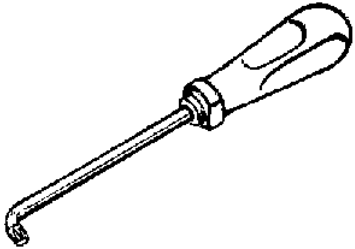
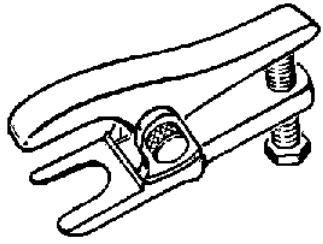


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WM 408519 Removing and installing front spring strut

Tools

Designation	Type	Number	Description	
screwdriver	Special tool	9546		40, 42  9546 000 721 954 60
press-out tool	Special tool	9560		40, 42  9560 000 721 956 00

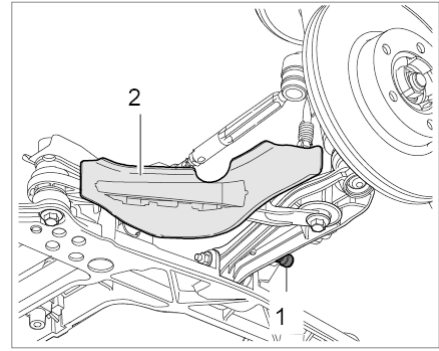
Removing and installing spring strut - preliminary work

1. On vehicles with all-wheel drive (911 Carrera 4/911 Turbo), detach the drive shaft fastening at the side of the wheel before raising the vehicle. Actuate the brake while doing this.
2. Raise the vehicle → 400000 *Lifting the vehicle* and remove front wheel → 440519 *Removing and installing wheel*.

Removing front spring strut

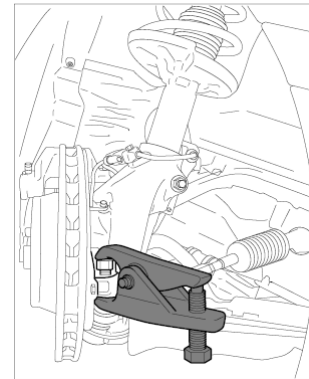
1. Loosen stabiliser mount at stabiliser (counter with Torx T30).
2. Unscrew linkage for range adjustment **-1-** (headlight height adjustment) on the trailing arm. Left side only.

On vehicles with all-wheel drive (911 Carrera 4/911 Turbo), remove the spoiler at the diagonal arm **-2-** (the air guide for the brake cooling).



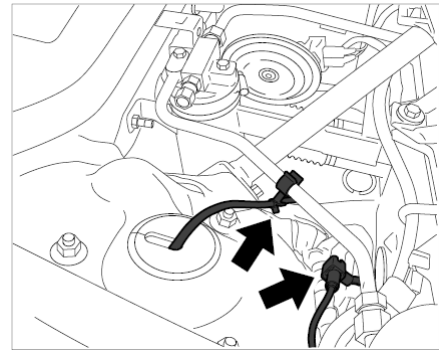
Linkage for range adjustment

3. Loosen tie rod and control arm at wheel carriers and press off the ball joints with special tool **press-out tool 9560**. When loosening the lock nuts, counter at the ball-joint pins with special tool **screwdriver 9546** (Torx screwdriver).



Loosening tie rod

4. Disconnect plug connection at wheel carrier and pull out plugs. Undo plug connection at wheel carrier and unclip electric wires at the spring strut.
5. Loosen holder for brake line/brake hose at wheel carrier. Loosen brake calliper from wheel carrier and attach in wheel arch.
6. Open luggage compartment and remove the relevant design cover over the spring strut.
7. Loosen cover over piston rod (at spring strut). For PASM spring struts, carefully disconnect connecting cable at the connector and unclip it from the bracket **-arrows-** .



PASM bracket and connector

8. Mark the installation position of the spring-strut mount (position of the three collar nuts). Loosen lock nuts (3 ea. M8) at spring-strut mount.
9. For all-wheel drive vehicles, attach protection to the drive shaft (drive shaft remains mounted on the front-axle final drive).
10. Pull out spring strut with wheel carrier.
11. Loosen clamped connection between spring strut/wheel carrier (ball joint of stabiliser mount). Counter with open-ended wrench. Pull spring strut out of wheel carrier.

Installing front spring strut



Information

- *If assembly work was performed or parts replaced that affect the vehicle height, a complete wheel alignment is necessary.*
1. Install in reverse order. Before installing, do a visual check on the parts. Replace brake calliper fastening screws.

The sensor for the range adjustment does not need to be calibrated.
 2. Do not grease screwed connections in Dacromet finish - aluminium colour. Observe correct tightening torques → *4001TW Tightening torques for front axle*.
 3. Place the spring-strut/wheel-carrier assembly into the vehicle. Note installation position of the spring-strut mount. The arrow markings must point to the outer side of the vehicle. The shock-absorber piston rod is thereby shifted outwards. Use new lock nuts. Before tightening the lock nuts, align spring-strut mount in accordance with the applied marking (position of the three collar nuts).

Removing and installing spring strut - subsequent work

1. Fit front wheel → *440519 Removing and installing wheel*.
2. On vehicles with all-wheel drive (911 Carrera 4/911 Turbo), tighten the drive shaft fastening at the side of the wheel to 460 Nm (340 ftlb.). Actuate the brake while doing this.

3. Check wheel alignment values on front axle and adjust if necessary → *449503 Performing front and rear suspension alignment.*
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997110, 997111, 997120, 997121, 997310, 997311, 997320, 997321, 997410, 997411, 997420, 997421, 997430, 997431, 997510, 997511, 997520, 997521, 997610, 997611, 997620, 997621, 997630, 997631

Model year as of 2005

C00, C02, C05, C07, C08, C09, C10, C11, C12, C13, C14, C15, C16, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C32, C33, C34, C35, C36, C37, C38, C39, C45, C46, C98, C99