

Procedure 7.7 - Replacing the Lower and/or Upper Interconnect Cables

Before you install a new interconnect cable, ensure that the interconnect cable is defective as described in Procedure 6.1.

Procedure

1. Set the on/off switch in the *off* position.

WARNING

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

2. Attach the wrist strap to your arm, then connect the ground lead of the wrist strap to the EFX frame.

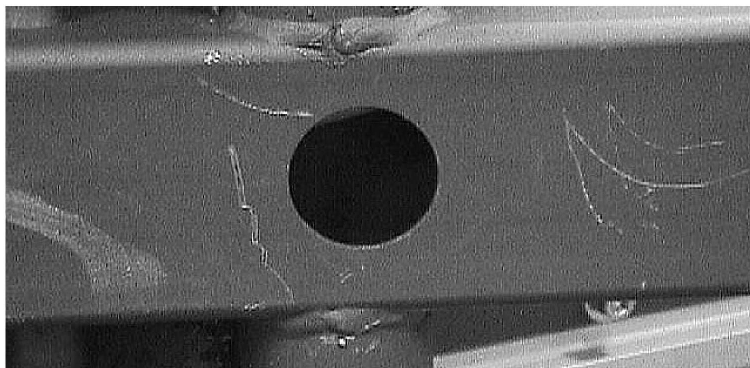
Note:

There are three different interconnect cable combinations that were used on the C546. Version 1 units manufactured prior to Feb. 8, 1999 used an upper and lower ribbon cable. Version 1 units manufactured after Feb. 7, 1999 used a single ribbon cable. Version 2,3 units used an upper and lower telephone cable (RJ45). For version 1 units manufactured prior to Feb. 8, 1999 start with step 3. For version 1 units manufactured after Feb. 7, 1999, start with step 20. For version 2,3 units start with step 29.

Replacing the Upper Interconnect Cable

3. If you are replacing the lower interconnect cable, skip to step 12.
4. Remove the display housing per Procedure 7.2, steps 2 to 6.
5. Lay the EFX on its side. The upper and lower interconnect cables are connected in the main frame tube. Locate the access hole in the main frame tube. (See Diagram 7.8).

Diagram 7.8 - Interconnect Cable Access



6. Two cables are in the main frame tube. The lift motor cable and the interconnect cable(s). Locate the interconnect cable connectors in the access hole and disconnect the interconnect cables.
7. Tape the end of the replacement interconnect cable with the small (16 pin) connector to the upper end of the old interconnect cable (display housing end).
8. Carefully pull the old interconnect cable out of the bottom access hole while feeding the new interconnect cable into the unit. When the new cable is fully into the unit, remove the tape and discard the old interconnect cable. Connect the two interconnect cables and push them into the access hole.
9. Replace the display housing per Procedure 7.2, steps 14 to 18.
10. Remove the ground lead of the wrist strap from the EFX frame, then remove the wrist strap from your arm.
11. Check the operation of the EFX as described in Section Four.

Replacing the Lower Interconnect Cable

12. Remove the rear cover. Remove the shield from the lower PCA. Disconnect the interconnect cable from the lower PCA. (See Diagram 7.6)
13. Lay the EFX on its side. The upper and lower interconnect cables are connected in the main frame tube. Locate the access hole in the main frame tube. (See Diagram 7.8).
14. Two cables are in the main frame tube. The lift motor cable and the interconnect cable(s). Locate the interconnect cable connectors in the access hole and disconnect the interconnect cables.
15. Connect the male connector of the replacement interconnect cable to the old interconnect cable at the lower PCA end of the old interconnect cable.
16. Carefully pull the old interconnect cable out of the bottom access hole while feeding the new interconnect cable into the unit. When the new cable is fully into the unit, remove the tape and discard the old interconnect cable. Connect the two interconnect cables and push them into the access hole.
17. Connect the new interconnect cable to the lower PCA.
18. Replace the shield on the lower PCA. Replace the rear cover.
19. Check the operation of the EFX as described in Section Four.

Version 1 units manufactured after Feb. 7, 1999

20. Remove the display housing per Procedure 7.3. Remove the rear cover.
21. Tie one end of a stout string (at least 12í long) to the upper end of the old interconnect cable (display housing end).
22. Carefully pull the old interconnect cable out of the access hole near the lower PCA while feeding the string into the unit. When the string is fully into the unit, remove the old interconnect cable from the string.
23. Tie the upper end of the string to the end of the new interconnect cable with the small (16 pin) connector. Carefully pull the string out of the access hole near the lower PCA while feeding the interconnect cable into the unit.
24. Replace the display housing per Procedure 7.3.
25. Remove the ground lead of the wrist strap from the EFX frame, then remove the wrist strap.
26. Connect the new interconnect cable to the lower PCA.
27. Replace the shield on the lower PCA. Replace the rear cover.
28. Check the operation of the EFX as described in Section Four.

Version 2,3 units

29. Loosen but do not remove the upper handrail clamp bolts.
30. Remove the four screws that fasten the center handrail tube clamp. See Diagram 7.24.
31. Slowly rotate the center handrail tube forward to expose the cables in the center handrail tube. Disconnect the upper and lower interconnect cables from the mid-point connector.

Replacing the Upper Interconnect Cable

32. Remove the upper display per procedure 7.3, steps 2-7.
33. Tape the replacement upper interconnect cable to the lower end of the upper interconnect cable. Carefully, pull the upper interconnect cable out of the top of the center handrail frame tube.
34. Remove the tape and discard the old upper interconnect cable.
35. Connect the replacement upper interconnect cable to the upper PCA. Replace the upper display per procedure 7.3, steps 8-13.
36. Using the mid-point connector removed in step 31, connect the upper interconnect cable to the lower interconnect cable.

37. Carefully, rotate the center handrail mounting tube back into its mounting position.
38. Set the two halves of the clamp in position, be sure that the pins in the rear half of the clamp mate with the holes in the frame, thread and hand tighten the four clamp mounting screws. Tighten the upper clamp mounting screws before the lower clamp mounting screws. (See Diagram 7.24)
39. Tighten the upper handrail clamp mounting screws.
40. Check operation of the EFX as described in Section Four.

Replacing the Lower Interconnect Cable.

41. Remove the rear cover. Remove the shield from the lower PCA.
42. Tape the replacement interconnect cable to the upper end of the existing lower interconnect cable.
43. Carefully, pull the interconnect cable out of the access hole near the lower PCA.
44. Remove the tape and discard the old lower interconnect cable.
45. Connect the lower interconnect cable to the lower PCA. Replace the lower PCA shield. Replace the rear cover.
46. Using the mid-point connector removed in step 31, connect the upper interconnect cable to the lower interconnect cable.
47. Carefully, rotate the center handrail mounting tube back into its mounting position.
48. Set the two halves of the clamp in position, be sure that the pins in the rear half of the clamp mate with the holes in the frame, thread and hand tighten the four clamp mounting screws. Tighten the upper clamp mounting screws before the lower clamp mounting screws. (See Diagram 7.24)
49. Tighten the upper handrail clamp mounting screws.
50. Check operation of the EFX as described in Section Four.