

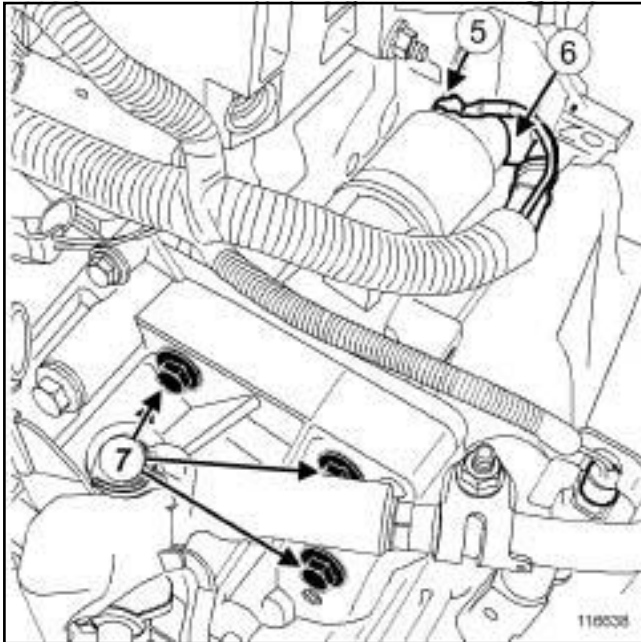
STARTING - CHARGING

Starter: Removal - Refitting

16A

K4M

II - REMOVAL OPERATION



❑ Remove:

- the nut (5) on the starter solenoid lead,
- the nut (6) on the starter lead,
- the starter bolts (7) ,
- the starter from underneath the vehicle.

REFITTING

I - REFITTING PREPARATION OPERATION

- ❑ Check that the centring dowel is in place.

II - REFITTING OPERATION

❑ Refit:

- the starter from underneath the vehicle,
- the starter bolts.

- ❑ Torque tighten the **starter bolts (44 N.m)**.

❑ Refit:

- the starter leads,
- the starter lead nut,
- the nut on the starter solenoid lead.

❑ Torque tighten:

- the **starter lead nut (8 N.m)**,
- the **nut on the starter solenoid lead (5 N.m)**.

III - FINAL OPERATION

JR5

❑ Clip:

- the gearbox control cable sleeve stops on the gearbox,
- the control cables onto the gearbox.

- ❑ Refit the air resonator (see **12A, Fuel mixture, Air resonator: Removal - Refitting**, page 12A-2) .

- ❑ Connect the battery (see **Battery: Removal - Refitting**) (80A, Battery).

STARTING - CHARGING

Alternator pulley: Removal - Refitting

16A

K4M

Equipment required

pneumatic or electric wrench

torque wrench

open-ended spanner for torque wrench

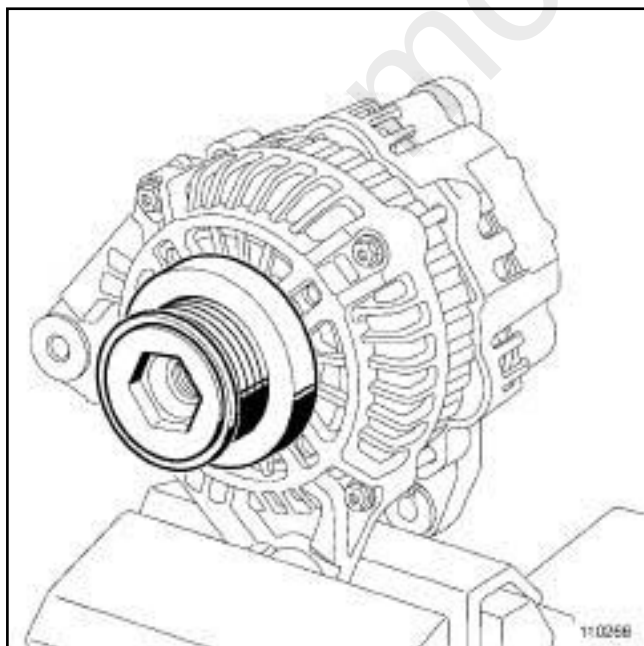
Tightening torques

alternator pulley 80 N.m

I - REMOVAL PREPARATION OPERATION

- ☐ Position the vehicle on a two-post lift (see **Vehicle: Towing and lifting**) .
- ☐ Disconnect the battery (see **Battery: Removal - Refitting**) .
- ☐ Remove:
 - the accessories belt (see **11A, Top and front of engine, Accessories belt: Removal - Refitting, page 11A-2**) ,
 - the alternator (see **16A, Starting - Charging, Alternator: Removal - Refitting, page 16A-1**) .

II - REMOVAL OPERATION FOR ALTERNATOR PULLEY



- ☐ Unclip the alternator pulley protector (if equipped).
- ☐ Place the alternator in a vice jaw.

STARTING - CHARGING

Alternator pulley: Removal - Refitting

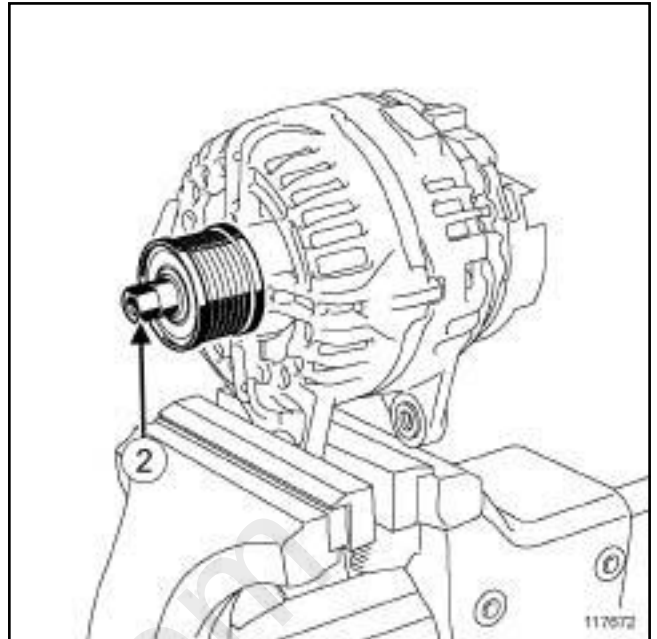
16A

K4M

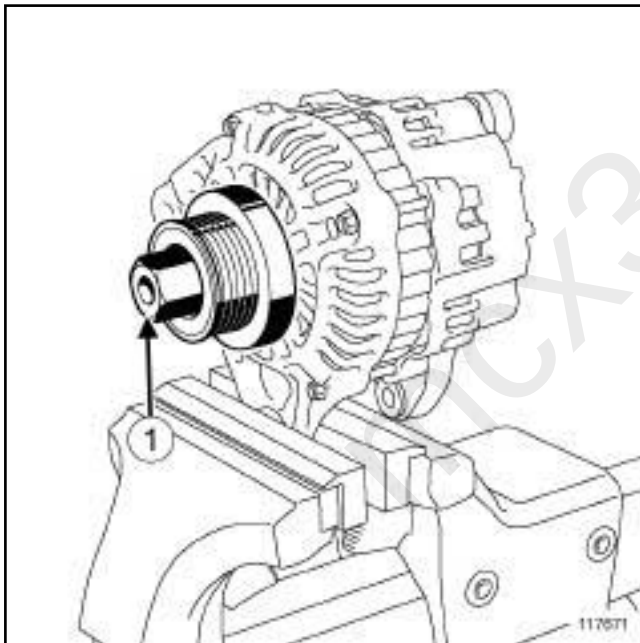
Mot. 1732



110276



117672



117671

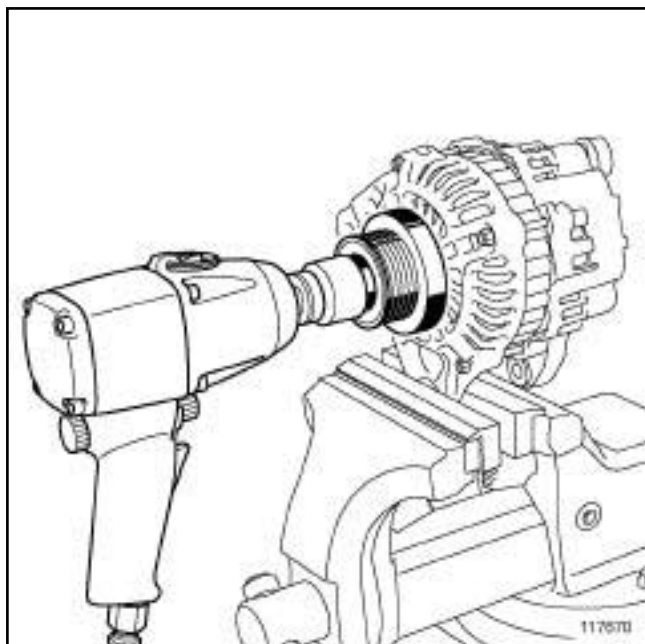
- Position the hexagonal socket (1) or the splined socket (2) from the kit in the alternator pulley (depending on the version).

STARTING - CHARGING

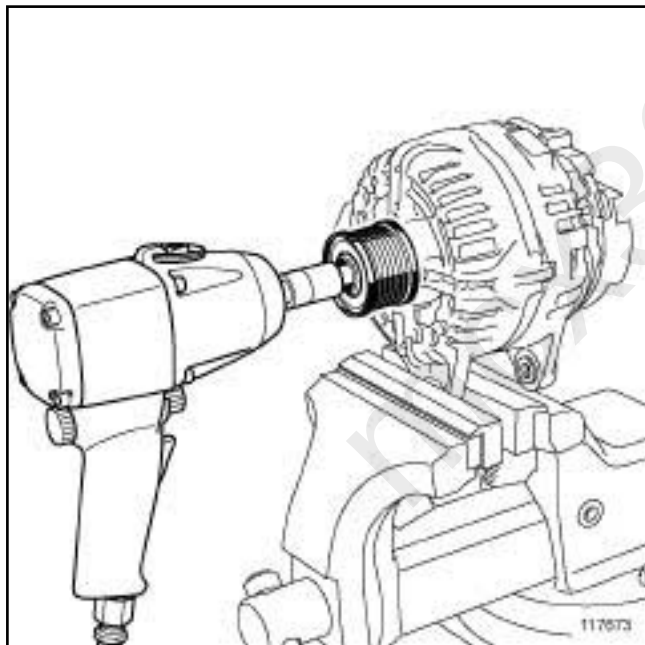
Alternator pulley: Removal - Refitting

16A

K4M



117670



117673

□

Note:

Always use a pneumatic or electric impact wrench to loosen the alternator pulley

Loosen the alternator pulley using a **pneumatic or electric wrench**.

□

Remove:

- the tools,

- the alternator pulley.

III - REFITTING PREPARATION OPERATION

□ parts always to be replaced: Accessories belt

parts always to be replaced: Accessories fixed roller

parts always to be replaced: Accessories belt tensioning roller

parts always to be replaced: Accessories tensioning roller bolt

parts always to be replaced: Alternator pulley

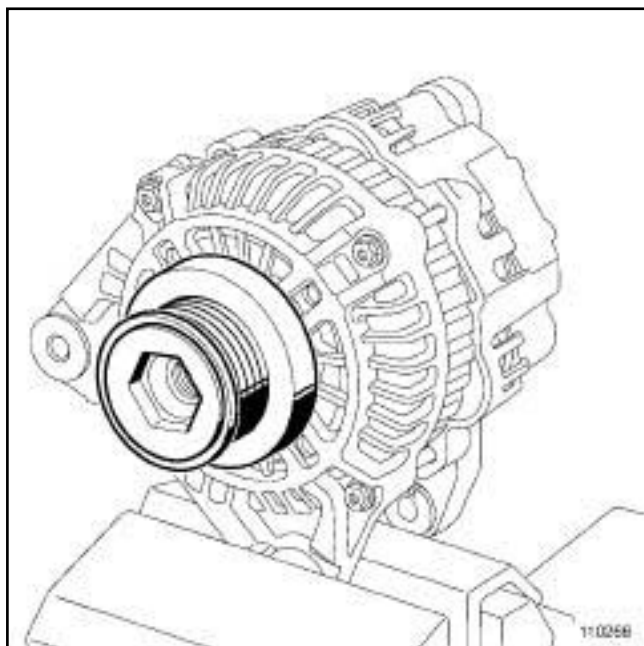
STARTING - CHARGING

Alternator pulley: Removal - Refitting

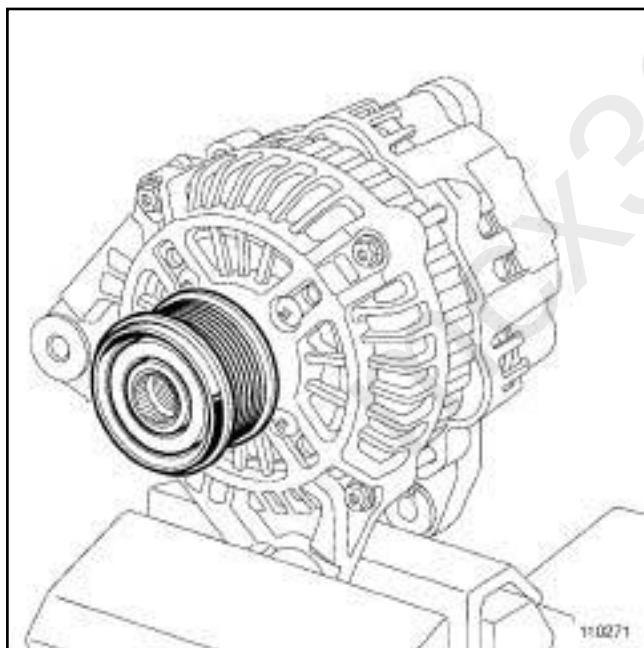
16A

K4M

IV - REFITTING OPERATION FOR THE ALTERNATOR PULLEY

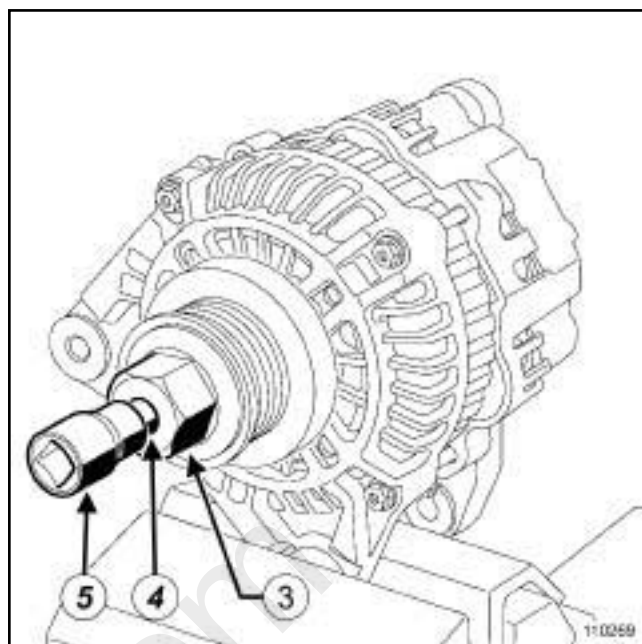


110266

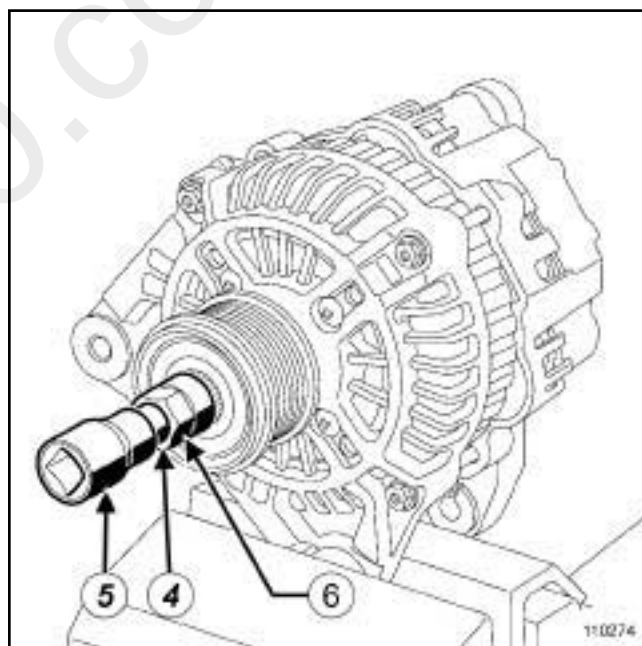


110271

- Tighten the new alternator pulley.



110269

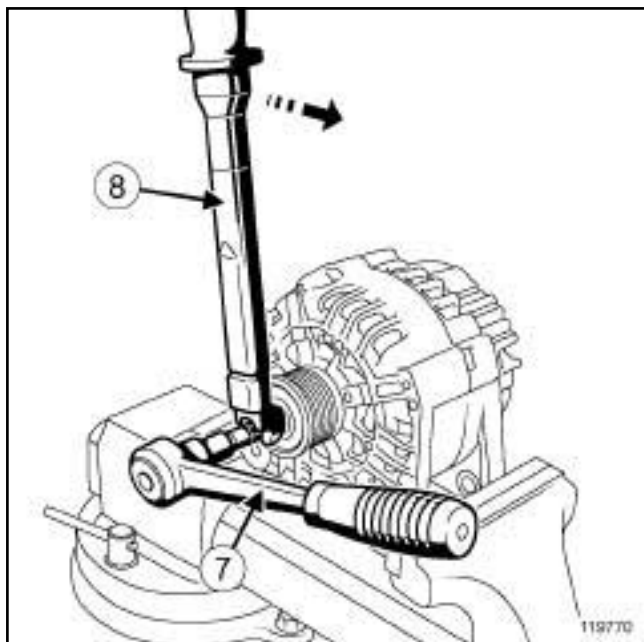


110274

□ Position:

- the hexagonal socket (3) or the splined socket (6) in the alternator pulley (depending on the version),
- the end piece (4) in the recess of the alternator rotor,
- the end piece holder (5) on the end piece.

K4M



119770

- ☐ Immobilise the alternator rotor using the spanner (7).
- ☐ Torque tighten the **alternator pulley (80 N.m)** using the **torque wrench (8)** equipped with a **15mm open-ended spanner for torque wrench**.
- ☐ Remove the tools.
- ☐ Clip the new protector onto the alternator pulley (if equipped).

V - FINAL OPERATION

- ☐ Refit:
 - the alternator (see **16A, Starting - Charging, Alternator: Removal - Refitting**, page **16A-1**) ,
 - the accessories belt (see **11A, Top and front of engine, Accessories belt: Removal - Refitting**, page **11A-2**) .
- ☐ Connect the battery (see **Battery: Removal - Refitting**) .

STARTING - CHARGING

Alternator pulley: Removal - Refitting

16A

K9K

Tightening torques

alternator pulley nut	80 N.m
-----------------------	--------

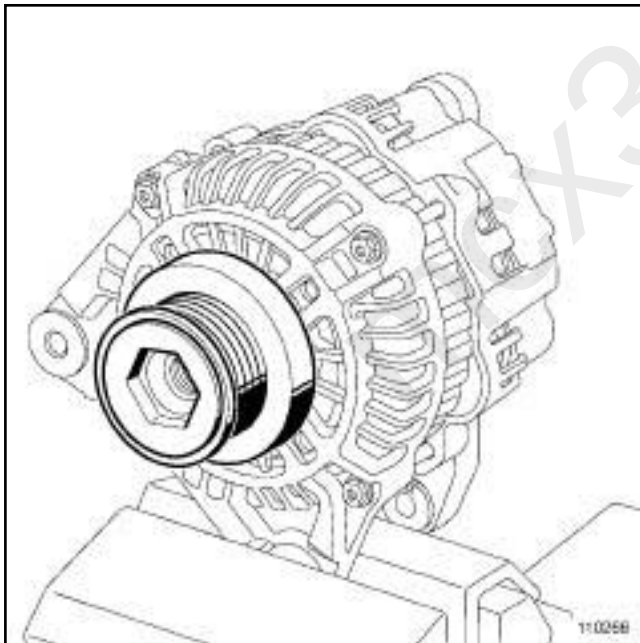
REMOVAL

I - REMOVAL PREPARATION OPERATION

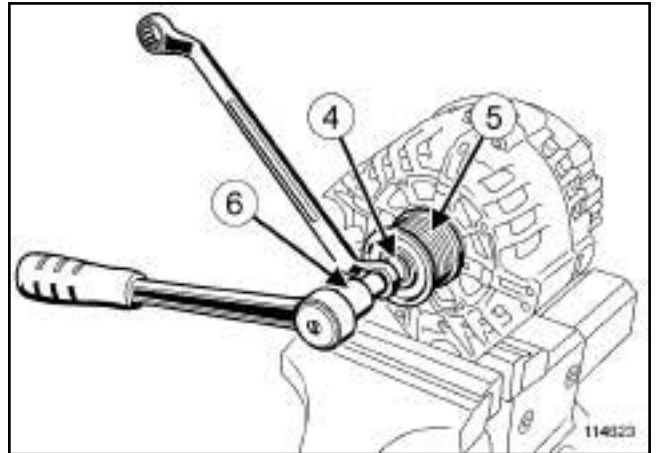
- ☐ Disconnect the battery (see **Battery: Removal - Refitting**) (80A, Battery).
- ☐ Remove:
 - the accessories belt (see **11A, Top and front of engine, Accessories belt: Removal - Refitting**, page **11A-2**),
 - the alternator (see **16A, Starting - Charging, Alternator: Removal - Refitting**, page **16A-1**).

II - OPERATION FOR REMOVAL OF PART CONCERNED

- ☐ Unclip the alternator pulley protector (if equipped).



- ☐ Place the alternator in a vice jaw.



- ☐ Fit:
 - the splined socket (4) of the free wheel pulley (5),
 - the end piece and holder assembly (6) of the alternator shaft.
- ☐ Immobilise the splined socket (4).
- ☐ Loosen the alternator shaft.
- ☐

Note:

Do not use a screwdriver to remove or refit the pulley. A damaged or deformed front bearing can lead to damage to the alternator.

- ☐ Remove the free wheel pulley.

REFITTING

I - REFITTING OPERATION FOR PART CONCERNED

- ☐ Refit the pulley to the alternator shaft