



Technical Service Bulletin

46 Clicking noise from front ceramic brakes and/or metallic rattle at all speeds over bumps - R8

46 19 04 2047140/5 January 15, 2019. Supersedes Technical Service Bulletin Group 46 number 18-94 dated June 21, 2018 for reasons listed below.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
R8	2017	All	Ceramic brakes
R8	2018	000001 - 900030	Ceramic brakes

Condition

REVISION HISTORY		
Revision	Date	Purpose
5	-	Revised title Revised <i>Condition</i> (Updated description) Revised <i>Warranty</i> (Updated Labor Operations)
4	06/21/2018	Revised <i>Service</i> (Updated procedure)
3	04/17/2017	Revised <i>Warranty</i> (Updated Labor Operation)

A clicking noise (and/or metallic rattle) is heard from front brakes when vehicle is being driven at all speeds in either direction and/or over bumps. For an example of the sound, see the video located at: <https://audi-external.kzoplatform.com:443/swf/player/334> (Figure 1).



Figure 1. QR code for clicking noise.



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Technical Background

Only Ceramic Brakes are affected (PR code 1LW).

The pads may be moving back and forth inside the caliper, which causes the noise.

Production Solution

New brake pad in use.

Service

1. Install new brake pads on both sides according to the instructions in the Elsa Repair Manual at *Chassis >> Brake System >> 46 Mechanical Components >> Front Brakes >> Brake Pads Removing and Installing Ceramic Brakes*.

- The brake pistons must be clean. Brake cleaner can be used to clean the brake pistons. Ensure that the contact surfaces are free of dust and grease and they are dry.
- Only remove the protective paper from the adhesive foil on the brake pad immediately before installation (Figure 2), and do not touch the adhesive surface. (Figure 3).



Figure 2. Pull of adhesive foil.



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Figure 3. Do not touch the exposed adhesive surface.



Note:

After installing the pads, keep full brake pressure for about 5 seconds to ensure that the pads are properly bonded to the pistons.

2. Brake Embedding:

- A. Perform 10 stops from approximately 65 mph to 30 mph with medium brake application.
- B. Drive approximately 2 minutes at 40mph without braking to allow the brakes to cool down.
- C. Repeat steps A and B if necessary.

Warranty

Claim Type:	<ul style="list-style-type: none">• 110 up to 48 Months/50,000 Miles• If the vehicle is outside warranty, this TSB is informational only.		
Service Number:	4636		
Damage Code:	0010		
Labor Operations:	Brake pads front, remove and install	4636 2050	See SRT
	2 Wheels remove and install	4405 2000	See SRT
	Front brake calipers cleaned	4739 9999	30 TU



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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 # 2047140/4		

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

Always check with your Parts Department and/or ETKA for the latest information and parts bulletins.		
Part Number	Part Description	Quantity
See ETKA	Fasteners, Bolts, Nuts and Screws as needed per the Repair Manual	See ETKA/ELSA
4S0 698151 M	Set of front brake pads	01
G 052 150 A2	Lithium Grease	0.10
See ETKA	Set of securing parts	01
See ETKA	Contact sensor	02

Additional Information

All parts and service references provided in this TSB (2047140) are subject to change and/or removal.

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