

FLA COE
FLB COE
FLD Conventional
Business Class
FLC 112 Conventional

Century Class Conventional
Argosy
Cargo
Columbia
122SD and Coronado

Business Class M2
Cascadia
108SD/114SD
> New Cascadia

Freightliner
Service Bulletin

General Information

A new line of transmissions will be available in the Freightliner vehicles at the beginning of April 2020. The Eaton-Cummins Endurant is a manual transmission that uses compressed air for shifting and clutch actuation. It also requires a specific clutch assembly that is different than the current Eaton product line.

For the detailed transmission service, go to the Roadranger website at www.roadranger.com. Select 'Support' and open the drop down menu to select 'Literature Center.' Continue using the drop down menu to find 'Transmissions', then select 'Heavy Duty Automated Transmissions'. Select the *Endurant manuals* from the list.

Transmission and clutch removal and installation instructions will be available for applicable vehicle model service documentation through DTNAConnect when published.

Parts

An initial list of repair parts are documented in PartsPro® through DTNAConnect. The list will be expanded when the product fully develops in the Freightliner network. Endurant service parts and kits are included in the Endurant Service Manual (TRSM0950). This is the primary source for repair information. Parts will be available through the parts distribution centers (PDCs). If the required part for a specific repair is not shown in PartsPro or the *Endurant Service Manual*, contact the Roadranger help line.

Troubleshooting

The Roadranger help line will provide technical support for the transmission and the DTNA call center will provide support for the chassis. Support responsibility is based on the source of the fault, not on the symptom. If there is doubt as to which party is responsible, contact the Roadranger help line first.

Training

Eaton-Cummins provides training support for dealers with certified Endurant technicians; dealers without certified Endurant technicians must contact the Roadranger Academy for training options.

Tools

A dedicated set of tools are available to support every serviceable part of the transmission. The following list is considered the minimum level required to support DTNA customers. It is recommended that all the tools listed below be available at every dealer location. It is also recommended that each dealer reviews the list of available tools and repairs, and decide which tools make sense to have on hand to support customers in a timely fashion.

The complete selection is maintained in the Endurant Service Manual (TRSM0950), and is available for purchase through K-Line Industries. See [Table 1](#) and [Table 2](#).

Minimum Level Service Tools List	
Tool Description	Tool Number
Transmission Jack Adapter Plate, or equivalent	RR1067TR
Clutch Installation Tool Kit	RR2000CL
Alignment Pins	RR1063TR
Clutch Alignment Shaft	RR1087TR
Stand-off Bolts	RR1063TR-4
Wear Sleeve Installer	RR1061TR

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Minimum Level Service Tools List	
Tool Description	Tool Number
Input Shaft Pilot Bearing Wear Sleeve Puller	RR1062TR
Mechanical Diagnostic Kit	RR2011TR
Rail B Engagement Tool	RR1088TR
MTM Alignment Tool	RR1086TR-1
Confirm-Neutral Gauge	RR1086TR-2
20-Way Eaton Diagnostic Adapter	RR1030TR
3-Way Eaton Diagnostic Adapter	RR1060TR
Output Seal Driver (adapter) or Transmission Output Shaft Seal Driver Kit	RR1001TR-8

Table 1, Minimum Level Service Tools List

(RR1001TR) – The adapter requires Output Seal Driver Handle (RR1001TR-2), which is required for other Eaton products. If the driver handle is not on hand at your location, purchase the Transmission Output Shaft Seal Driver Tool Kit (RR1001TR) to get the seal driver and handle.

Expanded Level Service Tools	
Tool Description	Tool Number
Countershaft Pilot Tool, Lower	RR1071TR
Countershaft Pilot Tool, Upper	RR1072TR
Range Assembly Removal and Installation Tool	RR1065TR
Eaton Breakout Box with 74-Way Eaton Diagnostic Adapter	RR1029TR
Input Shaft Cup	RR1087TR-6
Overhaul Tool Kit	RR2012TR
Input Shaft Bearing Removal and Installation Tool	RR1075TR
Countershaft Bearing Installer	RR1076TR
Main Shaft Bearing Installer	RR1077TR
Output Shaft Installer/Input Shaft Seal Driver	RR1070TR
Universal Driver Handle	OE8044-T0
Rear Housing Stand	RR1069TR
Input Shaft Stand	RR1073TR
Overhaul Tool Kit #2	RR2013TR
Rear Alignment Pins (2)	RR1090TR
Output Bearing Install and Removal Tool	RR1089TR
Reaction Plate Install and removal Tool	RR1091TR
Input Bearing Driver	RR1049TR

Table 2, Expanded Level Service Tools

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Warranty

This is an informational bulletin only; warranty does not apply.