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Technical Bulletin

Subject: After-run Coolant Pump, Activating (IB)

Group: 19

Number: 05-01

Model(s): S4 4.2L Sedan, Avant
(eng. code BHF)

2004, 2005

Date: Feb. 2, 2005

Instructions: Perform this procedure on all applicable vehicles within the Limited New Vehicle Warranty



Tip:

This Technical Bulletin is in effect for 15 months from date of publication as listed above. After that date, this Technical Bulletin will expire and no longer be in effect.

Condition

After-run coolant pump -V51- may not operate when the ignition is shut off and the coolant temperature is above 112° C.

This may be due to an after-run coolant pump -V51- which has not have been activated in the ECM.

Service

Requirements:

Vehicle must meet ALL of the following criteria.

- 1 - Procedure is valid only for vehicles that show the IB code in the OTIS View Campaign inquiry screen on the day of repair (see Page 5).
- 2 - Vehicle must be within the Limited New Vehicle Warranty.
- 3 - Procedure must be performed within the allotted time frame stated in this Technical Bulletin.



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Tip:

Procedure must also be performed on applicable vehicles in Dealer inventory.

Procedure:



Tip:

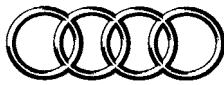
After coding the after-run coolant pump -V51- to operate as designed, the after-run coolant pump -V51- may run up to 15 minutes when signaled by the ECM (only if the coolant temperature is above 112 ° C when the ignition is switched off).

After-run coolant pump V51, activating :

- Connect VAS 5051 / 5052 Diagnostic tool.
- From VAS 5051 / 5052 start up screen, select "Vehicle self diagnosis".
- Select vehicle system "01 - Engine Electronics".

◀ - Select diagnosis Function "11 – Coding II".

Vehicle Self-Diagnosis	01 - Engine electronics
	ECM Part Number
Select diagnosis function	ECM description and software level
	Coding XXXXX
	Dealership number XXXXX
02 - Interrogate fault memory	
03 - Final control diagnosis	
04 - Basic settings	
05 - Erase fault memory	
06 - End output	
07 - Code control unit	
08 - Read data block	
09 - Reading individual measuring value	
10 - Adaption	
11 - Coding II	
16 - Access permission	
◀	Go to
	Print
	?
	⚠
	01-A303



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Vehicle Self-Diagnosis	01 - Engine electronics ECM Part Number ECM description & software level Coding XXXXX Dealership number XXXXX												
Enter code word max. input value = XXXXX													
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> XXXXXXXX <table border="1" style="border-collapse: collapse; text-align: center;"> <tr><td>1</td><td>2</td><td>3</td></tr> <tr><td>4</td><td>5</td><td>6</td></tr> <tr><td>7</td><td>8</td><td>9</td></tr> <tr><td>C</td><td>0</td><td>Q</td></tr> </table> </div>		1	2	3	4	5	6	7	8	9	C	0	Q
1	2	3											
4	5	6											
7	8	9											
C	0	Q											
<input type="button" value="Go to"/> <input type="button" value="Print"/> <input type="button" value="?"/> <input type="button" value="⚠"/>													
01-A304													

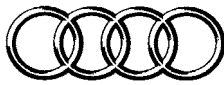
- ◀ - Similar screen appears.
- Input 60000 on keypad to “activate hot-country function”.
- Confirm by selecting the -Q- button.

Vehicle Self-Diagnosis	01 - Engine electronics ECM Part Number ECM description and software level Coding XXXXX Dealership number XXXXX
Select diagnosis function	
02 - Interrogate fault memory 03 - Final control diagnosis 04 - Basic settings 05 - Erase fault memory 06 - End output 07 - Code control unit 08 - Read data block 09 - Reading individual measuring value 10 - Adaption 11 - Coding II 16 - Access permission	
<input type="button" value="Go to"/> <input type="button" value="Print"/> <input type="button" value="?"/> <input type="button" value="⚠"/>	
01-A305	

- ◀ - Exit diagnosis function “11 - Coding II” by selecting the ◀ button.
- ◀ - Similar screen appears.
- Select diagnosis function “08 - Read measuring block”.

Vehicle Self-Diagnosis	01 - Engine electronics ECM Part Number ECM description & software level Coding XXXXX Dealership number XXXXX												
Enter code word max. input value = XXXXX													
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> XXXXXXXX <table border="1" style="border-collapse: collapse; text-align: center;"> <tr><td>1</td><td>2</td><td>3</td></tr> <tr><td>4</td><td>5</td><td>6</td></tr> <tr><td>7</td><td>8</td><td>9</td></tr> <tr><td>C</td><td>0</td><td>Q</td></tr> </table> </div>		1	2	3	4	5	6	7	8	9	C	0	Q
1	2	3											
4	5	6											
7	8	9											
C	0	Q											
<input type="button" value="Go to"/> <input type="button" value="Print"/> <input type="button" value="?"/> <input type="button" value="⚠"/>													
01-A304													

- ◀ - Similar screen appears.
- Input “132” on keypad to select “MVB 132”.
- Confirm by selecting the -Q- button.







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Vehicle Self-Diagnosis	01 - Engine electronics
08 - Read data block	ECM Part Number
	ECM description and software level
	Coding XXXXX
	Dealership number XXXXX
Read data block	
 10001000	
	Display Group
	132
	 
	Basic Settings
	<input type="button" value="Go to"/> <input type="button" value="Print"/> <input type="button" value="?"/> <input type="button" value="!"/>
01-A306	

- ◀ – Similar screen appears.
- Ensure bit position indicated by -arrow- for display “field 4” is “1” .
- ◆ 0 = after-run coolant pump -V51- is not activated.
- ◆ 1 = after-run coolant pump -V51- is activated. After-run coolant pump -V51- should be activated.

Vehicle Self-Diagnosis	01 - Engine electronics
	ECM Part Number
	ECM description and software level
	Coding XXXXX
	Dealership number XXXXX
Select diagnosis function	
02 - Interrogate fault memory	
03 - Final control diagnosis	
04 - Basic settings	
05 - Erase fault memory	
06 - End output	
07 - Code control unit	
08 - Read data block	
09 - Reading individual measuring value	
10 - Adaption	
11 - Coding II	
16 - Access permission	
	<input type="button" value="Go to"/> <input type="button" value="Print"/> <input type="button" value="?"/> <input type="button" value="!"/>
01-A305	

- Exit function: 08 – “Read measuring block” by selecting the ◀ button.
- ◀ – Similar screen appears.
- Select diagnosis function “03 - Final control diagnosis” (output test).
- ◆ Tests on components are run automatically by the VAS 5051/5052 diagnostic tool.

Vehicle Self-Diagnosis	01 - Engine electronics
03 - Final control diagnosis	ECM Part Number
Actuator is waiting	ECM description and software level
Continued switching is required	Coding XXXXX
	Dealership number XXXXX
EVAP Emission Control LPD Circuit	
Right Electro-Hydraulic Engine Mount Solenoid Valve -N145-	
Left Electro-Hydraulic Engine Mount Solenoid Valve -N14	
Bank2, Valve -2- for camshaft => adjustment -N208-	
Fan 2 Control Circuit	
Fan 1 Control Circuit	
Coolant Circulation Pump Relay -151-	
Measured values closed Coolant Circulation Pump Relay -J151-	
	<input type="button" value="Go to"/> <input type="button" value="Print"/> <input type="button" value="?"/> <input type="button" value="!"/>
01-A307	

- ◀ – Verify that after run coolant pump -V51- runs when activated by the Coolant pump relay -J151-.
- ◆ Pump -V51- is located behind and below left front headlight (listen for pump running).



Tip:

Customers should be advised of the after-run coolant pump -V51- activation and be made aware that they may hear the pump when it runs when the engine is shut off.



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Required Vehicle Update Technical Bulletin Time Requirements/ Reimbursement

To ensure prompt and proper payment, be sure to enter, immediately upon completion of the repair work, the applicable reimbursement code listed below. Claims will only be paid for vehicles that show the IB code in the OTIS View Campaign inquiry screen on the day of repair.

IB Data Entry Procedure Use Claim Type RC

Repair Code (Damage Code Field)	Time Units	Work Scope
IB 12	10 T.U.	(Activate after-run coolant pump -V51- using the VAS 5051 or 5052 Diagnostic tool)
There is <u>NO</u> Reimbursement for Vehicle Wash or Loaner Vehicle		

The system automatically enters parts and labor applicable to the above listed code.

For vehicles that, according to your information, cannot be corrected or reached, and one of the codes below best describe the reason, please enter one of the applicable codes into the system:

- IB 20 Customer Refused Repairs
- IB 30 Total Loss
- IB 40 Vehicle Stolen
- IB 50 Vehicle Exported

Additional Required Vehicle Update Technical Bulletins

Some of the affected vehicles may be involved in additional Required Vehicle Update Technical Bulletins. Please check your OTIS View Campaign inquiry screen so that any additional required work can be done simultaneously.

Required Vehicle Update Technical Bulletin Verification

For verification, always check the OTIS View Campaign inquiry screen. The OTIS system is the only binding inquiry and verification system; other systems are not valid and may result in non-payment of a claim.

Help for Claim Input

For questions regarding claim input, contact your appropriate Warranty Claim specialist.

Please do not contact the Campaign Helpline regarding claim input.

Required Customer Notification

Inform your customer in writing by recording on the Repair Order any and all work that was conducted on the vehicle, including any and all updates completed under this Technical Bulletin.