

TT7546EN
September, 2014
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SUBJECT: 5th Gen Transmission Control Module (TCM) Recalibration for N/V = 0 after Calibrating Tachograph

MODELS AFFECTED: 2000 and 3000 Series Product Family Transmissions

Calibration Details:

Effective July 2014, Allison Transmission released an updated calibration (C142) available for download.

The term N/V is a ratio of transmission output shaft speed (N) and vehicle speed (V) that the TCM uses to monitor and control shift characteristics.

One of the updates in calibration C142 adjusts for N/V = 0 after calibrating the tachograph.

Condition:

During the process of calibrating tachographs, the tachograph calibration tool broadcasts a vehicle speed signal via the communication link. The TCM will interpret this signal as a vehicle moving with no output speed, and it will set the N/V to 0 (zero).

The transmission shift schedule will be set to Performance after calibrating the vehicle tachograph. This is due to the N/V setting going to 0 as a result of recalibrating the tachograph.

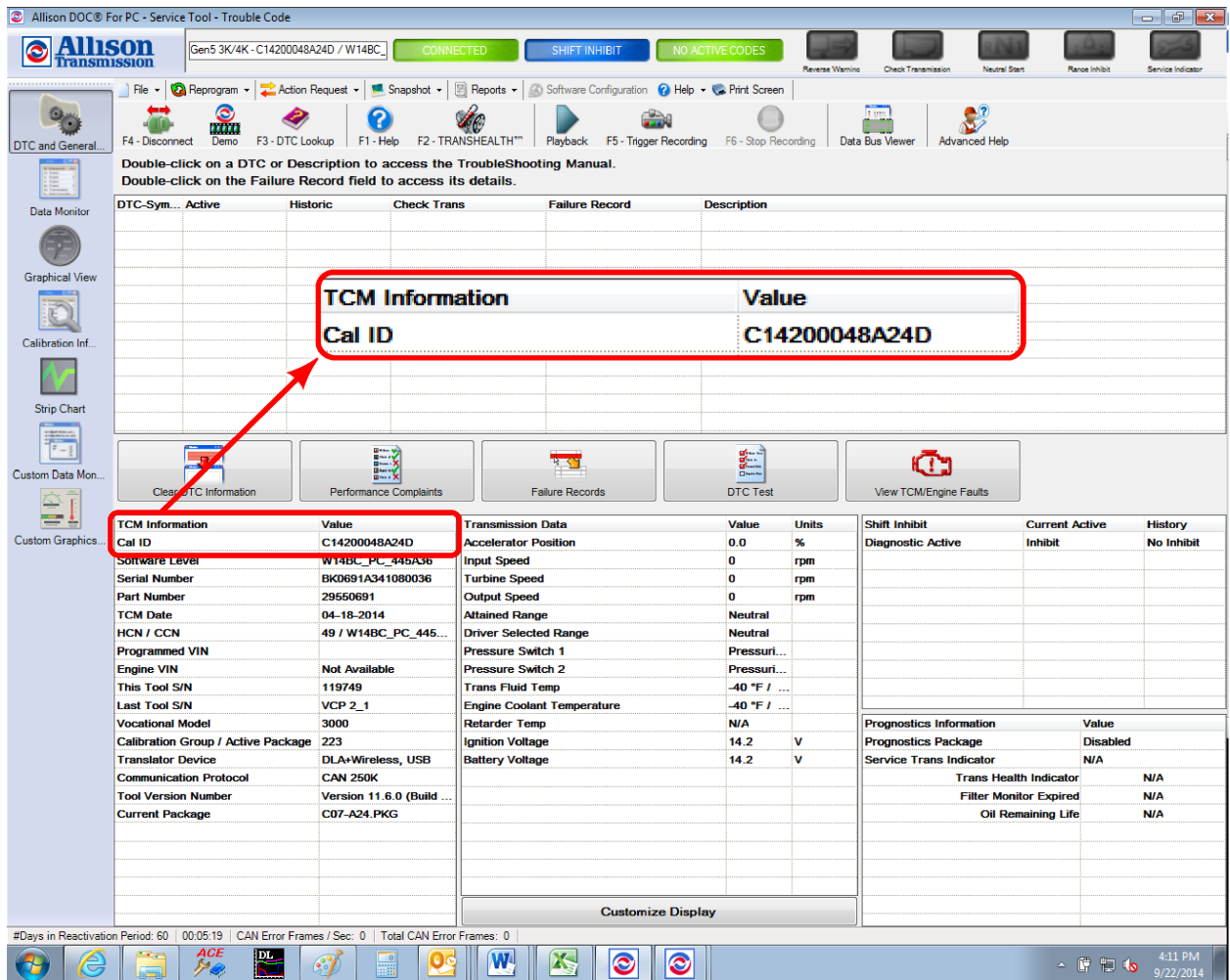
Resolution:

Reflash affected vehicles with calibration C142xxxxxxxxx.

Verification:

To verify that the vehicle is a candidate for recalibration, perform the following:

- Connect to the vehicle using the latest version of Universal Allison DOC®.
- Using Allison DOC®, observe the Calibration ID and verify that the Calibration ID in the vehicle is not C142xxxxxxxxx.



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Figure 1.

- Open TCM Reflash and enter the TCM serial number and download the latest software, calibration C142xxxxxxxxx.

Add Calibration to Download Information

Calibration Information

☒ TCM Serial Number

☐ VIN

Quantity

☐ TCM Assembly Number

☐ Transmission Serial Number

☐ Calibration for Dyno Usage or Stock TCM/ECU

☐ Vocational Model Base Cal Only

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Figure 2.

- Reflash the vehicle using calibration C142xxxxxxxxx and verify that C142xxxxxxxxx was used to flash the TCM.