

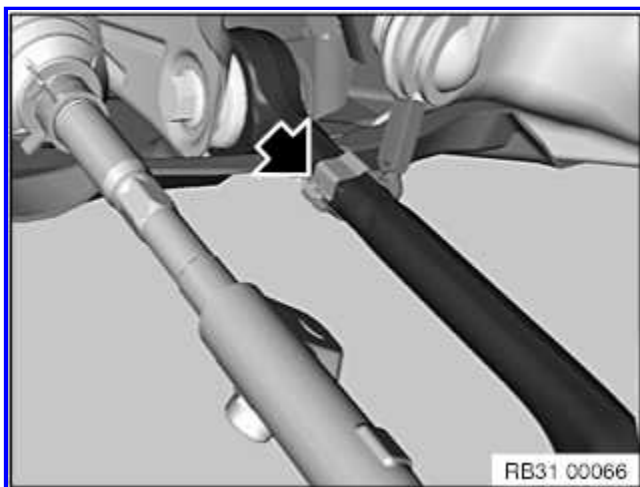
31 31 000**Removing and installing complete left or right spring strut shock absorber***Installation note:*

1. All screws, nuts, bolts and hose clamps removed during the repair must be replaced.
2. Retaining elements on chassis and suspension and steering parts must be replaced.

**Necessary preliminary tasks:**

- Remove [front wheel](#).
- [Remove](#) front brake disc.
- Remove [anti-roll bar link from spring strut](#).
- Disconnect plug connection for pulse sensor and expose cable up to holder on spring strut.
- Disconnect plug connection for brake pad wear sensor and expose cable up to brake caliper.

cardiagn.com

Only on ride-height sensor at left:

Release link at wishbone.

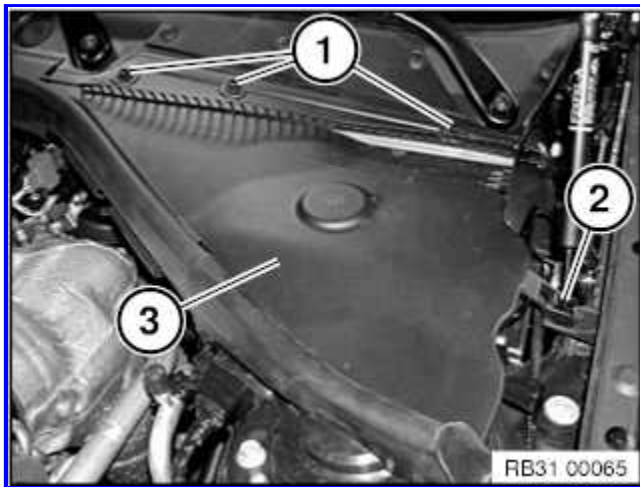
Slacken [wishbone bolt connection on front axle support](#) in order to prevent wishbone rubber mount from being damaged.

Remove [wishbone from swivel bearing](#).

Remove [track rod end from swivel bearing](#).



Remove [trailing link from swivel bearing](#)



Unlock closures (1).

Press clamps (2) together and lift.

Remove cover (3).

Installation note:

Make sure closures are correctly locked.



Warning!

Danger of injury!

Secure spring strut against dropping.

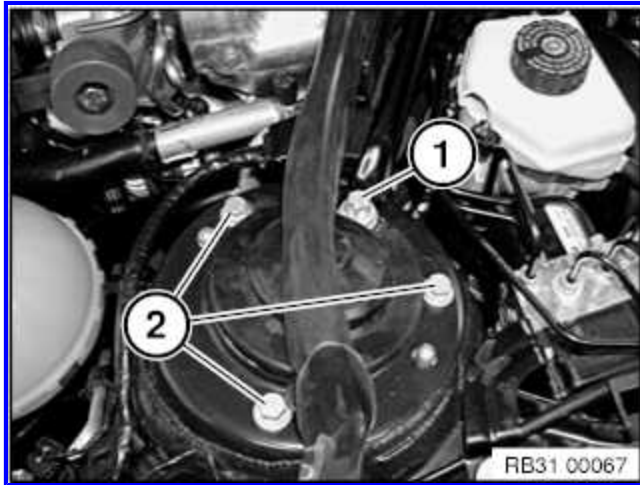
Release screw (1) on suspension cross-brace.

Tightening torque [51 61 1AZ](#).

Release screws (2) and remove spring strut with swivel bearing towards bottom.

Tightening torque [31 31 1AZ](#).

Installation note:



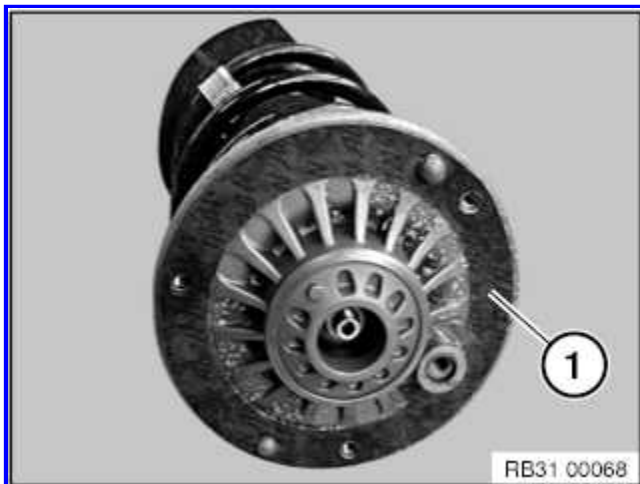
Replace screws (1) and (2).

Clean inside contact surface at spring strut dome.

Align spring strut with boreholes on spring strut dome using centring pins and push up.

Important!

While screwed in, the screws (2) must be sealed with BMW part no. 83 42 0 428 190 cavity preservation/spray sprayed from above onto the spring strut dome in order to prevent moisture penetration between the screw head and spring strut dome and thus prevent corrosion.



Installation note:

Check sealing washer (1) for damage, renew if necessary.



After installation:

- Carry out [wheel alignment procedure](#).