

Technical Service Bulletin



24Z6 UPDATE – Manifold Actuator (NVLW)

August 26, 2013

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
A6, A7, A8, Q7, A5 Cab, A4, Q5, A5	2013-2014	See Campaign/Action screen in ElsaWeb	None

REVISION HISTORY		
Revision	Date	Purpose
1	August 6, 2013	Original publication
1	August 26, 2013	Additional tool added and work procedure updated

Condition

This Update has been proactively released to prevent the following condition from occurring in the vehicle:

On Audi vehicles with a 3.0L TFSI engine produced during a certain period, it is possible that the membrane on the vacuum actuator for the intake manifold flaps may tear. As a result, the intake manifold flaps do not function and the engine indicator light turns on.

This Update is in effect until removed.

Vehicle must meet all of the following criteria:

- Procedure is valid only for vehicles that show the **24Z6** code in the ElsaWeb Campaign/Action Information screen on the day of repair.
- Vehicle must be within the New Vehicle Limited Warranty.
- Procedure must be performed within the allotted time frame stated in this Technical Service Bulletin.
- Procedure must be performed on applicable vehicles in dealer inventory prior to sale.

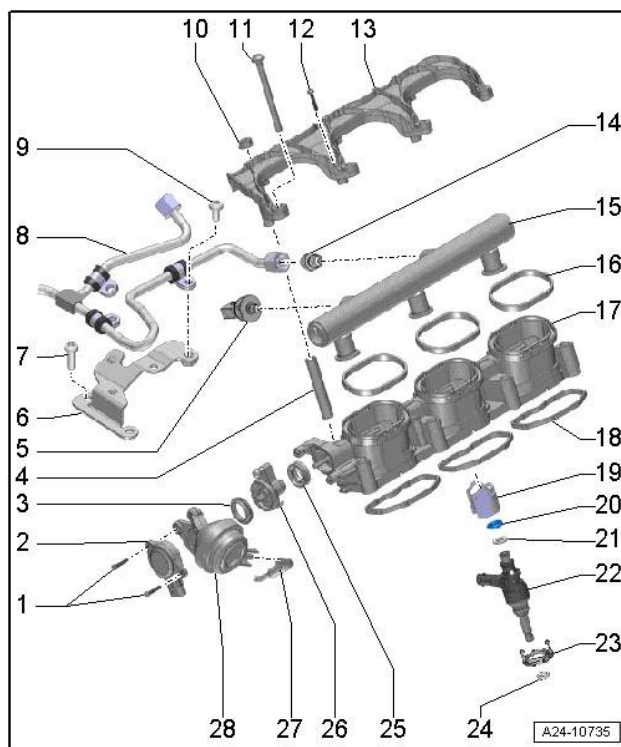
Technical Background

On Audi vehicles with a 3.0L TFSI engine produced during a certain period, it is possible that the membrane on the vacuum actuator for the intake manifold flaps may tear. As a result, the intake manifold flaps do not function and the engine indicator light turns on.

Service

Component Location

28 – Vacuum actuator



Tools

T10 Ball Head Torx Bit

Sourced locally – see examples below:

- Snap-on: SDM32KT or SDMBT10
- VIM Tools: VIS108 or VIS112
- Wiha Tools: 36632 or 36692 or 36689

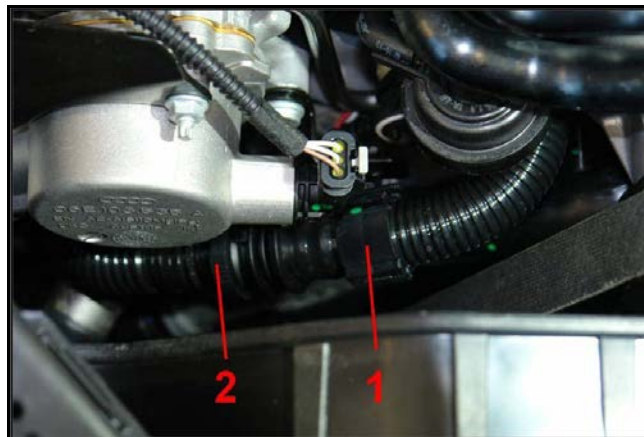


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Replacing the passenger side vacuum actuator

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



2. Place shop rag under screws to help catch if dropped.
3. Remove the intake manifold runner position sensor by using ball head torx bit to remove the bolts <arrows>.



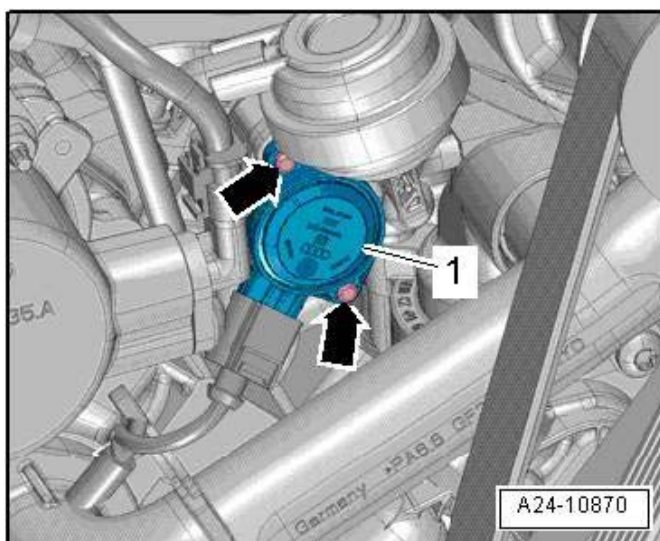
Tip: Use a non-bonding adhesive on the tip of the ball torx bit.



Tip: To prevent from losing the bolts use a magnet to hold the screw during removal.

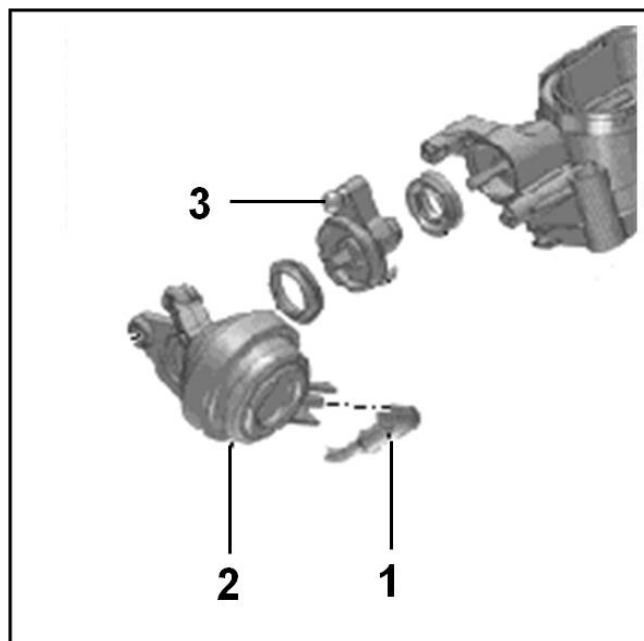


Tip: To prevent the sensor from falling, do not disconnect the connector.



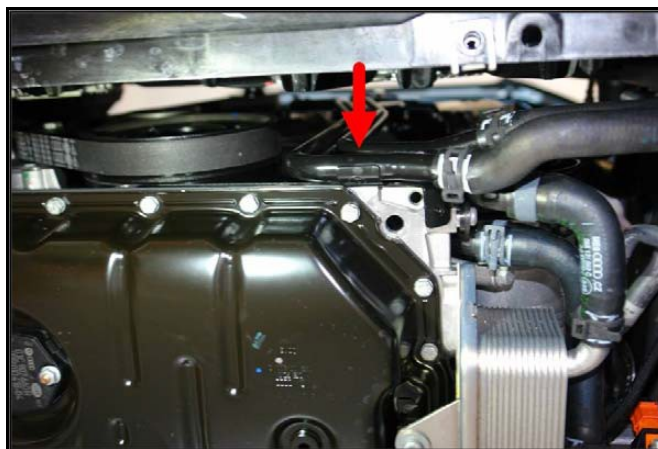
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4. Disconnect the vacuum hose <1>, then pry the vacuum actuator <2> off of the ball head <3>.
5. Reinstall the new actuator by following the above steps in reverse order.



Replacing the driver side vacuum actuator

1. Raise vehicle and remove the front noise insulation panel.
 2. Remove screw <arrow> from the coolant line and oil pan upper section.
-  **Tip:** This will allow the coolant lines to be moved out of the way while removing the sensor.
3. Place the drip tray for workshop crane VAS 6208 under the engine.



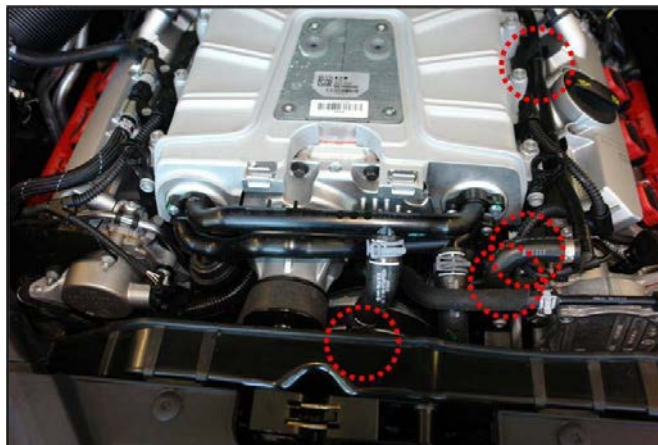
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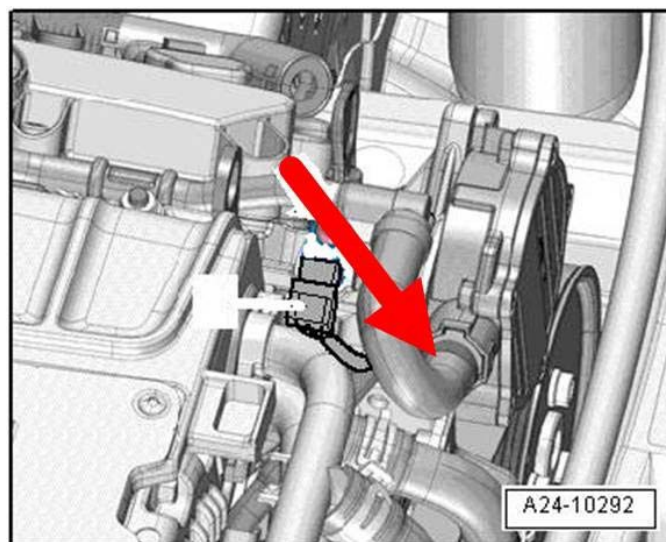
4. Disconnect the following connectors:

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

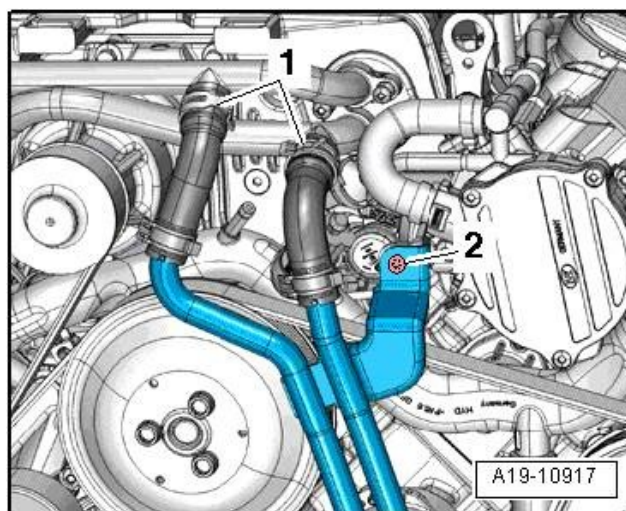
5. Lay the wiring harness aside.



6. Disconnect the vacuum hose <arrow> from the vacuum pump and lay it aside.



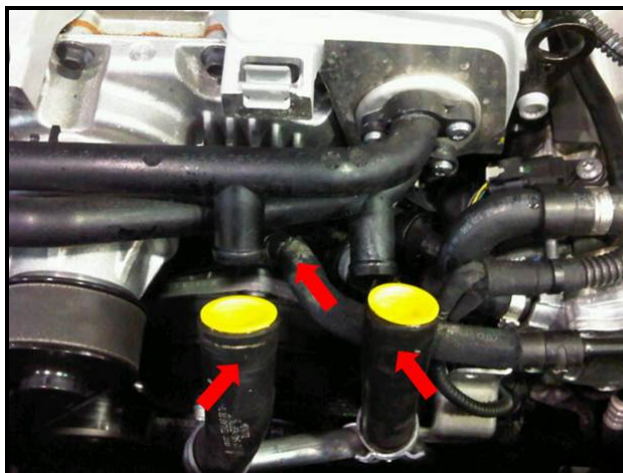
7. Remove the bolt <2>.



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8. Remove coolant hoses <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.
9. Collect any coolant that is draining.



10. Place shop rag under screws to help catch if dropped.



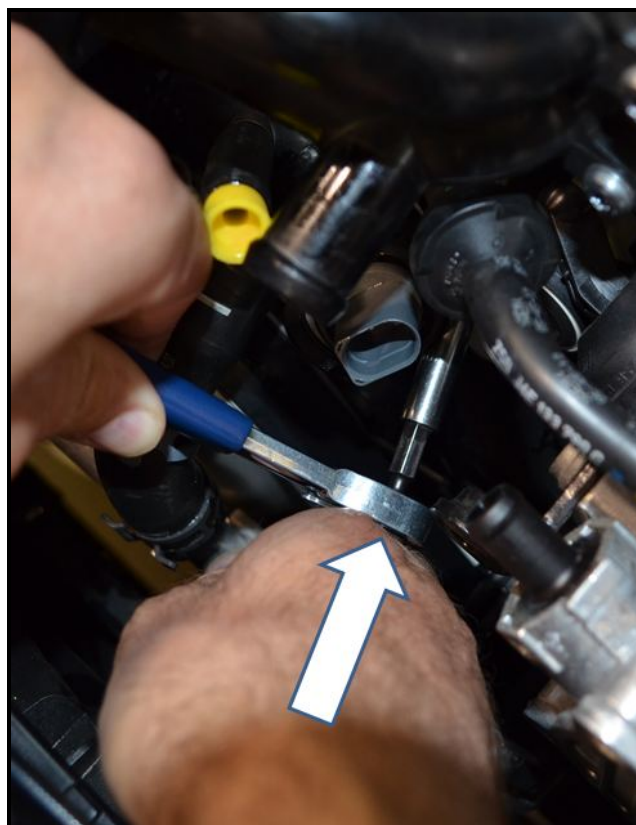
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11. Remove the intake manifold runner position sensor by using a ball head torx bit to remove the bolts. To ensure good torx bit to bolt head contact, apply force in the direction of <arrow> while removing the bolts.

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

 **Tip:** To prevent from losing the bolts use a magnet to hold the screw during removal.

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

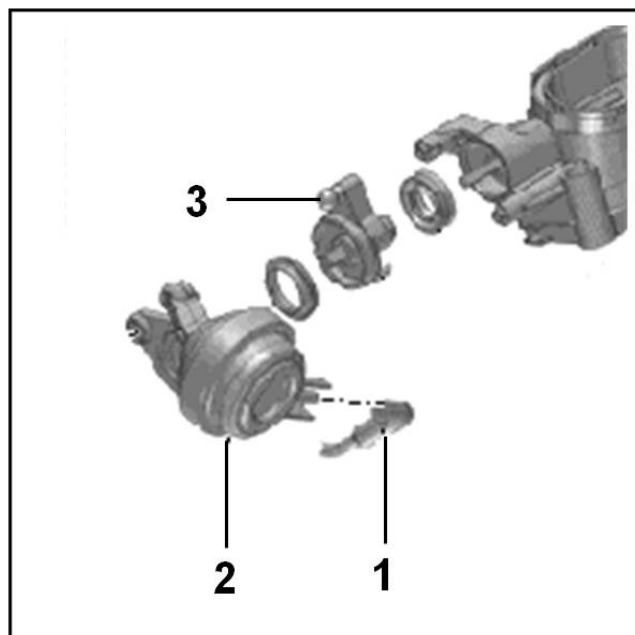


 **Tip:** To prevent from losing the bolts use a magnet <arrow> to hold the screw during removal.

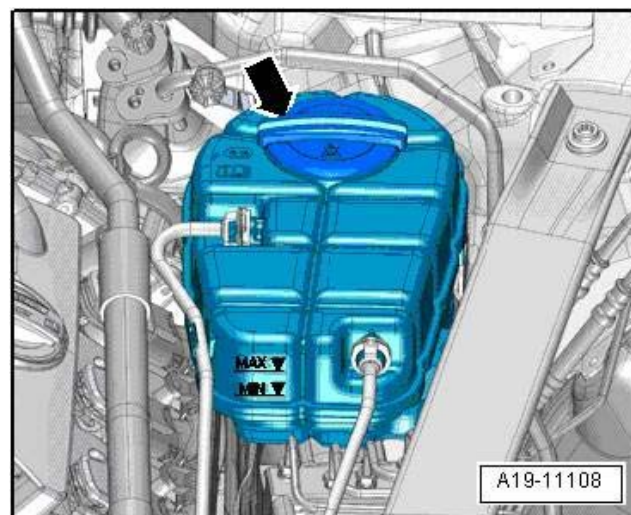


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12. Pry the vacuum actuator <2> off the ball head <3>, then disconnect the vacuum hose <1>.



13. Reinstall the new actuator by following the above steps in reverse order.
14. Top off coolant, if necessary.



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Warranty

Update Time Requirements/ Reimbursement	To ensure prompt and proper payment, be sure to immediately enter the applicable reimbursement code listed below upon completion of the repair work. Claims will be paid only for vehicles that show the 24Z6 code in the ElsaWeb Campaign/Action Information screen on the day of repair.		
24Z6 Saga Claim Entry Procedure			
Check ElsaWeb to determine whether Update 24Z6 is open.			
Service No.: 24Z6			
Damage Code: 0099			
Parts Manufacturer - Removed part: 002			
Claim Type			
Sold vehicle = 7 10			
Unsold vehicle = 7 90			
Saga Accounting Instructions			
Criteria ID	Repair operation	Labor Operation Number	TU
All	Install new manifold actuator	2464 2099	90
Criteria ID	Part Number	Part Description	Quantity
All	06E133159M	Left vacuum actuator	1
	06E133159N	Right vacuum actuator	1
	N 10201801	Clamp	1
	G 013A8JS0	Coolant additive	3

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There is no reimbursement for vehicle wash or loaner vehicle.

If the vehicle is outside of the specified warranty period, the customer has the option to pay for the repair.

If the customer agrees to pay for the repair:

Fax the information to (248) 754-5093 and provide VIN, applicable Service Number, Customer Info, Dealer Number and Date.

Additional Actions Some of the affected vehicles may be involved in additional Actions. Please check your ElsaWeb Campaign/Action Information screen so that any *additional required work can be done simultaneously*.

Update Verification For verification, *always* check the ElsaWeb Campaign/Action Information screen. The ElsaWeb 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 the Warranty Helpline.

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 Update.

Required Parts and Tools

Part Number	Part Description	Quantity
06E133159M	Left vacuum actuator	1
06E133159N	Right vacuum actuator	1
N 10201801	Clamp	1
G 013A8J1G	Coolant additive	0.3 qt

Tool Number	Tool Description
VAS 6122	Coolant hose cap-off set
T10 Ball Torx	Sourced locally – see examples below: - Snap-on: SDM32KT or SDMBT10 - VIM Tools: VIS108 or VIS112 - Wiha Tools: 36632 or 36692 or 36689

- Properly destroy and dispose of removed parts in accordance with all state and local requirements, unless otherwise indicated and/or requested through SAGA.
- If you have exhausted your allocated parts and you require additional parts for vehicles affected by this Update but have exceeded your Upper Order Limit, please submit your requests for additional parts via email to upperorderlimits@audi.com. Be sure to include the affected VINs with your order. Prior to submitting your request, ensure that each vehicle has the **24Z6** code open in ElsaWeb. Your order will be reviewed and processed accordingly.

Additional Information

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