

SERVICE BULLETIN

NORTHROP GRUMMAN

Note No.	SVC-FSB-0052
Release Date	4/19/2018
Contact	ngceoservice@ngc.com

eDrive TINI Card Replacement and Remote Battery Board Installation Procedure (2U)

Summary

This technical note describes the process for replacing the TINI card and installing the remote battery holder for the large battery.

Scope

This technical note applies to the 2U eDrive.

Materials Needed (TINI Card & CR2477 Battery Installation)

- 81-214-10 Remote Battery Holder with Battery For TINI Card Circuit Assembly
- 86-214-10 TINI Card with 24" lead.
- 85-174-40-24, 2 Pin Connector with 24" lead (1 each)
- SHCS #6 x 1/4" (2 each)
- #6 Flat Washer (2 each)
- #6 Lock Washer (2 each)

Tools and Equipment Needed

- 7/64" Hex Ball Driver
- Phillips® Head Screwdriver

Safety Warnings



CAUTION. Electrical shock hazard. Before servicing the eDrive, make sure that the AC power cord and external power supplies are disconnected. Damage to personnel may result, including death. Damage to equipment may result.



ESD: HANDLE APPROPRIATELY.

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CAUTION: Safety glasses should be worn at all times when soldering.

1. Turn off and unplug the eDrive.
2. Remove the top cover from the eDrive by removing the 22 Phillips®-head attachment screws.
3. Remove the TINI circuit board from the main control board. The board is secured in the socket using two retaining clips. Gently press outward on the clips to release the board.

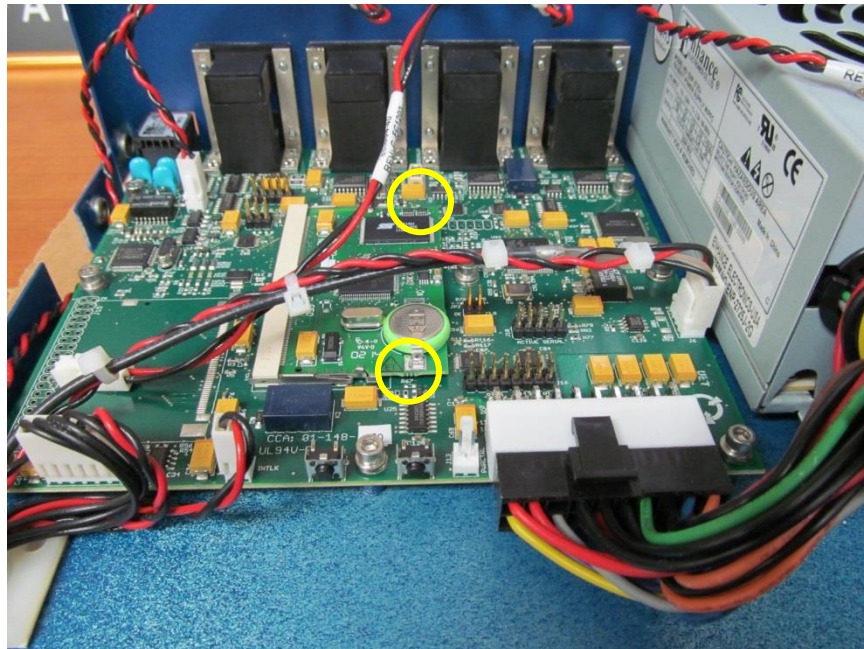


Figure 1: TINI Circuit Board Clip Locations

4. The replacement TINI card and remote battery board will arrive packaged together in an ESD bag and connected via a red and black cable. Open the ESD bag and remove the TINI card and large battery board.
- **DO NOT DISCONNECT THE BOARDS FROM ONE ANOTHER.**
 - **DO NOT PLACE THE BOARDS ON A CONDUCTIVE SURFACE.**

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5. Install the replacement TINI circuit board. Place the grooved golden edge of the board into the socket at an angle. Once seated into the socket, press down on the opposite edge to engage the retaining clips.
6. Locate the Remote Battery Holder circuit card assembly as shown in **Figure 2**. Use (2) SCHS #6 x 1/4" with lock and flat washers to hold in place.

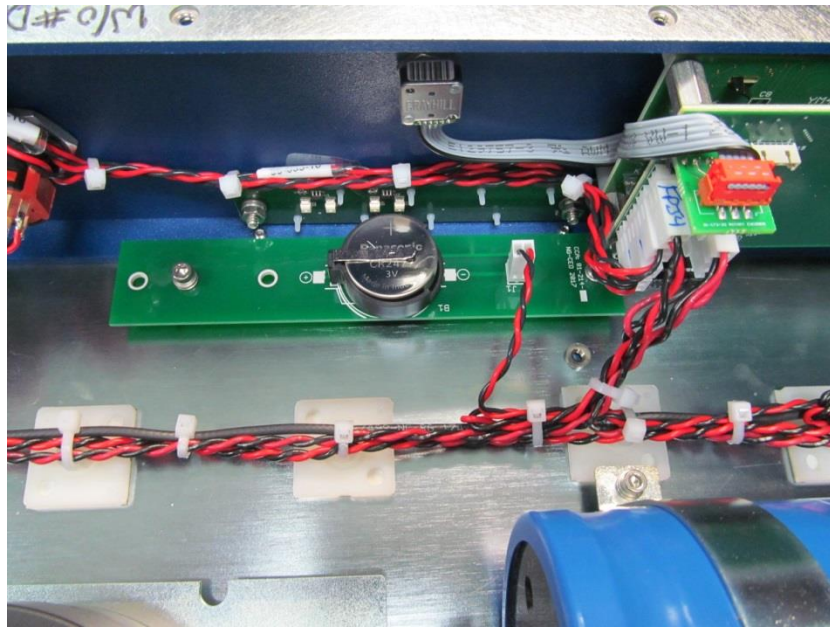


Figure 2: 2U Remote Battery Holder Circuit Card Assembly Location

7. After installing the Remote Battery Holder circuit card assembly, use wire ties to secure the wires between the RAM battery circuit card and the TINI card.
8. Reinstall the top cover.
9. Plug in and power up the eDrive.