

 **11 43 010 Replacing oil level indicator**
+ **11 43 510**

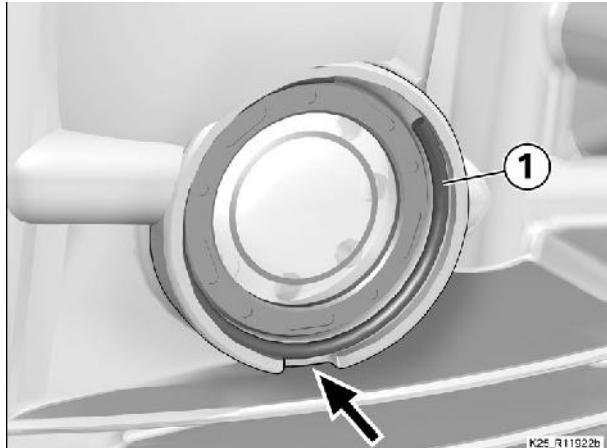
Preparatory work

Draining engine oil

Core activity

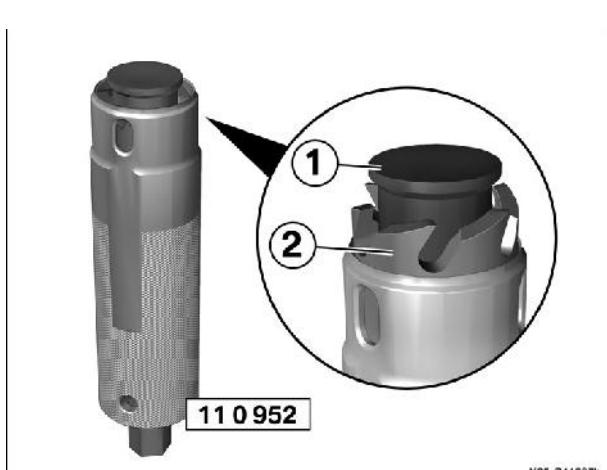
(-) Removing circlip

- Pry circlip (1) out at the bottom at the recess (arrow) and remove.



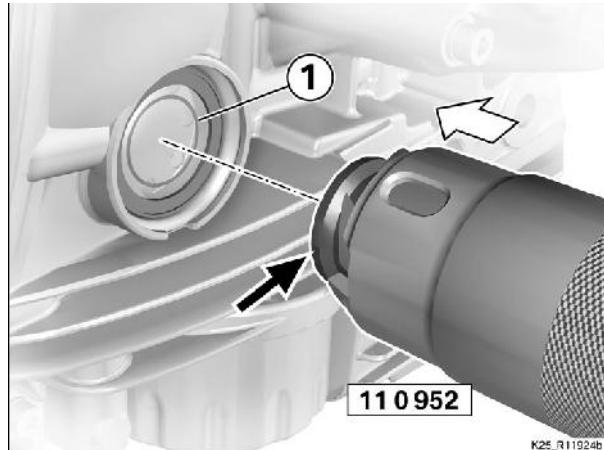
(-) Function, milling cutter

- Milling cutter (No. 11 0 952):
 - Guide (1)
 - Milling head (2)

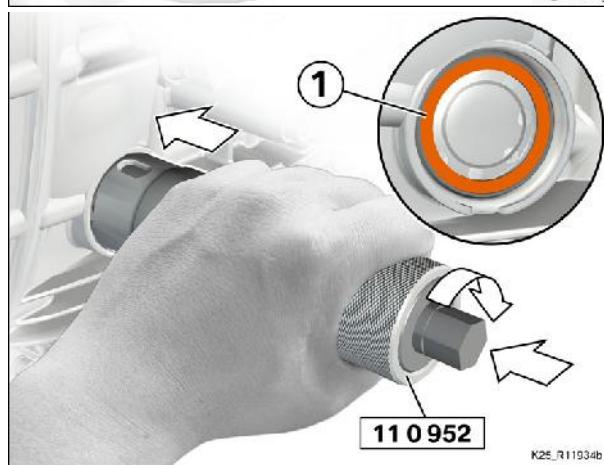


(-) Milling out rubber seal

- Centre milling cutter (No. 11 0 952) by means of the guide (arrow) on oil-level indicator (1).

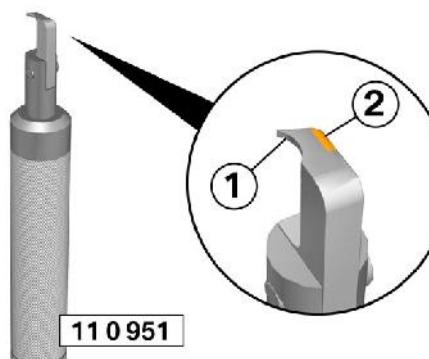


- Gripping the milling (No. 11 0 952) with one hand to guide it, press it **firmly into position**.
- Uniformly mill rubber seal (1).
- » The metal housing becomes visible all round.



(-) Function, scraper

- Scraper (No. 11 0 951) is for right-hand use.
- Hook (1) for removing the remains of the rubber seal
- Cutter (2) for trimming off projecting remains of the rubber seal

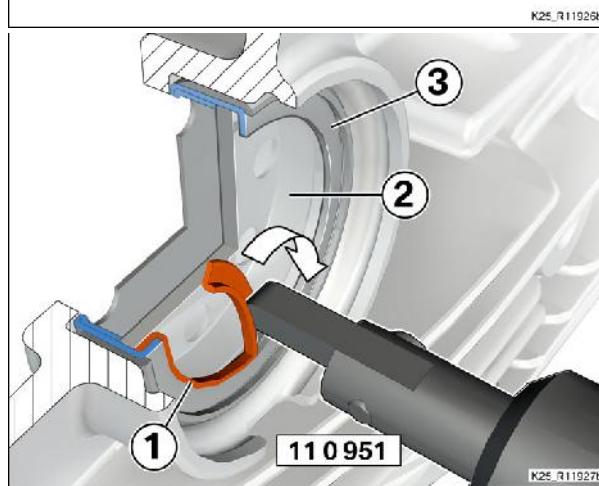
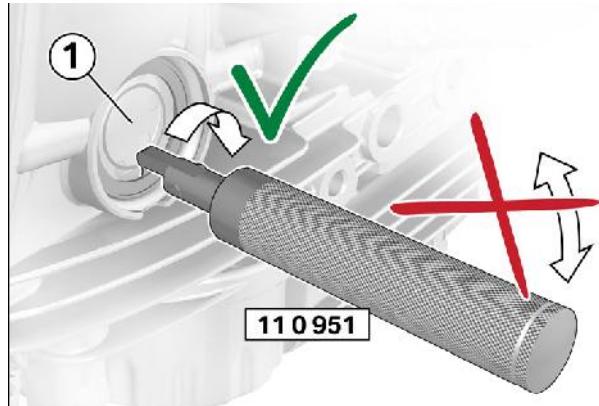


(-) Removing remains of rubber seal

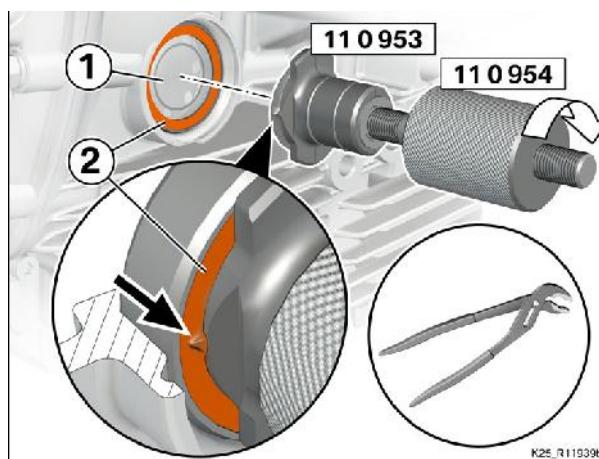


Injury due to splinters of glass.
Wear protective goggles.

- Use scraper (No. 11 0 951) **but without levering**, because this can cause sight glass (1) to splinter.



- Remove remains of rubber seal (1) between sight glass (2) and metal housing (3) all round **and taking care to remove all traces of the seal**. To do so, work scraper (No. 11 0 951) with a **turning action** clockwise.

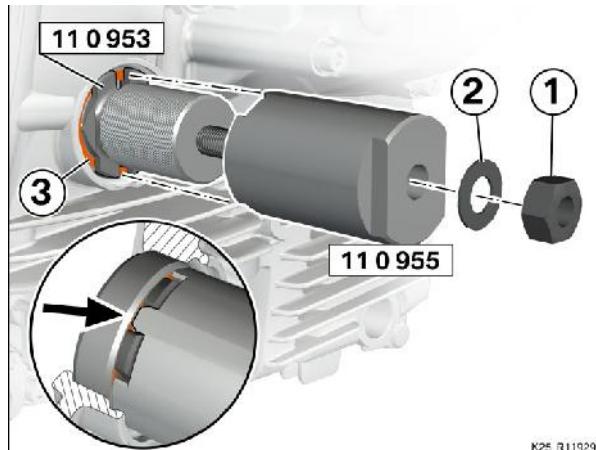


(-) Removing engine-oil level indicator

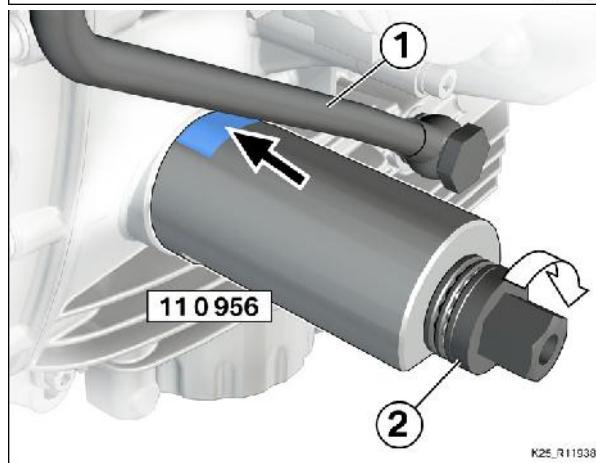
Attention

Overloading will result in damage to the puller.
All traces of the rubber seal removed.

- Screw sleeve (No. 11 0 954) on to puller (No. 11 0 953) and centre it on oil-level indicator (1).
- Continue tightening sleeve to expand the puller under metal housing (2).
 - Metal housing (2) bulges out (arrow).
 - Tighten the sleeve with **pliers**.
- Install thrust piece (No. 11 0 955) in such a way that the projection (arrow) is seated in the recess of the expanded puller (No. 11 0 953).
- Install nut (1) with washer (2) and **tighten**.
 - Metal housing (3) is held firmly by the puller and the thrust piece.
 - The puller is supported by the projection (arrow).

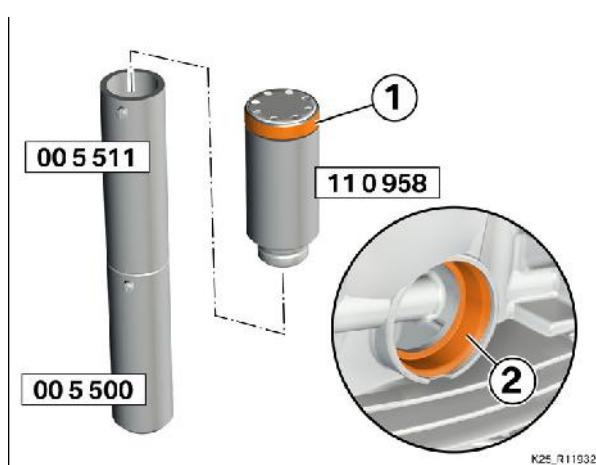


K2E_R11929b



K2E_R11930b

- Slip sleeve (No. 11 0 956) into position and turn it until it is seated correctly on the engine block.
- Oil line (1) is located in the recess (arrow) of the sleeve.
- Install thrust nut (2).
- Remove the oil-level indicator by tightening thrust nut (2).



K2E_R11932b

(-) Installing engine-oil level indicator

- Clean oil-level indicator (1) and sealing face (2) in the engine block. Use only very fine emery paper and work very carefully to remove heavy deposits and corrosion residues.
- Position oil-level indicator (1) on drift (No. 11 0 958) with extension (No. 00 5 511) and handle (No. 00 5 500).

Attention

An oil-level indicator installed with lubricant can work loose.
Use only brake cleaner for the installation process.

- Spray sealing faces (1) and (2) generously with **brake cleaner**.



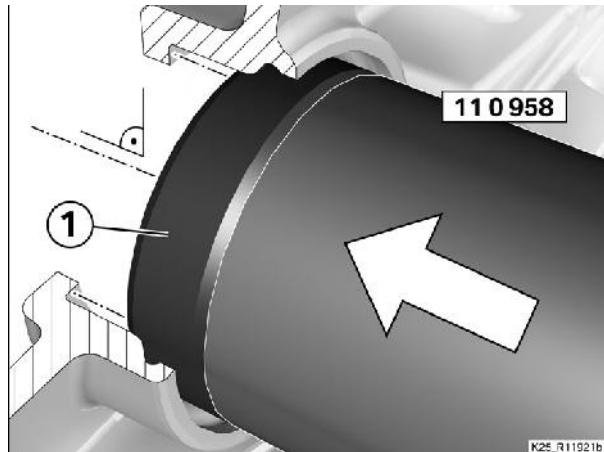
Cleaner

Brake cleaner	83 19 2 154 780
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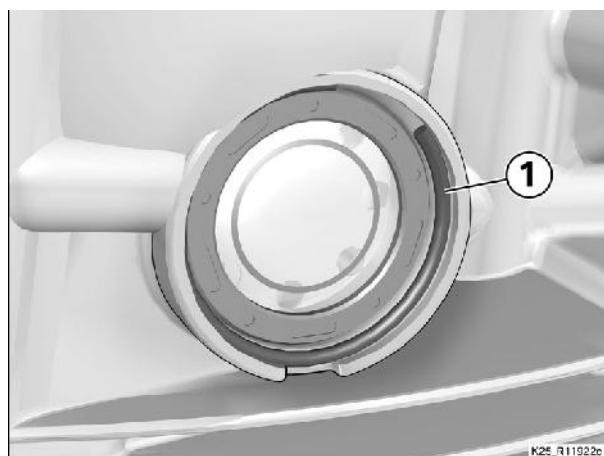
Attention

Oil-level indicator can be damaged.
Do not tilt the drift in the process of installation.

- Position oil-level indicator (1) square to the bore and **rapidly** and without



allowing it to tilt, install it with drift (No. 11 0 958) until seated.



(-) Install circlip

- Install circlip (1).



Note

On completion of all work start the engine, allow it to heat up to operating temperature, and check the oil-level indicator for leaks.

Finishing work

Pouring engine oil into engine

Checking engine oil level

Final check of work performed