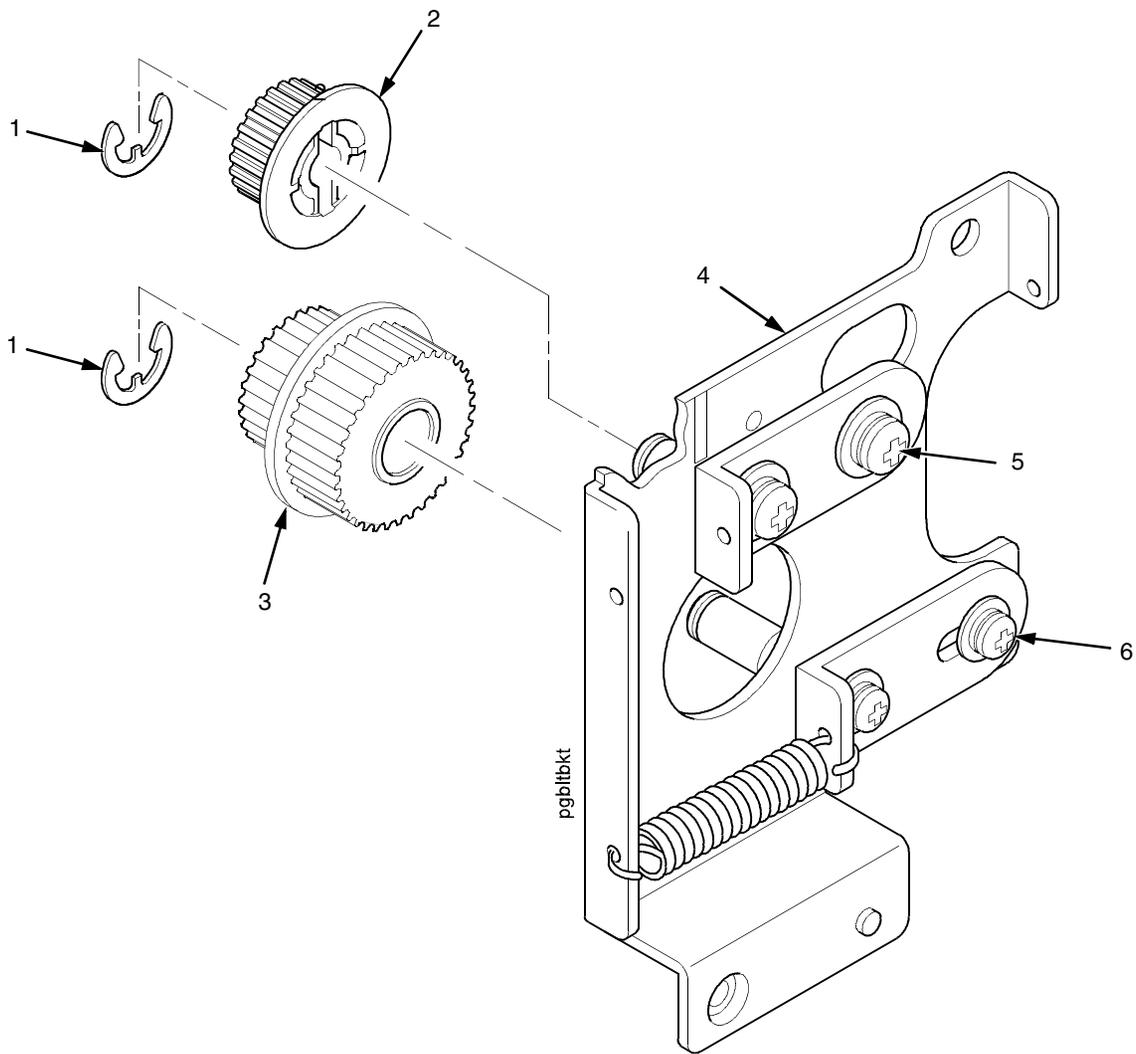


Figure 22. This illustration is an exploded view of the gearbox and drive motor assembly.

(Figure 22)

Item No.	Part No.	Description	Notes
1	252416-001	Gear Box Assembly, with Motor	
2	Ref	Drive Motor	Part of item 1.
3	Ref	Gear Box Plate	Part of item 1.
4	Ref	Screw	Part of item 1.
5	Ref	Gear B	Part of item 1.
6	Ref	Circlip	Part of item 1.
7	252400-001	Timing Belt (145 Teeth)	
8	Ref	Gear A	Part of item 1.
9	Ref	Cable Guide	Part of item 1.
10	Ref	Tension Adjustment Screw	Part of item 1.



From Figure 21 on page 163.

Figure 23. This illustration is an exploded view of the timing belt bracket and pulleys.

(Figure 23)

Item No.	Part No.	Description	Notes
1	Ref	Circlip, E-Snap Ring	Part of Hardware Kit 252403-001.
2	252398-001	Pulley, S2M24	
3	252909-001	Pulley, Double,28/28	
4	252908-001	Ribbon Belt Bracket	
5	Ref	Top Drive Belt Adjustment Screw	Part of Hardware Kit 252403-001. See also page 153.
6	Ref	Bottom Drive Belt Adjustment Screw	Part of Hardware Kit 252403-001. See also page 153.

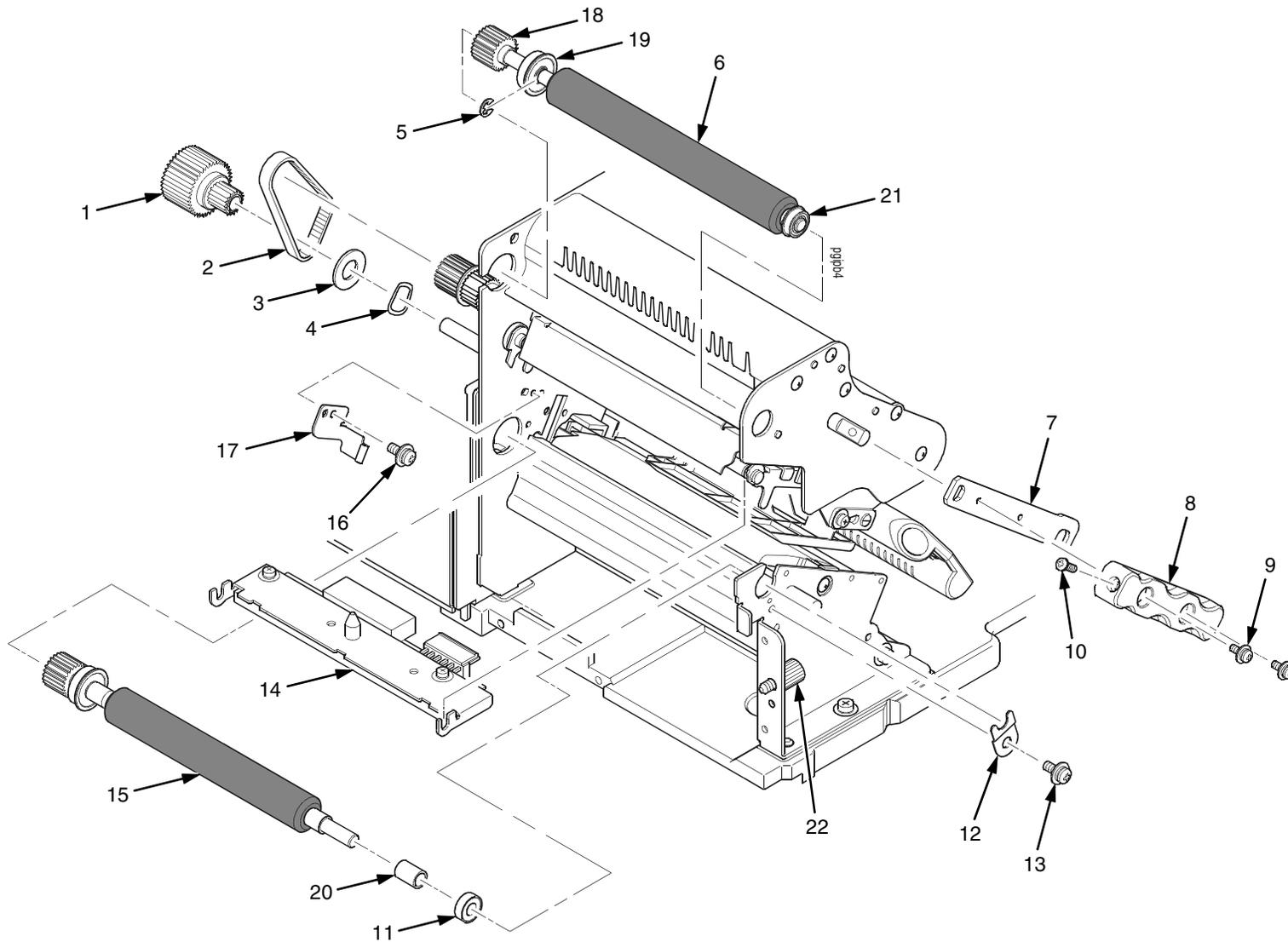


Figure 24. This illustration is an exploded view of the printhead, platen, and ribbon roller assemblies.

(Figure 24)

Item No.	Part No.	Description	Notes
1	Ref	Gear	
2	252376-001	Timing Belt (72 Teeth)	
3	P22796000	Flat Washer, 6.1 x 18 x 1.6	Part of Hardware Kit 252403-001.
4	Ref	Wavy Washer	
5	N00080022	Circlip, E-Snap Ring	Included in item 6. Part of Hardware Kit 252403-001.
6	252384-001	Ribbon Roller Assembly	Includes items 5, 18, 19, and 21.
7	252417-001	Deck Lock Lever	
8	252382-001	Deck Lock Cover	
9	Ref	Screw (2), Pan Head SW + WL with Captive Washers, M3 x 6mm	Part of Hardware Kit 252403-001.
10	Ref	Screw	
11	252385-001	Bearing, Ball	Part of Hardware Kit 252403-001.
12	P23129000	Retainer Clip, Platen Bearing Holder	Part of Hardware Kit 252403-001.
13	Ref	Screw, Pan Head Screw SW + WL with Captive Washers, M4 x 10mm	Part of Hardware Kit 252403-001.
14	252379-001 252380-001	Printhead Assembly, 203 DPI Printhead Assembly, 305 DPI	
15	252369-001	Platen Assembly	Includes item 20. Does not include item 11.
16	Ref	Screw, Pan Head SW + WL with Captive Washers, M3 x 6mm	Part of Hardware Kit 252403-001.
17	Ref	Paper Side Guide, Front	
18	Ref	Gear	Included in item 6.
19	Ref	Bearing, Flanged	Included in item 6.



Item No.	Part No.	Description	Notes
20	Ref	Bronze Bushing	Included in item 15.
21	Ref	Bearing, Flanged	Included in item 6.
22	PE2750450	Thumbscrew, Front Cover, Stopper Screw	Part of Hardware Kit 252403-001.

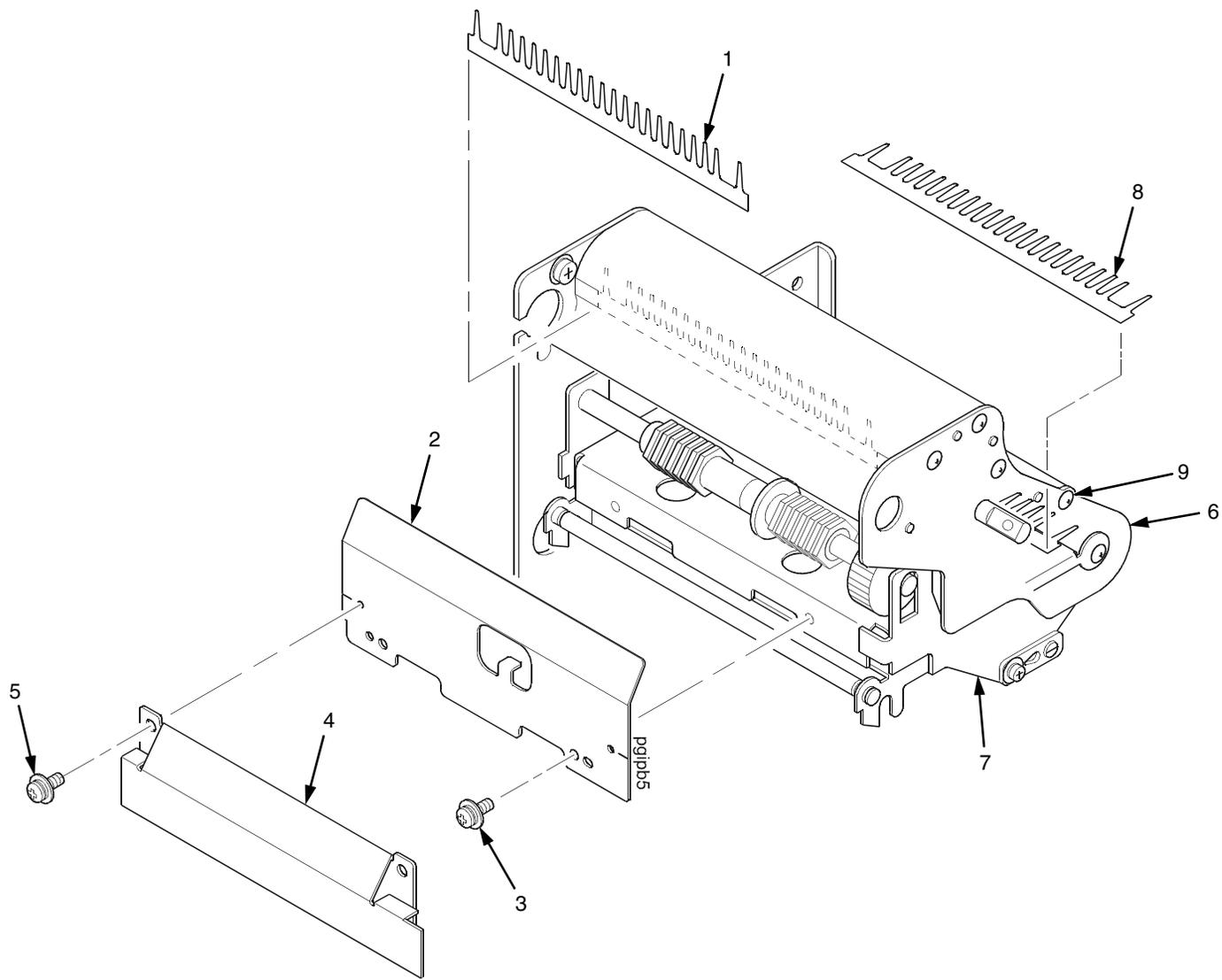


Figure 25. This illustration is an exploded view of the anti-static brush and ribbon adjust plate.

**(Figure 25)**

Item No.	Part No.	Description	Notes
1	252383-001	Anti-Static Brush	Front
2	Ref	Ribbon Reference Plate	Fixed
3	Ref	Screw (2), Pan Head with Captive Washers, M3 x 6mm	Part of Hardware Kit 252403-001.
4	252381-001	Ribbon Guide	Adjustable
5	Ref	Screw (2), Pan Head with Captive Washers, M3 x 6mm	Part of Hardware Kit 252403-001.
6	Ref	Upper Support	
7	Ref	Pivoting Deck	
8	252383-001	Anti-Static Brush	Back
9	MA7400822	Screw (4), Truss Head, M4 x 7.4mm	Part of Hardware Kit 252403-001.

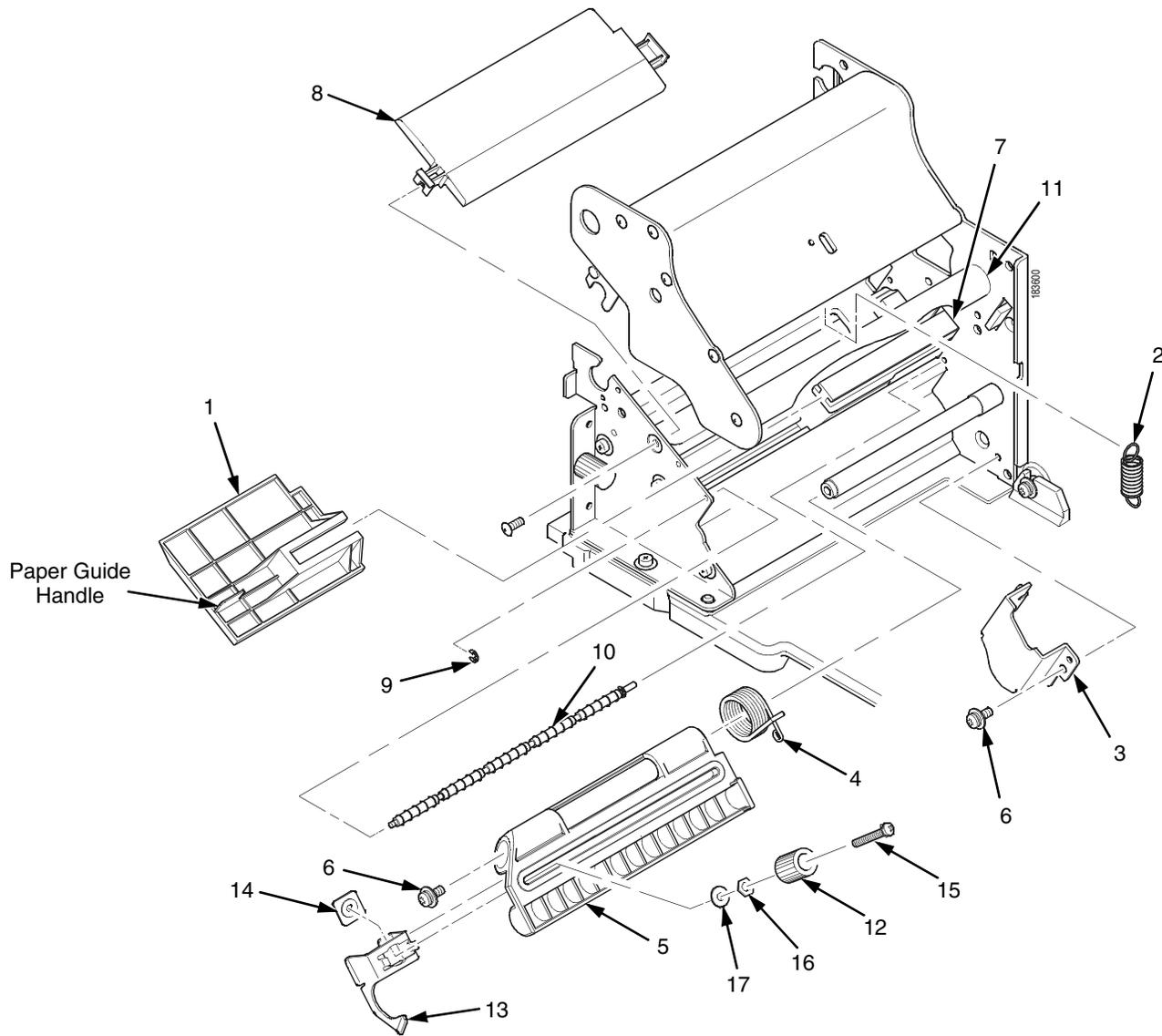


Figure 26. This illustration is an exploded view of the paper guide and media damper holder.



(Figure 26)

Item No.	Part No.	Description	Notes
1	252513-001	Paper Guide	The paper guide fits tightly on the media sensor assembly, requiring a strong, steady pull to remove it. To install the paper guide, see "Paper Guide" on page 126.
2	252378-001	Release Spring	
3	252373-001	Paper Side Guide, Back	
4	252371-001	Damper Spring	
5	252372-001	Media Damper Holder	
6	Ref	Screw, Pan Head SW + WL with Captive Washers, M3 x 6mm	Part of Hardware Kit 252403-001.
7	252368-001	Media Sensor Assembly	
8	P25174	Media Guard, Standard	RFID Media Guard shown on page 245.
9	Ref	Circlip, E-Snap Ring	Part of Hardware Kit 252403-001.
10	253635-001	Non-stick Roller	
11	Ref	Ribbon Roller, Back	
12	PE2750450	Media Width Guide Locking Knob, Guide Collar	Part of Hardware Kit 252403-001.
13	P11118020	Media Width Guide, Label Guide Bracket	Part of Hardware Kit 252403-001.
14	PA1A60010	Nut Plate	Part of Hardware Kit 252403-001.
15	Ref	Screw, Pan Head with Captive Lock Washer, M3 x 16mm	Part of Hardware Kit 252403-001.
16	MT1300522	Hexagon Nut	Part of Hardware Kit 252403-001.
17	Ref	Washer, Plain 3.5 ID x 7.82 mm OD	Part of Hardware Kit 252403-001.

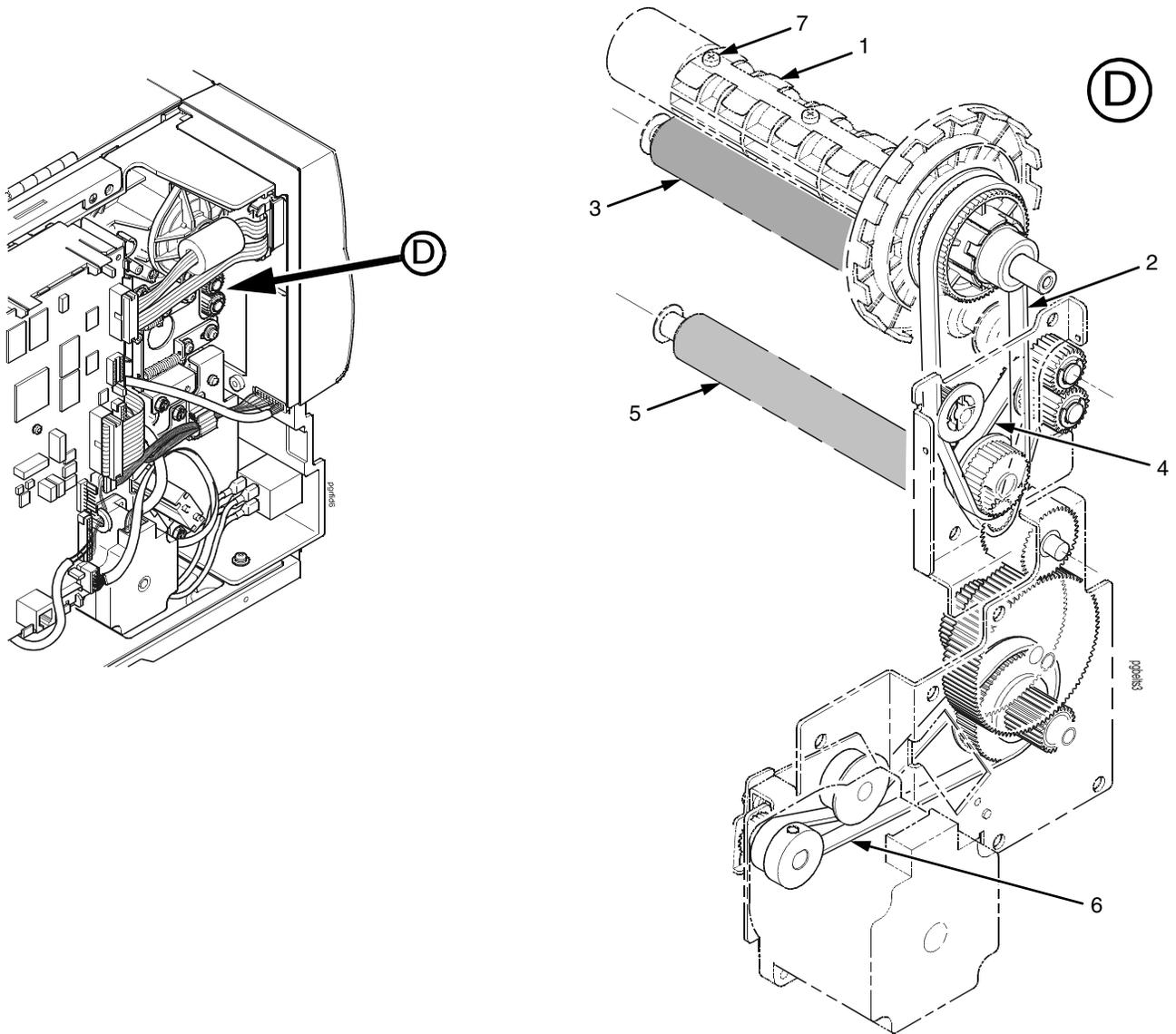


Figure 27. This illustration shows the routing of the timing belts on the gears.



(Figure 27)

Item No.	Part No.	Description	Notes
1	Ref	Ribbon Take-Up Spindle	
2	252400-001	Timing Belt (145 Teeth)	Ribbon Take-Up Drive Belt
3	252384-001	Ribbon Roller Assembly	
4	252375-001	Timing Belt (72 Teeth)	
5	252369-001	Platen Assembly	
6	252400-001	Timing Belt (145 Teeth)	
7	MH030522	Screw, Pan Head P-Tight	Part of Hardware Kit 252403-001.

Hardware Kit

Hardware Kit 252403-001 contains an assortment of fasteners used in the printer. The contents of the kit are listed below.

Part No. (RoHS Compliant)	Description	Qty
P23129000	Bearing Holder	1
MH2300822	Bind P-Tight Screw	10
MA2401022	Bind Screw, M3 x 6mm	10
	Counter Sunk P-Tight Screw	10
ND0020030	E-Snap Ring	10
ND0030030	E-Snap Ring	10
ND0040030	E-Snap Ring	10
ND0050030	E-Snap Ring	10
ND0080022	E-Snap Ring	10
M16226000	Flange Hex Tap Screw	10
MH1401022	Flat Head P-Tight Screw	10
PE2750450	Guide Collar (Stacker)	1
MJ1400622	Hex Socket Head Cap Screw, Set Screw M4 x 6mm	10
MT1300522	Hexagon Nut	10
P11118020	Label Guide BR	1
PE6A20920	Micro Driver	5
PA1A60010	Nut Plate	5



Part No. (RoHS Compliant)	Description	Qty
P11455000	Oiles Bearing	4
P11456000	Oiles Bearing	4
P15203000	Oiles Bearing	4
MH0300522	Pan Head P-Tight Screw	10
	Pan Head Screw, M2 x 5mm	10
	Pan Head Screw, M3 x 4mm	10
	Pan Head Screw SW + WL with Captive Washer, M3 x 6mm	10
	Pan Head Screw SW + WL with Captive Washer, M4 x 10mm	20
	Pan Head Screw SW + WS with Captive Washer, M4 x 8mm	10
	Pan Head Screw TW Screw, Phillips Head with Captive Washer, M3 x 16mm	10
	Pan Head Screw, M4 x 9.5mm	10
P29457000	Spring Arm L	1
P21947000	Stopper Screw (Thumbscrew)	1
MA7400822	Truss Head Screw, Phillips Head, M4 x 7.4mm	10
PA0730320	Washer, 4.2 ID x 14mm OD	10
P22796000	Washers, 6.1 ID x 18mm OD, 1.6 Thickness	10
NB2040022	Washer, Lock, Toothed, Star	10
	Washer, Plain 3.5 ID x 7.82mm OD	10

A

Interfaces

Contents

Overview	page 182
Auto Switching	page 182
Centronics Parallel Interface	page 183
IEEE 1284 Parallel Interface	page 185
RS-232 Serial Interface	page 189
Universal Serial Bus (USB)	page 190
Ethernet Interface.....	page 190