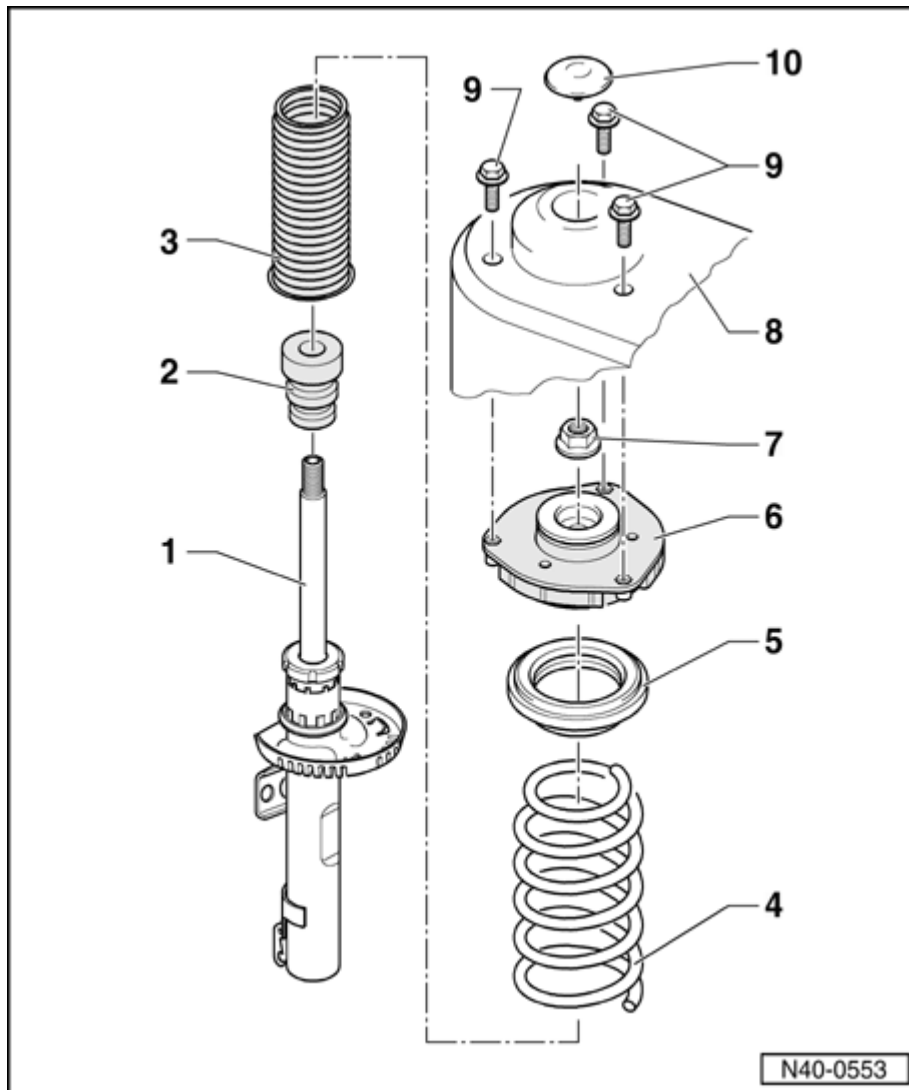


Suspension, assembly overview



■ Strut

- Can be replaced individually
- Application ⇒ *Electronic Parts Catalog "ETKA"*

■ Buffer stop

■ Protective sleeve

■ Coil spring

- Removing and installing ⇒ [40-6, Coil spring, removing](#)
- Observe color coding

- Application ⇒ *Electronic Parts Catalog "ETKA"*

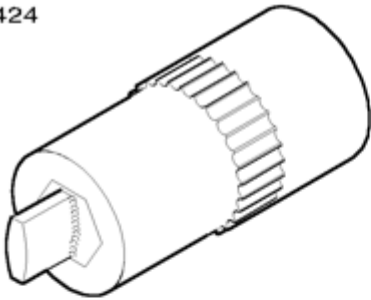

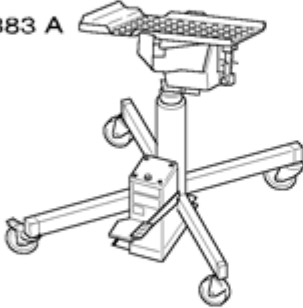
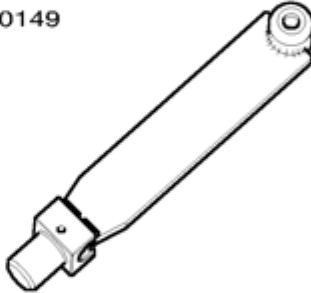
Spring allocation via PR no.

These numbers can be found on vehicle data plate.

- Surface of the winding must not be damaged
- **Axial groove ball bearing**
- **Suspension strut bearing**
 - Observe installed location ⇒ [40-6, Installation position of spring retainer](#)
- **Hex nut**
 - Torque specification ⇒ [Topic 40-3](#)
 - Self-locking
 - Always replace after removal
- **Suspension strut dome**
- **Hex bolt**
 - Torque specifications ⇒ [Topic 40-3](#)
 - Always replace after removal
- **Protective cap**

Suspension strut, removing and installing

Removing

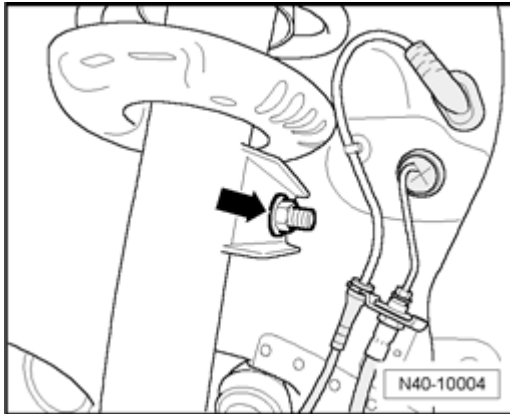
<p>3424</p> 	<p>V.A.G 1332</p> 
<p>V.A.G 1383 A</p> 	<p>T10149</p> 
	<p>W40-10003</p>

Special tools, testers and auxiliary items required

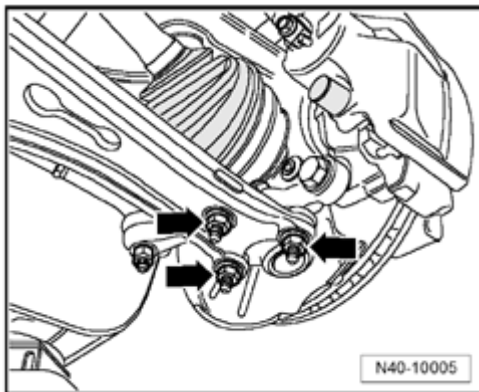
- Spreader 3424
- Torque wrench V.A.G 1332
- Engine/transmission jack V.A.G 1383 A
- Wheel hub support T10149

- Loosen drive axle hex bolt ⇒ [40-7, Drive axle hex bolt connection, loosening and tightening](#) .

- Remove wheel.



- Remove coupling hex nut - **arrow** - from suspension strut.
- Disengage wire for wheel speed sensor from suspension strut.

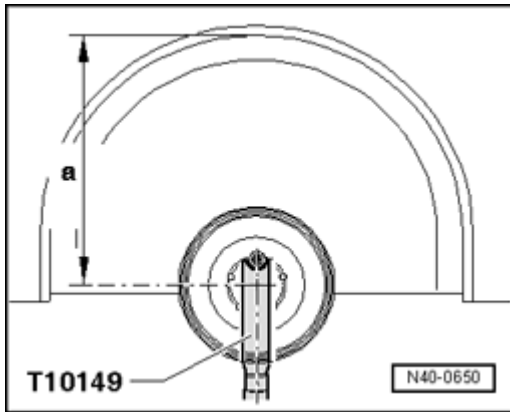


- Remove bolts - **Arrows** - .
- Pull wheel bearing housing with ball joint out of control arm.
- Pull drive axle outer joint out of wheel hub.
- Secure drive axle to body using wire.

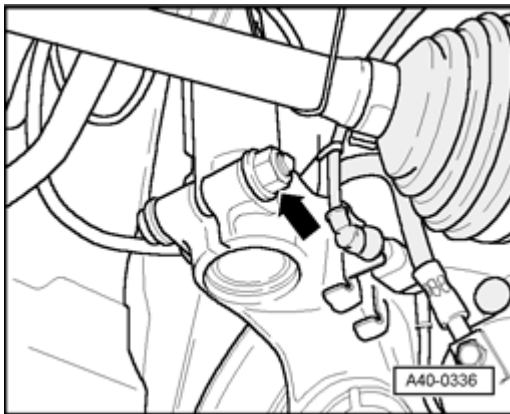
Note:

- *Drive axle must not hang down, otherwise inner joint may be damaged when over bent.*

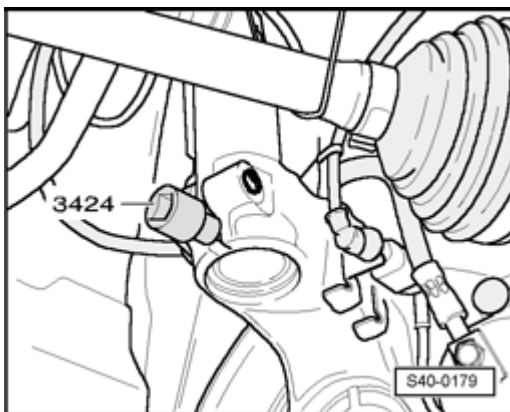
- Bolt ball joint onto control arm again.



- Secure engine/transmission jack V.A.G 1383 A with Wheel Hub Support T10149 to wheel hub using one wheel bolt.



- Separate wheel bearing housing/suspension strut bolt connection - **arrow** - .



- Insert spreader 3424 into wheel bearing housing slot.
- Turn ratchet around 90 ° and remove from spreader 3424 .
- Press brake disc in direction of suspension strut by hand.

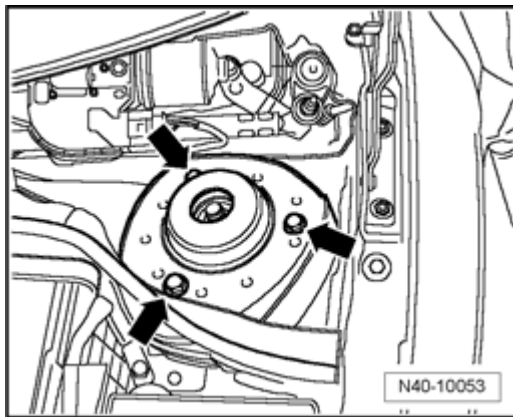
Otherwise strut tube may be canted in hole of wheel

bearing housing.

- Pull wheel bearing housing downward off strut tube and lower using engine/transmission jack V.A.G 1383 A until strut tube hangs free.
- Tie wheel bearing housing onto console/subframe using wire.
- Remove engine/transmission jack V.A.G 1383 A under wheel bearing housing.
- Remove wiper arms

⇒ *Repair Manual, Electrical Equipment, Repair Group 92,*

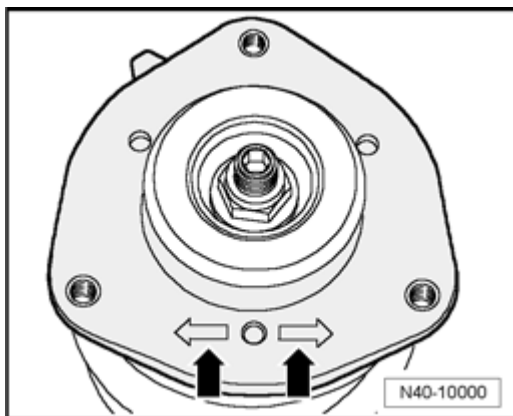
- Remove plenum chamber cover.



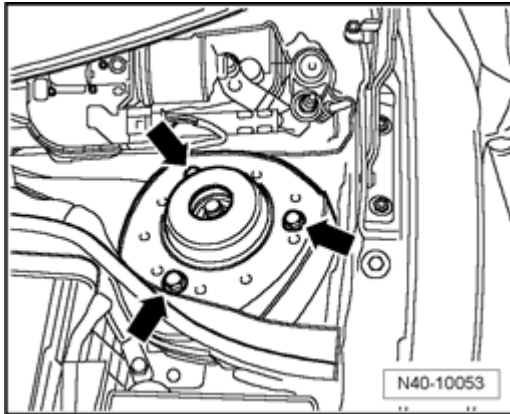
- Remove hex bolts - **arrows** - for upper strut mounting and remove suspension strut.

Installing

- Insert suspension strut, one of the two markings - **arrows** - must point in direction of travel when doing this.



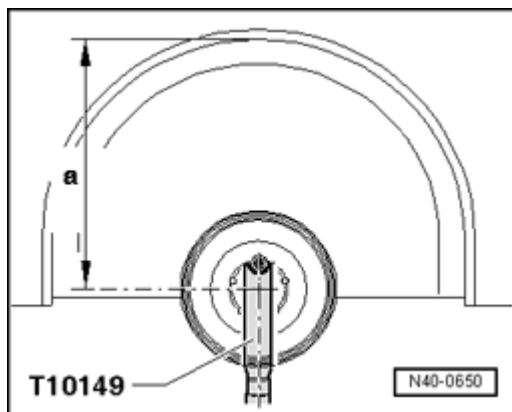
Installation position of spring retainer



Tighten hex bolts - **arrows** - for upper strut mount.

- Install plenum chamber cover.
- Install wiper arms

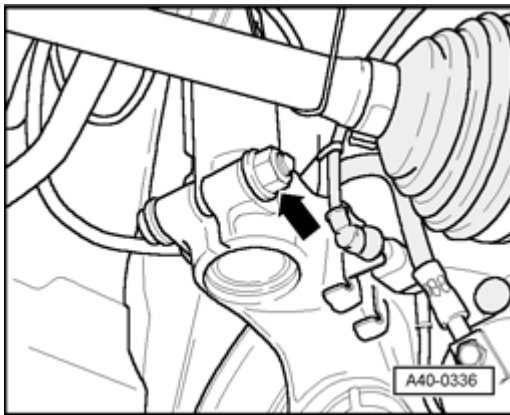
⇒ *Repair Manual, Electrical Equipment, Repair Group 92,*



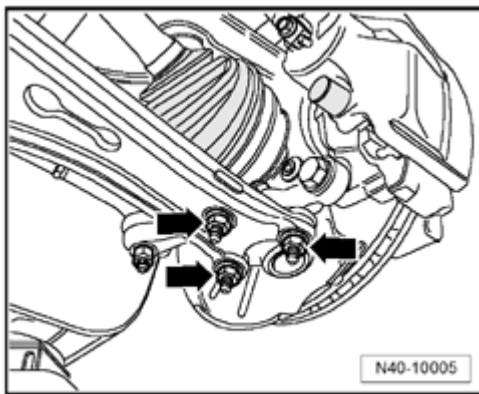
- Secure engine/transmission jack V.A.G 1383 A with wheel hub support T10149 to wheel hub using a wheel bolt.
- Position suspension strut on wheel bearing housing.
- Remove wire on wheel bearing housing.
- Carefully lift wheel bearing housing with engine/transmission jack V.A.G 1383 A enough so that the suspension strut/wheel bearing housing bolt can be inserted.
- To do so, press brake disc by hand in direction of suspension strut while lifting.

Otherwise strut tube may be canted in hole of wheel bearing housing.

- Remove spreader 3424 .



- Tighten wheel bearing housing/suspension strut bolt connection - **arrow** - .



- Remove nuts - **arrows** - .
- Install drive axle in wheel hub.
- Install wheel bearing housing with ball joint in control arm.
- Bolt ball joint to control arm.

Note:


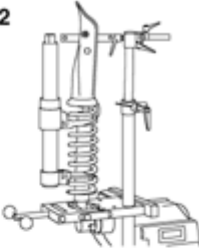

- Check boot for damage or twisting.

Rest of installation is performed in the reverse order of removal.

Torque specifications ⇒ [40-3, Front axle, tightening torques](#)

- Install and fasten wheel, torque specification ⇒ [44-2, Torque specification for wheel bolts](#) .

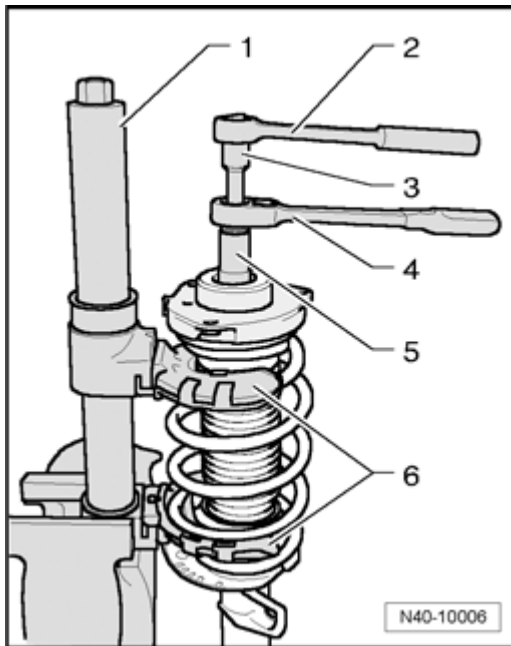
Suspension strut, servicing

<p>V.A.G 1332</p> 	<p>V.A.G 1752</p> 
<p>T 10001</p> 	
	<p>W40-0119</p>

Special tools, testers and auxiliary items required

- Torque wrench V.A.G 1332
- Spring compressor V.A.G 1752/1
- Shock absorber set T10001
- Spring holder V.A.G 1752/5
- Ratchet (commercially available)

Coil spring, removing

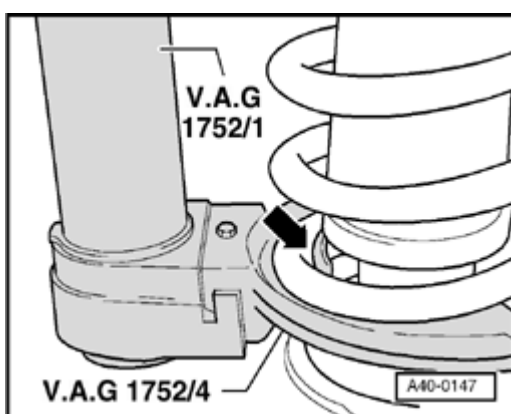


- Pretension coil spring using spring compressor V.A.G 1752/1 until upper axial groove ball bearing is free.

- Spring compressor V.A.G 1752/1
- Torque wrench V.A.G 1332
- Bit XZN 18 T10001/8
- Ratchet T10001/11
- Bit XZN 18 T10001/5
- Spring holder V.A.G 1752/4

Caution!

First, pretension spring until upper spring plate is no longer burdened!



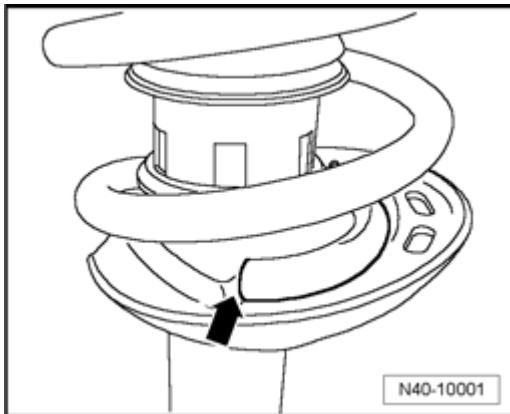
- Be sure coil spring is properly seated in spring holders V.A.G 1752/4 - **arrow** - .

- Remove hex nut from piston rod.

- Remove components of suspension strut and coil spring using spring compressor V.A.G 1752/1 .

Coil spring, installing

- Place coil spring with spring compressor V.A.G 1752/1 on lower spring plate.



End of spring coil must rest against stop - **arrow** - .

- Tighten new hex nut on piston rod.
- Release spring compressor V.A.G 1752/1 and remove from coil spring.
- Install suspension strut ⇒ [40-6, Installing](#) .

Torque specifications ⇒ [40-3, Front axle, tightening torques](#)