Technical Service Bulletin

01 MIL on (DTC P0491 and P0492)

01 15 11 2039899/1 March 3, 2015.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
Q7	2011 - 2015	All	3.0T engine

Condition

- MIL on.
- The following DTCs are stored in the engine control module (ECM), J623 (address word 01):
  - **DTC P0491** (Secondary Air System insufficient flow, Bank 1).
  - **DTC P0492** (Secondary Air System insufficient flow, Bank 2).

Technical Background

If the vehicle has been driven in deep water, water may have entered the secondary air pump and caused damage.

Production Solution

Improved secondary air pump.

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Service

1. In ODIS, perform the "Secondary Air System Check" in Basic Settings. If the secondary air pump does not run, or if it makes a damaged bearing noise, replace the pump.

   The pump has a different air hose connection and mounting points, so the intake and exhaust hose of the pump and the bracket must also be replaced (Figure 1, red).

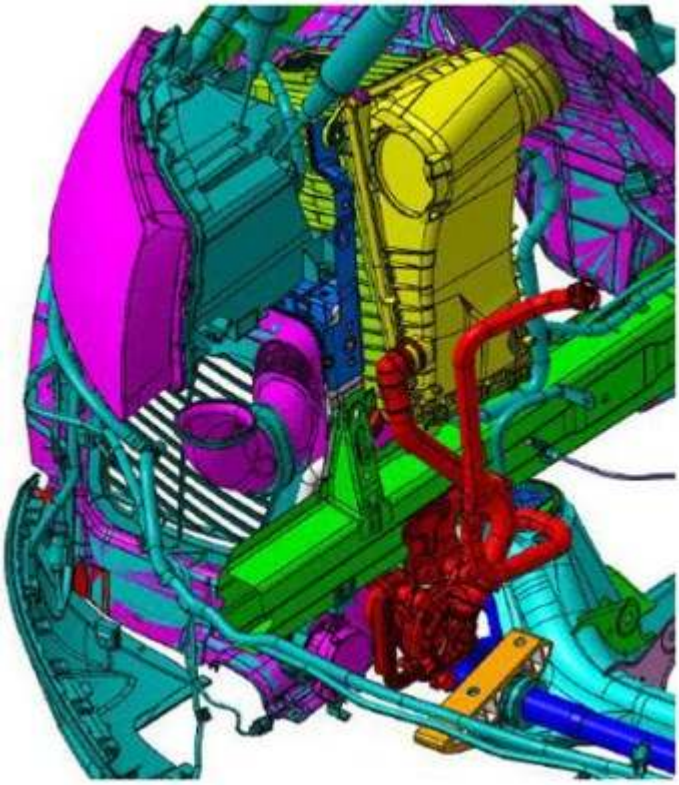


Figure 1. *All components highlighted in red must be replaced.*

2. For model year 2011 and 2012 vehicles only, check the ECM software level and update, if necessary, using the instructions below.

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.

Model	Engine	Old Software Part Number	Old Software Version	New Software Part Number	New Software Version	SVM Code Input
Q7 (MY11-12)	CJWB	4L0910551K	0010	4L0910551K	0040	01A092
	CJWC	4L0910551A	0010	4L0910551A	0050	
	CJWE	4L0910551J	0010	4L0910551J	0040	

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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:	2665		
Damage Code:	0010		
Labor Operations:	Secondary air pump (and additional parts) replace	2665 1999	80 TU
	SVM software update for MY11-12, if needed	2470 2599	40 TU
Diagnostic Time:	GFF	0150 0000	Time stated on diagnostic protocol (Max 20 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 # 2039899/1		

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

Part number	Part Description	Quantity
7L0131625G	Exhaust hose	1
7L0131625F	Intake hose	1
4L0959231	Pump	1
7L0906287B	Bracket	1

Additional Information

All parts and service references provided in this TSB (2039899) are subject to change and/or removal. Always check with your Parts Department and service manuals for the latest information.

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