

Note No.	SVC-FSB-0015
Release Date	01 April 2014
Contact	ngceoservice@ngc.com

eDrive Trigger Out Modification

Summary

The standard 2U eDrive does not ship with the trigger output installed. This technical note describes the part and procedure needed to retrofit already-fielded units with the feature.

Scope

This technical note is only for the eDrive (2U). It does not apply to the eDrive Nitro (4U).

Parts and Equipment Required

The modification requires the following part and equipment:

- A #2 Philips screwdriver
- A wrench
- A cable, part number 85-004-40, available from NG CEO

Contact NG CEO to request a quote for the cable.

Removal and Replacement Procedure



ELECTRICAL WARNING The voltages in the eDrive can be harmful or even lethal. Disconnect the power cord to the eDrive before servicing. Use a voltmeter to verify all electronics are discharged before touching or grounding of electrical connections.

Please use proper ESD prevention measures whenever possible. Utilize the services of a qualified electronics technician or engineer to perform the service. NG CEO will install the modification for you if you wish. Please contact NG CEO to make necessary arrangements.

1. Remove all 22 screws around the perimeter of the eDrive top cover.
2. Remove the top cover by lifting it gently off the chassis.
3. Remove the black plastic plug from the rear panel of the eDrive Trigger Out connector site.
4. Feed the cable through the Trigger Out hole from the outside of the chassis.
5. Slip the fastening hardware onto the cable from the inside and secure. Do not over-tighten as the threads of the plastic housing may be damaged.
6. Locate the J18 connector on the SC. Place the white trigger cable onto pins 1 and 2 of J18. Pin 1 is pointed to by a white triangle printed on the board. Note that the protrusions of the white trigger connector face the center of the connector. Refer to the figure for details.
7. Remount the cover to the chassis.

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8. Reinstall the 22 screws to secure the cover.

The BNC Trigger Out signal now mimics the Q-switch Trigger Out signal. The polarity of the signal can be controlled via the menu **Interface Setup > Q-Switch Setup > Trigger Active High/Low** but only when Emission is off.

