

Marks	Designations	Informations
1	Cooling radiator degassing pipe	(Mot 1202-01, Mot 1202-02, Mot 1448)
2	Engine cooling fan assembly	(see 19A, Cooling, Engine cooling fan assembly: Removal - Refitting)
3	Cooling radiator	(see 19A, Cooling, Cooling radiator: Removal - Refitting)
4	Cooling radiator inlet pipe	(Mot 1202-01, Mot 1202-02, Mot 1448)
5	Cooling fan assembly resistor	(see 19A, Cooling, Cooling fan assembly resistor : Removal - Refitting)
6	Cooling radiator outlet pipe	(Mot 1202-01, Mot 1202-02, Mot 1448)
7	Heater matrix coolant outlet pipe	(Mot 1202-01, Mot 1202-02, Mot 1448)
8	Heater matrix coolant inlet pipe	(Mot 1202-01, Mot 1202-02, Mot 1448)
11	Cooling pipe	(Mot 1202-01, Mot 1202-02, Mot 1448)
12	Cooling pipe	(Mot 1202-01, Mot 1202-02, Mot 1448)
13	Cooling pipe	(Mot 1202-01, Mot 1202-02, Mot 1448)
14	Water inlet housing	(see 19A, Cooling, Water chamber: Removal - Refitting)
15	Water pump	(see 19A, Cooling, Coolant pump: Removal - Refitting)
19	Expansion bottle	
20	Cooling radiator degassing pipe	(Mot 1202-01, Mot 1202-02, Mot 1448)



COOLANT CIRCUIT ASSEMBLY: EXPLODED VIEW



Note, one or more warnings are present in this procedure



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.

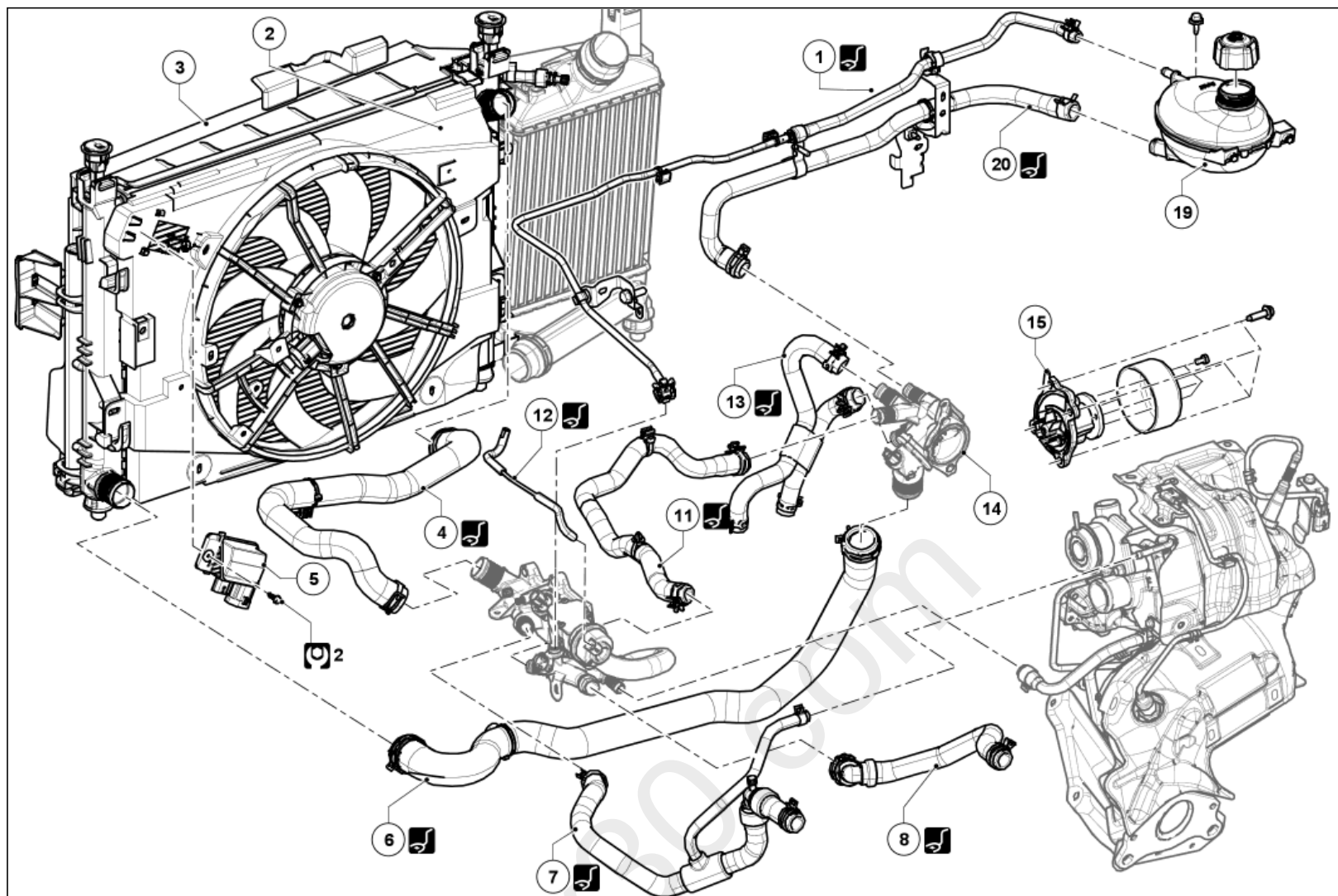


Illustration key: [Description](#) .

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