

6.7L DIESEL ENGINE—RUNS ROUGH/MISFIRE DURING EXHAUST REGENERATION PROCESS

TSB 13-5-9

FORD:

2011-2013 F-Super Duty

ISSUE

Some 2011-2013 F-Super Duty vehicles equipped with a 6.7L diesel engine may exhibit a runs rough/misfire condition only during the exhaust regeneration process. This condition typically occurs on light throttle tip in between 64-113 Km/h (40-70 MPH), and will not set diagnostic trouble codes (DTCs). The concern may be intermittent and a knocking noise may be present during the concern.

ACTION

Follow the Service Procedure steps to correct the condition.

SERVICE PROCEDURE

1. Did the customer indicate the message center displayed a Cleaning Exhaust Filter message prior to the concern?
 - a. Yes - proceed to Step 2.
 - b. No - this article does not apply. Refer to the Powertrain Control/Emissions Diagnosis (PC/ED) manual for normal diagnosis.
2. Using Integrated Diagnostic System (IDS) or equivalent, retrieve DTCs from the Powertrain Control Module. Are DTC's present?
 - a. Yes - this article does not apply. Refer to the PC/ED manual for normal diagnosis.
 - b. No - proceed to Step 3.
3. Remove the left hand cylinder head. Refer to Workshop Manual (WSM), Section 303-01.
4. Replace all eight (8) exhaust valves and valve seals. Refer to WSM, Section 303-01. (Figure 1)

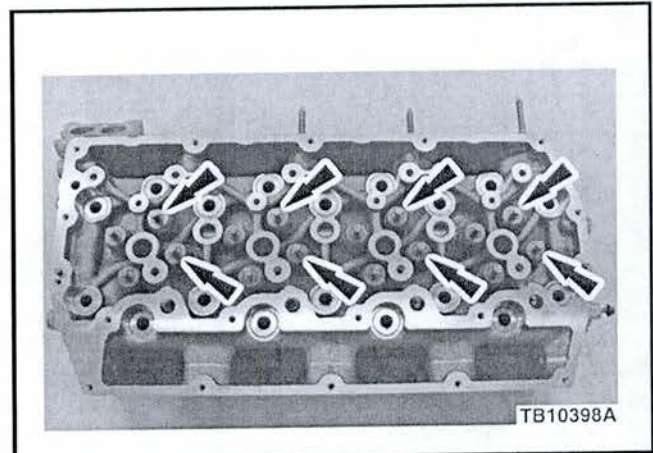


Figure 1 - Article 13-5-9

5. Install cylinder head. Refer to WSM, Section 303-01.

PART NUMBER	PART NAME
BC3Z-9439-C	Upper Intake Gasket
BC3Z-9439-A	Upper Intake Gasket - (Inlet Large)
BC3Z-9439-B	Upper Intake Gasket - (Inlet Small)
BC3Z-6N640-A	Turbo Inlet Gasket Left Hand
W711402-S900	Exhaust Manifold Nuts
BC3Z-8287-A	Inlet Pipe Clamp (2 Req)
BC3Z-6587-A	Turbo Gasket
W713535-S900	Bolts
BC3Z-8287-B	Down Pipe Clamp
BC3Z-9E464-B	Bypass Pipe Gasket
BC3Z-8527-A	Oil Separator O-Ring
BC3Z-6A632-A	Oil Separator Gasket
BC3Z-9448-A	Exh Manifold Gasket
W701706-S440	Nut (8 Req)
BC3Z-8C387-B	RH Coolant Manifold Gasket
BC3Z-8C387-A	LH Coolant Manifold Gasket
BC3Z-8527-N	Heater Tube O-Ring
BC3Z-6065-B	Cylinder Head Bolts
F7DZ-6A008-AA	Cylinder Head Dowels
BC3Z-6051-B	Cylinder Head Gasket
BC3Z-6571-A	Valve Seal
CC3Z-6505-B	Exhaust Valve (8 Req)

NOTE: The information in Technical Service Bulletins is intended for use by trained, professional technicians with the knowledge, tools, and equipment to do the job properly and safely. It informs these technicians of conditions that may occur on some vehicles, or provides information that could assist in proper vehicle service. The procedures should not be performed by "do-it-yourselfers". Do not assume that a condition described affects your car or truck. Contact a Ford or Lincoln dealership to determine whether the Bulletin applies to your vehicle. Warranty Policy and Extended Service Plan documentation determine Warranty and/or Extended Service Plan coverage unless stated otherwise in the TSB article. The information in this Technical Service Bulletin (TSB) was current at the time of printing. Ford Motor Company reserves the right to supersede this information with updates. The most recent information is available through Ford Motor Company's on-line technical resources.

TSB 13-5-9 (Continued)

WARRANTY STATUS: Eligible Under Provisions Of
New Vehicle Limited
Warranty Coverage
Warranty/ESP coverage
limits/policies/prior approvals
are not altered by a TSB.
Warranty/ESP coverage
limits are determined by the
identified causal part and
verified using the OASIS
part coverage tool.

OPERATION	DESCRIPTION	TIME
130509A	2011-2013 F-Super Duty 6.7L: Check DTCs Replace Eight (8) Exhaust Valves In The Left Cylinder Head Includes Time To Remove And Install The Left Cylinder Head (Do Not Use With Any Other Labor Operations)	14.0 Hrs.

DEALER CODING

BASIC PART NO.	CONDITION CODE
6505	42