

Spring and shock absorber rear, replacing

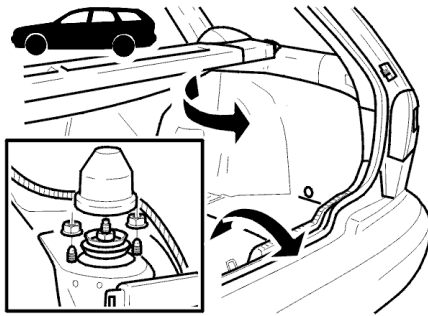
Special tools: [951 2564](#) , [951 2834](#) , [951 2911](#) , [951 2912](#) , [951 2915](#) , [999 5576](#)

Note! As the illustrations in this service information are used for different model years and / or models, some variation may occur. However, the essential information in the illustrations is always correct.

Removing the shock absorber

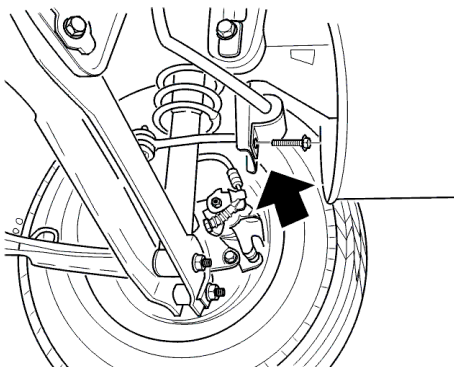
Remove:

- the side panel. See [Removing and installing side panels in the cargo compartment, S40](#) (S40) or [Replacing side panels in the cargo compartment V40](#) (V40)
- the insulation
- the protective cover
- the two nuts.



Removing the mounting for the anti-roll bar

Remove the rear mountings for the anti-roll bar on the left and right-hand sides.

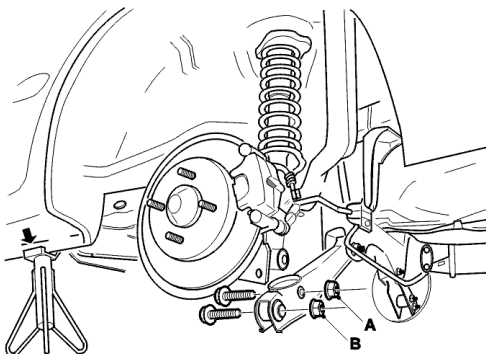


Removing the shock absorber

Raise the car so that the wheels are unimpeded.

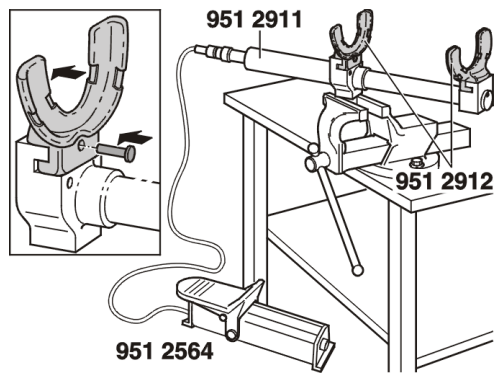
Remove:

- the wheel
- the mounting nut (A) for the shock absorber and the nut (B) for the trailing arm
- the screw for the trailing arm. Support the lower control arm if necessary
- the screw for the shock absorber. Remove the shock absorber.



Assembling the special tool

Secure tool [951 2911](#) in a vice. Install both the spring holders [951 2912](#) . Remove the catch. Raise the spring holders. Reinstall the catch. If necessary, remove the

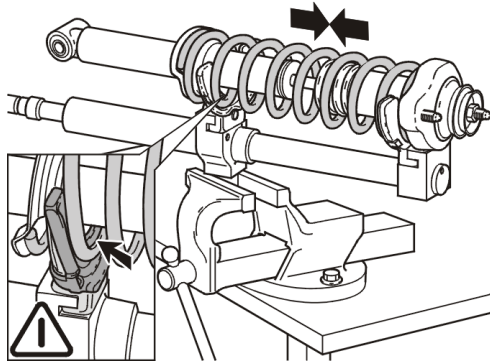


other holders first.

Connect tool [951 2564](#) or [999 5576](#) to connecting hose [951 2915](#).

Compressing the spring

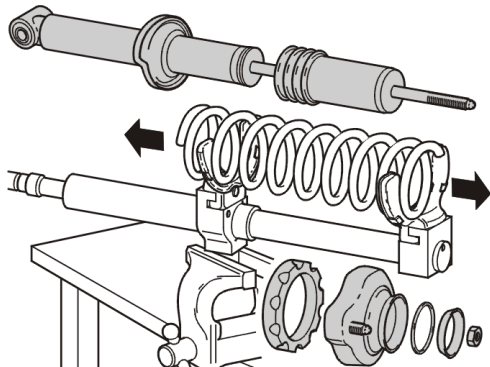
- Install the hooks on the tool over the 7 spring spirals (6 spirals for Nivomat)
- Compress the spring by pumping the tool, always ensuring that the spring is correctly positioned in the catches
- Compress the spring until it is released.



Disassembling the shock absorber and spring

Remove:

- the nut for the shock absorber
- the ring
- the upper spring cap
- the rubber
- the spring
- the shock absorber
- the rubber stop
- the dust boot.



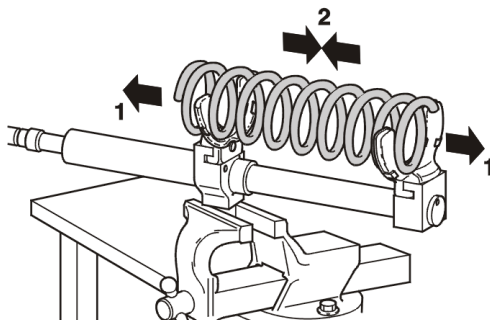
Hint: Note the position of the components. This will make installation easier.

Check all components for wear and damage.

Installing the spring

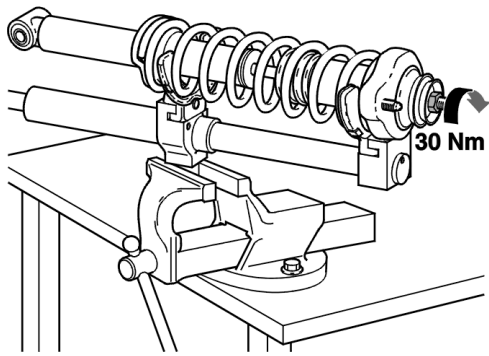
- Remove the spring
- Remove the spring. Note the location
- Install the hooks on the tool over the 7 spirals on the new spring (6 spirals for Nivomat)
- Tension the spring so that the shock absorber mounting can be installed again.

Note! The colour code on the spring must be downwards towards the spring strut.



Assembling the shock absorber and spring

Pull the shock absorber piston out as far as



possible.

Install:

- the rubber stop and dust boot
- the shock absorber through the spring
- the upper spring cover. Ensure that it is parallel (maximum 3° deviation) to the shock absorber mounting.

Check that the ends of the spring are completely inside the spring caps.

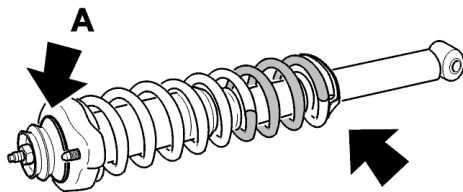
Install the ring and a new nut. Tighten to **30 Nm** (Nivomat shock absorbers: **25 Nm**).

Checking the shock absorber

Slowly let the spring expand. Check that all components are then in the correct position.

Remove the shock absorber. Check that the rubber ring (A) is in position on the upper spring cover.

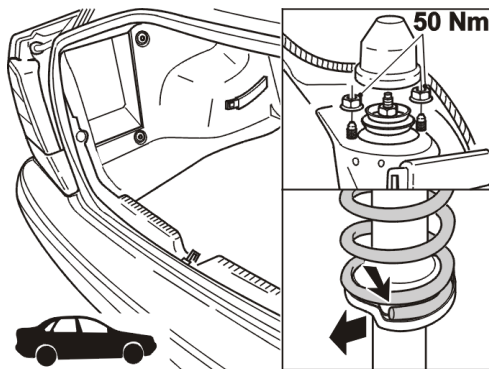
Caution! Incorrect installation of the rubber ring (A) may result in leakage.



Installing the upper mounting for the shock absorber

Install:

- the shock absorber in the car. Ensure that the end of the **lower spiral is pointing backwards**
- the upper shock absorber nuts. Use new nuts. Tighten to **50 Nm**
- the protective cap
- the insulation
- the side panel. See [Removing and installing side panels in the cargo compartment, S40 \(S40\)](#) or [Replacing side panels in the cargo compartment V40 \(V40\)](#).



Installing the shock absorber

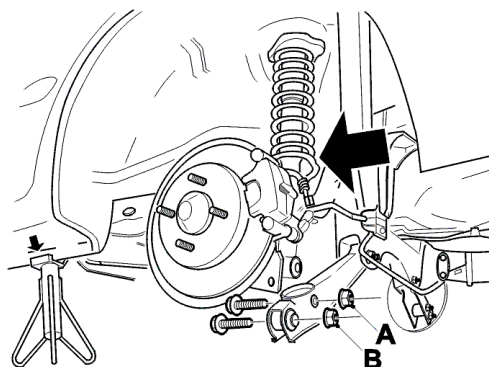
Note! Check that the end of the lowest spiral is pointing backwards.

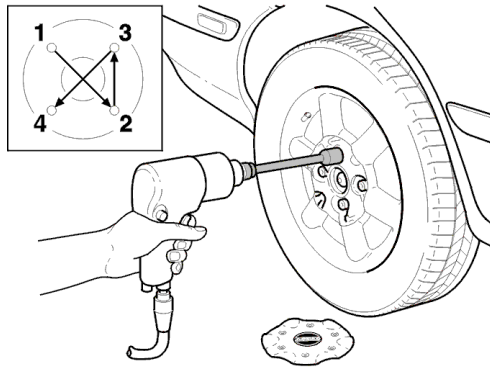
Install the screw in the lower control arm.

Press the entire mounting downwards.

Install the screw in the shock absorber.

Tighten the nuts (A) and (B). Use new nuts.





Installing wheels

Check that the brake disc and wheel rim mating surfaces are clean. Lubricate the hub centre guide using installation paste (P/N 1161397). Install the wheel. Tighten the nuts lightly.

Then tighten crosswise. Tighten to **110 Nm**.

If an impact spanner is used, torque socket **951 2834** must be used.

Post tighten the nuts by hand.

Caution! The correct torques and crosswise tightening are essential to avoid stresses in the brake disc.

Install the hub cap.

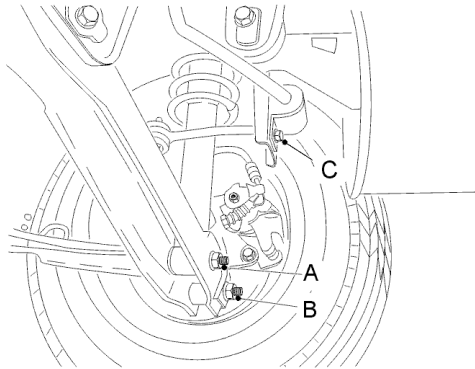
Tightening the lower control arm

Remove the support and bounce the car a few times.

Secure the anti-roll bar.

Tighten:

- the screw C. Tighten to **25 Nm**
- the screw B on the trailing arm. Tighten to **90 Nm**
- the screw A on the shock absorber. Tighten to **90 Nm**.

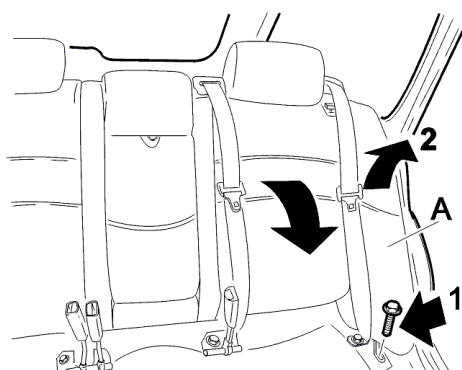


Replacing side panels in the cargo compartment V40

Removing the left rear panel

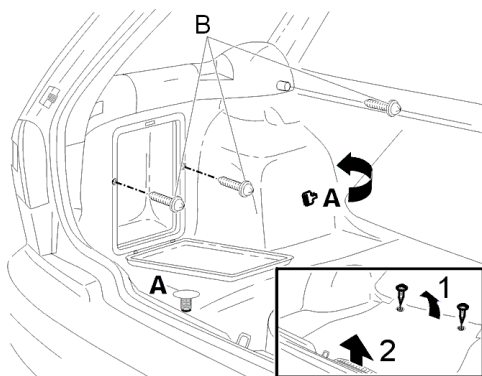
Rear seat

- Tilt the rear seat forward. Fold down the backrest on left-hand side.
- Remove the fixed section (A) of the backrest on the left-hand side.



Removing the left rear panel

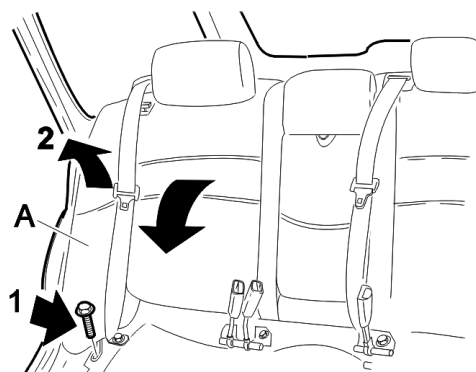
- Remove the parcel shelf.
- Remove the 2 screws. Remove the cargo compartment carpet and rear panel.
- Remove clips A and screw B.
- If applicable: Remove the cargo net mountings.
- Remove the cargo compartment panel from the underneath with a twisting movement.



Removing the right rear panel

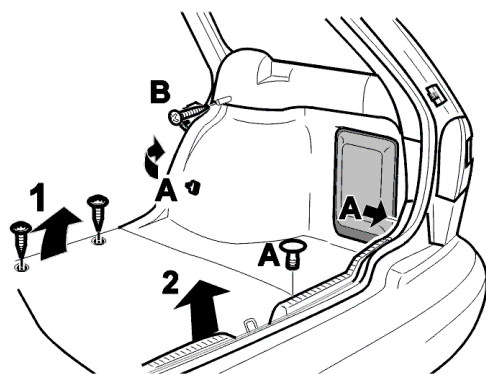
Rear seat

- Tilt the rear seat forward. Fold down the backrest on right-hand side.
- Remove the fixed section (A) of the backrest on the right-hand side.



Removing the right rear panel

- Remove the parcel shelf.
- Remove the 2 screws. Remove the cargo compartment carpet and rear panel.
- Press the clips together and pull away the cargo net from the reverse of the cargo compartment panel.
- Remove clips A and screw B.
- If applicable: Remove the cargo net



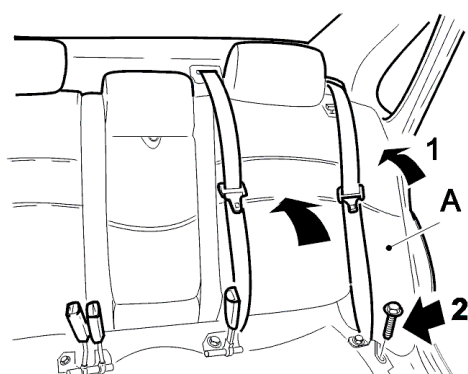
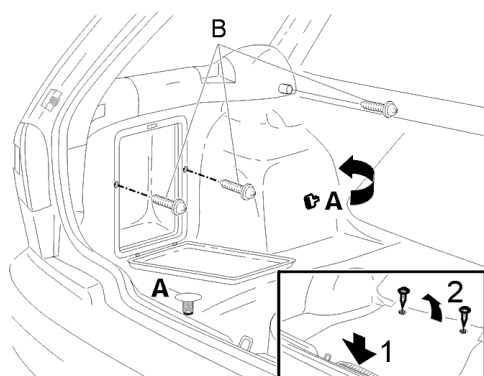
mountings.

- Remove the cargo compartment panel from the underneath with a twisting movement.

Installing left rear panel

Installing left rear panel

- Install the cargo compartment panel with a twisting movement.
- Install clips A and screw B.
- If applicable: Install the cargo net mountings.
- Reinstall the rear panel and cargo compartment carpet.



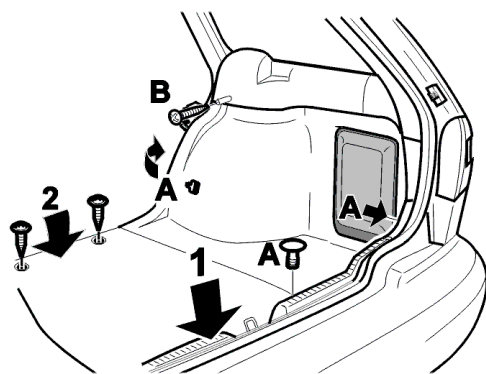
Rear seat

- Install the fixed section (A) of the backrest on the left-hand side.
- Fold up the backrest. Tilt the rear seat back.
- Install the parcel shelf.

Installing right rear panel

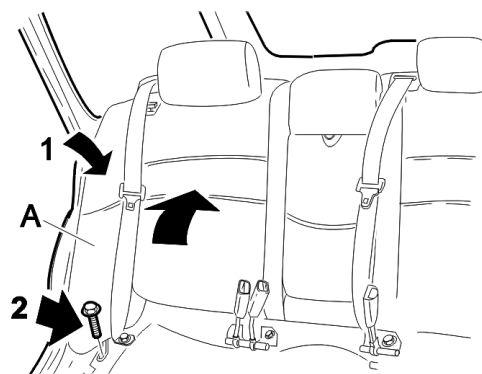
Installing right rear panel

- Install the cargo compartment panel with a twisting movement.
- Install clips A and screw B.
- Press the cargo net into position on the reverse of the cargo compartment.
- If applicable: Install the cargo net mountings.
- Reinstall the rear panel and cargo compartment carpet.



Rear seat

- Install the fixed section (A) of the backrest



on the right hand side.

- Fold up the backrest. Tilt the rear seat back.
- Install the parcel shelf.