

ENGINE AND CYLINDER BLOCK ASSEMBLY
Crankshaft seal on timing end: Removal - Refitting

10A

K4M



mcx30.com

ENGINE AND CYLINDER BLOCK ASSEMBLY

Crankshaft seal, gearbox end: Removal - Refitting

10A

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Special tooling required

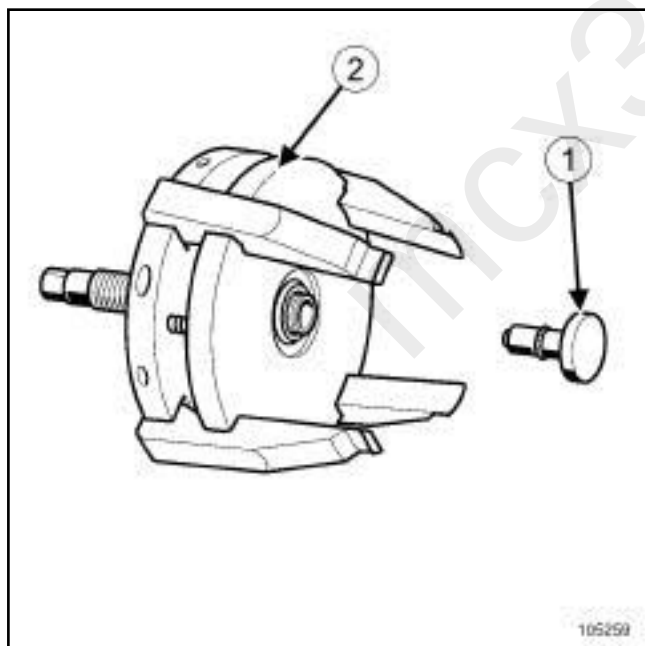
Mot. 1579	Lip seal extractor (shaft diameter 80 mm to 98 mm).
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REMOVAL

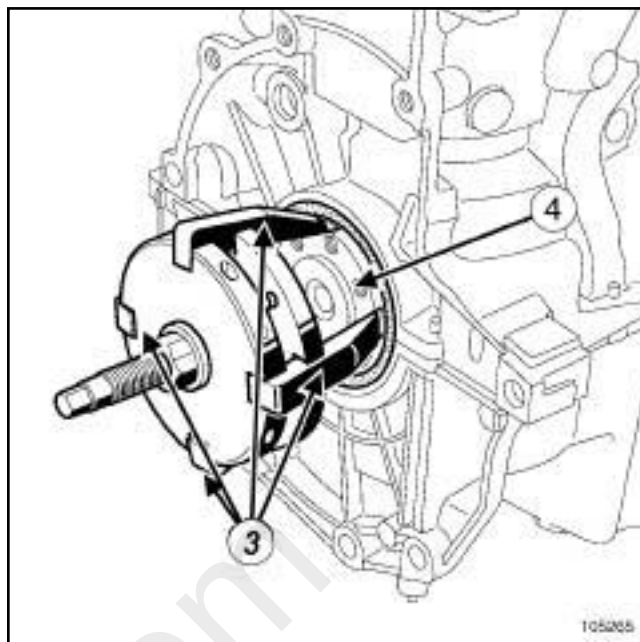
I - REMOVAL PREPARATION OPERATION

- ☐ Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (MR 392, 02A, Lifting equipment).
- ☐ Remove:
 - the gearbox (see **Manual gearbox: Removal - Refitting**) (MR 392, 21A, Manual gearbox),
 - the clutch pressure plate (see **Pressure plate - Disc: Removal - Refitting**) (MR 392, 20A, Clutch),
 - the flywheel (see **10A, Engine and cylinder block assembly, Flywheel: Removal - Refitting**, page **10A-238**) (MR 392, 20A, Clutch).

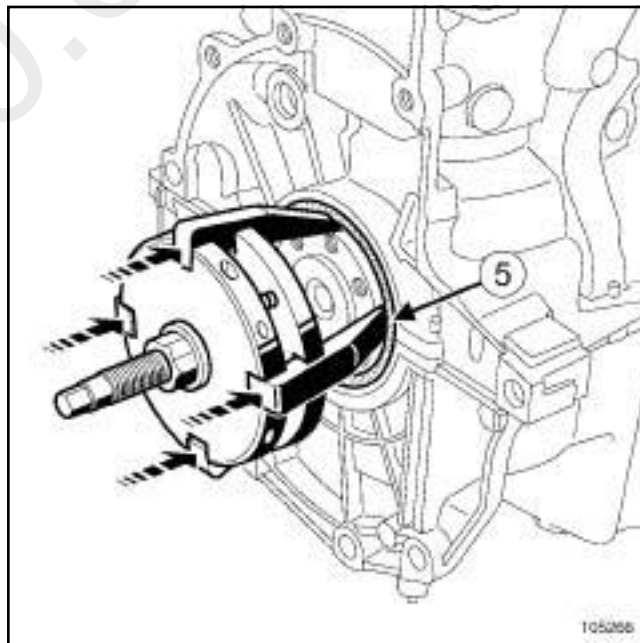
II - OPERATION FOR REMOVAL OF PART CONCERNED



- ☐ Fit the end piece (1) of the (Mot. 1579) (2) .

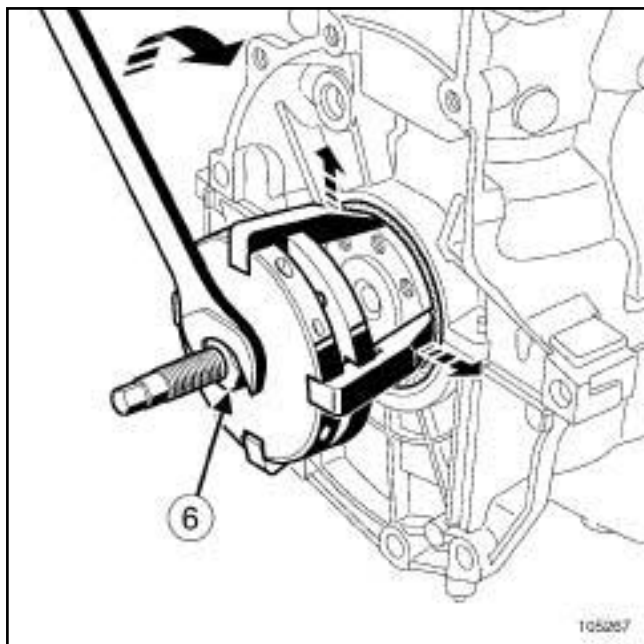


- ☐ Position the jaws (3) of the (Mot. 1579) on the crankshaft (4) .



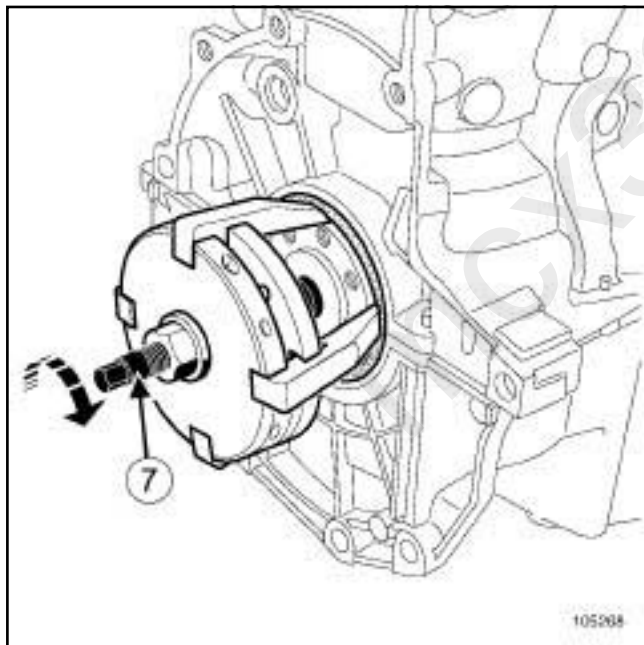
- ☐ Push the tool until contact is made between the ends (5) of the jaws and the crankshaft seal.

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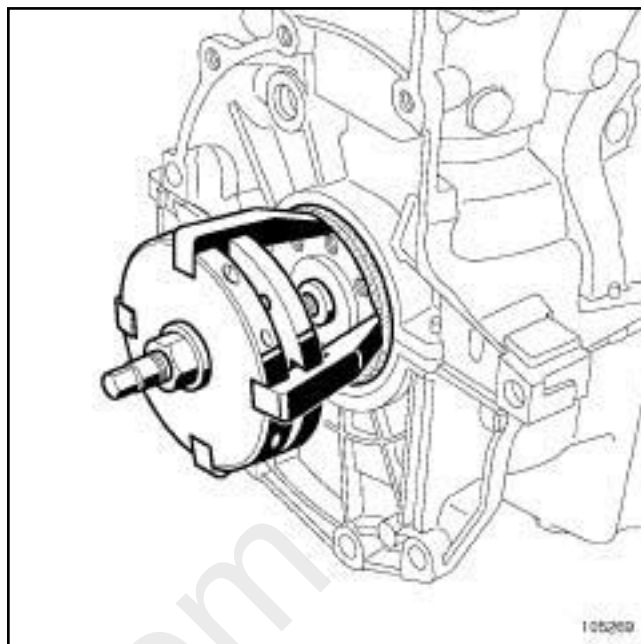
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- ❑ Move the jaws away by tightening the bolt (6) using an open-jawed spanner.



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- ❑ Screw down the threaded rod of the (7) (Mot. 1579).



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- ❑ Remove the crankshaft seal using the (Mot. 1579).

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

- ❑ Refit the crankshaft seal on the gearbox side (see **Cylinder block: Rebuilding**) (Technical Note 6006A, 10A, Engine and peripherals).

II - FINAL OPERATION.

- ❑ Refit:
 - the flywheel (see **10A, Engine and cylinder block assembly, Flywheel: Removal - Refitting**, page **10A-238**) (MR 392, 20A, Clutch),
 - the clutch pressure plate (see **Pressure plate - Disc: Removal - Refitting**) (MR 392, 20A, Clutch),
 - the gearbox (see **Manual gearbox: Removal - Refitting**) (MR 392, 21A, Manual gearbox).

ENGINE AND CYLINDER BLOCK ASSEMBLY

Crankshaft seal, gearbox end: Removal - Refitting

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Special tooling required

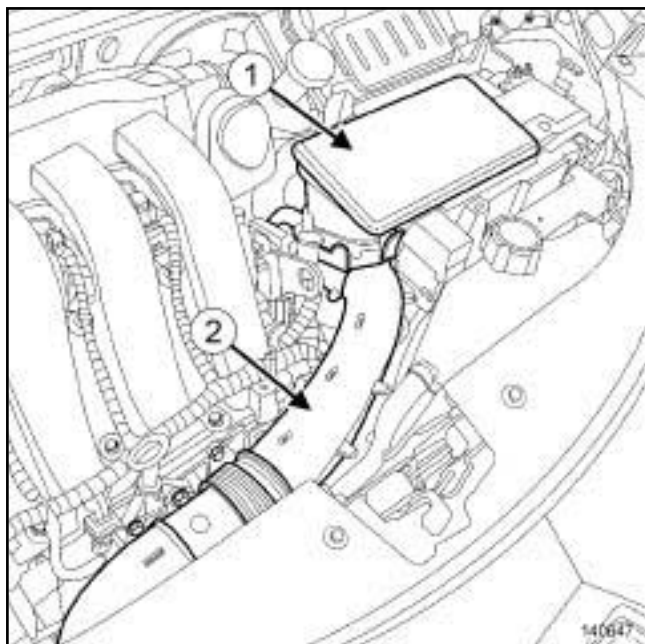
Mot. 1129-01	Tool for fitting the crankshaft seal, flywheel end (80 x 100 x 8 seal).
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REMOVAL

I - REMOVAL PREPARATION OPERATION

- ☐ Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) (02A, Lifting equipment).

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☐ Remove:

- the air resonator (1) ,
- the air filter unit air inlet pipe (2) ,
- the engine undertray bolts,
- the engine undertray,
- the battery (see **Battery: Removal - Refitting**) (80A, Battery),
- the battery tray (see **Battery tray: Removal - Refitting**) (80A, Battery),
- the air filter unit (see **12A, Fuel mixture, Air filter unit: Removal - Refitting**, page 12A-17) ,
- the windscreen wiper arms (see **Windscreen wiper arm: Removal - Refitting**) (85A, Wiping - Washing),
- the scuttle panel grille (see **Scuttle panel grille: Removal - Refitting**) (56A, Exterior equipment),
- the scoop under the scuttle panel grille (see **Scoop under the scuttle panel grille: Removal - Refitting**) (56A, Exterior equipment),
- the front wheels (see **Wheel: Removal - Refitting**) (35A, Wheels and tyres),
- the front wheel arch liners (see **Front wheel arch liner: Removal - Refitting**) (55A, Exterior protection),
- the front bumper (see **Front bumper: Removal - Refitting**) (55A, Exterior protection),
- the radiator mounting cross member (see **Radiator mounting cross member: Removal - Refitting**)

(41A, Front lower structure),

- the starter (see **16A, Starting - Charging, Starter: Removal - Refitting**, page 16A-23) ,
- the lower engine tie-bar (see **19D, Engine mounting, Lower engine tie-bar: Removal - Refitting**, page 19D-13) ,
- the left-hand suspended engine mounting (see **19D, Engine mounting, Left-hand suspended engine mounting: Removal - Refitting**, page 19D-34) .

☐ Drain the gearbox (see **Manual gearbox oils: Draining - Filling**) (21A, Manual gearbox).

☐ Remove:

- the front left-hand wheel driveshaft (see **Front left-hand driveshaft: Removal - Refitting**) (29A, Driveshafts),
- the front right-hand wheel driveshaft (see **Front right-hand driveshaft: Removal - Refitting**) (29A, Driveshafts),
- the gearbox (see **Manual gearbox: Removal - Refitting**) (21A, Manual gearbox),
- the « pressure plate - disc » assembly (see **Pressure plate - Disc: Removal - Refitting**) (20A, Clutch),
- the flywheel (see **10A, Engine and cylinder block assembly, Flywheel: Removal - Refitting**, page 10A-238) .

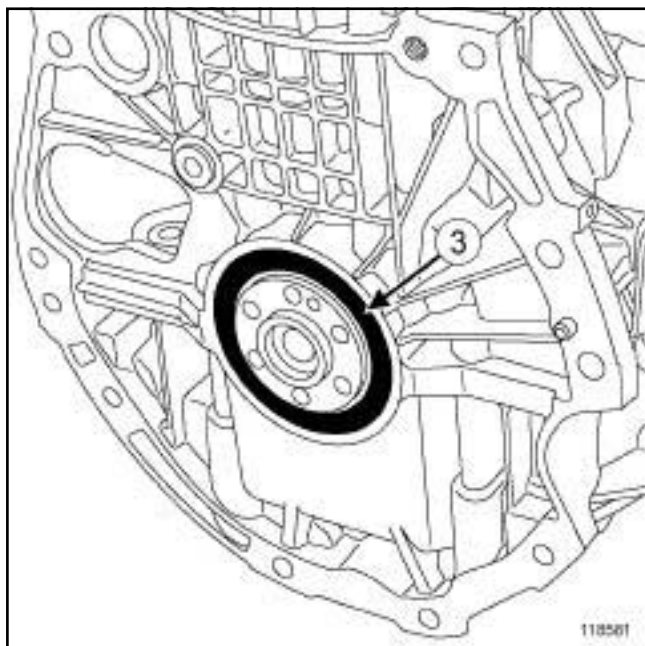
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II - OPERATION FOR REMOVAL OF PART CONCERNED



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- ❑ Remove the crankshaft seal (3) using a screwdriver.

Note:

Take care not to damage the crankshaft mating face.

REFITTING

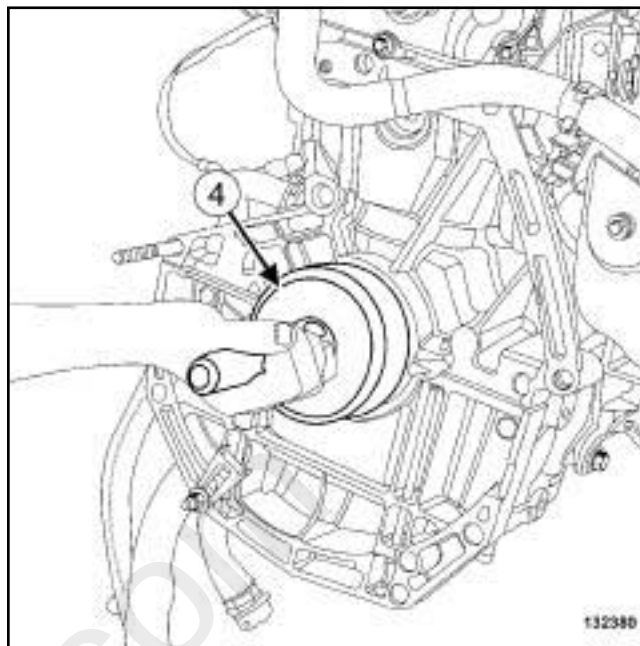
I - REFITTING PREPARATION OPERATION

- ❑ parts always to be replaced: Crankshaft seal on gearbox end (10,03,03,05).
- ❑ Use **SURFACE CLEANER** (see **Vehicle: Parts and consumables for the repair**) (04B, Consumables - Products) to clean and degrease:
 - the crankshaft seal mating face,
 - the seal housing on the cylinder block.

WARNING

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

II - REFITTING OPERATION FOR PART CONCERNED



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- ❑ Refit a new crankshaft seal using the (**Mot. 1129-01**) (4) .

III - FINAL OPERATION

- ❑ Refit:
 - the flywheel (see **10A, Engine and cylinder block assembly, Flywheel: Removal - Refitting**, page **10A-238**) ,
 - the « pressure plate - disc » assembly (see **Pressure plate - Disc: Removal - Refitting**) (20A, Clutch),
 - the gearbox (see **Manual gearbox: Removal - Refitting**) (21A, Manual gearbox),
 - the front right-hand wheel driveshaft (see **Front right-hand driveshaft: Removal - Refitting**) (29A, Driveshafts),
 - the front left-hand wheel driveshaft (see **Front left-hand driveshaft: Removal - Refitting**) (29A, Driveshafts).
- ❑ Fill the gearbox (see **Manual gearbox oils: Draining - Filling**) (21A, Manual gearbox).
- ❑ Refit:
 - the left-hand suspended engine mounting (see **19D, Engine mounting, Left-hand suspended engine mounting: Removal - Refitting**, page **19D-34**) ,