

43.3 Troubleshooting Flash Code 39, Sid 146, 147/Fmi 2, 12, 7, 14, 11

The following procedure will troubleshoot Flash Code 39.

43.3.1 EGR Related Codes

For all EGR related codes, first refer to "36.3 Exhaust Gas Recirculation System Fault Checks for Series 40 Engines", and perform the steps listed. Performing the basic checks will troubleshoot the components that could be responsible for logging these codes.

If the basic checks do not help resolve the concern, perform Exhaust Gas Recirculation Valve Diagnostics, now in "37.1 Exhaust Gas Recirculation Valve Diagnostics".

If all checks pass, and no fault can be found with the VNT Turbocharger or EGR valve, then it is recommended that the information you have collected be available to discuss with the Detroit Diesel Customer Support Center (800-445-1800).

- Code 3 1467 — occurs if actual EGR rate during DGR mode operation is less than it should be. This fault will lock boost mode operation and illuminate the CEL/AM, for the remainder of the ignition cycle.
- Code 3 1467 — occurs if actual EGR rate during Power Boost mode operation is greater than a calibrated value. This fault will illuminate the CEL/AM, for the duration of the fault being active.
- Code 3 14713 — occurs if actual EGR rate during Boost Idle mode operation is greater than the value. This fault will illuminate the CEL/AM, for the duration of the fault being active.
- Code 3 14717 — occurs if error in actual EGR rate vs desired EGR rate (Actual - Desired) mode operation. This FM signifies excessive EGR flow. This fault will lock boost mode operation. Illuminate the CEL/AM, for the remainder of the ignition cycle if the actual is greater than the desired.
- Code 3 14718 — occurs if error in actual boost vs desired boost during Power Boost mode operation is greater than it should be. This fault will illuminate the CEL/AM, for the duration of the fault being active.
- Code 3 14719 — occurs if error in actual boost vs desired boost during Idle Boost mode operation is greater than it should be. This fault will illuminate the CEL/AM, for the duration of the fault being active.
- Code 3 14714 — occurs if error in actual EGR rate vs desired EGR rate (Desired - Actual) mode operation. This FM signifies low EGR flow. This fault will illuminate the CEL/AM, for the duration of the fault being active.

43.3.2 Verify Repairs

Perform the following steps to verify repairs:

1. Reassemble the engine.
2. Start and run the engine.
3. Perform a road test.
4. Check for logged codes.
 - 4.a For Series 40 engines, refer to "36.3 Exhaust Gas Recirculation System Fault Checks for Series 40 Engines" or call Detroit Diesel Customer Service Center (800-445-1800).
 - 4.b If no codes are logged, repairs are complete.

Flash Code 41 - Missing Trs/Ckp Pulses or Extra Srs/Cmp Pulses

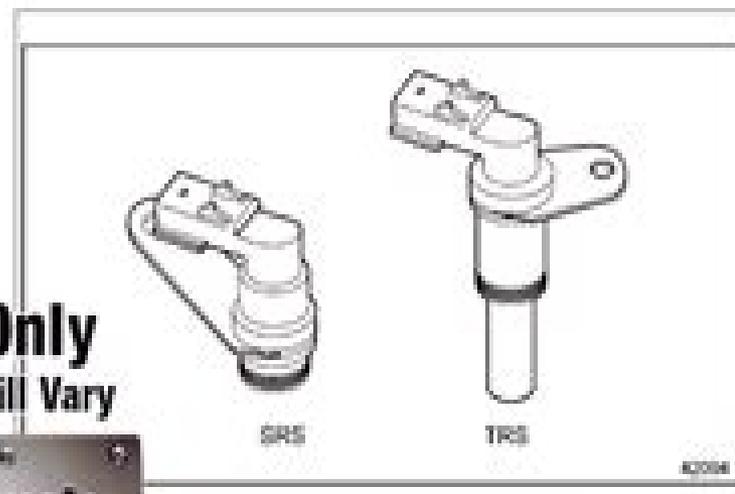


Fig 41-1. SRS-CMP and TRS-CMP Sensors — Series 40

Definition of Flash Code 41

112 (C4E 7-14) equivalent code for Flash Code 41 is 4-015.

Flash Code 41 indicates that the ECM/ECU has detected missing Timing Reference Sensor/Crankshaft Position Sensor pulses, or the ECM/ECU has detected extra Synchro Reference Sensor/Crankshaft Position Sensor pulses. See Figure 41B-CMP and 41A-CMP Sensors — Series 40.

Ddec 5 Troubleshooting Manual

Detroit Diesel Corporation



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