

[BMW E71 X6 M SC](#) / [Repair Manuals and Technical Data](#) / [13 Fuel preparation and control](#) / [13 51 Injection pump, control section, mixture control unit](#) /

13 51 065 Removing and installing/replacing left high pressure pump (S63)



Warning!

Observe warning on cylinder head cover.

Disconnect [negative battery terminal](#) (risk of fire due to short circuit on removal).

Electric fuel pump starts up automatically when door is opened!

Carry out installation work on fuel system only with coolant temperature below 40 °C.



Important!

Wear full face guard and protective gloves.

Fuel can emerge spontaneously at high speed when the high pressure line is released!



Important!

Adhere to conditions of absolute cleanliness when working on the high-pressure fuel system.

Introduced contaminants can cause malfunctions in the system!

- Do not allow any dirt particles or foreign bodies to get into the system.
- Remove all traces of dirt before removing lines or separate components.
- Use only fluff-free cloths.
- Seal all fuel system openings with protective caps or plugs.

**Important!**

Ignition coils must not be contaminated by fuel.

The resistance of the silicone material is reduced significantly by contact with fuel, which may cause the ignition coil to fail!

Cover ignition coil with suitable means.

***Necessary preliminary tasks:***

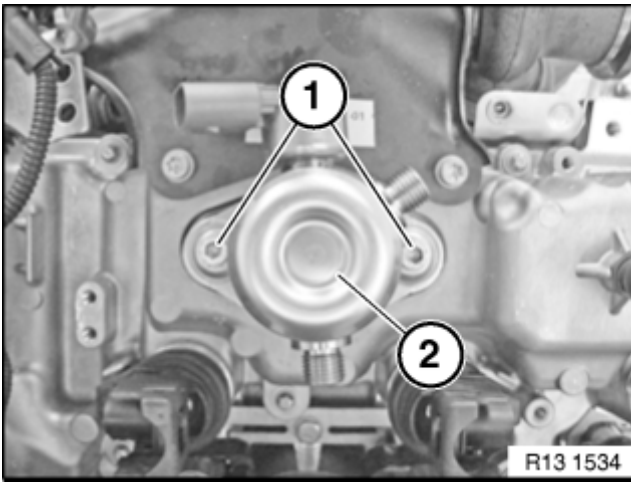
- Remove [fuel feed line](#)
- Remove the [high pressure line](#) from the high pressure pump on the left toward the rail

**Recycling:**

Fuel escapes when fuel lines are detached.

Catch and dispose of escaping fuel.

Observe country-specific waste disposal regulations.



Important!

High-pressure pump can be pretensioned by camshaft cams!

Slightly slacken screws (1) of high pressure pump (2). If the high pressure pump is forced out, the engine will have to be turned to bring the camshafts to a different position.

Otherwise it will not be possible to install the high-pressure pump! Release screws (1).

Replace screws. Screws are coated with a screw locking agent.

The pump plunger can fall out when the high-pressure pump (2) is pulled out! Detach high-pressure pump (2) and remove.

Engine oil can emerge when pulling off the pump; have cloths ready.

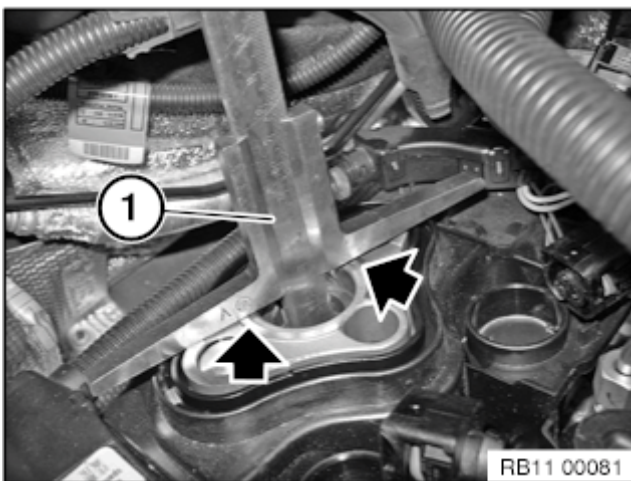
Installation note:

Before installing the high pressure pump, the cam of the high pressure pump drive must be turned to bottom dead centre. To do this, twist the engine if necessary in the direction of engine rotation to the central bolt of the crankshaft.

Adhere to tightening/torque sequence.

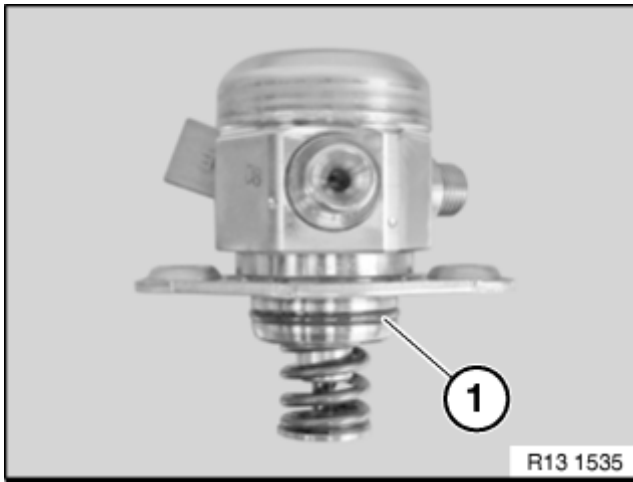
Provisionally fasten screws (1) and tighten alternately in 90° increments until final torque.

Tightening torque [13 51 1AZ](#).



Place depth gauge (1) flat on fuel pump flange (see arrow) (shown on N43 engine).

Turn engine at central bolt in direction of engine rotation until the depth gauge shows that the camshaft has reached the BDC position.



Installation note:
Replace sealing ring (1).
Clean contact surfaces.



Assemble engine.
Check fuel system for tightness.
Check function of DME.

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