



NVRAM Status - GM Gas & Diesel

EFILive Support - 2021-07-14 - Comments (0) - GM Help

If the NVRAM area of the ECM is corrupted the vehicle may still run, however it may be not possible to read or flash the controller. Typically, if the VIN, Serial number, Hardware number and/or calibration ID do not contain valid data, the controller will need to be repaired to restore full functionality.

An error code received during reading and/or flashing may indicate a NVRAM issue.

To identify if the NVRAM is functional or corrupt:

1. Open the **EFILive V8 Scan and Tune** software.
2. Connect your **FlashScan/AutoCal** device to your PC and vehicle.
3. Turn the vehicle ignition to the **On position**.
4. Navigate to the **[F4: OBD] -> [F2: OBD]** menu option and select the **[Details]** tab.
5. Select your controller(s) by using the **[Auto Detect]** button, or;
 1. Hover over the Engine Controller box, and right click on the "Right-click to select engine-controller" box and manually select the ECM.
 2. Navigate and select the correct controller.
6. Click the **[Read]** button to populate controller data.
7. Where the VIN, Serial number, Hardware number and/or calibration ID either contain all zeros or non-numeric characters, the controller will need to be repaired to restore full functionality.

On Board Diagnostics (OBD)

F2: OBD

F3: Lookup DTC

F4: Lookup OS

Controllers:

Auto Detect

Right-click to select trans-controller

E54

Unknown

Read

Clear

Legend

Progress...

Get E54 L87 Duramax ECM details...

Scanning all modules...

Retrieve SRT Results...

Retrieve DTCs...

Done.

Retrieve Controller(s) OBD Details

Details Tests DTCs VIN Change VAT Relink

Description	Value	Units
Powertrain Control Module (PCM)		
Description	E54 L87 Duramax ECM	
VIN	0; 000y0x=0' 00,0&	
Serial Number	/000A000A000	
Hardware Number	1100349472	
Calibration ID	1012924418	
BCC		
Security Seed	\$DAA4	
Operating System	15189044 (\$0000)	
Engine Operation	15189053 (\$0000)	
Engine Diagnostics	15100899 (\$0000)	
Fuel System	15076354 (\$0000)	
System	15076387 (\$0000)	
Speedometer	15076393 (\$0000)	

Controller repair requires the flash memory chip to be replaced in the ECM. A number of companies can perform this service including SoCal Diesel and Wait4Me Performance.

Related Content

- [Problem Reading a Controller](#)
- [Problem Flashing a Controller](#)