

ELECTRIC TRACTION MOTOR BRUSH: REMOVAL - REFITTING



Note, one or more warnings are present in this procedure



Special tooling required

Set of trim removal levers.

Car. 1363

Equipment required

protective gloves

Location and specifications (tightening torques, parts always replaced, etc.)[\(see 10B, Electric machine , Traction motor assembly: Exploded view\)](#) .

WARNING



☐ To avoid all risk of damage to the systems, apply the safety and cleanliness instructions and operation recommendations before carrying out any repair:

- (see **Electric vehicle power electronics : Precautions for the repair**) ,
- [Vehicle: Precautions for the repair](#) .

REMOVAL

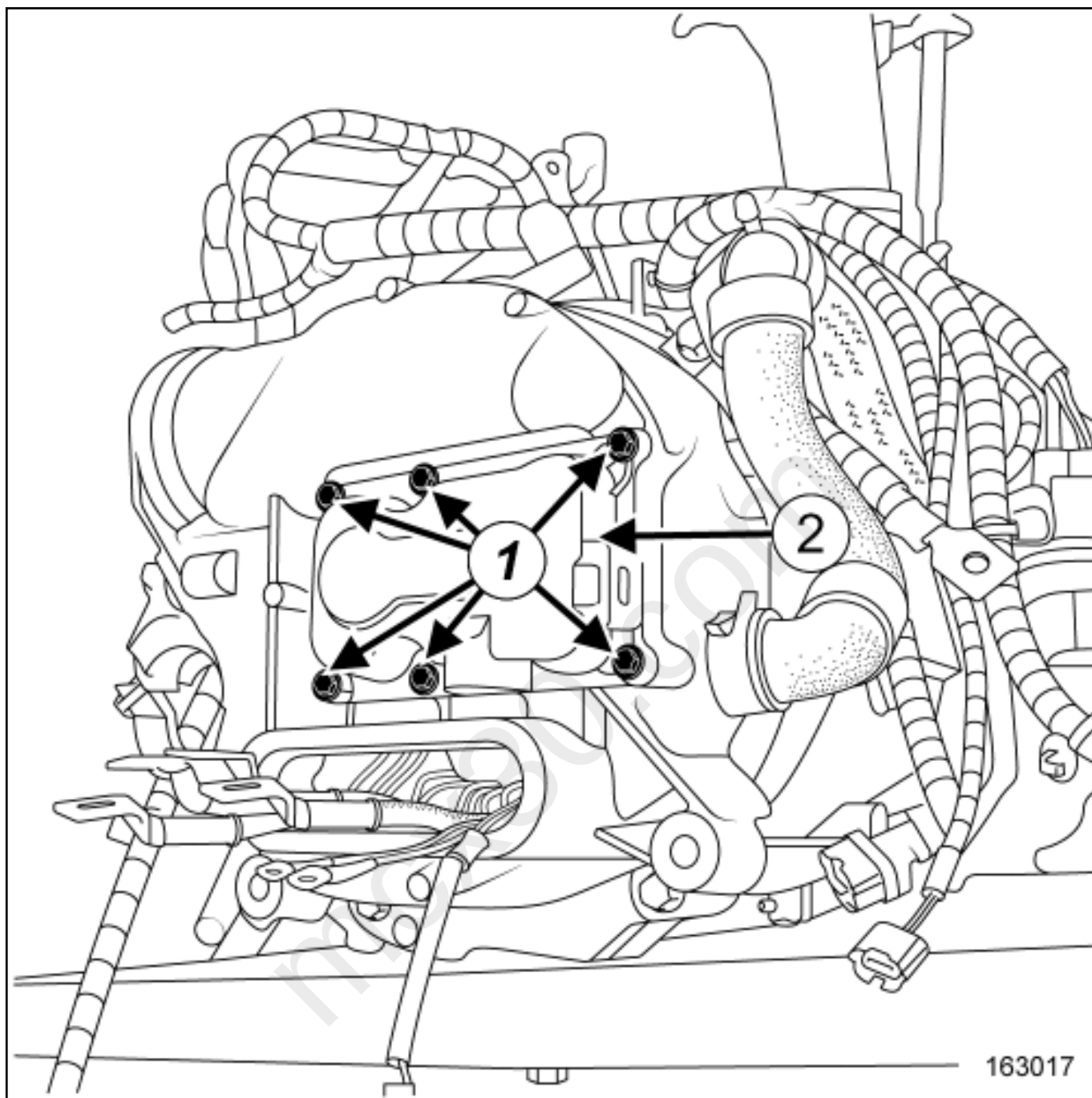
1. REMOVAL PREPARATION OPERATION

- ☐ Lockout the vehicle[Vehicle: Lockout - Removal of lockout](#) .
- ☐ Remove the electric powertrain assembly[Electric powertrain assembly : Removal - Refitting](#) .
- ☐ Place the electric powertrain assembly on the working table.
- ☐ Remove the electric vehicle charger and converter[Electric vehicle charger and converter: Removal - Refitting](#) .
- ☐ Place the electric traction motor assembly on the working table.

2. REMOVAL OPERATION

- ☐ Fit a dust proof mask(ref: 77 01 422 836).

■ Wear clean protective gloves.



■ Remove [\(see 10B, Electric machine , Traction motor assembly: Exploded view\)](#) :

- the six fixation screws(1) of the acces flap to electric traction motor brushes,
- the acces flap to electric traction motor brushes(2) .

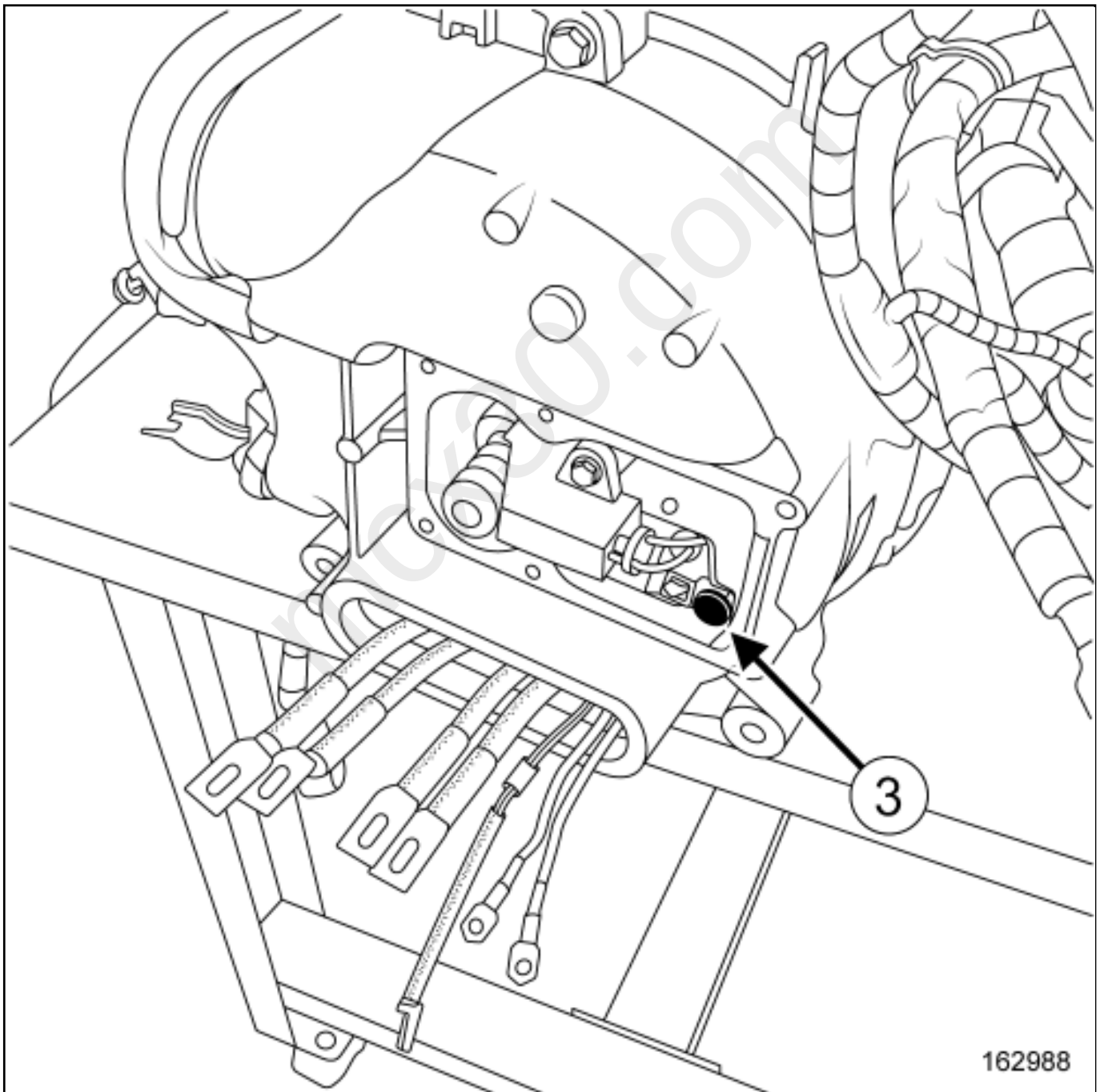
■ Clean using a vacuum cleaner with a plastic nozzle pen or flatthe electric traction motor brushes compartments.

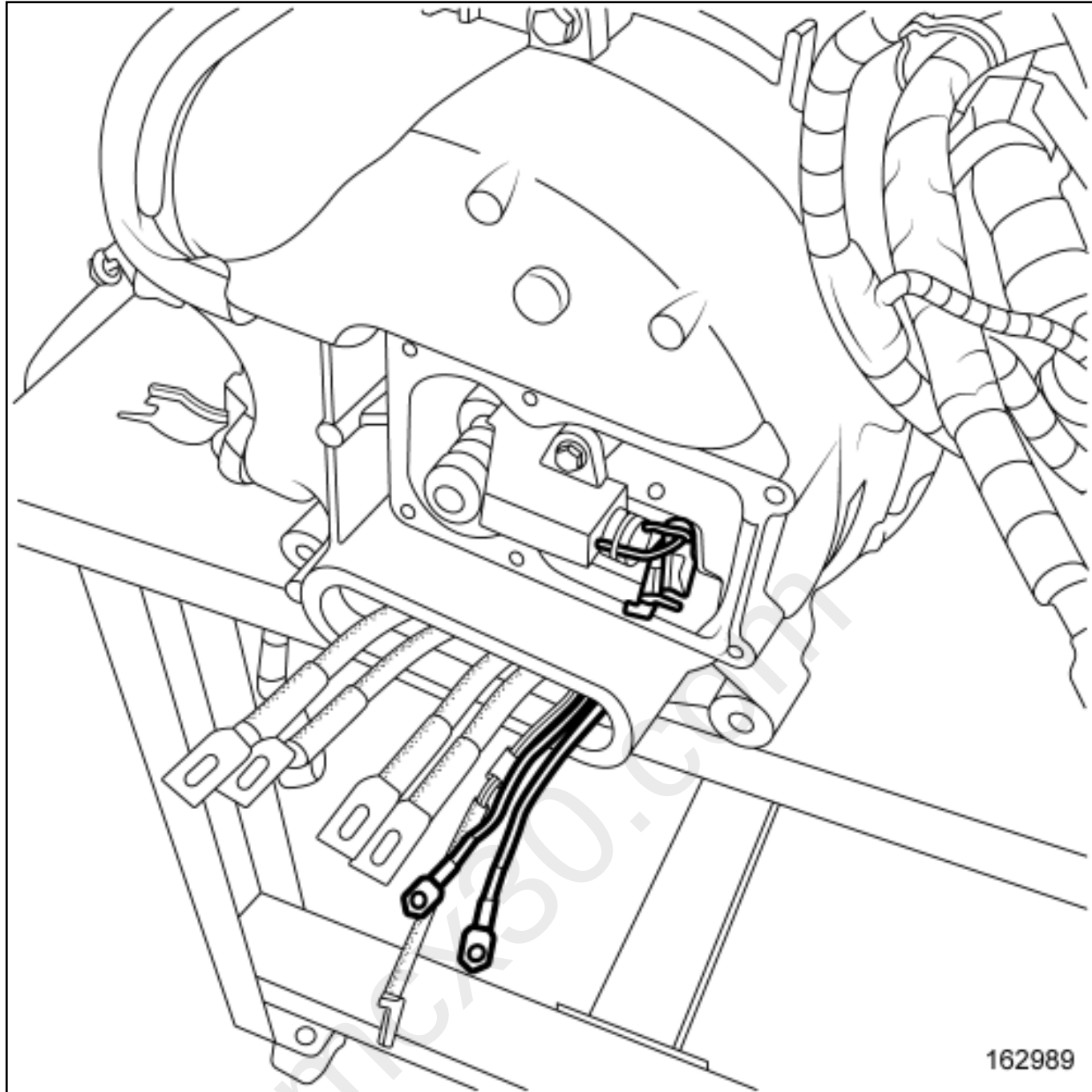


CAUTION

To avoid any impurities insertion, do not blast with compressed air. The use of unspecified cleaning products may damage the components (see Vehicle: "Parts and consumables for repair").

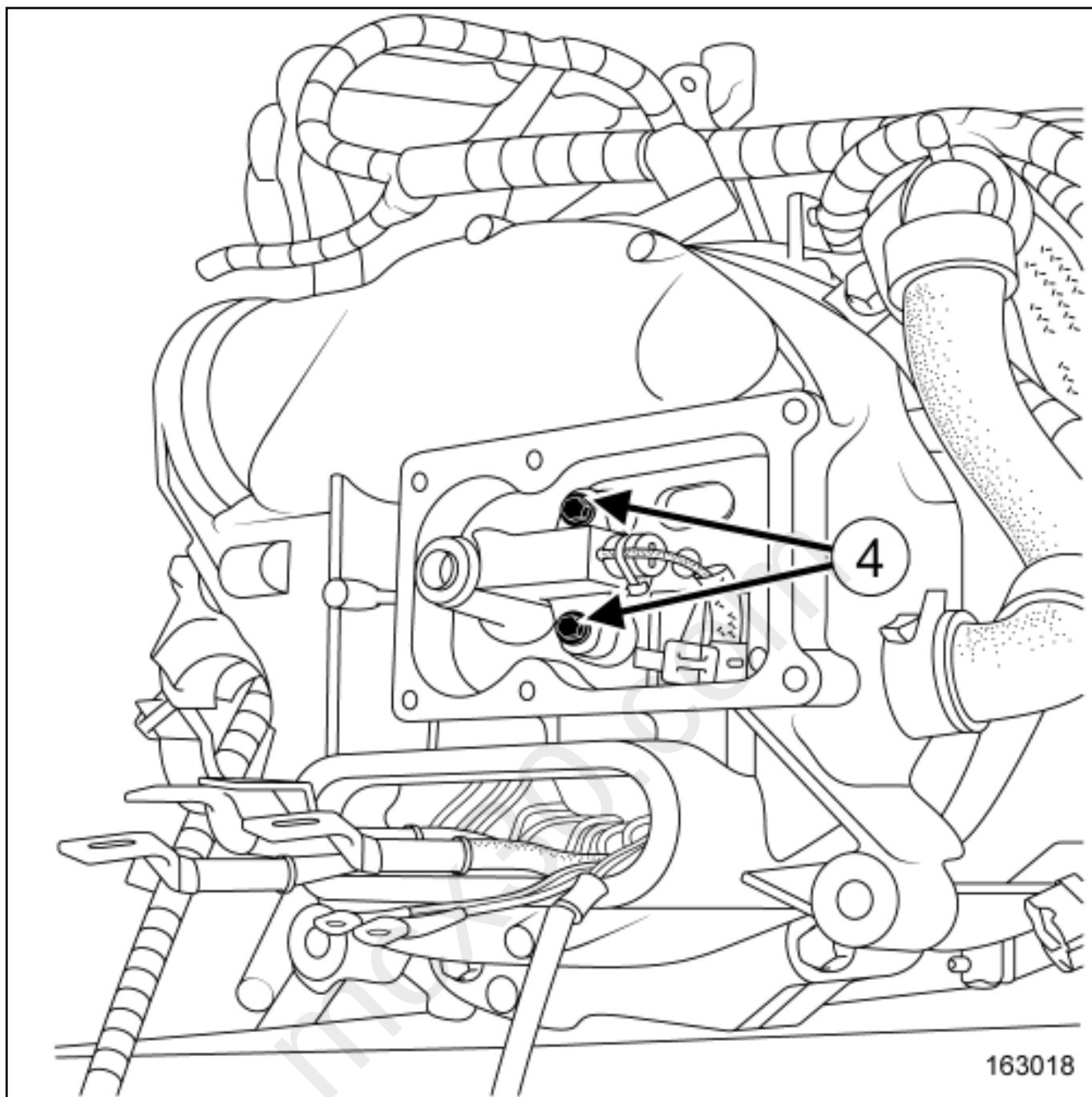
- Fit the additional supplied retainer in the after sale kit using the toolSet of trim removal levers.(Car. 1363) .





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- Unclip the electric traction motor brushes wiring clip(3) .



Remove [\(see 10B. Electric machine , Traction motor assembly: Exploded view\)](#) :

- the two fixation screws(4) of the electric traction motor brushes,

- the electric traction motor brushes.

Clean using a vacuum cleaner with a plastic nozzle pen or flat the electric traction motor brushes compartments.



CAUTION

To avoid any impurities insertion, do not blast with compressed air. The use of unspecified cleaning products may damage the components (see Vehicle: "Parts and consumables for repair").



Note:

The dust proof mask can be removed.

REFITTING

1. REFITTING OPERATION



Refit [\(see 10B, Electric machine , Traction motor assembly: Exploded view\)](#) :

-
- the new electric traction motor brushes by passing the wiring through the inner of the electrical machine,
- the two fixation screws of the electric traction motor brushes.



Torque tighten the two fixation screws of the electric traction motor brushes [\(see 10B, Electric machine, Traction motor assembly: Exploded view\)](#) .



Mark always the screws with a paint marker of a color different from the original.



Clip the electric traction motor brushes wiring clip.



Remove the retainer from the electric traction motor brushes.



Refit [\(see 10B, Electric machine , Traction motor assembly: Exploded view\)](#) :



the acces flap to electric traction motor brushes,



the six fixation screws of the acces flap to electric traction motor brushes.



Torque tighten the six fixation screws of the acces flap to electric traction motor brushes[\(see 10B, Electric machine , Traction motor assembly: Exploded view\)](#) .



Mark always the screws with a paint marker of a color different from the original.

2. FINAL OPERATION



Proceed in the reverser order to removal.



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