



Subject: Endurant Transmissions Transmission Control Module Replacement

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Issue Description:

When a new Transmission Control Module (TCM) is installed both the transmission serial number and MTM serial number must be entered into the TCM using ServiceRanger. If it is not entered, and a future repair or warranty decision requires Service Activity Report data analysis, it is very difficult and time consuming for Eaton Cummins Automated Transmission Technologies engineering and Eaton warranty groups to find the information needed to resolve the matter.

When a TCM is replaced several calibrations must be performed in order for calibration specific fault codes to clear and vehicle performance to be optimized. When this does not occur, fault codes are set and the technician may perform unnecessary troubleshooting.

Affected Models/Population:

Endurant Transmissions

Field Strategy:

Step A: Create a Service Activity Report with ServiceRanger

Note: If a Service Activity Report (SAR) was already created during this service event, go to **Step B**.

Step B: Transmission Control Module (TCM) Removal and Installation

1. Reference TRSM0950 Service Manual and perform Transmission Control Module (TCM) Removal and Installation Service Procedures. Go to **Step C**.

STEP C: TCM Initialization

Note: Refer to Service Activity Report (SAR) created prior to replacing TCM for the following steps. If a SAR was not created prior to TCM replacement contact Roadranger Call Center 1-800-826-HELP(4357).

1. Key on with engine off.

Note: Vehicle display may indicate a flashing “F”, “CC”, or service transmission.

2. Connect ServiceRanger.
3. Go To “Configuration”.
4. Select “Identification”.
5. In the “Serial Number” parameter “New Value” field enter the transmission serial number.

Note: Refer to SAR, locate and enter indicated “Serial Number”, if “Unspecified” is indicated, locate and enter indicated “Original Trans Serial Number”.

6. In the “Current MTM Serial Number” parameter “New Value” field enter the MTM serial number.

Note: Refer to SAR, locate and enter indicated “Current MTM Serial Number”, if “Unspecified” is indicated locate and enter indicated “Original MTM Serial Number”.

7. Refer to the SAR and change other configuration parameter settings to match original TCM settings.
8. Select “Apply” and follow on-screen prompts.
9. Key on.
10. Connect ServiceRanger.
11. Select the “Calibration” tab.
12. Select the appropriate OEM vehicle application calibration.
13. Select “Apply” and follow on-screen prompts.
14. Key on.
15. Connect ServiceRanger.
16. Go To “Service Routines”.
17. Select "Start" Grade Sensor Calibration and follow on-screen prompts. Go to **Step D**.

STEP D: TCM Calibration

1. Key on with engine running.
2. Allow air pressure to build to governor cut-off.
3. Connect ServiceRanger.
4. Go To “Service Routines”.
5. Select “Start” Clutch Calibration and follow on-screen prompts.

6. Select “Start” Rail Calibration and follow on-screen prompts.
7. Key off and wait 1 minute.
8. Key on with engine off.
9. Connect ServiceRanger.
10. Go To “Fault Codes”.
 - If an active fault code set, refer to TRTS0950 Troubleshooting Guide.
 - If no active fault code set, select “Clear Eaton Faults” and follow on-screen prompts.
11. Disconnect ServiceRanger.
12. Key off.

Warranty Information:

Informational only.

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