

33 31 503**Lowering/raising rear axle support
(universal lifter)****Special tools required:**

- [31 5 250](#)
- [00 2 030](#)
- [31 5 256](#)
- [31 5 253](#)
- [33 5 206](#)

**Warning!**

Failure to comply with the following instructions may result in the vehicle slipping off the lifting platform and critically injuring other persons.

Load the luggage compartment with a minimum of 100 kg before lowering/removing the rear axle support. This prevents the vehicle from tilting or sliding off the vehicle hoist!

When supporting components, make sure that:

- the vehicle can no longer be raised or lowered
- the vehicle does not lift off the locating plates on the vehicle hoist.

**Important!**

Before lowering/removing rear axle support:

Observe [safety instructions](#) for raising the vehicle

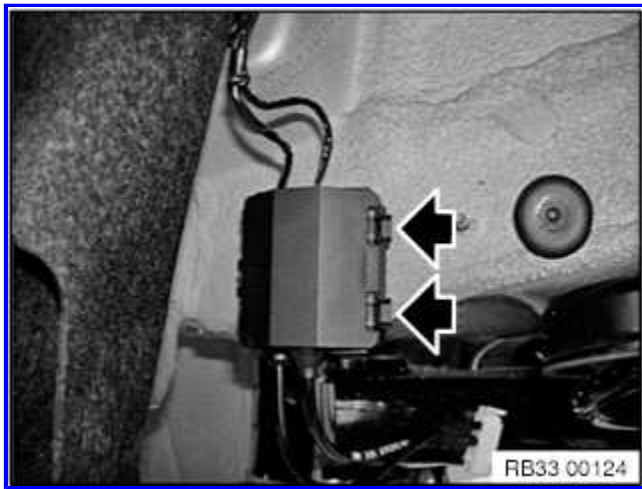
In order to avoid damage to vehicle hoist, perform weight compensation on vehicle.

Necessary preliminary tasks:

- Remove [rear wheels](#).
- Remove [exhaust system](#).
- If necessary, remove rear tension struts.

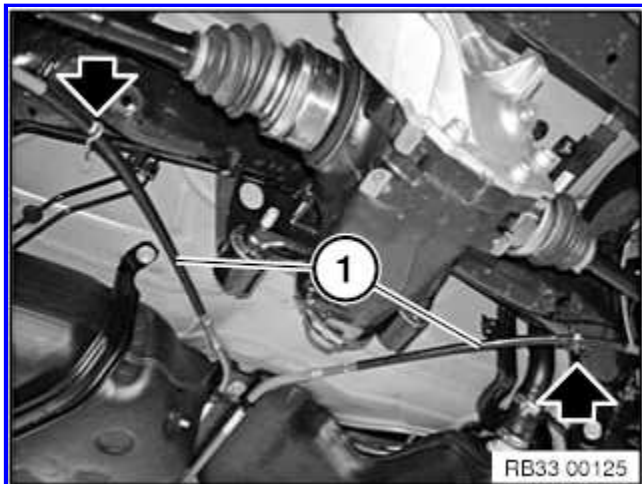


- Remove [propeller shaft at final drive](#).
- Remove [camber arm cover](#).
- Remove [tank cover](#).
- Remove [coil springs](#).
- [Remove both brake-caliper supports](#) and tie up.
- Release [shock absorber from camber arm](#).
- Only on ride-height sensor at left: Disconnect plug connection and lay cable back toward vehicle.



Release wheel arch panel in rear area.

Unlock clamps, open cover and detach connector. (Left side identical.)

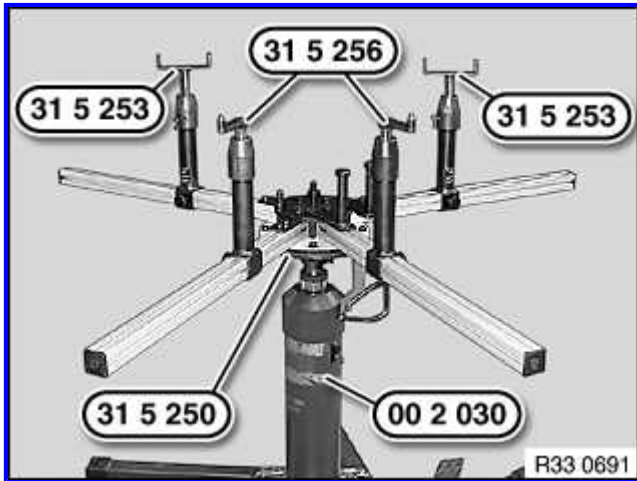


Detach Bowden cable (1) of parking brake from rear axle support.

Engage special tool [31 5 250](#) with a 2nd person helping completely on workshop jack [00 2 030](#).

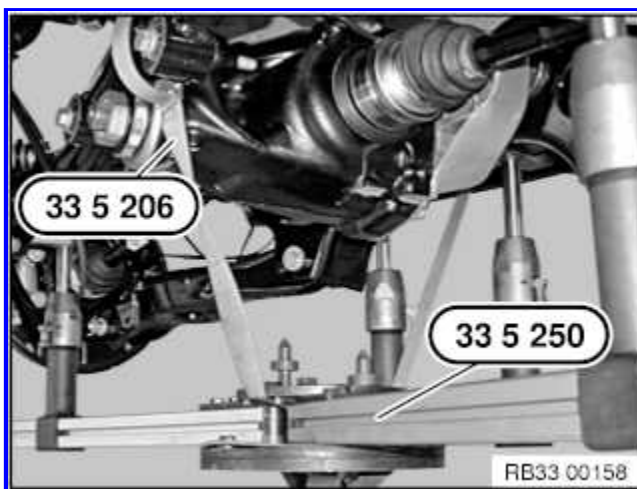
Insert special tools [31 5 256](#) in telescopic supports of a profile rail pair.

Insert special tools [31 5 253](#) in telescopic supports of other profile rail pair.



Note:

In a profile rail pair, two profile rails are connected to one another by gearing.



Lash rear axle support with tensioning strap [33 5 206](#) to special tool [31 5 250](#).

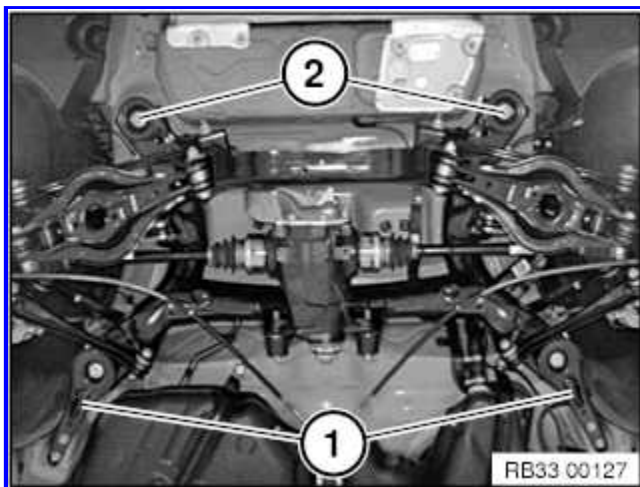
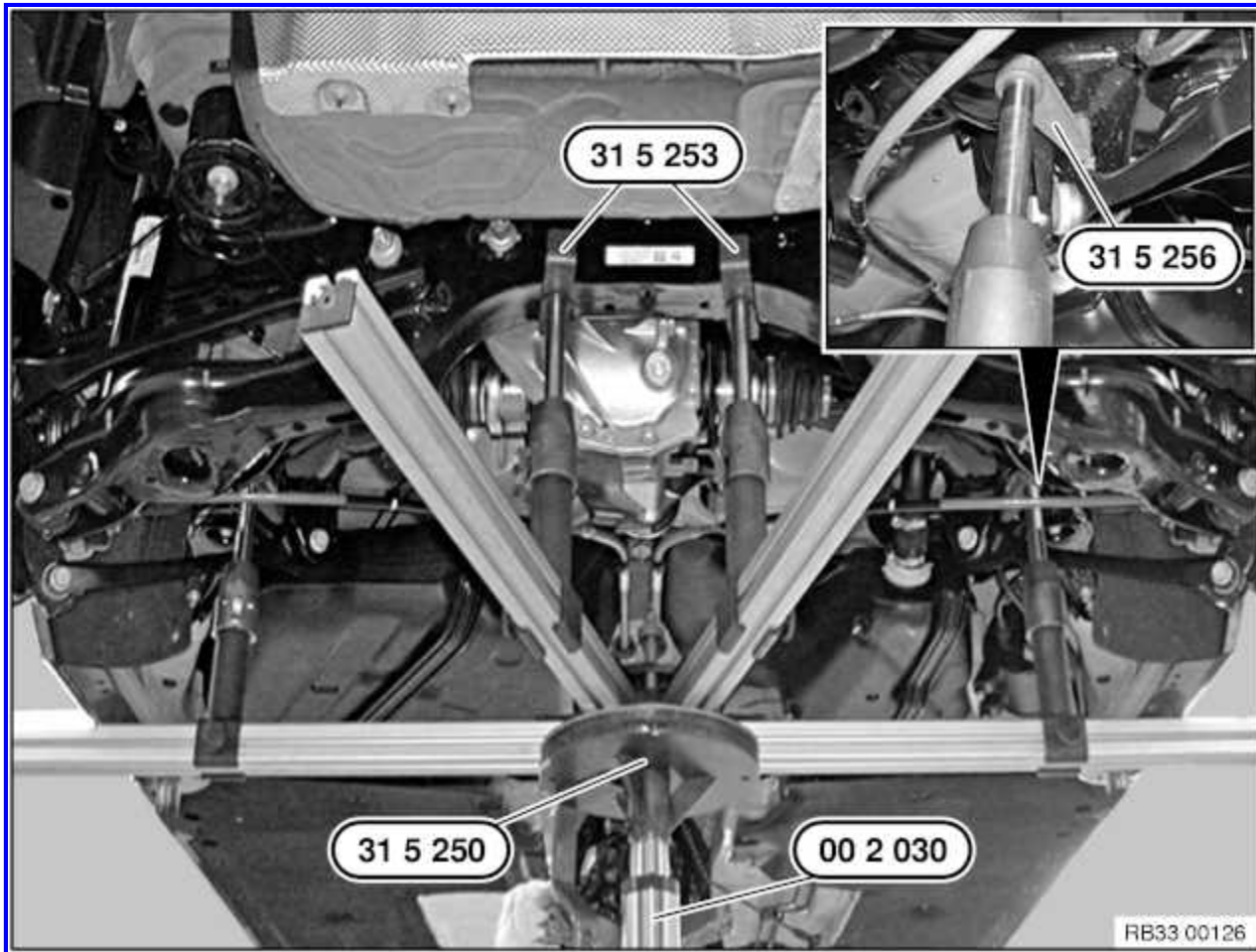
The mounting points on the right side are shown.

Align special tools [31 5 250](#), [31 5 253](#) and [31 5 256](#) with rear axle support.

Support rear axle support by operating workshop jack [00 2 030](#).

Important!

The centre of gravity of the rear axle must be positioned centrally over the workshop jack.



Remove [compression struts](#) (1).

Release screws (2) and remove with thrust washer. (F34 - see next graphic)

Tightening torque [33 33 1AZ](#)

Lower rear axle support.

Installation note:

Check threads for damage; if necessary, repair with [Helicoil thread inserts](#).

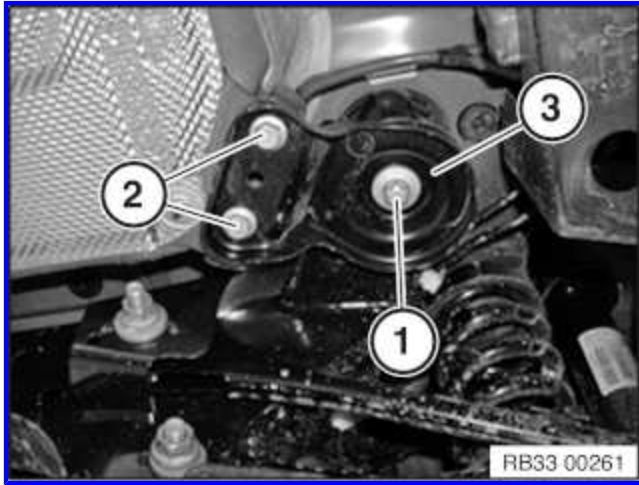
Screw in all screws, first tightening the [compression struts](#) (1) and then screws (2).

F34 only:

Unfasten screws (2).

Tightening torque [33 33 3AZ](#).

Release screw (1).



Tightening torque [33 33 1AZ](#).

Remove rear compression strut (3).