

53 FLASH CODE 53 – ECM MEMORY FAULT

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53.1 DESCRIPTION OF FLASH CODE 53

Flash Code 53 indicates that the ECM was unable to read a valid copy of an engine data record (calibration, faults, or accumulators) stored in nonvolatile memory.

Flash Code 53 also indicates that the ECM was unable to update an engine data record (calibration, faults, or accumulators) stored in nonvolatile memory.

53.2 SAE J1587 EQUIVALENT CODE FOR FLASH CODE 53

The SAE J1587 equivalent code for Flash Code 53 is s 253 12, EEPROM write fail.

The SAE J1587 equivalent code for Flash Code 53 is s 253 2, nonvolatile checksum incorrect.

53.3 TROUBLESHOOTING FLASH CODE 53

The following procedure will troubleshoot Flash Code 53.

NOTE:

Inactive code 53 should be cleared with the DDR and the unit returned to service if ECM SW is greater than or equal to 7.00.

53.3.1 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. Read active codes.
 - [a] If codes other than 253/12 or 253/2 are logged, service them first.
 - [b] If codes 253/12 or 253/2 are logged, and no other codes are logged, reprogram the ECM. Refer to section 53.3.2.

53.3.2 Test for Codes

Perform the following steps to test for codes.

1. Start and run the engine.
2. Read active codes with DDR.
 - [a] If active code 253/2 is logged, and no other codes are logged, install a test ECM. Refer to section 53.3.3.

NOTE:

It is recommended that a "Test" ECM be tried first to determine the need to replace the ECM. For information concerning ECM replacement, refer to section 2.9 in the service manual.

- [b] If no codes are logged, troubleshooting is complete.

53.3.3 Verify Repairs

Perform the following steps to verify repairs.

1. Start and run the engine.
 - [a] If no codes are logged, troubleshooting is complete.
 - [b] If codes are logged, contact Detroit Diesel Technical Service.