



Work for E81, E82, E87, E88, E90, E91, E92, E93 is described in:
Removing and installing/sealing cylinder head cover (N52K)



Important!

Aluminium-magnesium materials.

No steel screws/bolts may be used due to the threat of electrochemical corrosion.

A magnesium crankcase requires aluminium screws/bolts exclusively.

Aluminium screws/bolts must be replaced each time they are **released**.

Aluminium screws/bolts are permitted with and without colour coding (blue).

For reliable identification:

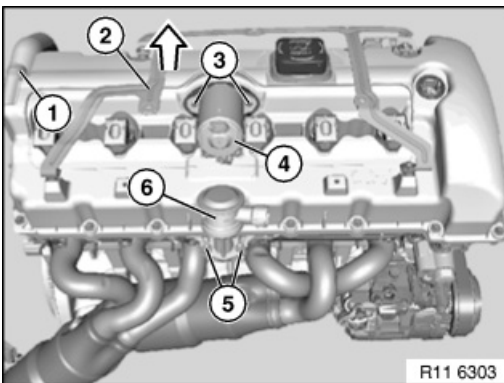
Aluminium screws/bolts are **not magnetic**.

Jointing torque and angle of rotation must be observed without fail (**risk of damage**).



Necessary preliminary tasks:

- Remove trailing link
- Remove ignition coils
- Release ignition wiring harness in cylinder head cover area



Unlock and detach vent hose (1).

If necessary, pull off metal bracket (2) in direction of arrow.

Release screws (3) on electric servomotor.

Tightening torque 11 37 3AZ.

Note:

A further screw, which cannot be seen in the image, must be released under the electric servomotor (4).

Release screw on electric servomotor.

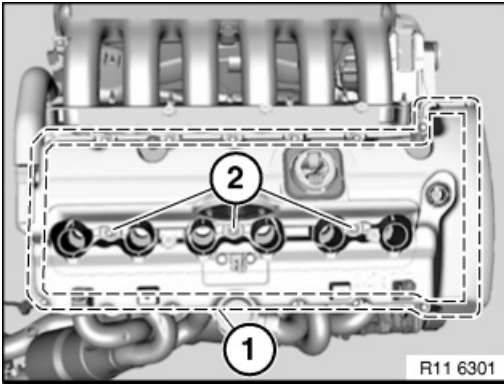
Tightening torque 11 37 3AZ.

Remove servomotor (4) in direction of arrow.

If necessary, release nuts (5).

Tightening torque 11 72 1AZ.

If necessary, remove secondary air valve (6).



Important!

Observe different screw lengths.

Installation location of screws (1 and 2) is specified by the different bush shapes.

Release screws in area (1).

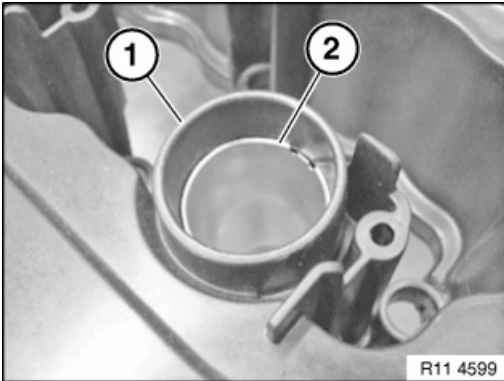
Tightening torque 11 12 5AZ.

Installation note:

Replace aluminium screws.

Release threaded bolt (2).

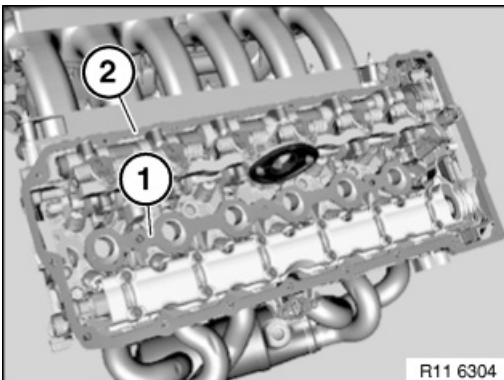
Tightening torque 11 12 5AZ.



Installation note:

Slotted sleeves (2) for guiding ignition coils in cylinder head cover (1) must be replaced.

Remove slotted sleeves (2).



Installation note:

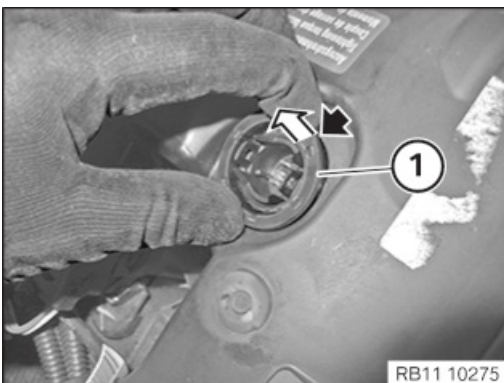
Clean all sealing surfaces (1 and 2).

Important!

Do not use any metal-cutting tools.

Installation note:

Replace gaskets (1 and 2).



Replace eccentric shaft sensor sealing ring (1) as necessary. *Installation note:*

This operation cannot be performed with the cylinder head cover installed.



Assemble engine.

