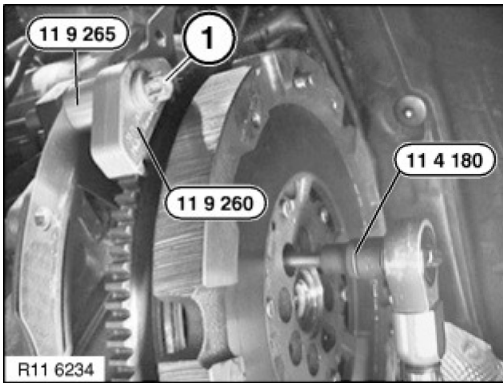


**Special tools required:**

- [11 4 180](#)
- [11 9 260](#)
- [11 9 265](#)

**Necessary preliminary tasks:**

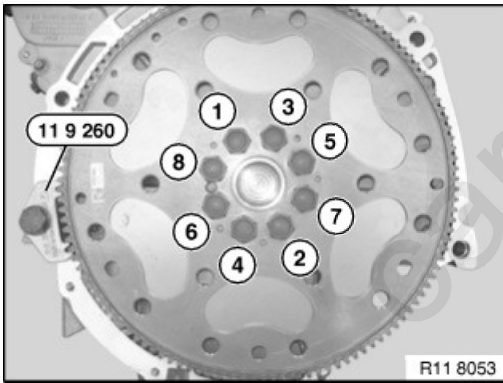
- Remove [transmission](#).

**Manual transmission:**

Secure flywheel with transmission bolt (1) and special tool [11 9 260](#) / [11 9 265](#).

Release flywheel studs with special tool [11 4 180](#) /

Tightening torque: [11 22 2AZ](#).

**Automatic transmission:**

Secure flywheel with special tool [11 9 260](#).

Unfasten flywheel studs.

Installation note:

Replace screws.

Secure bolts in sequence 1 to 8.

Tightening torque: [11 22 1AZ](#).



Assemble engine.



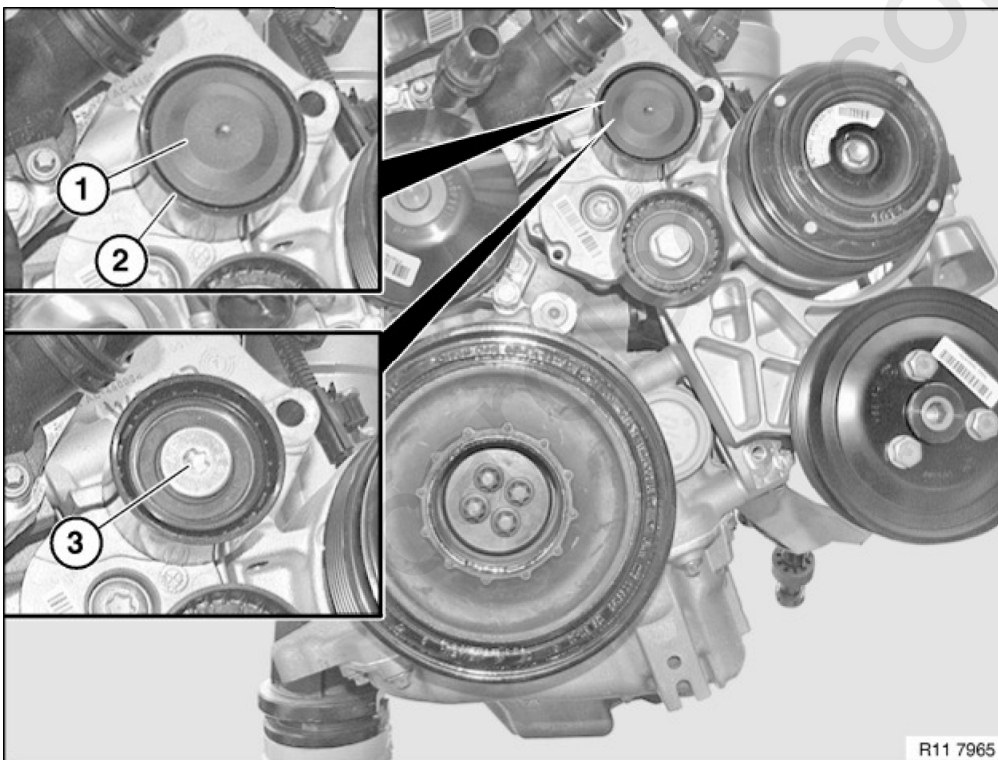
Special tools required:

- [11 6 480](#)
- [11 7 221](#)
- [11 7 222](#)
- [11 7 223](#)



Necessary preliminary tasks:

- [Remove acoustic cover.](#)
- Remove front [acoustic cover](#) (F06, F10, F11, F12, F13, F30, F31 only).
- Remove [fan cowl](#) with electric fan.
- Remove [drive belt](#) for alternator in the area of the vibration damper.



Note:

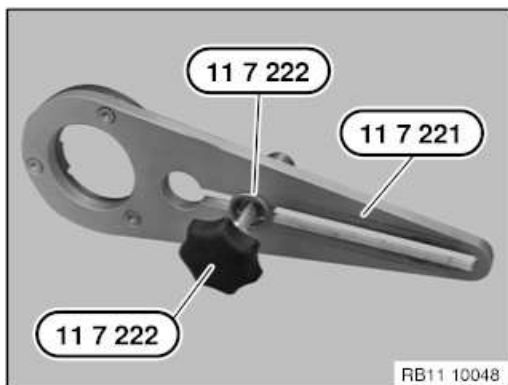
Drive belt shown removed for greater clarity.

Using a suitable tool, lever off protective cap (1) from deflection element (2).

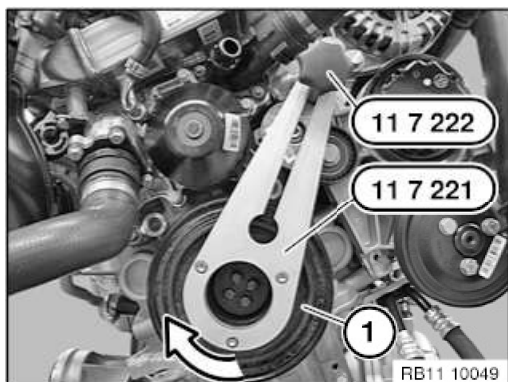
Release screw (3).

Tightening torque [11 00 4AZ](#).

Remove deflection pulley (2).



Assemble special tool [11 7 221](#) with special tool [11 7 222](#).

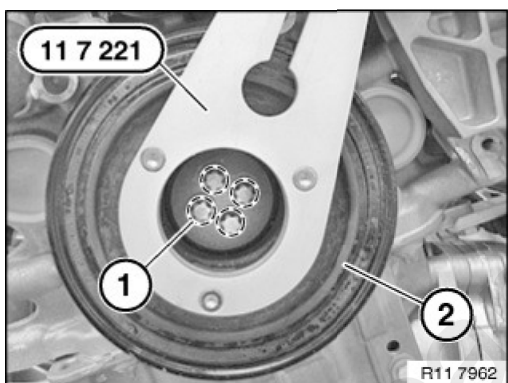


Screw special tool [11 7 221](#) with special tool [11 7 222](#) into receptacle of the guide pulley.

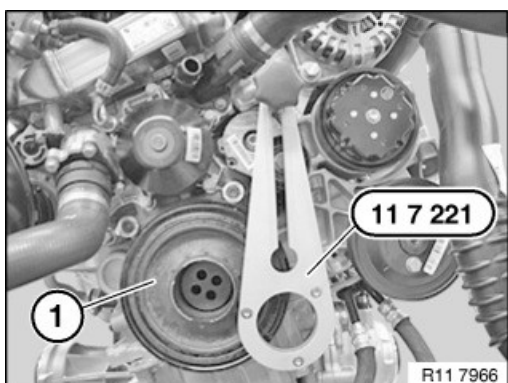
Secure special tool [11 7 221](#) vibration damper (1).

Note:

If necessary, use special tool [11 7 221](#) to turn the vibration damper in the direction of travel until the special tool [11 6 480](#) audibly clicks into place on the vibration damper.



Undo bolts (1) on vibration damper (2).



Remove special tool [11 7 221](#) in the area of the vibration damper (1).

Remove vibration damper.

Tightening torque [11 23 1AZ](#).

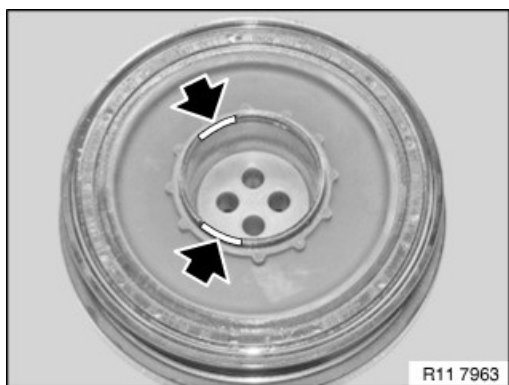
Installation note:

Replace screws.

Replace [radial shaft seal](#) at front.

Secure the special tool [11 7 221](#) again in the area of the vibration damper to tighten the screws.

Tighten screws crosswise.



Installation note:

Position vibration damper as illustrated when refitting.



Assemble engine. **Important!**

Do not run engine without ribbed drive belt.

Risk of damage! to vibration damper.

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