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

<table>
<thead>
<tr>
<th>OEM</th>
<th>Date of MEIIR Circuit Removal</th>
<th>Vehicle Model</th>
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**Field Strategy:**

1. Key on.

2. Connect ServiceRanger.

3. Select “Service Activity Report”.

![Service Activity Report Icon]
4. Enter vehicle and repair order information and select “Start Report”.

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.

10. Determine troubleshooting/repair direction.
   - If pins 20, 21 and 22 are populated, perform the instructions outlined below to remove the MEIIR 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 MEIIR circuits from 38-Way TECU connector:

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


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.
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.

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