

Technical Service Bulletin



01 MIL on, A8 4.2 FSI, P0491 or P0492 secondary air system bank 1/2 Insufficient flow - Repair Authorization

01 12 65 2030230/2 December 21, 2012. Supersedes Technical Service Bulletin Group 01 number 12-52 dated July 23, 2012 for reasons listed below.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
A8	2011-2012	All	4.2L TFSI

Condition

REVISION HISTORY		
Revision	Date	Purpose
2	-	Revised header data (corrected VIN range)
1	8/13/2012	Original Publication

Engine warning light on

Entries:

P0491 – secondary air system bank 1, Insufficient flow

P0492 – secondary air system bank 2, Insufficient flow

Technical Background

Because of an insufficient vacuum during the catalyst heating phase, the secondary air valves may close prematurely.

Production Solution

Not applicable.

Service

Check the complete vacuum system for leaks:

1. Connect a hand vacuum pump with gauge on marked point (Figure 1, arrow).

If the vacuum cannot be kept, check all pipes of the vacuum system and the changeover valves for leaks.

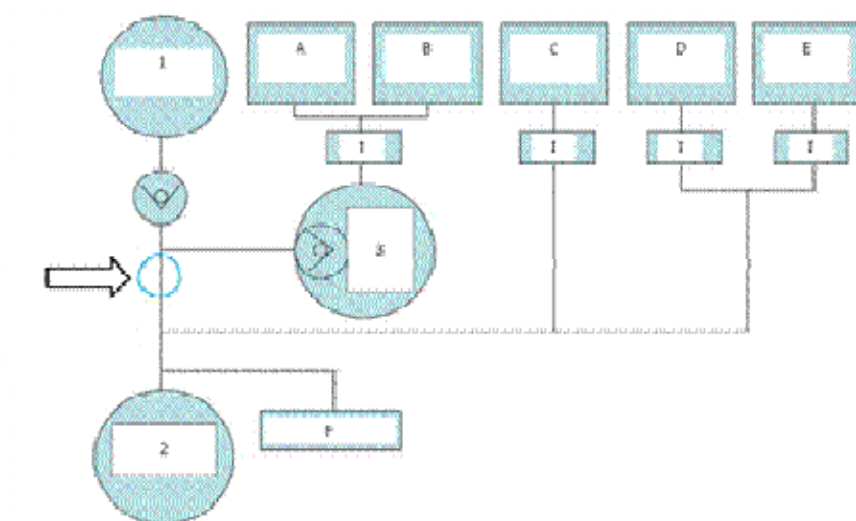


Figure 1. Vacuum system. (A) Operation of left charge-motion control valve. (B) Operation of right charge-motion control valve. (C) Operation of intake manifold control valve. (D) Left secondary air valve. (E) Right secondary air valve. (F) Electric changeover valve for engine thermo management (coolant valve on cylinder head). (1) Vacuum from intake manifold. (2) Vacuum reservoir of cylinder head (0.9 l). (3) Vacuum reservoir in inner V (0.7 l).

2. Check the connection between changeover valve N489 and vacuum regulator for the cylinder head coolant valve for leaks (Figure 2, arrow).



Figure 2. Vacuum hose not connected.



Note:

If no leak or fault is found create a TAC ticket using the Technical Assistance Center System in ElsaWeb, including diagnostic log.

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.

Warranty

This TSB is informational only and not applicable to any Audi warranty.

Additional Information

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