

HYDRAULIC BRAKE UNIT: REMOVAL - REFITTING



Note, one or more warnings are present in this procedure



Equipment required

Diagnostic tool

pedal press

WARNING



■ To avoid all risk of damage to the systems, apply the safety and cleanliness instructions and operation recommendations before carrying out any repair:

- [\(see 38C. Anti-lock braking system, ABS: Precautions for the repair\)](#) ,
- [Vehicle: Precautions for the repair](#) .



CAUTION

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

Location and specifications (tightening torques, parts always replaced, etc.) [Braking control assembly: Exploded view](#) .

REMOVAL

1. REMOVAL PREPARATION

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

WARNING

DANGER: HIGH VOLTAGE VEHICLE.

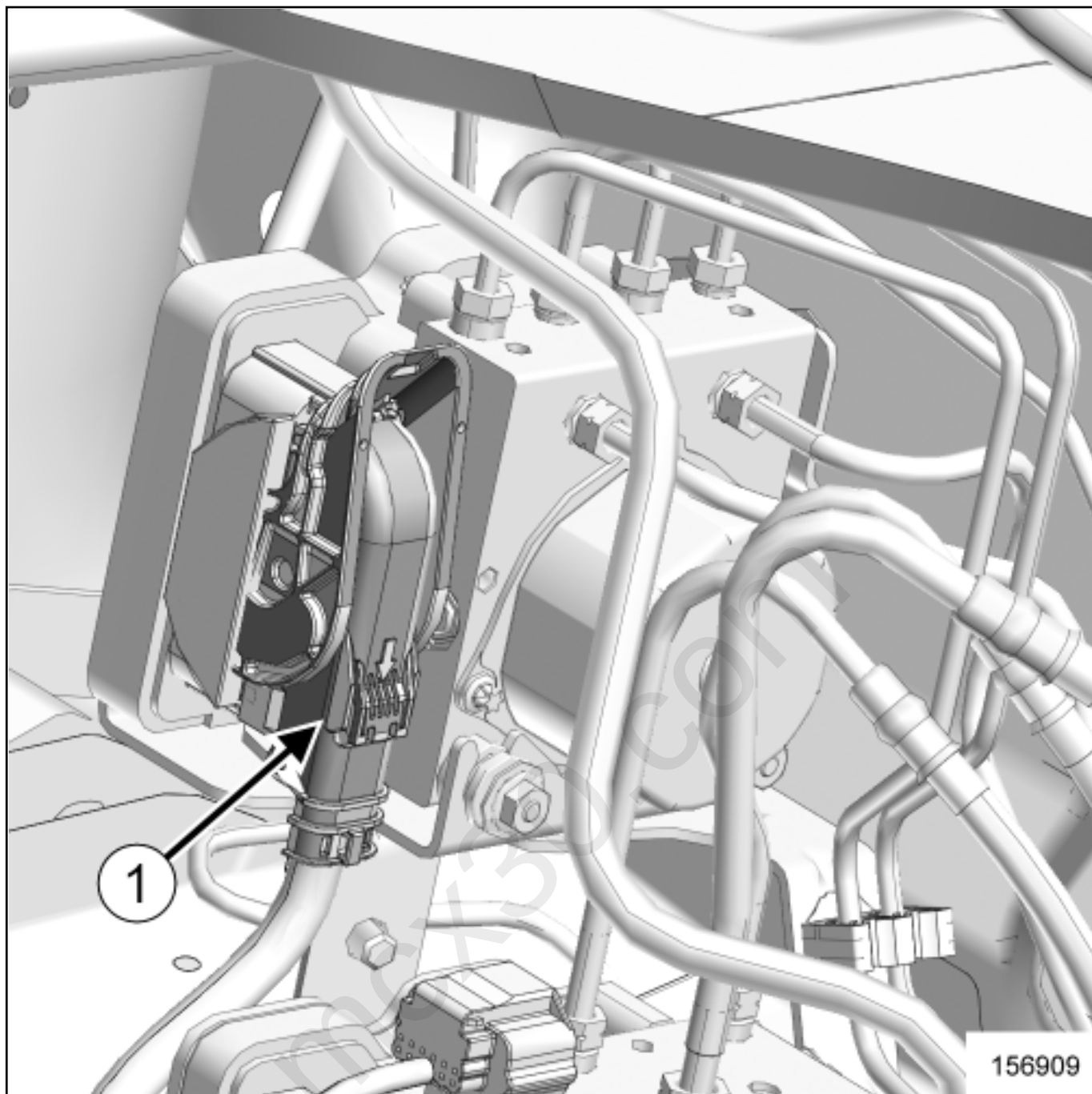


Risks of serious burns or electric shocks that may prove fatal.

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 lockout of the vehicle [Vehicle: Lockout - Removal of lockout](#) .
- Remove the engine undertray.
- Drain the cooling system [Cooling system: Draining - Refilling](#) .
- Remove:
 - the windscreen wiper arms [Wiping and washing: List and location of components](#) ,
 - the scuttle panel grille [Scuttle panel grille: Removal - Refitting](#) ,
 - the scoop under the centre section of the scuttle panel grille [Scoop under the scuttle panel grille: Removal - Refitting](#) ,
 - the electric vehicle charger [Electric vehicle charger assembly: Exploded view](#) .
- Position a pedal press on the brake pedal to limit the outflow of brake fluid.

2. REMOVAL OPERATION



- Disconnect the connector(1) from the hydraulic brake unit.
- Undo the hydraulic brake unit pipe unions.
- Fit blanking plugs on the openings of the hydraulic brake unit and brake pipes.
- Loosen the hydraulic brake unit nuts on its support [Braking control assembly: Exploded view](#) .
- Remove the hydraulic brake unit.

1. REFITTING OPERATION

**CAUTION**

Do not remove the blanking plugs from each component until the last moment.

Also, do not remove the components from their packaging until they are to be fitted to the vehicle.

- ▣ Proceed in the reverse order to removal.
- ▣ Lockout the vehicle [Vehicle: Lockout - Removal of lockout](#) .
- ▣ Remove the pedal press from the brake pedal.
- ▣ Bleed the brake circuit [Braking circuit: Bleed](#)
- ▣ Apply the after repair procedure using the Diagnostic tool [Diagnostic tool : Use](#) :
 -Computer concerned by the After repair procedure:
 - "ABS-ESP computer".



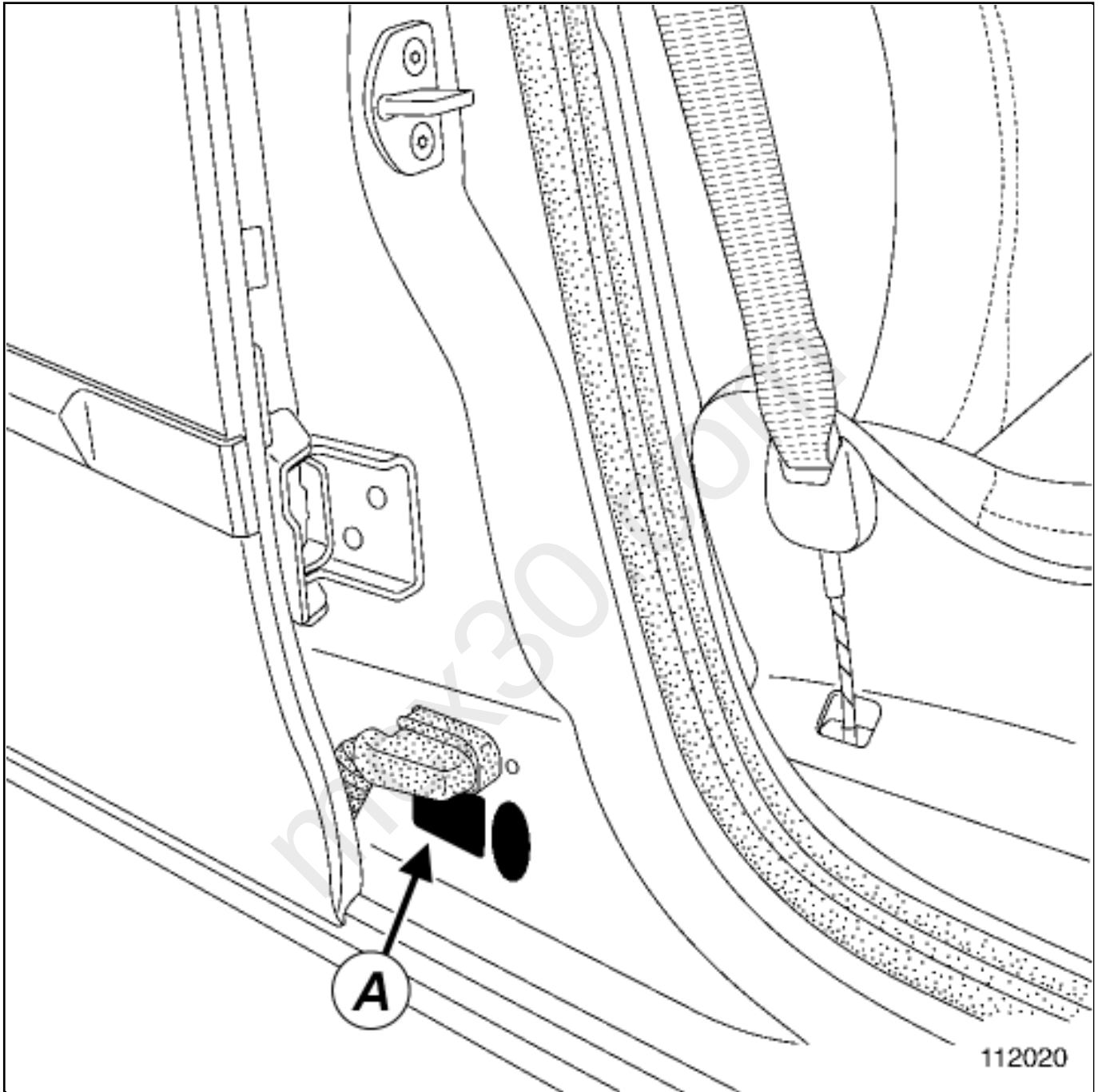
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IDENTIFICATION

1. LOCATIONS OF THE VEHICLE IDENTIFICATION PLATE



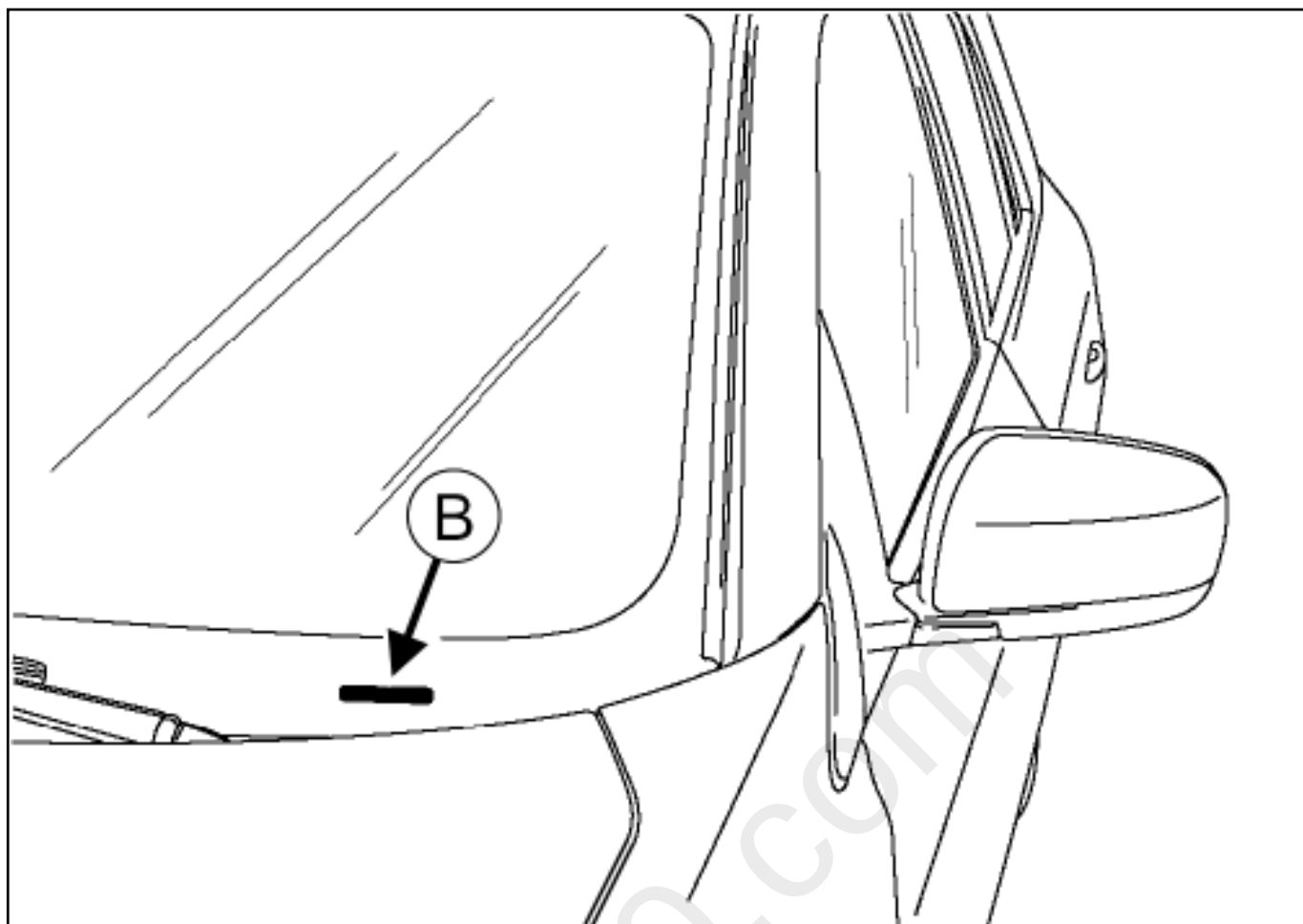
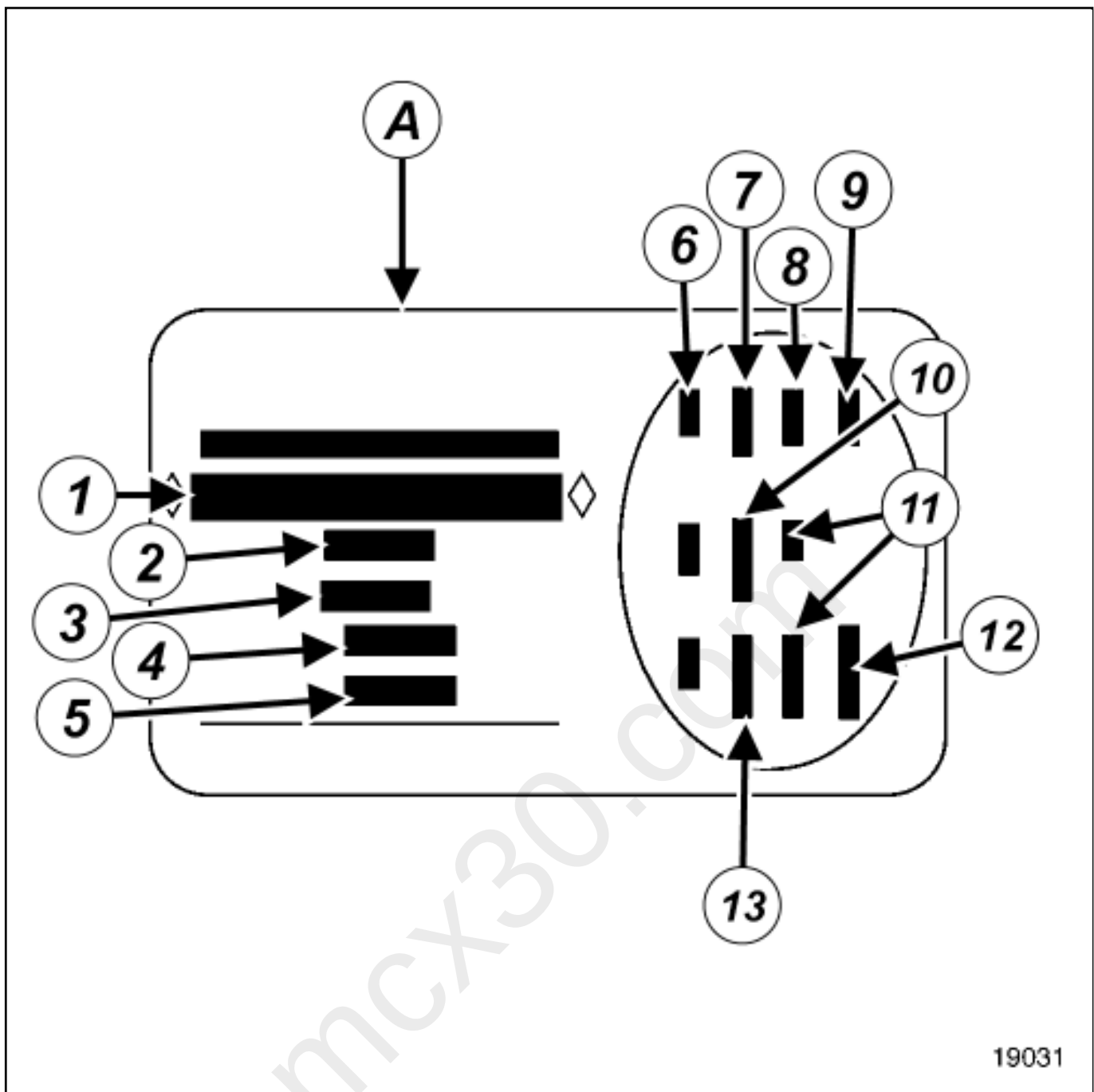


PLATE (A):



19031

(1) Vehicle type mine and type number; this information also appears on marking (B)

(2) MGW (Maximum Gross Vehicle Weight)

(3) GTW (Gross train weight, vehicle under load with trailer)

(4) Maximum permissible front axle load

(5) Maximum permissible rear axle load

(6) Vehicle technical specifications

(7) Paintwork reference number

(8) Equipment level

(9) Vehicle type

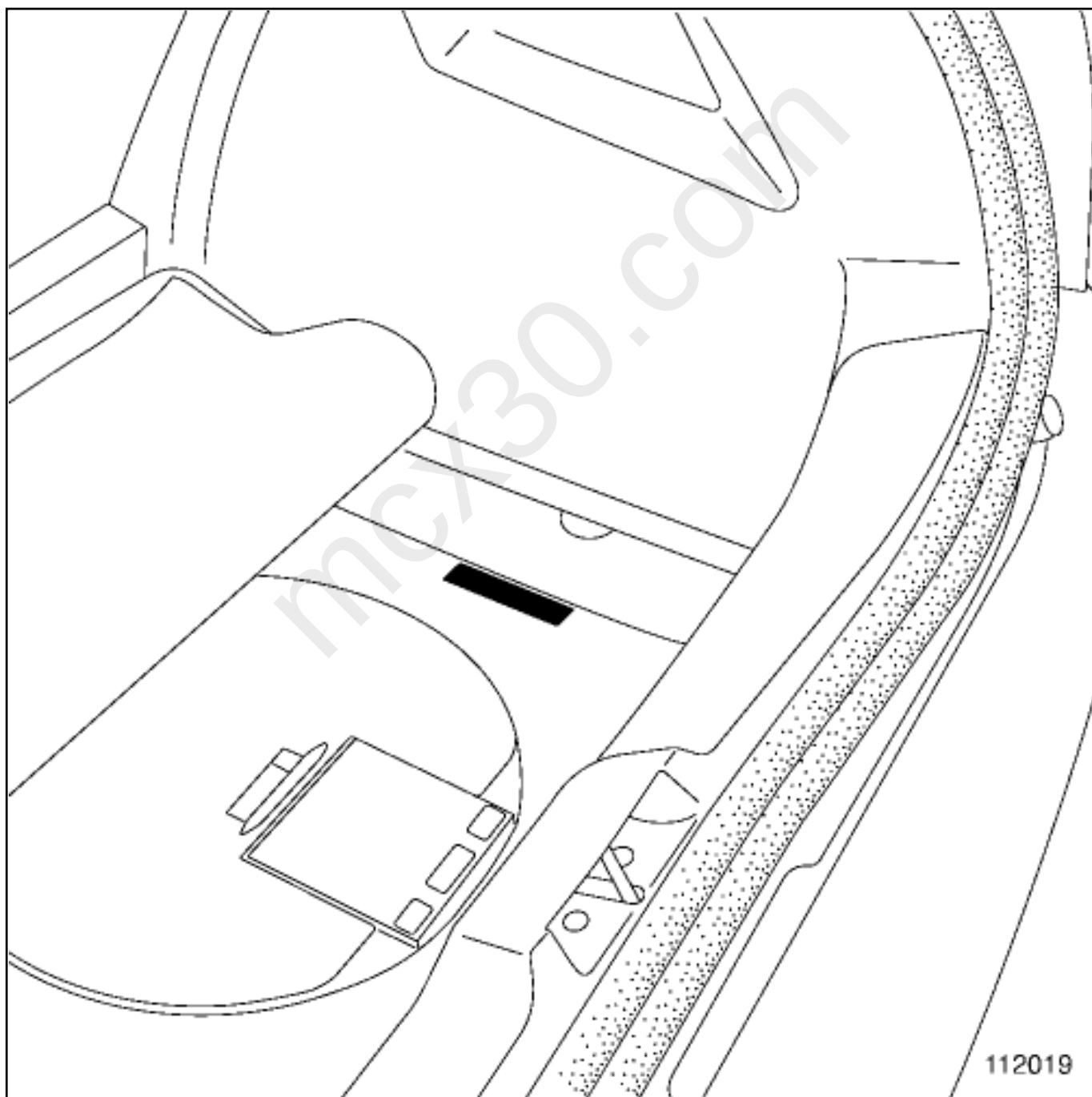
(10) Upholstery code

(11) Additional equipment details

(12) Fabrication number

(13) Interior trim code

2. COLD-MARKING OF THE BODY



Note:



If the complete body is being replaced, it must be marked in compliance with the current regulations.



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