

ROTOR POSITION SENSOR: REMOVAL - REFITTING



Note, one or more warnings are present in this procedure



Equipment required

Diagnostic tool

Location and specifications (tightening torques, parts always replaced, etc.)[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:

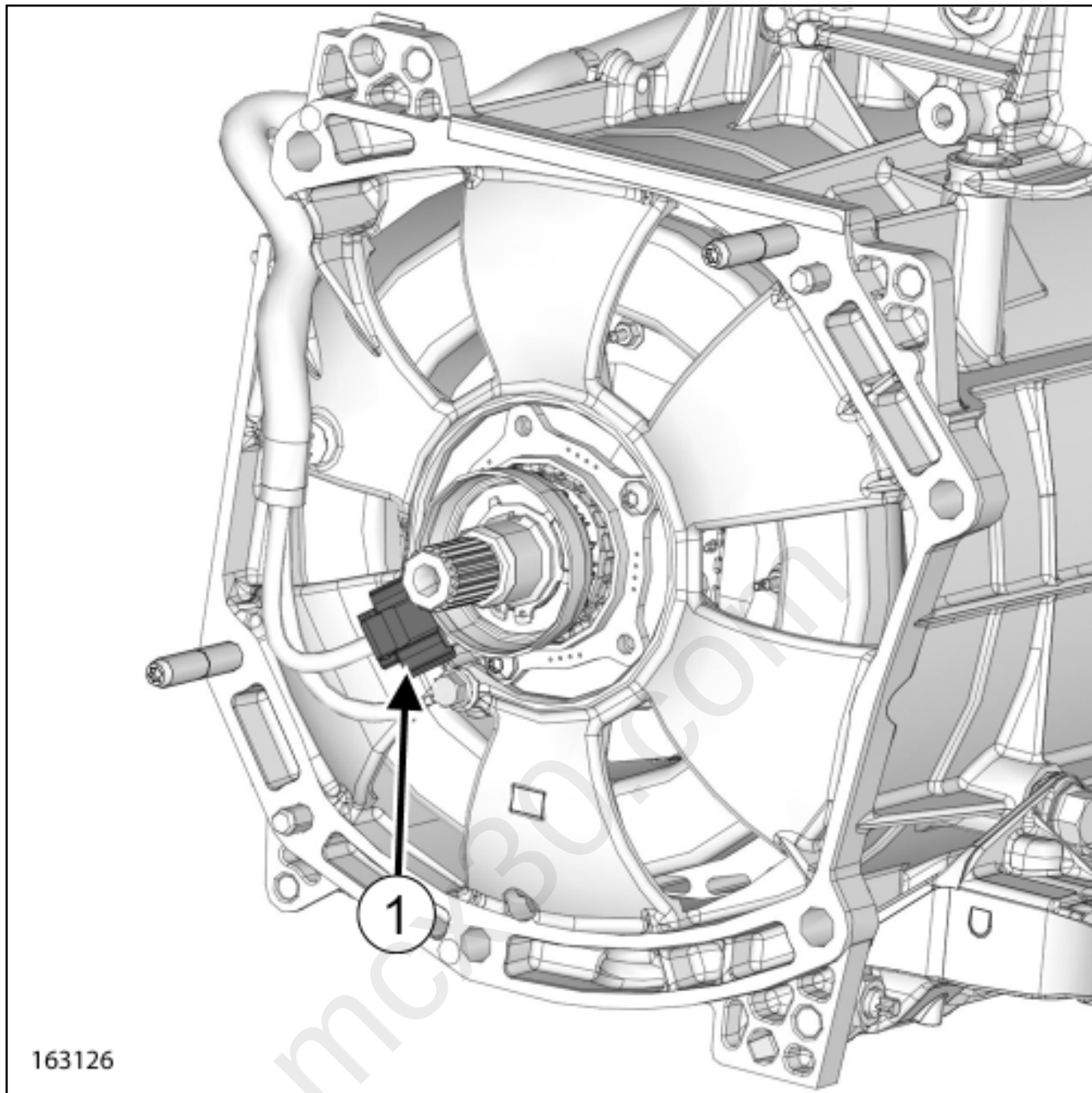
- (see **Electric vehicle power electronics : Precautions for the repair**) ,
- [Vehicle: Precautions for the repair](#) .

REMOVAL

1. REMOVAL PREPARATION OPERATION

- Lockout the vehicle[Vehicle: Lockout - Removal of lockout](#) .
- Remove the electric traction reducer assembly(see **Electric traction reduction gearing assembly: Removal - Refitting**) .

2. REMOVAL OPERATION



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■ Unclip the electric traction motor signal wiring connector(1) ([see 17E, Power electronics, Electric powertrain assembly : Exploded view](#)) from the rotor position sensor.

■ Remove [Traction motor assembly: Exploded view](#) :

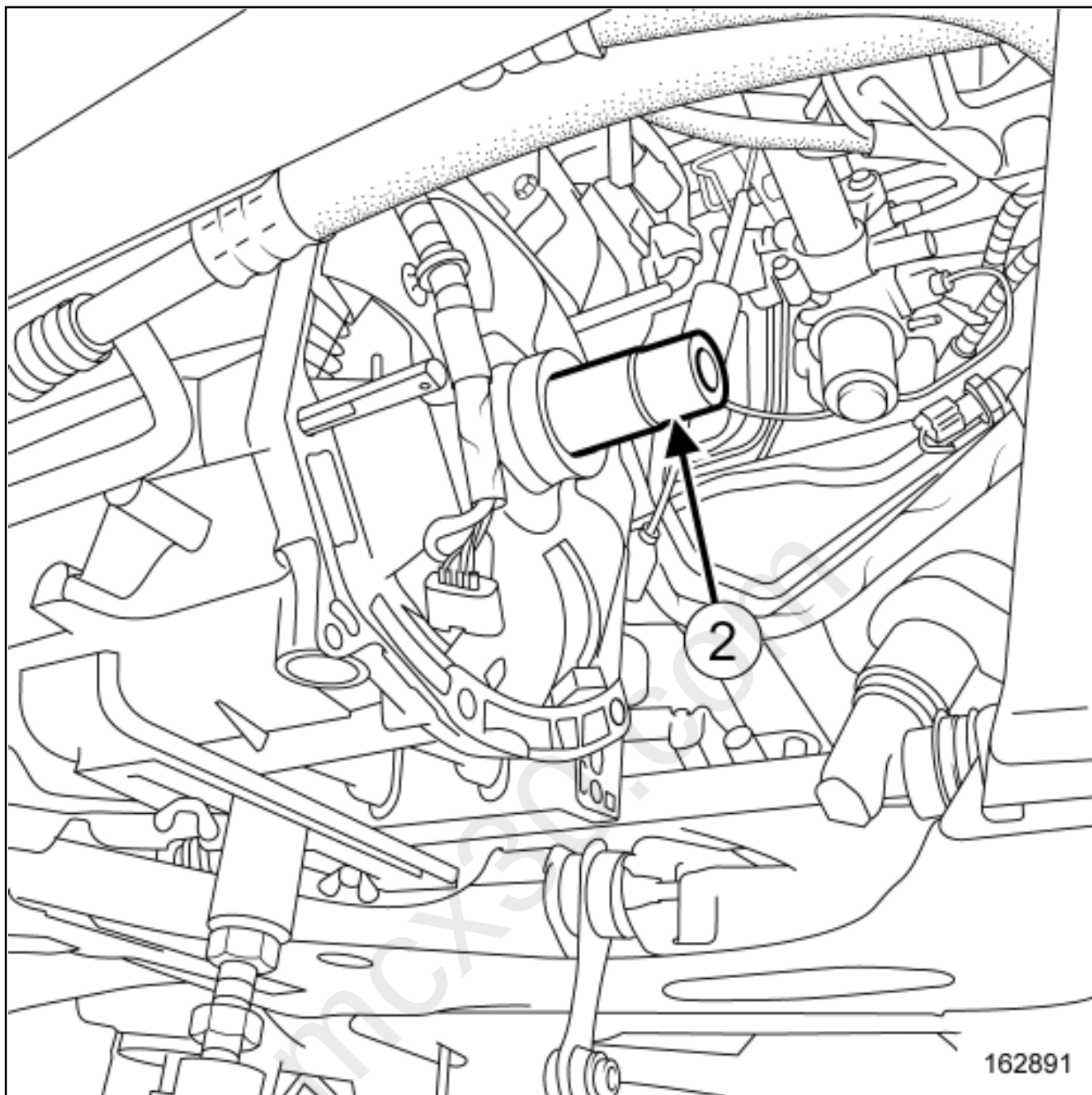
- the rotor position sensor target lock ring using a outside snap-ring pliers,
- the deflector,
- the rotor position sensor target,
- the three fixation screws of the rotor position sensor,
- the rotor position sensor.

1. REFITTING PREPARATION OPERATION

- Part always to be replaced : the rotor position sensor target lock ring.

2. REFITTING OPERATION

- Refit [Traction motor assembly: Exploded view](#) :
 - the new rotor position sensor,
 - the three fixation screws of the rotor position sensor.
- Torque tighten the three fixation screws of the rotor position sensor. [Traction motor assembly: Exploded view](#) .
- Mark always the screws with a paint marker of a color different from the original.
- Refit [Traction motor assembly: Exploded view](#) :
 - the rotor position sensor target,
 - the deflector.



- Position the new rotor position sensor target lock ring on the electric traction motor shaft using a long reach 6-point socket(2) and a mallet.



Note:

If necessary use a inside snap-ring pliers.

- Clip the electric traction motor signal wiring connector([see 17E, Power electronics, Electric powertrain assembly : Exploded view](#)) on the rotor position sensor.

■ Check the electrical connections with a push-pull test(see **Electric vehicle power electronics : Precautions for the repair**) .

3. FINAL OPERATION

■ Refit the electric traction reducer assembly(see **Electric traction reduction gearing assembly: Removal - Refitting**) .

■ Remove the lockout of the vehicle [Vehicle: Lockout - Removal of lockout](#) .

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

-Computer concerned by the After repair procedure:

■ "Converter of electric vehicle" ,

-Component controlled by this computer concerned by the After repair procedure:

■ "Rotor position sensor" .



Note:

Let the vehicle on the two-post lift for to let the wheels turn.



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