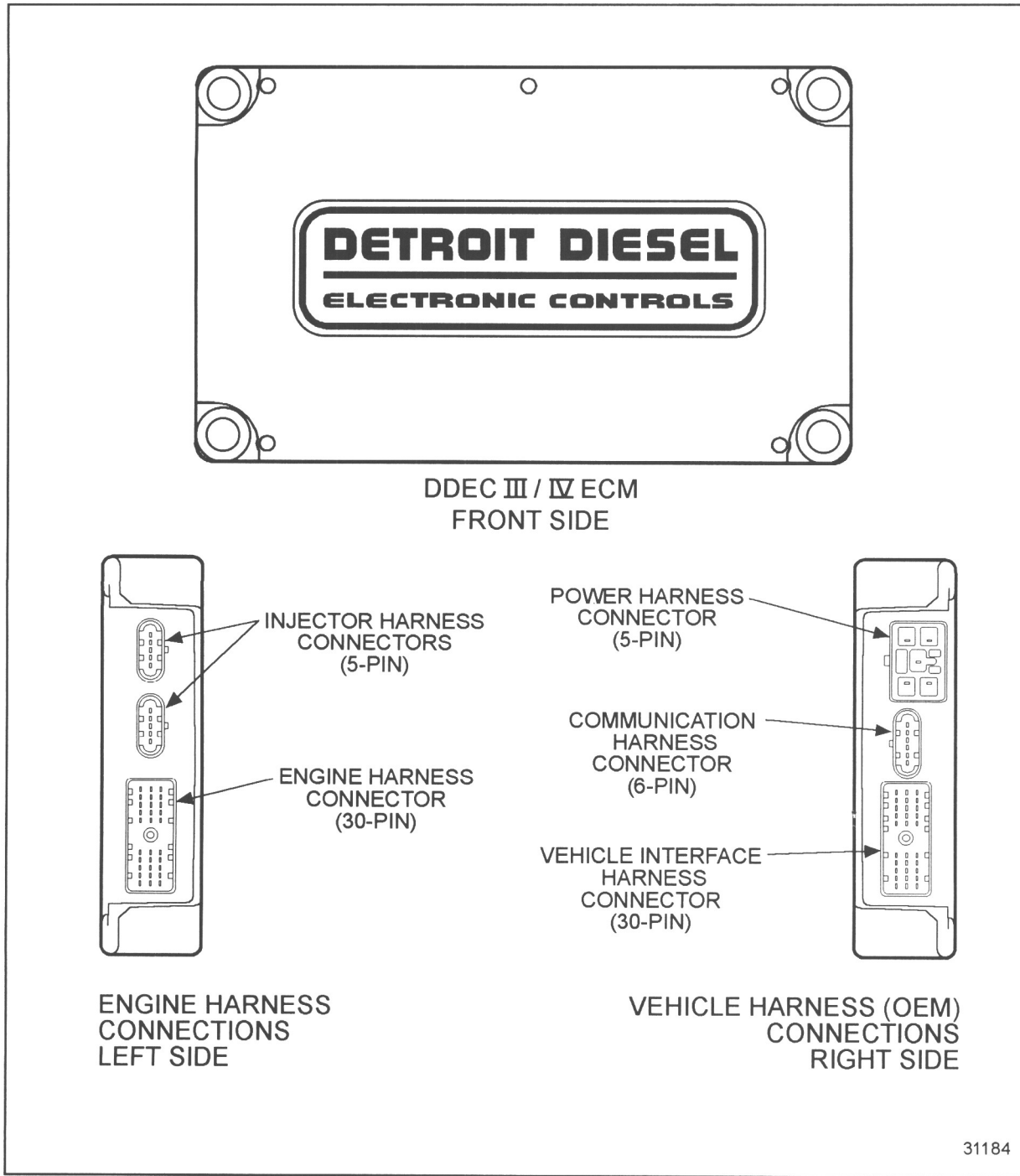


## 56 FLASH CODE 56 – J1587 DATA LINK FAULT

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**Figure 56-1 ECM**

## 56.1 DESCRIPTION OF FLASH CODE 56

Flash Code 56 indicates that the J1587 (diagnostic) data link is no longer allowing the ECM, see Figure 56-1, 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.

## 56.2 SAE J1587 EQUIVALENT CODE FOR FLASH CODE 56

The SAE J1587 equivalent code for Flash Code 56 is s 250 12.

## 56.3 TROUBLESHOOTING FLASH CODE 56

The following procedure will troubleshoot Flash Code 56.

### 56.3.1 Multiple Code Check

Perform the following steps to check for multiple 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 codes other than 250/12 are logged, service them first.
  - [b] If flash codes 250/12 is logged, and no other codes are logged, Refer to section 56.3.2.
  - [c] If no data is logged, refer to section 9.1.

### 56.3.2 Clear Codes

Perform the following steps to clear codes.

1. Clear codes.
2. Start and run the engine.
3. Observe CEL/code.
  - [a] If CEL is on with code 250/12 logged, refer to section 56.3.3.
  - [b] If no CEL code is logged, refer to section 56.3.5.

### 56.3.3 Check for Devices of OEM

Perform the following steps to check for OEM devices.

1. Turn vehicle ignition OFF.
2. Determine if any OEM equipment utilizes the J1587 data link. (ABS, ProDriver®, satellite systems, etc.)
  - [a] If any OEM devices are installed, refer to section 56.3.4. Refer to step 1.
  - [b] If no OEM devices are installed, refer to section 56.3.4. Refer to step 2.

### 56.3.4 Disconnect Nodes (Data Link Devices)

Perform the following steps to disconnect the nodes.

1. Disconnect OEM installed devices, one at a time e.g. ABS, satellite systems, etc. Verify ABS switch is not in "Test" mode.
  - [a] If the disconnect does not solve the problem, continue the procedure. Refer to step 2.
  - [b] If the disconnect solved the problem, go to 4b.
2. Connect vehicle interface module, J 41005.
3. Start and run the engine.
4. Observe CEL codes.
  - [a] If CEL or codes displayed, and the CEL is on with code 250/12 logged, replace the ECM with a test ECM. Refer to section 56.3.5.
  - [b] If no CEL or codes are displayed, contact OEM for instructions on how to proceed. Refer to section 56.3.5.

### 56.3.5 Verify Repairs

Perform the following steps to verify repairs.

1. Turn vehicle ignition OFF.
2. Reconnect all connectors.
3. Start and run the engine.
  - [a] If the CEL or codes are displayed, and if code 250/12 is logged, all system diagnostics are complete. Review this section to find the error.
  - [b] If the CEL or codes are not displayed, troubleshooting is complete.