






Description of Revisions: *This bulletin replaces the version dated May 2007. Regeneration (regen) during PTO operation is explained, and Regen-switch operating parameters are further defined.*

General Information

Normal highway driving, or operating the engine under load, helps keep the Diesel Particulate Filter (DPF) hot enough to self-clean, but operating with a light load or at reduced speeds can allow soot to build up on the DPF. Eventually the soot accumulation causes the indicator lamp to come on, indicating that a regeneration must happen soon. During regeneration, intense heat converts the soot to less-restrictive ash.

A decal, p/n 24-01583-000B (Fig. 1) generally describing EPA07 exhaust treatment operations and indicator lamps may be present on the driver's sun visor, and a similar reference card may be included with the vehicle.

EXHAUST AFTERTREATMENT SYSTEM INFORMATION					
INDICATOR LAMP(S)	 (Solid) Level 1	 (Flashing) Level 2	 (Flashing) CHECK Level 3	 (Flashing) CHECK STOP Level 4	 WARNING
Indicator Lamp Message(s)	Filter Regeneration Recommended	Filter Regeneration Necessary	Parked Regeneration Required - Engine Derate	Parked Regeneration Required - Engine Shut Down	HEST (High Exhaust System Temperature)
Diesel Particulate Filter Condition	Filter is reaching capacity.	Filter is now reaching maximum capacity.	Filter has reached maximum capacity.	Filter has exceeded maximum capacity.	Flashing A regeneration is in progress.
Required Action	Bring vehicle to highway speeds to allow for an Automatic Regeneration or perform a Parked Regeneration.	To avoid engine derate bring vehicle to highway speeds to allow for an Automatic Regeneration or perform a Parked Regeneration as soon as possible.	Vehicle must be parked and a Parked Regeneration must be performed - engine will begin derate.	Vehicle must be parked and a Parked Regeneration or Service Regeneration must be performed. Check engine operator's manual for details - engine will shut down.	Solid Exhaust Components and exhaust gas are operating at high temperature. When stationary, keep away from people and flammable materials, vapors, or structures.
For a driver performed Parked Regeneration, vehicle must be equipped a dash mounted Regeneration Switch.					
See Engine Operator's Manual for complete Regeneration Instructions.					
<small>24-01583-000B</small>					

12/04/2008

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Fig. 1, Aftertreatment System (ATS) Indicator Lamps Decal

If the DPF light (see Fig. 2) begins flashing while the vehicle is being driven, the driver must pull over and initiate a parked regeneration (regen). The procedure varies for different engines; for more information, refer to the engine manufacturer's documentation.

If a vehicle is received at the dealership with the amber DPF indicator lamp on, perform a parked regeneration, following the procedure below.

Procedure

1. Make sure the vehicle is parked away from all combustable and flammable materials.

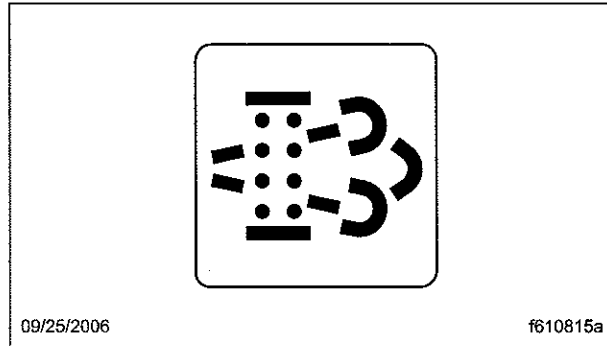


Fig. 2, Diesel Particulate Filter (DPF) Indicator Lamp

NOTE: The ECM will not allow active regeneration in a vehicle equipped with Power Take-Off (PTO) while the PTO is engaged. Some custom builders may install custom bypasses to allow regen during PTO operation, but Daimler Trucks North America cannot anticipate the effects of equipment installed by third parties. If a custom bypass is installed, the vehicle operator must follow the custom installer's guidelines.

NOTE: If the engine is a Detroit Diesel, Cummins, or Mercedes-Benz, warm the engine until the coolant is at least 150°F (66°C) before beginning regeneration.

Caterpillar engines do not require warm coolant for this procedure.

2. With the engine running:

- Set the parking brake (if the parking brake is already set, you must release it, then set it again).
- Put the transmission in neutral.
- Fully depress and release the clutch pedal, if equipped.

NOTE: The Regen switch may have a lockout button, as shown in Fig. 3. If the Regen switch has a lockout button, slide the button toward the center of the switch in the direction of the arrow, then press and hold the switch in for 4 seconds. The engine rpm will increase to between 1100 and 1600, and initiate the regeneration process.

3. If the Regen switch does not have a lockout button, simply press the Regen switch and hold it in for 4 seconds.

Regeneration Process

The Regen switch causes the engine to increase rpm and initiate the regeneration process.

In about 20 to 40 minutes regeneration will be complete, and the engine idle will drop to the base idle speed.

The vehicle may now be driven normally. The High Exhaust System Temperature (HEST) light may be on, but will go out when the ATD has cooled to normal operating temperature. See Fig. 4. This light is informational; no driver action is required.

Warranty

This is an informational bulletin only; warranty does not apply.

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Western Star Service Bulletin

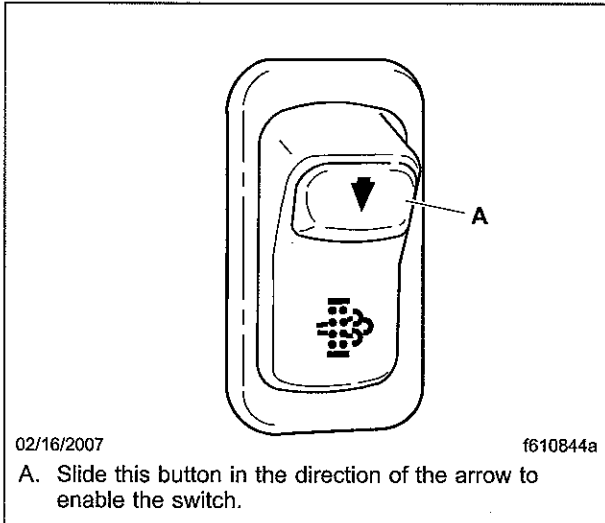


Fig. 3, Dash Regen Switch (shown with lockout button)

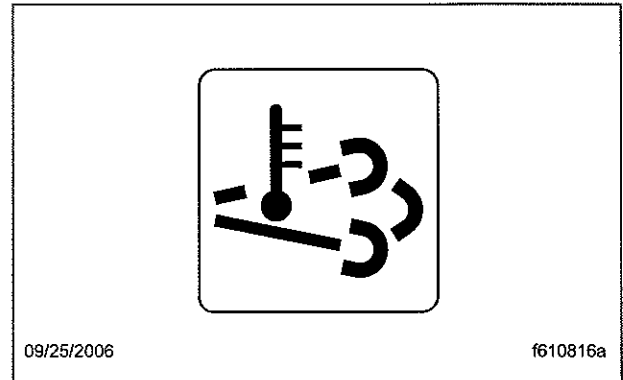


Fig. 4, High Exhaust System Temperature (HEST) Light