

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



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.

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Regeneration Level Lamp - Indicates Status (LOW-FUEL)
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

in black text on a red background. 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 VEM automatically displays the most recent alarm. Pressing keys 1 and 2. This screen cannot be exited if the alarm has not 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**

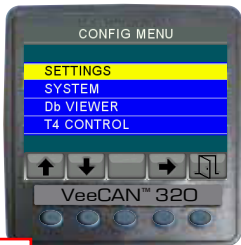


**Alarm Screen
after Alarm Acknowledge**

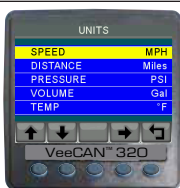
MENU SCREENS

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 0810**

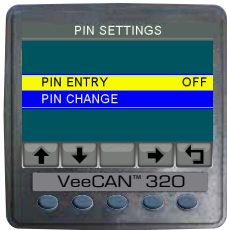
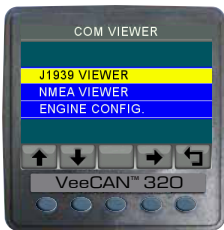


WARNING: DO NOT MODIFY PARAMETERS WITHOUT AUTHORIZATION -WARRANTY WILL BE VOID



**Settings Menu
and Sub-menus**

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.

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Tier 4 Engines



NOTE: Please refer to engine manual for actions required for 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 Configuration Menu, press Key 1, then press Key 2, then press Key 3, then press Key 5.

Find a safe location, place in neutral, apply parking brake

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.

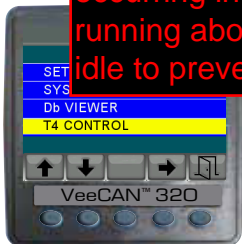
Forced Regen - Hold until HEST Lamp appears

If engine has other faults, Regen may not initiate



Tier 4

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.