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Special tools required:

- 11 8 190
- 11 8 200
- 11 8 210



Necessary preliminary tasks:

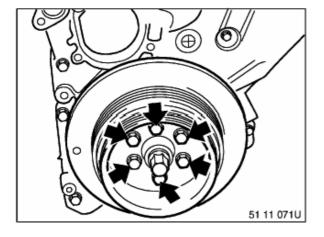
- Unscrew and remove splash guard.
- Remove fan impeller with fan clutch and fan cowl
- E83/E85/E60: Remove fan cowl with electric fan
- Remove A/C compressor drive belt
- Remove alternator drive belt



Important!

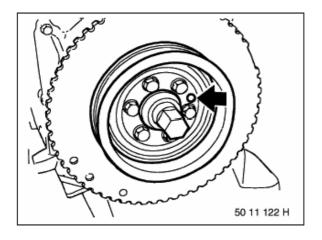
Risk of damage.

Protect cooler against damage.



Version 1

Vibration damper and hub for vibration damper are two parts: Unscrew vibration damper bolts and take off vibration damper.



Version 1

Vibration damper and hub for vibration damper are two parts:

Installation:

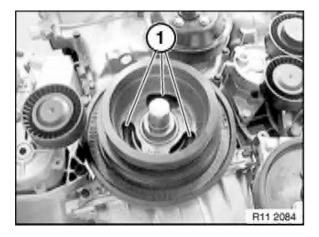
Align locating bore in vibration damper to dowel pin. Install and tighten down screws.

Tightening torque 11 23 3AZ .



Version 2

Vibration damper and hub for vibration damper are one part: Screw special tool 11 8 190 to special tool 11 8 200 .



Version 2

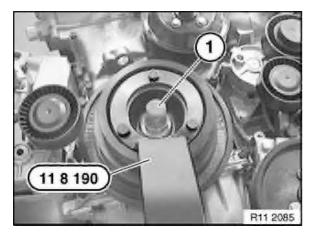
Note:

Special tool 11 8 200 must snap into place in openings (1).



Version 2

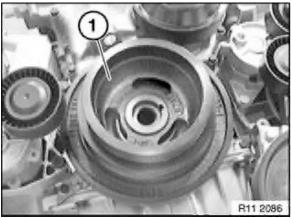
When releasing and tightening down central bolt, grip special tool 11 8 190 with assistance of a second person.



Version 2

Insert special tool 11 8 200 in openings on vibration damper and turn counterclockwise so that counter-supports snap into place on vibration damper.

Release central screw (1).

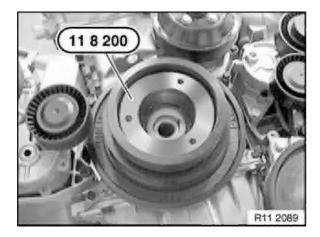


Version 2

Feed out special tools 11 8 190 / 11 8 200 .

Remove central screw and washer.

Carefully detach vibration damper (1) by hand.

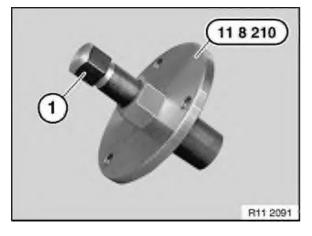


Version 2

Note:

If vibration damper cannot be detache by hand:

Insert special tool 11 8 200 in openings on vibration damper and turn clockwise so that counter-supports snap into place on vibration damper.

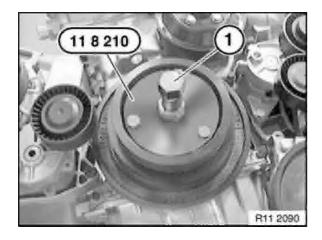


Version 2

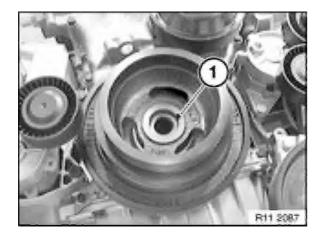
Screw out spindle (1) on special tool 11 8 210 as far as possible.

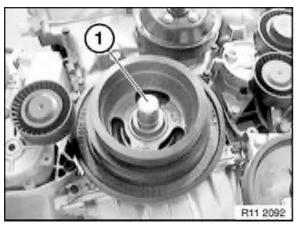
Z3 only:

Screw in spindle (1) on special tool 11 8 210 approx. 15 mm and screw out again only after installation between special tool 11 8 200 and cooler.



1) R11 2088





Version 2

Important!

Risk of damage.

Protect cooler against damage.

Carefully install special tool 11 8 210 .

Screw special tool 11 8 210 to special tool 11 8 200 . Detach vibration damper by turning spindle (1) on special tool 11 8 210 .

Version 2

Installation:

Check featherkey (1) for damage and correct installation position.

Replace radial seal in lower timing case cover.

Version 2

Installation:

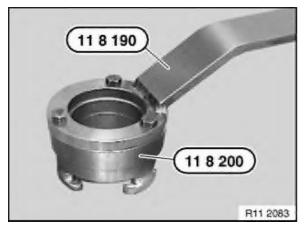
Align groove (1) in vibration damper to featherkey. Fit vibration damper.

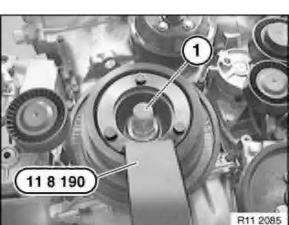
Version 2

Installation:

Replace central screw (1).

Install central screw and washer.





Version 2

Installation:

Screw special tool 11 8 190 to special tool 11 8 200 .

Version 2

Insert special tool 11 8 200 in openings on vibration damper and turn clockwise so that counter-supports snap into place on vibration damper.

Tighten down central screw (1).

Tightening torque, 11 23 2AZ .