

Technical Service Bulletin



01 MIL on P2015, P2020

01 12 55 2030192/1 October 22, 2012.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
S5	2008	000001 - 999999	4.2 FSI
S5	2009	000001 - 025001	4.2 FSI
A6	2007-09	000001 - 999999	4.2 FSI
S6	2007-11	000001 - 999999	5.2 FSI
A8	2007	000001 - 999999	4.2 FSI
A8	2008	000001 - 999999	4.2 FSI
A8	2009	000001 - 009301	4.2 FSI
S8	2007-09	000001 - 999999	5.2 FSI
Q7	2007	000001 - 999999	4.2 FSI
Q7	2008	000001 - 999999	4.2 FSI
Q7	2009	000001 - 025001	4.2 FSI

Condition

Customer statement: MIL light on.

Workshop findings:

P2015 sender of intake manifold flap position/air flow control, implausible signal

P2020 sender of intake manifold flap position, intake manifold flap 2, implausible signal

Engine may have reduced performance without significant loss of power or stalling

Technical Background

Check service history to see if the improved “ B” suffix V157 Intake Flap motor has already been installed previously; **if yes, only replace the potentiometer seals as described below.**

The fault entry is made because a linkage of the intake manifold flap adjustment sticks.

This is caused by deformed oil seal behind the potentiometers.

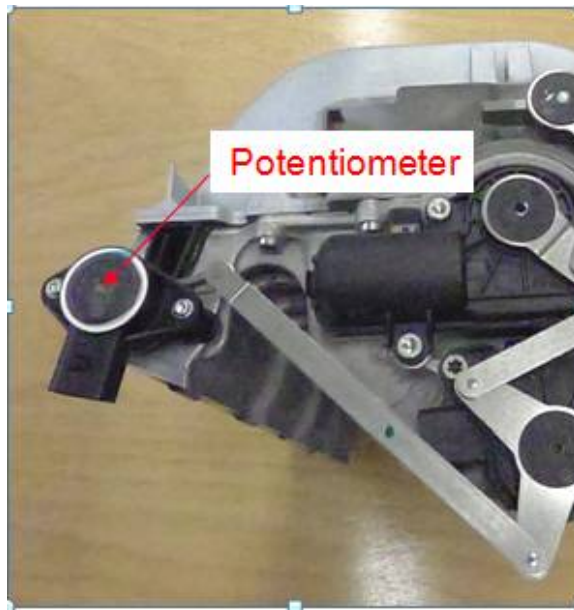


Figure 1. Deformed oil seal behind potentiometer.

When the potentiometer is removed, the oil seal can be seen, as shown in Figures 2 and 3.

- Figure 2 shows a correct oil seal.
- Figure 3 shows a deformed oil seal which causes the sticking.

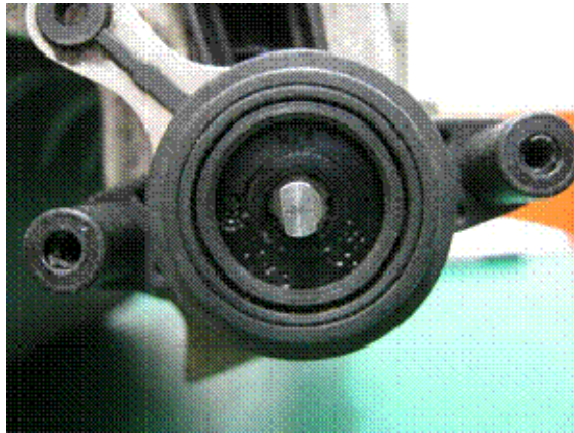


Figure 2. Correct oil seal.



Figure 3. Deformed seal.

Production Solution

Not applicable.

Service

1. Replace the oil seal with the part number and potentiometer seals according to the following instructions:

To avoid sticking linkage in future, remove the seal spring *before* installation as follows:



Tip: Do not use a screwdriver or another tool to remove the spring to avoid damage to the sealing lip.



Figure 4. Removing spring.

2. Remove the potentiometer of the intake manifold by removing the two M4x14 bolts and check the potentiometer and its flange for damage.

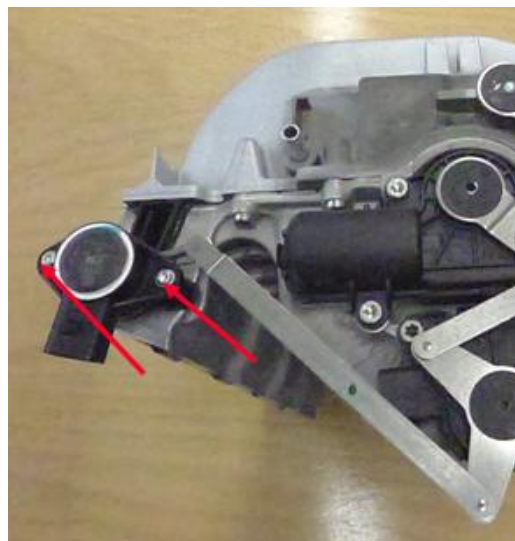


Figure 5. Two M4x14 bolts.

3. Remove the seal ring with a screwdriver. To do this, push the screwdriver under the seal and gently remove seal. (Figure 6).



Figure 6. Removing seal ring.

4. Clean the potentiometer seal mounting area and oil the surface lightly with 10W40 motor oil.
5. The open side of the seal faces the potentiometer. Press the seal ring into seal mount firmly with your fingers, confirm seal is fully inserted. Observe the position, see Figure 7.

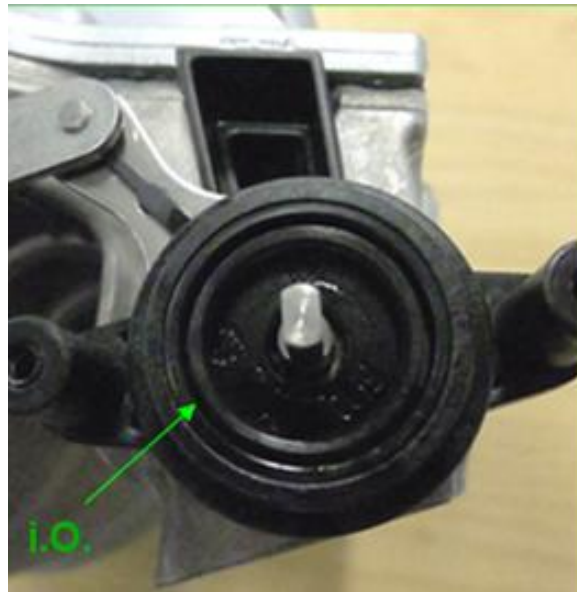


Figure 7. Correct position.

Technical Service Bulletin



6. Lightly oil the potentiometer before the installation.

Oil the sensor on the contact surfaces, observe Figure 8. Also, apply oil on the contact surface of inner ring of the lip seal ring with engine oil 10W/40.



Figure 8. Lightly oiled sensor.

7. Fit the potentiometer.

Fit the sensor with a **light** turning movement and attach it with 2 bolts (M4X14), tightening torque 1.7Nm + 0.2 Nm. Figure 9.

After linkage is re-assembled run the intake manifold runner flap adaption in Guided Functions.

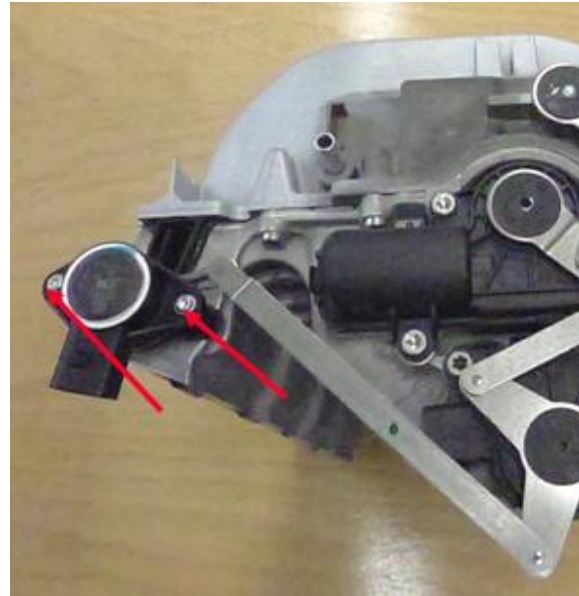


Figure 9. Tightening torque.

Warranty

Claim Type:	Use applicable claim type. If vehicle is outside any warranty, this Technical Service Bulletin is informational only.
Service Number:	2465
Damage Code:	0040

Technical Service Bulletin



Labor Operations:	Modify seal ring + remove and reinstall seals	24 65 31 99	10 TU
	A6 – Variable intake manifold flap potentiometers remove + install	24 65 20 19	40 TU
	A6 Air Flap Drive unit remove & replace, replace only if improved “ B” suffix part was not already installed	24 90 19 19	40 TU
	A8 – Variable intake manifold flap potentiometers remove + install	24 65 20 19	40 TU
	A8 Air Flap Drive unit remove & replace, replace only if improved “ B” suffix part was not already installed	24 90 19 19	30 TU
	Audi Q7 – Variable intake manifold flap potentiometers remove + install	24 65 20 19	40 TU
	Audi Q7 Air Flap Drive unit remove & replace, replace only if improved “ B” suffix part was not already installed	24 90 19 19	40 TU
	S5 - Variable intake manifold flap potentiometers remove + install	24 65 20 69	20 TU
	S5 Air Flap Drive unit remove & replace, replace only if improved “ B” suffix part was not already installed	24 90 19 73	20 TU
	S5 – Intake manifold remove + reinstall	24 47 19 19	190 TU
	S6 - Variable intake manifold flap potentiometers remove + install	24 65 19 73	10 TU
	S6 Air Flap Drive unit remove & replace, replace only if improved “ B” suffix part was not already installed	24 90 19 73	10 TU
S6 - Radiator remove + reinstall	19 70 19 23	250 TU	



Audi

Technical Service Bulletin

	S8 - Variable intake manifold flap potentiometers remove + install	24 65 19 73	10 TU
	S8 Air Flap Drive unit remove & replace, replace only if improved “ B” suffix part was not already installed	24 90 19 73	10 TU
	S8 - Radiator remove + reinstall	19 70 19 23	250 TU
Diagnostic Time:	GFF – Checking and clearing fault codes included in existing labor operations	0150 0000	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 #2030192/1		

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
036 133 696 C	Potentiometer seal	2
Per ETKA	S5 -Intake manifold gaskets	2
079 129 086 B	V8 FSI – V157 intake flap motor (lower) , replace only if improved “ B” suffix part was not already installed	1
07L 129 086 B	V10 FSI – V157 intake flap motor (lower), replace only if improved “ B” suffix part was not already installed	1

Technical Service Bulletin



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.