

COOLANT CIRCUIT ASSEMBLY: EXPLODED VIEW



Note, one or more warnings are present in this procedure



Special tooling required	
Clip pliers for hose clips (large size).	Mot. 1202-01
Clip pliers for hose clips (small size)	Mot. 1202-02
Remote operation pliers for hose clips.	Mot. 1448



WARNING

- To avoid all risk of damage to the systems, apply the safety and cleanliness instructions and operation recommendations before carrying out any repair:
 - Vehicle: [Precautions for the repair](#).



WARNING

When working in the engine compartment, take care as the radiator fan(s) may start up unexpectedly (risk of being cut).

- To avoid any risk of serious burns when the engine is hot:
 - do not open the expansion bottle cap,
 - do not drain the cooling system,
 - do not open the bleed screw(s).



CAUTION

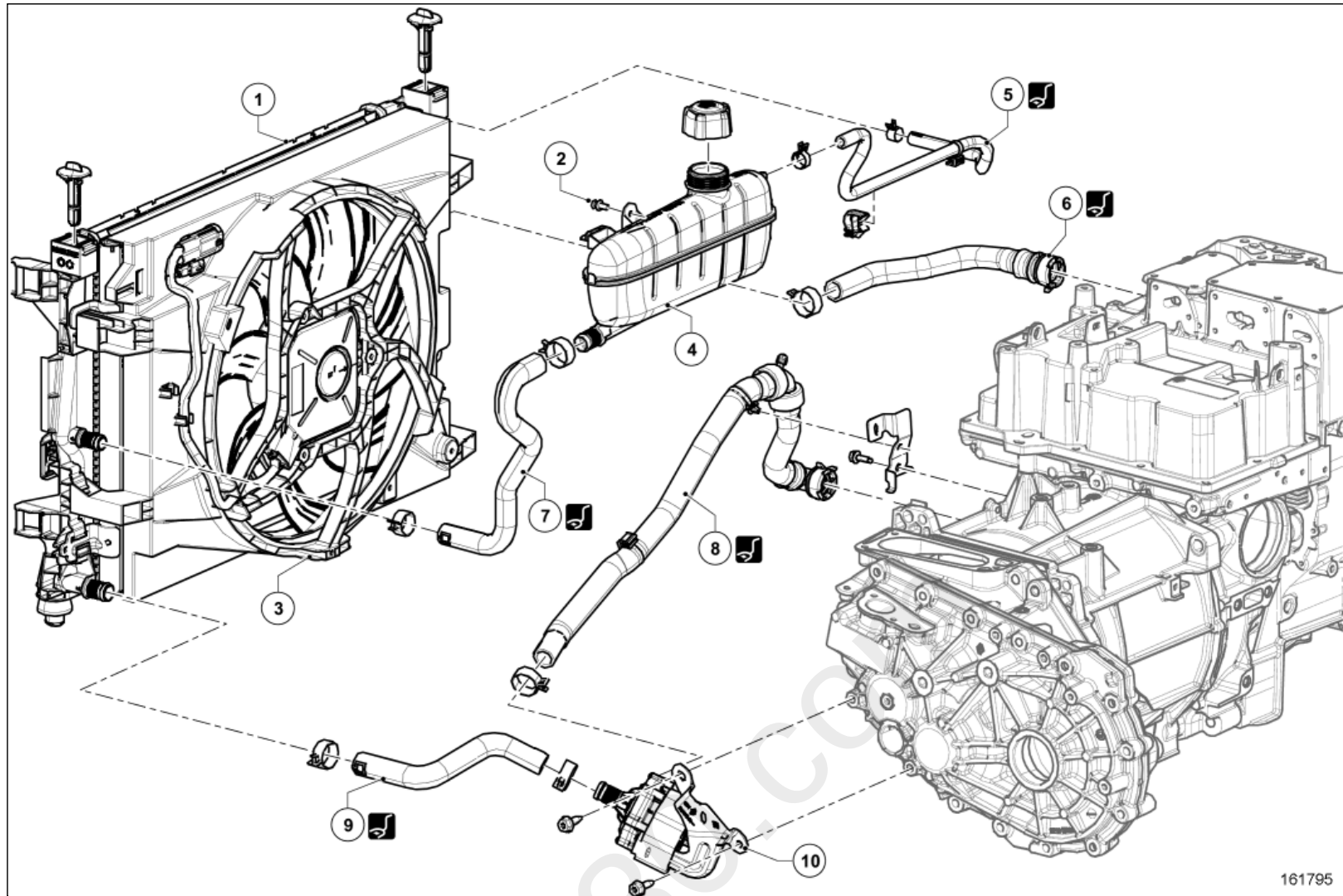
When carrying out a repair that requires a complete change, it is essential to flush the circuit with clean water, blast compressed air through the circuit to drive out the water, fill and bleed the circuit and then measure the effective protection.

- The criteria to be met are:
 - protection down to -25°C for cold and temperate countries,
 - protection down to -40°C for very cold countries.



CAUTION

Prepare for the flow of fluid, and protect the surrounding components.



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[Illustration key: Description](#) .

For fastenings with no specified tightening torque values, refer to the Table of Standard Torques [Tightening torques: General information](#) .

Marks	Designations	Informations
1	Cooling radiator	(see 19A, Cooling, Cooling radiator: Removal - Refitting)
2	Clip	
3	Engine cooling fan assembly	(see Cylinder block assembly: Exploded view)
4	Expansion bottle	(see 19A, Cooling, Expansion bottle: Removal - Refitting)
5	Cooling radiator degassing pipe	Clip pliers for hose clips (large size).(Mot. 1202-01) Clip pliers for hose clips (small size).(Mot. 1202-02) Remote operation pliers for hose clips.(Mot. 1448)
6	Cooling radiator inlet pipe	Clip pliers for hose clips (large size).(Mot. 1202-01) Clip pliers for hose clips (small size).(Mot. 1202-02) Remote operation pliers for hose clips.(Mot. 1448)
7	Cooling radiator degassing pipe	Clip pliers for hose clips (large size).(Mot. 1202-01) Clip pliers for hose clips (small size).(Mot. 1202-02) Remote operation pliers for hose clips.(Mot. 1448)
8	Electric coolant pump pipe inlet	(see 19A, Cooling, Electric coolant pump: Removal - Refitting) Clip pliers for hose clips (large size).(Mot. 1202-01) Clip pliers for hose clips (small size).(Mot. 1202-02) Remote operation pliers for hose clips.(Mot. 1448)
9	Cooling radiator outlet pipe	Clip pliers for hose clips (large size).(Mot. 1202-01) Clip pliers for hose clips (small size).(Mot. 1202-02) Remote operation pliers for hose clips.(Mot. 1448)
10	Electric coolant pump	(see 19A, Cooling, Electric coolant pump: Removal - Refitting)

