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ENGINE AND CYLINDER BLOCK ASSEMBLY

Crankshaft seal on timing end: Removal - Refitting

10A

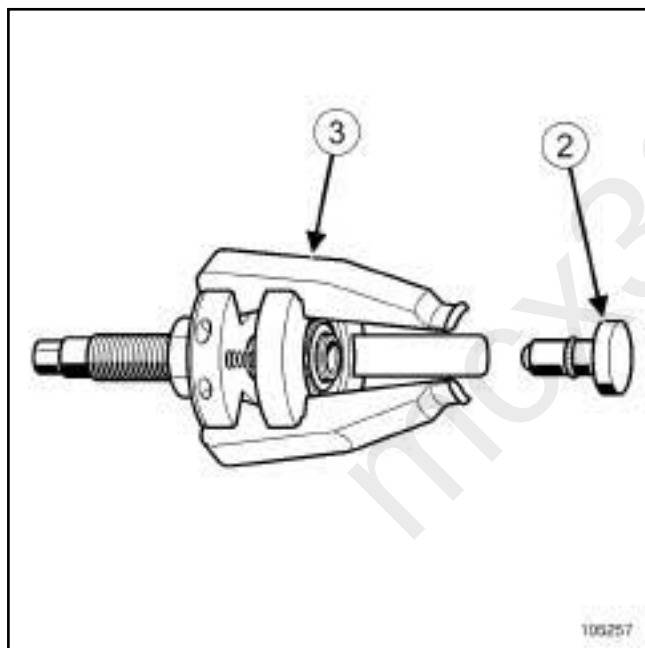
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REMOVAL

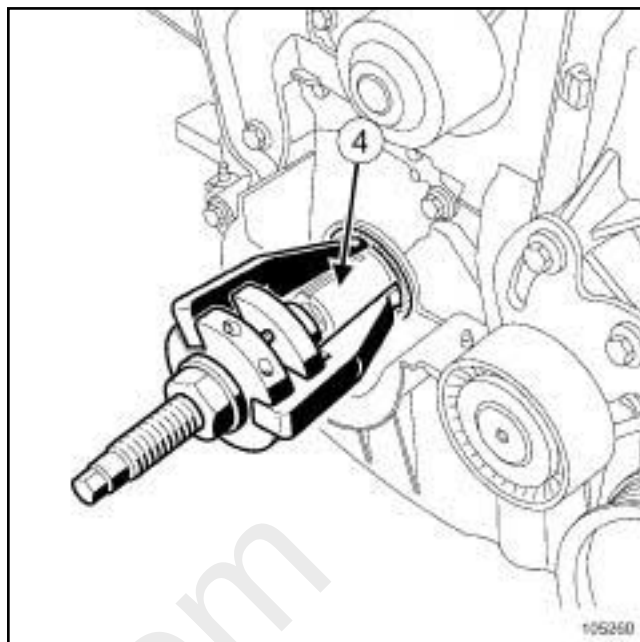
I - REMOVAL PREPARATION OPERATION

- ☐ Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (02A, Lifting equipment).
- ☐ Disconnect the battery (see **Battery: Removal - Refitting**) (80A, Battery).
- ☐ Remove:
 - the front right-hand wheel (see **Wheel: Removal - Refitting**) (35A, Wheels and tyres),
 - the timing belt (see **11A, Top and front of engine, Timing belt: Removal - Refitting**, page 11A-17) ,
 - the timing belt sprocket (see **11A, Top and front of engine, Timing belt: Removal - Refitting**, page 11A-17) .

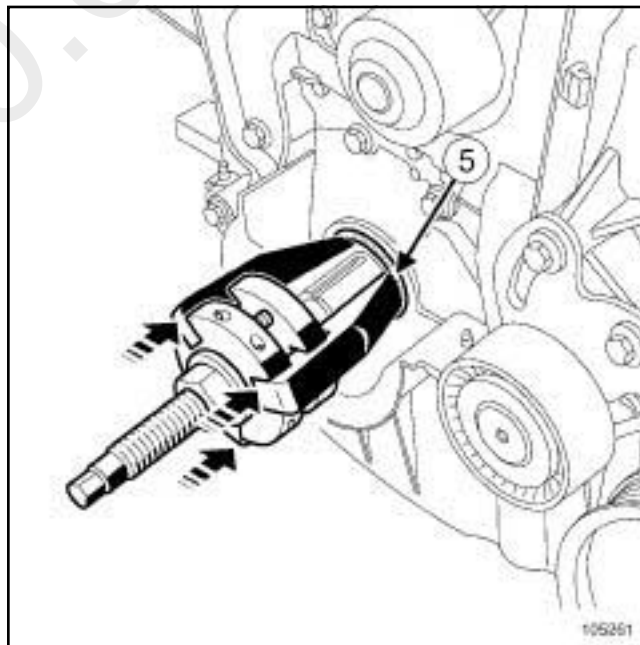
II - REMOVAL OPERATION



- ☐ Fit the end piece (2) onto the tool (3) .



- ☐ Position the jaws of the tool onto the crankshaft nose (4) .



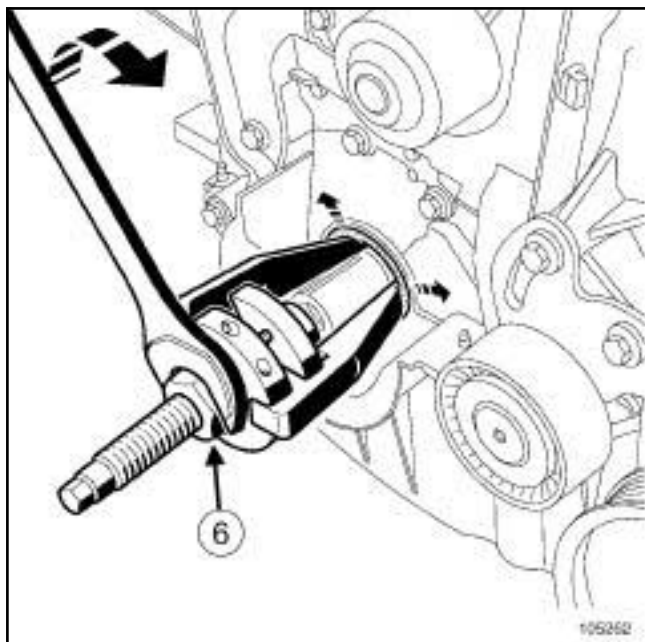
- ☐ Push on the tool until contact is made between the ends (5) of the jaws and the crankshaft seal.

ENGINE AND CYLINDER BLOCK ASSEMBLY

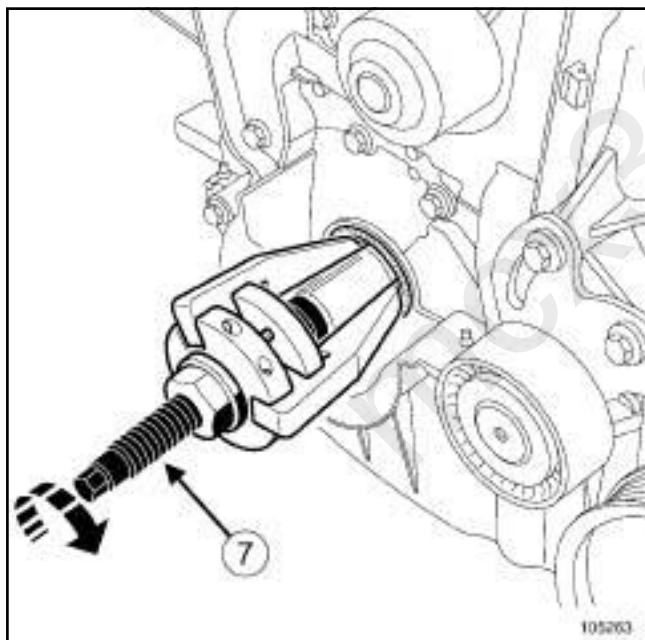
Crankshaft seal on timing end: Removal - Refitting

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- ❑ Separate the jaws by screwing the nut of the tool (6) .



- ❑ Screw down the threaded rod (7) of the.
- ❑ Refit the crankshaft seal at the timing end using the tool.

REFITTING

I - REFITTING PREPARATION OPERATION

- ❑ parts always to be replaced: Crankshaft seal on timing end.

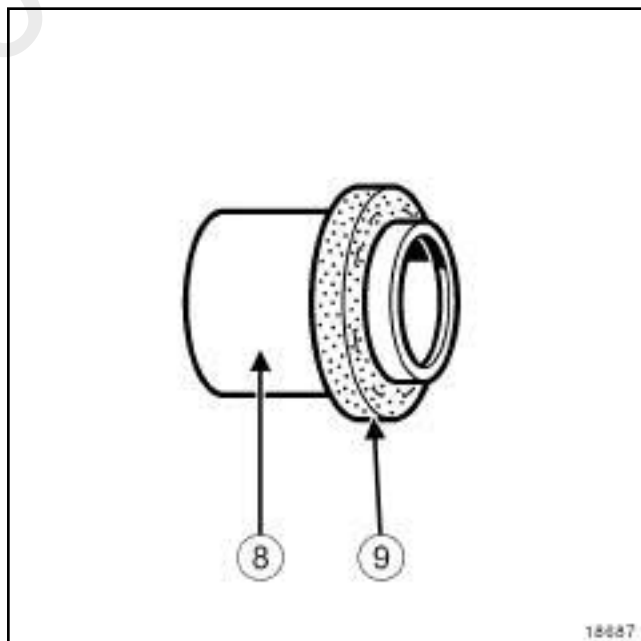
WARNING

To ensure proper sealing, the gasket surfaces must be clean, dry and not greasy (avoid any finger marks).

- ❑ Use **SURFACE CLEANER** (see **Vehicle: Parts and consumables for the repair**) (04B, Consumables - Products) to clean and degrease:

- the crankshaft seal mating face,
- the crankshaft seal housing in the crankshaft closure panel.

II - REFITTING OPERATION



❑

Note:

This type of seal is extremely fragile.

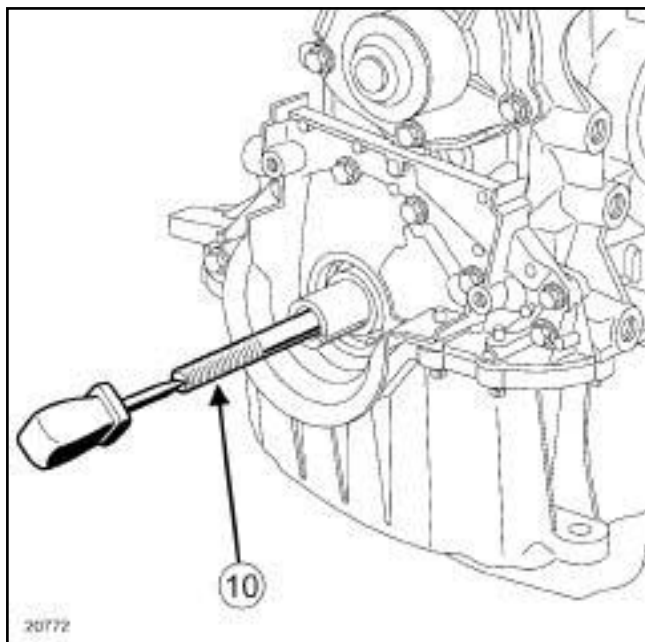
Only touch the protective part (8) when handling the gasket. It is strictly forbidden to touch the seal (9) ; this is to prevent any oil leaks once the oil seal is fitted to the engine.

ENGINE AND CYLINDER BLOCK ASSEMBLY

Crankshaft seal on timing end: Removal - Refitting

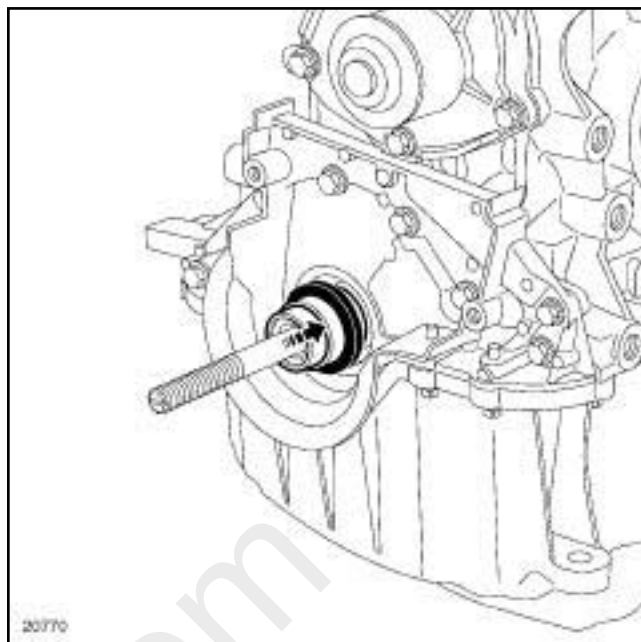
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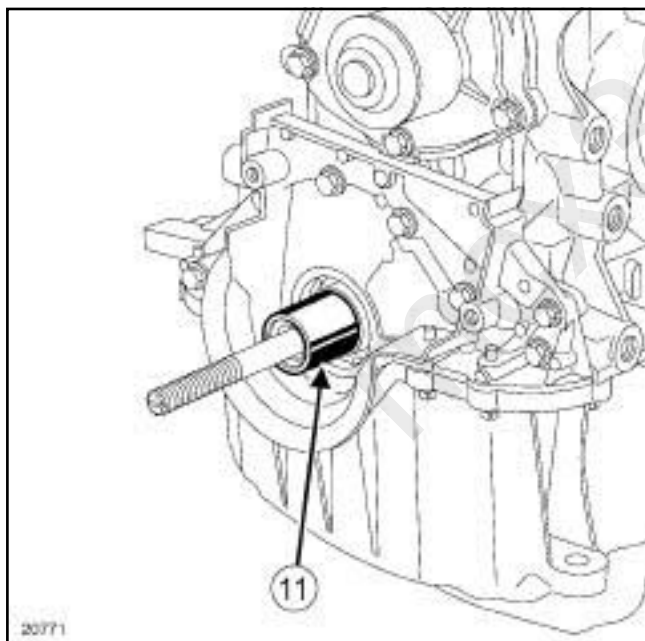
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- ❑ Screw the threaded rod (10) of the into the crankshaft.



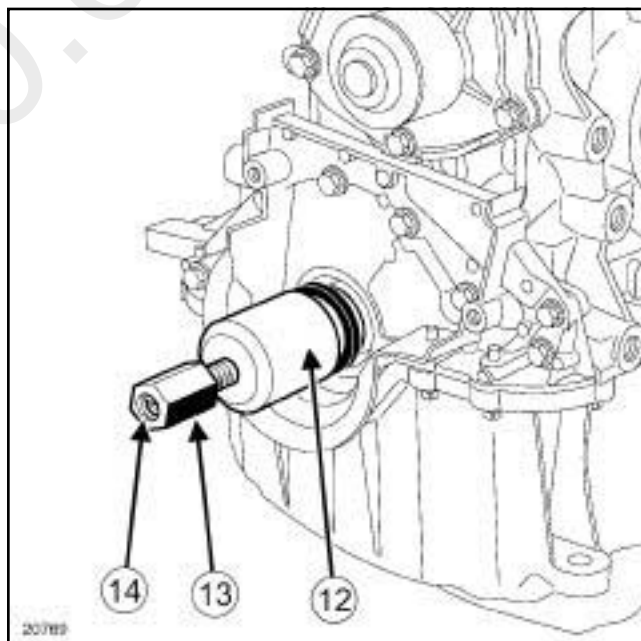
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- ❑ Fit the protector with the new seal in place on the spacer, taking care not to touch the seal.



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- ❑ On the crankshaft, fit the spacer (11) of the.



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- ❑ Fit the cover (12) and nut (13) (with the thread (14) of the nut towards the outside of the engine) of the.