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Title:

DPF (Diesel Particulate Filter) Operating Conditions and Parked Regeneration Process on 2007 EPA Emission Vehicles

Applies To:

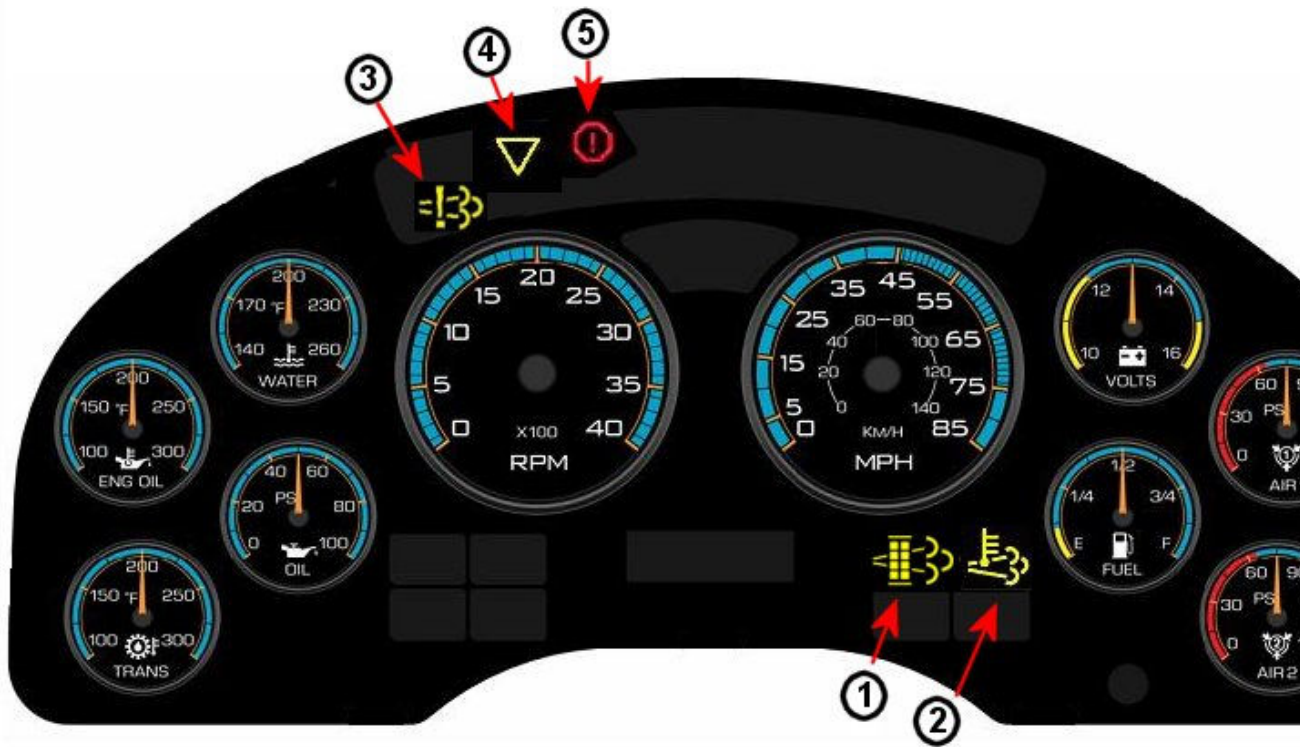
All International 2007 EPA Emission Vehicles with a Factory Installed DPF (Diesel Particulate Filter)

**OPERATING CONDITIONS FOR 2007
EPA EMISSIONS EQUIPPED VEHICLES**

2007 emissions require the use of an exhaust filter system. This system includes a Diesel Particulate Filter (commonly referred to as DPF).

The DPF traps and stores particulate matter and ash (engine emissions). As a result the engine exhaust flow may become restricted over time.






Dashboard warning lamps and an audible warning will alert the vehicle operator when the DPF is near or at capacity and requires regeneration (regen)













Dash Lamp Identification

Item	Lamp	Description
1		DPF Status Lamp. Indicate the need to regenerate the Diesel Particulate Filter (DPF). Stops blinking and turns off during a regen.
2		HEST High Exhaust System Temperature Lamp. Warns the driver that exhaust temp is high. Will come on because of NORMAL passive or active regeneration or high temp duty cycles. HEST lamp will come on if exhaust temp is 400C+ and vehicle speed is less than 5mph and this condition is NORMAL
3		MIL Engine Emissions Control System Malfunction Indicator Lamp. MIL lamp: Aftertreatment Malfunction Indicator Lamp. Indicates DPF sensor faults or other emission related faults. Fault codes will be present. A stationary regen will NOT turn this light off.
4		General Warning Lamp .Used in conjunction with other Warning Lights or General Text and Warning Messages to indicate an Alert condition to the operator
5		STOP ALERT LAMP Used in conjunction with other Warning Lights or General Text and Warning Messages to indicate a red STOP alert.


Level	Soot Load Engine Performance	Dash Lamps	Situation	Driver's Response
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1	<p style="text-align: center;">Low Soot Load</p>	 Solid	<p style="text-align: center;">Exhaust filter (DPF) Regeneration required</p>	<p>Drive on highway at highway speeds until lamp turns off OR start Parked Regeneration to prevent loss of power</p>
2	<p style="text-align: center;">Moderate Soot Load</p>	 Flashing	<p style="text-align: center;">Exhaust Filter (DPF) is full Regeneration Required</p>	<p>Pull vehicle safely off roadway and start Parked Regeneration to prevent loss of engine power</p>
3	<p style="text-align: center;">Full Soot Load</p> <p style="text-align: center;"><i>Moderate De-Rate</i> Engine Performance</p>	 Flashing  Solid	<p style="text-align: center;">Dash Audible Alarm</p> <p style="text-align: center;">Exhaust filter is full. Engine performance is LIMITED</p>	<p>Pull vehicle safely off roadway and start Parked Regeneration to prevent engine stopping</p>
4	<p style="text-align: center;">Over-Full Soot Load</p> <p style="text-align: center;"><i>Severe De-Rate</i> Engine Performance</p>	 Solid	<p style="text-align: center;">Dash Audible Alarm-</p> <p style="text-align: center;">A serious engine problem has occurred. Exhaust filter may be overfull. Engine may SHUTDOWN soon</p>	<p>Pull vehicle safely off roadway, turn on flashers, place warning devices, and STOP ENGINE. DO NOT USE parked Regeneration. Call for service</p>





Sun Visor Decal




EMISSION SYSTEM INSTRUCTIONS				
 (Solid)	 (Flashing)	 	 (Solid)	Exhaust Tempera
LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	
Exhaust filter regeneration required.	Exhaust filter is full.	Exhaust filter is full. Engine performance LIMITED .	A serious engine problem has occurred. Exhaust filter may be overfull. Engine may SHUTDOWN soon.	 WARNI Exhaust comp exhaust gas ar high temperatu When stationar from people an materials, vapo or STOP ENGI
Drive on highway at highway speeds OR start *Parked Regeneration to prevent loss of engine power.	Pull vehicle safely off roadway and start *Parked Regeneration to prevent loss of engine power.	 WARNING: Pull vehicle safely off roadway and start *Parked Regeneration to prevent engine stopping.	 WARNING: Pull vehicle safely off roadway, turn on flashers, place warning devices, and STOP ENGINE . Seek service immediately.	
* 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, increased exhaust temperatures, and may cause an accident or fire, property damage, personal injury, or death.		

PROCEDURE FOR PERFORMING A PARKED REGENERATION ON A 2007 EPA VEHICLE (IF EQUIPPED)

 **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, increased exhaust temperatures, and may cause an accident or fire, property damage, personal injury, or death.

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
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
NOTE: If any of the above conditions are altered during the Parked Regeneration process, regeneration will be halted, and must be restarted.	

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		<p>This light will stop blinking and eventually turn OFF during the parked regeneration indicating a cleaned exhaust filter</p>
3B		<p>This light will turn ON during the parked regen or with NORMAL high temp duty cycle indicating High Exhaust Temp (HEST lamp)HEST lamp comes on if exhaust temp is 400C+ and vehicle speed is less than 5mph and this condition is NORMAL</p>
4	<p>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>	

DPF Dash L

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