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# SS 1033219 Eaton Transmission Fault Code 25 Persists on ICU Display

## Eaton Transmission Fault Code 25 Persists on ICU Display

### **Applicable Vehicles**

Any with an Eaton Ultrashift transmission and ICU4Me

(This case study was on a Freightliner 122SD)

### **Symptoms**

Eaton transmission fault code "25" would persist in the ICU display after startup. ICU would also display "88" at startup. No other perceptible operational issues.

### **Case Study**

The DTNA CAC received a call on 122SD SN JP7203 exhibiting the symptom described above.

Eaton fault code 25 means "no faults". An "88" in the ICU display is simply just part of the startup test sequence (to test that section of the ICU display).

According to Eaton's troubleshooting manual, the only way fault code 25 would be display is if the transmission ECU was in diagnostic mode. Entering diagnostic mode requires two cycles of the ignition switch. Therefore, the CAC recommended the following:

*"Researching Eaton's manual for the Ultrashift Plus, it appears the TCU may be entering "product diagnostic" mode. According to the manual, the only way that can be entered is by cycling the key twice. Is it possible we have an intermittent connection in the ignition circuit to the transmission fooling it into this mode? Can we try bypassing that circuit (pin 35 at the TCU) running it directly to a known good power source? I'd like to rule out that circuit as a possible cause. I'd also suggest you load test/voltage drop test the TCU ignition circuit. "*

Dealer technician found the TCU ignition circuit was in fact being interrupted and the ignition switch was found to be the cause.

### **Solution**

Issue was resolved by replacing the ignition switch.

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### Comments



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I had the same issue occur. Root cause for me was a crack in the tcu ign fuse making and breaking contact.

