

**Special tools required:**

- 11 4 180
- 11 9 260
- 11 9 265

**Attention!**

Aluminium screws/bolts must be replaced each time they are **released**.

Aluminium screws/bolts are permitted with and without colour coding (blue).

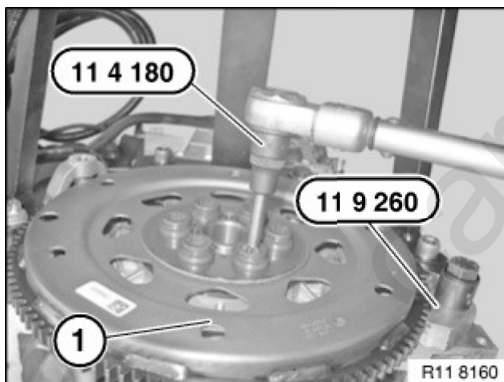
For reliable identification:

Aluminium screws/bolts are **not magnetic**.

Joining torque and angle of rotation must be observed without fail (**risk of damage**).

**Necessary preliminary work:**

- Remove transmission.
- Remove clutch.

**Automatic transmission:**

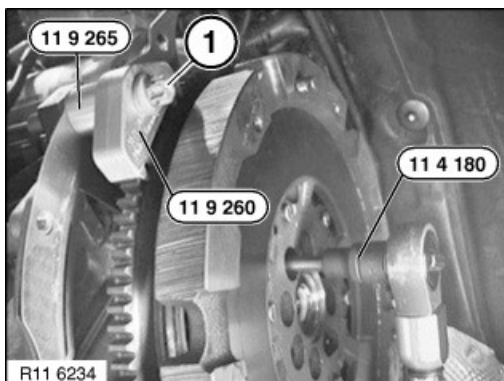
Secure flywheel (1) with special tool 11 9 260 .

Unfasten flywheel bolts.

Tightening torque 11 22 1AZ.

Installation note:

Flywheel (1) is secured with an dowel pin.

**Manual gearbox:**

Fasten dual-mass flywheel with special tool 11 9 260 and 11 9 265 .

Release flywheel bolts with special tool 11 4 180 /

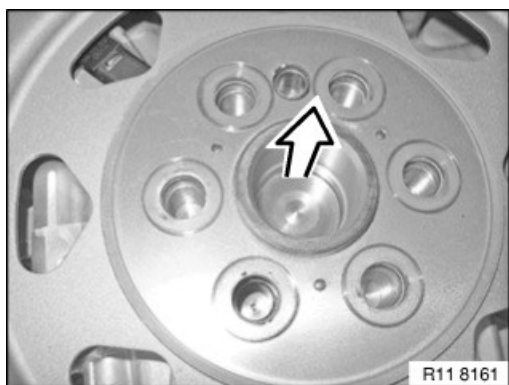
Tightening torque 11 22 2AZ.

Installation note:

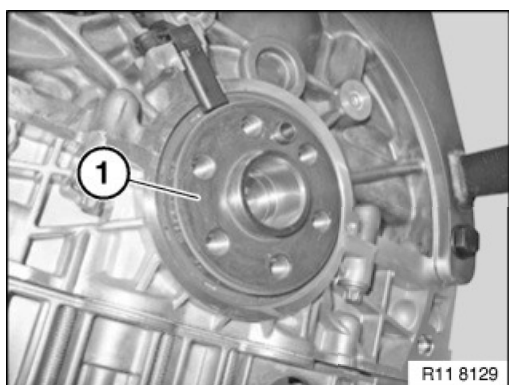
Renew flywheel bolts.

Clean all threads for flywheel bolts in crankshaft.





Installation note:
Pay attention to dowel pin.



Installation note:
Ensure installed position of magnet wheel is correct.



Assemble engine.

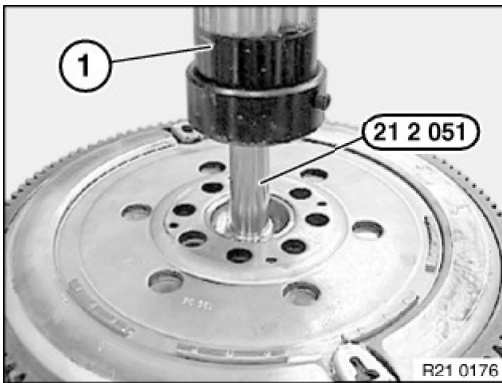


**Special tools required:**

- 21 2 051
- 21 2 052



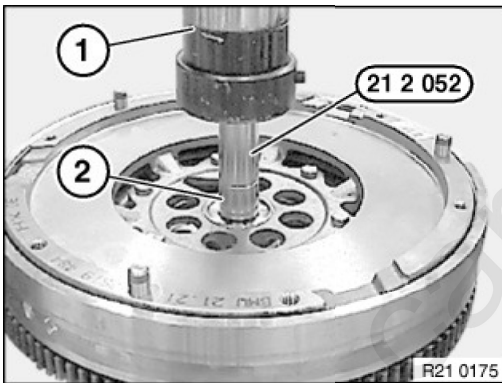
Note:
Flywheel removed!



Using hydraulic press (1) and special tool 21 2 051, press roller bearing out of dual-mass flywheel downwards on engine side. **Important!**

Risk of damage:

Roller bearing must not be driven out.



Push roller bearing (2) onto special tool 21 2 052.

Using hydraulic press (1), press roller bearing into dual-mass flywheel to limit position on clutch side.

Important!

Risk of damage:

Observe press-in instruction:

- Roller bearing must not be driven in.
- Roller bearing mounting force/travel monitored:
Min. 2000 N 1 mm before end of pressing in.
Max. 15,000 N during entire press-in procedure.

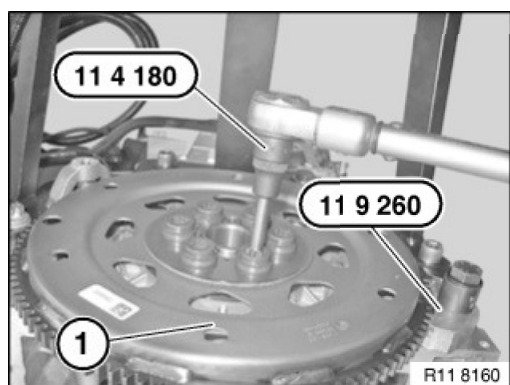


**Special tools required:**

- 11 8 180
- 11 8 660
- 11 9 260

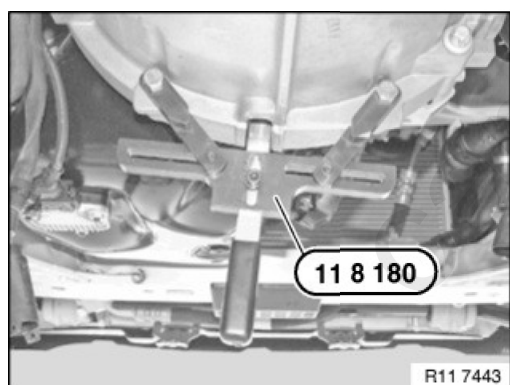
**Necessary preliminary tasks:**

- Remove underbody protection
- Remove drive belt.

**Note:**

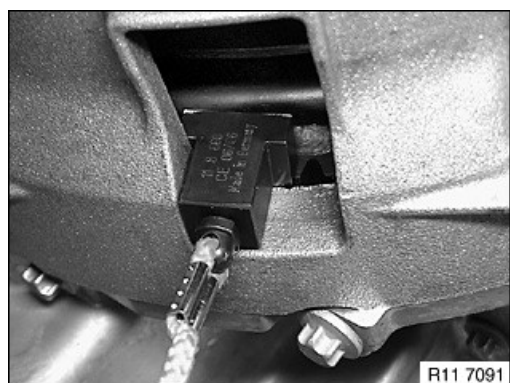
Gearbox removed:

Block crankshaft with special tool 11 9 260 .*Note:*
Picture of flywheel removal.

**Note:**

Gearbox installed with manual gearbox:

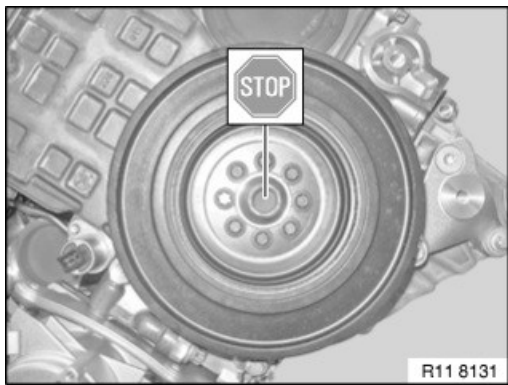
Block crankshaft with special tool 11 8 180 .

**Note:**

Gearbox installed with automatic transmission:

Block crankshaft with special tool 11 8 660 .

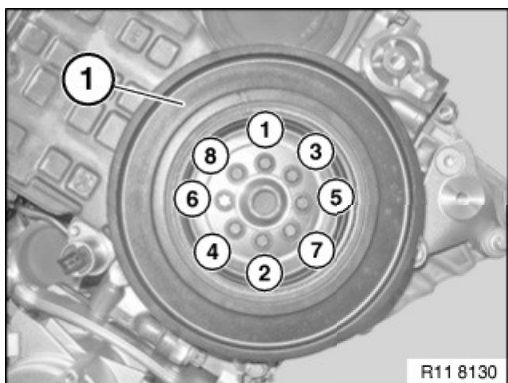




Important!

Do not release central bolt.

If the central bolt is accidentally loosened, the timing must be readjusted.



Release screws (1 to 8).

Remove vibration damper (1).

Screws on vibration damper

Tightening torque 11 23 1AZ.



Assemble engine.

