



Technical Service Bulletin

46 Q7 MY17 Squeal from front brakes

46 19 07 2050735/5 March 15, 2019. Supersedes Technical Service Bulletin Group 46 number 18-02 dated November 21, 2018 for reasons listed below.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
Q7	2017	All	With disc brakes in front

Condition

REVISION HISTORY		
Revision	Date	Purpose
5	-	Revised <i>Service</i> (Updated Step 4 and Tip) Revised <i>Required Parts and Tools</i> (Updated Note)
4	11/21/2018	Revised <i>Warranty</i> (Updated Labor Operations)
3	09/04/2018	Revised <i>Warranty</i> (Updated TU) Revised <i>Required Parts and Tools</i> (Removed remark)

Customer reports hearing a squealing noise (1.6 KHz) from the front brakes in the following conditions:

- Slow speeds, usually below 20 mph
- Usually in reverse
- Cold brakes
- Temperature and humidity conditions may vary



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Please review the audio/video example below: <https://audi-external.kzoplatform.com:443/swf/player/359> (Figure 1).



Figure 1. QR Code for supporting video.



Note:

Frequencies can be identified with our Audi Frequency Analysis App, review TSB 2051095: *46 Audi frequency analysis* for further information.

Technical Background

Not applicable.

Production Solution

Not applicable.

Service

Replace front brake pads according to the instruction in Elsa at Repair Manual, *Chassis >> Brake System >> 46 Mechanical Components >> Front Brakes >> Brake Pads, Removing and Installing Steel Brakes.*

1. Identify the caliper casting lip of the installed caliper in the vehicle. There are two possibilities for the lip; large and small (Figure 1).



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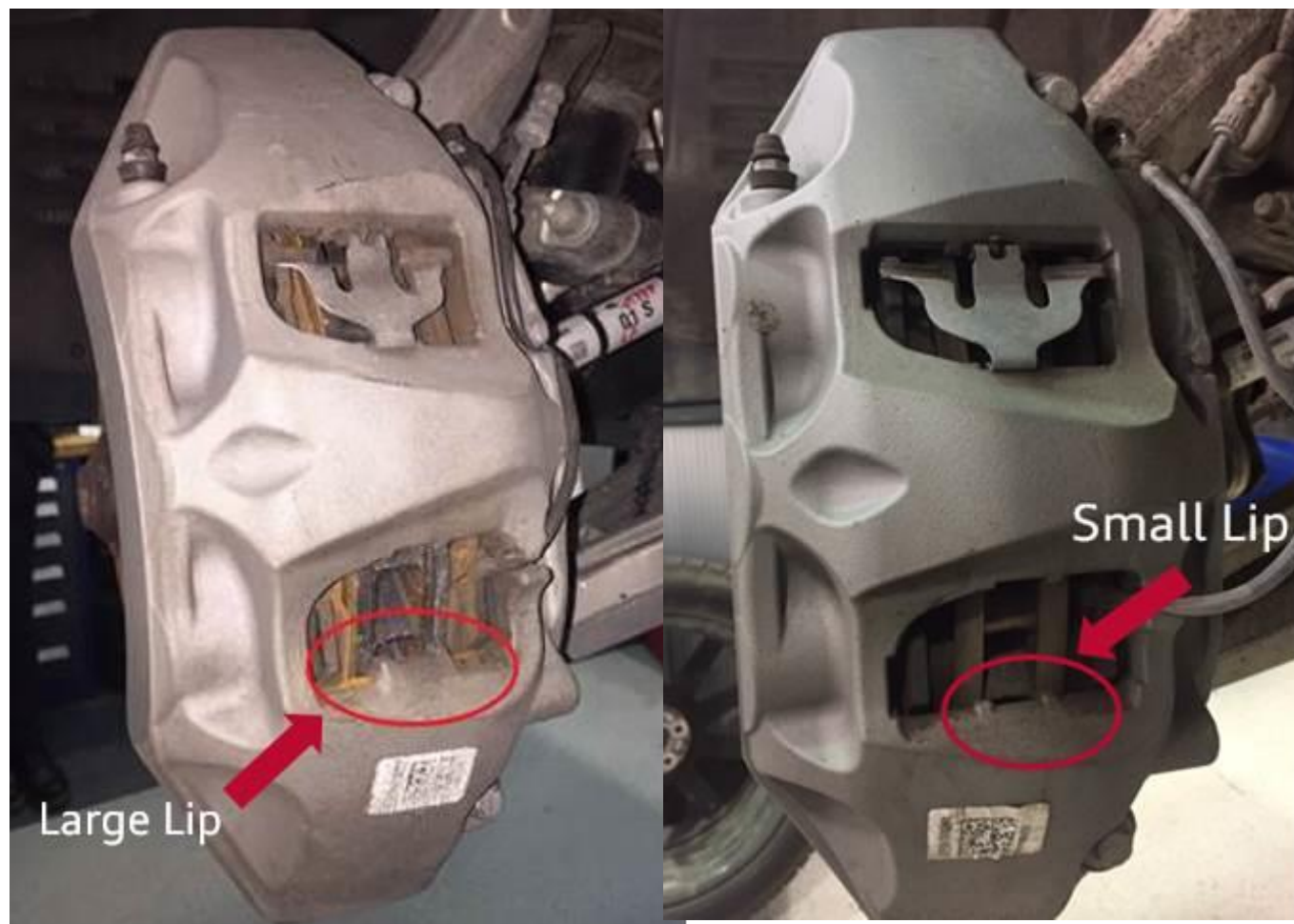


Figure 1. Caliper casting lip configurations.

2. Install one new lower spring in each caliper. The final configuration must have two springs per caliper (Figure 2). See available spring designs (Figure 3).
3. According to caliper casting, a specific type of spring must be assembled, as follows:

LARGE CASTING LIP >>> INSTALL SPRING 4M0 615 269 C
SMALL CASTING LIP >>> INSTALL SPRING 4M0 615 269 or 4M0 615 269 B



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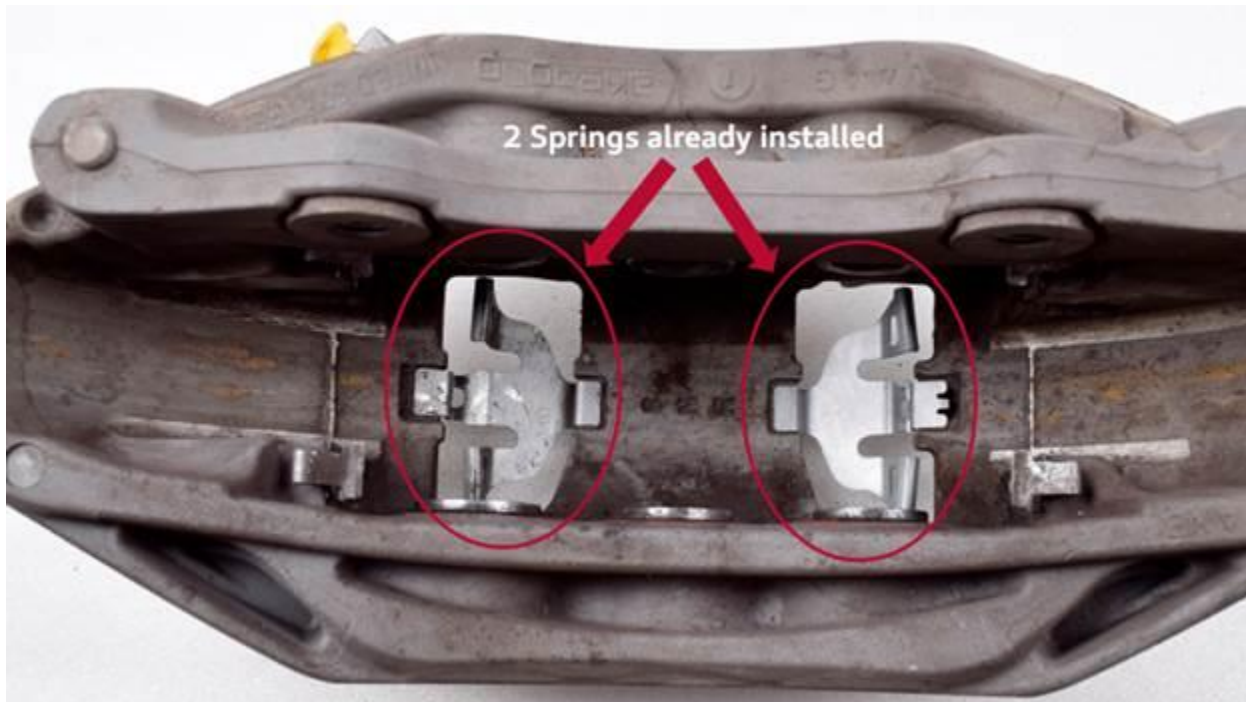


Figure 2. Spring configuration, after installation.



Figure 3. Spring designs.

4. It is mandatory to clean the brake caliper contact surfaces for the brake pad intermediate plate (also known as retaining plate) and thinly coat with Lithium Grease. (Figure 4).



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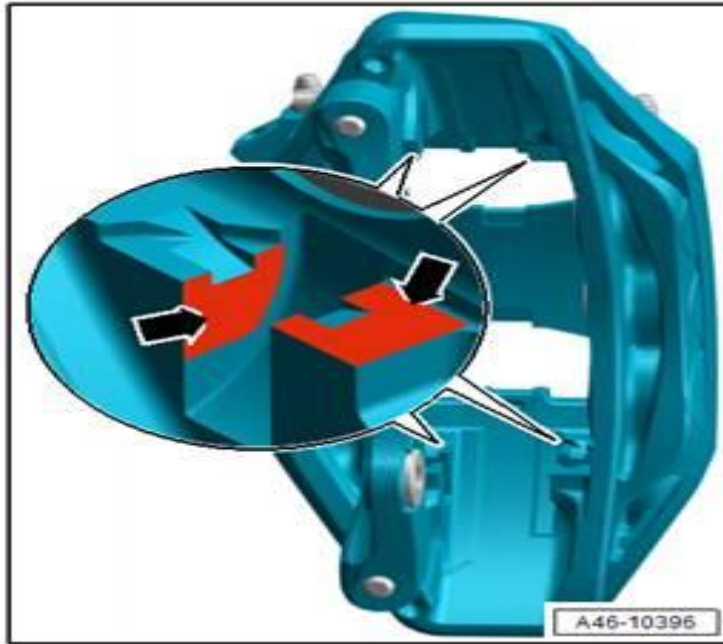
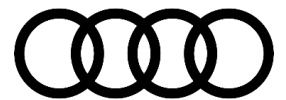


Figure 4. Clean contact surfaces and then coat with lithium grease.

5. It is mandatory to pay attention to the labeling on the brake pad (Figure 5). Once installed the arrow (1) position on the backing plate must point upward (the pads should be installed with the arrows following the forward rotation of the wheel). Labeling (2) indicate correct assembly position (left outer/inner, right outer/inner).



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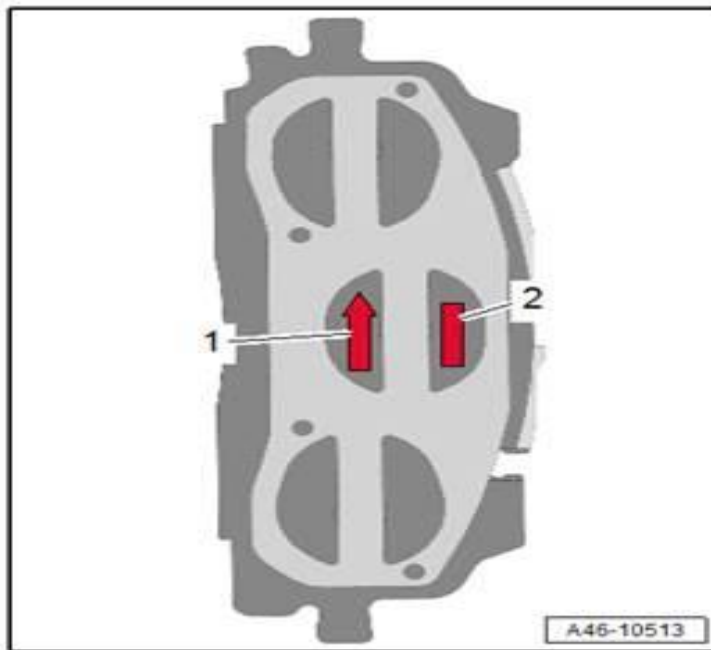


Figure 5. Correct installation positioning for the brake pad.

6. It is mandatory to replace all 4 brake pad intermediate plates per caliper – included in the brake pad box (Figure 6).



Figure 6. Replace all 4 intermediate plates.



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7. Brake Embedding:

- a. Perform 10 stops from approximately 35 mph to 10 mph with medium brake application.
- b. Drive for approximately 2 minutes 40 mph without braking to allow the brakes to cool down.
- c. Repeat steps A and B if necessary.



Note:

- A. This bulletin does not apply if there is an improper operation or misuse of the vehicle.
- B. Do not perform ABS stops as a way of embedding the brakes. Brake pads and discs may be permanently damaged if brakes are overheated prior to being properly embedded.
- C. Do not replace current springs already installed in the caliper. It is mandatory to install two springs per vehicle.



Tip: Rust/Corrosion build-up, grooves, or glazing on the braking surface of the brake disc may cause noise and must be considered when replacing brake pads. If this TSB has not been completed, complete the repairs as outlined in this TSB. If this TSB has already been completed and the noise has returned, please review TSB 2034181.

Warranty



Claim Type:	<ul style="list-style-type: none"> • 110 up to 48 Months/50,000 Mile. • If the vehicle is outside any warranty, this Technical Service Bulletin is informational only. 		
Service Number:	4636		
Damage Code:	0010		
Labor Operations:	Wheels remove + reinstall (front)	4405 2000	See SRT
	Brake pads front remove + reinstall	4636 2050	See SRT
Diagnostic Time:	GFF	No allowance	0 TU
	Road test prior to the service procedure	0121 0002	10 TU
	Road test after the service procedure	0121 0004	10 TU
Claim Comment:	As per TSB #2050735/5		



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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
4M0698151BD	Set of front brake pads	01
4M0615269 or 4M0615269B or 4M0615269C	Spring (According to caliper casting design).  Note: Packaging may vary with 1 or 2 parts, according to the supplier.	02 springs per vehicle/repair.
G052150A2	Lithium grease	0.1
See ETKA	Sender wire.  Note : Pad wear indicator, replace only if defective. Vehicles with very low mileage probably will not require replacement.	02
See ETKA	Fasteners, Bolts, Nuts, and Screws as needed per the Repair Manual	See ETKA/ELSA

Additional Information

The following Technical Service Bulletin(s) will be necessary to complete this procedure:

- TSB 2051095, *46 Audi frequency analysis*.

All parts and service references provided in this TSB (2050735) are subject to change and/or removal. Always check with your Parts Department and/or ETKA for the latest information and parts bulletins.

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