

Technical Service Bulletin



34 Cooling oil valve fails basic settings after repair DTC: P1A5B00

34 23 63 2070167/1 May 12, 2023.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
A6	2016 – 2021	All	0CK, 0HL, 0CJ, or 0DK Transmission
A4 allroad, and A4	2017 – 2021		
A5, A5 Cabriolet, A5 Sportback, and Q5	2018 – 2021		
Q5 e quattro	2020 – 2021		
A7 e quattro, and Q5 Sportback	2021		

Condition

Customer states:

No customer statement as the DTC entry may occur after replacing the Transmission Control Unit or Valve Body for another concern.

Workshop findings:

The “Calibration of cooling oil valve” basic setting cannot be performed successfully after a repair.

The following DTC is stored transmission control module (TCM), J217 (address word 0002)

DTC: P1A5B00 “Cooling oil valve, no basic setting” with symptom code 20832

Technical Background

After a repair, the routine for calibrating the cooling oil valve must be performed. Interruptions may occur. The routine is aborted as the value is outside the tolerance.

Production Solution

Not Applicable

Service



If the event memory entry “P1A5B00: Cooling oil valve, no basic setting” with symptom 20832 is logged after a repair to the transmission proceed as follows:

Compare the software part number/software version number of the transmission control module (TCM), J217 (address word 0002) (Figure 1) with the software part number/software version number in the SVM Table below. If the vehicle has an installed software part number and software version number in the SVM table perform repair option 1. If the vehicle doesn't have installed software part number and software version number in the SVM table perform repair option 2.

Address: 0002 System name: 0002 - Transmission Electronics (0CK/0CL S

- Identification:	
Data source:	Vehicle
Hardware part number:	0HL927156B
Part number:	4K0927153M
Hardware version number:	H01
Software version number:	0003

Figure 1. Software part number/software version

Repair Option 1:

SVM Update Instructions

- Follow all instructions in TSB 2011732: *00 Software Version Management (SVM), operating instructions*.
- Update the of transmission control module (TCM), J217 (address word 0002) using the SVM action code as listed in the table below, if necessary:

Model	Installed Software Part Number	Installed Software Version	New Software Part Number	New Software Version (or higher)	SVM Code Input
A4	8W2927155BP	0002	8W2927155BP	0003	02A222
A6/A7	4K0927153M	0003	4K0927153M	0007	
	4K0927153M	0005			

No further calibration is then required. The software delivers a default value. The vehicle can therefore be operated with immediate effect.

Repair Option 2:

If the software part number/software version number is not listed in the SVM table, the complete mechatronic unit must be replaced according to the repair manual instructions. It is not necessary to adapt the cooling oil valve for the mechatronic unit available.

After installing the new Mechatronics unit with the scan tool perform the following:

- Activate the new control unit using the Guided Function “0002 - Replace mechatronic unit (control unit)”.

Only perform the following basic settings according to ODIS:

- Calibration of position sensors -G487...G490-

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- Adaption of clutch kiss points.
- Calibration of gear sensor -> **only for 2016 and 2017 A6 2.0 Front Wheel Drive.**

Warranty

Claim Type:	• 110 up to 48 Months/50,000 Miles. • G10 for CPO Covered Vehicles – Verify Owner. • If the vehicle is outside any warranty, this Technical Service Bulletin is informational only.		
Service Number:	3511		
Damage Code:	0016		
Repair Option 1:			
Labor Operations:	Software update	0151 0000	Time stated on diagnostic protocol 50 TU (Max)
Diagnostic Time:	GFF – Checking and clearing fault codes included in existing labor operations	No allowance	0 TU
	Road test prior to service procedure	No allowance	0 TU
	Road test after service procedure	No allowance	0 TU
Repair Option 2:			
	Remove and install mechatronic unit (Plus predecessors and items that are included repair operations)	3511 19xx	See SRTs with associated operations
Diagnostic Time:	GFF – Checking and clearing fault codes included in existing labor operations	0150 0000	Time stated on diagnostic protocol 100 TU (Max)
	Road test prior to service procedure	No allowance	0 TU
	Road test after service procedure	No allowance	0 TU
Claim Comment:	As per TSB 2070167/1		

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

Always check with your Parts Department and/or ETKA for the latest information and parts bulletins.		
Part Number	Part Description	Quantity
See ETKA	Fasteners, Bolts, Nuts and Screws as needed per the Repair Manual	See ETKA/ELSA
See ETKA (Order to VIN)	Mechatronics unit (Repair Option 2)	01

Additional Information

All parts and service references provided in this TSB (**2070167**) are subject to change and/or removal.

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