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Title: Dash Cluster Lamp Operation, Functions and Regeneration Instructions

Applies To: EPA 2010 and newer AE, BE and CE Bus, DuraStar®, TranStar®, WorkStar®, TerraStar®, and ProStar® trucks with MaxxForce® and Navistar® Engines

CHANGE LOG

Please refer to the change log text box below for recent changes to this article:

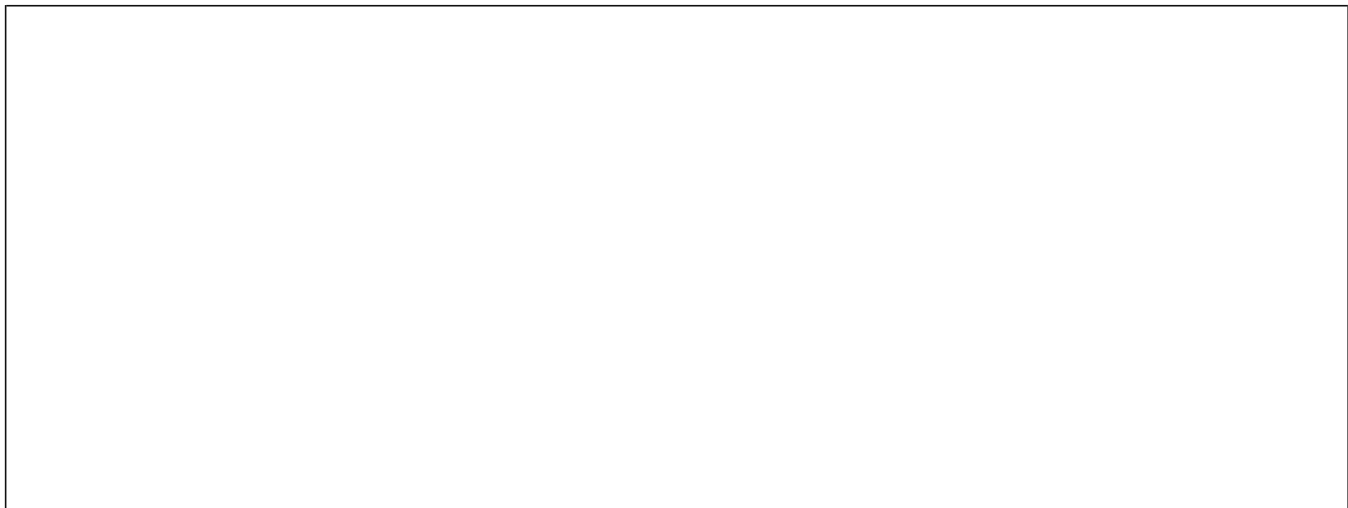
09/04/2015 - Updated formatting and added .PDF of Dash Cluster examples.
 09/01/2015 - Article updated to include SCR and EPA 2010 and newer engines.
 08/04/2015 - Author updated for feedback purposes.

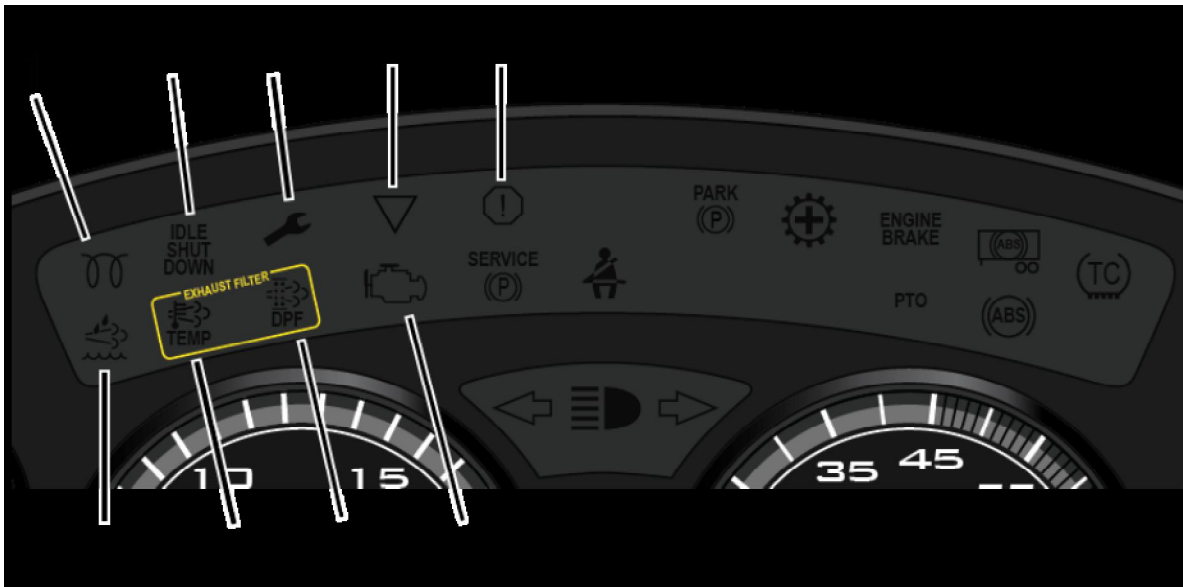
DESCRIPTION

Below is a chart that identifies the lamps by location and provides dash lamp operation and details










Click [Here](#) to see full color examples of a ProStar and CE Bus dash cluster.

Also included in this document are the Parked Regeneration Instructions.


















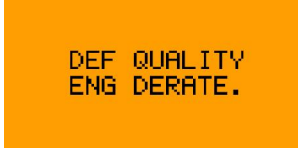





Dash Cluster (Typical)

Lamp#	Lamp	Name	Description
1		Wait To Start	Illuminates when intake air heaters and glow plugs are in operation and special starting procedures are required. Duration of Wait to Start will vary upon ambient air temperature. Flashes when optional engine starting protection activated. Optional feature prevents engine cranking to cool starter motor and prevent burn out. Once starter motor has cooled, normal function is restored.
2		Idle Shut Down	Illuminates to alert driver that vehicle idle shutdown timer will turn engine off in 30 seconds
3		Protect	The protect lamp is used in conjunction with other Warning Indicators or General Text and Warning Messages and may be accompanied by an audible alarm to indicate an Alert condition to the operator.
4		AWL	The Amber Warning Lamp (AWL) illuminates when the vehicle needs to be serviced at the first available opportunity.
5		RSL	The Red Stop Lamp (RSL) illuminates red when a serious problem has occurred. This lamp is accompanied by a message on the odometer display and an audible alarm. If the Red Stop Lamp illuminates, immediately pull the vehicle safely off the roadway, turn on flashers, set the parking brake, place warning devices, and stop engine. The engine should not be restarted prior to being serviced.
6		MIL	The Malfunction Indicator Lamp (MIL) illuminates when the On-Board Diagnostics (OBD) detects a Malfunction related to the emissions control system. The illuminated MIL indicates that the vehicle needs to be serviced at the first convenient opportunity. Lamp may remain active after repair until system operation confirms repair.
7		DPF	Indicates the need to regenerate the Diesel Particulate Filter.
8		HEST	The High Exhaust Temperature (HEST) Illuminates when exhaust system components are operating under normal conditions and exhaust gases are at extremely high temperatures
9		DEF	Illuminates (Solid or Flashing) when the Diesel Exhaust Fluid (DEF) level is low.







DEF (Diesel Exhaust Fluid) Low Level Indicators

Level	Indicator	Alarm	LCD Text Message	Vehicle Condition / Operation
1		1 Beep		Initial Warning – normal engine operation. DEF level is 5.6% or lower.
2		1 Beep		Initial Warning – normal engine operation. DEF level is 2.2% or lower.
3	 	1 Beep		Engine performance is progressively derated by up to 40%. DEF level is 0%.
4	 	1 Beep		Engine performance is derated by 40%. Vehicle speed is limited to 5 mph (8 km/h). DEF level is 0%.




DEF (Diesel Exhaust Fluid) Quality Problem Indicators

Level	Indicator	Alarm	LCD Text Message	Vehicle Condition / Operation
1		No Alarm		Initial Warning - fault code as been set.
2		No Alarm		Engine Performance is progressively derated by at least 25%.
3		1 Chime		Engine performance is derated by up to 40%.
4	 	1 Chime		Engine performance is derated by up to 40%. Vehicle speed is limited to 5 MPH (8 KMH)



SCR System Fault

Level	Indicator	Alarm	Vehicle Condition / Operation
1		1 Beep	Initial Warning - fault code as been set.
2		1 Beep	Engine Performance is progressively derated by at least 25%.
3	 	1 Beep	Engine performance is derated by up to 40%.
4	 	1 Beep	Engine performance is derated by up to 40%. Vehicle speed is limited to 5 MPH (8 KMH)

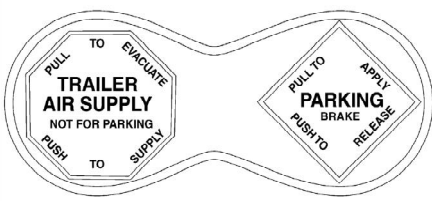


Diesel Particulate Filter (DPF) Regeneration Table



Level	Lamp / Alarm	LCD Text Message (Scrolls between)		Vehicle Condition / Operation	Action Required
1	 No Alarm	SEE VISOR FOR INFO	PARKED REGEN REQUIRED	Exhaust filter regeneration required	Drive on highway at highway speeds or start Parked Regeneration to prevent loss of power.
2	 No Alarm	SEE VISOR FOR INFO	PARKED REGEN REQUIRED	Exhaust filter is full	WARNING: Failure to observe the following warning may cause property damage, personal injury, or death. Pull vehicle safely off roadway and start Parked Regeneration to prevent engine stopping. Pull vehicle safely off roadway and start Parked Regeneration to prevent loss of engine power.
3	 Continuous Alarm (with ignition on)	SEE VISOR FOR INFO	PARKED REGEN REQUIRED	Exhaust filter is full. Engine performance is limited	WARNING: Failure to observe the following warning may cause property damage, personal injury, or death. Pull vehicle safely off roadway and start Parked Regeneration to prevent engine stopping. Pull vehicle safely off roadway and start Parked Regeneration to prevent loss of engine power.

Other Warnings


Lamp	Vehicle Condition / Operation	Action
	Exhaust temperature is HOT .	Warning: To prevent property damage, personal injury, and / or death, keep exhaust components away from people and flammable materials, vapors, or structures. Exhaust components, operating under normal conditions, and exhaust gases are at extremely high temperatures. When this indicator is illuminated, the exhaust system and exhaust gases are extremely HOT. Extreme care must be taken to avoid people and flammable materials, vapors and structures when the vehicle is stationary or moving slowly.
	A serious problem has occurred.	Engine may SHUT DOWN soon. Pull vehicle safely of roadway, turn on flashers, set parking brake, place warning devices, and STOP ENGINE . Seek service immediately.

Parked Regeneration Procedure

Step	Procedure	
1	Park the vehicle safely off the roadway and away from flammable materials.	
2	Before initiating parked regeneration (using the ON / PARKD REGEN switch), the following conditions must be in place:	
A	 <small>8487104</small>	Parking brake must be set.
B		DPF indicator illuminated (solid or flashing).
C		Transmission must be in Neutral (N) or Park (P), if available.

	D		Accelerator, foot brake and clutch (if present) pedals must not be depressed.
	E		Engine temperature must be at a sufficient level to allow regeneration. With some engines, this may be as high as 170°F (77°C).

NOTE: The engine coolant temperature must be above 170°F (77°C) before the parked regeneration procedure can be performed. If the engine coolant temperature is too low, the parked regeneration procedure will not activate.

3	<p>Press the ON position of the ON / PARKD REGEN switch to initiate the regeneration cycle.</p> <p>The engine speed will automatically ramp up to a preset RPM, PARKD REGEN ACTIVE will be displayed in the information display, and the switch indicator will illuminate when the cycle is started. If the indicator is blinking, check to be sure that all conditions in Step 2 have been met. Once started, the regeneration cycle will last approximately 30 minutes.</p>	
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NOTE: In the event of an emergency where the vehicle must be moved after beginning Parked Regeneration, press PARKD REGEN position of the ON / PARKD REGEN switch to cancel Parked Regeneration.



4	<p>When the regeneration cycle is complete, the switch indicator will go off, the engine RPM will return to normal idle, and all exhaust filter warning indicators will be off. The vehicle may now be driven normally.</p>
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NOTE: In the event of an emergency where the vehicle must be moved after beginning Parked Regeneration, press PARKD REGEN position of the ON / PARKD REGEN switch to cancel Parked Regeneration.

Regeneration Inhibit Switches

The optional Regeneration Inhibit switch is used to prevent the normal regeneration or parked regeneration processes.

NOTE: There are two versions of the regeneration inhibit switch: the two-position and the three-position switch. Therefore, it is necessary to verify which version is installed in this vehicle. Both versions have the same switch labels

Two-Position Regeneration Inhibit Switch	<p>With the optional two-position switch, pressing the ON position of the ON / INHIBT REGEN switch will inhibit both normal and parked regeneration. Regeneration will be inhibited (latched) when in this position and the switch indicator is turned on.</p>	
Three-Position Regeneration Inhibit Switch	<p>The optional three-position switch is a center stable momentary switch. Pressing the ON position inhibits normal regeneration while the engine is running and is reset when the ignition switch is turned off. The Inhibit function is cancelled when the lower position is pressed, or parked regeneration is initiated (PARKD REGEN switch is turned to the ON position). The switch indicator will be turned on whenever regeneration inhibit is enabled.</p>	



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