

COOLINGRADIATOR:REPAIR



Note, one or more warnings are present in this procedure



Equipment required

safetystrap(s)



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 .

- 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.

- 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 .

1. REPAIR PREPARATION OPERATION

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

WARNING

DANGER: HIGH VOLTAGE VEHICLE.



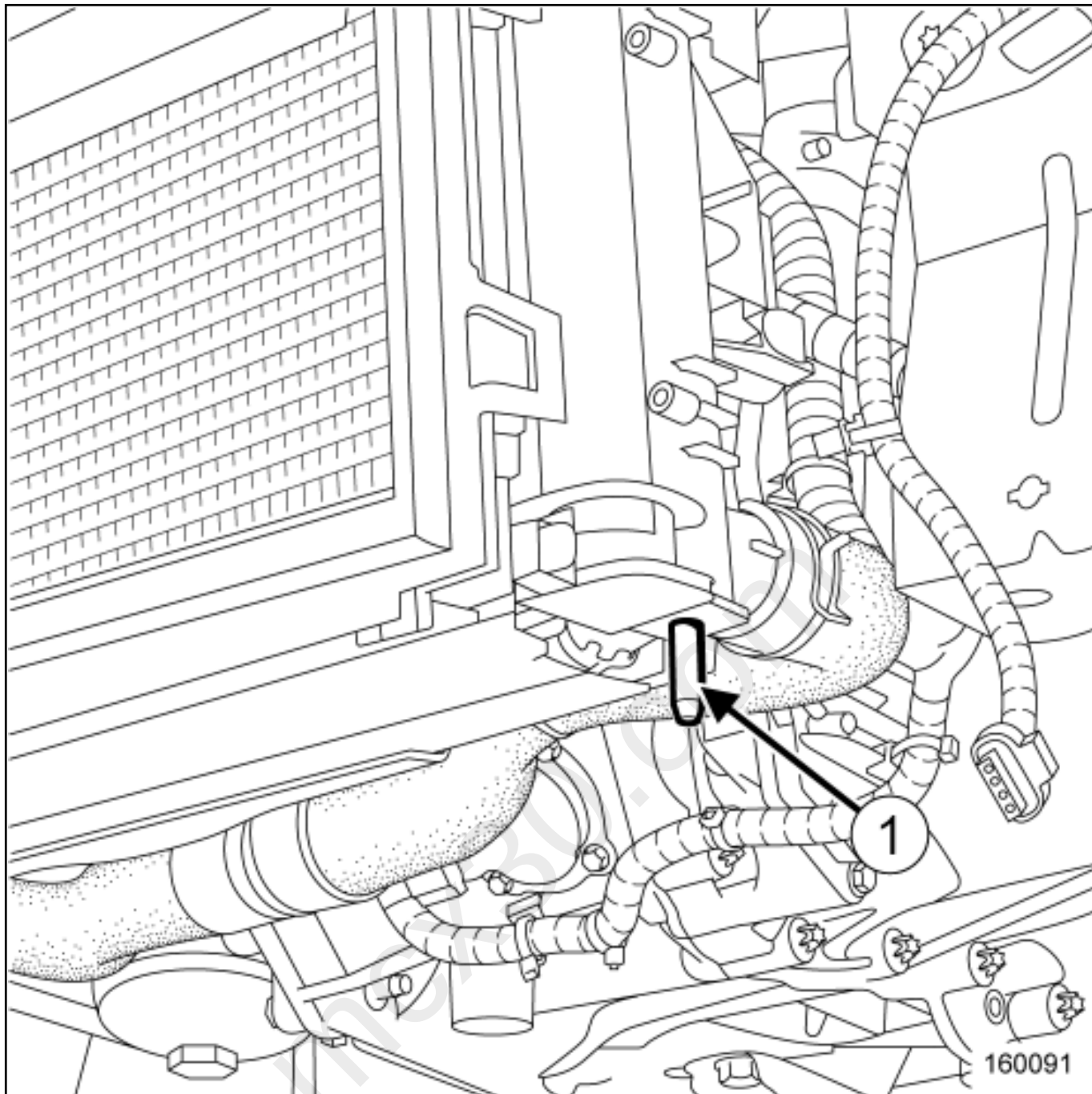
Risks of serious burns or electric shocks that may prove fatal.

Before carrying out any work on the vehicle, it is essential that you follow the instructions regarding vehicle lockout. This work must be carried out by an employee who is qualified and authorised to work on a high-voltage onboard network [Vehicle: Precautions for the repair](#) .

- Remove:
 - the engine undertray,
 - 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](#) .
- Strap the cooling radiator to the front end panel using the safety strap(s).
- Remove the radiator mounting cross member [Front axle assembly: Exploded view](#) .

2. REPAIR OPERATION

1- PREPARING THE SURFACES FOR BONDING



- Remove the damaged mounting pin from the cooling radiator
- Cut the remaining section of the cooling radiator mounting pin(1) 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.

- 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

- Proceed in the reverse order to removal.



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