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 Availability: Revision: 1
 Major System: ENGINES Created: 2/25/2015
 Current Language: English Last Modified: 6/4/2015
 Other Languages: NONE Author: Alex Buzgau
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Coding Information

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Title: Interstage Cooler Interference With Valve Cover Sound Shield Mounting Bolts

Applies To: EPA 2013 HD-OBD and later DT/9/10 and N9/N10

CHANGE LOG

Please refer to the change log text box below for recent changes to this article:

2/25/2015 - Initial Article Release

DESCRIPTION

If contact between the bottom panel of the interstage cooler and the valve cover sound shield mounting bolt is observed, the current socket head screw could cause interference issues between itself and the interstage cooler.



To remedy this, the socket head screw must be replaced with a button head screw, which will provide an additional 2.25mm of clearance. Additionally, if the interstage cooler is punctured due to the interference then it also must be changed.

SYMPTOM(s)

In the event that the interstage cooler is punctured, these symptoms will be present:

Low boost or low power

Boost leak (whistling noise)

Diagnostic Trouble Code(s) & Dashboard Indicator Light(s):

DTC/Light	Description
SPN 102 FMI 10 (FCAP)	Boost slow response fault

Customer Observations or Concerns:

- MIL on
- Performance - low power
- Whistling noise

SPECIAL TOOL(s) / SOFTWARE

Not Applicable

SERVICE PARTS INFORMATION

Verify you include all of the parts required for the entire repair.

Verify you confirm there is available stock in the PDC by referencing the Parts Catalog – [Click Here](#)
If the required parts are not available, please contact the Service Parts Group.

Kit Description	Part Number	Quantity Required	Notes
BOLT, BUTTON HEAD CAP	7098278C1	4	
COOLER ASSY INTERSTAGE	1885586C91	1	EPA 2013 HD-OBD
COOLER, ASSY INTERSTAGE	7094344C91	1	EPA 2014 w/ SCR

DIAGNOSTIC STEP(s)

Not Applicable

REPAIR STEP(s)

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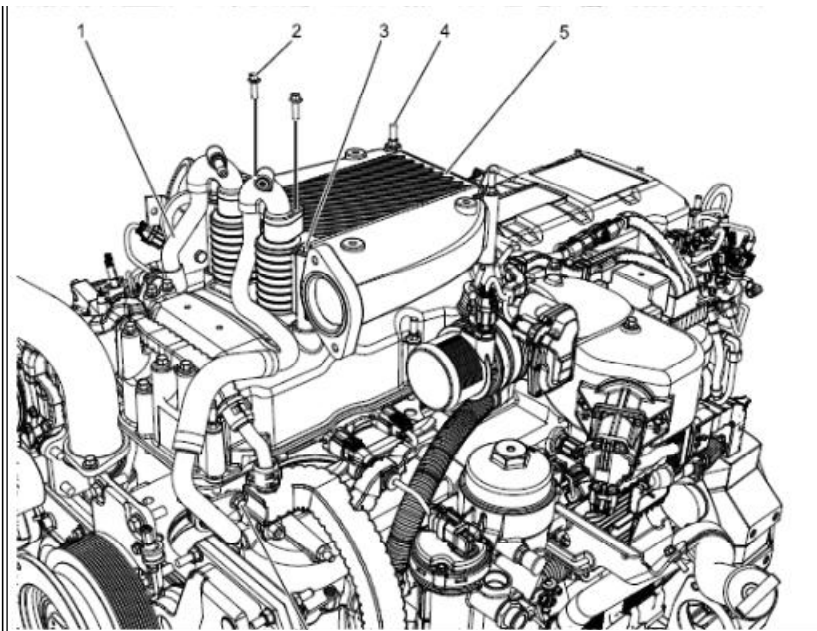


Figure 1: Interstage Cooler

- 1. ISC coolant supply tube
- 2. M6 x 20 bolt (2)
- 3. M8 x 110 bolt (2)
- 4. M8 x 110 stud bolt (2)
- 5. Interstage cooler (ISC)
- 6. M8 x 16 bolt

REMOVAL PROCEDURE:

- 1. Drain engine coolant using KL5007NAV - Coolant Management Tool
- 2. Remove M8 x 16 ISC return tube bolt from cylinder head.
- 3. Remove two M6 x 20 ISC bolts from ISC.
- 4. Remove ISC coolant return tube.
- 5. Squeeze white plastic ISC coolant supply tube retainer and pull up on ISC coolant supply tube to disconnect from EGR coolant supply tube.
- 6. Remove ISC coolant supply tube.
- 7. Remove two M8 x 100 bolts and two M8 x 110 stud ISC bolts from valve cover.
- 8. Lift up ISC to remove from turbocharger inlet elbow.

INSTALLATION PROCEDURE:

- 1. Perform removal procedure in reverse.

WARRANTY INFORMATION

Warranty Claim Coding:

Group:	12000 - ENGINES
Noun:	925 - Cooler, Intake Air

Standard Repair Time(s):

Description	Chassis	Engine	SRT	Hours
INTERCOOLER, REPLACE	HC Bus	MAXXFORCE DT/9/10	E12-6570T	0.7

INTERCOOLER, REPLACE	CE/BE	MAXXFORCE DT/9/10	GY12-6570T	0.7
INTERCOOLER, REPLACE	CE/BE	N 9/10	GY12-6570TS	0.7
INTERCOOLER, REPLACE	4300, 4400	MAXXFORCE DT/9/10	KL12-6570T	0.7
INTERCOOLER, REPLACE	DuraStar	N 9/10	KL12-6570TS	0.7
INTERCOOLER, REPLACE	7300, 7400, 7500	MAXXFORCE DT/9/10	M12-6570T	0.7
INTERCOOLER, REPLACE	7300, 7400, 7500	N 9/10	M12-6570TS	0.7
INTERCOOLER, REPLACE	RE/MOTOR HOME	MAXXFORCE DT/9/10 2010 Emissions	NH12-6570T	0.9

Claim Comment Suggestion:

None

Special Requirement(s):

None

OTHER RESOURCES

[Master Service Information Site](#)

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