



Connection offline

**Technical Service Bulletin**Transaction No.: **2016453/3**

40 Clacking noise from front upper suspension or bushings torn (B6)

Release date: Jul 15, 2010

**Condition****REVISION HISTORY**

Revision	Date	Purpose
3	-	Revised header data (Controlling TSB display in ElsaWeb)
2	10/30/2008	Revised Title to include Repair Group

Clacking or clunking noise coming from front suspension area.

No vehicle stability issues are associated with this concern.

**Technical Background**

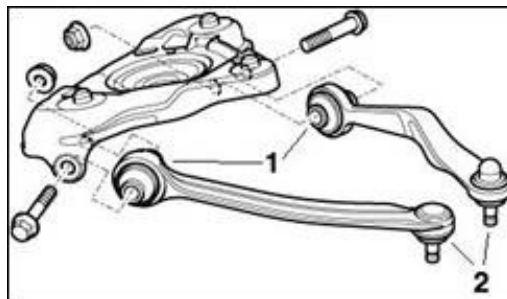
The front upper link(s) bushing is worn or torn.

**Production Solution**

Not applicable.

**Service****Inspect Front Upper Link Suspension**

Visually inspect the front suspension upper link rubber bushing (Figure 1, 1) on all four upper links for damaged bushings. Confirm wear as shown in Figures 2-5:



**Figure 1.** Inner bushing (1).

Wear may entail:

- The rubber is clearly cracked, as in Figure 2.



**Figure 2.** A bushing with cracked rubber.

- The bushing insert is displaced due to a complete rip in the bushing, as shown in Figures 3 and 4.



**Figure 3.** A bushing with a displaced insert.

- At any stage of deterioration the link is always captured and will not

result in reduced vehicle stability.



**Figure 4.** A bushing with a displaced insert, shown installed in the vehicle.

- The bushing insert has a hairline crack in the surface, as shown between the green lines in Figure 5.



**Figure 5.** A bushing with a hairline crack. This is an acceptable amount of wear.

*A hairline crack in the surface (as shown in Figure 5) does not require the bushing to be replaced.*

If the rubber is clearly cracked (as shown in Figure 2) or the bushing insert is displaced (as shown in Figures 3 and 4), replace all four rubber bushings (Figure 1, 1) with part **8D0 407 515 C** on all upper links as per the *Upper Link Bushing Replacement* instructions

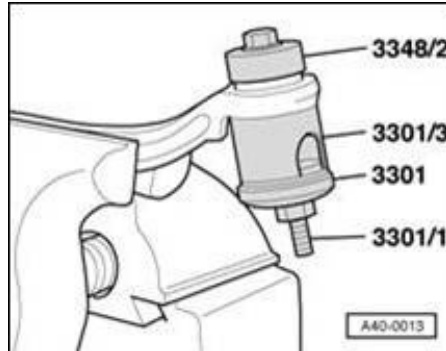
below and in ElsaWeb.

### Upper Link Bushing Replacement

1. Remove front and rear links from the vehicle on both sides as described in the *ElsaWeb Repair Manual*, under *40 Front suspension >> Upper link, removing and installing*. Follow proper predecessor repair procedure.

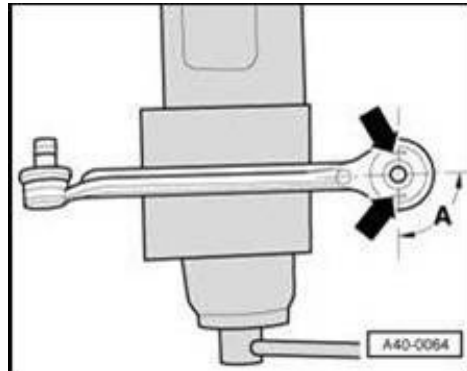
**!** **Note:** Carefully remove the link ball joint from the wheel bearing housing to avoid damaging the linkage stubs so the links may be reused.

2. Once the links are removed from the vehicle, hold the link in a vice with protective jaw covers. Assemble the 3348 and 3301 tools as shown in Figure 6, and tighten nut until the bushing is pressed out.



**Figure 6.** Proper assembly of tools 3348 and 3301 for bushing removal.

3. Place and align the new bushing in the link as shown in Figure 7 with the cutouts (see arrows) placed and aligned in the link according to Angle A. This angle *must* be  $90^{\circ} \pm 1^{\circ}$ .

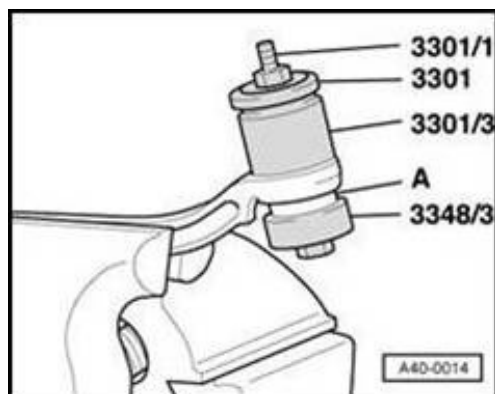


**Figure 7.** Proper alignment of the bushing. Angle A *must* be  $90^{\circ} \pm 1^{\circ}$

**!** **Note:** Improper alignment of the bushing may cause premature wear and failure of this bushing.

4. Press the bushing into place, assemble the 3348 and 3301 tools as shown in Figure

8 and tighten the nut until the bushing is pressed into place.



**Figure 8.** Proper assembly of tools 3348 and 3301 for bushing installation.

- Reinstall the front and rear links on both sides from the vehicle as described in the *ElsaWeb Repair Manual*.

## Warranty

<b>Claim Type:</b>	Use applicable claim type. If vehicle is outside any warranty, this Technical Service Bulletin is informational only.		
<b>Service Number:</b>	4020		
<b>Damage Code:</b>	0010		
<b>Labor Operations:</b>	2 Suspension strut remove + reinstall	4085 2000	130 TU
	2 Wishbone mountings replace	4020 5653	50 TU
	2 Upper guide links remove + reinstall	4013 2050	30 TU
	2 Upper wishbones remove + reinstall	4015 2050	30 TU
	2 Guide link mountings replace	4012 5652	50 TU
<b>Diagnostic Time:</b>	GFF	No allowance	0 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 #2016453/3		

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
8D0 407 515 C	Bonded Rubber Mounting (bushing)	4

Tool Number	Tool Description
3301	Assembly Tool
3348	Assembly Tool

### 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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