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ACCESSORIES BELT - CRANKSHAFT ACCESSORIES PULLEY : REMOVAL - REFITTING



Note, one or more warnings are present in this procedure



Equipment required
sliding two-claw extractor

  parts always to be replaced:
Crankshaft accessories pulley bolts
Engine accessories belt
Accessories belt tensioning roller
Accessories fixed roller



WARNING

Wear cut-resistant gloves during the operation.



CAUTION

Do not run the engine without the accessories belt to avoid damaging the crankshaft accessories pulley.

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

REMOVAL

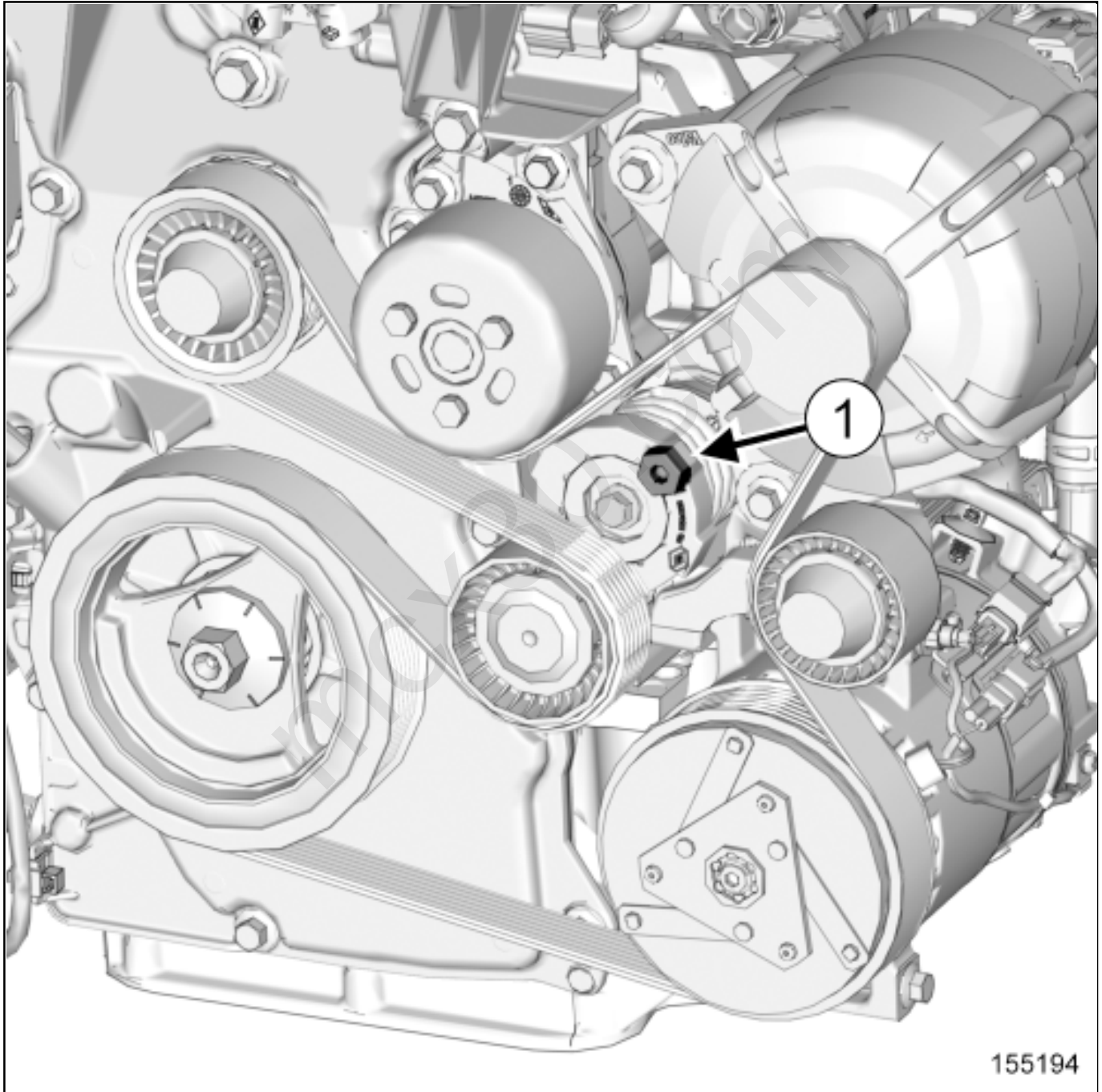
1. REMOVING THE ACCESSORIES BELT

1- REMOVAL PREPARATION OPERATION

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

Remove the engine undertray.

2- REMOVAL OPERATION



Rotate the automatic tensioning roller of the accessories belt clockwise(1) using a 16 mm spanner.

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

-
- the accessories belt,
- the accessories belt tensioning roller bolts.
- the accessories belt tensioning roller,
- the accessories belt fixed rollers protectors,
- the accessories belt fixed rollers bolts,
- the accessories belt fixed rollers.

2. REMOVING THE CRANKSHAFT ACCESSORIES PULLEY

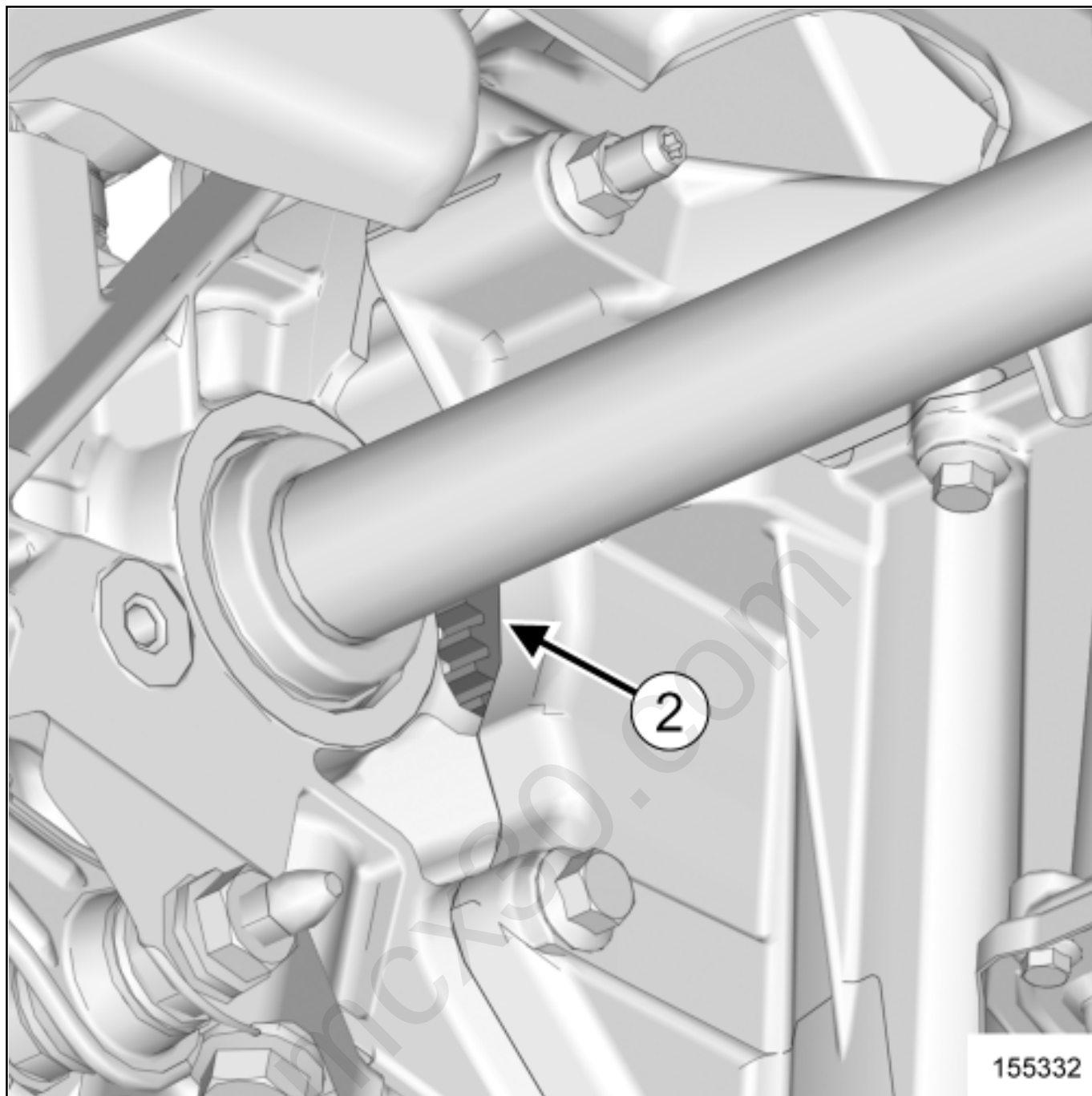
1- REMOVAL PREPARATION OPERATION

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

Remove:

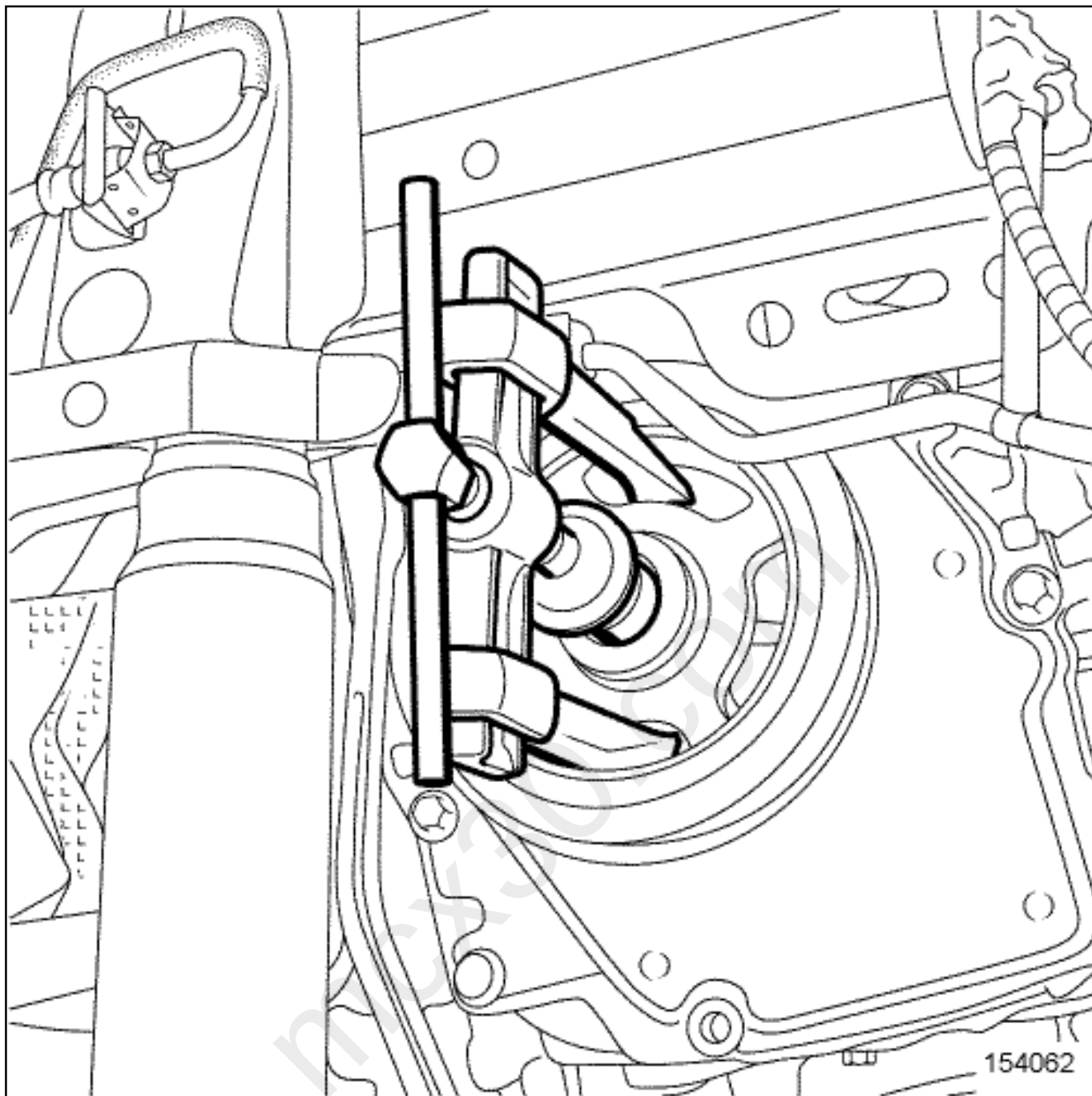
-
- the engine undertray,
- the front right-hand wheel [Front hub carrier assembly: Exploded view](#) ,
- the front section of the front right-hand wheel arch liner [Exterior body front trim assembly: Exploded view](#) ,
- the accessories belt [\(see 11A, Top and front of engine, Engine accessories assembly: Exploded view\)](#) .

2- REMOVAL OPERATION



Lock the flywheel using a screwdriver at(2) .

Loosen the crankshaft accessories pulley bolt([see 11A, Top and front of engine, Engine accessories assembly: Exploded view](#)) .



Fit an sliding two-claw extractor on the crankshaft accessories pulley.

Detach the crankshaft accessories pulley.

Remove the sliding two-claw extractor.

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



the crankshaft accessories pulley bolt,



the crankshaft accessories pulley.

REFITTING

1. REFITTING THE CRANKSHAFT ACCESSORIES PULLEY

1- REFITTING PREPARATION OPERATION



parts always to be replaced:

[Crankshaft accessories pulley bolts](#)



CAUTION

Ensure that the seals between the cooler and its two supports are correctly positioned to avoid any coolant leaks.



If reusing the crankshaft accessories pulley, clean the pulley V-grooves with a brush to eliminate any deposits.

2- REFITTING OPERATION



Refit the crankshaft accessories pulley [\(see 11A, Top and front of engine, Engine accessories assembly: Exploded view\)](#) .



Rotate the crankshaft accessories pulley on the crankshaft in order to fit the pulley onto the key groove of the crankshaft.



Refit a new crankshaft accessories pulley bolt([see 11A, Top and front of engine, Engine accessories assembly: Exploded view](#)) .



Lock the flywheel using a screwdriver.



Torque tighten the crankshaft accessories pulley bolt([see 11A, Top and front of engine, Engine accessories assembly: Exploded view](#)) .



Note:

Two operators are necessary.



Proceed in the reverse order to removal.

2. REFITTING THE ACCESSORIES BELT

1- REFITTING PREPARATION OPERATION



parts always to be replaced: [Engine accessories belt](#) .



parts always to be replaced: [Accessories belt tensioning roller](#) .



parts always to be replaced: [Accessories fixed roller](#) .



Using a brush, clean the v-block of the crankshaft pulley in order to remove any swarf.



Refit the new accessories belt fixed rollers([see 11A, Top and front of engine, Engine accessories assembly: Exploded view](#)) .



Torque tighten the accessories belt fixed rollers bolts([see 11A, Top and front of engine, Engine accessories assembly: Exploded view](#)) .



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



■ the accessories belt fixed rollers protector,



a new accessories belt tensioning roller.



Torque tighten the accessories belt tensioning roller bolts([see 11A, Top and front of engine, Engine accessories assembly: Exploded view](#)) .



Rotate the accessories belt tensioning roller clockwise using a 16 mmkey.



Refit a new accessories belt([see 11A, Top and front of engine, Engine accessories assembly: Exploded view](#)) .



Gradually unlock the tensioning roller using a 16 mmkey.



Rotate the crankshaft clockwise twice to balance the accessories belt tension on all pulleys.



Proceed in the reverse order to removal.