

Note No.	SVC-FSB-0034
Release Date	2/11/2016
Contact	ngceoservice@ngc.com

Water Cooled eDrive AIM Assembly Replacement Instructions

Summary

This technical note describes replacing the 86-101-40 assembly in the water cooled eDrive.

Scope

This technical note applies to water cooled eDrives.

Materials and Equipment

- Insulated Phillips screwdriver
- eDrive
- 86-101-40
- Socket head screwdrivers 5/64" & 7/64"
- Nut Driver 7/16"

Contact NGCEO for assistance in obtaining any of these items.

Remove and Replace the AIM assembly

1. Turn off the eDrive.
2. Disconnect all electrical connections to the eDrive.
3. Purge any remaining coolant out of the eDrive
4. Remove the cover from the eDrive
5. Using a Phillips screwdriver, remove the 4 Phillips screws holding the plate onto the back of the eDrive around the coolant ports. See Figure 1 below.

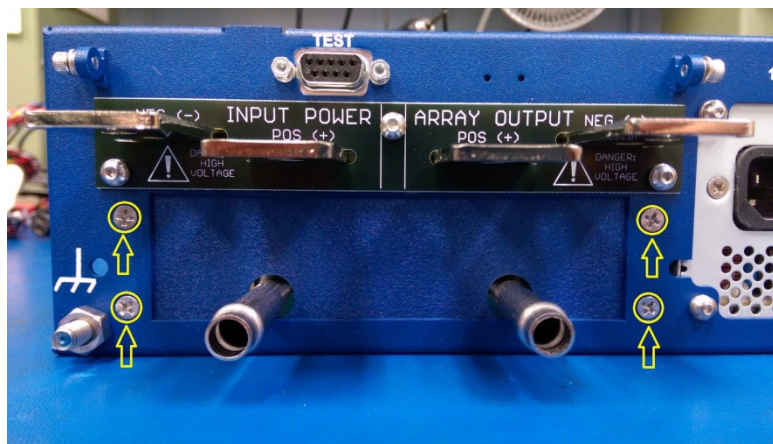


Figure 1: Remove 4 screws.

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- Using a 5/64 socket head screwdriver, remove the 3 socket head cap screws holding the black input and output power label onto the rear of the eDrive. Slide the plate off of the back of the eDrive. See Figure 2 below.

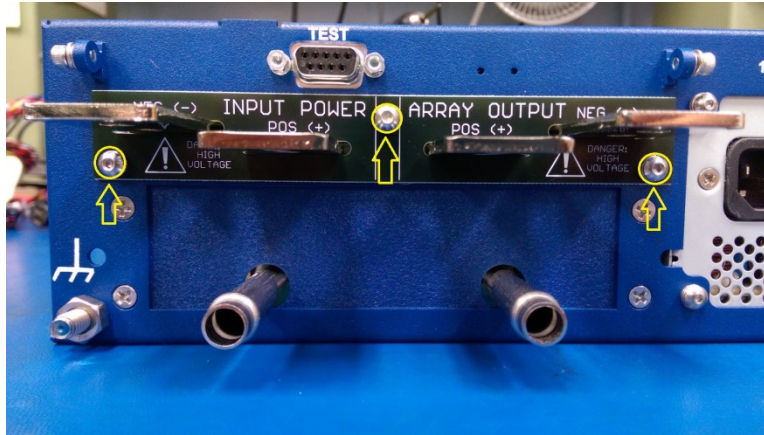


Figure 2: Remove 3 screws.

- Disconnect the 6 connectors from the board. See Figure 3 below.

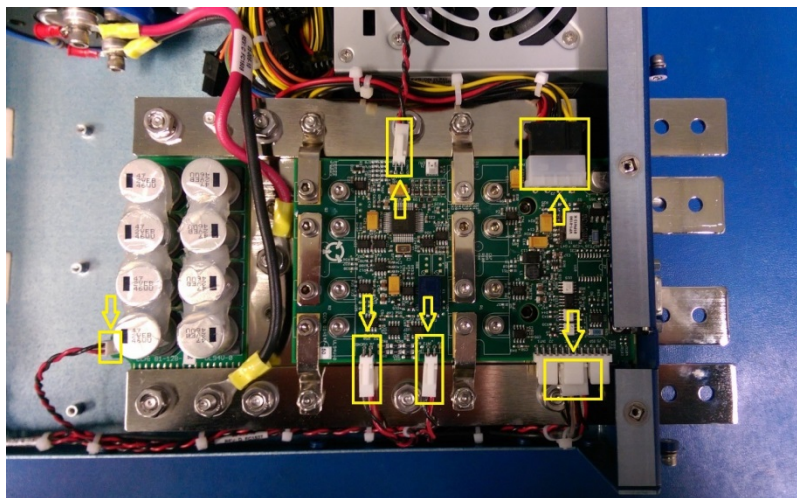


Figure 3: Disconnect 6 connectors.

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8. Using a 7/16 nut driver, disconnect the red and black wires that come from the capacitor to the board. See Figure 4 below.

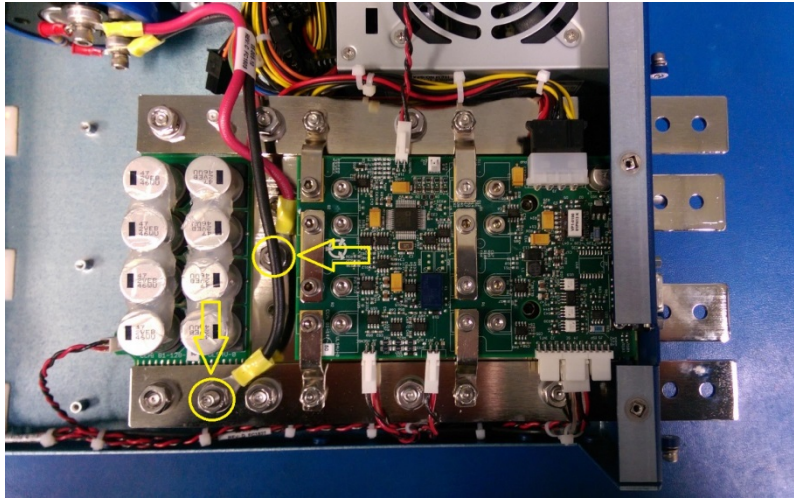


Figure 4: Disconnect 2 wires from the board.

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9. Using a 7/64 socket head screwdriver, remove the 6 socket head cap screws holding the AIM assembly to the floor of the eDrive. See Figures 5 & 6 below.

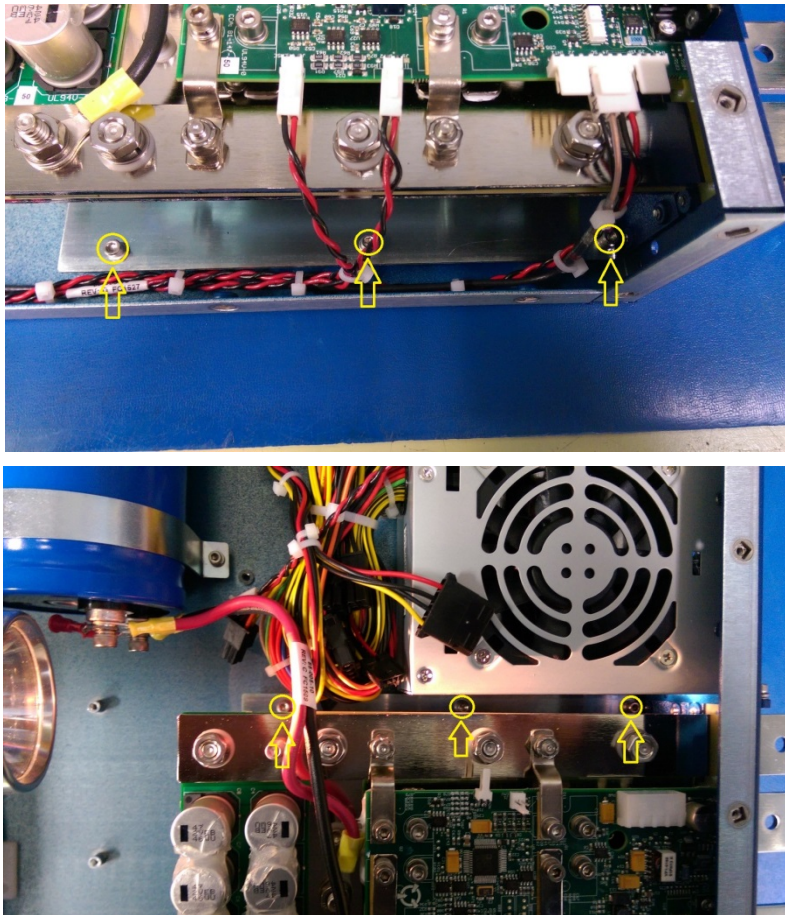


Figure 5 & 6: Remove 6 socket head cap screws

10. Slide the AIM assembly out toward the front of the eDrive.
11. Remove the blue plate off of the coolant ports.
12. Set the fault AIM aside.
13. Slide the blue plate onto the coolant ports of the new AIM.
14. Slide the AIM into the eDrive. Use care to align the coolant ports and the power lugs with the back of the eDrive.
15. Bolt the AIM assembly to the floor of the eDrive with the 6 socket head screws. See Figures 5 & 6.
16. Reconnect the wires from the capacitor to the board. See Figure 4.
17. Reconnect the 6 connectors to the board. See Figure 3. All connectors should be labeled.

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18. Reattach the black input and output power label onto the back of the eDrive. See Figure 2.
19. Reattach the blue panel back onto the eDrive around the coolant ports.
20. Replace the cover.
21. Attach cables.
22. Power eDrive and begin normal operation.