

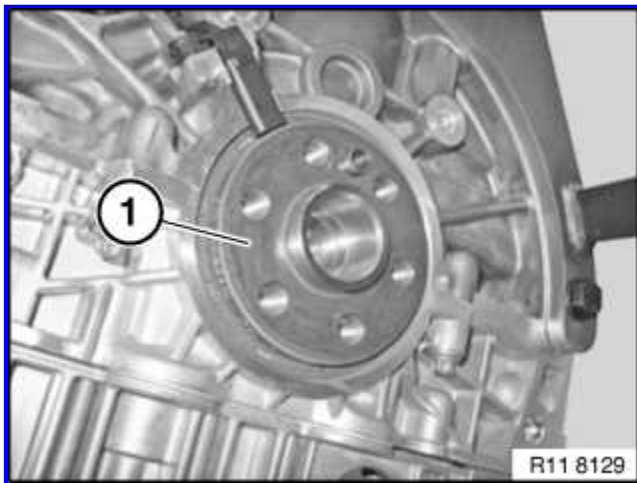
11 14 151**Replacing radial crankshaft seal on transmission side (N55)****Special tools required:**

- [11 8 220](#)
- [23 0 490](#)
- [11 9 180](#)
- [11 9 183](#)

**Necessary preliminary work:**

- Remove [flywheel](#)

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**Important!**

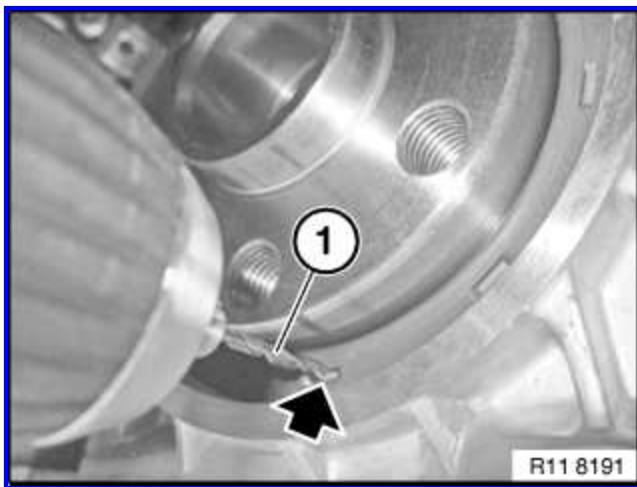
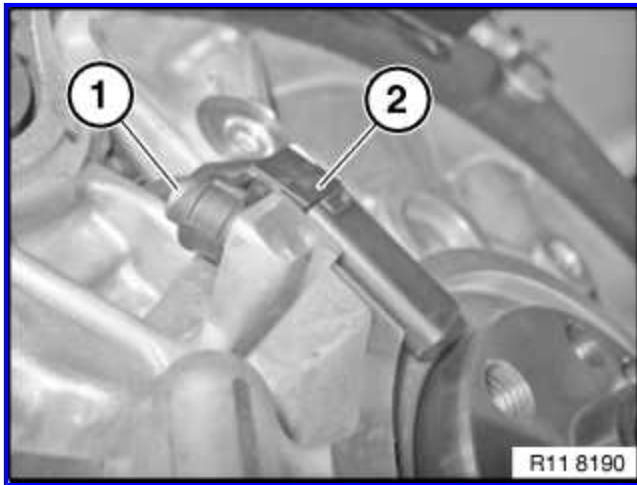
Magnet wheel (1) is magnetic.

Keep magnet wheel (1) in a plastic bag away from swarf.

Remove magnet wheel (1) from crankshaft.

Release screw on pulse sensor (1).

Slide [pulse sensor](#) (2) upwards.

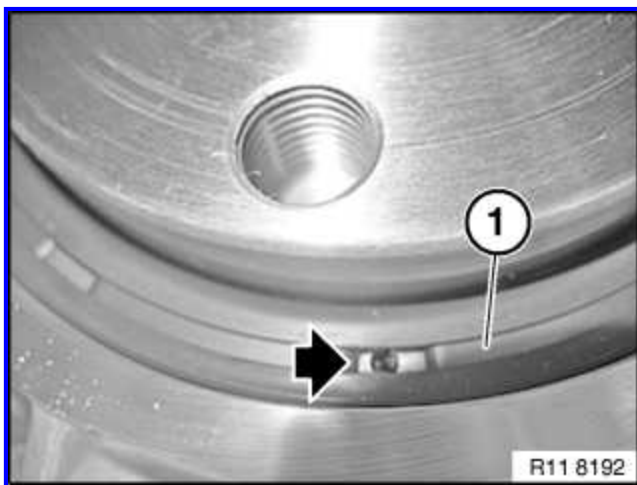


Important!

Drill size maximum 2.5 millimetres.

Remove swarf immediately.

Drill a hole with a drill (1) in the radial shaft seal (see arrow).



Important!

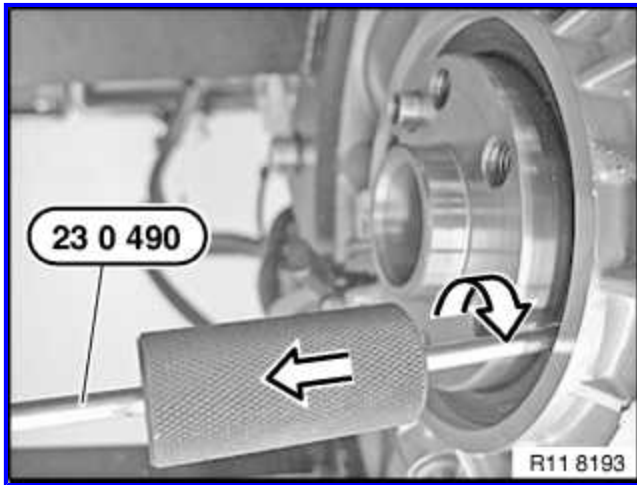
Immediately carefully remove swarf on the radial shaft seal (1).

Screw in special tool [23 0 490](#) in direction of arrow.

Drive out radial shaft seal with impact weight in direction of arrow.

Important!

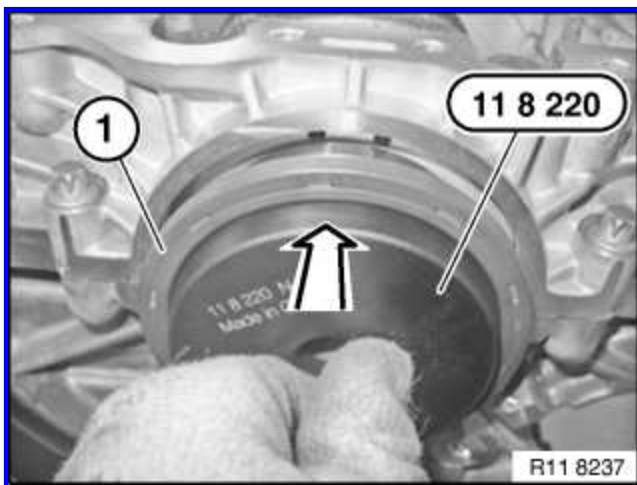
Immediately carefully remove residual swarf.



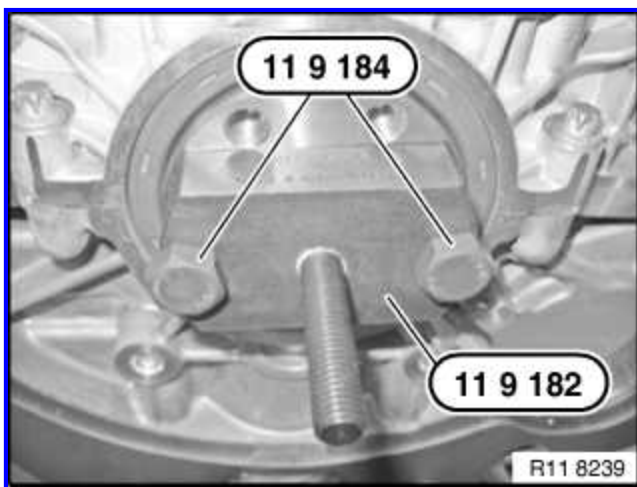
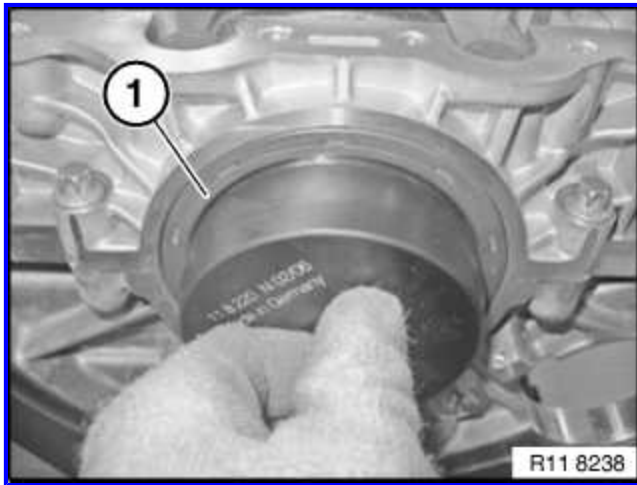
Prepare radial shaft seal (1) on special tool [11 8 220](#).



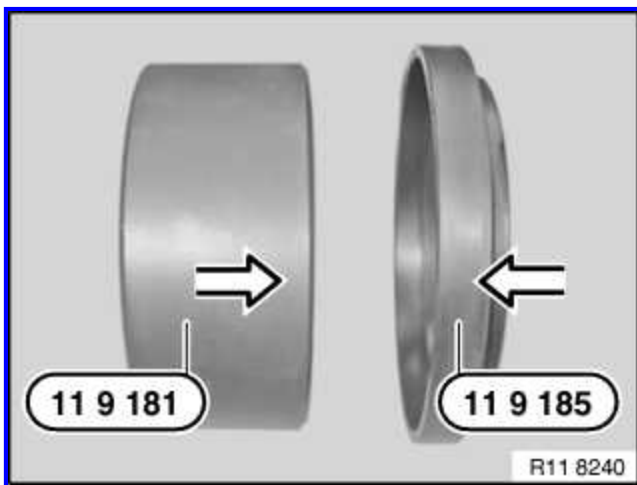
Position the radial shaft seal (1) with special tool [11 8 220](#) on the crankshaft.



Brush radial shaft seal (1) over the special tool [11 8 220](#).
Move radial shaft seal (1) parallel up against the crankcase.



Secure special tool 11 9 182 to crankshaft with special tool 11 9 184 from set of special tools [11 9 180](#).

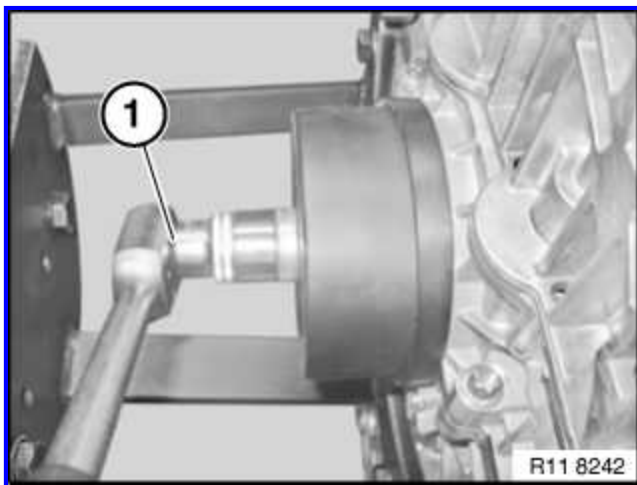
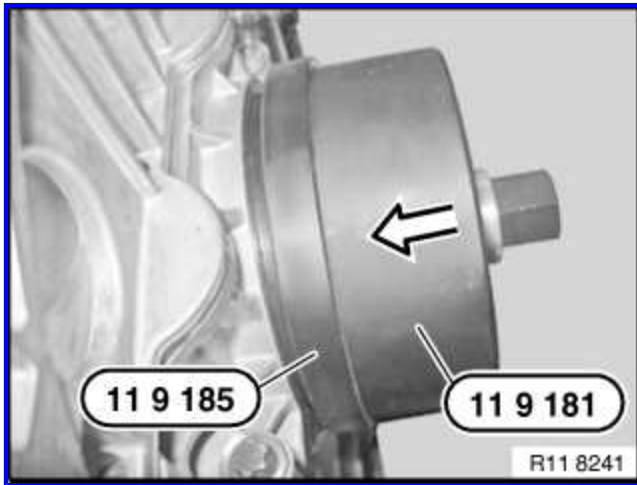


Installation note:

Prepare special tool 11 9 181 from set of special tools [11 9 180](#) for installation.

Connect special tool 11 9 185 to special tool 11 9 181 from set of special tools [11 9 180](#).

Pull in radial shaft seal with special tool 11 9 181 and 11 9 185 in conjunction with special tool 11 9 183 from set of special tools [11 9 180](#).



Screw on radial shaft seal with special tool [11 9 183](#) to limit position.



Remove all special tools.
Assemble engine.