ARGO 15 X3 to X4 Upgrade Instructions

TDN 07103-08216 Rev A

REVISION HISTORY

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Contact Information - North America

Triton©
21405 B Street
Long Beach, MS 39560 USA

CSS@triton.com
1 (866) 787-4866 (opt 2) or +1 (228) 575-3100 (opt 2)

techsupport@triton.com or techsvs@triton.com
1 (866) 787-4866 (opt 3) or +1 (228) 575-3100 (opt 3)

PURPOSE

This guide covers converting the Main Board Module and display cable from X3 to X4, for the ARGO-15 ATMs.

SCOPE

This manual applies to all service personnel involved in installing, converting, or upgrading hardware on Triton ATMs nationwide and abroad.

APPLICATION

This user guide provides information, methods, and easy-to-follow instructions for converting the Green Baseboard to use X4 Main Board Module, X4 cable, and restoring ATM to normal operations via ARGO User Manual (07103-00399) Rev D.

ARGO-15 table for cable, Green Baseboard ports, Main Board Modules:

ARGO-15				
Cable:	09120-00433		09120-01433	
Green Baseboard (pn: 09100-30630) Ports:	J18	J24	J18	J24
X3 TX53 Mainboard Module	YES	NO	YES	NO
X4 TX6S Mainboard Module	NO	NO	NO	YES

Kit 09200-06511	X4 Module Board and Display cable for ARGO 15 Green Baseboard ONLY
Tools Required	#2 Phillips screwdriver

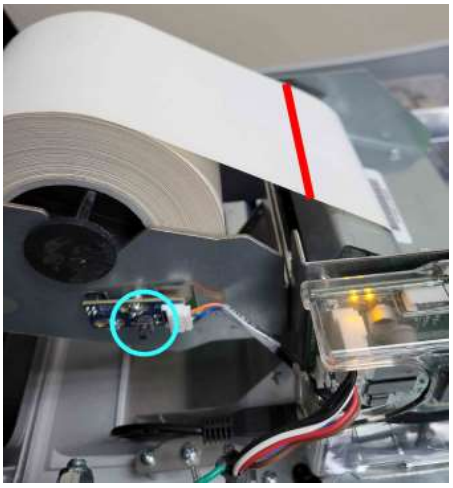
Parts Supplied

	Description	Quantity
1	X4 Module Baseboard	1
2	Cable|LVDS Display Cable| Non-dimming|15” LCD	1

NOTE
Save screws and other components for re-installation in later steps.

Component Removal Procedure

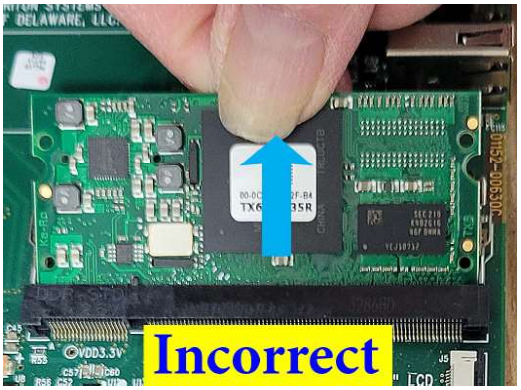
1. Open unit Control Panel. Cut the printer paper, **RED** line. Press Feed button, **BLUE** circle, to remove paper from Print Head. Remove paper roll.

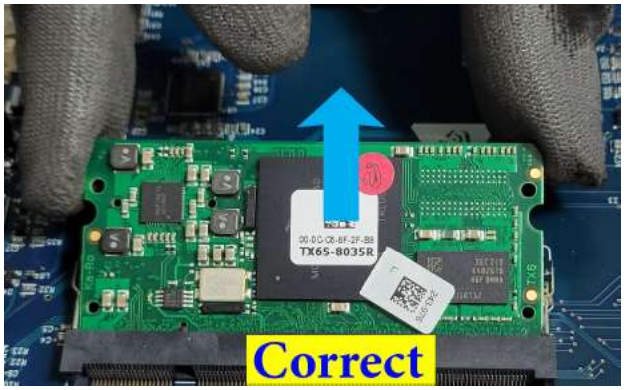


2. Wear an Electrostatic Discharge device, wrist strap or gloves, grounded to ATM chassis before continuing.
3. Login the ATM. Navigate menu options to *Management Functions* > *System Parameters (5)* > **Shut Down the Terminal (4)**. Press **Enter** will verify to exit the program. When the 'shutdown' image appears on screen, on the power supply, press the switch to the OFF (0) position.

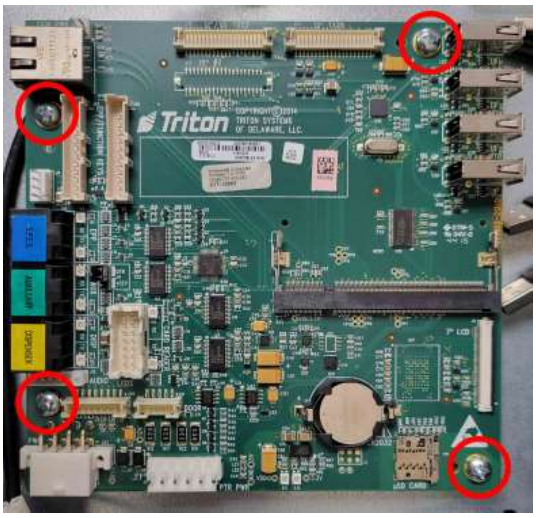
4. Remove Baseboard cover.
5. On the *Left Image*, remove all cables connected to the Baseboard.
6. On the *Right Image*, locate the two clamps holding the Module, **BLUE** arrows. Push clamps slightly in the direction of the **RED** arrows to release the Module.

7. An **Incorrect** pull on the Module center-edge, **BLUE** arrow, may damage the memory components.
8. Hold Module corners **Correct.** Pull the Module in the direction of **BLUE** arrow.

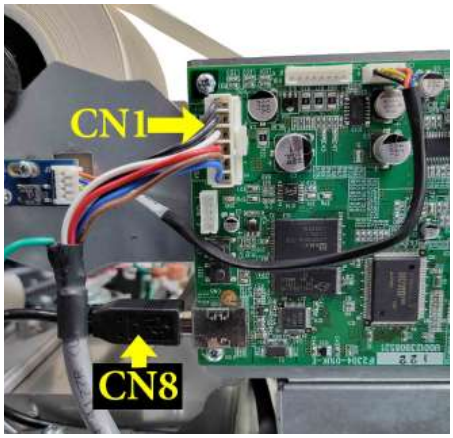


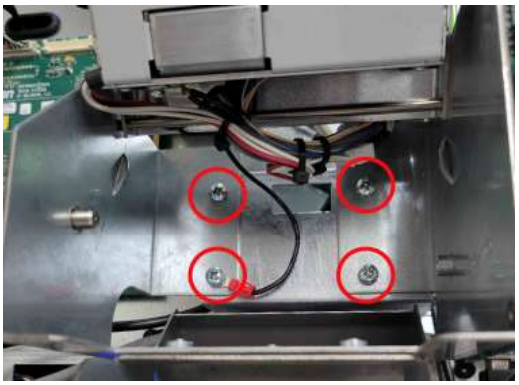


9. Remove and save the four screws, **RED** circles. Place Baseboard in a safe location.



10. On the *Left Image*, disconnect the 6-pin connector, **CN1**, and the USB-B connector **CN8** from the printer circuit board, **YELLOW** arrows.
11. On the *Right Image*, pull side knob and lift print head. Remove the 4-screws, **RED** circles. Hold printer assembly as last screw is removed. Save assembly and screws for re-installation.

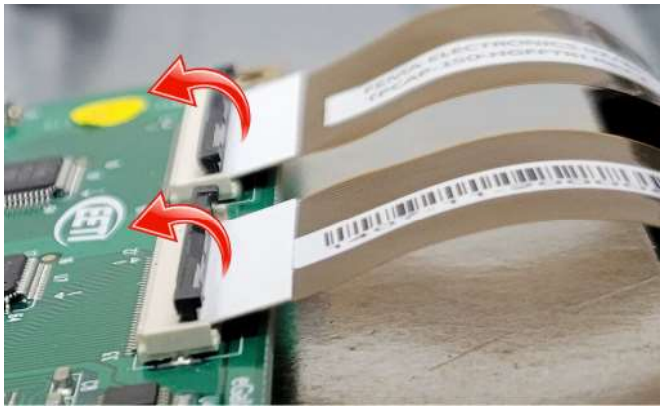




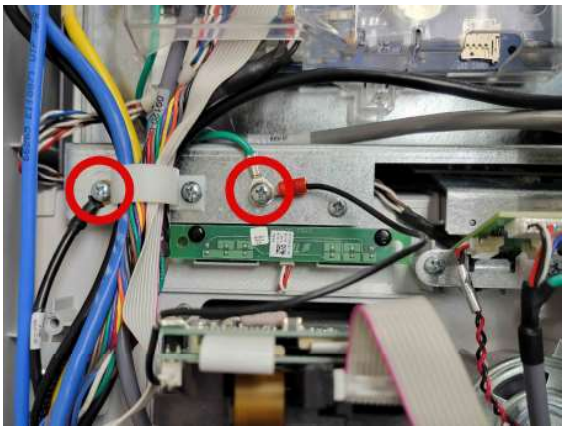
Caution

Use extreme caution when opening and closing the black bar on the connector.
DO NOT remove the bar from the connector.

12. On the *Left Image,* a black bar on each connector secures the display ribbon cable to the touch-screen controller board.
13. On the *Right Image*, rotate the bar up to release and remove the ribbons from the connectors.

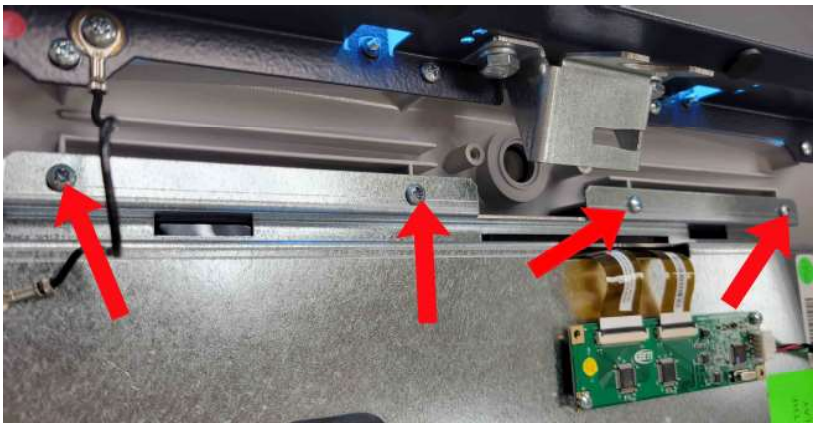



14. Remove and save 4 screws connecting the ground wires.
    - On the *Left Image,* Remove the ground wires, lower-left of the display bracket, **RED** circle.
    - On the *Right Image*, Remove the ground wire connected to the printer chute, **RED** circle.

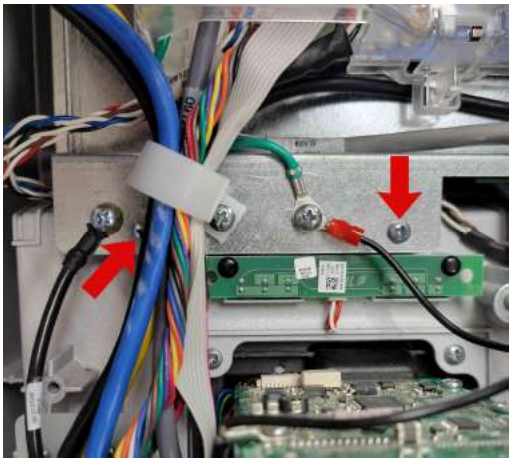



    - Remove the ground wire from display top-left, *Right Image,* **RED** circle.

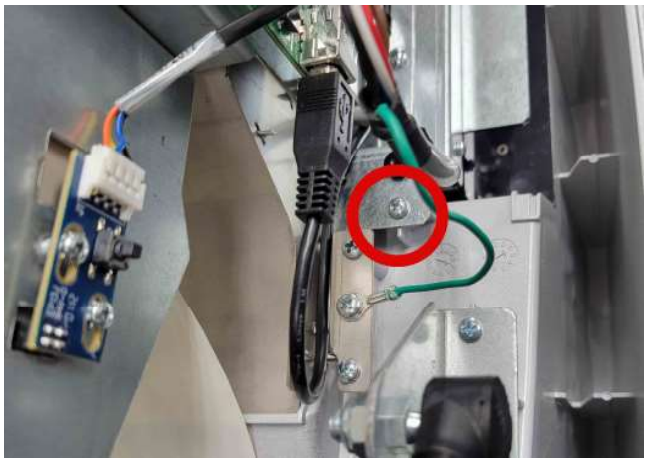
15. Remove and save the 4 screws across the top of the display bracket, **RED** arrows.



16. Remove and save 4 screws holding the display to the Control Panel.
    - On the *Left Image*, remove the 2 left lower display screws, **RED** arrows. One screw under the cable bundle.
    - On the *Right Image*, remove the center-lower display screw, left of the printer location, **RED** circle.



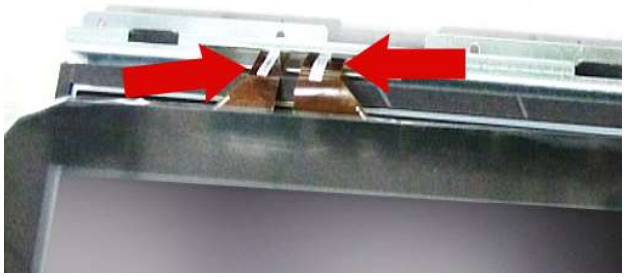
- Remove the screw right of the printer location, **RED** circle.



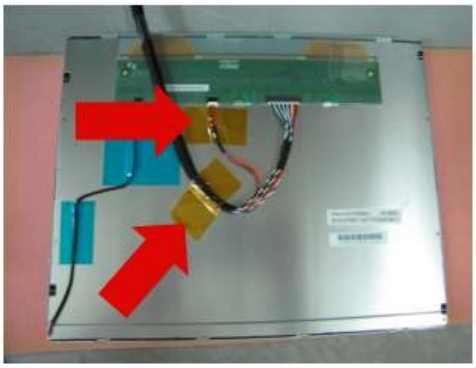
WARNING

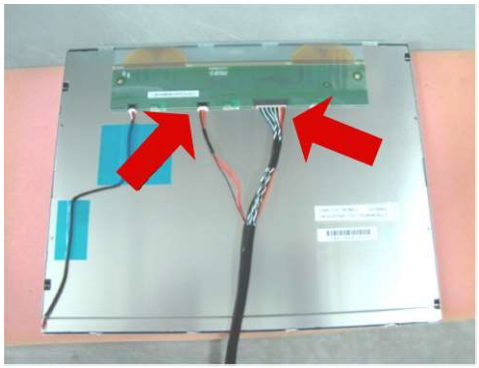
The display could slip through the control panel opening and break, if not handled properly. A gasket holds the glass against the display.

17. Hold hand against the glass side of the display, and lift the display out of the Control Panel.
18. Place display assembly on a soft surface, glass side up.
19. On the *Left Image,* carefully separate the glass with the gasket from the display and carefully remove with the two ribbon cables from the bracket opening, **RED** arrows. Place glass on a cushion and safe location.
20. On the *Right Image*, remove and save 2 screws on right sides, **GREEN** arrows. Loosen 2 screws on the left side, **RED** arrows.

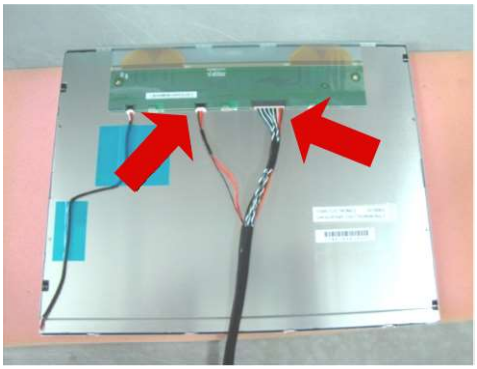


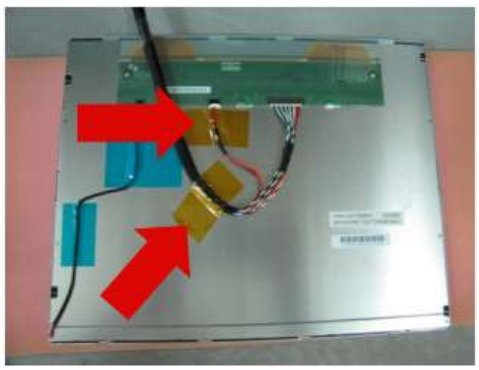
21. On the *Left Image,* turn display assembly face down. Lift bracket panel and pull the cable through the bracket opening. Place bracket aside for reinstallation. Lift one side of tape securing the cable to the back panel, **RED** arrows. DO NOT remove the tape from the back panel.
22. On the *Right Image,* disconnect the small and large connectors from the circuit board, **RED** arrows.





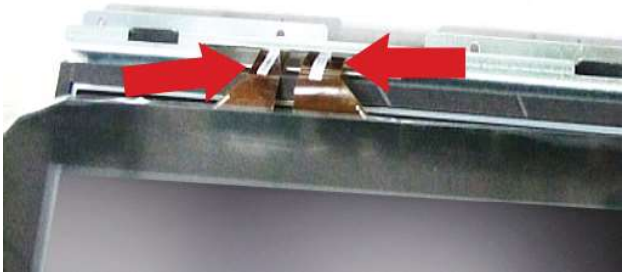
23. Obtain replacement cable from kit (09120-01433).
24. On the *Left Image,* connect the small and large connectors to the circuit board, **RED** arrows.
25. On the *Right Image,* position cable and reapply the tape over the cable, **RED** arrows.

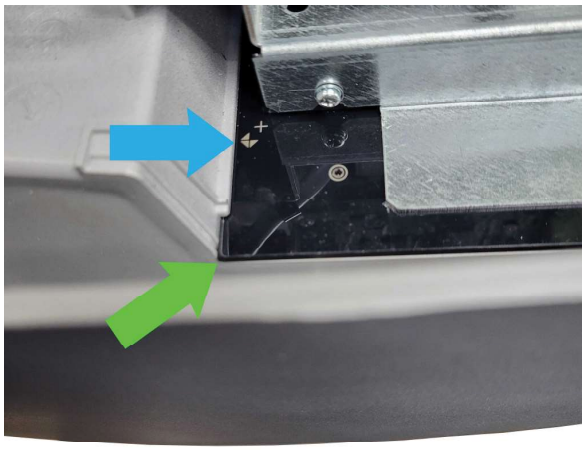




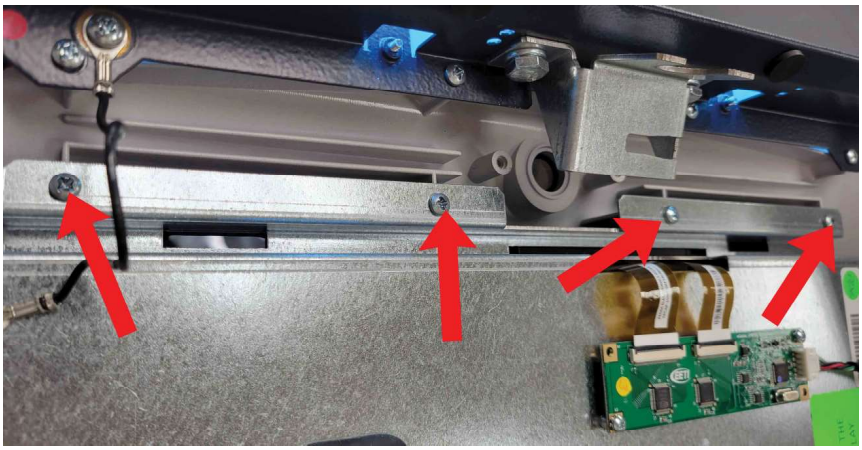
26. On the *Left Image,* insert the data cable through the display bracket opening, YELLOW arrow.
27. On the *Right Image,* hold display and bracket together and turn display assembly up as shown. Tighten 2 screws to secure the left side bracket to the display, **GREEN** arrows. Install 2 screws in the right side of the bracket, **RED** arrows.

28. Obtain the front panel glass. On the *Left Image,* insert the ribbon cable through the bracket slot, **RED** arrows. Lower glass and center onto the display.
29. On the *Right Image,* set the display glass in the control panel lip, **BLUE** arrow. Lower display into control panel. Verify the glass side is positioned at the edge, **GREEN** arrow.

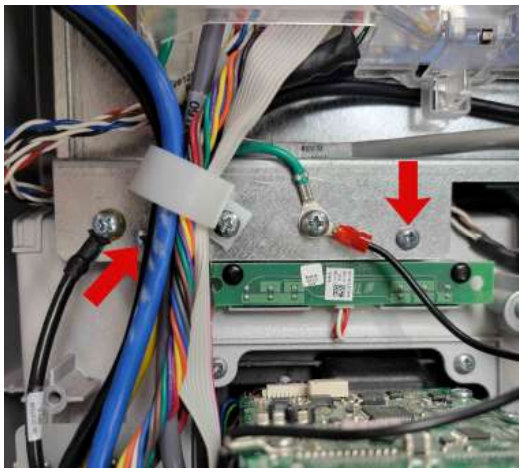


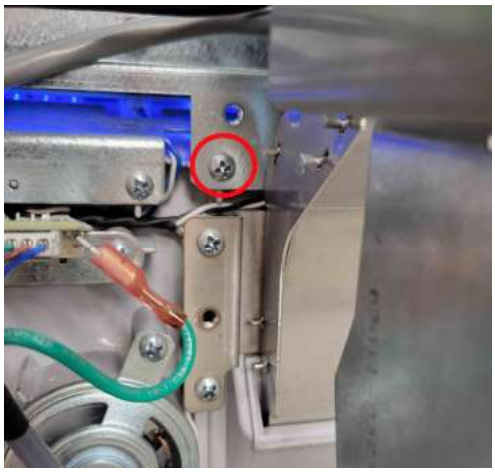


30. Install four screws in the bracket's top edge, **RED** arrows.

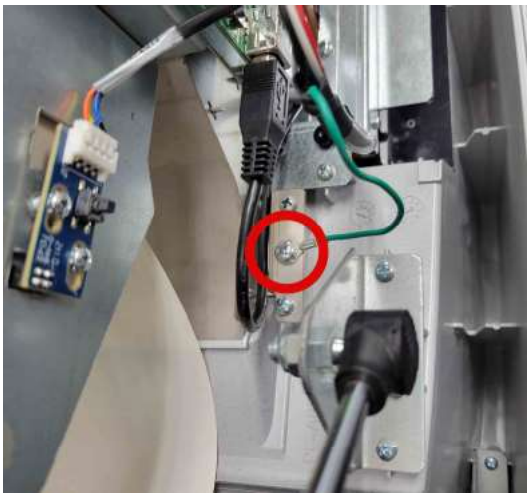


31. Insert four screws in the displays bottom edge.
    - On the *Left Image*, install 2 left lower display screws, **RED** arrows. One screw under the cable bundle.
    - On the *Right Image*, install center lower display screw, left of the printer location, *Right Image*, **RED** circle.

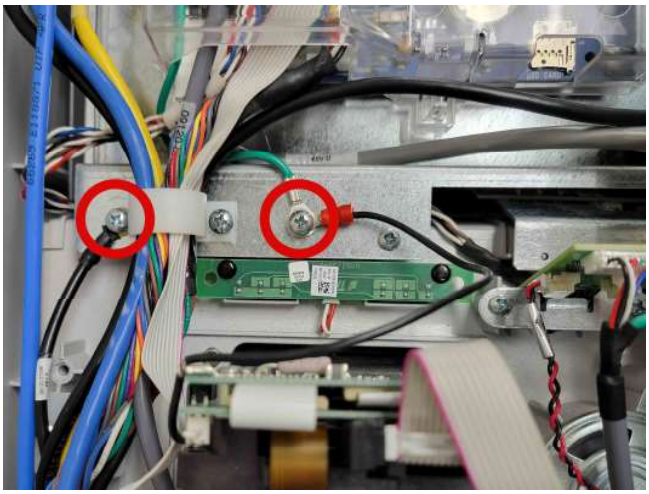


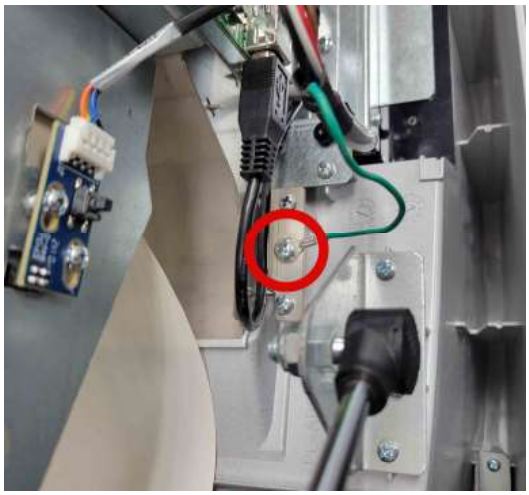


- Insert screw right of the printer location, **RED** circle.



32. Insert the three screws connecting the ground wires.
    - On the *Left Image*, secure ground wire lower-left of the display bracket, **RED** circles.
    - On the *Right Image*, secure ground wire connecting to the printer chute, **RED** circle.



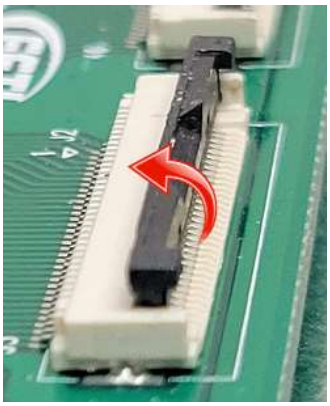


- Secure ground wire on display top-left, **RED** circle.

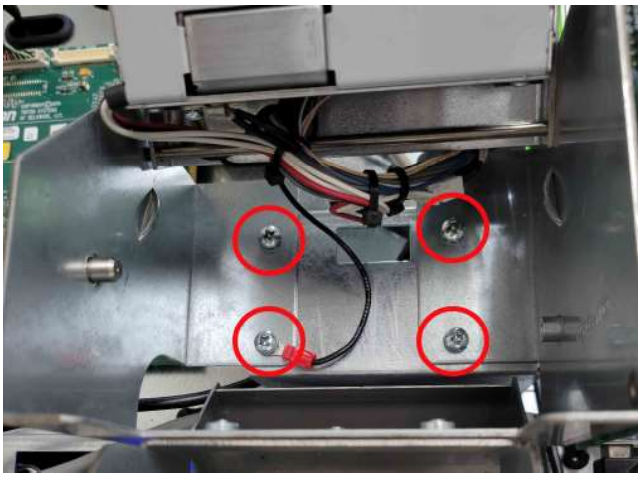
Caution

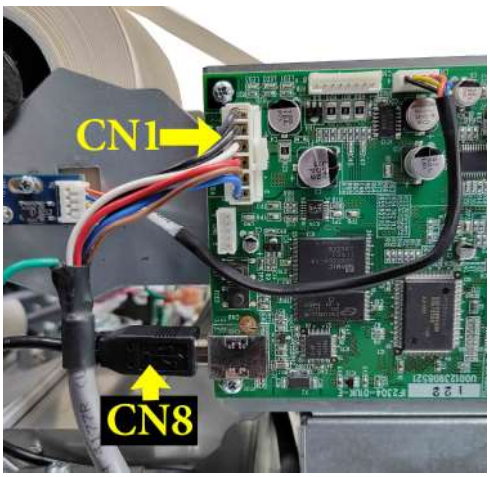
Use extreme caution when opening and closing the black bar on the connector.
DO NOT remove the bar from the connector.

33. On the *Left Image*, verify the connector's black bar is up.
34. On the *Center Image*, connect the two display ribbon cables to the circuit board.
35. On the *Right Image*, rotate bar to secure ribbon to the circuit board.

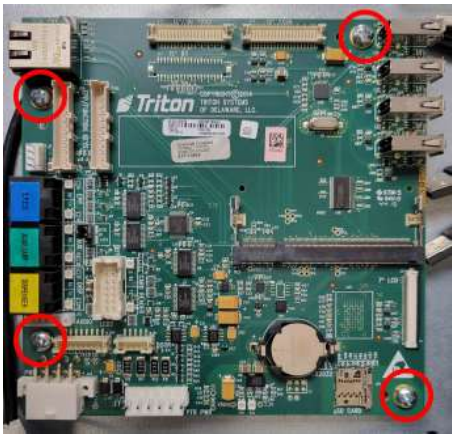


36. On the *Left Image,* position the printer assembly over the four posts and secure with four screws, **RED** circles. Verify the ground secured under one of the screws.
37. On the *Right Image,* connect CN1 and CN8 connectors to the printer circuit board, **YELLOW** arrows.





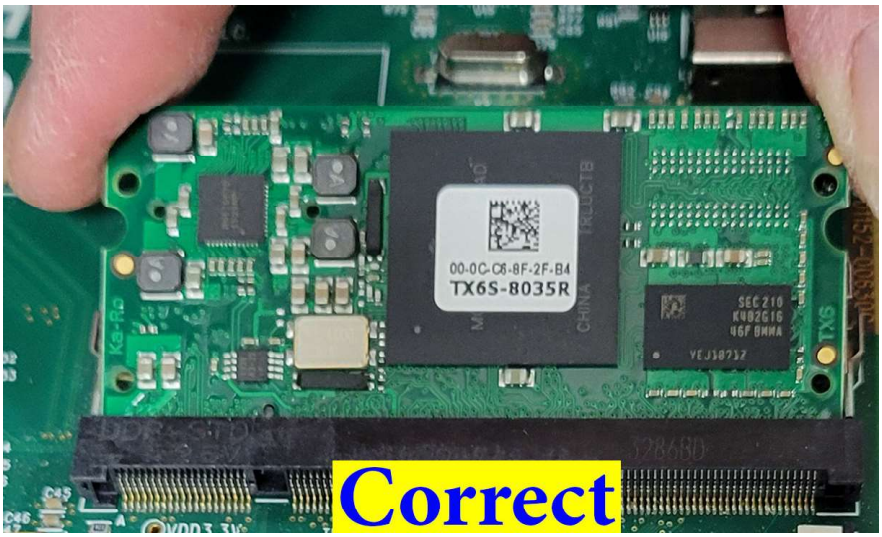
38. On the *Left Image,* position the Baseboard over the four posts and insert four screws, **RED** circles.
39. On the *Right Image,* connect all cables to the Baseboard except the new display cable.



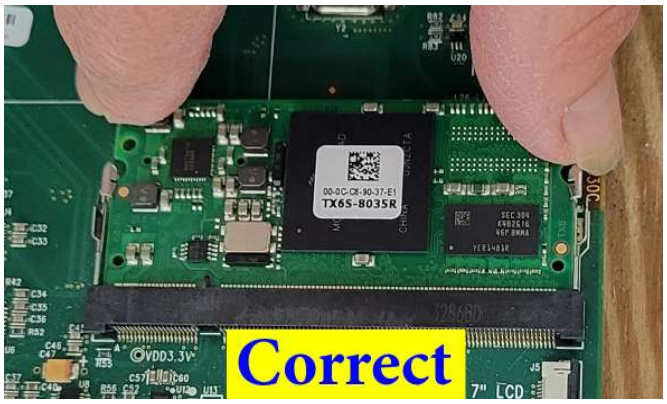
40. Connect the display cable into (J24 12” TX28) connector, **RED** rectangles.

41. Obtain the X4 (TX6S) Module from the kit.
42. Set **Correct Alignment** will have equal spacing between the Module and the socket, **BLUE** arrows.
43. Set **Incorrect** alignment Module to socket will damage the Module and Baseboard, **BLUE** arrows.

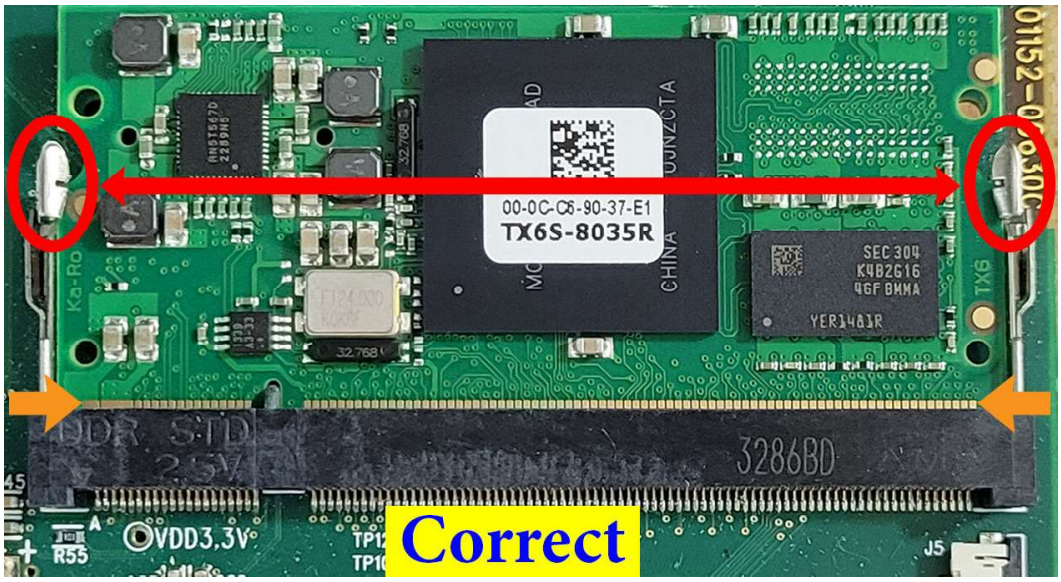
44. Hold the corners of the Module in **Correct** position and insert into the socket.



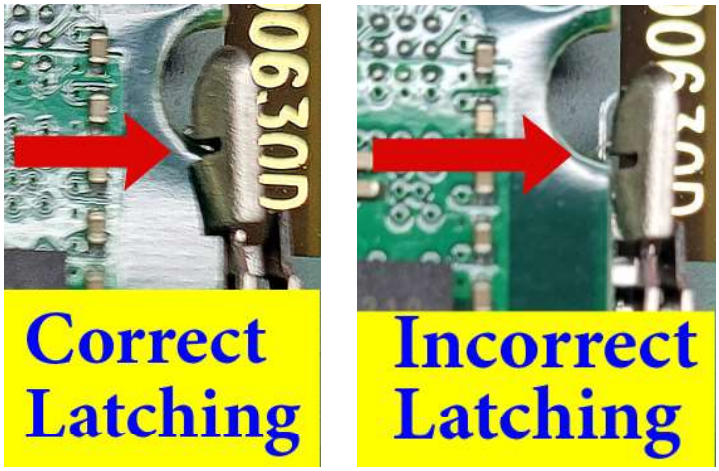
45. A **Correct** finger placement on the Module corners before pressing the Module into the clamps.
46. An **Incorrectly** finger placement on the center of the Module will damage the memory components.



47. Visually inspect the Module is seated properly in the socket. The clamps, **RED** ovals, hold the Module in the socket. **ORANGE** arrows shows equal height of gold pins shown.

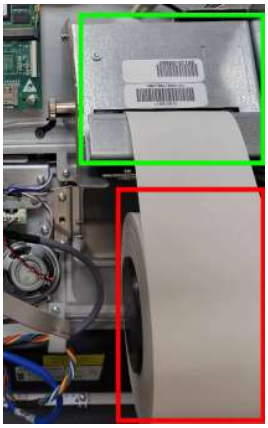


48. A Close up of the socket clamps **Correct Latching** to the Module board.
49. A Close up of the socket clamps **Incorrect Latching** to the Module board.



50. An **Incorrect Alignment** will result when one side of the Module does not seat properly. As in the image below. Top **RED** arrow shows socket clamp latched Incorrect. Bottom **RED** arrow shows gold pins seated Incorrect. The top **WHITE** arrow shows socket clamp latched Correct. Bottom **WHITE** arrow shows gold pins seated Correct.

51. If the Module does not easily seat in the socket, remove the module and insert again.
52. Install the Baseboard cover. On the power supply, press the switch to ON (I). The Power-On-Self-Test screen displays Triton CE Application Version 5.0 or higher.
53. Close the print head, if in the open position, **GREEN** box. Insert the paper roll and feed paper to the printer, **RED** rectangles.



54. Return ATM to normal operations.

End of Procedure