

- the new coolant pump seal,
- the coolant pump with its pulley,
- the coolant pump bolts.



Torque tighten in order the coolant pump bolts([see 10A, Engine and cylinder block assembly, Cylinder block assembly: Exploded view](#)) .

3. FINAL OPERATION



Fit the water pump pulley.



Refit the water pump pulley bolts([see 10A, Engine and cylinder block assembly, Cylinder block assembly: Exploded view](#)) .



Torque tighten the bolts of the coolant pump pulley, locking the coolant pump pulley using a screwdriver ([see 10A, Engine and cylinder block assembly, Cylinder block assembly: Exploded view](#)) .



Proceed in the reverse order to removal.



Repair-10x06x01x04-01x37-1-134-1.xml



COOLANT TEMPERATURE SENSOR: REMOVAL - REFITTING



Note, one or more warnings are present in this procedure



parts always to be replaced:



coolant temperature sensor seal

WARNING

The circuits are designed to be pressurised, so be careful at high temperatures (risk of serious burns).



Do not remove the cap from the expansion bottle while the engine is hot.

Take care when carrying out a repair under the bonnet, as the radiator fan(s) may start to operate without warning.

Do not open the bleed screw(s) with the engine running.



CAUTION

Before the operation, protect the electrical accessories to prevent any risk of short circuiting and protect the belts to avoid damaging them.



CAUTION

The coolant helps to keep the engine running properly (heat exchange).

The system does not operate using pure water.

Locations and specifications (tightening torques, parts always to be replaced, etc.) [\(see 19A, Cooling, Coolant circuit assembly: Exploded view\)](#) .

1. REMOVAL PREPARATION OPERATION



Disconnect the air filter unit air inlet pipe [Air inlet assembly: Exploded view](#) :



from the front end panel,

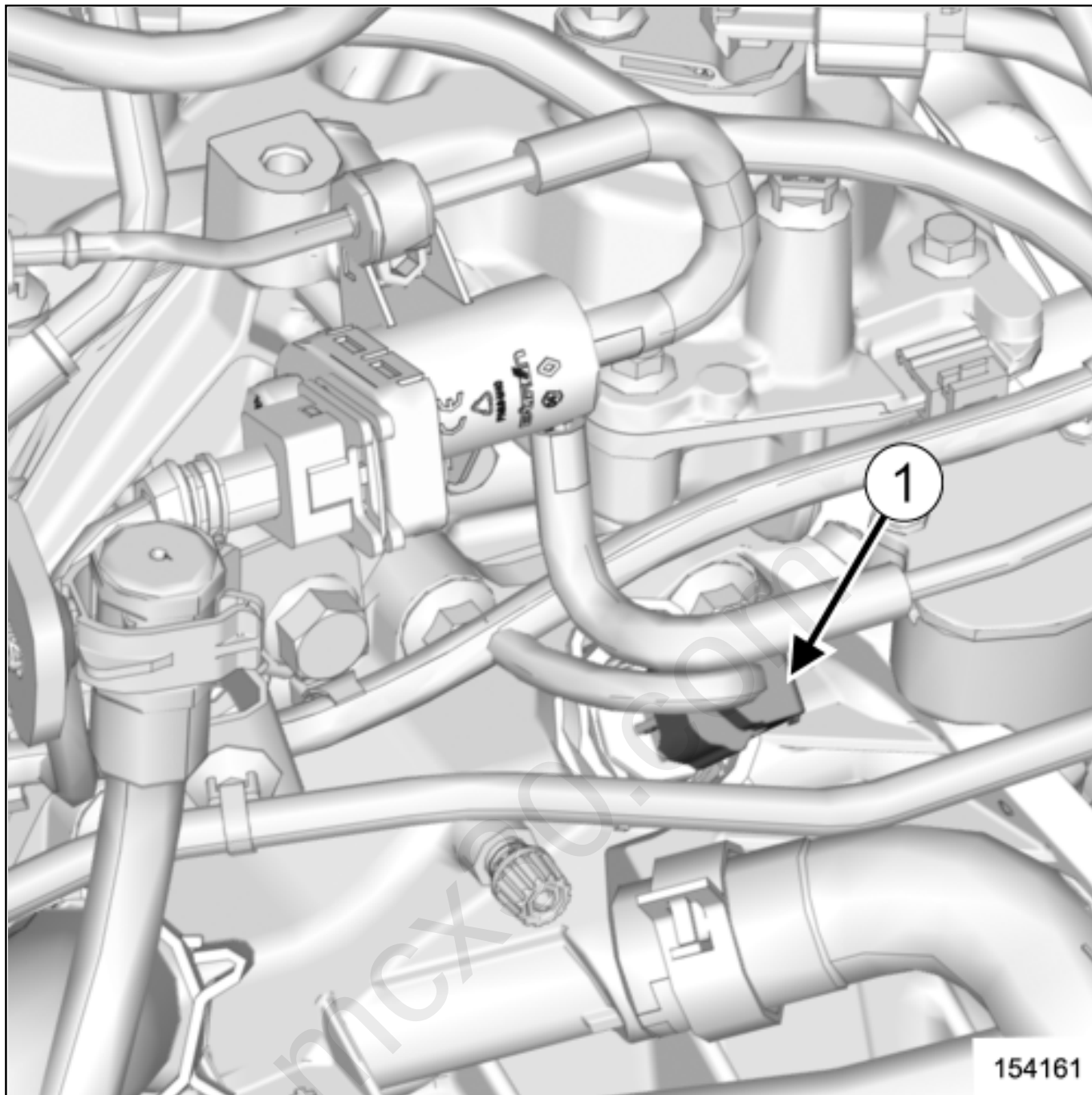


from the air filter unit.



Remove the air filter unit air inlet pipe [Air inlet assembly: Exploded view](#) .

2. REMOVAL OPERATION



Disconnect the coolant temperature sensor connector(1) .

Remove [\(see 19A, Cooling, Coolant circuit assembly: Exploded view\)](#) :

-
- the clip from the coolant temperature sensor,
-
- the coolant temperature sensor,

the coolant temperature sensor seal.

REFITTING

1. REFITTING PREPARATION OPERATION



parts always to be replaced: coolant temperature sensor seal .



Use SURFACE CLEANER(see **Vehicle: Parts and consumables for the repair**) to clean and degrease:



the seal housing in the water chamber,



the seal mating face of the coolant temperature sensor if reused.

1. REFITTING OPERATION



Refit (see 19A, Cooling, Coolant circuit assembly: Exploded view) :



the coolant temperature sensor fitted with a new seal,



the coolant temperature sensor clip.



Connect the coolant temperature sensor connector.

2. FINAL OPERATION



Proceed in the reverse order to removal.

