

46 Q7 MY18 Squeal from front brakes

46 18 96 2050737/5 September 4, 2018. Supersedes Technical Service Bulletin Group 46 number 18-93 dated June 8, 2018 for reasons listed below.

Model(s) Y	Year	VIN Range	Vehicle-Specific Equipment	
Q7	2018	000001 - 039706	With disc brakes in front	

Condition

REVISION HISTORY				
Revision	Date	Purpose		
5	-	Revised Warranty (Updated TU) Revised Required Parts and Tools (Removed remark)		
4	06/08/2018	Revised Service (Updated procedure) Revised Required Parts and Tools (Added part number)		
3	05/07/2018	Revised header data (Updated VIN break)		

Customer reports hearing a squeal 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



Please review the audio/video example below: https://audi-

external.kzoplatform.com:443/swf/player/359.



Figure 1. QR Code for Supporting Video.



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).



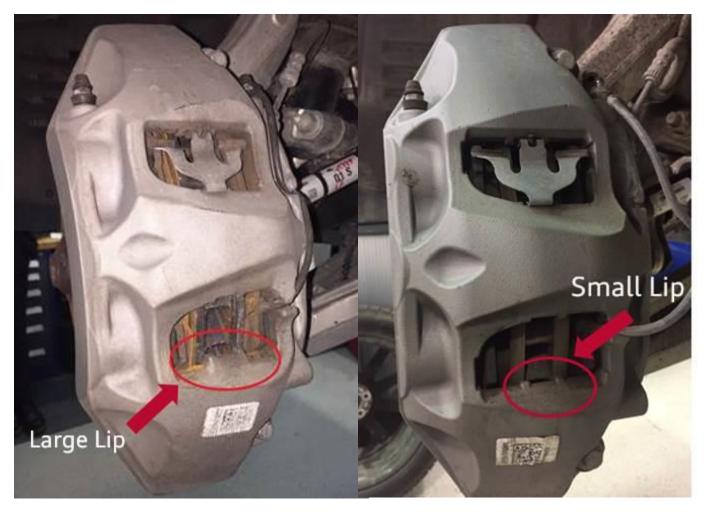


Figure 1. Caliper casting lip configurations.

- 2. Install one new lower spring in each caliper. 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





Figure 2. Spring configuration, after installation.



Figure 3. Spring designs.

4. It is mandatory to clean the contact surfaces (red marked with arrows) and coat with lithium grease (Figure 4). Also, coat the brake pad plate/guide pins and pad contact surfaces with lithium grease.



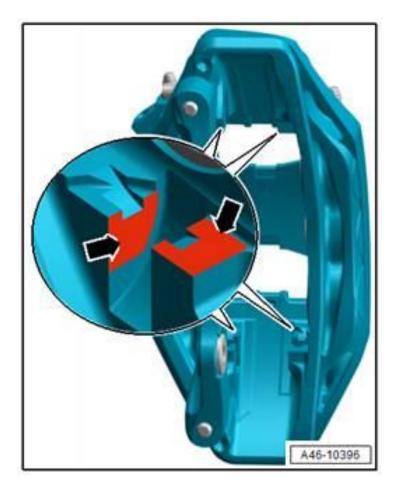


Figure 4. Clean contact surfaces and then coat with lithium grease.

5. It is mandatory to pay attention to the labeling on the brake pad (Figure 5). In installed position the arrow (1) 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).



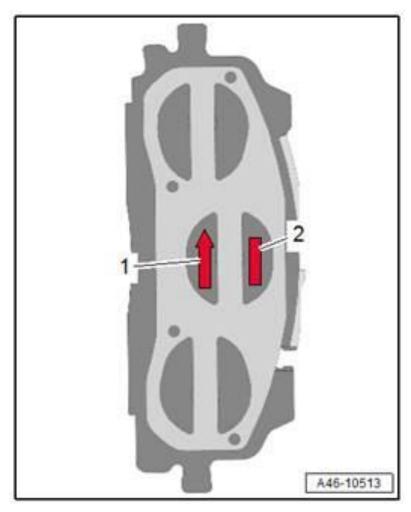


Figure 5. Correct installation positioning for the brake pad.

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





Figure 6. Replace all 4 intermediate plates.

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.



- A. This bulletin does not apply if there is 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 be proper 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 (Also review TSB 2034181: *Brake noise analysis and handling*).



Warranty

Claim Type:	 110 up to 24 Months/24,000 Miles. If 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	30 TU		
	Brake pads front remove + reinstall	4636 2050	60 TU		
Diagnostic Time:	GFF	No allowance	0 TU		
	Road test prior to service procedure	0121 0002	10 TU		
	Road test after service procedure	0121 0004	10 TU		
Claim Comment:	As per TSB #2050737/5				

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 (pad wear indicator, replace only if damaged).	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.
- TSB 2034181, Brake noise analysis and handling.

All parts and service references provided in this TSB (2050737) 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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