

- the cooling radiator inlet pipe,

the cooling radiator outlet pipe.

Remove the intercooler [Air inlet assembly: Exploded view](#) .

Remove the cooling radiator upwards ([see 19A, Cooling, Coolant circuit assembly: Exploded view](#)) .

REFITTING

1. REFITTING OPERATION

Refit the cooling radiator ([see 19A, Cooling, Coolant circuit assembly: Exploded view](#)) .

Proceed in the reverse order to removal.

Fill and bleed the cooling system ([see 19A, Cooling, Cooling system: Draining - Refilling](#)) .



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COOLINGRADIATOR:REPAIR



Note, one or more warnings are present in this procedure



Special tooling required

Remote operation pliers for hose clips.

Mot. 1448



WARNING

Before carrying out any operation on a vehicle fitted with the Stop & Start system, always follow the safety instructions [Vehicle: Precautions for the repair](#) .

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

▣ Before starting any operation check that the radiator is undamaged (not drilled, distorted or shocked); there may be a risk of further leaking.



Note:

This repair method is applicable to the cooling radiator and also to the intercooler.

▣ Equipment required to carry out the repairs:

- Plastic repair kit [Vehicle: Parts and consumables for the repair](#) ,
- Radiator pin repair kit [Vehicle: Parts and consumables for the repair](#) .

REPAIR

1. REPAIR PREPARATION OPERATION

▣ Position the vehicle on a two-post lift [Vehicle: Towing and lifting](#) .

▣ Disconnect the battery [Battery: Removal - Refitting](#) .

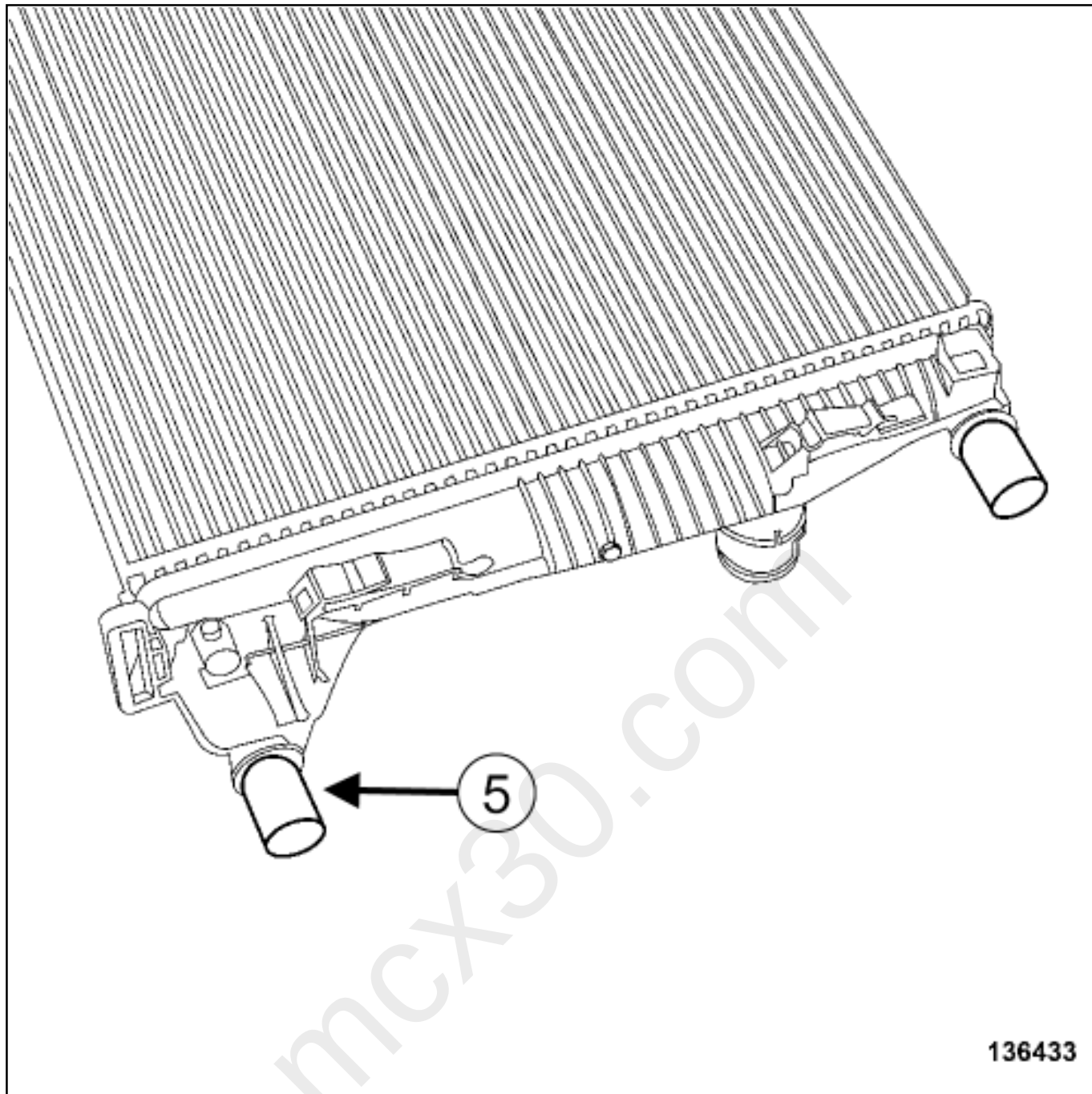
▣ Remove the engine undertray.

- 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 [\(see 19A, Cooling, Coolant circuit assembly: Exploded view\)](#) .
- 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 [\(see 19A, Cooling, Coolant circuit assembly: Exploded view\)](#) :
 - the cooling radiator inlet pipe,
 - the cooling radiator outlet pipe.
- Remove the intercooler [Air inlet assembly: Exploded view](#) .
- Remove the radiator [\(see 19A, Cooling, Cooling radiator: Removal - Refitting\)](#) .

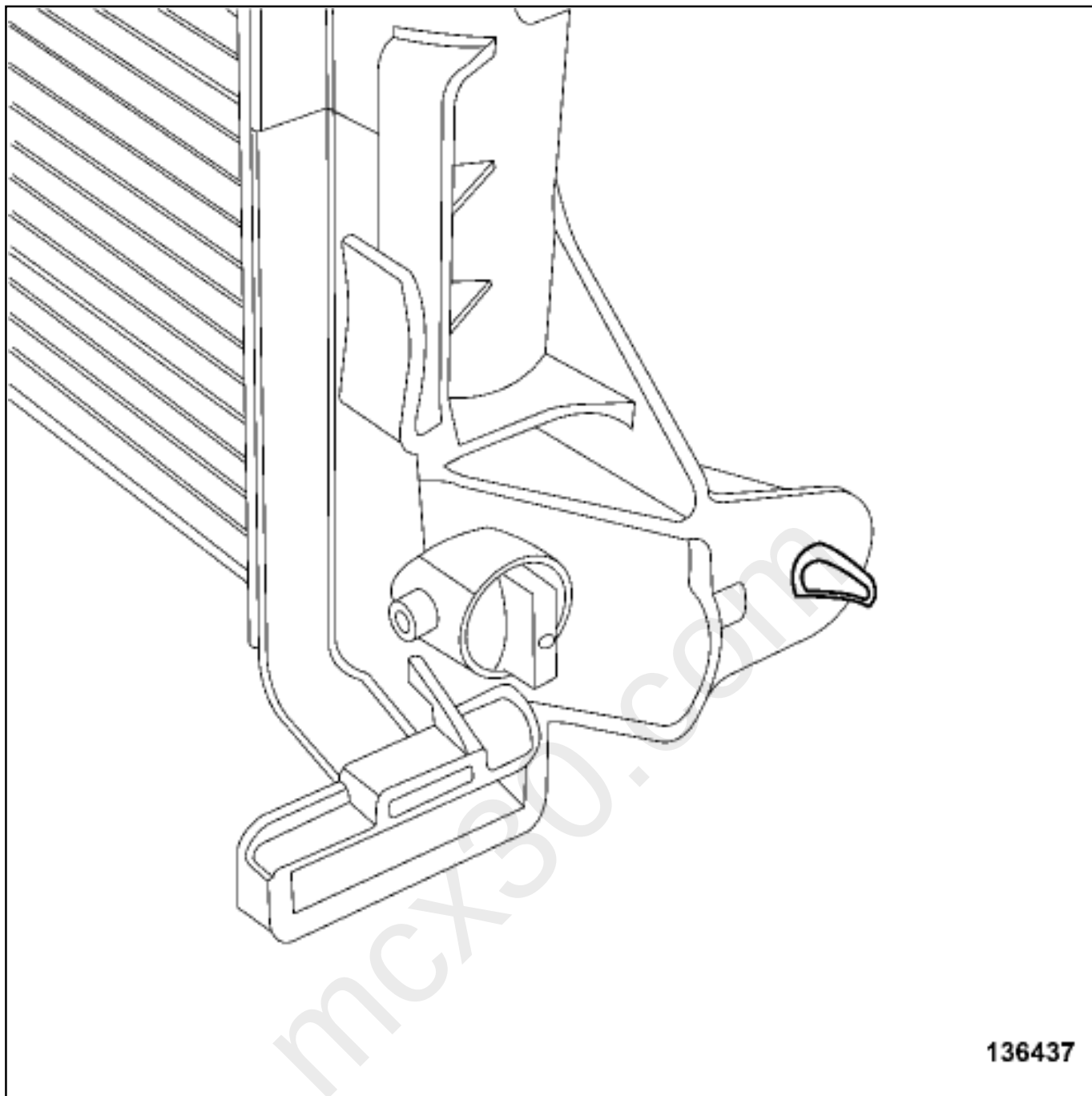
2. REPAIR OPERATION

1- COOLING RADIATOR MOUNTING PIN REPLACEMENT

1) PREPARING THE SURFACES FOR BONDING



Remove the damaged mounting pin from the cooling radiator(1)



Cut the remaining section of the cooling radiator mounting pin on the cooling radiator.

File down the base of the cooling radiator mounting pin to obtain a flat surface.

Sand the areas to be bonded using 80 gritsandpaper (dry).

Using plastic repair kit, clean the surfaces of the replacement mounting pin from the pin repair kit and clean the radiator base.



Wipe the surfaces using a lint-free cloth and blow with air.

2) BONDING



Apply the adhesive primer contained in the plastic repair kit.



Leave to dry (see product technical sheet).



Extrude:



20 mm of bead in order to obtain a homogenous mixture of the product before application,



the adhesive mixture on the base of the radiator and on the base of the replacement mounting pin (pin repair kit).



Position the replacement mounting pin on the base of the radiator and leave to dry (see product technical sheet).

3. FINAL OPERATION



Refit the radiator ([see 19A, Cooling, Cooling radiator: Removal - Refitting](#)).



Proceed in the reverse order to removal.



Fill and bleed the cooling system ([see 19A, Cooling, Cooling system: Draining - Refilling](#)).