



Zebra Technologies Corporation

S-300™ & S-500™ STRIPE® Dual-Tension Spindle Kit Installation Instructions

This Kit includes one Dual-Tension Spindle Kit (P/N 44912M) and the documentation necessary to install it on the on the S-300 (serial number 531975 or earlier) and the S-500 (serial number 531975 or earlier) printers. Read these instructions thoroughly before attempting to install this kit.

Note: *This kit is designed for older S-300 and S-500 printers that do not have the dual-tension spindles*

REFERENCE MATERIAL

44870L Zebra S-300/S-500 User's Guide 44452L Zebra S-300/S-500 Maintenance Manual

TOOLS REQUIRED

#1 Long Reach Phillips Magnetic Screwdriver	0.035" Allen Wrench 1.5mm Allen Wrench	Anti-Static Wrist Strap Anti-Static Mat
#2 Phillips Screwdriver	3mm Allen Wrench	

PARTS LIST

✓	QTY	PART NUMBER	DESCRIPTION
	1	10432	Screw, M4 x .7
	1	44174	Coupling, Chain 6D
	1	44356	Washer, Flat .198 x .75 x .085
	3	44084	Washer, Flat .70 x .38 x .03
	1	N/A	Dual Tension Spindle Assembly
N/A – Not Available As Separate Service Item			

PRINTER DISASSEMBLY



CAUTION:

OBSERVE PROPER ELECTROSTATIC SAFETY PRECAUTIONS WHEN REMOVING, HANDLING AND REPLACING PRINTED CIRCUIT BOARDS.

1. Turn printer off and remove the power cord.
2. Remove the printer communications cable (if connected).
3. Lift on the main door and swing it up and to the left until it rests on top of the right side cover (see Figure 1).

4. Remove the media and ribbon.
5. Using both hands, slide the main door towards the rear of the printer. Lift the end of the main door nearest the front of the printer, pivoting it to the rear of the printer and off the printer main frame.
6. Grab the tab on top of the front door and carefully pull down until it rests on the desktop.
7. Notice that the front door hinges in three places on the base of the printer.
8. Grab the front door, near the left and right hinge.
9. Pull the left side of the front door away from the printer base while pivoting on the right side (or vice-versa).
10. Remove the three cover screws attaching the rear cover to the printer main frame (see Figure 2).
11. Lift the rear cover straight up approximately $\frac{1}{2}$ " and then slide off towards the rear of the printer.

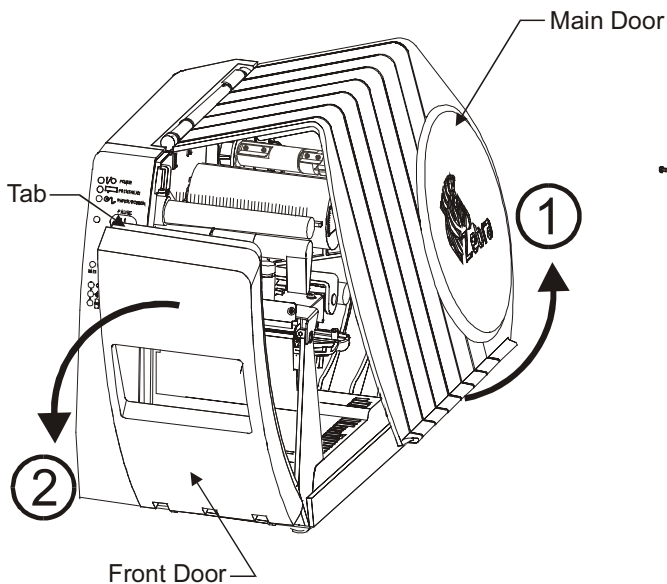


Figure 1.

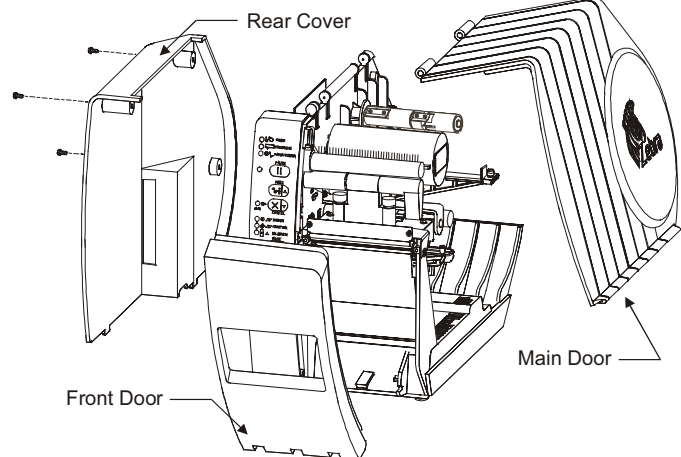


Figure 2.

MEDIA SENSOR ASSEMBLY REMOVAL

12. Disconnect the main logic board's ribbon cable connector (J6) from the contact pins of the sensor circuit board (see Figure 4).

Note: *Certain printers may have the media sensor contact pins inserted into a connector mounted directly to the Main Logic Board.*

13. Carefully slide out the upper media guide assembly (see Figure 3).
14. Locate the two mounting screws used to secure the media sensor assembly to the Main Frame.
15. Using a long reach magnetic tip Phillips screwdriver, carefully remove the two mounting screws (see Figure 3).

16. Carefully remove the media sensor assembly from the main frame.



CAUTION:

AFTER REMOVING THE MEDIA SENSOR ASSEMBLY, NOTE THE POSITION OF THE SLIDING TAB. THIS TAB IS CONNECTED TO THE UPPER MEDIA SENSOR.

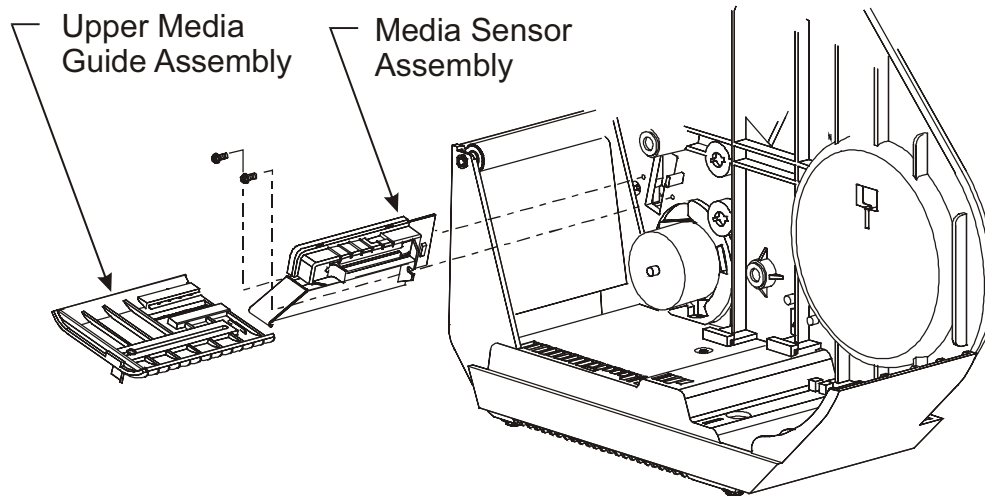


Figure 3.

MAIN LOGIC BOARD REMOVAL

17. Note the positions of all ribbon cable connectors and wire harness connectors. Remove all connectors to the main logic board (see Figure 4).
18. Remove the two 5mm hex screws securing the main logic board to the printer main frame (see Figure 4).
19. Rotate the head open lever so that the sensor flag is off of the main logic board.
20. Carefully grasping both sides of the main logic board, pull the board straight up from the power supply connector and out of the unit. A gentle rocking motion of the main logic board may be necessary to release it from the power supply board.
21. Lay the main logic board on the anti-static mat.

OLD RIBBON SUPPLY SPINDLE REMOVAL

22. Loosen the two setscrews in the clutch collar (see Figure 5.).
23. Remove the clutch collar, ground chain, nylon washer and clutch spring.
24. Loosen the two setscrews in the shaft collar.
25. Remove the shaft collar and washer.
26. Remove the old ribbon supply spindle and washers.
27. Cut the existing ground chain loop, near the connector, as shown in Figure 6.

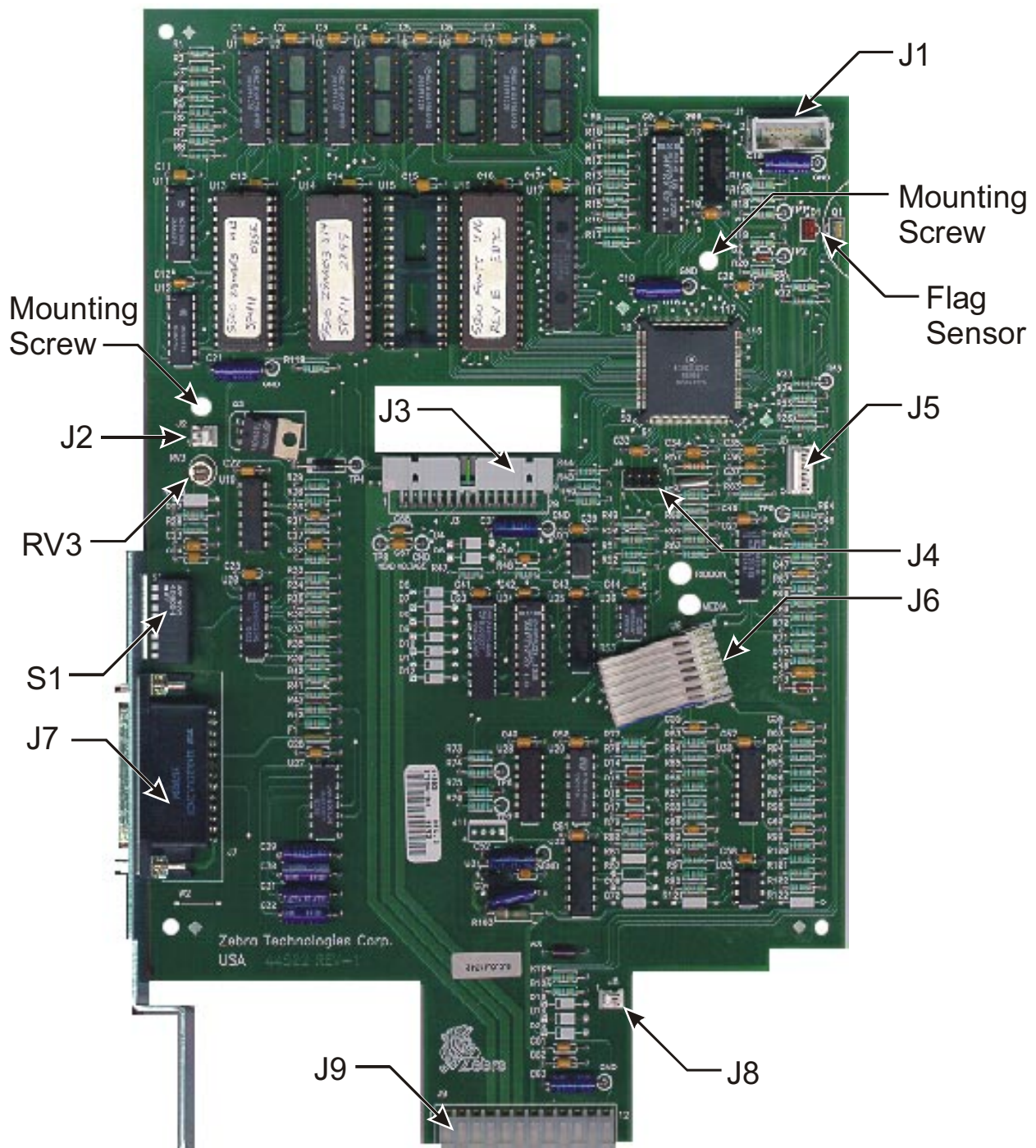


Figure 4.

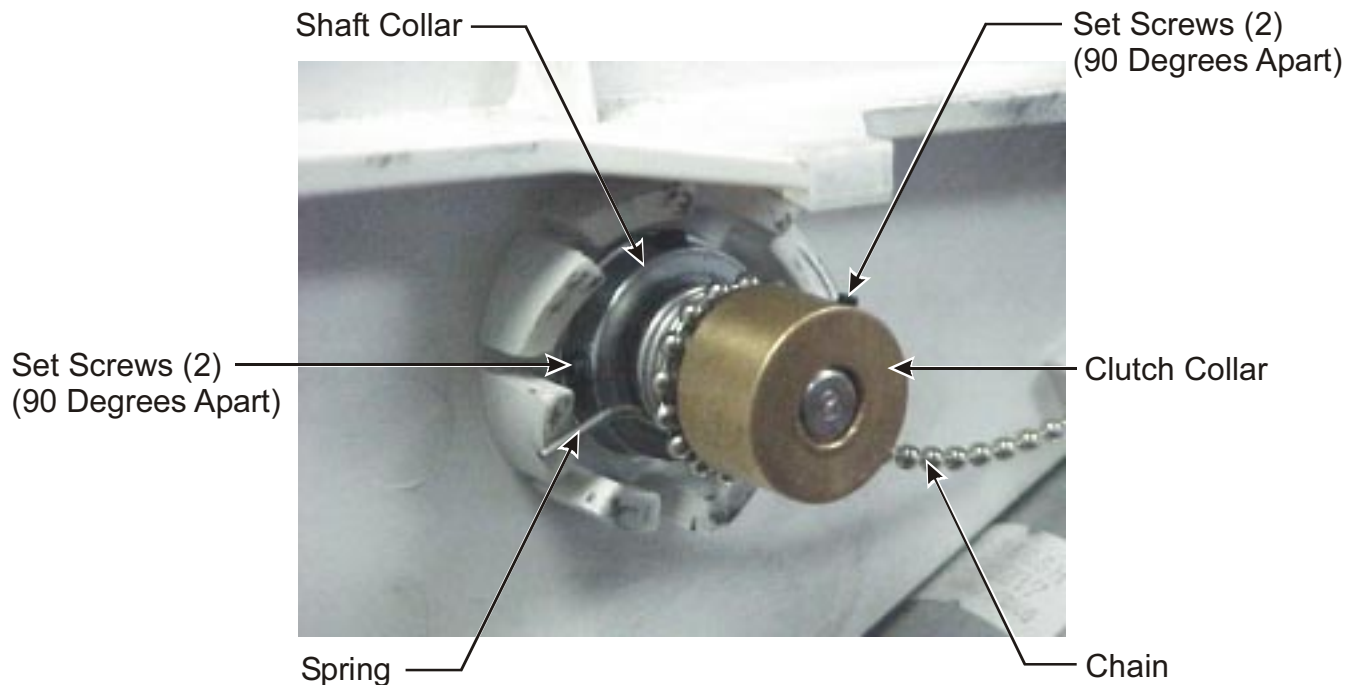


Figure 5.

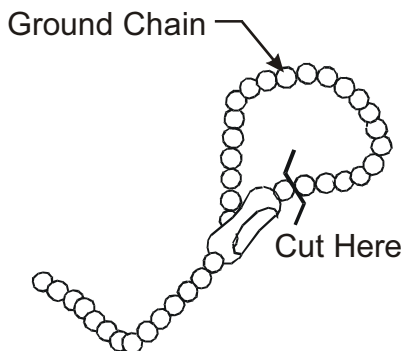


Figure 6.

28. Slightly open the chain clip as shown in Detail A of Figure 7.
29. Place the first ball through the opening and down into the bend of the clip.
30. Close the chain clip to hold the chain.
31. Install the new dual-tension spindle assembly as shown in Figure 7.
32. Reinstall the main logic board by reversing steps 17 through 20.
33. Reinstall the media sensor assembly by reversing steps 12 through 16.
34. Replace the covers and reload the media and ribbon.
35. Reinstall the communications cable and power cord.

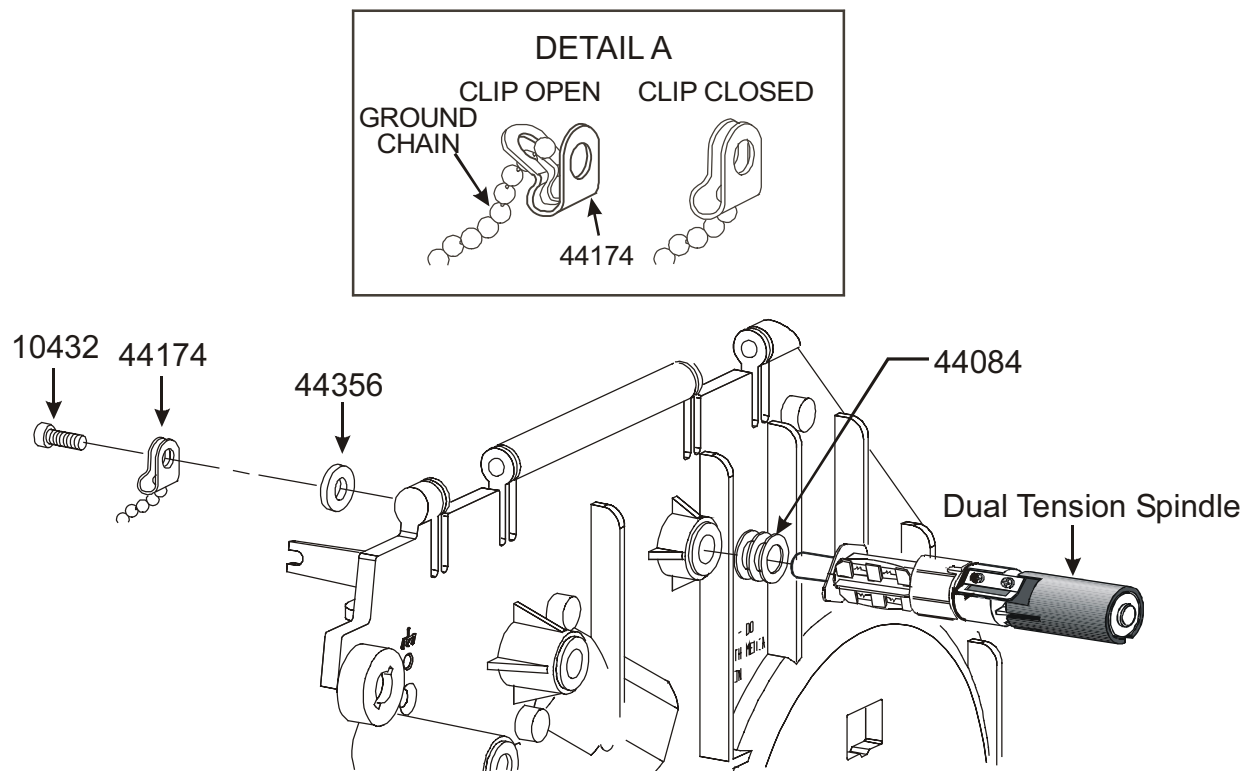


Figure 7.

ADJUSTING THE RIBBON SUPPLY SPINDLE

Normal Position

In the normal position, the dual-tension ribbon supply spindle provides the desired amount of ribbon back-tension for different ribbon widths. To place the spindle in the normal position, firmly pull spindle end-cap until it clicks into place (see Figure 8).

Low-Tension Position

The low-tension position is used in limited applications with ribbons wider than 2.4" (60 mm) to provide lower back-tension. The low-tension position is only recommended when the normal tension hampers the ribbon movement. To place the spindle in the low-tension position, firmly push the spindle end-cap until it clicks into place (see Figure 8).

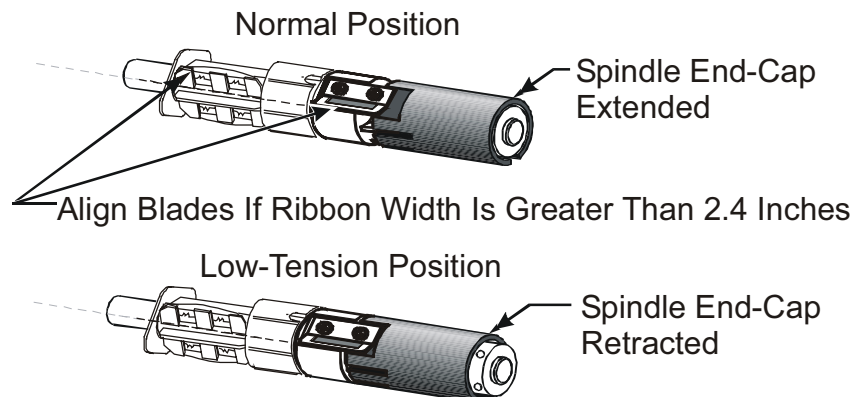


Figure 8.