

Procedure 7.10 - Replacing the Lower and/or Upper Ribbon Cables

Before you install a new ribbon cable, ensure that the ribbon cable is defective as described in Procedure 6.1, Troubleshooting the Lower and Upper Ribbon Cables.

Removing the Lower Ribbon Cable

- 1. Turn off the climber with the circuit breaker, then unplug the power cord from the wall outlet.

WARNING

Before continuing with this procedure, review the Warning and Caution statements listed in Section One, Things You Should Know.

- 2. Slide the enclosure collar up on the column.
- 3. Disconnect the lower ribbon cable from the upper ribbon cable (see Diagram 7.5).
- 4. Choose one:

IF...

You are replacing the upper ribbon cable

THEN...

Skip to Step 20

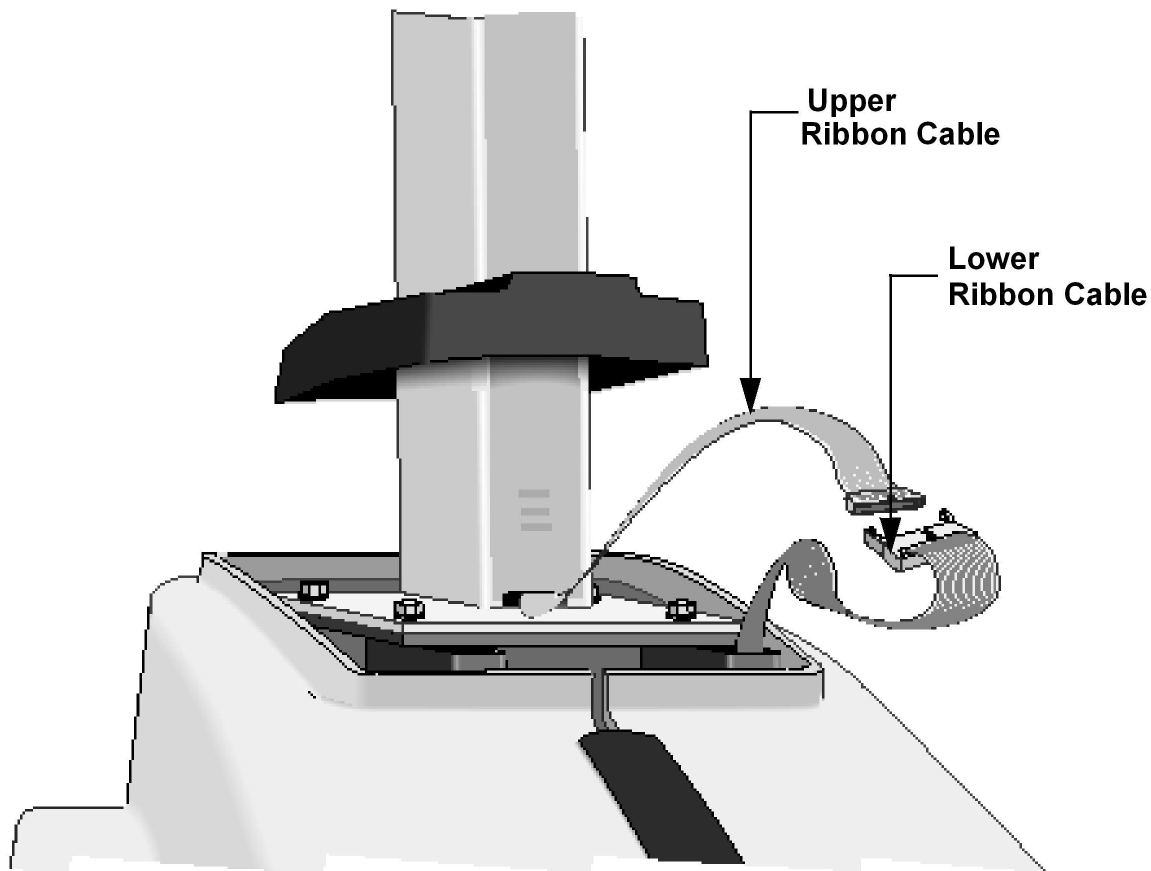
You are replacing the lower ribbon cable

Continue with the next step

Note:

Take care not to damage the cables when you perform the next step.

- 5. Remove the screws that secure the power entry module to the climber frame. Pull the module out of the climber.
- 6. Disconnect the lower ribbon cable from the lower PCA.
- 7. Loosen the fastener that secures the top of the left cover to the climber frame.
- 8. Remove the screws that secure the left cover to the climber frame. Set the left cover aside.
- 9. Remove the front and back cover enclosure strips from the climber.

Diagram 7.5 - Upper and Lower Ribbon Cables**Note:**

The cable clips hold the lower ribbon cable away from moving components on the climber. Note how the lower ribbon cable is folded and routed through the cable clips.

10. Remove the lower ribbon cable from the cable clips mounted on the climber frame.

Replacing the Lower Ribbon Cable

11. Gently feed one end of the ribbon cable down through the left column frame upright.
12. Connect the new lower ribbon cable to the upper ribbon cable and the lower PCA.
13. Fold the ribbon cable in half and route it through the cable clips mounted on the climber frame. Make sure that the ribbon cable does not come in contact with moving components.
14. Position the left cover against the climber frame.

Note:

Take care not to pinch the cables when you perform the next step.

15. Push the power entry module into the climber. Install the screws that secure the power entry module to the climber frame.
16. Install the screws that secure the left cover to the climber frame.
17. Tighten the fastener that secures the top of the left cover to the climber frame.
18. Position the front cover enclosure strip over the gap created by the right and left covers. Press the strip along its length until the top of the enclosure strip lies next to the cover surface. Repeat this step for the back cover enclosure strip.
19. If you are installing a new upper ribbon cable on the climber...

THEN...

Continue with the next step.

OTHERWISE...

Skip to Step 30.

Removing the Upper Ribbon Cable

20. Remove the screws that secure the display housing to the display base plate.
21. Push each set of tabs toward the edges of the base plate as you lift the display housing.

Note:

Turn over the display housing and support it on the display base plate while you perform the following steps.

22. Disconnect the upper ribbon cable from the upper PCA. Do not pull the cable out of the frame upright at this time. Set the display housing aside.

Replacing the Upper Ribbon Cable

23. Tape one end of the new upper ribbon cable to the lower end of the original upper ribbon cable.
24. Pull the original upper ribbon cable from the top of the column and through the display base plate. When the connector of the new cable clears the top of the column, disconnect and discard the original ribbon cable.
25. Support the display housing while you connect the new upper ribbon cable to the upper PCA.
26. Line up the tabs on the display housing with the tab holes on the display base plate.

27. Gently press the display housing onto the display base plate until the tabs are pushed into the holes on the base plate.
28. Replace the screws that secure the display housing to the display base plate

Note:

Gently push any excess cable into the column.

29. Connect the upper and lower ribbon cables to each other.
30. Slide the enclosure collar down the column and over the column mounting screws. Press down to ensure a snug fit.
31. Check the operation of the climber as described in Section Four, Checking Unit Operation.