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Title: 2010 Dash Cluster Lamp Operation with new DPF Lamp Locations , Functions and Regeneration Instructions

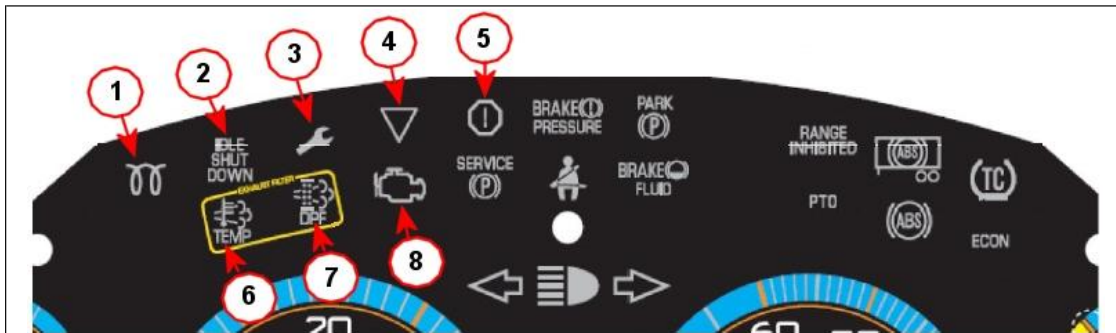
Applies To: 2009.5 , 2009.75 and 2010 AE, BE and CE Bus, DuraStar®, TranStar®, WorkStar®, TerraStar®, and ProStar® trucks with MaxxFace® Engines

DESCRIPTION


(Click Here for the [PDF](#) version of this article)

The lamp locations and operations have changed on the Model Year 2010 dash cluster. Below is a chart that identifies the lamps by location and provides dash lamp operation and details











Also included in this document are the new After Treatment Text Messages in the Dash Message Center , After Treatment Sun Visor Decal Operators Instructions and Parked Regeneration Instructions.







Lamp#	Lamp	Name	Description
1		Wait To Start	Illuminates Yellow when the intake heaters and glow plugs are in operation and special starting procedures are required. Refer to Starting Instruction sin the Operator's Manual
2		Idle Shut Down	Illuminates Yellow to alert driver that vehicle idle shutdown timer will turn engine off in 30 seconds
3		Maintenance Service	Illuminates Yellow used in conjunction with other Warning Lights or General Text and Warning Messages and maybe accompanied by an audible alarm This Lamp illuminates for maintenance items such as Engine Service Interval has been reach (Optional Feature), Windshield Washer Solvent Low (Some Models) and Etc.
4		Warning	Illuminates Yellow. Used in conjunction with other Warning Lights or General Text and Warning Messages to indicate an Alert condition to the operator .This lamp in an indication that a fault has been detected in one or more controllers: Transmission controller, Multiplex electrical controller (Body Controller) , Cluster, Brake Controller and other connected controllers. Use the appropriate Diagnostic software to view the Diagnostic Trouble Codes (DTC).
5		Stop Engine	Illuminates Red Used in conjunction with other Warning Lights or General Text and Warning Messages to indicate a red STOP alert . This alert may be an indication of a serious problem has occurred. The Engine may derate or Shutdown soon. Pull the vehicle safely off the roadway, turn on flashers, set park brake, place warning and Shut Off the engine. Seek service immediately.
6		High Exhaust Temperature (HEST)	Illuminates Yellow when exhaust system components are operating under normal conditions and exhaust gases are at high temperatures . This is normal operation when the aftertreatment system is in active or passive regeneration.
7			Yellow (Solid or Flashing) to indicate the need to regenerate the Diesel Particulate Filter. Operators should follow the instructions on the Sun Visor Decal. See the Regeneration Instructions listed below.






		Diesel Particulate Filter (DPF)	
8		Malfunction Indicator Lamp (MIL)	Illuminates Yellow .The Malfunction Indicator Lamp (MIL) alerts the vehicle operator by illuminating when improper emission related functionality is detected . This lamp is used in conjunction with other Warning Lights or General Text and Warning Messages. Technician can retrieve diagnostic trouble codes to determine cause

New After Treatment text messages now available in the Dash Cluster Message Center:















	→		Parked Regen is Active. This message will display if all regeneration conditions are met and the Parked Regen Switch is enabled.
Regeneration is Inhibited	→		Parked Regen is Inhibited. This message will display after the Parked Regen switch is press and one of the parked regen conditions are not met. See Parked Regen instructions below.
 Or  Solid Or Flashing	→	 ↔ Scroll ↔ 	Parked Regen is Required. See Sun Visor Decal for instructions or Regen instructions below
Regeneration Inhibited Low Engine Temp	→		Parked Regen is Inhibited due to low Engine Temperature. See Instructions Below.
	→		Parked Regen Inhibit Switch is Enabled (Active) This switch will inhibit a Parked or Active Regen.

After Treatment Regeneration Sun Visor Instructions:

EMISSION SYSTEM INSTRUCTIONS			
 LEVEL 1	 LEVEL 2	 LEVEL 3	 Exhaust System Temperature is HOT
Exhaust filter regeneration required. Drive on highway at highway speeds OR start *Parked Regeneration to prevent loss of engine power.	Exhaust filter is full. Pull vehicle safely off roadway and start *Parked Regeneration to prevent loss of engine power.	Exhaust filter is full, Engine performance LIMITED. WARNING: Pull vehicle safely off roadway and start *Parked Regeneration to prevent engine stopping.	WARNING: Exhaust components are operating under normal conditions and exhaust gases are at extremely high temperatures. When stationary, keep away from people and flammable materials, vapors, or structures or STOP ENGINE.
*See Operator's Manual for Further Details			
WARNING: When performing *Parked Regeneration, make certain vehicle is safely off roadway and exhaust system is away from people, or any flammable materials, vapors, or structures. Parked Regeneration may increase engine speed. WARNING: Failure to follow these instructions may result in a loss of engine power, vehicle speed, increased exhaust temperatures, and may cause an accident or fire resulting in property damage, personal injury, or death.		WARNING: A serious problem has occurred, Engine may SHUTDOWN soon. Pull vehicle safely off roadway, turn on flashers, set park brake, place warning devices, and STOP ENGINE. Seek service immediately.	

Lamp	Level	Condition	Action
 Solid	Level 1	Exhaust Filter regeneration is required	Drive on highway at highway speeds or start Parked Regeneration to prevent loss of power to prevent loss of power
 Flashing	Level 2	Exhaust Filter is full. Parked Regen is required	Pull vehicle safely off roadway and start Parked Regeneration to prevent loss of engine power
 Flashing And Alarm	Level 3	Exhaust Filter is full . Engine Performance is Limited	WARNING Pull vehicle safely off roadway and start Parked Regen to prevent engine shutdown.
	Shutdown	A serious problem has occurred	Pull vehicle safely of roadway, turn on flashers, set parking brake, place warning devices, and STOP ENGINE. Seek service immediately.
		Exhaust System is Hot	WARNING Exhaust components are operating under normal conditions and exhaust gases are at extremely high temperatures. When stationary, keep away from people and flammable materials, vapors, or structures or STOP ENGINE

Parked Regeneration Instructions:

Step	Procedure				
1	Park the vehicle safely off the roadway and away from flammable materials. Do not operate PTO or vehicle mounted equipment during regen. Engine speed may increase unexpectedly.				
2	Before initiating parked regeneration (pressing the <i>optional</i> PARKD REGEN switch), the following four conditions must be in place				
2A	 Park Brake Applied	<table border="0" style="width: 100%;"> <tr> <td data-bbox="440 394 613 709"> 2B  Transmission in Park or Neutral </td> <td data-bbox="613 394 852 709"> 2C  No Foot Pedals Applied If Foot Pedal is applied during regen the process will stop </td> <td data-bbox="852 394 1055 709"> 3C  Engine Coolant Temperature above 170F or 77C </td> </tr> </table>	2B  Transmission in Park or Neutral	2C  No Foot Pedals Applied If Foot Pedal is applied during regen the process will stop	3C  Engine Coolant Temperature above 170F or 77C
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<p>NOTE: If any of the above conditions are altered during the Parked Regeneration process, regeneration will be halted, and must be restarted. Other conditons that inhibit Parged Regen are certain Active Engine Diagnostic codes, or other vehicle electrical system problems. MIL lamp or other lamps are an indication of problems that may inhibit a Parked Regen. Resolve all Diagnostic Codes and Problems before attempting a Parked Regen.</p>					
3	<p>Press and hold the PARKD REGEN switch for 2 seconds to initiate the regeneration cycle. The engine speed will automatically ramp up to a preset RPM and the switch indicator will illuminate solidly when the cycle is started. If the indicator is blinking, check to be sure that all conditions in step 2 are met. Once started, the regeneration cycle will last approximately 20 minutes.</p> <p>NOTE: In the event of an emergency situation where the vehicle must be moved after beginning Parked Regeneration, press PARKD REGEN switch OFF to cancel Parked Regeneration.</p>				
3A		This light will stop blinking and eventually turn OFF during the parked regeneration indicating a cleaned exhaust filter.			
3B		This light (HEST lamp) will turn ON during the parked regen or with NORMAL high temp duty cycle indicating High Exhaust Temp. HEST lamp comes on if exhaust temp is 400C+. This condition is NORMAL.			
4	When the regeneration cycle is complete, the switch light will go off, the engine rpm will return to normal idle and all exhaust filter indicators will be off. The vehicle may now be driven normally.				
	<p>WARNING: When performing a Parked Regen, make certain the vehicle is safely off the roadway and exhaust system is away from people or any flammable materials, vapors, or structures. parked Regen may increase engine speed. Do not run PTO equipment during a Perked Regen.</p>				
	<p>WARNING: Failure to follow these instructions may result in loss of engine power, vehicle speed, increased exhaust temperatures and may cause an accident or fine resulting in property damage, personal injury or death.</p>				

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