

Authorized Field Change



AFC 18905

Date: January 2019

Subject File: Transmission

Subject: Eaton® Procision™ TCM Recal

Model: International® MV™ and DuraStar® model trucks and IC Bus® CE bus models

Start Date: 04/10/2018 End Date: 10/24/2018

Engine Family: N/A

DESCRIPTION

After ignition Key OFF, the Transmission Control Module (TCM) may experience memory loss and may not allow engine restart.

SYMPTOMS

Table 1. Diagnostic Trouble Code(s) and Dashboard Indicator Light(s)

DTC / Light Description	DTC / Light Description
SPN 752 FMI 13	Secondary shift device out of calibration
SPN 629 FM 13	TCM operation 1 out of calibration
SPN 127 FMI 13	Line pressure out of calibration
SPN 583 FMI 13	Grade out of calibration
SPN 6150 FMI 13	Primary clutch operation out of calibration
SPN 6144 FMI 13	Rail A operation – Primary out of calibration

ELIGIBILITY

This procedure applies ONLY to vehicles marked in the International® Service PortalSM with AFC 18905. Check and complete any other open campaigns also at this time.

TOOLS INFORMATION

Table 2. Tools Information

Part Number	Description	Quantity
N/A	EZ-Tech® or EST with Service Ranger 4 Software	1

PARTS INFORMATION

No parts are required for this campaign.

SERVICE PROCEDURE



WARNING: To prevent personal injury, and / or death, or property damage, park vehicle on hard flat surface, turn the engine off, set the parking brake, and install wheel chocks to prevent the vehicle from moving in both directions.



WARNING: To prevent personal injury, and / or death, or property damage, if the vehicle must be raised, do not work under the vehicle supported only by jacks. Jacks can slip or fall over.



WARNING: To prevent personal injury and / or death, always wear safe eye protection when performing vehicle maintenance.



WARNING: To prevent personal injury, and/or death, or property damage, keep flames, sparks, or other heat sources away from the vehicle and do not smoke while servicing the vehicle's batteries. Batteries expel gases which may cause an explosion resulting in personal injury / death, or damage to property, avoid contact with any heat sources.



WARNING: To prevent personal injury, and / or death, or property damage, remove ground cable from negative terminal of main battery before disconnecting or connecting electrical components. Always connect ground cable last.

1. Park vehicle on a flat surface with the wheels straight ahead.
2. Shift transmission to Park or Neutral and set parking brake.
3. Turn vehicle ignition to Key OFF position.
4. Place chocks in front of and behind the wheels.
5. Connect Service Ranger.
6. Create a Service Activity Report (SAR).
7. Review SAR data to verify that two or more of the DTCs listed above are set Active.
 - a. If two or more faults are set active, proceed to Step 8.
 - b. If one fault or zero faults are set active, proceed to Step 9.

NOTE: Open a separate claim section for TCM replacement.

8. Replace TCM. Refer to TRTS0990 Service Manual for TCM removal and installation procedures.
9. Re-connect Service Ranger.
10. Select GO TO > PROGRAMMING.

SERVICE PROCEDURE (CONT.)

11. Update the TCM Software to 5567511.
12. Select GO TO > CONFIGURATION. The Configuration page appears.
13. In the column on the left, select OPTIONS.
14. In the NEW VALUE field for Transmission Serial Number, input the transmission serial number.
15. Change the other configuration parameter settings to match original TCM settings. (Contact Eaton at 1-800-826-4357 for original parameter settings information.)
16. Set START ENABLE TYPE to RELAY.
17. Select APPLY and follow the on-screen prompts.
18. Select the CALIBRATION tab.
19. Select the appropriate OEM vehicle application calibration.
20. Select APPLY and follow the on-screen prompts.
21. Select GO TO > SERVICE ROUTINES.
22. For Grade Sensor Calibration, select START and follow the on-screen prompts.
23. If vehicle is equipped with a T-handle shift device, select START for TRS Shift Device Calibration and follow the on-screen prompts.
24. Start engine and allow it to idle for 15 minutes.
25. Turn ignition to Key OFF position and wait one minute.
26. Turn ignition to Key ON, Engine OFF position and select GO TO > FAULT CODES.

NOTE: If active fault codes are still present, please file diagnostics and repair in a separate claim section.
 - a. If there are active faults, refer to TRTS0990 Precision Troubleshooting Guide for fault resolution.
 - b. If there are no active faults, proceed to Step 27.
27. Turn ignition to Key OFF position.
28. Disconnect Service Ranger.
29. Remove wheel chocks.

LABOR INFORMATION

Operation number must appear on all claims.

Table 3. Labor Information

Operation No.	Description	Time
A40-18905-1	Recalibrate TCM	0.5 hr

ADMINISTRATIVE PROCEDURE

Expense is to be charged to Warranty. Claims are to be submitted in the normal manner, making reference to Authorized Field Change Number 18905.

Section 7 of the Warranty Policy and Procedures Manual contains further information related to the submission and processing of AFC / Recall claims.

As with all claim submissions, items acquired locally must be submitted in the "Other Charges" tab. The cost of any bulk items (such as a bag of cable tie straps, roll of wire, barrel of oil, or tube of silicone) should be prorated for the cost of the individual pieces / amount used during each repair.

To ensure this important improvement is made in a timely manner, all claims for 18905 activity must be submitted by 09 January 2020 or within the normal warranty period for the vehicle, if after 09 January 2020.

GROUP	NOUN	C	WARR.	TP	PAD

GROUP — Enter number ←

NOUN — Leave blank ←

C (CAUSE) — Enter either 1, 2, 3. (See below)

- 1. Inspected (No repair required).
- 2. Inspected and repaired.
- 3. Defective part from parts stock.

WARRANTY — (Warranty Code) Enter 40. ←

TYPE PART — Enter P for type part causing failure. ←

PAD — Enter 100 ←

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