

11 14 005

Replacing front crankshaft seal (N55)

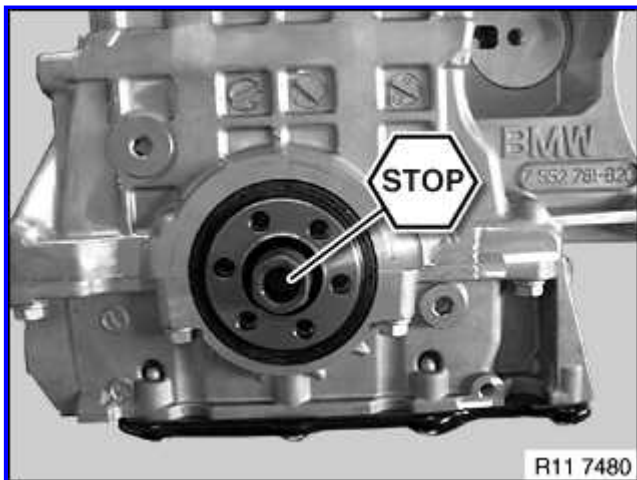
**Special tools required:**

- [11 0 371](#)
- [11 0 372](#)
- [11 4 370](#)
- [11 9 221](#)
- [11 9 222](#)
- [11 9 224](#)
- [11 9 231](#)
- [11 9 233](#)
- [11 9 234](#)
- [11 9 235](#)

*Necessary preliminary work:*

- Remove [vibration damper](#)

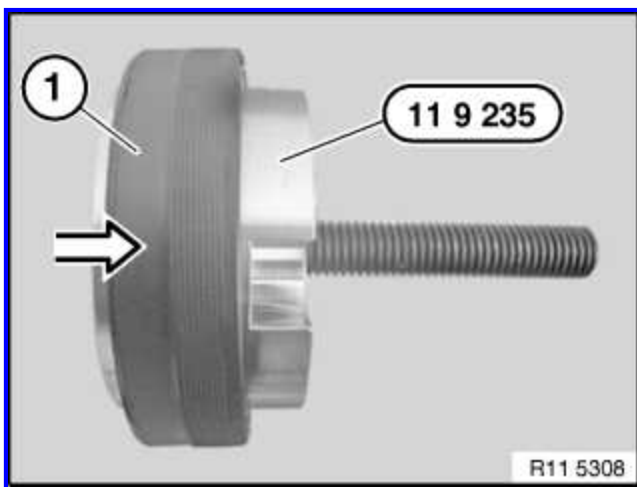
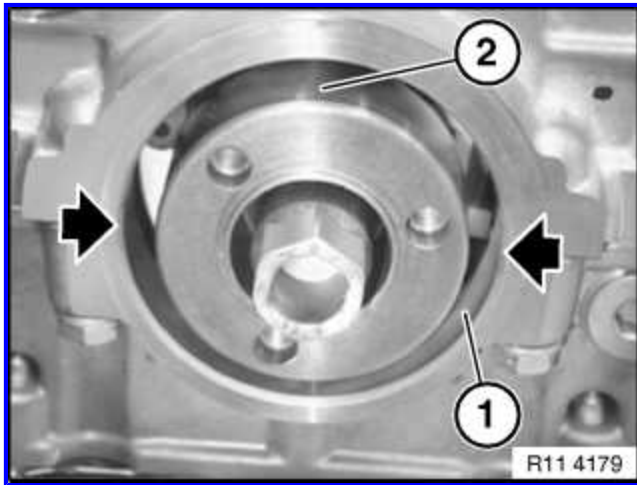
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**Important!****Do not release central bolt.**

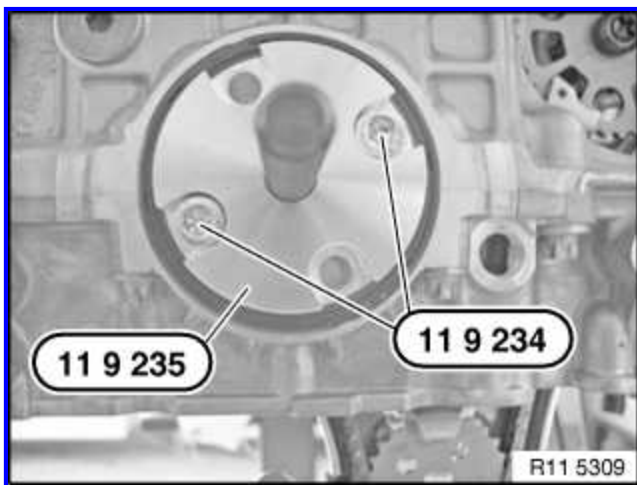
If the central bolt is released, the sprockets of the timing chain and the oil pump will no longer be non-positively connected to the crankshaft. Intake and exhaust camshafts can turn in relation to crankshaft.

Risk of damage!

Screw special tool [11 0 371](#) with 80 Newton metres into the



Push radial shaft seal (1) [11 9 235](#) carefully in direction of arrow on the special tool .



Important!

[11 9 235](#) Special tool can only be fastened with 2 opposite bolts.

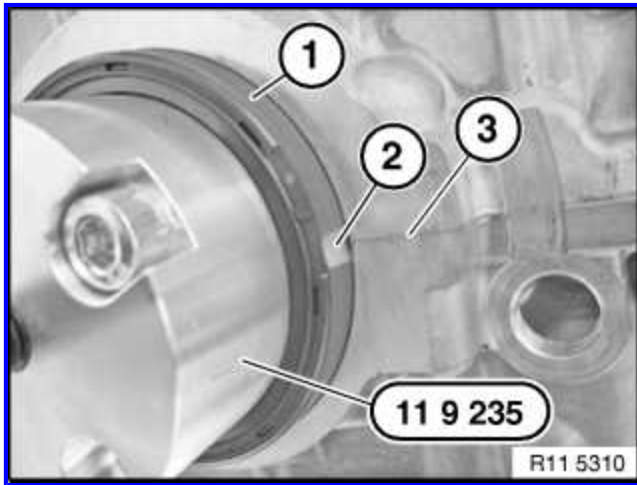
Determine hole pattern on special tool.

Screw special tool [11 9 235](#) with special tool [11 9 234](#) on crankshaft.

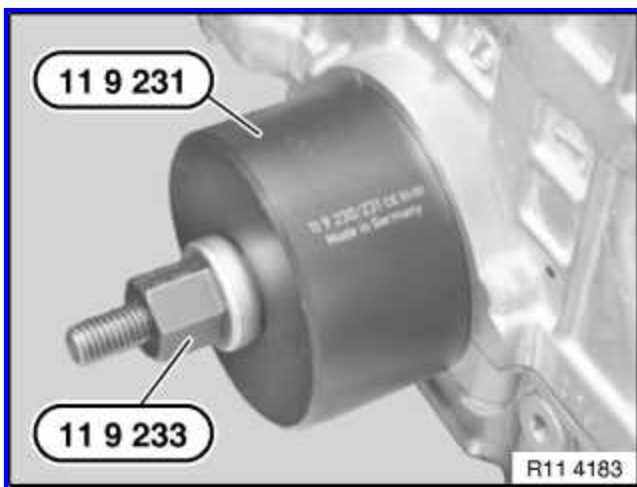
Align groove (2) of radial shaft seal (1) centred to the housing partition (3).

Important!

After installation, the grooves must be filled with sealing compound.

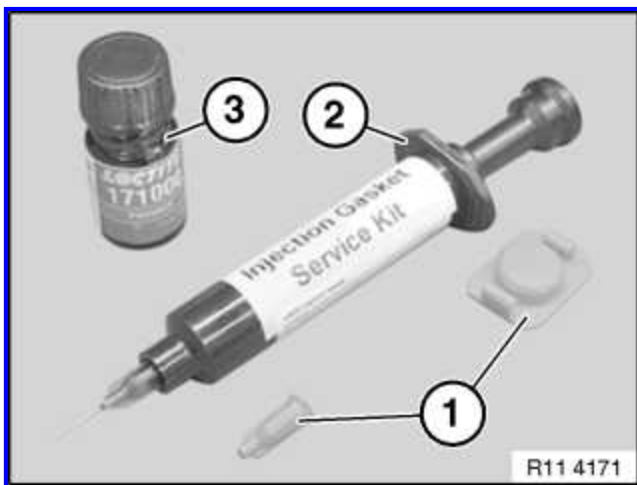


R11 5310



R11 4183

Draw in radial shaft seal with special tool [11 9 231](#) in conjunction with special tool [11 9 233](#) until flush.



R11 4171

Installation note:

Use [primer 1.3](#) and [liquid seal 1.4](#).

Prepare liquid sealing compound (1) in special tool [11 4 370](#).

Remove sealing caps (1) from injector (2).

Screw on metering needle.

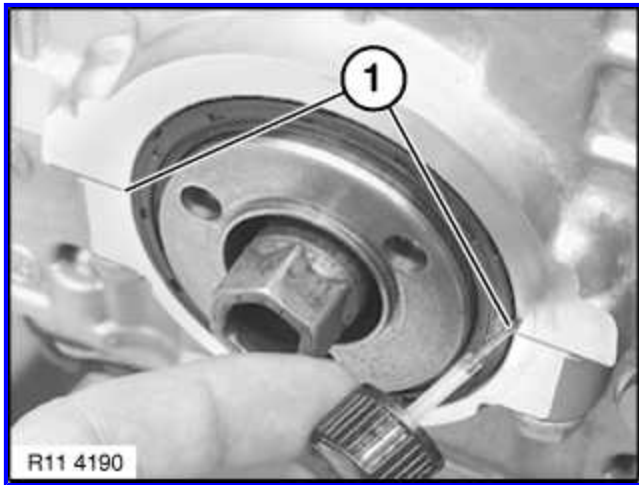
Insert piston for pressing out.

Syringe (2) contains the sealing compound Loctite, manufacturer's number 128357.

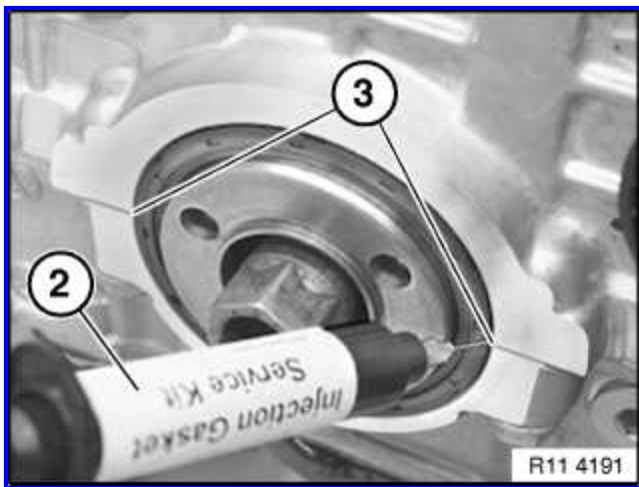
Bottle (3) contains the primer Loctite, manufacturer's number 171000.

Before filling with sealing compound:

Moisten brush with Loctite primer, manufacturer's number 171000. Insert brush as far as possible into grooves (1) on crankshaft seal in order to coat housing partition on engine block.

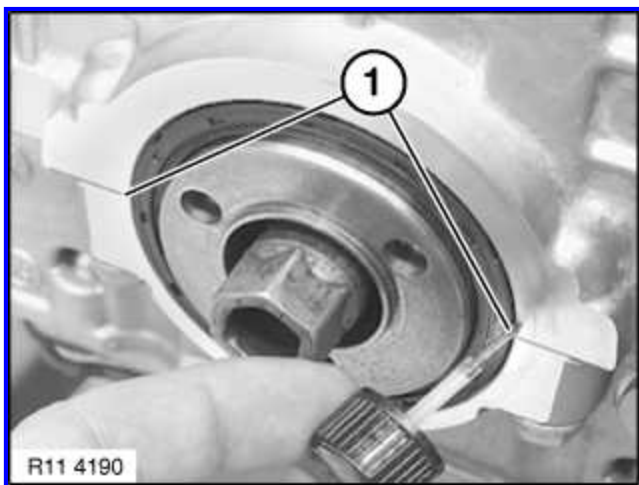


Graphic N42.



Using syringe (2), fill both grooves (3) flush with Loctite sealing compound, manufacturer's number 128357.

Graphic N42.

*Note:*

Loctite primer, manufacturer's number 171000, binds the Loctite sealing compound, manufacturer's number 128357, and prevents leakage.

Coat surface of sealing compound in both grooves (1) with Loctite primer, manufacturer's number 171000.

Graphic N42.

Assemble engine.

