

ELECTRIC POWERTRAIN ASSEMBLY WIRING : REMOVAL - REFITTING



Note, one or more warnings are present in this procedure



Locations and specifications (tightening torques, parts always to be replaced, etc.) [\(see 17E, Power electronics, Electric powertrain assembly : Exploded view\)](#) .

CAUTION



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

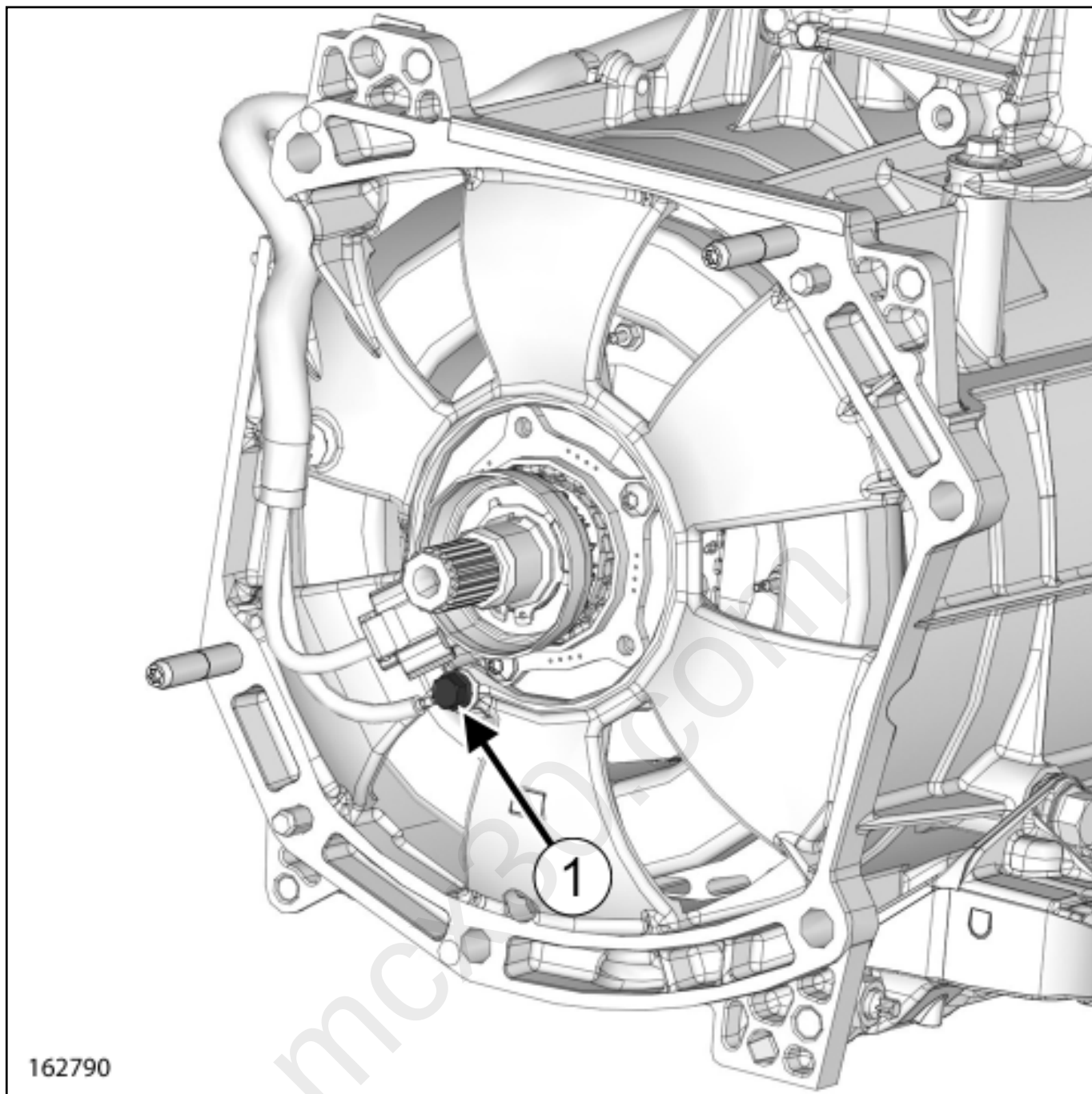
- (see **Electric vehicle power electronics : Precautions for the repair**) ,
- [Vehicle: Precautions for the repair](#) .

REMOVAL

1. REMOVAL PREPARATION OPERATION

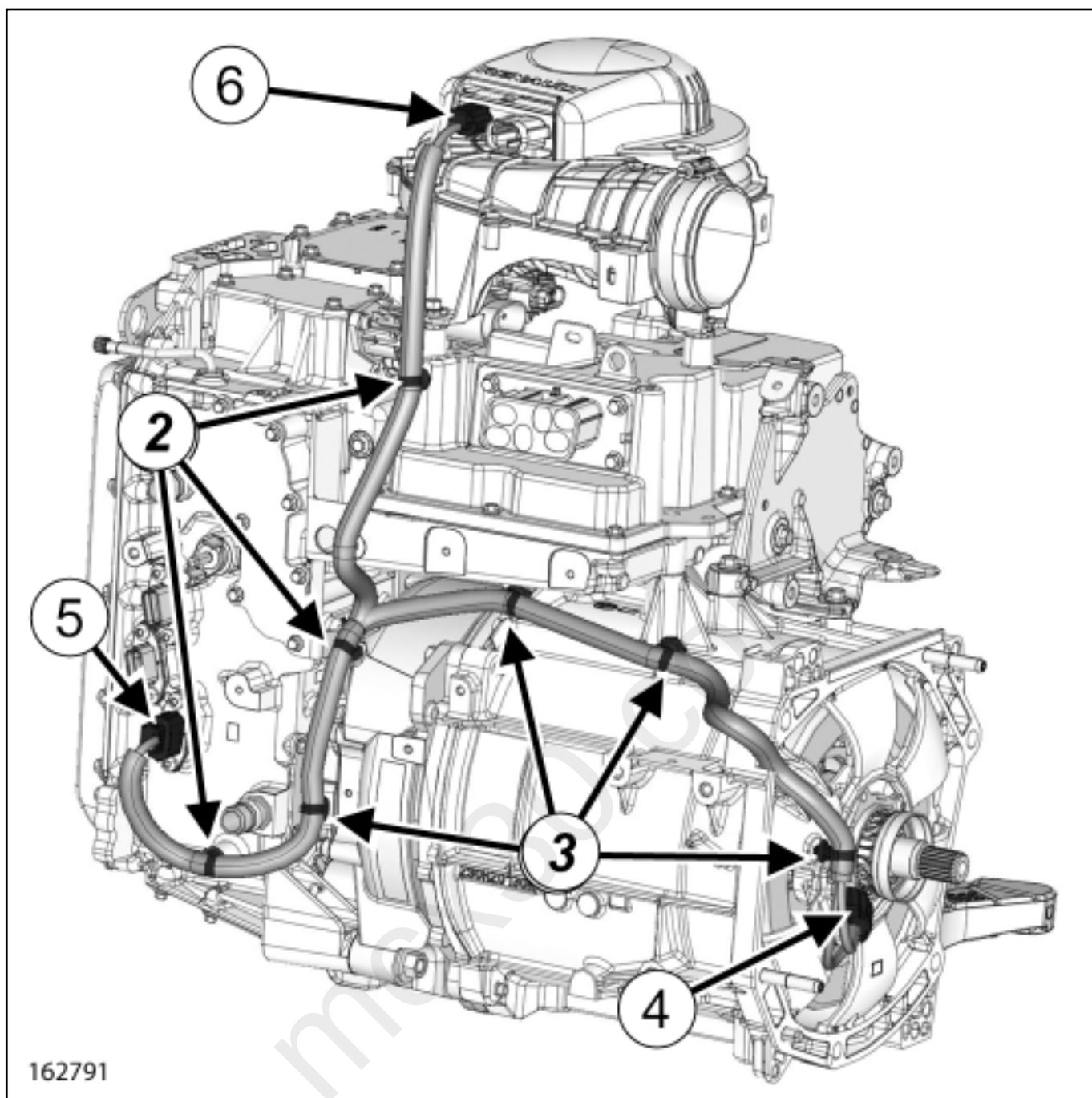
- Lockout the vehicle [Vehicle: Lockout - Removal of lockout](#) .
- Remove the electric powertrain assembly [\(see 17E, Power electronics, Electric powertrain assembly : Removal - Refitting\)](#) .
- Fit the electric powertrain assembly in the table.
- Remove the bracket lower engine tie-bar rod [Engine-gearbox unit support assembly: Exploded view](#) .
- Remove the electric traction reduction assembly (see **Electric traction reduction gearing assembly: Removal - Refitting**) .

2. REMOVAL OPERATION



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- Remove the electrical connection screw(1) of the electric traction motor signal wiring.



- Unclip the electric traction motor signal wiring from :
 - the electric vehicle charger and converter(2) ,
 - the electric traction motor assembly(3) .

- Disconnect the electric traction motor signal wiring connectors from:
 - the position rotor sensor(4) ,
 - the electric vehicle charger and converter(5) ,
 - the engine cooling fan assembly(6) .

- Remove the electric traction motor signal wiring([see 17E, Power electronics, Electric powertrain assembly : Exploded view](#)) .

1. REFITTING OPERATION

- Refit the electric traction motor signal wiring([see 17E, Power electronics, Electric powertrain assembly : Exploded view](#)) .
- Connect the electric traction motor signal wiring connectors on :
 - the position rotor sensor,
 - the electric vehicle charger and converter,
 - the engine cooling fan assembly.
- Check the electrical connections with a push-pull test([see Electric vehicle power electronics : Precautions for the repair](#)) .
- Clip the electric traction motor signal wiring on :
 - the electric traction motor assembly,
 - the electric vehicle charger and converter.
- Refit the electrical connection screw of the electric traction motor signal wiring.
- Torque tighten the electrical connection screw of the electric traction motor signal wiring([see 17E, Power electronics, Electric powertrain assembly : Removal - Refitting](#)) .
- Mark always the screw using a paint marker of a color different from the original.

2. FINAL OPERATION

- Proceed in the reverse order to removal.



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