



Repair-10x06x05x06-01x37-1-3-1.xml



XSL version : 3.02 du 22/07/11

mcx30.com

COOLING RADIATOR: REMOVAL - REFITTING



Note, one or more warnings are present in this procedure



Special tooling required

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 $-25^{\circ}\text{C} \pm 2$ for cold and temperate countries,
- protection down to $-40^{\circ}\text{C} \pm 2$ for "extreme cold" countries.



CAUTION

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

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

REMOVAL

1. REMOVAL PREPARATION OPERATION

- Position the vehicle on a two-post lift [Vehicle: Towing and lifting](#) .
- Disconnect the battery [Battery: Removal - Refitting](#) .
- Remove the engine undertray.
- Remove the intercooler air outlet pipe [Air inlet assembly: Exploded view](#) .
- Unclip the intercooler air inlet pipe from the intercooler [Air inlet assembly: Exploded view](#) .
- Move aside the intercooler air outlet pipe.
- Remove:
 - the front wheels [Front hub carrier assembly: Exploded view](#) ,
 - the front section of the front wheel arch liners [Exterior body front trim assembly: Exploded view](#) ,
 - the front bumper [Front bumper assembly: Exploded view](#) ,
 - the headlights [Front signals - lighting assembly: Exploded view](#) ,
 - the engine cooling fan assembly [\(see 19A, Cooling, Coolant circuit assembly: Exploded view\)](#) .

2. REMOVAL OPERATION

- Separate the clips using the tool Remote operation pliers for hose clips. (Mot. 1448) from [\(see 19A, Cooling, Coolant circuit assembly: Exploded view\)](#) :
 - the cooling radiator inlet pipe,
 - the cooling radiator outlet pipe.
- Disconnect [\(see 19A, Cooling, Coolant circuit assembly: Exploded view\)](#) :