

## Technical Service Bulletin

80 Coolant loss from coolant valve, engine warning light on, "Limp Home" mode active, cabin heating is insufficient

80 14 06 2033806/5 March 11, 2014. Supersedes Technical Service Bulletin Group 80 number 13-05 dated September 11, 2013 for reasons listed below.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
A6 / A7	2012	000001 - 999999	Not Applicable
A6 / A7	2013	000001 - 155596	Not Applicable
A8	2010 - 2012	000001 - 999999	Not Applicable
A8	2013	000001 - 034562	Not Applicable
Audi Q7	2011 - 2013	000001 - 999999	Not Applicable
Audi Q7	2014	000001 - 000973	Not Applicable
A5 Cabriolet	2012 - 2013	000001 - 999999	Not Applicable
A5 Cabriolet	2014	000001 - 999999	Not Applicable
A5 Cabriolet	2014	900000 - 900019	Not Applicable
TT	2012 - 2014	000001 - 999999	Not Applicable
A4	2012 - 2013	N000001 - N999999	Not Applicable
A4	2014	N000001 - N000184	Not Applicable
A4	2012	A000001 – A999999	Not Applicable
A4	2013	A000001 – A247958	Not Applicable
Q5	2012 - 2014	000001 - 999999	Not Applicable
A5	2012	000001 - 999999	Not Applicable
A5	2013	000001 - 077920	Not Applicable
A5	2013	900000 - 903086	Not Applicable



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#### Condition

REVISION HISTORY				
Revision	Date	Purpose		
5	-	Revised title		
4	9/11/2013	Revised header data (Added model years)		
3	8/9/2013	Revised header data (Updated customer codes) Revised Required Parts and Tools (Updated part numbers)		
2	5/13/2013	Revised Warranty (Updated labor operations)		
1	5/9/2013	Initial publication		

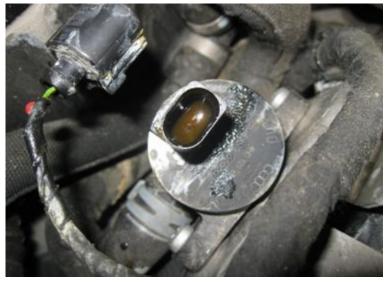
- The customer may have one or more of the following concerns:
  - · Malfunction Indicator Lamp is on.
  - Climate system heating performance is insufficient.
  - · Coolant level warning is on.
  - Engine temperature is elevated.
  - "Limp Home" mode is active.
- The results of the diagnosis based on the customer complaint may reveal one or more of the following:
  - One of the following faults is stored in the transmission control module (address word 02):
    - DTC P275300 (Transmission Fluid Cooler Control Circuit Open)
    - DTC P275500 (Transmission Fluid Cooler Control Circuit High)
  - Coolant loss is found from one or more control valves: N82, N509, or N488. Coolant may have migrated into
    the wiring harness through the connector and into various control units.
  - Climate system heating performance is insufficient due to coolant loss, or due to a faulty N82 control valve.

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### **Technical Background**

Inspection of the coolant control valves N82, N509, or N488 reveals the presence of coolant inside the electrical connector as shown in the illustration (Figure 1).



**Figure 1.** Coolant residue in the connector housing of the coolant regulating valve.

The connectors, wiring harness, and/or connected control units may have been damaged from exposure to coolant (Figure 2).



Figure 2. Corrosion formation on the connector pins.

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#### **Production Solution**

Improved coolant control valves are in development.

#### **Service**

- 1. Diagnose the defective coolant valve (N82, N509, or N488) using Guided Fault Finding where stored DTCs are found.
- 2. Replace the defective coolant valve.

**Tip**: Check the connectors, wiring harness, and connected control units for coolant damage. Perform repairs as necessary.

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### **Warranty**

Claim Type:	Use applicable claim type. If vehicle is outside any warranty, this Technical Service Bulletin is informational only.			
Service Number:	8015			
Damage Code:	0050			
Labor Operations:	See Elsa for the specific model being serviced for this concern:		concern:	
	For solenoid valve N82:			
	See Elsa for applicable lab	oor operations	XX TU	
	For solenoid valves N488 or N509:  See Elsa for applicable labor operations  XX TU			
			XX TU	
Diagnostic Time:	GFF	01 50 00 00	Time stated on diagnostic protocol (Max 50 TU)	
	Road test prior to service procedure	No allowance	0 TU	
	Road test after service procedure	No allowance	0 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 #2033806/5			

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**

Please reference ETKA using the VIN of the subject vehicle to ensure that the correct valve is being ordered.					
Part Number	Part Description	Quantity			
4H0121670A	Solenoid valve	1			
4H0121671D	Solenoid valve	1			



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#### **Additional Information**

All parts and service references provided in this TSB (2033806) are subject to change and/or removal. Always check with your Parts Department and service manuals for the latest information.