



Subject: Gen2 Electronic Clutch Actuator (ECA) Release

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Description: The new Gen2 ECA is being released to production.

The Gen2 ECA introduces a new motor with Deutsch Connectors, and a redesigned shield that surrounds the ECA. The new shield maintains protection for the ECA while enhancing connector accessibility. It also allows for direct, straight alignment of the connector and harness thus eliminating potential side loading of the connector by the use of a separate harness retention bracket mounted directly the to the ECA. Two tie-wrap locations on the harness retention bracket are provided to secure the power harness as it is routed in the vehicle.

An all-aluminum enclosure provides improved reliability through enhanced sealing capabilities. The new connectors provide positive locking features with a secondary lock system to improve connection integrity.



Gen2 ECA (New)



Gen1 ECA (Old)



New Deutsch Connectors



Gen1 Packard Connectors

Models Affected: UltraShift *PLUS*, Fuller Advantage Automated and Hybrid Transmissions

Timing:

The Gen2 ECA is being released to OEM Production and will be available to all Eaton OEMs upon full launch along with Aftermarket parts.

Installation Effects:

OEM Harness

- The Gen2 ECA requires Deutsch OEM power harness connector.
- Eaton will provide a power adaptor harness to connect the Gen2 ECA to an existing OEM power harness. The adaptor harness is not required if the OEM power harness has been changed to mate with the Gen2 ECA connector.

Transmission Harness

- The Gen2 ECA requires Deutsch transmission harness connector.
- Eaton has released new transmission harnesses that connect directly to the Gen2 ECA. The Gen2 transmission harnesses are used in new production and available as a service part.
- Eaton will provide a transmission adaptor harness to connect the Gen2 ECA to an existing transmission harness. The adaptor harness is not required if the transmission harness has been changed to mate with the Gen2 ECA connector.

ECA Shield

- Eaton has released a new ECA shield for the Gen2 ECA. The Gen2 shield is used in new production and will be available as a service part.

PTO

- The installation of the Gen2 ECA may interfere with some 8-bolt countershaft PTO models. A Service Bulletin is being created to communicate the interference details and repair strategy.

Service Strategy:

Eaton will offer service kits to support Gen1 to Gen2 ECA replacement along with Gen2 to Gen2 ECA replacement.

Visit the Roadranger Electronic Parts Catalog for service part information.

<http://www.inforanger.roadranger.com/index.aspx>

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