# 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



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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.

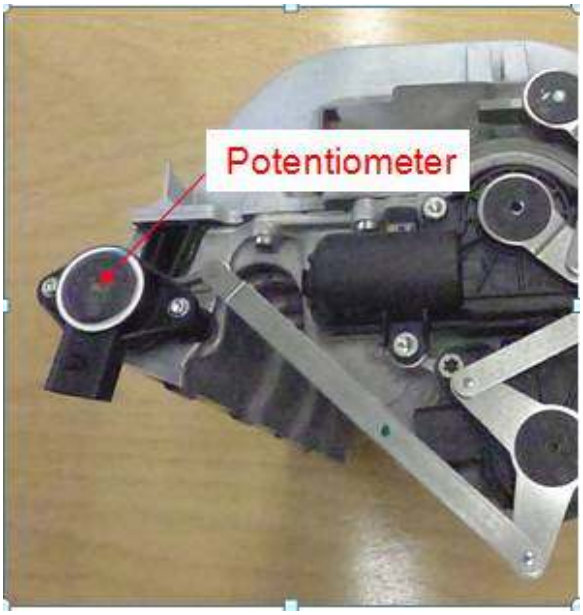



***Figure 1.*** *Deformed oil seal behind potentiometer.*



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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.

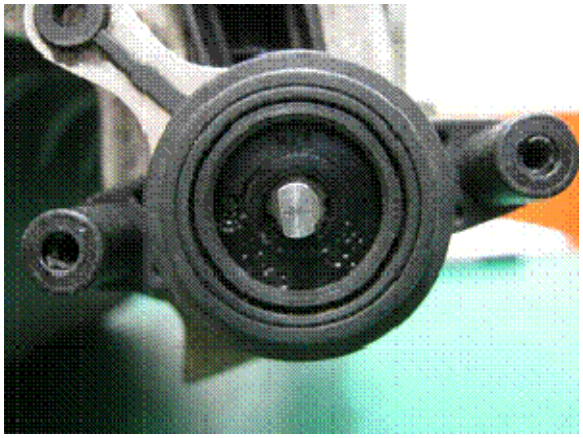


***Figure 2.*** *Correct oil seal.*



***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:



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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.

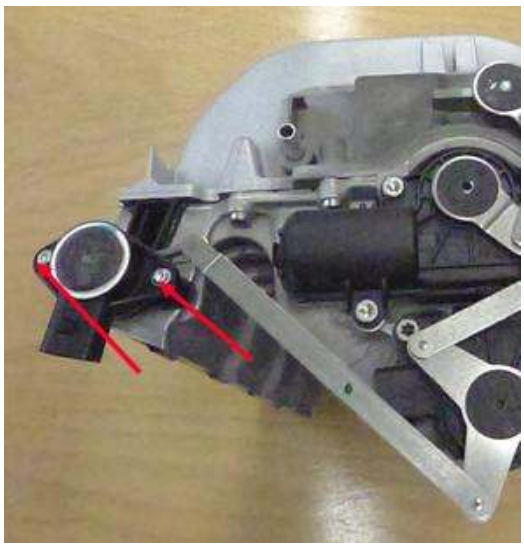


***Figure 5.*** *Two M4x14 bolts.*



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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.*



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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.

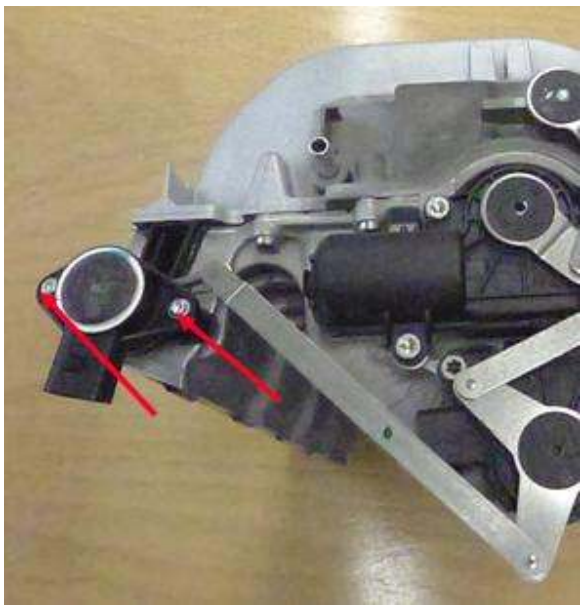


*Figure 9. Tightening torque.*

## 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 |



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| | | | |
|---|---|---|---|
| **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 |



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| | | | |
|---|---|---|---|
| | 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<br>(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 |



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## 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.



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