



BACKED BY
Roadranger
SUPPORT

Subject: Fault Code 19, 64 and 67 PACCAR Vehicles – UltraShift PLUS and Fuller Advantage Automated Transmissions

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Date: August 10, 2020

Issue Description:

Customers may experience a transmission service lamp and intermittent Fault Code(s) 19 FMI 9, 64 FMI 7 and/or 67 FMI 4 on PACCAR vehicles. When the Fault Code(s) is Active, the driver will not be able to select a gear from Neutral.

Background:

The Momentary Engine Ignition Interrupt Relay (MEIIR) circuit is not required on ECA equipped automated transmissions. The MEIIR circuit may prevent the TECU from initiating an ECA reset procedure and results in Fault Code 64 FMI 7. Electrical failures of the MEIIR circuit may also prevent proper ignition voltage from reaching the ECA resulting in Fault Code(s) 19 FMI 9 and/or 67 FMI 4.

Containment/Corrective Action:

See Field Strategy for containment/corrective action.

Affected Models/Population:

- Peterbilt vehicles
- Kenworth vehicles
 - UltraShift *PLUS*
 - Fuller Advantage Automated
 - SmartAdvantage Automated

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Please utilize table below to determine if vehicle falls within suspect date ranges.

<u>OEM</u>	<u>Date of MEIIR Circuit Removal</u>	<u>Vehicle Model</u>
Peterbilt	4/1/2016	567
		579
		587
	3/30/2016	325
		330
		337
		348
		365
		367
		389
Kenworth	Still Populated	T270
		T370
		T440
		T470
	1/28/2019	C500
		T800
		W900
	1/29/2018	T680
		T880
		W990

Field Strategy:

1. Key on.
2. Connect ServiceRanger.
3. Select "Service Activity Report".



4. Enter vehicle and repair order information and select “Start Report”.

Start Service Activity Report

VIN: XXXXXXXXXXXXXXXXXXXX* Repair Order: XXXXX

Vehicle Owner: _____ Vehicle In-service Date: [15]

Unit Number: _____ Vehicle Vocation: [v]

Odometer: XX,XXX.X Technician: XXXXX

Notes: _____

Start Report Cancel

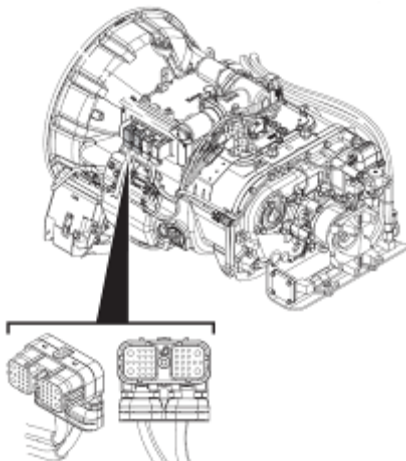
5. After the Service Activity Report completes, select “Send to Eaton”.



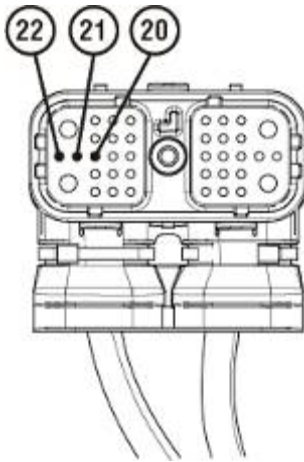
6. Key off.

7. Disconnect negative battery cable.

8. Disconnect 38-Way Vehicle Interface Harness Connector at the TECU.



9. Inspect 38-Way Connector for populated pins 20, 21 and 22.



10. Determine troubleshooting/repair direction.
 - If pins 20, 21 and 22 are populated, perform the instructions outlined below to remove the MEIR circuit from the TECU 38-Way Connector.
 - If pins 20, 21 and 22 are not populated, reconnect all connections and refer to either the UltraShift *PLUS* Troubleshooting Guide (TRTS0940) or Fuller Advantage/Smart Advantage Troubleshooting Guide (TRTS0980) to troubleshoot Fault Code(s) per Fault Code Isolation Procedure Index.

Remove MEIR circuits from 38-Way TECU connector:

1. Remove pins 20, 21 and 22 from the 38-Way Connector using “DEUTSCH Removal Tool” part number, 0411-240-2005.



2. Protect, isolate and secure removed pins 20, 21, 22 and wiring.

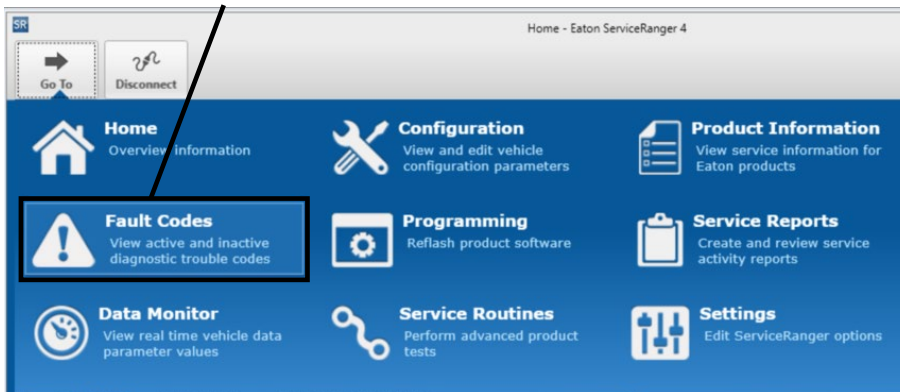
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3. Insert DEUTSCH Seal Plugs part number, 0413-204-2005, in empty pin locations 20, 21 and 22.

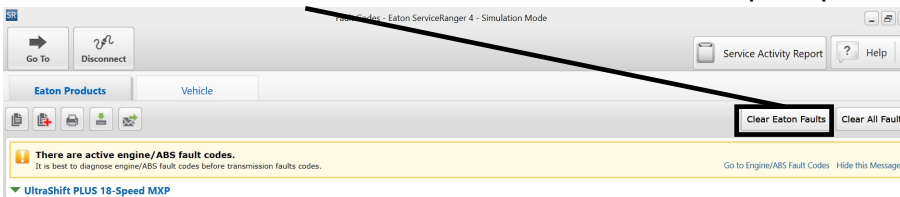
CAUTION: Plug 38-Way Vehicle Interface Harness Connector empty pin locations 20, 21, and 22. Failure to plug empty pin locations results in component damage due to contamination.



4. Connect 38-Way Vehicle Interface Harness Connector and torque the 5/32" hex connector cap screw to 22-28 lb-in (2.49-3.15 Nm).
5. Connect negative battery cable.
6. Key on.
7. Connect ServiceRanger.
8. Go to "Fault Codes".



9. Select "Clear Eaton Faults" and follow on screen prompts.



10. Operate vehicle and attempt to reset the Fault Code or duplicate the previous complaint.
11. Connect ServiceRanger, Go To "Fault Codes".
 - If no Fault Code(s) set and the vehicle operates properly, test complete.

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- If Fault Code(s) set Active during test drive, refer to either the UltraShift *PLUS* Troubleshooting Guide (TRTS0950) or Fuller Advantage/Smart Advantage Troubleshooting Guide (TRTS0980) to troubleshoot Fault Code(s) per Fault Code Isolation Procedure Index.

Warranty Information:

Warranty Parts:

- DEUTSCH Removal Tool 0411-240-2005
- DEUTSCH Seal Plug 0413-204-2005 (Qty 3)

Warranty Labor:

- Diagnostics (1.0 hour)
- TECU Pin Removal (1.0 hour)
- Road Test (0.5 hour)

Warranty Coverage:

Warranty will not cover proactive repairs.

The material contained in this bulletin is product improvement information. Eaton is not committed to, or liable for, canvassing existing products.