

57 FLASH CODE 57 – J1922 DATA LINK FAULT

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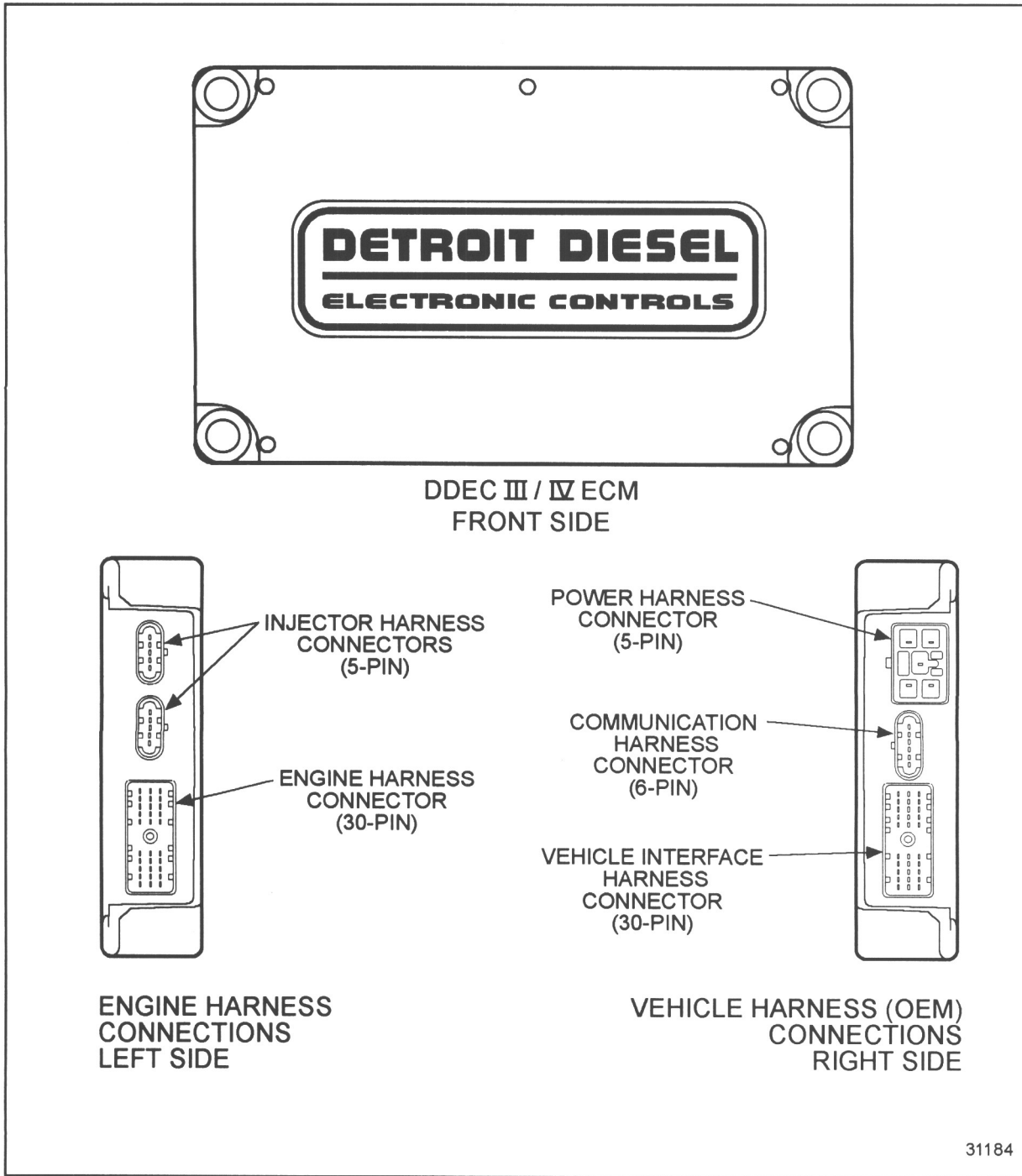


Figure 57-1 ECM

57.1 DESCRIPTION OF FLASH CODE 57

Flash Code 57 indicates that the J 1922 (Low Speed Powertrain) data link is no longer allowing the ECM, see Figure 57-1, to transmit data.

This diagnostic condition is typically:

- Either or both of the data link circuits are open at some point in the network.
- Either or both of the data link circuits are shorted to ground at some point in the network.
- Either or both of the data link circuits are shorted to battery (+) at some point in the network.
- The pair of data link circuits are shorted together.

57.2 SAE J1587 EQUIVALENT CODE FOR FLASH CODE 57

The SAE J1587 equivalent code for Flash Code 57 is s 249 12.

57.3 TROUBLESHOOTING FLASH CODE 57

The following procedure will troubleshoot Flash Code 57.

57.3.1 Code Check

Perform the following steps to check for codes.

1. Turn vehicle ignition switch ON.
2. Plug in the diagnostic data reader (DDR).
3. Visually check the DDR for codes.
 - [a] If flash code 249/12 is logged, refer to section 57.3.2.
 - [b] If no codes are logged, refer to section 9.1.
 - [c] If flash code 254/12 is logged, and no other codes are logged, replace the ECM. Refer to section 9.1.

57.3.2 Verify Codes

Perform the following steps to verify codes.

1. Clear codes with DDR.
2. Start and run the engine for one minute.
3. Check CEL for codes.
 - [a] If CEL is on with code 249/12 displayed, refer to section 57.3.3.
 - [b] If CEL is not on and no codes are displayed, refer to section 57.3.5.

57.3.3 Check for OEM Devices

Perform the following steps to check for OEM devices.

1. Turn vehicle ignition OFF.
2. Determine if any OEM equipment utilizes the J 1922 data link. See Figure 57-2.
 - [a] If no OEM devices are installed, refer to section 57.3.4. Refer to step 2.
 - [b] If OEM devices are installed, refer to section 57.3.4. Refer to step 1.

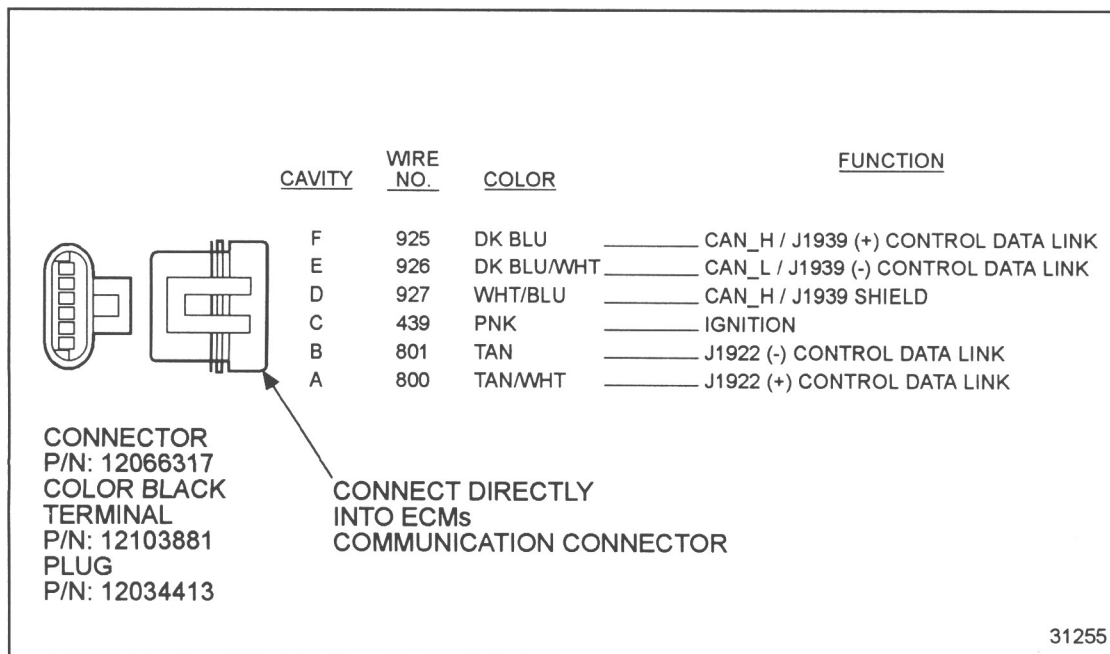


Figure 57-2 Communication Harness

57.3.4 Disconnect Nodes

Perform the following steps to disconnect nodes.

1. Start and run engine with OEM installed devices disconnected.
 - [a] If the disconnect does not solve the problem, continue the procedure. Refer to step 2.
 - [b] If the disconnect solved the problem, Refer to step 4.[a].
2. Connect vehicle interface module using J 41005.
3. Start and run engine.
4. Observe CEL codes.
 - [a] If no CEL or codes are displayed, contact OEM for instructions on how to proceed. Refer to section 57.3.5. Fault is in node/wiring.
 - [b] If CEL is on with code 249/12 logged, install a test ECM. Refer to section 57.3.5.

57.3.5 Verify Repairs

Perform the following steps to verify repairs.

1. Turn vehicle ignition OFF.
2. Reconnect all connectors.
3. Turn ignition ON.
4. Clear codes with DDR.
5. Start and run the engine for one minute.
6. Stop engine.
7. Check DDR for codes.
 - [a] If no codes are displayed, troubleshooting is complete.
 - [b] If CEL is on with code 249/12 logged, all system diagnostics are complete. To troubleshoot the error, refer to section 57.3.1.

