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Roadranger
SUPPORT

Subject: Required TCM Initialization and Calibration after Transmission Replacement - Precision

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Issue Description:

When a new Precision transmission assembly is installed into a vehicle and the original Transmission Control Module (TCM) is installed onto the new transmission, the TCM must be initialized and calibrated to ensure proper transmission operation.

Affected Models/Population:

- EDCO-6F107A
- EDCO-6F107A-P
- EDCO-6F107A-B

Field Strategy:

Perform these steps to complete TCM initialization and calibration:

STEP A: TCM Initialization

1. Key on with engine off.
2. Connect ServiceRanger.
3. Go To "Fault Codes".
4. Select "Clear Eaton Faults" and follow on-screen prompts.
5. Select "Service Activity Report" and create a Service Activity Report.
6. From the "Viewing" dropdown list select "Snapshot".
7. Select "Clear Snapshot".
8. Go To "Programming" and update software if available.
9. Go To "Configuration".
10. Select "Options".
11. In the Serial Number parameter "New Value" field enter the **new** transmission serial number.
12. Select "Apply" and follow on-screen prompts.

STEP B: TCM Calibration Service Routines

1. Key on with engine off.
2. Go To "Service Routines".
3. Select "Start" Grade Sensor Calibration and follow on-screen prompts.
4. If vehicle is equipped with a T-Handle shift device, select "Start" TRS Shift Device Calibration and follow on-screen prompts.
5. Key on with engine running.
6. Complete engine warm-up by running engine at idle speed for 15 minutes.

Note: If Engine Idle Shutdown engine setting is preventing 15-minute idle time requirement, restart engine immediately after shutdown as needed to complete.

7. Use engine high-idle switch or cruise control switch in cab to raise engine idle speed to 950 RPM.

Note: If vehicle is not equipped with high-idle switch or cruise control switch, go to Step 8.

8. Select "Start" Rail Calibration and follow on-screen prompts.
9. Select "Start" Line Pressure Calibration and follow on-screen prompts.
10. Use engine high-idle switch or cruise control switch in cab to lower engine idle to normal idle speed.

Note: If vehicle is not equipped with high-idle switch or cruise control switch, go to Step 11.

11. Select "Start" Clutch Pressure (PI) Calibration and follow on-screen prompts.
12. Select "Start" Clutch Touch Point (PTP) Calibration and follow on-screen prompts.
13. Key off and wait 1 minute.
14. Key on with engine off.
15. Go To "Fault Codes".

- If active fault code(s) is set, refer to TRTS0990 Precision Troubleshooting Guide.
- If no active fault codes, select "Clear Eaton Faults" and follow on-screen prompts.

16. Disconnect ServiceRanger.
17. Key off.

Warranty Information:
Information only

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