

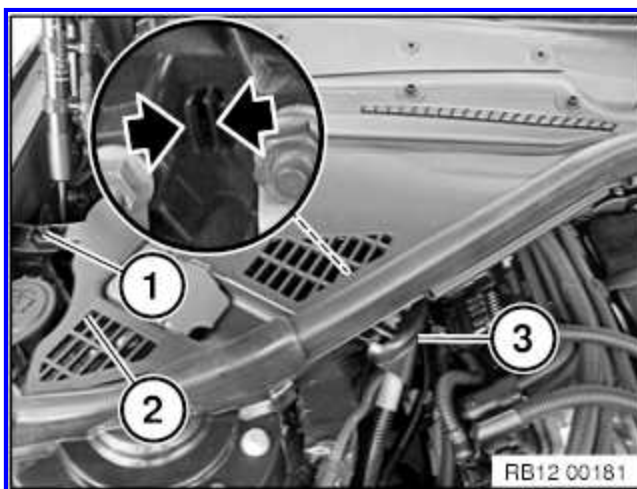
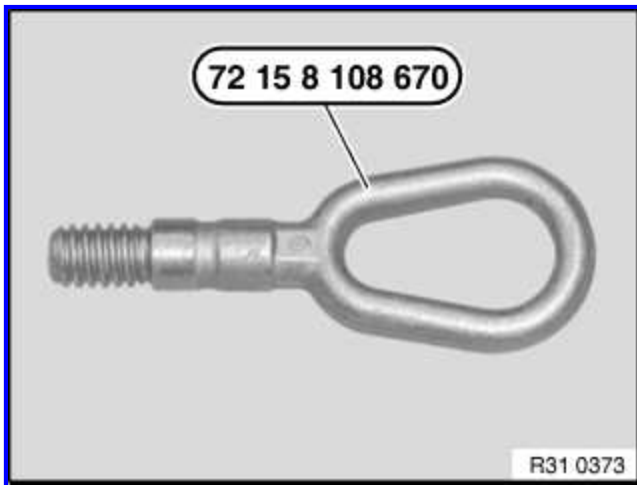
11 00 050**Removing and installing engine (N55)****Special tools required:**

- [11 0 000](#)
- 11 7 310
- 11 8 680
- 13 5 281
- 13 5 282

*Necessary preliminary tasks:*

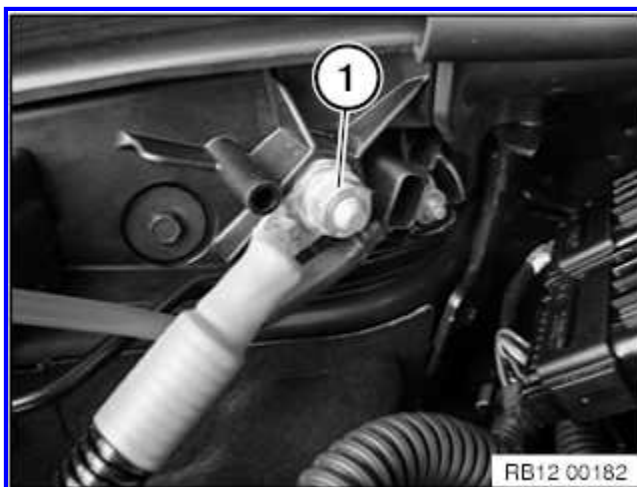
- Disconnect [negative battery lead](#).
- Move [engine compartment lid](#) into service position.
- Remove [intake plenum](#).
- Remove cowl panel [cover](#).
- Remove [clean air pipe](#).
- [Remove left charge air duct](#).
- Remove right [charge-air duct](#).
- Remove [expansion tank](#).
- Remove [thermostat](#).
- Remove rear [ignition coil cover](#).
- Remove [air conditioning compressor](#).
- Remove the [catalytic converter](#).
- Remove [transmission](#).
- Remove front output shaft (all-wheel drive vehicles only).
- Remove [radiator](#).
- Detach all coolant hoses from engine.
- Detach vacuum line from brake booster.

To remove or install the engine, the towing hook 72 15 8 108 670 is required.



Pull off rubber mount (1) and slightly raise service cover (2) until lock of cover (3) is accessible.

Unlock lock and remove cover (3).



Slacken nut (1).

Tightening torque [12 42 3AZ](#).

Remove positive battery cable from battery positive terminal.

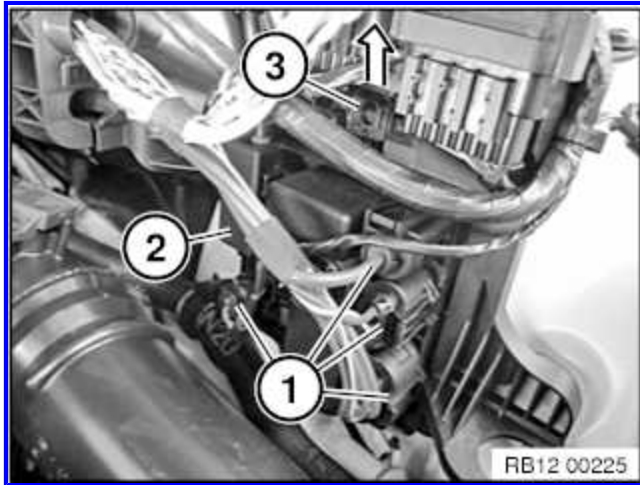
Unlock and pull off all connectors (1) from power distribution module.

Remove cover (2).

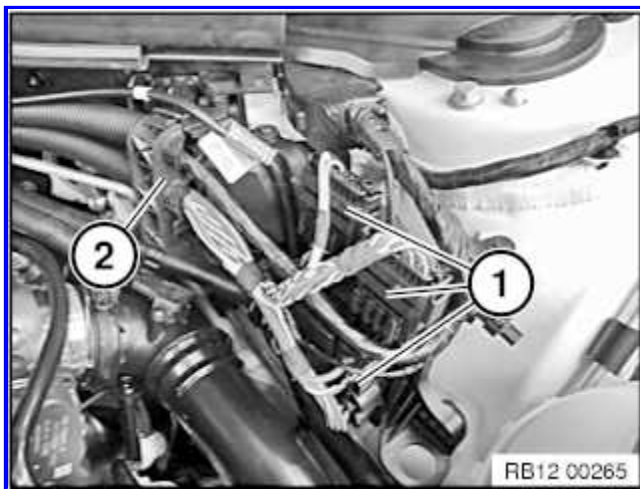
Release nut beneath it and set positive battery cable aside.

Tightening torque [12 52 7AZ](#).

Release lock (3) in direction of arrow.

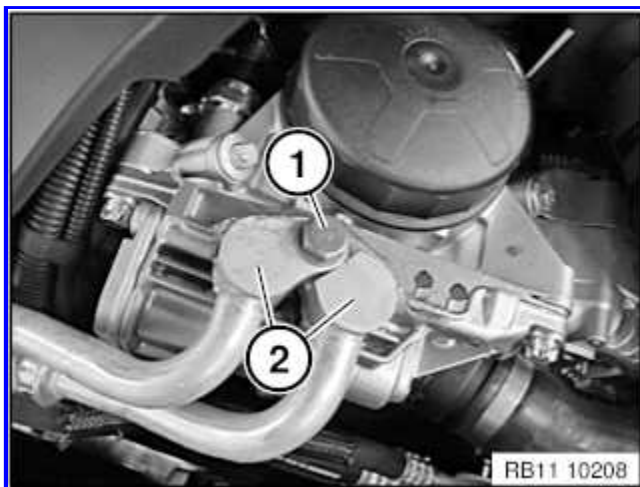


Feed out and remove power distribution module.



Unlock and pull off the connector (1) from the power distribution module and cable holders.

Release the clamp (2) and expose the wiring harnesses.



Note:

Hot-climate version

Release screw (1).

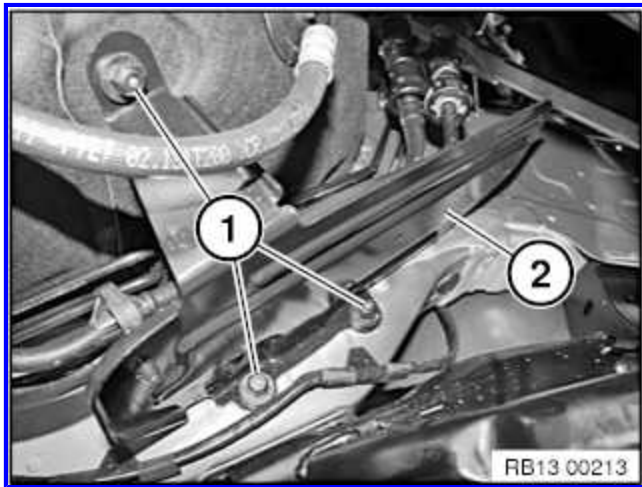
Remove oil pipes (2) from oil filter unit.

Release oil lines on cylinder head cover.

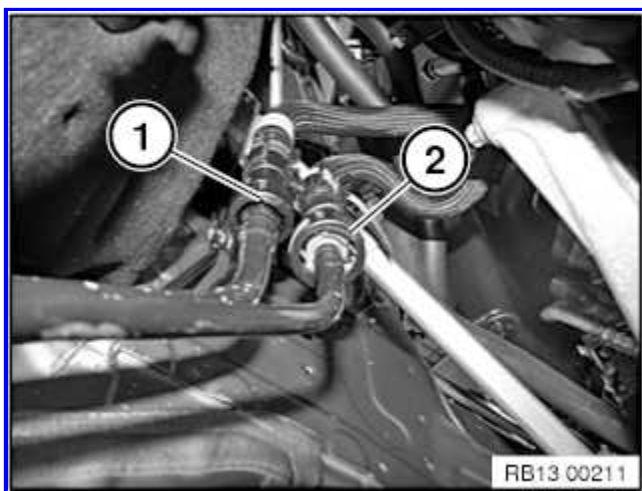
Unscrew nuts (1).

Remove power protective plate (2).

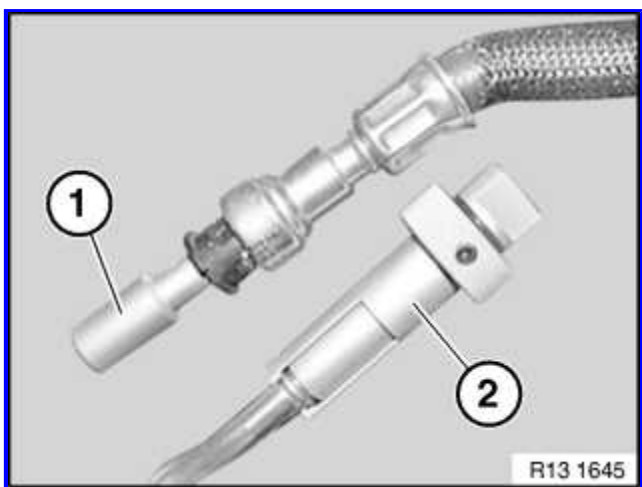
Release fuel lines from protective plate.



Unlock and disconnect fuel tank ventilation line (1).
 Unlock and disconnect fuel delivery line (2).

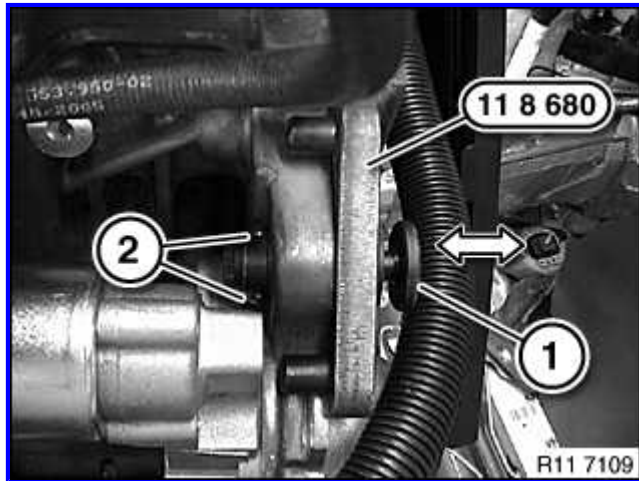


Close off fuel line (3) with special tool 13 5 281.
 Close off fuel line (2) with special tool 13 5 282.



Attach special tool 11 8 680 to rear lifting eye (gearbox side).
 Push ball lock pin (1) in direction of arrow and hold down until special tool 11 8 680X is positioned in lifting eye.
 Pull ball lock pin (1) outward in direction of arrow until both balls (2) are pushed outward.

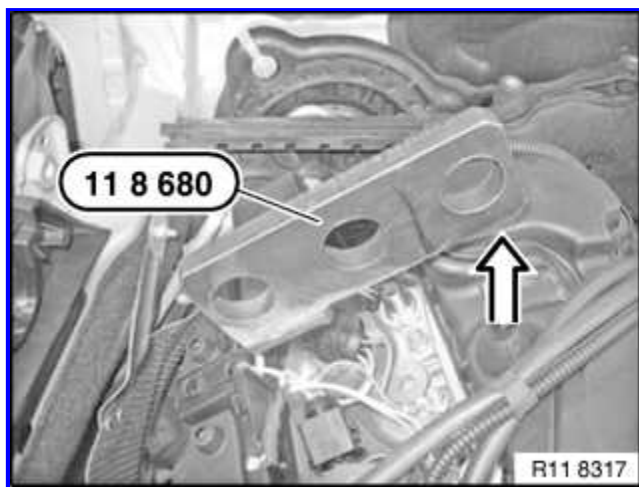
Installation note:



For checking correct mounting of special tool 11 8 680.

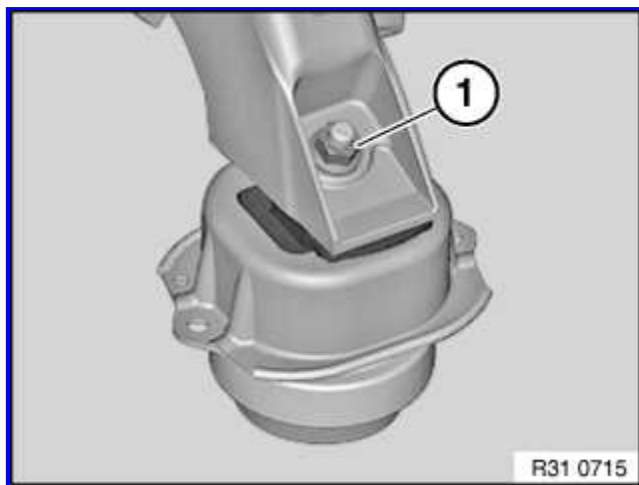
There must be a 6.5 mm gap between ball lock pin (1) and ball lock pin housing.

The gap dimension can be checked using a 6.5 mm drill.



Attach special tool [11 0 000](#) to engine crane.

Suspend special tool [11 0 000](#) from the designated mounting eyelets of special tool 11 8 680 only (see arrow).



Release nut (1) on engine mount on left and right.

Installation note:

Replace self-locking nuts.

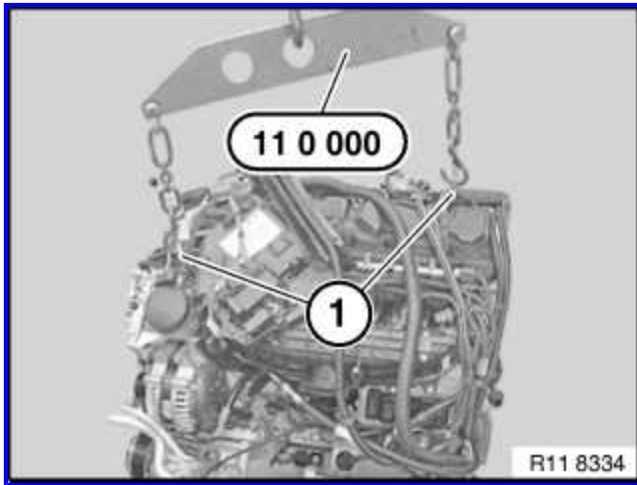
Tightening torque [22 11 2AZ](#).

Screw towing eye into cylinder head.

Tightening torque [11 12 5AZ](#).

Suspend special tool [11 0 000](#) from the designated mounting eyelets (1) only.

Lift engine out with engine crane.



Assemble engine.
Check function of DME.