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**Major System:** TRANSMISSION **Created:** 10/22/2018  
**Current Language:** English **Last Modified:** 10/23/2018  
**Other Languages:** NONE **Author:** David Horner  
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Coding Information

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**Title:** Procision Transmission No Start, stuck in gear, and service lamp

**Applies To:** Procision Transmission with TECU SW level 5567510 Procision Trans Feature codes-- 13GBX, 13GBY, 13GBZ, 13GCA, 13GYU, 13GYV, 13GYW, 13GYX

## CHANGE LOG

Please refer to the change log text box below for recent changes to this article:

10/22/2018 - Initial Article Release

## DESCRIPTION

Eaton & Navistar have identified that some customers may experience a service lamp, stuck in gear and no start condition as a result of two or more Active fault codes with FMI 13 (Out of Calibration) in the Transmission Control Module (TCM). The Diagnostic Trouble Codes that apply are listed below.

**NOTE:** The information in this article only applies to units with TCM software version 5567510.

## SYMPTOM(s)

**Diagnostic Trouble Code(s) & Dashboard Indicator Light(s):**

If the condition exists, 2 or more of the following Active fault codes with FMI 13 are set and the TCM software is 5567510, replace the TCM and update software to 5567511 or greater following the diagnostic and repair steps below.

DTC/Light	Description
SPN 752 FMI 13	Secondary Shift Device Out of Calibration
SPN 629 FMI 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

**Customer Observations or Concerns:**

Service Lamp  
Stuck in gear  
No start

**SPECIAL TOOL(s) / SOFTWARE**

Tool Description	Tool Number	Comments	Instructions
EZ Tech		Service Ranger 4	

**SERVICE PARTS INFORMATION**

Kit Description	Part Number	Eaton PN	Notes
TCM ASSEMBLY KIT EDCO-XX107A	FULK4266	K-4266	For use with push button
TCM ASSEMBLY KIT EDCO-XX107A-P	FULK4269	K-4269	For use with shift lever

**DIAGNOSTIC / REPAIR STEP(s)**

1. Confirm concern is present
2. Connect ServiceRanger
3. Create Service Activity report
4. Review SAR data to verify two of more of the DTC's listed above are set Active
5. If 2 or more faults are set active replace TCM. Refer to TRTS0990 Service Manual for TCM Removal and Installation procedures
6. Re-connect ServiceRanger
7. Go to, "Programming" and update TCM Software to 5567511 or later
8. Go to, "Configuration"
9. Select, "Options"
10. Input the Transmission Serial Number Parameter to replace, "New Value"
11. Change other configuration parameter settings to match original TCM settings (Contact Eaton at 1-800-826-4357 for original parameter settings info)
12. Configure, "Start Enable Type" to the value of, "Relay"
13. Select, "Apply" and follow on screen prompts
14. Select, "Calibration" tab

15. Select the appropriate OEM vehicle application calibration
16. Select, "Apply" and follow on screen prompts
17. Go to, "Service Routines"
18. Select, "Start" Grade Sensor Calibration and follow on screen prompts
19. If vehicle is equipped with a T-Handle shift device, select, "Start" TRS Shift Device Calibration and follow on screen prompts
20. Start the engine and allow it to idle for 15 minutes.
21. Key off and wait 1 minute
22. Key on and go to, "Fault Codes"
23. If faults are active refer to TRTS0990 Procision Troubleshooting guide
24. If no active faults, clear Eaton Faults
25. Disconnect Service ranger
26. Repair complete

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## **WARRANTY INFORMATION**

### **Warranty Claim Coding:**

Refer to the [Warranty Coding Manual](#) for Group and Noun Codes.

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### **Standard Repair Time(s):**

Refer to the [SRT Manual](#) for Repair Times

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