

Buzz here! Calling all County Technicians!

Do you have questions about the 2007 emission regeneration process and the dash lights?





Normal highway driving, or operating the engine under load, helps keep the Diesel Particulate Filter (DPF) hot enough to selfclean, but operating with a light load or at reduced speeds can allow soot to build up in the DPF.





Eventually the soot accumulation causes the indicator lamp to come on, indicating that a regeneration must happen soon. I am providing information here to help you handle this easily.





All 2007 emission buses delivered included:

- Placard left of the driver seat explaining the lights.
- •Laminated cards with dash light and regeneration info.
- •Explanation sheet prepared by Carolina Thomas at request of DPI to help.





I am providing all of this information here so you can have it at your finger tips. My hope is that this will make your job easier.

Please call us if you need any help. 1-800-440-3492.



Diesel Particulate Filter (DPF) Status Light On, EPA07 Engines

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> Saf-T-Liner C2

Thomas Built Buses Service Bulletin

Description of Revisions: This bulletin replaces the version dated January 2008. 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 for Mercedes-Benz engines, see Fig. 1 and p/n TBB 153028 for Cummins engines, see Fig. 2, generally describing EPA07 exhaust treatment operations and indicator lamps may be present on the switch cabinet, and a similar reference card may be included with the vehicle.

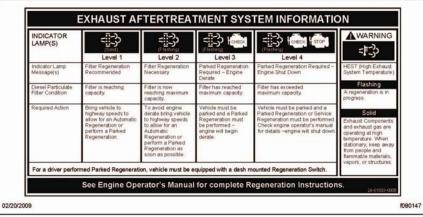


Fig. 1, Aftertreatment System (ATS) Indicator Lamps Decal, Mercedes-Benz engines

If the DPF light (see Fig. 3) begins flashing while the vehicle is being driven, the driver can either pull over and initiate a parked regeneration (regen) or change the duty cycle while driving at highway speeds. The procedure varies for different engines; for more information, refer to the engine manufacturer's documentation.

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



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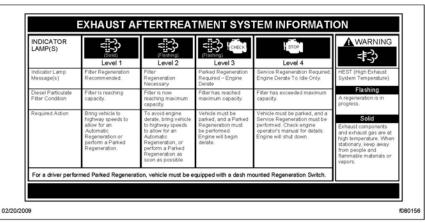


Fig. 2, Aftertreatment System (ATS) Indicator Lamps Decal, Cummins engines

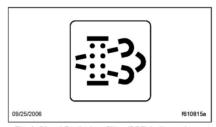


Fig. 3, Diesel Particulate Filter (DPF) Indicator Lamp

Procedure

A WARNING

The exhaust gas temperature could reach 1500°F (800°C), which is hot enough to ignite or melt common materials, and to burn people.

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

NOTE: If the engine is a Mercedes-Benz, warm the engine until the coolant is at least 140°F (60°C) before beginning regeneration.

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- 2. With the engine running:
 - 2.1 Set the parking brake (if the parking brake is already set, you must release it, then set it again).
 - 2.2 Put the transmission in neutral.
 - 2.3 Fully depress and release the clutch pedal, if equipped.
 - 2.4 If the vehicle has a two-pedal automated transmission, shift it into gear, then back to neutral.

NOTE: The Regen switch may have a lockout button, as shown in Fig. 4. 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.

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

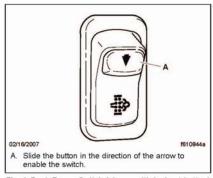


Fig. 4, Dash Regen Switch (shown with lockout button)

Regeneration Process

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

NOTE: The Regen switch will only initiate a regen if the engine software deems it necessary.

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 lit, but will go out when the ATD has cooled to normal operating temperature. See **Fig. 5**. This light is informational; no driver action is required.

Warranty

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

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Fig. 5, High Exhaust System Temperature (HEST) Light



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2007 EPA ENGINES

PLEASE ALWAYS REFER TO OWNER OPERATOR'S MANUAL PROVIDED IN EVERY VEHICLE FOR EXACT MAINTENANCE REQUIREMENTS!

CUMMINS ENGINES MEETING 2007 EPA REQUIRMENTS REQUIRE:

- LOW ASH ENGINE OIL MEETING CJ-4 SPECIFICATIONS.
- OIL THAT MEETS CES-20081 STANDARD.
 - REFER TO SECTION V PAGE 10-11 IN YOUR OPERATOR'S MANUAL.
- USE ONLY ULTRA LOW SULFUR DIESEL.
- REFER TO PICTORAL CHART LEFT OF DRIVER FOR KEY TO EPA EMISSION LIGHTS AND HOT EXHAUST TEMPERATURES.
- EXPECTED SERVICE INTERVAL ON ATD (AFTER TREATMENT DEVICE FOR EXHAUST) IS 200,000 MILES.
- AVOID PROLONGED IDLING WHENEVER POSSIBLE.
- COOLING SYSTEM MUST BE MAINTAINED PER OWNER OPERATOR'S MANUAL TO PREVENT ENGINE AND SYSTEM DAMAGE.

STATIONARY REGEN EVENT FOR EXHAUST SYSTEM

IF A STATIONARY REGEN EVENT IS REQUIRED FOR THE EXHAUST SYSTEM OF THIS EPA 2007 COMPLIANT VEHCILE PLEASE FOLLOW THESE PROCEDURES TO ACTIVATE.

- REGEN MUST BE REQUIRED BY THE ECM TO ALLOW EVENT.
- . TRANSMISSION MUST BE IN NUETRAL.
- ENGINE MUST BE AT OPERATING TEMPERATURE AND ENGINE IDLING.
- CYCLE THE PARK BRAKE AND MAKE SURE THAT IT IS LEFT APPLIED.
- HOLD REGEN SWITCH ON THE DASH UNTIL FAST IDLE ENGAGES.
- REGEN EVENT WILL TAKE 20-30 MINUTES TO COMPLETE.

CAUTION: THE EXHAUST CAN REACH VERY HOT TEMPERATURES DURING A STATIONARY REGEN. PLEASE USE ALL CAUTIONS NECESSARY AND REFER TO OWNER OPERATOR'S MANUAL.

Carolina Thomas, LLC 6327 Burnt Poplar Road

Greensboro, NC 27409 336-851-1718 Information sheet delivered with bus and paperwork to refer to.



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6/9/2009

Good luck knocking the soot out of these DPF's! Talk to you soon!



