

Note No.	SVC-FSB-0021
Release Date	4/2/2014
Contact	ngceoservice@ngc.com

## eDrive Rotary Encoder

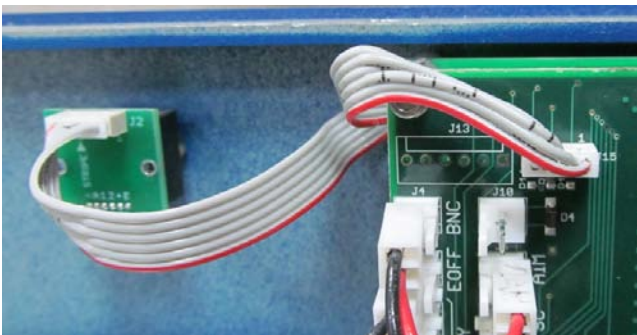
### Summary

In 2011 the original rotary encoder used on the eDrive front panel became unavailable. The new rotary encoder includes a connector that is not compatible with the original front panel connector. A connector adapter circuit card is used to connect the new rotary encoder to the front panel circuit card. R14 and R15 are added to complete the electrical circuit.

### Scope

This technical note applies to all eDrives: 2U, 4U, CW and QCW

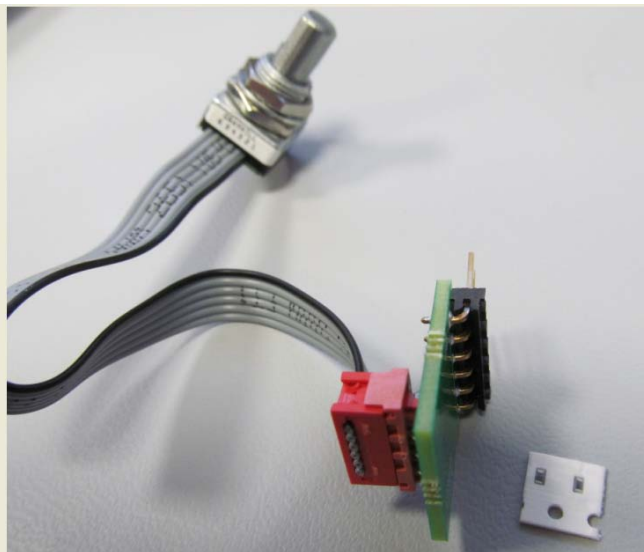
### Rotary Encoder



**Original eDrive Rotary Encoder.**

J13, R14, R15 (under J15) were not populated.

This rotary encoder became unavailable in 2011, and was replaced by the 81-173-20 kit.

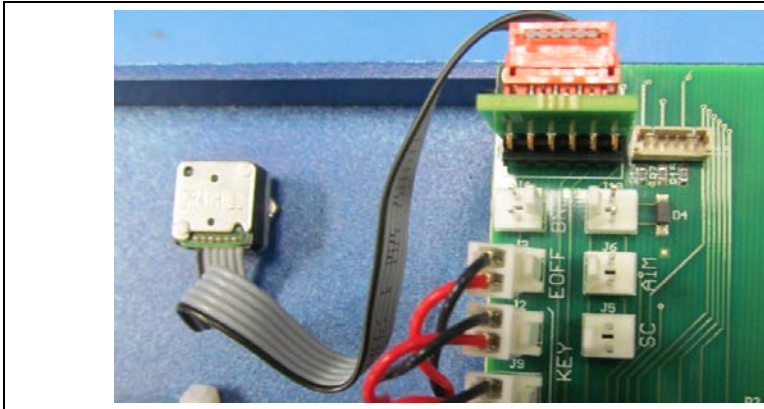


**81-173-20, ASM, ROTARY ENCODER W.BOARD,ROHS**

This kit can be used on any eDrive to replace the original rotary encoder that is no longer available.

The connector adaptor must be soldered on the eDrive front panel. Surface mount resistors R14 and R15 must be soldered on the front panel.

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### 83-173-20, NEW ENCODER W. FT PNL BRD,PROG

The kit includes both the 81-173-20 rotary encoder with board, and the 81-158-50 CCA Front Panel eDrive. This is a kit that installs the connector adapter and the two resistors from the 81-173-20 kit on the front panel circuit card. The front panel CCA is programmed to be compatible with the Software VDD of the specific eDrive. Soldering is not required, but front panel programming is required.