

1. REFITTING OPERATION



Refit (see **Engine and transmission assembly sensors: List and location of components**) :



the crankshaft position sensor,



the crankshaft position sensor bolt.



Torque tighten the crankshaft position sensor bolt (see **Engine and transmission assembly sensors: List and location of components**) .



Proceed in the reverse order to removal.



Apply the after repair procedure using the Diagnostic tool [Diagnostic tool : Use](#) :

-Computer concerned by the After repair procedure:



"Injection computer" ,

-Component affected by the After repair procedure:



"Crankshaft position sensor" .



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CRANKSHAFT SEAL ON TIMING END: REMOVAL - REFITTING



Note, one or more warnings are present in this procedure



Special tooling required

Crankshaft seal fitting tool (timing end)

Mot. 1918



parts always to be replaced:



[Crankshaft seal on timing end](#)

Locations and specifications (tightening torques, parts always be replaced, etc.)[\(see 11A, Top and front of engine, Timing assembly: Exploded view\)](#) .

REMOVAL

1. REMOVAL PREPARATION OPERATION



Position the vehicle on a two-post lift [Vehicle: Towing and lifting](#) .



Remove:



the front right-hand wheel [Front hub carrier assembly: Exploded view](#) ,



the front section of the front right-hand wheel arch liner [Exterior body front trim assembly: Exploded view](#) .



Remove [\(see 11A, Top and front of engine, Engine accessories assembly: Exploded view\)](#) :

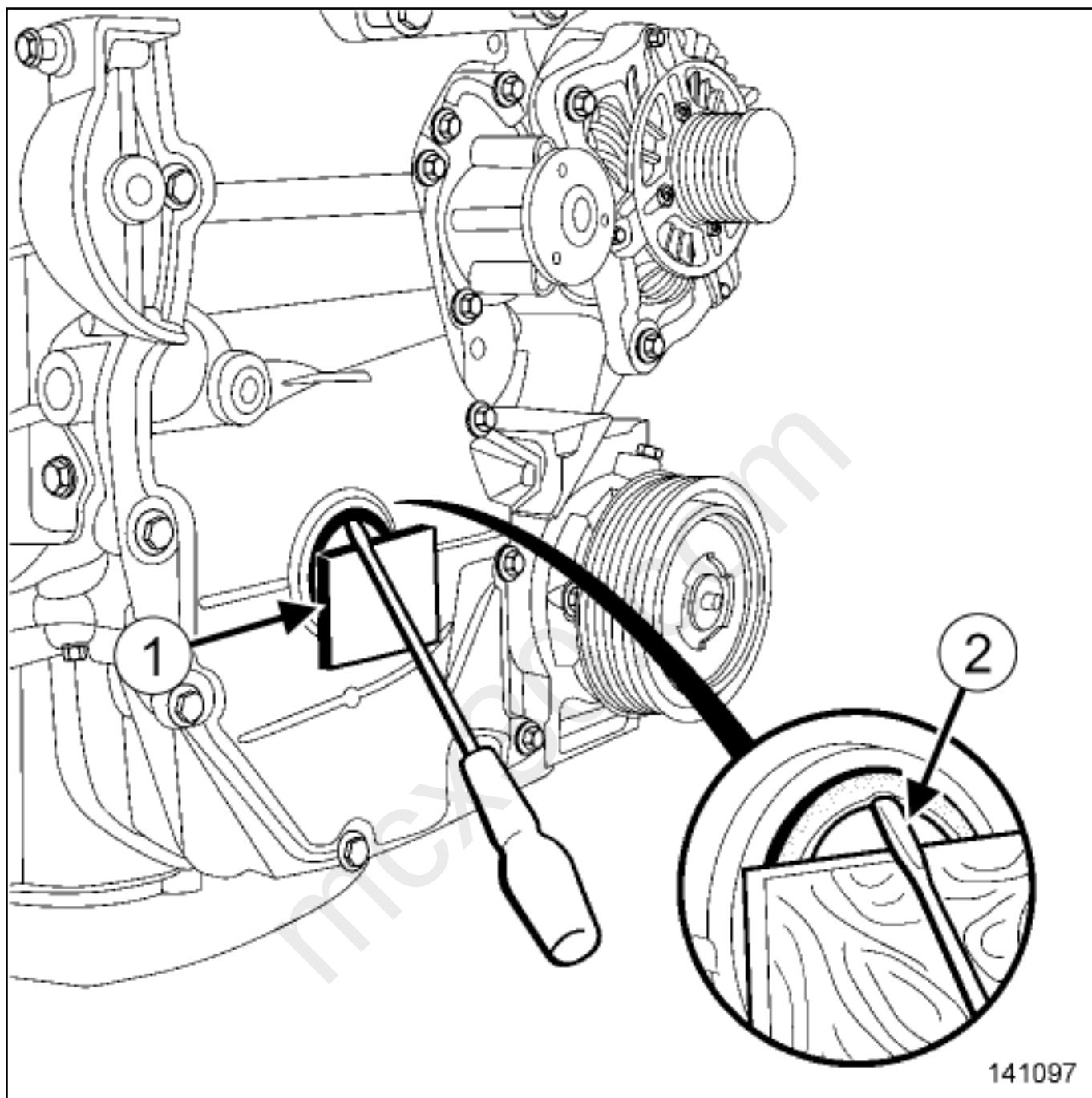


the accessories belt,



the crankshaft accessories pulley.

2. REMOVAL OPERATION



Position a shim (1) on the timing cover(see 11A, [Top and front of engine, Timing assembly: Exploded view](#)) .



Note:

Be sure to position the flat head of the screwdriver(2) behind the outer lip of the crankshaft seal.



Remove the crankshaft seal at the timing end([see 11A, Top and front of engine, Timing assembly: Exploded view](#)) using a flat-blade screwdriver while pressing on the shim.

REFITTING

1. REFITTING PREPARATION OPERATION



parts always to be replaced:

[Crankshaft seal on timing end](#)



CAUTION

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



Use surface cleaner [Vehicle: Parts and consumables for the repair](#) to clean and degrease:

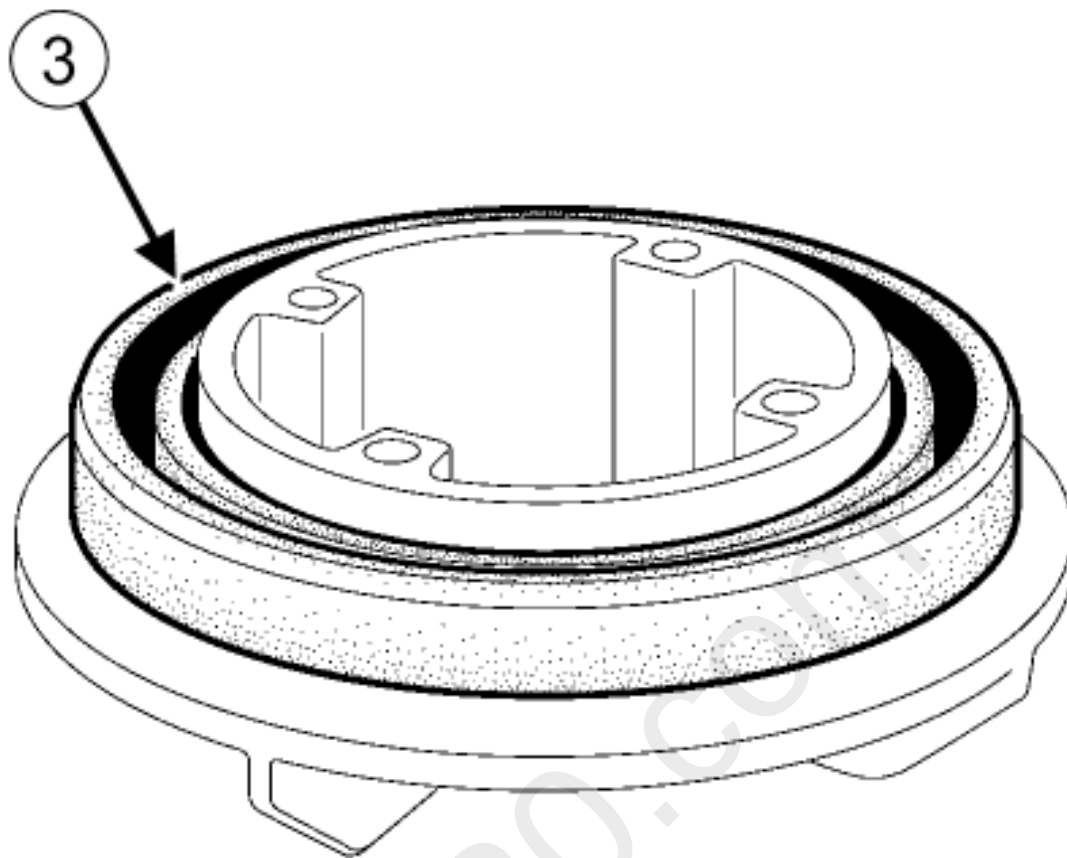


the seal mating face on the crankshaft accessories pulley,



the seal housing on the timing cover.

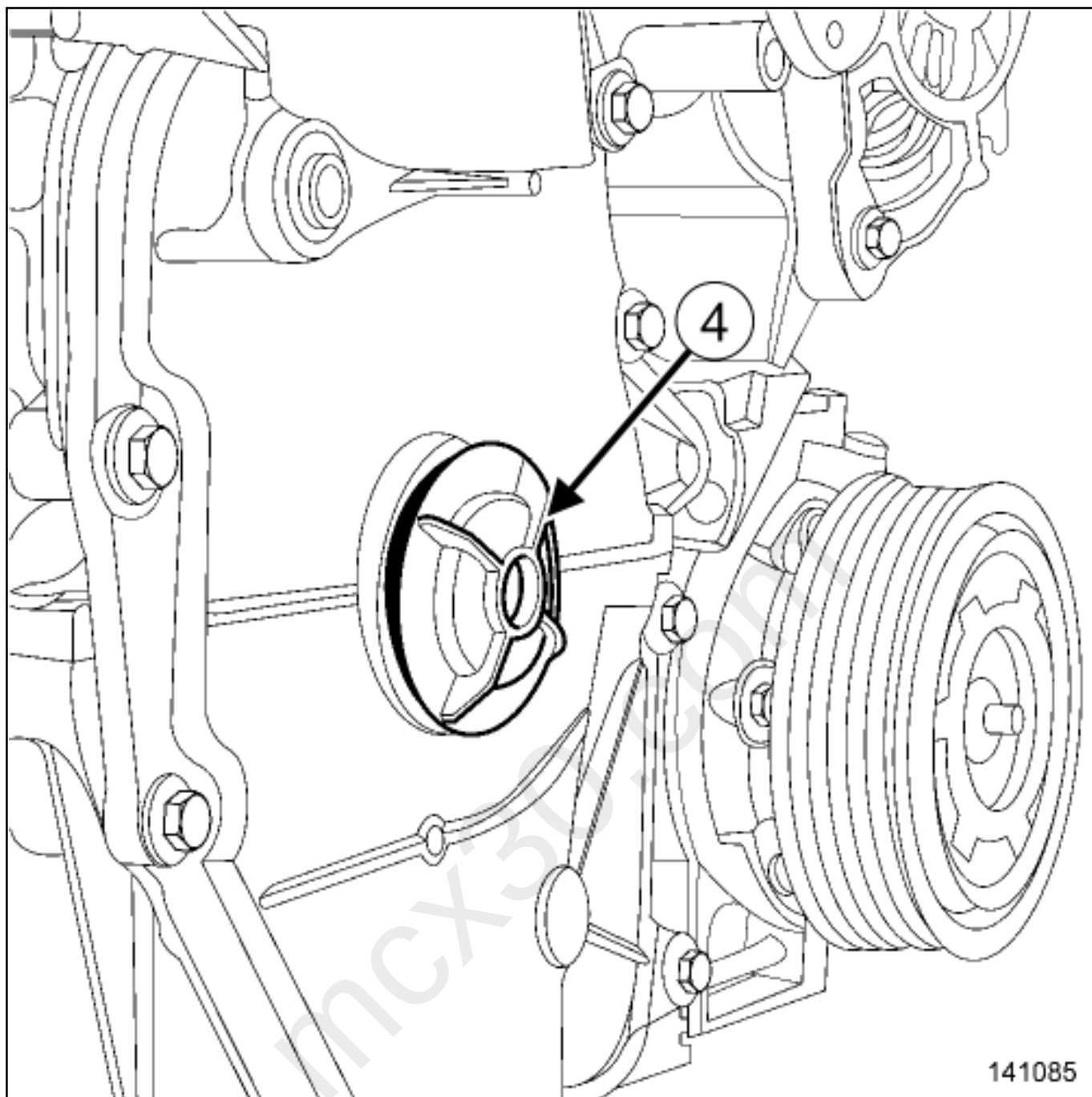
2. REFITTING OPERATION



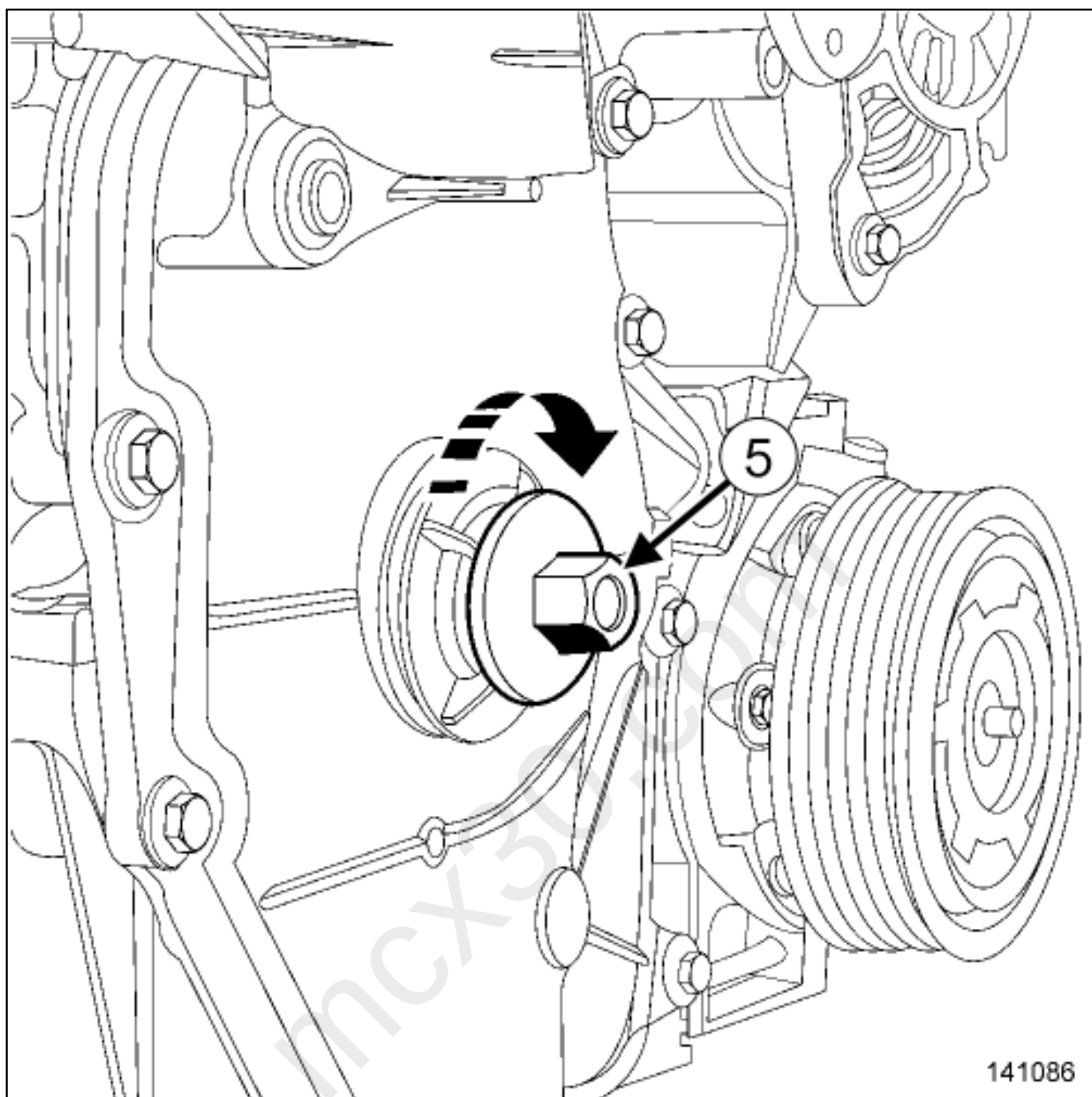
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Fit a new crankshaft seal(3) on the timing end on the toolCrankshaft seal fitting tool (timing end)
(Mot. 1918) .



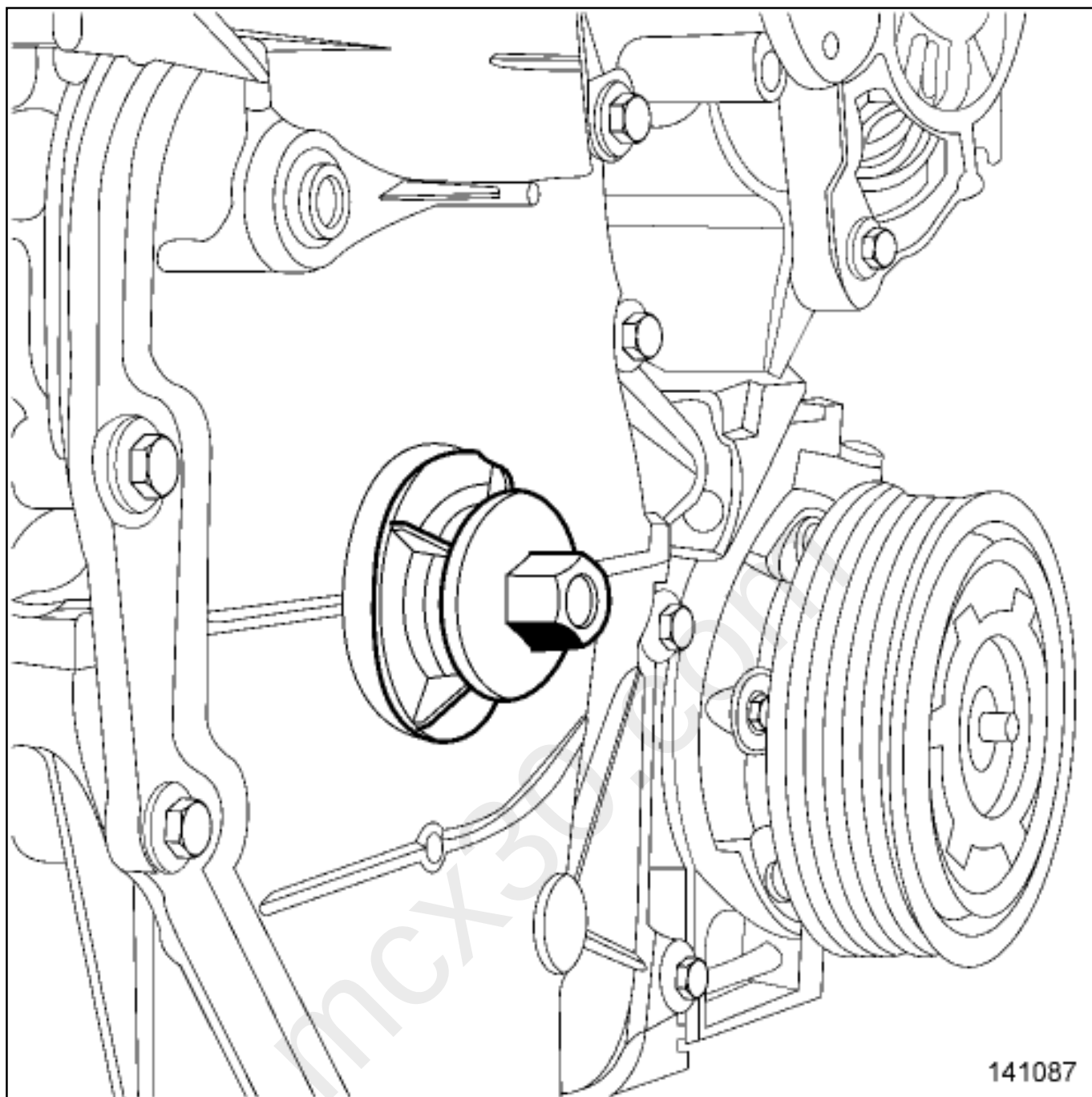
Fit the "centring device - crankshaft seal on timing end"(4) assembly on the timing cover.



Fit without tightening the crankshaft accessories pulley bolt ([see 11A, Top and front of engine, Engine accessories assembly: Exploded view](#)) (5) on the crankshaft ([see 11A, Top and front of engine, Timing assembly: Exploded view](#)) .



Tighten the crankshaft accessories pulley bolt until the tool Crankshaft seal fitting tool (timing end) ([Mot. 1918](#)) comes into contact with the timing cover.



Remove:



the crankshaft accessories pulley bolt,



the tool Crankshaft seal fitting tool (timing end) (Mot. 1918) .

3. FINAL OPERATION