

23 12 061

Replacing radial shaft seal for output flange (GS6-45BZ/DZ)**Special tools required:**

- [23 0 020](#)
- [24 2 380](#)
- [33 1 150](#)
- [33 1 154](#)
- [23 3 210](#)
- [23 3 230](#)

**Important!**

After completion of repair work, check transmission oil level.

Use only approved [transmission oil](#).

Failure to comply with this instruction will result in serious damage to the transmission.

**Necessary preliminary tasks:**

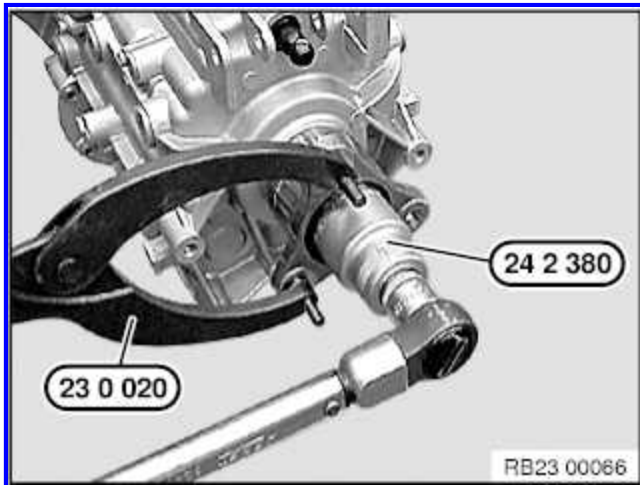
- Remove [transmission cross member](#).
- Partially remove [propeller shaft](#).
 - Disconnect propeller shaft at transmission.
 - Release centre mount.
 - Tie up propeller shaft to underbody.

Note:

Bending the propeller shaft by an excessive angle can cause premature damage to the joint/propeller shaft!

Brace output flange with special tool [23 0 020](#).

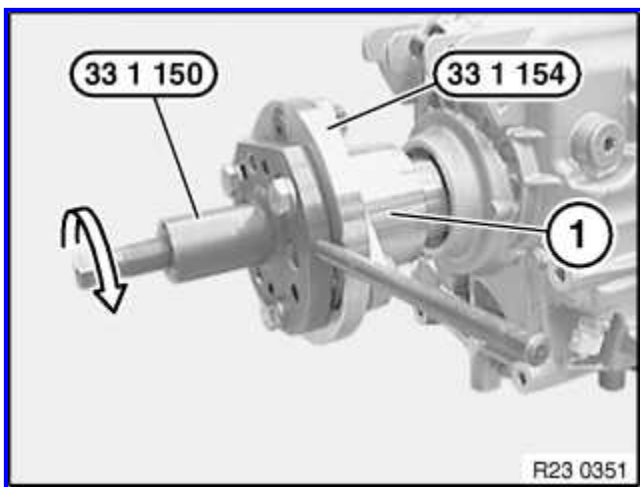
Undo collar nuts with special tool [24 2 380](#).

**Important!**

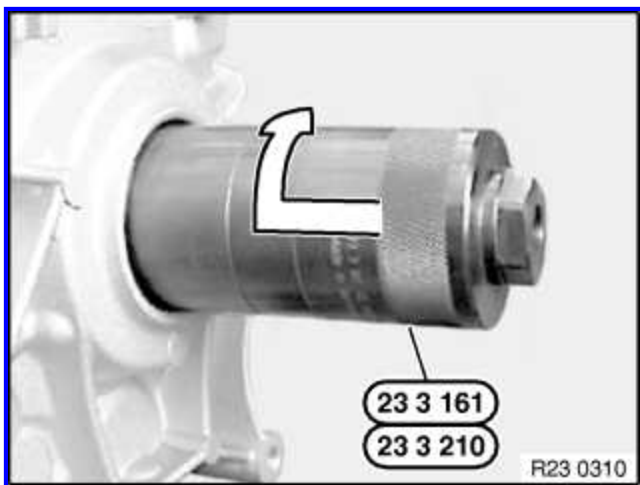
Do not drive on flange.

Secure collar nut with Loctite 243.

- Loctite 243: BMW Parts Department.
- Tightening torque: [23 21 1AZ](#).



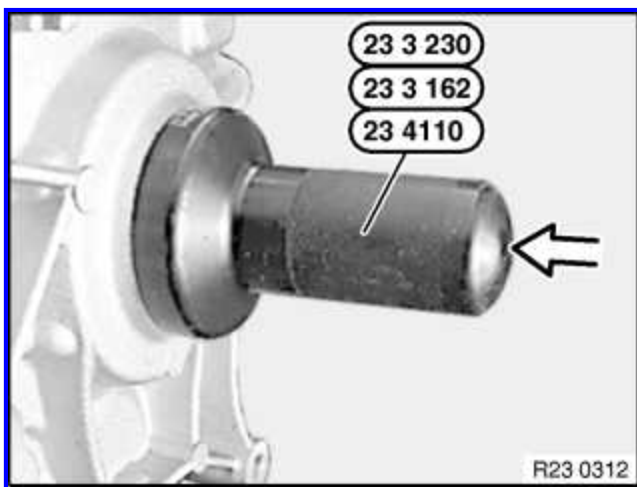
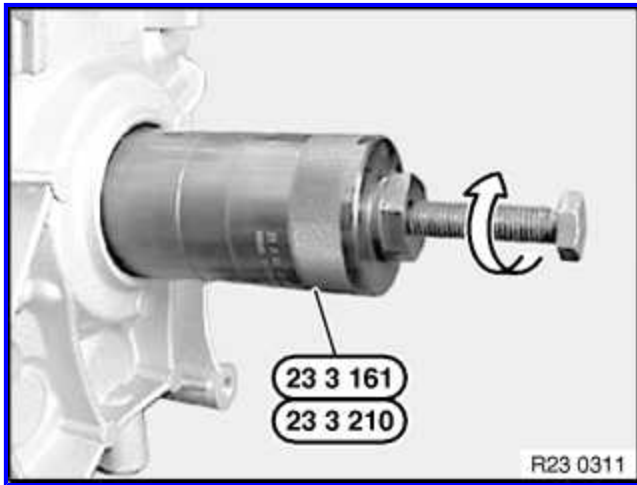
Detach output flange (1) with special tool [33 1 150](#) and adapter plate [33 1 154](#) from output shaft.



Release screw on special tool [23 3 210](#).

[23 3 210](#) Push special tool over output shaft and screw firmly into sealing ring.

Insert screw into special tool [23 3 210](#) again and continue turning until sealing ring is pulled out of transmission housing.
If necessary, remove ring spring of sealing ring.



Installation note:

Coat sealing lips of new radial shaft seal with transmission oil.

Drive radial shaft seal fully home using special tool [23 3 230](#) and plastic hammer.