

# Technical Service Bulletin



## 46 S4 and S5 squealing from front brakes (PR-1LJ)

46 14 73 2027636/7 March 12, 2014. Supersedes Technical Service Bulletin Group 46 number 13-41 dated June 11, 2013 for reasons listed below.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
S4	2010 - 2011	All	PR-1LJ
S4	2012	000001 - 007700	PR-1LJ
S5, S5 Cabriolet	2008 - 2010	All	PR-1LJ
S5 Cabriolet	2011	000001 - 022798	PR-1LJ
S5	2011	000001 - 091006	PR-1LJ

## Condition

REVISION HISTORY		
Revision	Date	Purpose
7	-	Revised header data (Updated engine codes) Revised <i>Technical Background</i> (Updated pad wear limit)
6	6/13/2013	Revised <i>Service</i> (Added screenshots and text) Revised <i>Production Solution</i> (Added information) Revised header data (Added production date)
5	3/13/2013	Revised <i>Service</i> (Added screenshots and text)
4	6/5/2012	Revised <i>Service</i> (Added screenshots and text)
3	2/14/2012	Revised header data (Added production date)
2	1/18/2012	Revised header data Revised <i>Condition</i> (Added production date) Revised <i>Service</i> (Added information to Step 1)
1	11/16/2011	Original publication

Brakes on vehicles produced before September 3, 2012 (calendar week 36 of 2012), squeak or squeal when used with light to moderate force.

## Technical Background

If any of the below conditions occur, this TSB does not apply.

- Foreign bodies between brake disc and brake pad, such as small stones, grit, or sand.
- Un-ground or corroded friction materials.
- Brake discs or brake pads are close to their wear limit. (Front brake disc wear limit: 28mm. Front brake pads wear limit with backing plate and dampening sheet: 10 mm.)
- Metallic deposits from disc material in brake pad (Figure 1).



*Figure 1. Metallic deposits.*

- Deposits in brake pad.

## Production Solution

- From June 20, 2011 (calendar week 25/2011), brake discs, brake carriers, and brake pads with noise insulation installed in production.
- From September 3, 2012 (calendar week 36 of 2012), anti-seize lubricant applied to the guide pins during production.

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## Service

Perform repairs based on following:

- A) If the vehicle was built *before* June 20, 2011, with PR-1LJ (29.5MM discs) (Figure 2), and it has not previously received any repairs listed in this TSB, perform steps 1 – 4 below.

POS	PART NUMBER	NAME	REMARK	QTY	MODEL
		disc brake brake caliper caliper carrier brake disc (ventilated) D >> - 20.06.2011	TRW-GIRLING front 345X29,5MM 5/112		S4+PR-1LJ

**Figure 2.** ETKA screen shot for vehicles built up to June 20, 2011 with PR-1LJ and 29.5mm front discs.

- B) If the vehicle was built *before* June 20, 2011, and it received repairs with version 1, 2, 3, or 4 of this TSB (2027636) and now has PR-1ZT (30MM discs) (Figure 3), only perform steps 2 and 4.

POS	PART NUMBER	NAME	REMARK	QTY	MODEL
		disc brake brake caliper caliper carrier brake disc (ventilated)	TRW-GIRLING front 345X30MM 5/112		S4+PR-1ZT

**Figure 3.** ETKA screen shot for vehicles that had steps 1 - 4 of this TSB performed previously.

- C) If the vehicle was built *after* June 20, 2011, but before September 3, 2012, with PR-1LJ (30MM discs) (Figure 4), perform steps 2 and 4.

POS	PART NUMBER	NAME	REMARK	QTY	MODEL
		disc brake brake caliper caliper carrier brake disc (ventilated) D - 20.06.2011>>	TRW-GIRLING front 345X30MM 5/112		S4+PR-1LJ

**Figure 4.** ETKA screen shot for vehicles built after June 20, 2011 with PR-1LJ and 30mm front discs.

1. Install parts kit with part number **8K0698998**. The kit includes the following components:

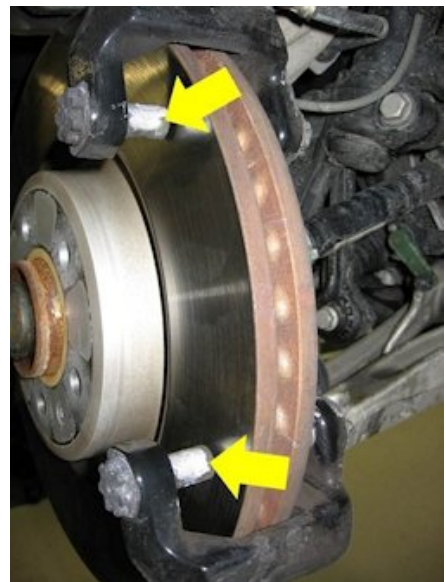
- 1 set of brake pads with wear indicator for disc brakes
- 2 front brake discs
- 2 brake carriers
- 4 hexagonal collar bolts
- 2 hexagonal countersunk screws

Refer to the ElsaWeb Repair Manual for front brake pad instructions.



**Tip:** Brake pads must be securely glued to the calipers.

2. Apply a thin coat of anti-seize (**G 052560A2**) lubricant to the guide pins of the caliper carrier prior to installing the brake pads (Figure 5). Only apply this lubricant to the section of the guide pins that will be contacted by the brake pads.



**Figure 5.** Caliper carrier guide pins with anti-seize (**G 052560A2**) lubricant applied where the pads make contact.

3. Follow all instructions in the attached TSB, *2011732 00 Software Management (SVM), operating instructions*, to update the vehicles front brake PR code data using the SVM action code listed in the table below. Use Audi Flashing >> *Software Version Management (SVM) >> SVM – Direct input: SVM code for vehicle conversion.*

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Models	Old front brake PR code	New front brake PR code	SVM Action Code
S4 / S5 / S5 Cabrio	PR-1LJ (29.5MM)	PR-1ZT (30MM)	03A004



**Tip:** The change is necessary to ensure correct parts are installed during future brake service.

4. Road test the vehicle to seat the breaks and to verify that the noise has been eliminated.

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## Warranty

There must be an original customer complaint of the specified symptom on the repair order for this Technical Service Bulletin to apply. Adding this procedure on is not permitted.

<b>Claim Type:</b>	110		
<b>Service Number:</b>	4617		
<b>Damage Code:</b>	0020		
<b>Labor Operations:</b>	<b>Scenario A (Steps 1 - 4)</b>		
	2 Wheels remove and reinstall	4405 2000	20 TU
	2 Brake pads, front remove and reinstall	4636 2050	50 TU
	2 Front brake disc remove and reinstall	4650 2050	40 TU
	SVM update	0150 0000	Time stated on diagnostic protocol (Max 30 TU)
	Road test prior to service procedure	0121 0002	10 TU
	Road test after service procedure	0121 0004	10 TU
	<b>Scenario B or C (Steps 2 and 4 only)</b>		
	2 Front brake calipers removed and reinstalled	4739 2000	70 TU
	Clean guide pins and apply anti-seize	4739 9999	10 TU
	Road test prior to service procedure	0121 0002	10 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)		
	<b>Claim Comment:</b>	As per TSB #2027636/7	

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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



### Note:

In the event of a parts request, all parts included in the repair should be sent to the WPRC.

Part Number	Part Description	Quantity
G 052560A2	Anti-seize lubricant	0.10
8K0698998	S4/S5 Parts Kit (parts listed below are included in the kit)	1
	<ul style="list-style-type: none"><li>• Set of brake pads with wear indicator (1 set)</li><li>• Front brake discs (x2)</li><li>• Brake carriers (x2)</li><li>• Hex. collar bolts (x4)</li><li>• Hexagonal countersunk screws (x2)</li></ul>	Included in kit

## Additional Information

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

- TSB 2011732: *00 Software Management (SVM), operating instructions*.

All parts and service references provided in this TSB (2027636) are subject to change and/or removal. Always check with your Parts Department and service manuals for the latest information.