6.7L DIESEL—OPERATOR COMMANDED REGENERATION (OCR) CAPABILITY FOR VEHICLES WITH STANDARD LEVEL INSTRUMENT CLUSTER ONLY

TSB 13-11-14

FORD:
2011-2014 F-Super Duty

This article supersedes TSB **13-10-12** to update the Customer Information Sheet and Warranty Status.

ISSUE

Some 2011-2014 F-Super Duty vehicles equipped with a 6.7L diesel engine that are primarily used in a stationary or off-highway type use may exhibit frequent exhaust regeneration attempts, Drive To Clean maintenance messages and/or the wrench light on with diagnostic trouble code (DTC) P2463 for a restricted diesel particulate filter (DPF). The unique operational mode of these vehicles may not easily allow for normal exhaust regeneration and may benefit from OCR capability so the unit can perform regeneration in a stationary setting.

ACTION

Refer to the Service Procedure Steps for additional details.

SERVICE PROCEDURE

Reprogramming the Instrument Cluster (IC) and Powertrain Control Module (PCM) to enable this feature is not covered under the vehicle's warranty and is only available on vehicles equipped with a standard level IC.

1. Check the vehicles build date.
    a. Vehicles built before 11/5/2010, proceed to Step 2.
    b. Vehicles built on or after 11/5/2010, proceed to Step 4.
2. Reprogram the IC to the latest calibration using IDS release 71.03 and higher. Calibration files may also be obtained at www.motorcraft.com.
3. Reprogram the PCM and transmission control module (TCM) to the latest calibration using IDS release 71.03 and higher. Calibration files may also be obtained at www.motorcraft.com.

NOTE
PLEASE ADVISE THE CUSTOMER THAT THIS VEHICLE IS EQUIPPED WITH AN ADAPTIVE TRANSMISSION SHIFT STRATEGY WHICH ALLOWS THE VEHICLE'S COMPUTER TO LEARN THE TRANSMISSION'S UNIQUE PARAMETERS AND IMPROVE SHIFT QUALITY. WHEN THE ADAPTIVE STRATEGY IS RESET, THE COMPUTER WILL BEGIN A RE-LEARNING PROCESS. THIS RE-LEARNING PROCESS MAY RESULT IN FIRMER THAN NORMAL UPSHIFTS AND DOWNSHIFTS FOR SEVERAL DAYS.

4. Enable OCR by using IDS and following the procedure below:
    a. Select - Module Programming.
    b. Select - Programmable Parameters.
    c. Select - Personality.
    d. Select - Forced Regeneration Request.
    e. Select - Enable and follow the IDS screen prompts to complete programming.

NOTE
FOR VEHICLES BUILT PRIOR TO 11/5/2010, PLEASE PROVIDE THE CUSTOMER WITH A COPY OF THE CUSTOMER INFORMATION LOCATED AT THE END OF THIS ARTICLE PRIOR TO RELEASING THE VEHICLE. VEHICLES BUILT ON OR AFTER 11/5/2010 WILL HAVE THIS INFORMATION CONTAINED WITH THE ORIGINAL OWNER GUIDE PACKET INFORMATION

WARRANTY STATUS: Information Only - Not Warrantable

Customer Information Sheet

If the operator is not able to drive in a manner that allows effective automatic cleaning (active regeneration) or the operator wishes to perform regeneration of the DPF (cleaning) while at idle (stationary), then OCR will need to be performed.

NOTE: Do not disregard the "DRIVE TO CLEAN" DPF maintenance messages for extended periods of time. Failure to perform active or operator commanded regeneration (if equipped) when instructed may result in a clogged DPF. If your DPF fills beyond what can be safely regenerated, active regeneration and OCR will be disabled. This could cause irreversible damage to the DPF, requiring service and possible replacement that may not be covered by your warranty.

OPERATOR COMMANDED REGENERATION (OCR)

If your vehicle is utilized for significant stationary operation, passive and active regeneration may not sufficiently clean the DPF system. OCR allows the vehicle operator to manually start regeneration of the DPF at idle (while stationary) to clean the DPF.

WHEN TO PERFORM OCR

Use the OCR feature when a "**DRIVE TO CLEAN**" DPF maintenance message appears on the message center and:
- The operator is not able to drive in manner that allows effective automatic cleaning (active regeneration) or,
- The operator instead wishes to manually start regeneration (cleaning) of the DPF while the vehicle is stationary.

OCR PRECAUTIONS AND SAFE EXHAUST POSITION

Before starting OCR, observe/perform the following:
- Place the vehicle in P (Park) with the parking brake set on stable, level ground.
- The vehicle must not be parked in a structure.
- The vehicle must be away from any obstructions within 10-15 feet (3-5 meters) of the vehicle, and must be away from materials that can easily combust or melt such as: paper, leaves, petroleum products, fuels, plastics and any other dry organic material, such as grass or brush.
- Ensure there is a minimum of 1/8 tank of fuel.
- Ensure all fluids are at proper levels.
- Ensure the louvers (holes) located at the tip of the exhaust are clear of any obstructions as they are used to introduce fresh air into the tailpipe to cool the exhaust gas as it exits. See "Exhaust" under the cleaning chapter in the vehicle's Owner Guide for additional information.

HOW TO START OPERATOR COMMANDED REGENERATION (OCR)

NOTE: OCR will not operate if the Service Engine Soon light is illuminated.

NOTE: During the use of OCR, you may observe a light amount of white smoke. This is normal.

1. Begin with the vehicle engine fully warmed to operating temperature.
2. Press the Info button on the steering wheel until the message center reads "EXHAUST FILTER XXX% FULL".
3. If the DPF needs cleaning and the vehicle engine is warmed up, a message requesting permission to initiate filter cleaning is displayed "EXH 100% FULL CLEAN Y/N". Answering Yes to this prompt and then following prompts will initiate OCR. Be sure to understand each prompt. If you are unsure what is being asked at each prompt, contact your authorized dealer.
4. Once OCR starts, the engine's RPM will rise to approximately 2,000-2,400 rpm and the cooling fan speed will increase; you will hear an audible change in sound due to the increase in engine and fan speed.

It is not necessary to open the hood on the engine compartment to perform OCR. Once OCR is complete, the engine and fan speed will return to normal idle RPM. The exhaust system will remain hot for several minutes even after regeneration is complete. Do not reposition the vehicle over material that could combust or burn until the exhaust system has had sufficient time to cool. Depending on the amount of soot collected by the DPF, ambient temperature, and altitude, OCR may last from 10 to 30 minutes.

NOTE: During stationary PTO operation, OCR will change the engine speed to 2,000-2,400 RPM (depending on vehicle application), therefore it is recommended to exit PTO mode before starting OCR. During mobile PTO use, OCR is not necessary; regeneration will function normally when vehicle is mobile.

HOW TO INTERRUPT/CANCEL OCR

If OCR needs to be canceled for any reason, pressing the brake, accelerator, or shutting off the vehicle will stop OCR. Depending on the amount of time OCR was allowed to operate, soot may not have had sufficient time to be eliminated but the exhaust system and exhaust gas may still be hot. If the vehicle is shut off during OCR, you will notice turbo flutter. This is a normal result caused by shutting off a turbocharged diesel engine during boosted operation and considered normal.

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Figure 1 - Article 13-11-14