

Technical Service Bulletin



01 MIL on (DTC P2006(00) or P2007(00))

01 13 20 2033919/9 August 2, 2013. Supersedes Technical Service Bulletin Group 01 number 13-16 dated July 19, 2013 for reasons listed below.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
A6, A7, S4, S5, S5 Cab, Q7, Q5	2013	All	3.0 FSI Engine

Condition

REVISION HISTORY		
Revision	Date	Purpose
9	-	Revised <i>Service</i> (Added steps) Revised <i>Warranty</i> (Updated labor operations)
8	7/19/2013	Revised <i>Required Parts and Tools</i> (Updated part numbers)
7	7/9/2013	Revised header data (Added model year)
6	6/26/2013	Revised <i>Service</i> (Replace both actuators)
5	6/18/2013	Revised <i>Required Parts and Tools</i> (Updated quantity)
4	6/7/2013	Revised <i>Service</i> (Removed step regarding calling TAC)
3	5/29/2013	Revised header data (updated engine codes)
2	5/28/2013	Revised <i>Service</i> (Added steps and image)
1	5/16/2013	Initial publication

- MIL on.
- One or both of the following DTCs is stored in the engine control module, J623 (address word 01):
 - **DTC P2006(00)** (Intake Manifold Runner Control Stuck Closed, Bank 1).
 - **DTC P2007(00)** (Intake Manifold Runner Control Stuck Closed, Bank 2).
- There may be slight power reduction at high RPMs.

Technical Background

One of the vacuum actuators on intake runner bank 1 or bank 2 is defective. It is possible that the membrane on the vacuum actuator may tear. As a result, the intake manifold flaps do not function.

Production Solution

Updated vacuum actuator.

Service

1. Ensure that the fault is not caused by a defective vacuum line by using the vacuum pump (Figure 1) to confirm there is no leak in the vacuum supply to the actuators.

The vacuum lines are working correctly if they are able to maintain vacuum while the actuators are disconnected and the lines are plugged up.

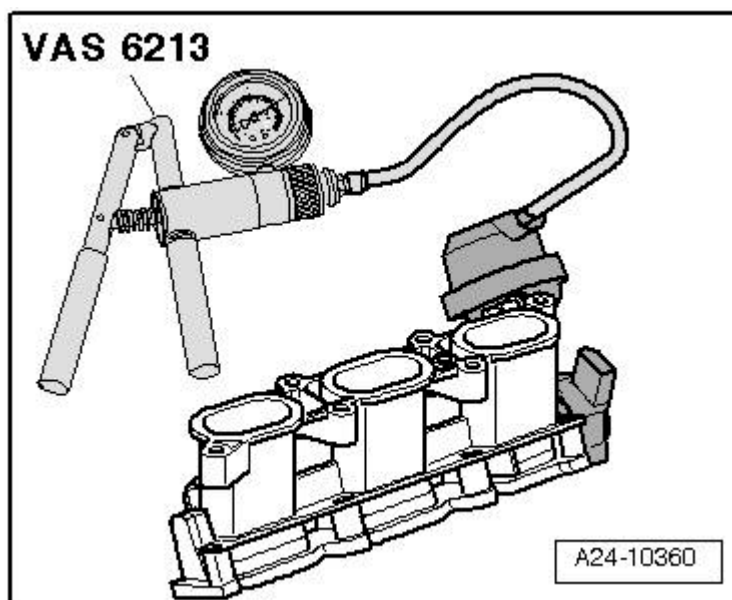


Figure 1. Vacuum pump VAS 6213

2. After confirming that the fault is not due to defective vacuum lines, replace **both** vacuum actuators (bank 1 and bank 2 actuator) by following the instructions below. Both actuators must be replaced in order to prevent any repeat repairs.

Replacing the passenger side vacuum actuator

1. Unclip the secondary air injection line from the bracket (Figure 2, 1) and disconnect the coupling (Figure 2, 2) by pushing both release tabs at the same time (one in the front one in the back).

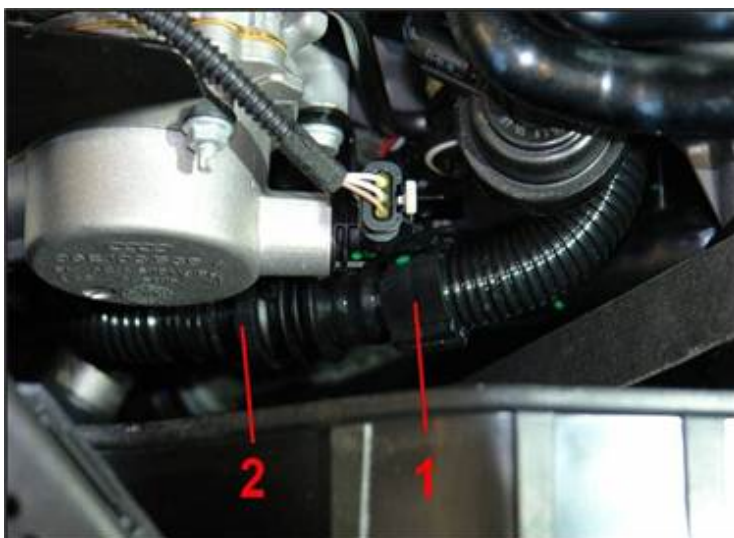


Figure 2. Bracket (1) and coupling (2) to disconnect from the secondary air injection line

2. Remove the intake manifold runner position sensor by using a ball head torx bit to remove the bolts (Figure 3, arrows).

! Note:

To prevent the sensor from falling, do not disconnect the connector.

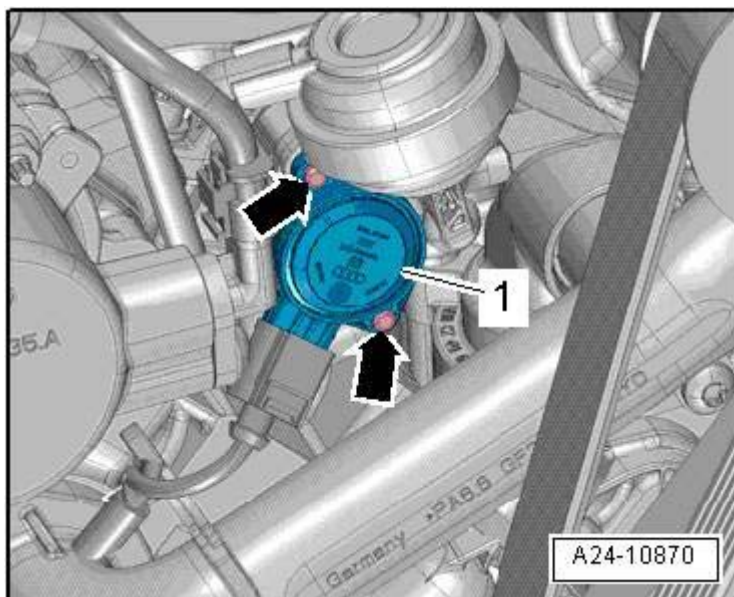


Figure 3. Intake manifold sensor (1) and bolts (arrows)

3. Disconnect the vacuum hose (Figure 4, 1), then pry the vacuum actuator (Figure 4, 2) off of the ball head (Figure 4, 3).

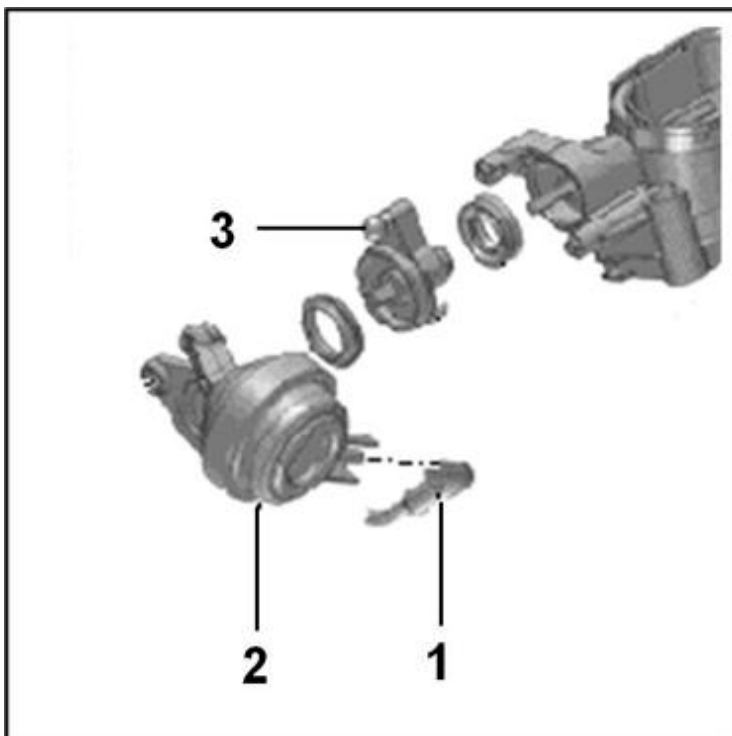


Figure 4. Vacuum hose (1), vacuum actuator (2), and ball head (3)

4. Reinstall the new actuator by following the above steps in reverse order.

Replacing the driver side vacuum actuator

1. Raise the vehicle and remove the front noise insulation panel.
2. Remove the screw (Figure 5, arrow) from the coolant line and upper section of oil pan. This will allow the coolant lines to be moved out of the way when removing the sensor.

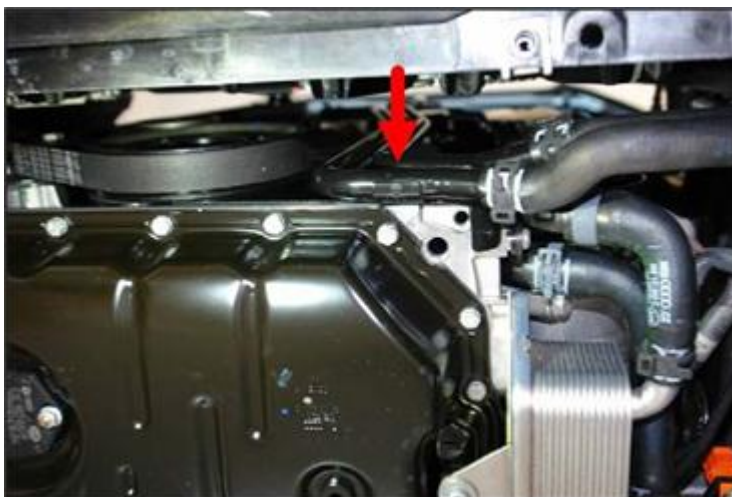


Figure 5. Screw to be removed from coolant line and upper section of oil pan (arrow)

3. Place the drip tray for workshop crane VAS 6208 under the engine.

4. Disconnect the following (Figure 6):

- Charge air pressure sensor
- Engine coolant temperature sensor
- Camshaft position sensor
- Solenoid valve

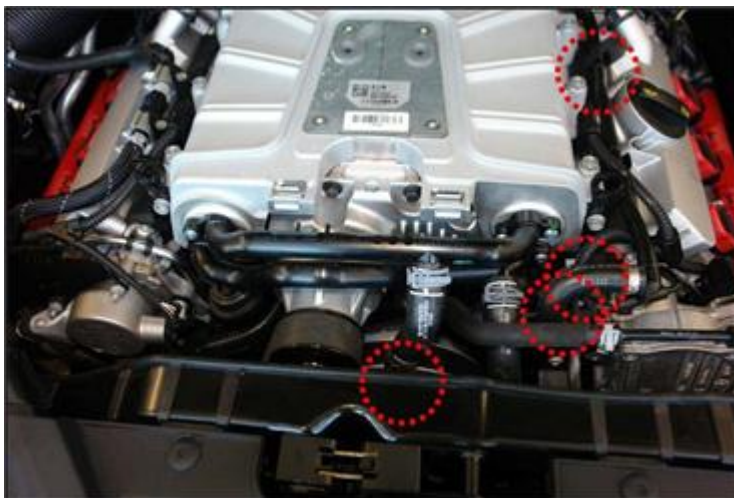


Figure 6. Sensors that need to be disconnected are circled in red.

5. Lay the wiring harness aside.

6. Disconnect the vacuum hose (Figure 7, arrow) from the vacuum pump and lay it aside.

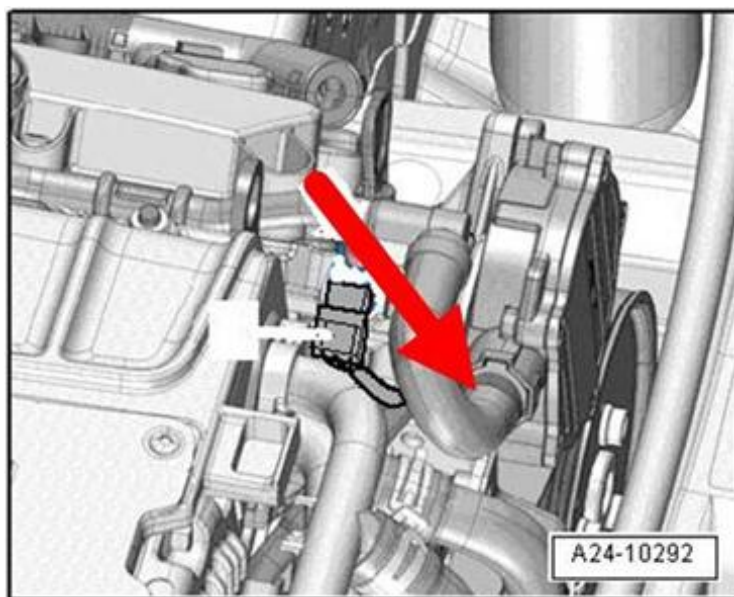


Figure 7. Vacuum hose (arrow)

7. Remove the bolt as shown in the image at right (Figure 8, 2)

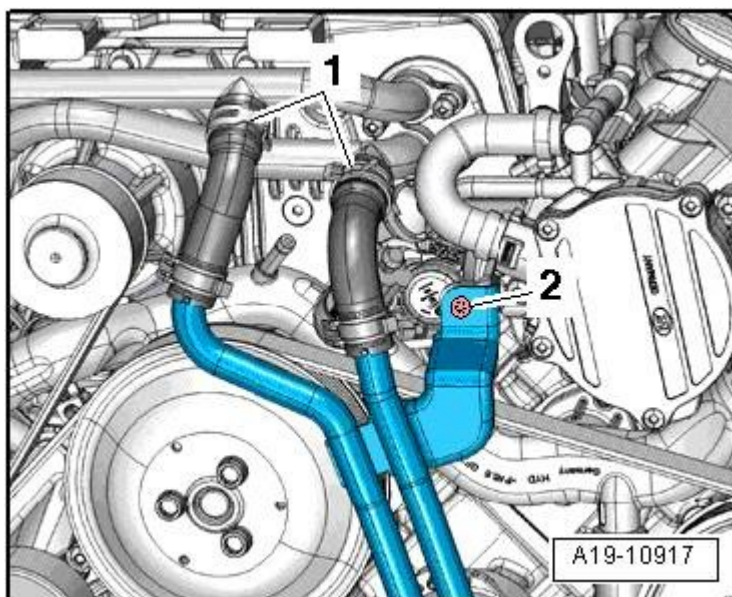


Figure 8. Bolt to be removed (2)

8. Remove coolant hoses (Figure 9, arrows) and close them off with fitting caps (yellow caps from VAS 6122). Move the coolant hoses to the side for access to the intake runner position sensor.

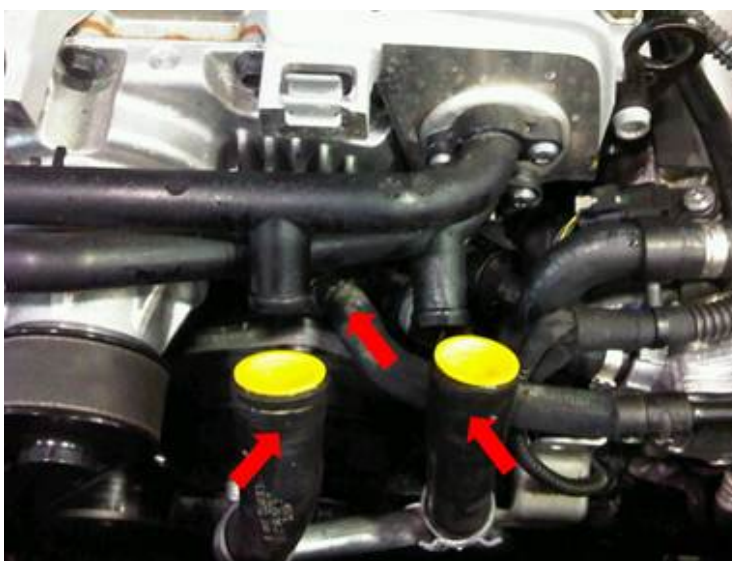


Figure 9. Coolant hoses (arrows)

9. Collect any coolant that is draining.

10. Remove the intake manifold runner position sensor by using a ball head torx bit to remove the bolts (Figure 10, arrows).



Tip: Use a non-bonding adhesive on the tip of the ball torx bit.



Note:

To prevent the sensor from falling, do not disconnect the connector.

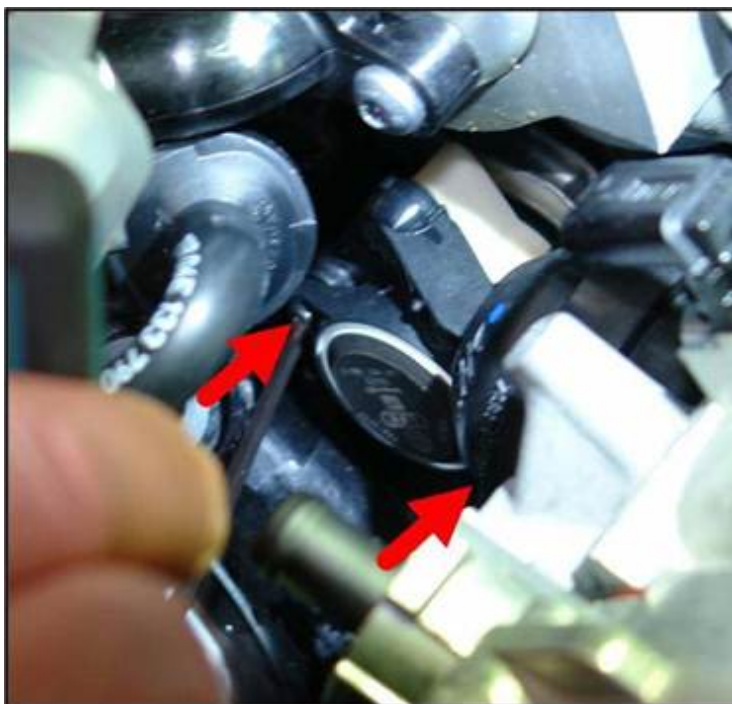


Figure 10. Bolts to be removed (arrows)

11. Pry the vacuum actuator (Figure 11, 2) off of the ball head (Figure 11, 3), then disconnect the vacuum hose (Figure 11, 1).

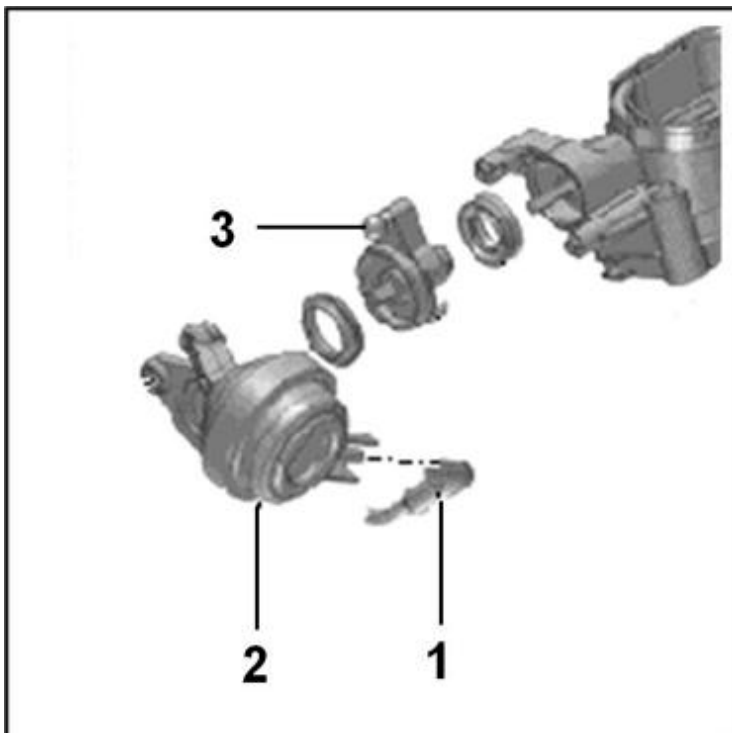


Figure 11. Vacuum hose (1), vacuum actuator (2), and ball head (3)

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12. Reinstall the new actuator by following the above steps in reverse order.

13. Top off coolant, if necessary.

Warranty

Claim Type:	Use applicable claim type. If vehicle is outside any warranty, this Technical Service Bulletin is informational only.		
Service Number:	2464		
Damage Code:	0010		
Labor Operations:	Both vacuum actuators remove+reinstall	2464 2099	90 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 # 2033919/9		

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
06E133159M	Actuator left	1
06E133159N	Actuator right	1
G 012A8G1G	Coolant top-off	0.3
N 10201801	Clamp	1

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Tool Number	Tool Description
VAS 6213	Vacuum pump
VAS 6122	Coolant hose cap-off set

Additional Information

All parts and service references provided in this TSB (2033919) are subject to change and/or removal. Always check with your Parts Department and service manuals for the latest information.