



# Media Rewind Upgrade

## Installation Instructions

### Prepare for Installation

This kit includes the parts and documentation necessary to install the media rewind option kit into the 105SL™ printers. Read these instructions thoroughly before attempting to install this kit.



**Caution** • A qualified service technician must perform this installation.

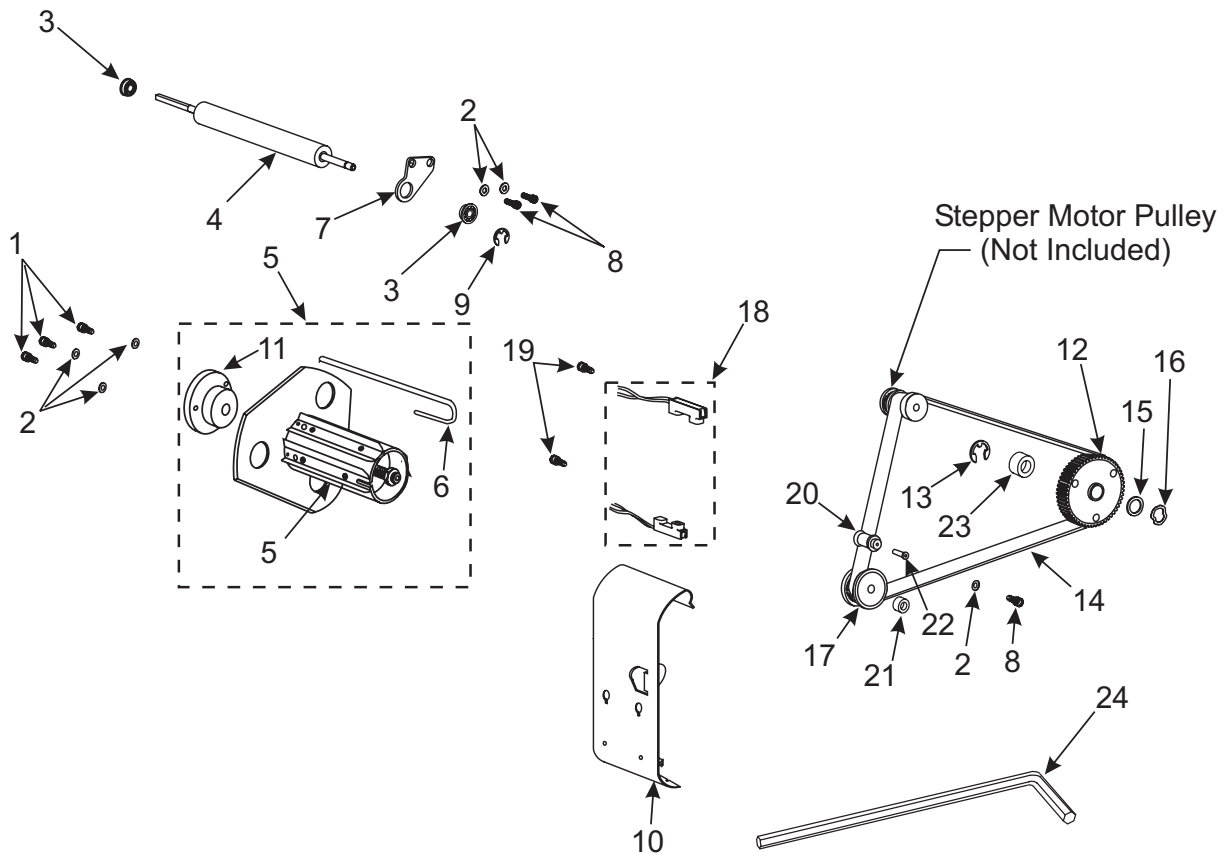
### Parts List

✓	Item	Qty	Part Number	Description
	Ref	1	<b>G33181</b>	Kit, Rewind Upgrade 105SL
	1	3	<b>HW30393-006</b>	Screw, 8-32 x 0.37, Socket Head Cap (Qty. of 25)
	2	6	<b>HW40193</b>	Washer, Flat 0.406 x 0.172 x 0.048 (Qty. of 25)
	3	2	<b>49688</b>	Bearing, Flanged (Part of 40038M)
	4	1	<i>32416</i>	Platen Roller
	5	1	<i>32122</i>	Media Take-Up Spindle
	6	1	<b>47062-2</b>	Hook, Rewind (Part of 32122)
	7	1	<b>32347</b>	Bracket, Platen Support
	8	3	<b>HW30392-004</b>	Screw, 6-32 x 0.25, Socket Head Cap (Qty. of 50)
	9	3	<b>HW33810</b>	C-Ring (Two are included as a spares.) (Qty. of 100)
	10	1	<b>G48383M</b>	Assembly, Std. Rewind Plate
	11	1	<i>30334-7</i>	Assembly, Bearing Housing (Part of 32122)
	12	1	<b>31336M</b>	RTU/MTU Pulley Assembly
	13	1	<b>HW33811</b>	E-Ring (Qty. of 25)
	14	1	<b>45189-2</b>	Belt, Rewind Drive
	15	1	<b>HW33804</b>	Washer, Flat 0.76 x 0.51 x 0.03 (Qty. of 25)
	16	1	<b>HW30115</b>	Washer, Wave (Qty. of 25)
	17		<i>48018</i>	Pulley, Rewind
	18	1	<b>G46609-4M</b>	Assembly, Lower Take Label Sensor. (Black/Red Wires) Assembly Upper Take Label Sensor. (Green/Yellow Wires)
	19	2	<b>HW32334</b>	Screw, 6-32 x 0.37(Included as spares.) (Qty. of 100)
N/S= Not Shown				
<b>Bold</b> = Part available for purchase.				
<i>Italic</i> = Part not available for purchase, listed and shown for reference only.				

✓	Item	Qty	Part Number	Description
	20	1	<b>30265</b>	Pulley, Idler
	21	1	<b>HW22004-1</b>	Spacer (Part of 40038M) (Qty. of 25)
	22	1	<b>30207</b>	Shaft, Idler
	23	1	<i>46909</i>	Spacer (Part of 31336M)
	24	1	<b>11301</b>	Wrench, Long Hex Allen, 7/64"
	N/S	1	<i>01660</i>	Grease (Lubriplate GR-132)
	N/S	1	<b>HW01117</b>	Cable Clamp (This is included as a spare.) (Qty. of 25)
	N/S	1	<b>HW33822</b>	Washer (This is included as a spare.) (Qty. of 100)
	N/S	1	<b>HW33809</b>	Hex Nut (This is included as a spare.) (Qty. of 25)

N/S= Not Shown  
**Bold** = Part available for purchase.  
*Italic* = Part not available for purchase, listed and shown for reference only.

Figure 1 • Kit Parts



## Reference Materials

105SL User CD  
105SL User Guide  
105SL Quick Reference Guide  
105SL Maintenance Manual

## Tools Required



**Tools** • You need these tools to complete this procedure:

- Phillips Screwdriver Set
- Hex Head Driver 7/64 in. Extended Reach (10 in. shaft)
- Standard Hex Key (Allen Wrench) Set
- Standard Nutdriver Set
- 11303 Spring Gauge 2200g
- Antistatic Wriststrap and Mat
- Needle Nose Pliers  
Long Needle Nose Pliers
- Metric/inch Ruler
- Safety Goggles

## Differences in Printer Configurations

The printer identification label on the rear of the unit identifies the configuration of the printer. The format of the Configuration Number is as follows:

10500-1XXX-XXXX

These instructions cover the two major configurations of the 105SL. The significant differences between configurations are denoted by the first digit of the second group of numbers. If that digit is a zero (0) or one (1), the 105SL has separate AC and DC power supplies. If that digit is a two (2) or three (3), the 105SL has an integrated AC/DC power supply. The main logic board is different in the two configurations.

## Preparing the Printer



**Note** • Retain all parts removed during disassembly, unless otherwise directed.

### Printer Configurations 10500-0XXX-XXXX and 10500-1XXX-XXXX.

The printer must be partially disassembled to install the various parts provided in this kit. Use the following procedure to disassemble the printer.



1. **Caution** • Observe proper electrostatic safety precautions when handling static-sensitive components such as circuit boards and printheads.

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Connect yourself to an antistatic device.



2. **Caution** • Turn off (O) the printer and disconnect it from the power source before performing the following procedure.

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Turn off (O) the printer and disconnect the AC power cord and all data cables.

3. **Caution** • While performing any tasks near an open printhead, remove all rings, watches, hanging necklaces, identification badges, or other metallic objects that could touch the printhead.

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Open the right side media cover and remove all media and ribbon from the printer.

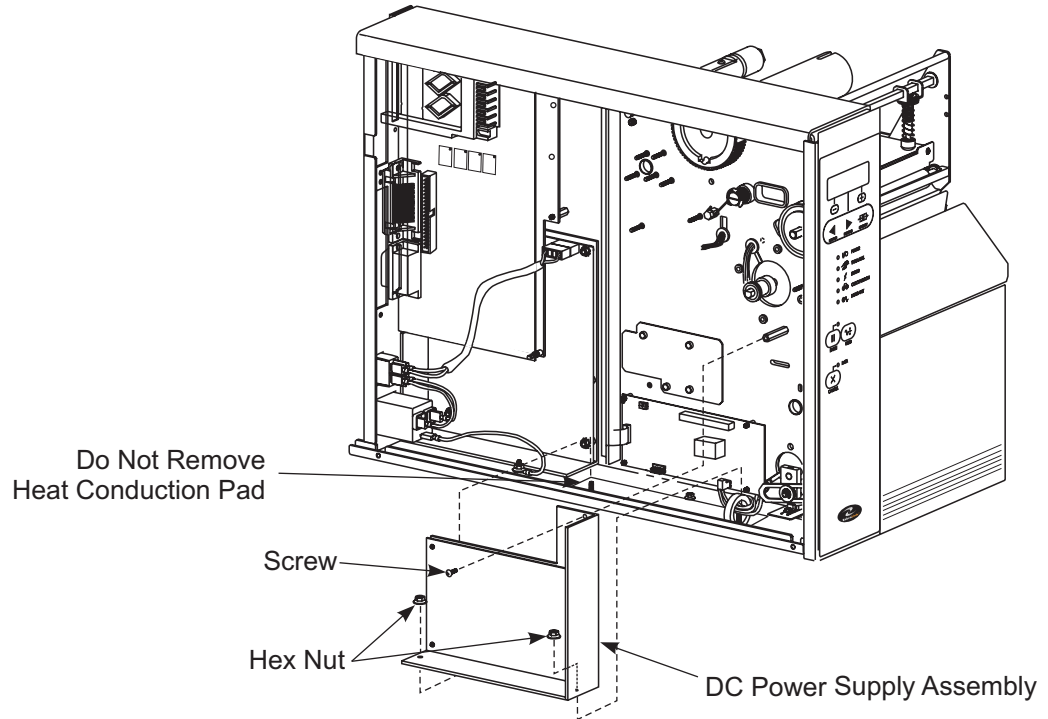
4. Remove the two screws securing the electronics cover. Remove the cover.



**Note** • You can leave all wires and cables attached to the DC power supply board. With wires still attached, move the assembly aside to gain access to the area of the printer you need to install the kit parts.

5. See [Figure 2](#). Inside the electronics cabinet, remove the two nuts and one mounting screw that secure the DC power supply assembly in position.

**Figure 2 • DC Power Supply Removal/Installation**



6. Remove the DC power supply assembly from the printer chassis.



**Note •** The black heat conduction pad **MUST NOT** be discarded.

## Printer Configurations 10500-2XXX-XXXX and 10500-3XXX-XXXX.

The printer must be partially disassembled to install the various parts provided in this kit. Use the following procedure to disassemble the printer.



1. **Caution** • Observe proper electrostatic safety precautions when handling static-sensitive components such as circuit boards and printheads.

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Connect yourself to an antistatic device.



2. **Caution** • Turn off (O) the printer and disconnect it from the power source before performing the following procedure.

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Turn off (O) the printer and disconnect the AC power cord and all data cables.

3. **Caution** • While performing any tasks near an open printhead, remove all rings, watches, hanging necklaces, identification badges, or other metallic objects that could touch the printhead.

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Open the right side media cover and remove all media and ribbon from the printer.

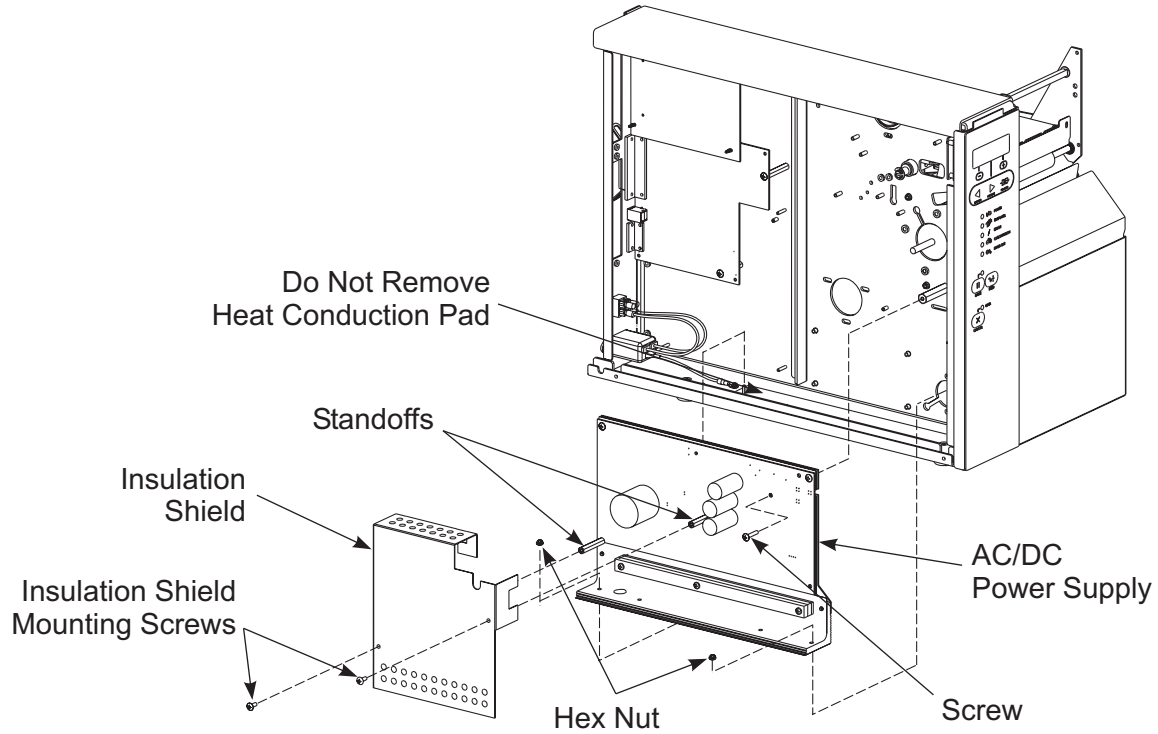
4. Remove the two screws securing the electronics cover. Remove the cover.



**Important** • Certain components located under the insulation shield can store a residual charge for as long as ten minutes after power has been removed. Use extreme care when removing the power supply. Handle the board only around the outer edges.

5. See [Figure 3](#). Remove and retain the two screws securing the insulation shield to the standoffs on the power supply. Carefully unwrap the top of the shield and remove it from the power supply.

Figure 3 • AC/DC Power Supply Removal and Installation



6. Unplug the four cable connectors attached to the AC/DC power supply board.



**Note** • You may leave the cable tie attached to the upper right-hand corner of the board.

7. Remove and retain the two nuts and one mounting screw that secure the AC/DC power supply assembly in position.
8. Swing the assembly aside to gain access to the mainframe of the printer.



**Note** • The black heat conduction pad **MUST NOT** be discarded.

## Installing the Media Rewind Option Kit

1. See [Figure 4](#). Remove and discard the plastic plug in the lower access hole near the bottom of the print mechanism side plate.
2. Slide the bearing housing assembly (11) off the shaft of the backing rewind spindle assembly (5).
3. Install the bearing housing assembly on the printer main frame using three screws (1) and three flat washers (2).  
Do not tighten the screws at this time.
4. Place a flat washer (2) onto one of the screws (8).
5. Using the Allen wrench (24) provided with this kit, place this mounting screw through the lower access hole in the side plate and through the idler pulley mounting slot in the printer main frame.
6. On the electronics side of the printer main frame, attach the idler shaft (22) to the mounting screw.
7. Position the idler shaft in the middle of the mounting slot and tighten the mounting screw.
8. With a toothpick or small screwdriver, apply a very small amount of grease (provided in kit) to the idler shaft.  
Avoid getting grease anywhere except on the idler shaft.
9. See [Figure 9 on page 15](#). Orient the idler pulley (20) as shown, and slide it onto the idler shaft.
10. Remove and discard the plastic plug from the rewind spindle mounting hole near the bottom of the side plate.
11. Insert the shaft of the rewind spindle (5) through the bearing housing assembly (11).
12. Place the wave washer (16), flat washer (15) and pulley (12) over the shaft of the rewind spindle (5).



**Caution** • Wear protective eyewear when installing or removing E-rings, C-clips, snap rings, springs, and mounting buttons. These are under tension and could fly off.

13. Slide the spacer (23) onto the shaft of the rewind spindle.





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14. **Caution** • Wear protective eyewear when installing or removing E-rings, C-clips, snap rings, springs, and mounting buttons. These are under tension and could fly off.
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Press the E-ring (13) into the groove in the shaft of the rewind spindle.

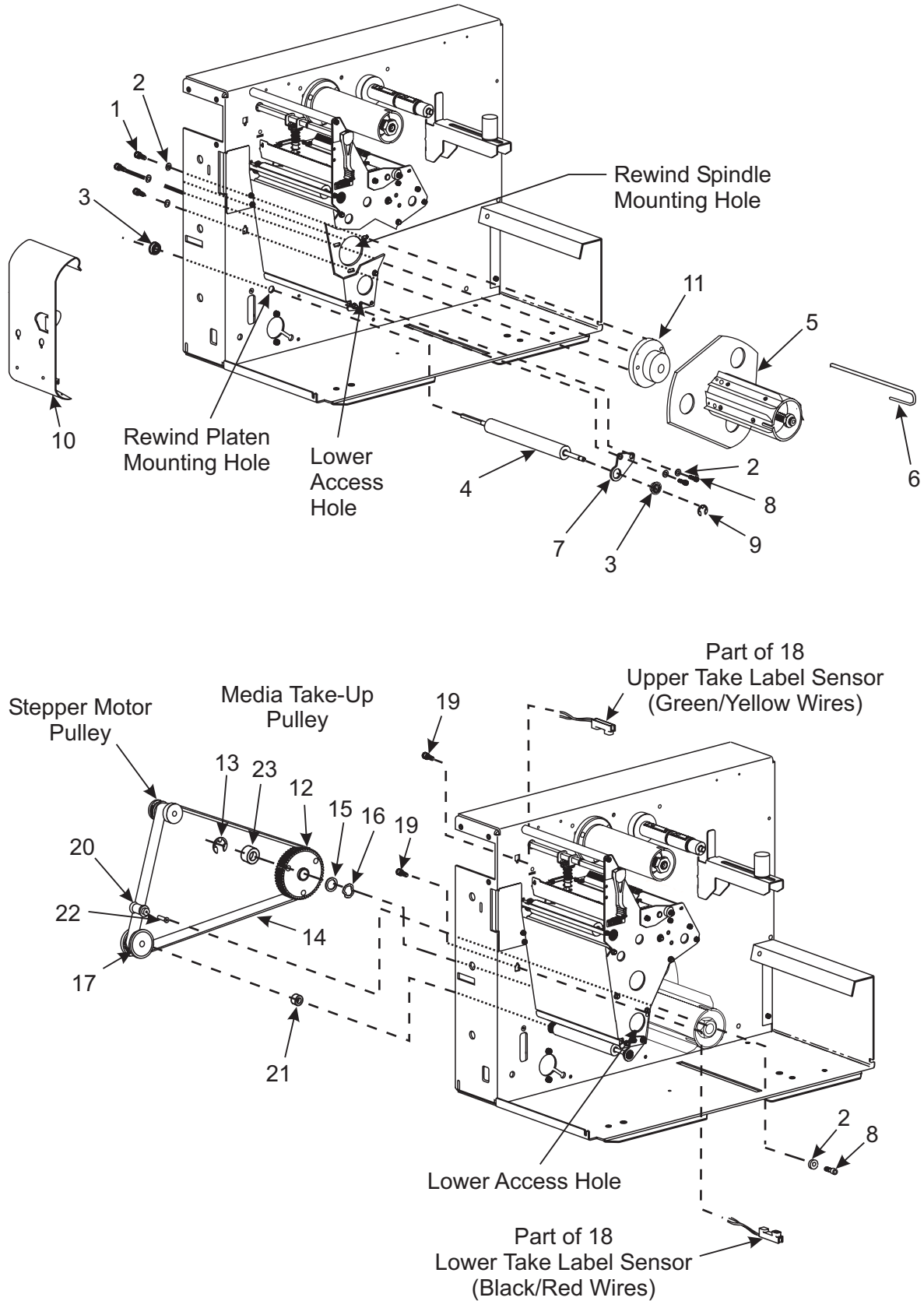
15. Attach the platen support bracket (7) to the side plate with two flat washers (2) and two screws (8).

Do not tighten the screws at this time.

16. Remove and discard the plastic plug from the rewind platen mounting hole near the bottom of the side plate.

17. Insert the long end of the platen roller (4) through the platen mounting hole.

**Figure 4 • Rewind Assembly Installation**



18. Place one flange bearing (3) over the left end of the platen roller, flange out. Press the bearing into the mounting hole of the main frame.

19. Place the opposite end of the platen roller through the platen support bracket.



20. **Caution** • Wear protective eyewear when installing or removing E-rings, C-clips, snap rings, springs, and mounting buttons. These are under tension and could fly off.

Place the remaining flange bearing (3) over the right end of the platen roller with the flange of the bearing facing the outside of the platen support bracket. Press the bearing into the mounting hole in the platen support bracket and secure with C-ring (9).

21. Tighten the mounting screws that secure the platen support bracket to the side plate. The bracket may need adjustment later.

22. Slide spacer (21) onto the platen roller.

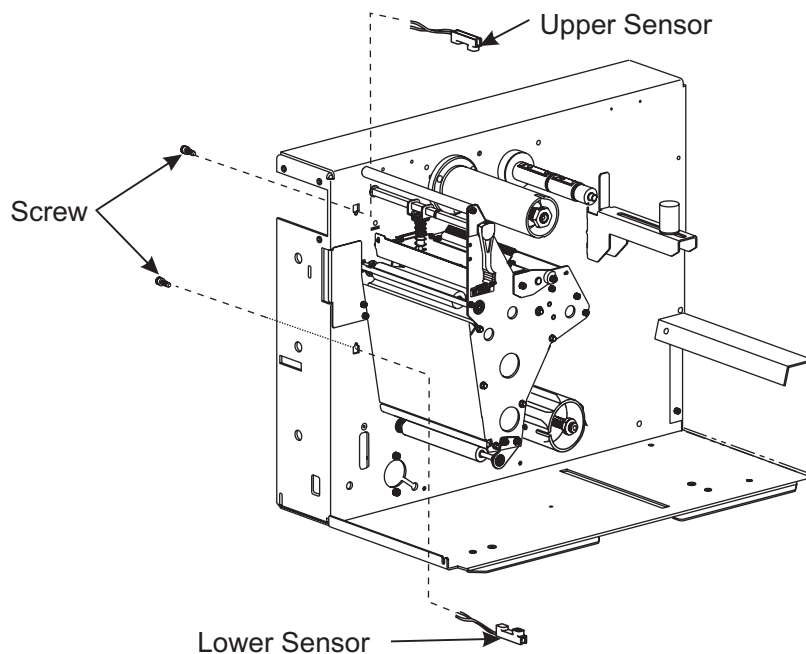
23. Slide rewind platen pulley (17) onto the platen roller and align the two set screws with the flat surfaces of the platen roller.

24. Leave approximately a 0.020 in. (0.5 mm) gap between the C-ring and platen support bracket. Tighten the two pulley set screws.

25. See [Figure 5](#). Remove the plastic plugs from the upper and lower take-label sensor mounting holes.

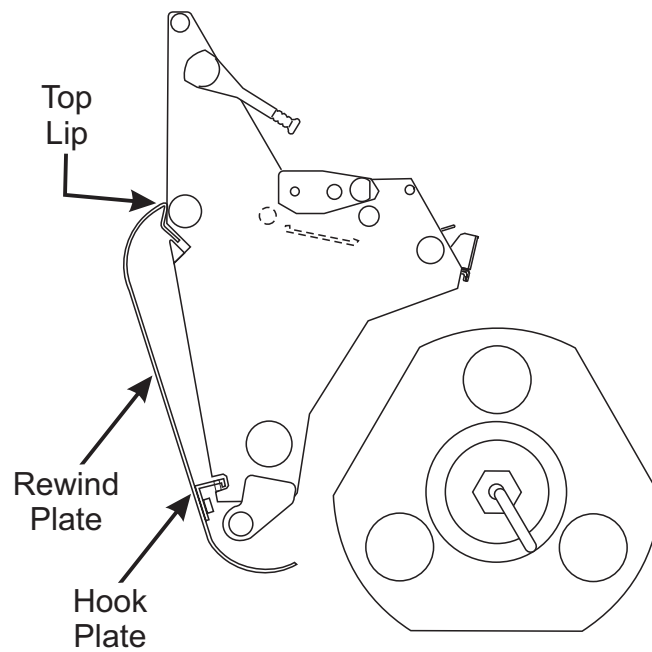
26. Insert the upper take-label sensor connector and green and yellow wire cable through the upper hole in the main frame.

Figure 5 • Take-Label Sensors



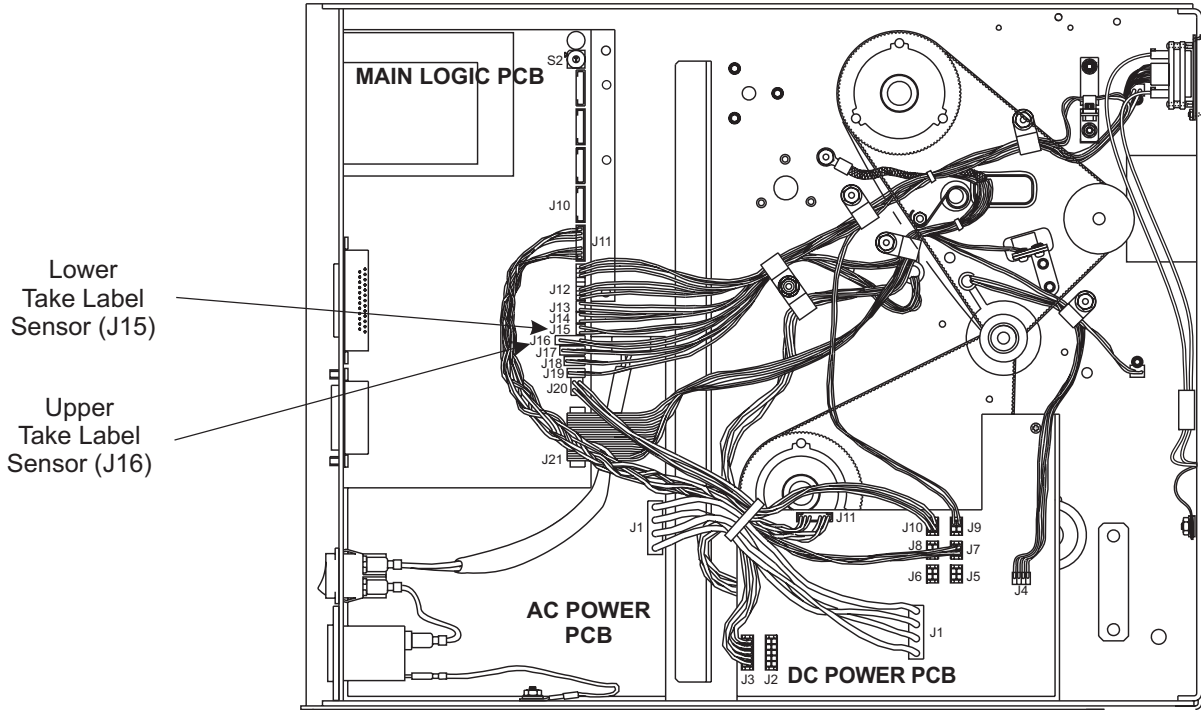
27. Position the sensor with the window facing down. Secure the sensor to the main frame with one screw.
28. Insert the lower take-label sensor connector and black and red wire cable through the lower hole in the main frame.
29. Position the sensor with the window facing up. Secure the sensor to the main frame with one screw.
30. See [Figure 6](#). Insert the top lip and hook plate of the rewind plate into the two mounting slots and slide the plate in as far as it can go.

**Figure 6 • Rewind Plate Installation**

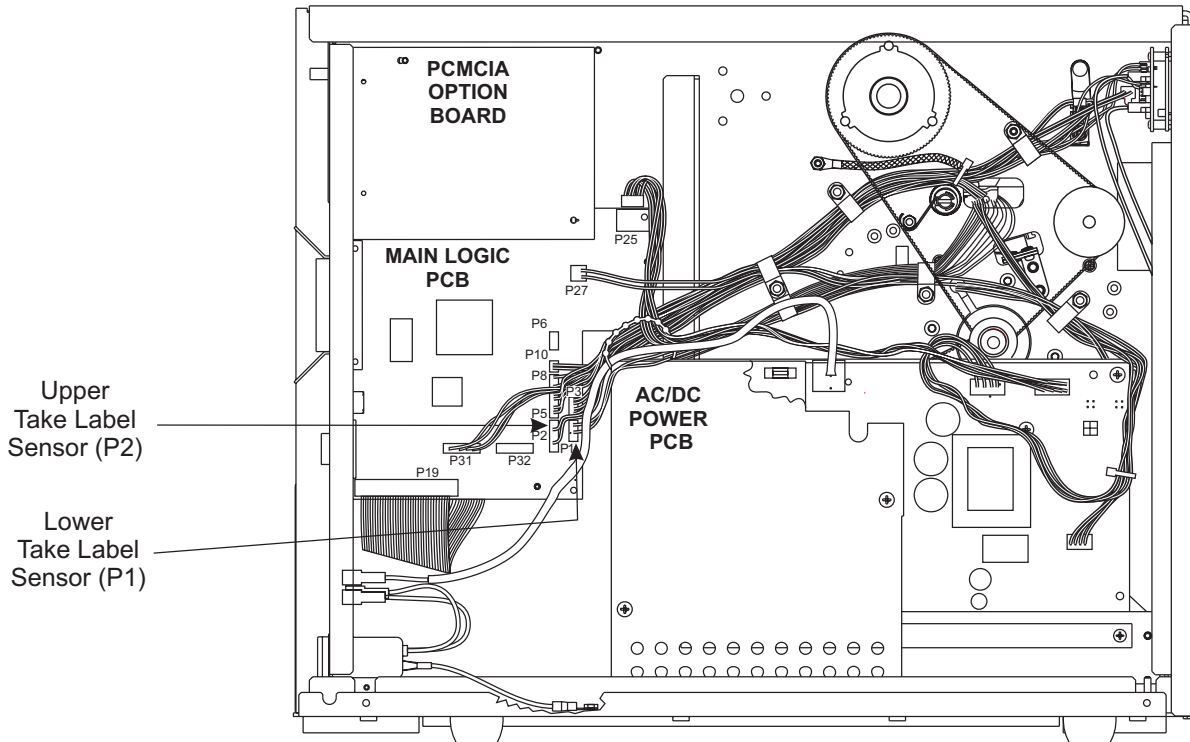


31. See [Figure 7](#). Route the sensor wires through the cable clamps and bring them to the main logic PCB. Make sure that the wires do not come in contact with any moving parts.

**Figure 7 • Sensor Connections**



**Printer Configurations 10500-0XXX-XXXX and 10500-1XXX-XXXX**



**Printer Configurations 10500-2XXX-XXXX and 10500-3XXX-XXXX**

32. What printer configuration do you have?

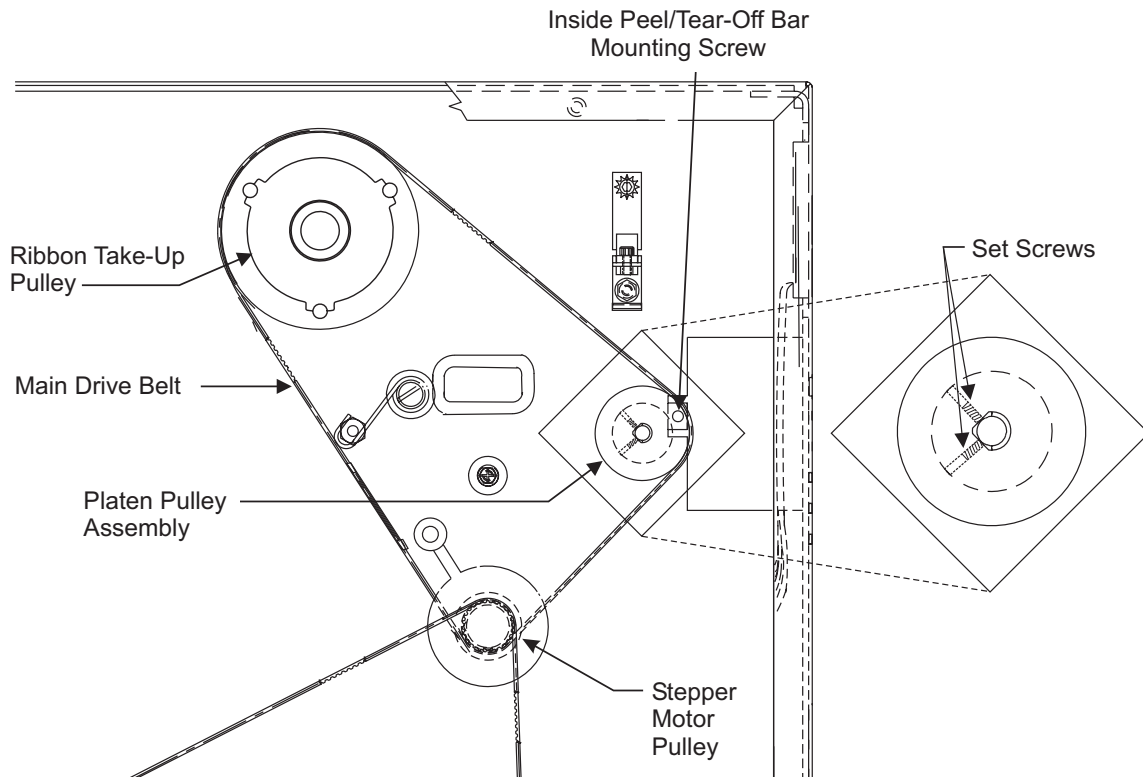
If you have a printer configuration between...	Then...
10500-0XXX-XXXX and 10500-1XXX-XXXX	<p><b>a.</b> Connect the upper take label sensor connector to J16 on the main logic PCB.</p> <p><b>b.</b> Connect the lower take label sensor connector to J15.</p>
10500-2XXX-XXXX and 10500-3XXX-XXXX	<p><b>a.</b> connect the upper take label sensor connector to P2 on the main logic PCB.</p> <p><b>b.</b> Connect the lower take label sensor connector to P1.</p>



**Note** • In peel off mode, if the two sensors are not aligned with each other, the take-label LED illuminates, and the printer does not operate.

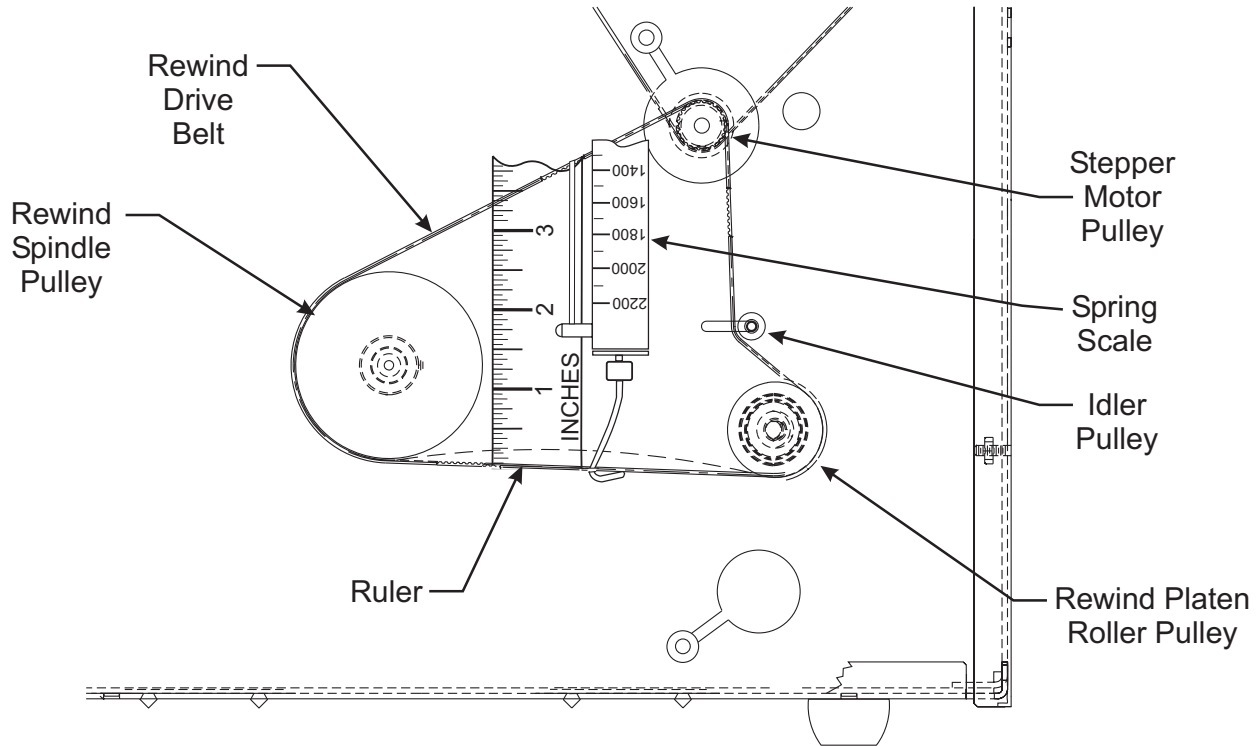
33. See [Figure 8](#). Rotate the ribbon take-up pulley until the three holes in the pulley align with the three mounting screws that hold the ribbon take-up spindle assembly to the printer frame.
34. Extend the Allen wrench (provided in the kit) through the holes in the ribbon take-up pulley and loosen the three spindle assembly mounting screws.
35. Slide the ribbon take-up spindle assembly to the right to relieve the tension on the main drive belt.
36. Remove the main drive belt by sliding it off the ribbon take-up pulley.

**Figure 8 • Main Drive Belt**



37. See [Figure 9](#). Route the rewind drive belt around the inside stepper motor pulley, rewind spindle pulley, rewind platen pulley and the idler pulley.

**Figure 9 • Initial Rewind Drive Belt Tensioning**



38. Slide the rewind assembly toward the rear of the printer until the belt tension is tight. Extend the wrench through the access holes in the backing take-up pulley assembly, and tighten the three screws.

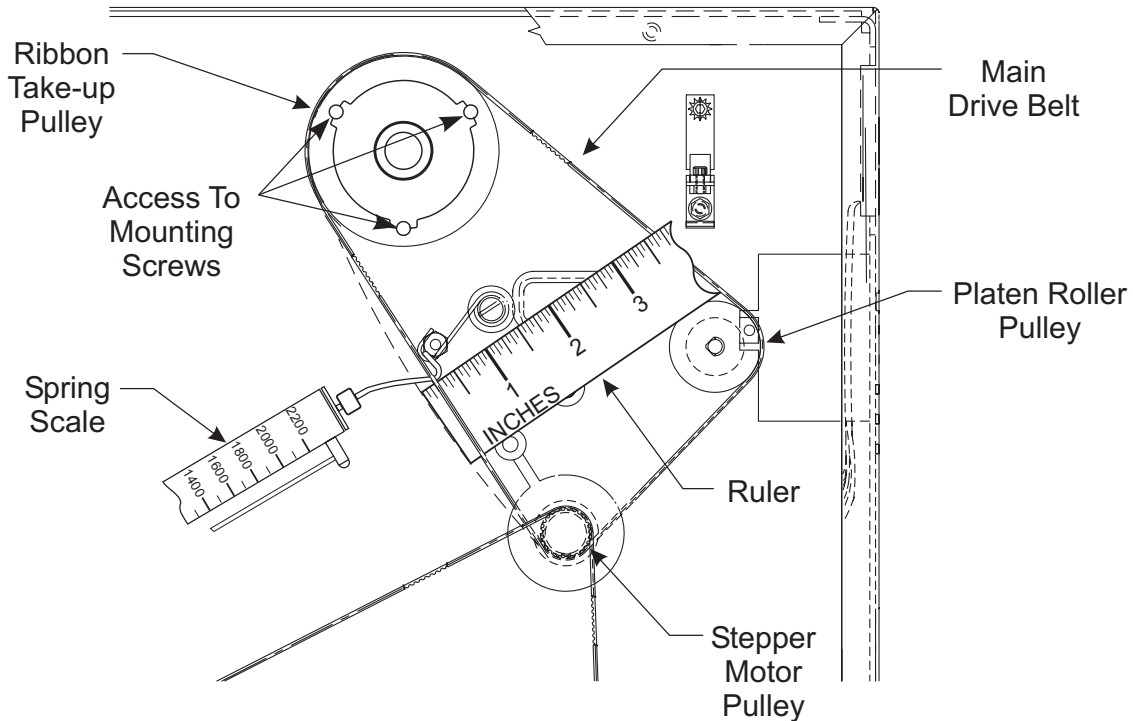


**Note** • The rewind assembly may reach the limit of travel before the belt is tight.

39. Grasp the idler pulley and shaft assembly. Loosen the screw securing the idler pulley, and slide the assembly toward the rear of the printer until belt tension is tight. Tighten the screw to secure the idler pulley.
40. Hook a spring scale at the midpoint of the lower section of the belt and pull up. The belt should deflect 0.25 inches (6 mm) with a tension of 2000 grams (4.5 lbs.). Readjust the belt tension by changing the position of the idler pulley.
41. When adjustment is completed, reinstall the plastic plug in the lower access hole in the print mechanism side plate.

42. See [Figure 10](#). Install the replacement main drive belt around the stepper motor pulley, the platen pulley, and the ribbon take-up pulley.
43. Hook a 2200-gram spring scale to the belt and carefully slide the ribbon take-up spindle assembly to the left to increase belt tension.

Figure 10 • Main Drive Belt Adjustment



44. When a scale reading of 2000 grams  $\pm$ 250 grams (4.5 lbs.  $\pm$ 0.5 lbs.) creates a deflection of 1/4 inch (6 mm), tighten the three mounting screws.
45. Reinstall the DC power supply or AC/DC power supply, depending on configuration.
46. Plug in the four cable connectors to the AC/DC power supply board.
47. Reinstall the electronics cover.
48. **Caution** • While performing any tasks near an open printhead, remove all rings, watches, hanging necklaces, identification badges, or other metallic objects that could touch the printhead.

Reinstall the media and ribbon.

49. Reconnect the data cables and the power cord.
50. Reconnect the power cable to the power source. Turn on (I) the printer power.
51. Perform a PAUSE Key Self Test and observe the tracking of the liner. If the media does not track properly, proceed to [Adjusting the Platen Support Bracket on page 17](#).



## Reconfigure the Printer for Rewind Operation

1. Enter the Configuration mode by pressing Setup/Exit at the **Printer Ready** display.
2. Press Next/Save until you get to **Print Mode**.
3. Press (+) or (-) until you select **REWIND**.
4. Press Setup/Exit to leave the Configuration mode. Press (+) or (-) to select **Permanent**. Press Next/Save to accept and make permanent.

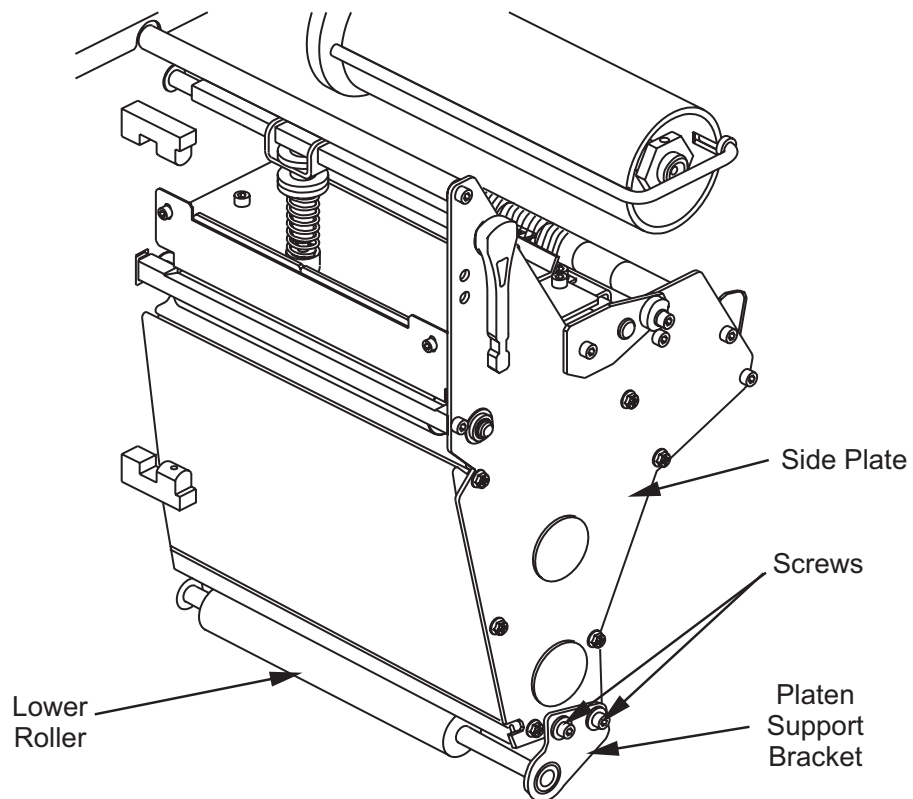
## Adjusting the Platen Support Bracket

If the liner is tracking off to one side, you will need to reposition the roller adjust plate.

**To position the roller adjust plate, perform the following procedure:**

1. See [Figure 11](#). Loosen, but do not remove, the two screws holding the platen support bracket to the side plate.

**Figure 11 • Platen Support Bracket Adjustment**



2. Adjust the bracket position as required and tighten the screws.



**Note** • Moving the bracket toward the front of the machine moves the label backing material toward the main frame. Moving the bracket toward the rear of the machine moves the label backing away from the main frame.

3. Tighten the two screws. Check label backing tracking again.
4. Repeat the procedure until the required results are achieved.