

Technical Service Bulletin



01 MIL on (DTC P1B1C); message in information panel: "Coolant System: Fault Turn Off Engine"

01 16 68 2040491/4 July 22, 2016. Supersedes Technical Service Bulletin Group 01 number 16-56 dated March 24, 2016 for reasons listed below.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
A6	2012 - 2015	All	3.0T
A7	2012 - 2016	All	3.0T
A8	2013 - 2014	All	3.0T
A4	2013 - 2015	All	3.0T
Q5	2013 - 2015	All	3.0T
A5	2013 - 2014	All	3.0T

Condition

REVISION HISTORY		
Revision	Date	Purpose
4	-	Revised <i>Required Parts and Tools</i> (Added O-ring seals, seal, and tube)
3	3/24/2016	Revised <i>Required Parts and Tools</i> (Updated coolant part number)
2	1/20/2016	Revised <i>Service</i> (Updated software version in SVM table) Revised <i>Warranty</i> (Updated Service Number; corrected TU)

- MIL on.
- The following warnings appear in the information panel:
 - "Coolant System: Fault Turn Off Engine"
 - Coolant symbol (Figure 1).
- The following DTC is stored in the engine control module (ECM), J623 (address word 01):
 - **DTC P1B1C00** (Coolant pump mechanical malfunction)



Figure 1. Coolant symbol.

Technical Background

The condition is caused by one of the following scenarios:

- **Scenario A:** There is a defect with the thermostat (in model year 2012 and 2013 vehicles)
- **Scenario B:** The diagnostic software is incorrectly displaying the warning. No technical issue exists.

Production Solution

- **Scenario A:** Improved thermostat installed in production.
- **Scenario B:** The diagnostic software has been updated.

Service

1. Check *Coolant Temperature* in freeze frame data:

Engine speed	958.0	1/min
Normed load value	13.33	%
Vehicle speed	107	km/h
Coolant temperature	102	°C
Intake air temperature	18	°C
Ambient air pressure	990	mbar

- 2.
- If coolant temperature is 115°C or higher, **Scenario A** applies. Replace the thermostat and update the ECM software.
 - If coolant temperature is less than 115°C, **Scenario B** applies. Update the ECM software only.

SVM Update Instructions

1. Follow all instructions in TSB 2011732: *00 Software Version Management (SVM), operating instructions*.
2. Update the ECM (J623) using the SVM action code as listed in the table below if necessary.

Technical Service Bulletin



Model	Engine	Old Software Part Number	Old Software Version	New Software Part Number	New Software Version (or higher)	SVM Code Input
A6, A7	3.0L TFSI	4G0907551A	All	4G0907551A	0010	02A210
		4G0907551D		4G0907551D	0006	
		4G0907551J		4G0907551J	0004	
A4, A5, A5 cabriolet	3.0L TFSI	8K5907551C	All	8K5907551E	0004	02A210
		8K5907551E		8K5907551E	0004	
		8K5907551F		8K5907551G	0007	
		8K5907551G				
A8	3.0L TFSI	4H0907551G	All	4H0907551G	0005	02A210
Q5	3.0L TFSI	8R0907551E	All	8R0907551F	0007	02A210
		8R0907551F		8R0907551F	0007	
		8R0907551D		8R0907551G	0006	
		8R0907551A		8R0907551A	0003	
		8R0907551G		8R0907551G	0006	

Technical Service Bulletin



Warranty

Claim Type:	<ul style="list-style-type: none"> • 110 up to 48/50 • G10 for CPO covered vehicles – verify owner • If vehicle is outside any warranty, this Technical Service Bulletin is informational only. 		
Service Number:	For Scenario A: 1958 For Scenario B: 2470		
Damage Code:	0010		
Labor Operations:	For Scenario A:		
	Thermostat remove+reinstall (A6, A7, Q5)	1958 1991	250 TU
	Thermostat remove+reinstall (For A4, A5, A5 cabriolet)	1958 1991	270 TU
	Thermostat remove+reinstall (For A8)	1958 1991	220 TU
	Compressor remove+reinstall (For A6, A7, A8)	2114 1941	160 TU
	Compressor remove+reinstall (For A4, A5, A5 cabriolet, Q5)	2114 1941	190 TU
	Software update	2470 2599	40 TU
	For Scenario B:		
	Software update	2470 2599	40 TU
Diagnostic Time:	GFF	0150 0000	Time stated on diagnostic protocol (Max 30 TU)
	Road test prior to service procedure	No allowance	0 TU
	Road test after service procedure	0121 0004	10 TU
	Technical diagnosis at dealer's discretion (Refer to Section 2.2.1.2 and Audi Warranty Online for DADP allowance details)		
Claim Comment:	As per TSB # 2040491/4		

Technical Service Bulletin



All warranty claims submitted for payment must be in accordance with the *Audi Warranty Policies and Procedures Manual*. Claims are subject to review or audit by Audi Warranty.

Required Parts and Tools

Part number	Part Description	Quantity
06E121111AL	Thermostat (only if scenario A applies)	1
G 013A8J1G	Coolant	0.5
06E121119E	O-ring seal	2
06E121119C	O-ring seal	1
079129717D	Seal	6
06E103213	Tube	1

Additional Information

All parts and service references provided in this TSB (2040491) are subject to change and/or removal. Always check with your Parts Department and service manuals for the latest information.