



Technical Bulletin

Model(s)	Year	Eng. Code	Trans. Code	VIN Range From	VIN Range To
Passat	2013-2014	2.0L TDI (CKRA)	All	All	All

Condition

80 16 01 July 28, 2016 **2040580** Supersedes Technical Bulletin V801504 dated July 17, 2015 to include Noise Dampening Pan labor operation.

No Heat from Passenger Side Cabin - Heater Core Restricted - Possible MIL for DTC P2457 EGR Cooler Efficiency (CKRA Diesel only)

The customer may complain that the cabin heating output is insufficient on the passenger side.

Mil Light Illuminated: P2457 Exhaust Gas Recirculation Cooler Efficiency Below Threshold.

Technical Background

Excess flux from the aluminum cooling system components (EA189 TDI engine CKRA) contaminates the cooling system. This over time causes a high acidic concentration in the coolant. The result is oxide particles (aluminum rust) and excess flux restricting the heater core. The engine control module may also set EGR Recirculation Cooler efficiency fault.



NOTE:

Do not perform additional diagnosis for this fault before performing the service procedure.

Production Solution

2.0L (CKRA) engine no longer produced.



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Service

P2457 Exhaust Gas Recirculation Cooler Efficiency Below Threshold

If the vehicle has fault P2457 check the inlet and outlet side temperature of the EGR cooler and the heater core. If there is a substantial difference in temperature perform the cooling system cleaning procedure.

Cooling system cleaning procedure:

In order to restore the cooling system to normal specification the coolant must be removed with the following procedure to remove the contaminants and restore the coolant to the proper PH level and coolant percentage for optimal protection.



NOTE:

It is necessary to remove all hoses described in the Elsa repair procedure steps.

Replacing only the heater core will result in the vehicle returning with the same condition. It is essential to perform the coolant removal procedure.

1. Drain the coolant per Elsa (Engine /4 Cyl Diesel Engine/ Repair Group 19 Cooling System/ Coolant System/Coolant/ Coolant Draining and Filling).
2. Refill cooling system using a 50/50 mixture of coolant & distilled water.
3. Start engine and bring to operating temperature. Let engine idle for 5 minutes.
4. Repeat step 1 and drain coolant per Elsa (Engine /4 Cyl Diesel Engine/ Repair Group 19 Cooling System/ Coolant System/Coolant/ Coolant Draining and Filling).
5. Replace heater core according to Elsa. (Elsa / Repair Manual/Heating Ventilation and Air Cond/ 87-Air Conditioning/ Front Heater and AC Unit/ Heater Core Removing and installing.).
6. Refill cooling system using a 50/50 mixture of coolant & distilled water.



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Warranty

To determine if this procedure is covered under Warranty, always refer to the Warranty Policies and Procedures Manual ¹⁾					
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Passat	2013-2014	2.0L TDI (CKRA)	All	All	All
SAGA Coding					
Claim Type:	Use applicable Claim Type ¹⁾				
Service Number:	Damage Code	HST		Damage Location (Depends on Service No.)	
8023	0016	--		Use applicable when indicated in Elsa (L/R)	
Parts Manufacturer		Passat		WWO ²⁾	
Labor Operation ³⁾ : Perform coolant drain and fill (Repair steps 2 and 6)			19381799 = 100 TU		
Labor Operation ³⁾ : Noise Dampening Pan Remove and Reinstall			10821900 = 40 TU		
Labor Operation ³⁾ : Heater Core Replaced			80235550 = 30TU		
Labor Operation ³⁾ : Heater Core Remove and Reinstall			80231900 = 160TU		
Causal Part: Select Labor Operation			19381799		
Diagnostic Time ⁴⁾					
GFF Time expenditure	01500000 = 20 TU max.		YES		
Road Test	01210002 = 00 TU 01210004 = 00 TU		NO		



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Technical Diagnosis	01320000 = 00 TU max.	NO
Claim Comment: Input "As per Technical Bulletin 2040580" in comment section of Warranty Claim.		
1) Vehicle may be outside any Warranty in which case this Technical Bulletin is informational only		
2) Code per warranty vendor code policy.		
3) Labor Time Units (TUs) are subject to change with ELSA updates.		
4) Documentation required per Warranty Policies and Procedures Manual.		

Required Parts and Tools

Part No:	Part Description	Quantity
561 819 031B	Heater Core	1
561 898 380	Gasket Set	1
Use G-13 (G 013A8J1G) for parts ordering Use G 013A8JS0 for warranty claiming purposes	Coolant	120 units (12 tenths) = 3.0 Gallons or 12 quarts

No special tools required.

Additional Information

All part and service references provided in this Technical Bulletin are subject to change and/or removal. Always check with your Parts Dept. and Repair Manuals for the latest information.

Document Control Revision Table			
Instance Number	Published Date	Version Number	Reason For Update
2040580	7/28/16	V801601	To add noise dampening pan labor operation.
2040580/5	7/17/15	V801504	To add DTC information.
2040580/1	5/11/15	V801501	Original publication.