Diesel Particulate Filter (DPF) Lamps

- High Exhaust System Temperature (HEST) Lamp
  **TIER 4 ENGINE ONLY**
- Glow Plug Lamp
  **ECM CONTROLLED ENGINE ONLY**
- Regeneration Inhibit Switch/Lamp
  **TIER 4 ENGINE ONLY**
- Diesel Particulate Filter Lamp
  **TIER 4 ENGINE ONLY**
- Diesel Exhaust Fluid level Lamp (Not Equipped)
- Check Engine Lamp
  **ECM CONTROLLED ENGINE ONLY**
- Stop/Check Engine Lamp
  Consult On Screen Prompt & Engine Manual To Determine Severity Of Fault
  **ECM CONTROLLED ENGINE ONLY**
- LOW FUEL
  **TIER 4 ENGINE ONLY**

**Note:** Please refer to engine manual for further information regarding actions required for ECM Controlled engines & Tier 4 engines.
High Exhaust System Temperature (HEST) Lamp

TIER 4 ENGINE ONLY

Glow Plug Lamp

ECM CONTROLLED ENGINE ONLY

Regeneration Inhibit Switch/Lamp

TIER 4 ENGINE ONLY

Diesel Particulate Filter Lamp

TIER 4 ENGINE ONLY

Diesel Exhaust Fluid level Lamp (Not Equipped)

Check Engine Lamp

ECM CONTROLLED ENGINE ONLY

Stop/Check Engine Lamp
Consult On Screen Prompt & Engine Manual
To Determine Severity Of Fault

ECM CONTROLLED ENGINE ONLY

LOW FUEL

Regeneration Level Lamp - Indicates Status Of Exhaust Temp. During
Passive Regen (R.LOW-R.MED-R.HIGH)

TIER 4 ENGINE ONLY

Note: Please refer to engine manual for further information regarding actions required for
ECM Controlled engines & Tier 4 engines.

Forced Regen Active - RPM raises to 2000RPM 5-20minutes depending on soot load

Soot level is above limit - Park vehicle and Perform forced Regen

Soot Level - low,med,high
Alarms already acknowledged are shown in white text on black. If the engine hours data is available, the list indicates when the alarm was initiated.

When first entering the alarm screen, the list automatically displays the most recent alarm. This screen cannot be exited until all the alarms have been acknowledged by pressing key 3. Alarm messages are automatically cleared from the list when no longer received by the VEM.

**SPN 3719 - usually indicates forced Regen is required**

**Alarm Screen before Alarm Acknowledge**

**Alarm Screen after Alarm Acknowledge**
MENU SCREENS

Top Level Menu

To access the Menu screens, press and hold key 5 while in any of the display screens. Pressing key 5 while in any of the menus will return you to the previous menu. PASSCODE: SEE DEALER/MFG

WARNING: DO NOT MODIFY PARAMETERS WITHOUT AUTHORIZATION - WARRANTY WILL BE VOID
System Menu and Sub-menus

Pin Settings are used to prevent unauthorized users to access the VEM menu. The default pin number is “SEE DEALER/MFG”. Once the pin is changed, the new pin becomes the only pin number that can be used. Factory Reset will reset all the settings to default values. This will also reset the pin settings to the default pin number.

**Note.** If pin is changed, write down the pin in safe location.

**Caution.** If pin number is lost, a complete reload of the VEM software using USB connection is required to access the menu. This reload will restore all default settings and any user changes made will be lost.

**WARNING:** DO NOT MODIFY PARAMETERS WITHOUT AUTHORIZATION - WARRANTY WILL BE VOID.
Tier 4 Engines

The VEM supports not only lamp information for Tier 4 engines but also has the ability to send CAN commands for Forced Regen, Regen Inhibit, and Auto eliminating the need for the physical switch on the dash.

To access the T4 Control, go into Configuration Menu, press Key 1 to scroll to T4 Control, than press Key 4 to access.

Key 1: Change the mode to Forced Regen.
Key 2: Change the mode to Auto. Note. Auto is the default setting.
Key 3: Change the mode to Inhibited.
Key 5: Exit to Configuration Menu.

NOTE: Please refer to engine manual for further information regarding actions required for Tier 4 engines.

If engine has other faults, Regen may not initiate

Find a safe location, place in neutral, apply parking brake
Forced Regen - Hold until HEST Lamp appears
Regen is default Auto - Passive Regen is occurring in the background when the unit is running above idle RPM - avoid excessive idle to prevent premature soot build up Regen Inhibit, and Auto eliminating the need for the physical switch on the dash.

To access the T4 Control, go into Configuration Menu, press Key 1 to scroll to T4 Control, than press Key 4 to access.

**Key 1:** Change the mode to Forced Regen.  
**Key 2:** Change the mode to Auto. Note. Auto is the default setting.  
**Key 3:** Change the mode to Inhibited.  
**Key 5:** Exit to Configuration Menu.

**NOTE:** Please refer to engine manual for further information regarding actions required for Tier 4 engines.