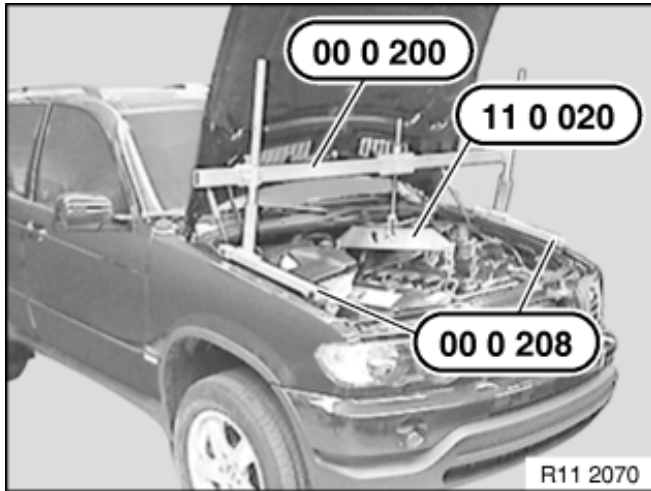


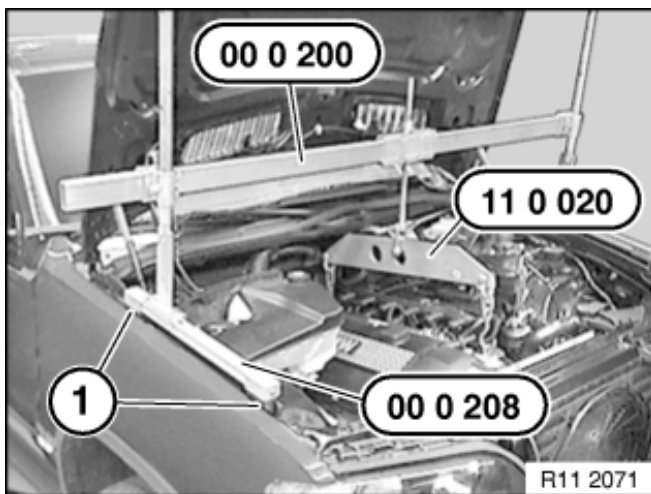


Remove upper section of suction filter housing with mass air flow sensor.



Fit special tool [00 0 200](#) to special tool [00 0 201](#) / [00 0 202](#) / [00 0 204](#) / [00 0 208](#) and attach.

Attach special tool [11 0 020](#) as shown in illustration to special tool [00 0 200](#) .

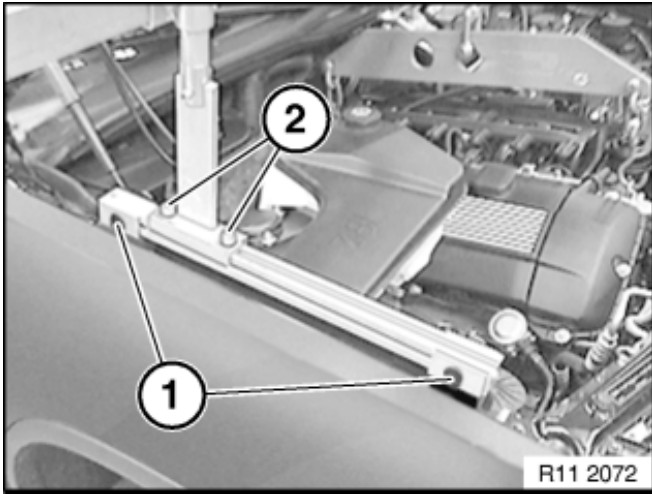


Secure special tool [11 0 020](#) to front and rear engine suspension eyes.

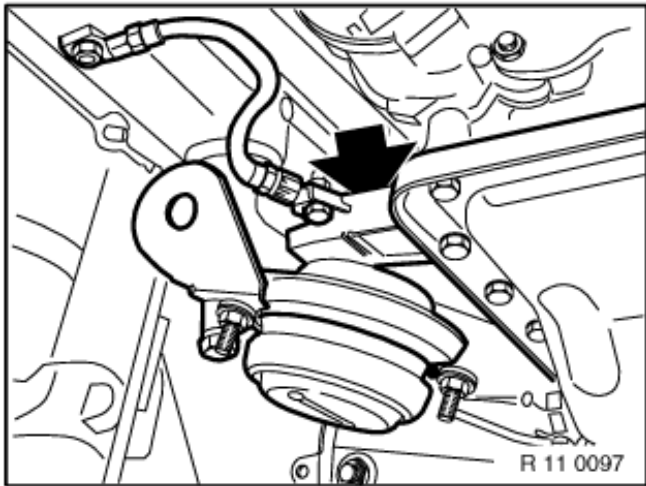
Caution!

Make sure no lines or cables on rear side of engine are damaged by chain.

The supports (1) of special tool [00 0 208](#) must make contact with the screws on the side walls.



Tighten the screws (1 and 2).



Unfasten top left and right nuts on engine mount.



Raise engine with special tool [00 0 200](#) approx. 5 mm.



Remove front splash guard.
Remove reinforcement plate.

Caution!

The section "[Removing and installing reinforcement plate](#)" contains important installation instructions.



[Remove left and right swivel bearings.](#)

[Remove output shafts.](#)

[Remove drive shaft at front.](#)



Remove alternator drive belt from belt pulley for vane pump.

Remove vane pump for power steering.

Note:

Lines remain connected.

Tie vane pump to one side.



Open oil drain plug and drain off engine oil.

Disconnect return hose from oil separator.

Remove guide pipe for dipstick.

Installation:

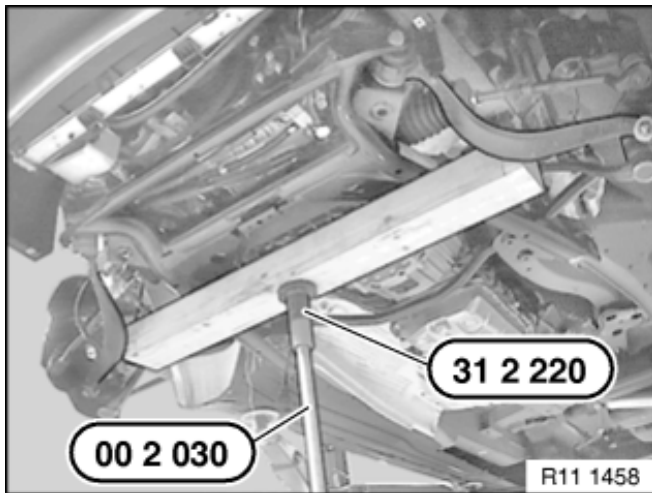
Replace O-ring.



Unfasten steering spindle from steering gear. This operation is described in the section "[Removing and installing steering gear](#)".

Provisionally reinstall left and right swivel bearings and connect with a screw to spring strut.

Provisionally connect tension strut, control arm and tie rod to swivel bearing.



As shown in illustration, support front axle support with special tool [00 2 030](#) in conjunction with special tool [31 2 220](#) and a block of wood.



Note:

Steering gear remains bolted to front axle support. Return hose of steering gear must not be overstretched when front axle support is lowered.

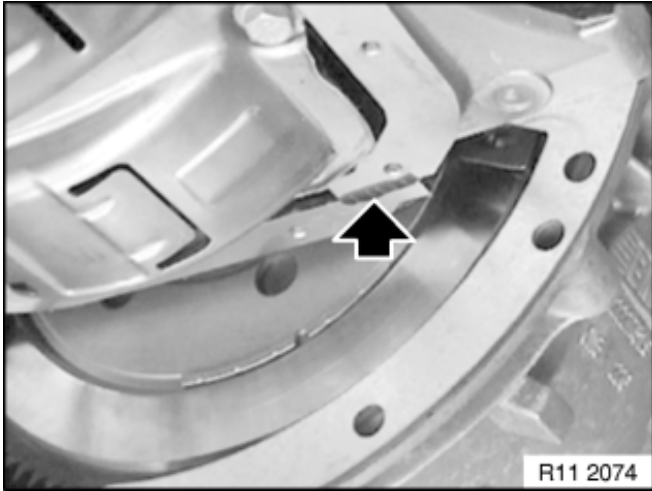
Detach front axle support from engine carrier and carefully lower by approx. 90 to 100 mm. [Tightening torque and installation instructions for front axle support.](#)



Remove front axle differential.

Release screws on oil sump.

Move oil sump backwards.



Installation:

Sealing faces clean and free of seal debris.

In area of joints on end and timing case covers:

Apply Drei Bond 1209 sealing compound (refer to BMW Parts Service) approx. 3 mm wide and 2 mm high.



Installation:

1. Replace gasket
2. Install oil sump.
3. Insert all oil sump screws.
4. Insert screws in transmission end without preload at this stage.
5. Tighten down screws in engine end.
6. Tighten down screws in transmission end.

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