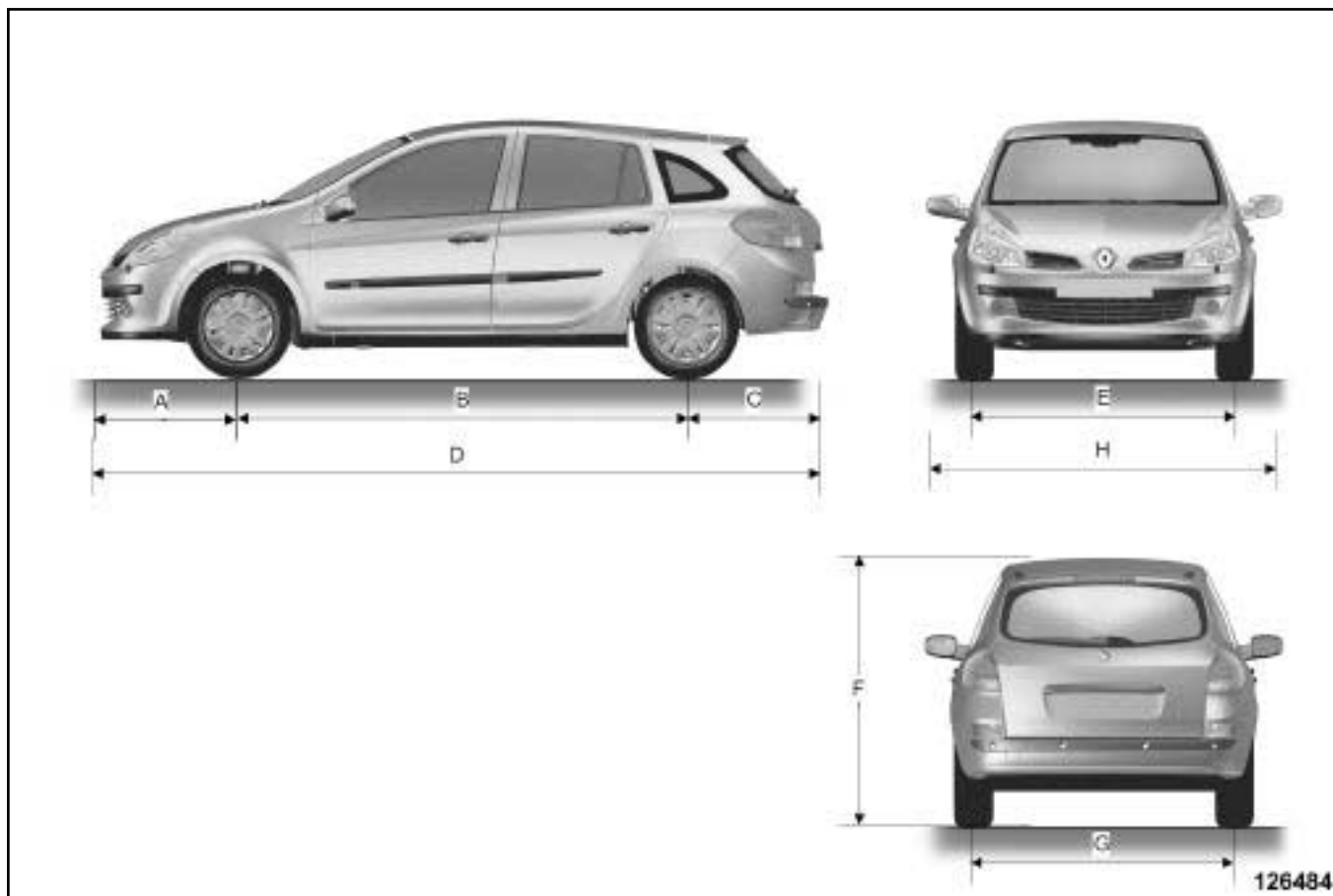


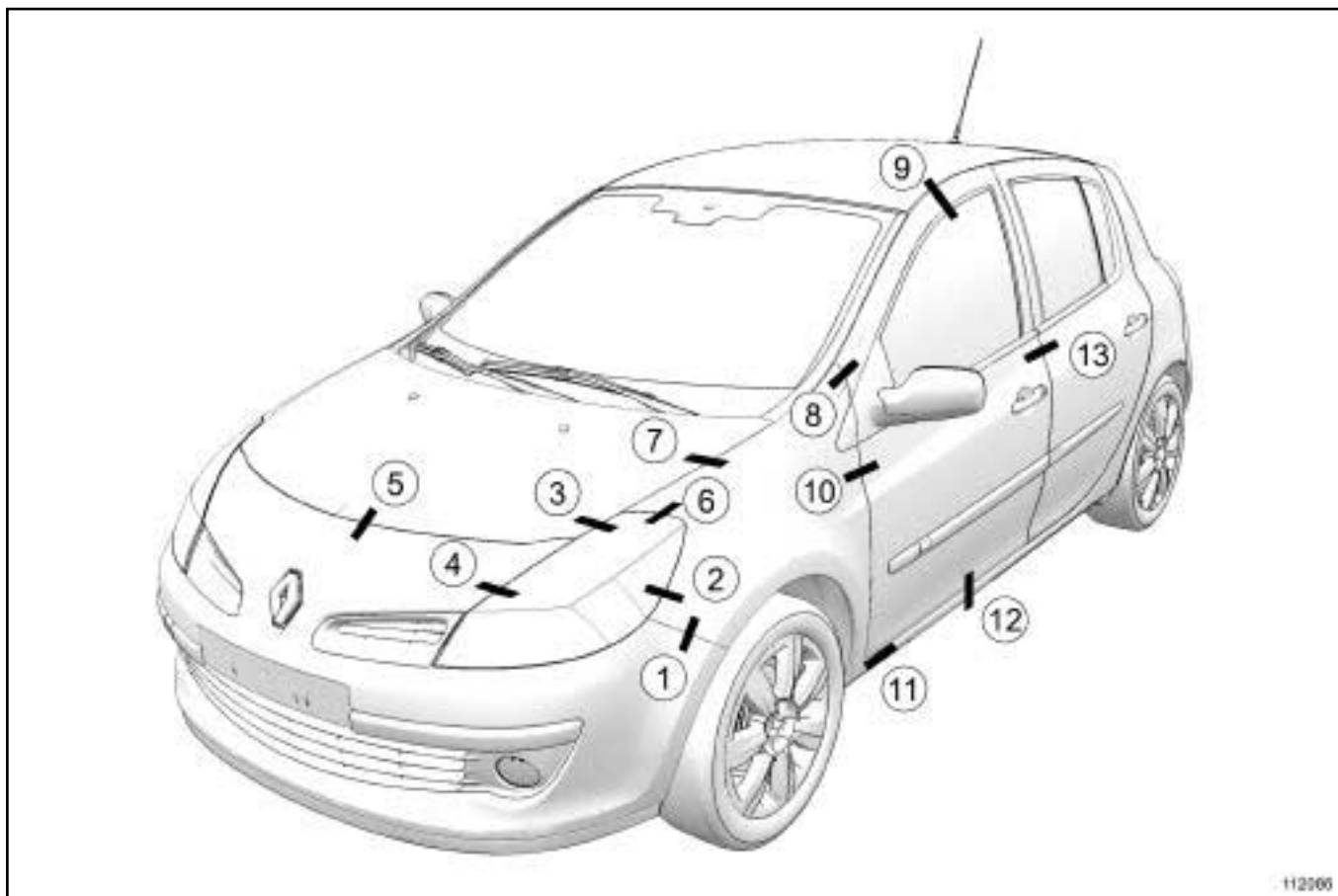
K85



126484

Dimensions in metres :

	all models except Clio RS	Clio RS only	Clio Estate	all Clio phase 2 models except Clio RS
A	0.805	0.800	0.805	0.805
B	2.575	2.585	2.575	2.575
C	0.606	0.606	0.822	0.621
D	3.986	3.991	4.203	4.017
E	1.472 (165/65 R15 81T and 195/50 R16 88V)	1.520	1.472	1.472
	1.458 (185/60 R15 84H)		1.458	1.458
F (unladen)	1.497	1.484	1.497	1.497



112066

112086

WARNING

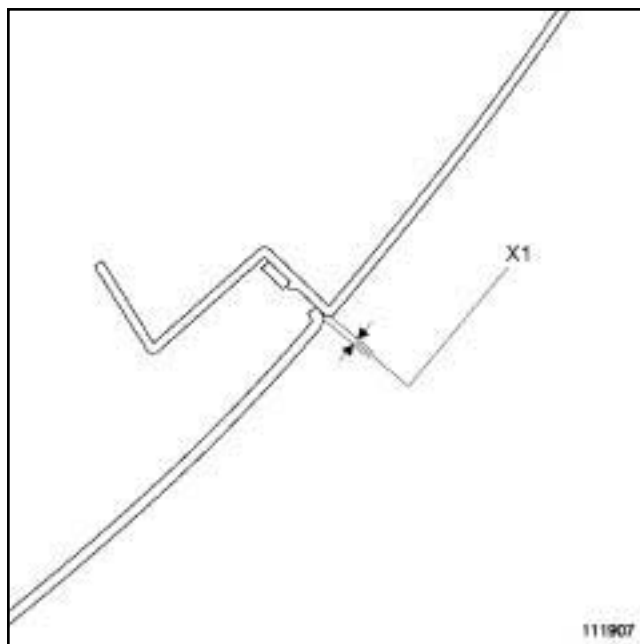
The clearance values are given for information purposes.

Certain rules have to be followed when clearances are adjusted:

- maintain symmetry in relation to opposite side,
- ensure the flush fitting is correct,
- check correct operation of the opening, and water- and airtightness.

All values are given in millimetres.

Section 1



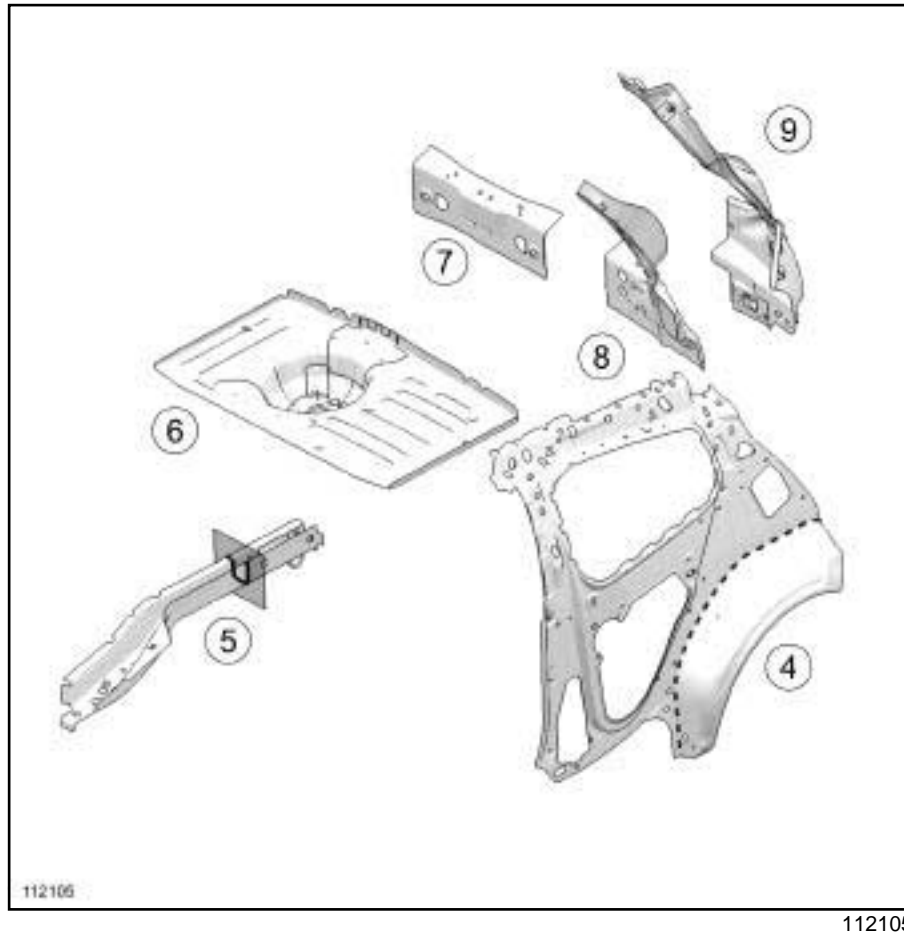
111907

111907

(X1) = 0.75 mm ± 0.75

Vehicle involved in a rear impact: Description

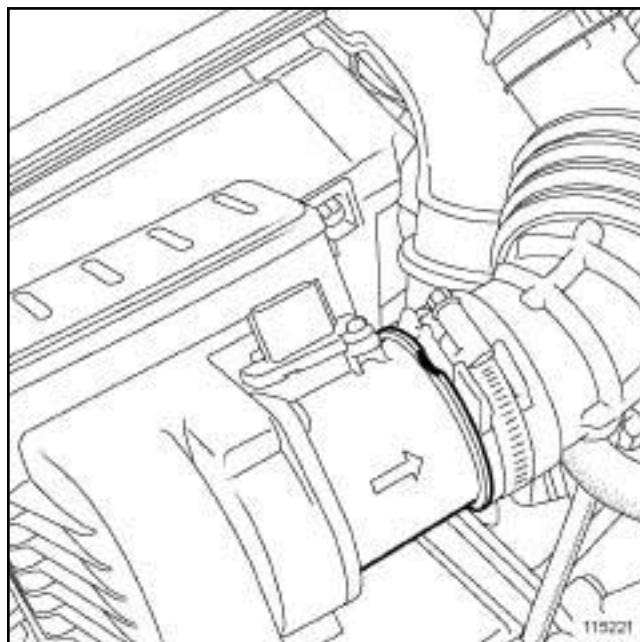
C85 or S85

2nd degree

- (4) Outer rear wheel arch
- (5) Rear section of rear side member
- (6) Rear floor rear section
- (7) Rear end panel lining
- (8) Rear light mounting lining
- (9) Rear light mounting

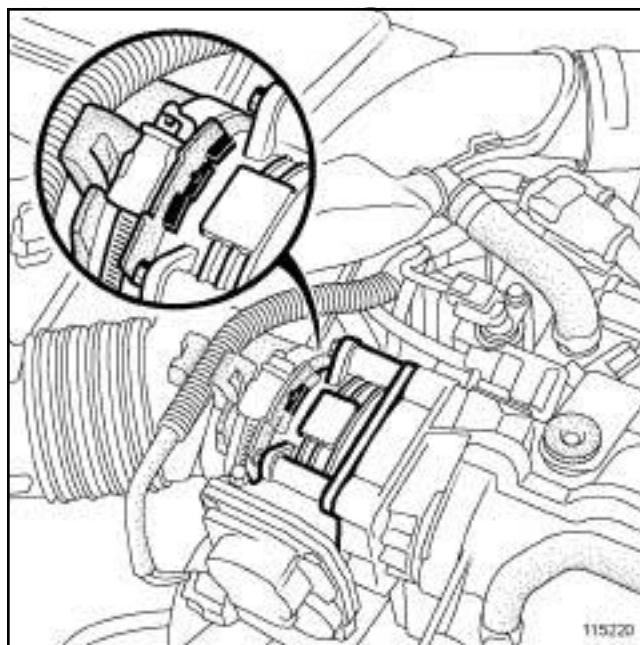
M4R, and TL4

- the radiator mounting cross member (see **Radiator mounting cross member: Removal - Refitting**) (41A, Front lower structure),
- the air conditioning pipes,
- the air conditioning pipe bolts.
- Connect the compressor-intermediate pipe connecting pipe on the compressor.
- Refit the bolt to the compressor-intermediate pipe connecting pipe on the compressor.
- Torque tighten the **compressor-intermediate pipe connecting pipe bolt on the compressor (8 N.m)**.
- Connect the dehydrator reservoir-expansion valve connecting pipe on the dehydrator reservoir.
- Refit the dehydrator reservoir-expansion valve connecting pipe bolt on the dehydrator reservoir.
- Torque tighten the **dehydrator reservoir - expansion valve connecting pipe bolt on the dehydrator reservoir (8 N.m)**.
- Refit:
 - the compressor-condenser connecting pipe,
 - the condenser-compressor connecting pipe bolt on the compressor,
 - the compressor-condenser connecting pipe bolt on the condenser.
- Tighten to torque:
 - the **compressor-condenser connecting pipe bolt on the compressor (8 N.m)**,
 - the **compressor-condenser connecting pipe bolt on the compressor (8 N.m)**.
- Refit:
 - the front end panel air resonator (see **12A, Fuel mixture, Air resonator: Removal - Refitting**, page **12A-10**),
 - the front impact cross member (see **Front impact cross member: Removal - Refitting**) (41A, Front lower structure),
 - the headlights (see **Headlight: Removal - Refitting**) (80B, Headlights),
 - the front bumper (see **Front bumper: Removal - Refitting**) (55A, Exterior protection),
 - the front section of the front wheel arch liners (see **Front wheel arch liner: Removal - Refitting**) (55A, Exterior protection),
 - the front wheels (see **Wheel: Removal - Refitting**) (35A, Wheels and tyres).



115221

- Refit the air filter unit air outlet pipe on the air flow-meter, taking care to follow the markings for fitting.



115220

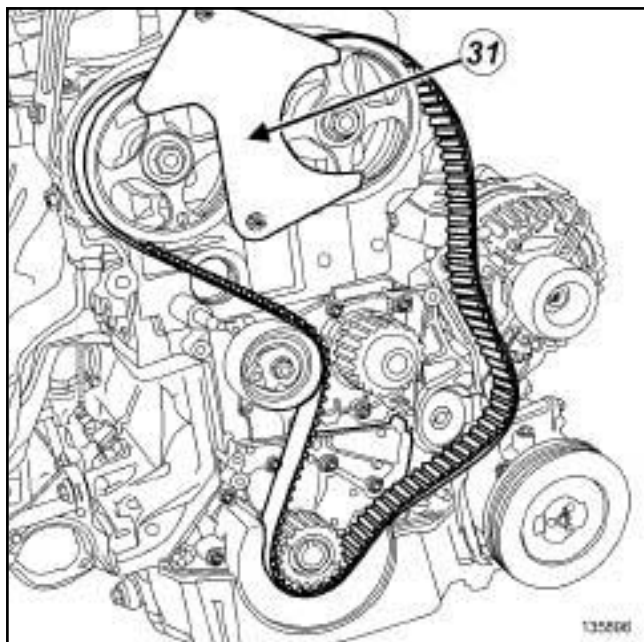
- Refit the air filter unit air outlet pipe on the motorised throttle valve, taking care to follow the markings for fitting.
- Connect the oil vapour rebreathing hose on the rocker cover.
- Fit the oil vapour rebreathing hose clip onto the rocker cover using the tool (**Mot. 1448**).
- Torque tighten the **air filter box air outlet pipe clips (6 N.m)**.

TOP AND FRONT OF ENGINE

Timing belt: Removal - Refitting

11A

K4J



135896

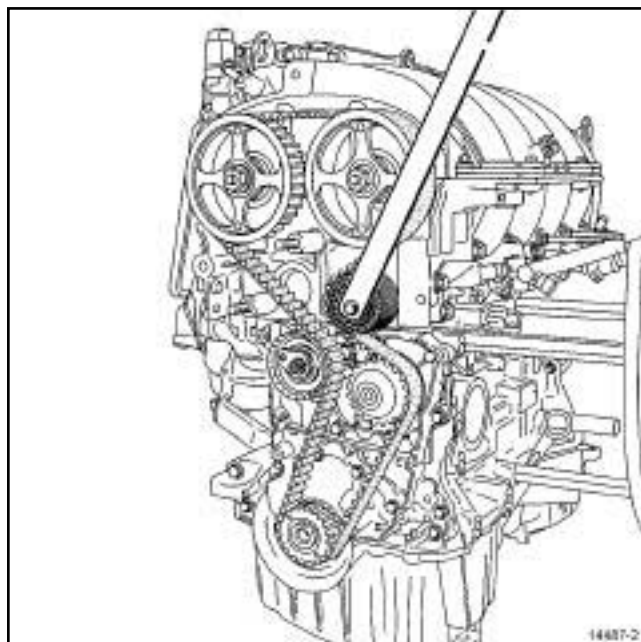
- Refit a new timing belt starting with the sprocket of each camshaft (without moving the sprocket of each camshaft).
- Fit the tool (**Mot. 1490-01**) (31) on the camshaft sprockets (use the bolt and nut of the upper timing cover to fit the tool (**Mot. 1490-01**)).

Note:

Take care to properly tighten the timing belt between the two camshaft sprockets.

Note:

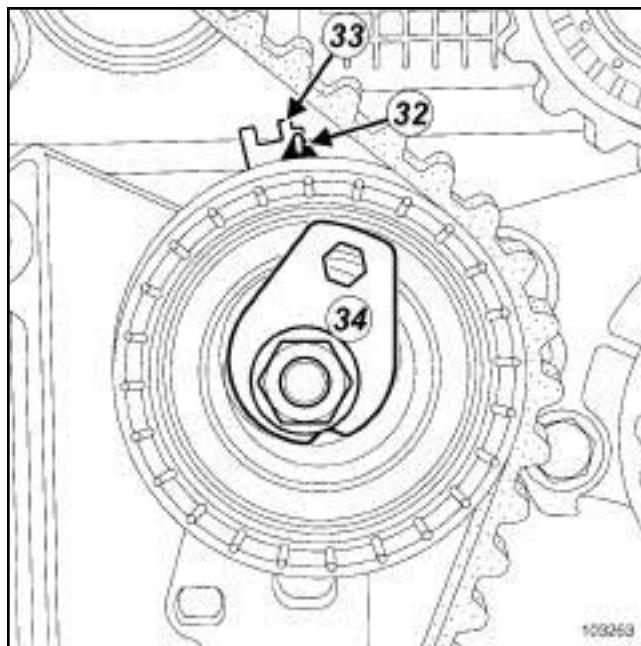
If the engine is equipped with a crankshaft timing sprocket with a collet, take care to properly tighten the timing belt between the exhaust camshaft sprocket and the crankshaft timing sprocket.



14487-2

- Refit a new timing fixed roller.
- Torque tighten the **timing fixed roller bolt (50 N.m)** using the tool (**Mot. 1368**).

3 - Timing belt tension



103263

- Position the adjustable index (32) opposite the mark (33), by turning the eccentric (34) clockwise using an Allen key.
- Torque tighten the **timing tensioning roller nut (7 N.m)**.

TOP AND FRONT OF ENGINE

Cylinder head: Removal - Refitting

11A

F4R, and 830

REFITTING

I - REFITTING PREPARATIONS OPERATION

1 - CLEANING THE CYLINDER HEAD

- Clean the cylinder head.

IMPORTANT

Wear goggles with side protectors for this operation.

IMPORTANT

Wear latex gloves during the operation.

WARNING

Do not scratch the aluminium joint faces: any surface damage to the joint faces may cause leaks.

WARNING

The joint faces must be clean, dry and free from grease (avoid finger marks).

WARNING

Do not allow this product to drip onto the paintwork.

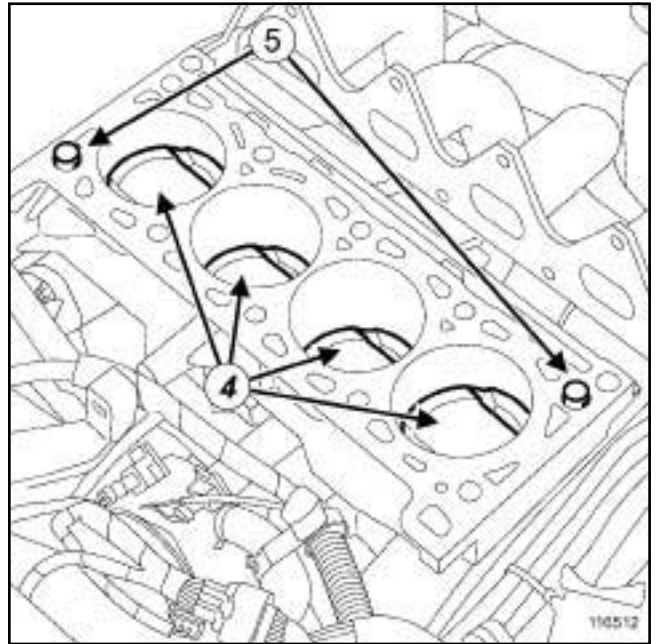
Clean the cylinder head carefully to prevent foreign bodies from entering the oil supply and return galleries.

Failure to follow this advice could lead to the blocking of the various oil inlet galleries, which would quickly result in engine damage.

- Clean the joint faces with **SUPER CLEANER FOR JOINT FACES** to dissolve any part of the seal still remaining on the cylinder head and cylinder block.

Apply the product to the part to be cleaned, wait approximately ten minutes then remove the residue with a wooden spatula.

2 - PREPARING TO FIT THE CYLINDER HEAD



116512

- Place the pistons at (4) half stroke.
- Check that the centring devices (5) are present and in good condition on the cylinder block.

II - REFITTING OPERATION FOR PART CONCERNED

- Refit:
 - the new cylinder head gasket,
 - the cylinder head,
 - the new cylinder head bolts.

High pressure pipe between rail and injector: Removal - Refitting

K9K, and 764 or 772

Special tooling required

Mot. 1746	Offset wrench for tightening High Pressure pump pipes.
Mot. 1566	Tool for removing high pressure pipes.

Equipment required

Diagnostic tool

Tightening torques

injection rail mounting nuts	28 Nm
high-pressure pipe nuts	24 Nm
mounting nut of the air pipe at the intercooler inlet on the alternator	8 Nm

WARNING

Before starting work on the vehicle, make sure you have:

- a new blanking plug kit (**part no. 77 01 476 857**),
- cleaning wipes (**part no. 77 11 211 707**),
- cleaning product (**part no. 77 11 224 188**).

WARNING

Parts always to be replaced:

- all the high-pressure pipes which have been removed.

REMOVAL

I - REMOVAL PREPARATION OPERATION

- Position the vehicle on a lift (see **Vehicle: Towing and lifting**) .

- Switch off the ignition and wait **30 seconds** before starting work on the injection system.

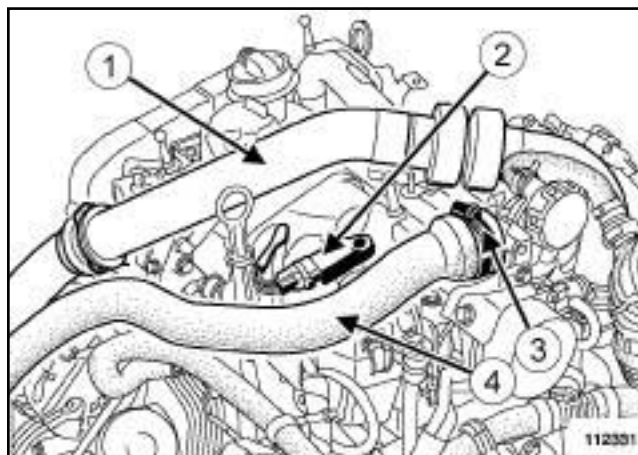
IMPORTANT

Before carrying out any work on the injection system, check using the **Diagnostic tool** :

- that the rail is not under pressure,
- that the fuel temperature is not too high.

It is essential to respect the safety and cleanliness advice whenever work is carried out on this system (see **13B, Diesel injection, Diesel injection: Precautions for the repair, page 13B-1**) .

- Disconnect the battery (see **Battery: Removal - Refitting**) .
- Remove the engine cover.



112331

- Remove the upper part (1) of the turbocharger duct
- Disconnect the air inlet pressure sensor (2)
- Loosen the clip (3) .
- Move the inlet duct to one side (4) .

Exhaust: Precautions for the repair

Special tooling required

Mot. 1199-01	Exhaust pipe cutter (diameter 35/50 mm and diameter 50/65mm). Complete kit in a case.
---------------------	---

I - PARTS AND CONSUMABLES FOR THE REPAIR

1 - Parts always to be replaced:

- the exhaust trunking (if fitted)
- the seal or sealing ring on the connection between the catalytic converter or catalytic pre-converter and the rest of the exhaust system
- the exhaust clip(s) (if fitted)

2 - Consumables (see part no. in Technical Note 5068, 04B, Consumables - Products):

- exhaust mastic
- surface cleaner
- abrasive pads

II - ADVICE TO OBSERVE

IMPORTANT

Do not park and run the engine in a place where combustible substances and materials such as grass or leaves can come into contact with the hot exhaust system.

IMPORTANT

Catalytic converters contain ceramic fibres, these are contained within a closed unit, and cannot disperse. Drilling or cutting catalytic converters is prohibited.

1 - During removal and refitting, the catalytic converter or catalytic pre-converter must not receive any knocks or impacts as this could damage it.

2 - The whole exhaust pipe is made of stainless steel.

3 - After working on the bracket between the catalytic converter or catalytic pre-converter and the rest of the exhaust system, ensure that the connection is perfectly sealed.

To do this:

- clean the pressure faces of the connection using the **ABRASIVE PADS**,

- degrease the pressure faces of the connection using **SURFACE CLEANER** and clean cloths,
- always replace the seal or sealing ring on the connection.

III - SPECIAL NOTES ON THE SINGLE UNIT EXHAUST PIPE

1 - Cutting the single unit exhaust pipe

The exhaust pipe is a « single unit type » .

To replace different parts of the exhaust system it must be cut.

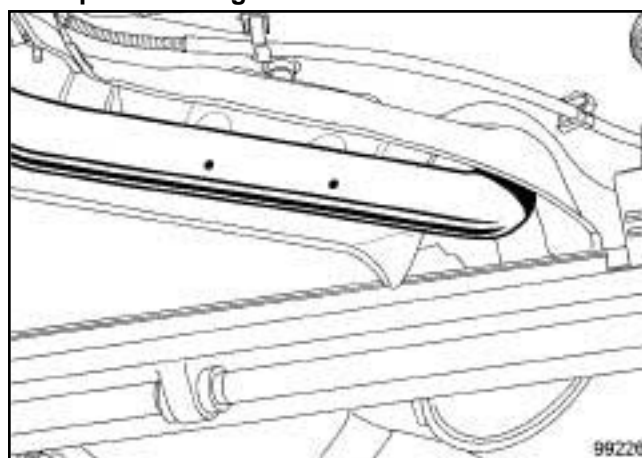
To do this be sure to carry out these precautions in the following order:

- correctly identify the area to be cut, as explained below,
- use the cutting tool correctly (**Mot. 1199-01**),
- position the exhaust trunking correctly.

2 - Identifying the area of the exhaust system to be cut

Two marks made on the exhaust system define the area to be cut (see **Exhaust: Parts and consumables for the repair**) (see MR for vehicle concerned, 19B, Exhaust).

Example of cutting area



99226

Rear axle assembly: Adjustment values

EQUIPMENT LEVEL E3 LEISURE or EQUIPMENT LEVEL EA1 or EQUIPMENT LEVEL EA2 or EQUIPMENT LEVEL EA3 or EQUIPMENT LEVEL EA4 or EQUIPMENT LEVEL EA5 or EQUIPMENT LEVEL EAG

I - PRELIMINARY OPERATIONS

Before checking the axles on the test bench, check the tyre pressures (see **35A, Wheels and tyres, Tyre pressure: Identification**, page **35A-15**).

WARNING

The vehicle should be empty (no luggage or passengers on board) when the axle assembly values are checked.

Make sure that the steering wheel is positioned straight ahead during wheel alignment, such that the angular position of the steering wheel is correctly aligned with the straight-ahead position of the front wheels. The steering wheel being offset in relation to the position of the wheels may result in the vehicle being returned by the customer.

Position of vehicle: Vehicle in running order

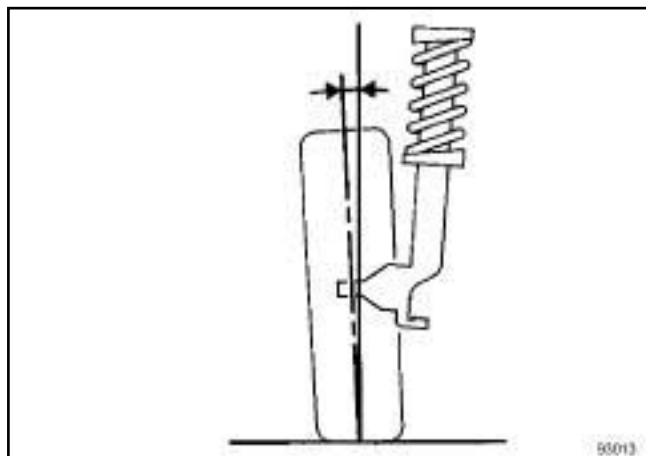
	Front in mm	Rear in mm
Underbody height	W1: 171 ± 13	W2: 259 ± 16

WARNING

Adjust the vehicle ground clearance in accordance with the specifications before checking the geometry of the wheels. If the ground clearance is not correct, adjust it by lowering or raising the body.

II - CAMBER

Not adjustable

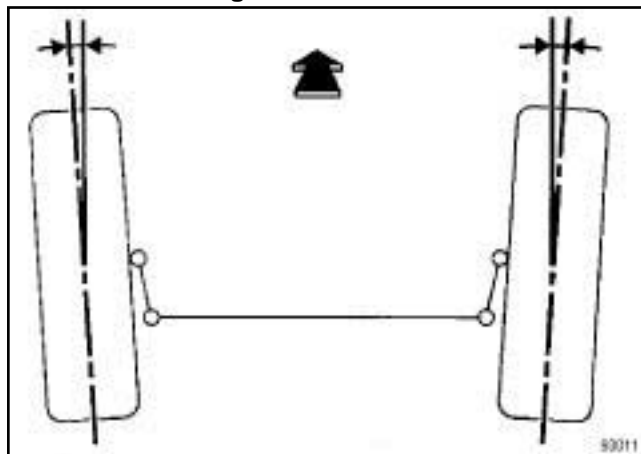


93013

Value	Position of vehicle
-1° 10' ± 25'	Vehicle in running order

III - WHEEL ALIGNMENT: MEANING OF SYMBOLS

Toe-out: minus sign

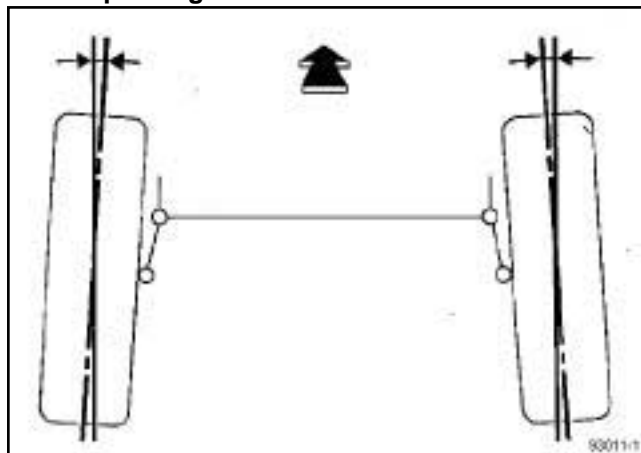


93011

WARNING

Meaning of signs featured in this document, - = toe-out.

Toe-in: plus sign



93011-1

WARNING

Meaning of signs used in this document, + = toe-in.

IV - WHEEL ALIGNMENT

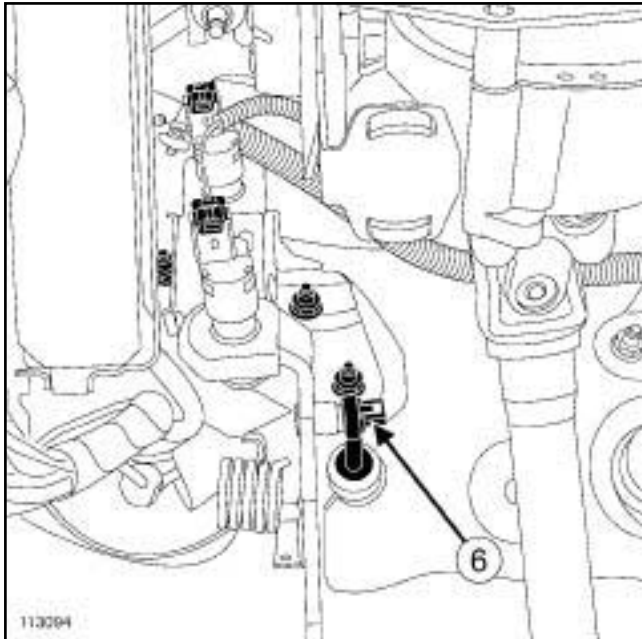
Not adjustable.

MECHANICAL COMPONENT CONTROLS

Clutch master cylinder: Removal - Refitting

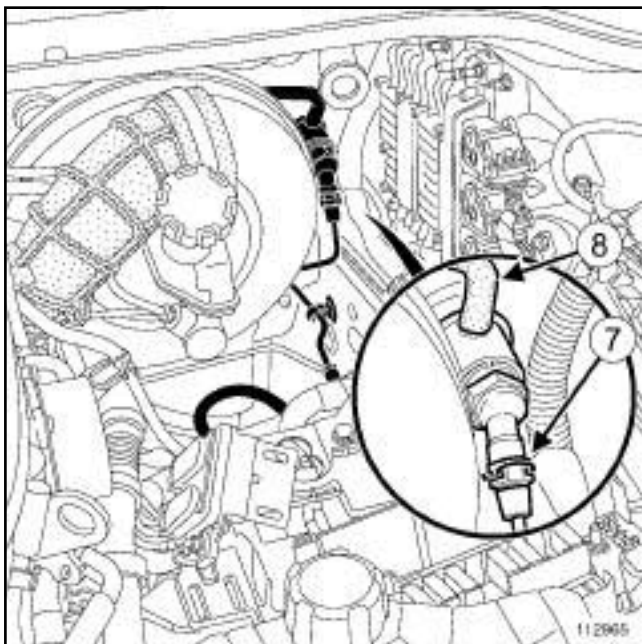
37A

LEFT-HAND DRIVE



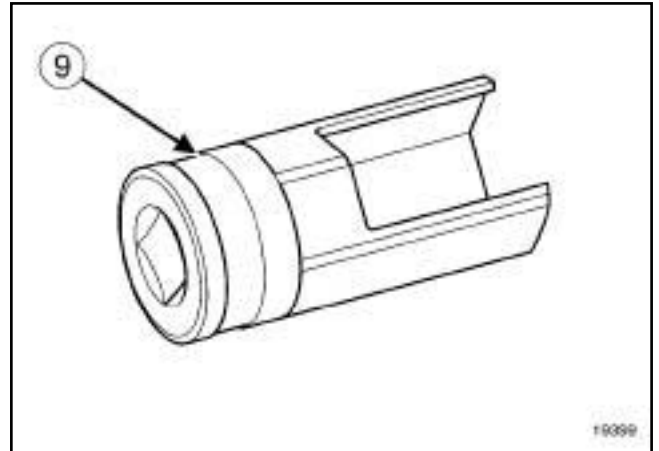
113094

- Uncouple the clutch pedal master cylinder ball joint (6) in the passenger compartment.
- Place a cloth under the master cylinder.



112865

- Lift the master cylinder clip (7) .
- Uncouple the pipe from the master cylinder.
- Disconnect the pipe (8) between the master cylinder and the brake fluid reservoir.
- Fit plugs to the openings.

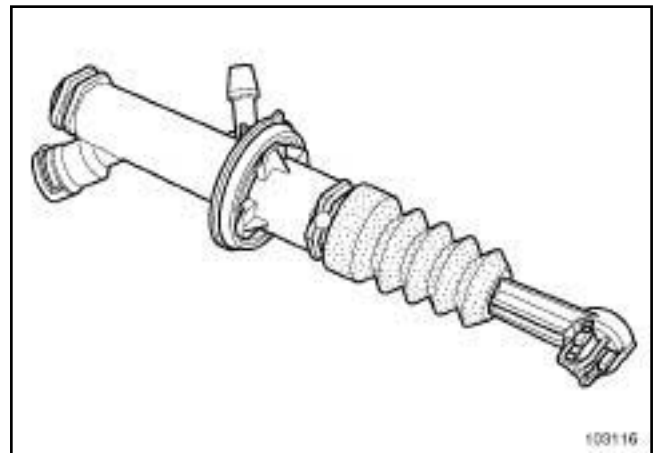


19399

- Remove the master cylinder by turning it one quarter of a turn clockwise (bayonet type mounting) using the (9) (Emb. 1596).

REFITTING

I - REFITTING PREPARATIONS OPERATION



103116

- Check the condition of the seals.

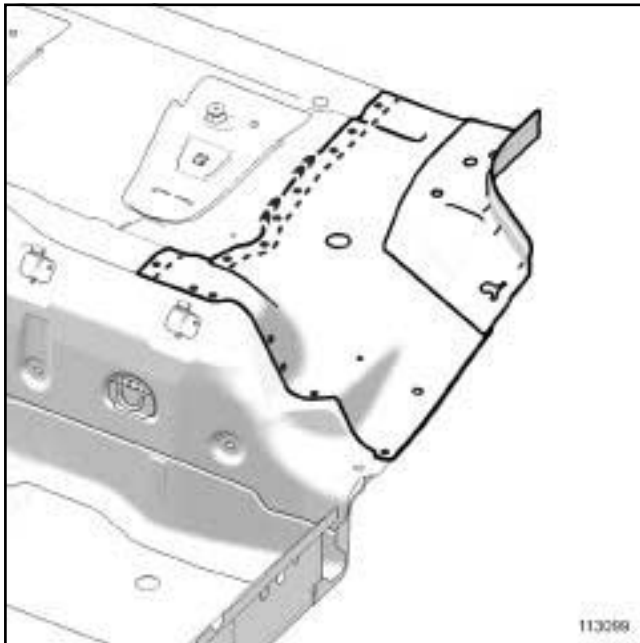
REAR LOWER STRUCTURE

Rear floor, front section: Description

41D

WARNING

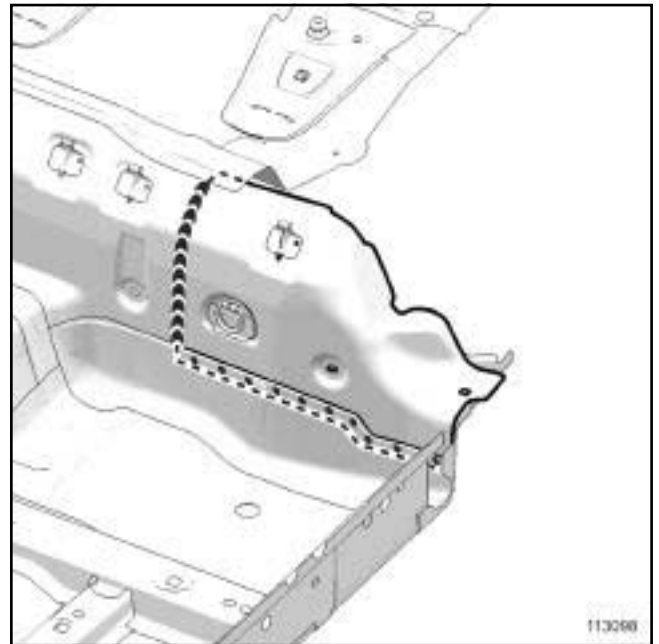
Respect the position of this cut which has been determined in accordance with the position of the inner stiffeners or acoustic inserts, in order to prevent damaging the parts (inner stiffener and/or acoustic insert).



113099

Note:

Carry out partial replacement by superposition of panels, and make two welds.



113098

WARNING

If the mating faces of the parts to be welded are not accessible, make EGW plug welds to replace the original resistance welds (see **MR 400**).

Special tooling required

Car. 1764 Instrument panel protector

WARNING

Leave the rain sensor in place on the old windscreen during the replacement operation.

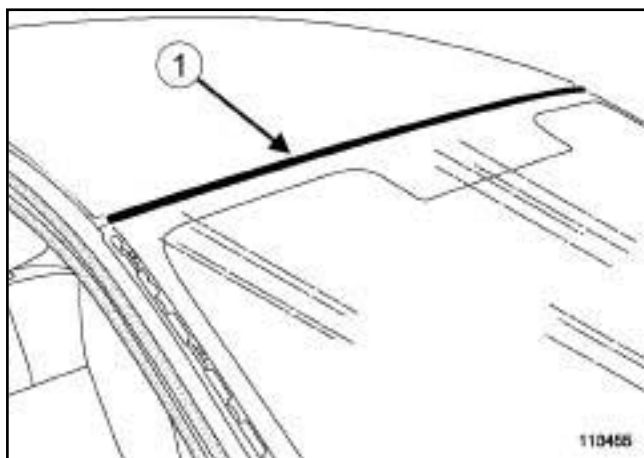
REMOVAL

I - REMOVAL PREPARATION OPERATION

Remove:

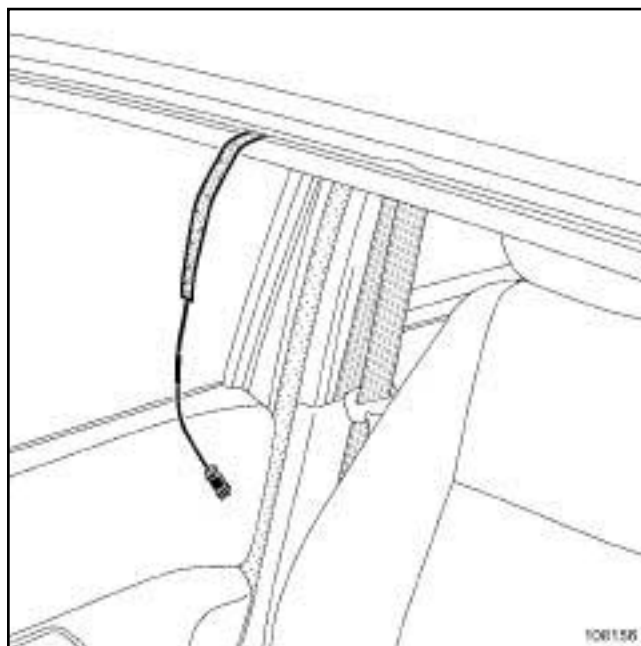
- the scuttle panel grille (see **56A, Exterior equipment, Scuttle panel grille: Removal - Refitting, page 56A-1**),
- the windscreen trims (see **54A, Windows, Windscreen trim: Removal - Refitting, page 54A-3**),
- the interior rear-view mirror (see **57A, Interior equipment, Interior rear-view mirror: Removal - Refitting, page 57A-21**),
- the A-pillar trims (see **Windscreen pillar trim: Removal - Refitting**) (MR 393, 71A, Body internal trim),

II - OPERATION FOR REMOVAL OF PART CONCERNED



113455

- Remove the windscreen upper seal (1).
- Protect the windscreen surround using masking tape.
- Position the dashboard protector (**Car. 1764**).



108156

WARNING

When cutting the cement bead, take care not to cut the wiring harness.

- Cut the cement bead.

REFITTING

I - REFITTING PREPARATION OPERATION

- Position the retaining shims and stops.
- Position the upper seal on the windscreen.
- For preparation and bonding (see **Technical Note 560A, General procedure for bonding windows and sunroof**).

II - REFITTING OPERATION FOR PART CONCERNED

WARNING

Use high modulus adhesive when bonding the windscreen.

- Bond the windscreen.
- This operation requires two people.

Front footwell air distribution duct: Removal - Refitting

RIGHT-HAND DRIVE

Equipment required

Diagnostic tool

Tightening torques

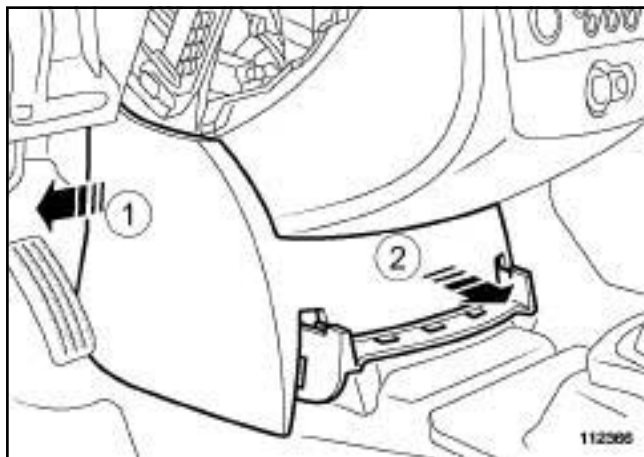
dashboard cross member reinforcement bolts **21 Nm**

REMOVAL

I - REMOVAL PREPARATION OPERATION

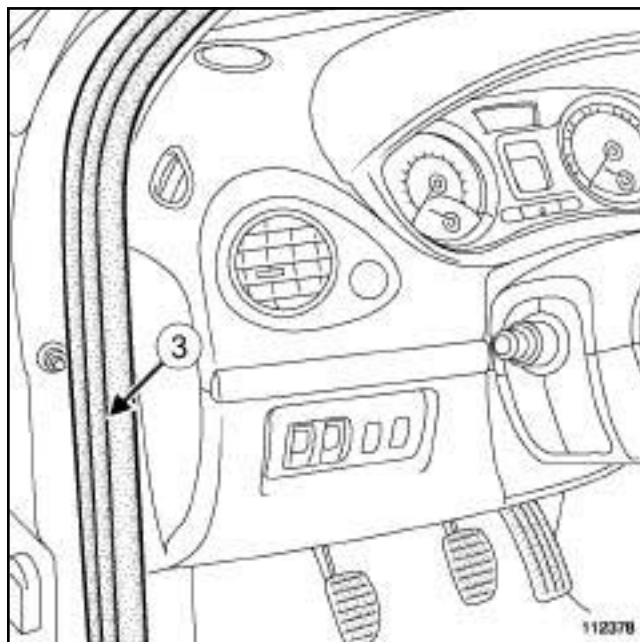
1 - Driver's side

- Lock the airbag computer using the **Diagnostic tool** (see **Fault finding - Replacement of components**)(MR 394, 88C, Airbags and pretensioners).
- Remove the centre console (see **Centre console: Removal - Refitting**) (MR 393, 57A, Interior equipment).



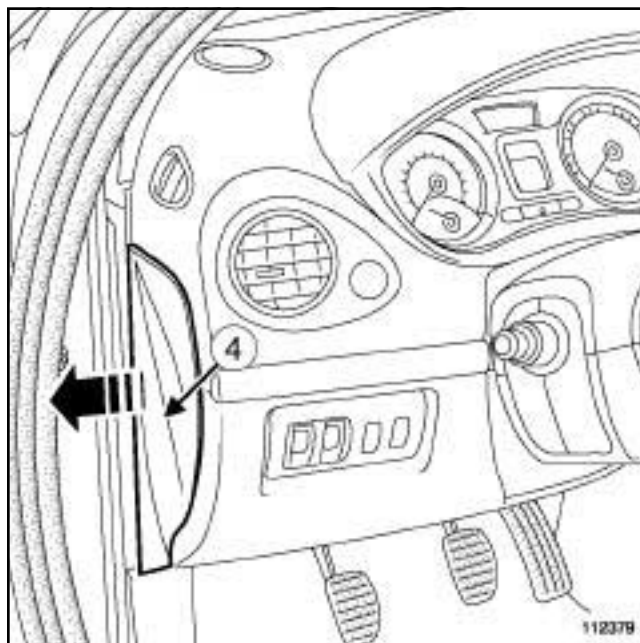
112366

- Unclip the dashboard lower trim at (1) and (2) .



112378

- Partially remove the door seal. (3)



112379

- Move the side panel to one side.
- Disconnect the inhibitor switch.
- Remove the side panel (4) .

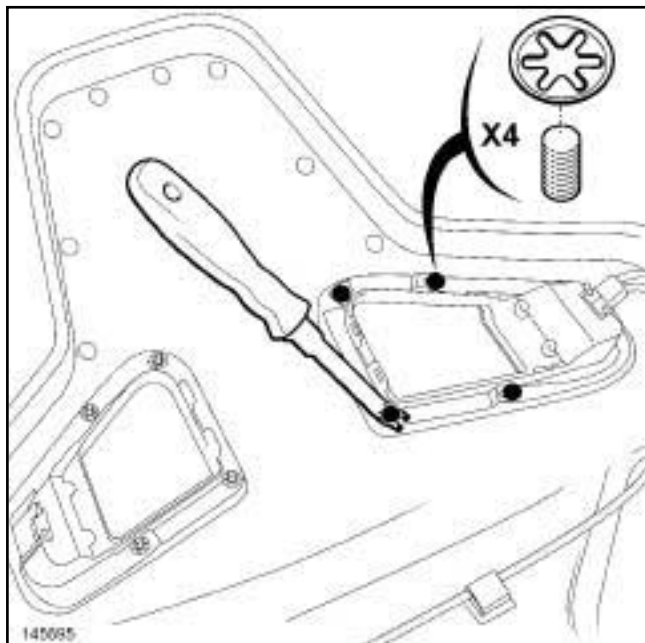
SPORT FRONT SEATS

REMOVAL

I - REMOVAL PREPARATION OPERATION

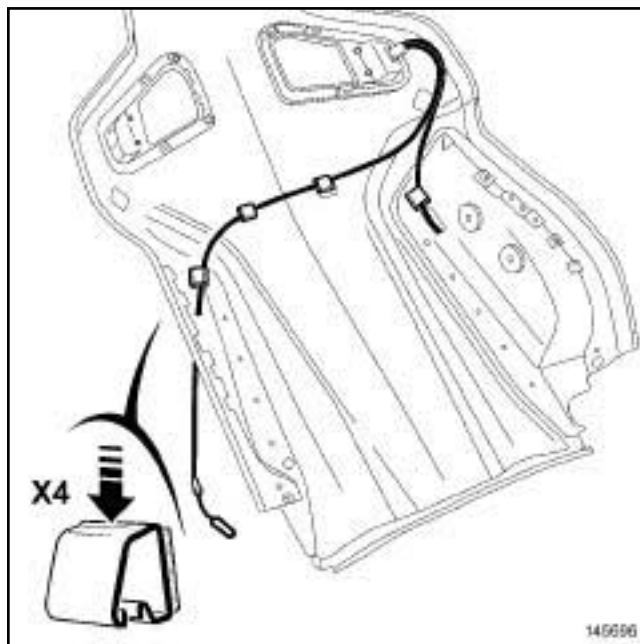
- Disconnect the battery (see) (80A, Battery).
- Remove:
 - the front seat (see 75A, **Front seat frames and mechanisms, Complete front seat: Removal - Refitting**, page 75A-33) ,
 - the front seatback cover (see 77A, **Front seat trim, Front seatback trim: Removal - Refitting**, page 77A-13) ,
 - the front seatback casing (see **Front seatback casing: Removal - Refitting**) .

II - REMOVAL OPERATION



145695

- Remove the clips of the rear seat access mechanism control support.



145696

- Detach the cables of the rear seat access mechanism from the guide clips.

Note:

The Parts Department delivers the rear seat access control assembled with the front seatback frame unlocking cables.

- Remove the « rear seat access control support - front seatback frame unlocking cables » assembly.

REFITTING

I - REFITTING PREPARATION OPERATION

- parts always to be replaced: Clip of front seatback casing exterior trim.**

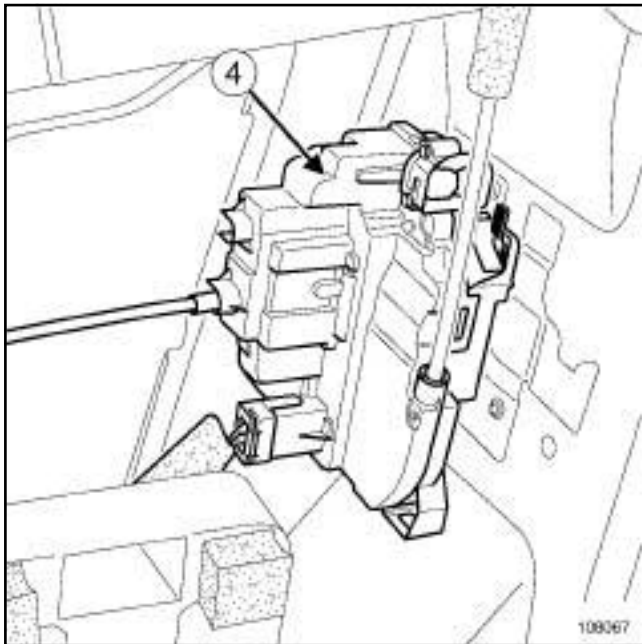
Note:

If the guide clips of the front seatback frame unlocking cables are detached, replace the **double-sided adhesive tape** (see **Vehicle: Parts and consumables for the repair**) (04B, Consumables - Products).

II - REFITTING OPERATION

- Refit the « rear seat access control support - front seatback frame unlocking cables » assembly.
- Position the cables of the rear seat access mechanism in the guide clips.

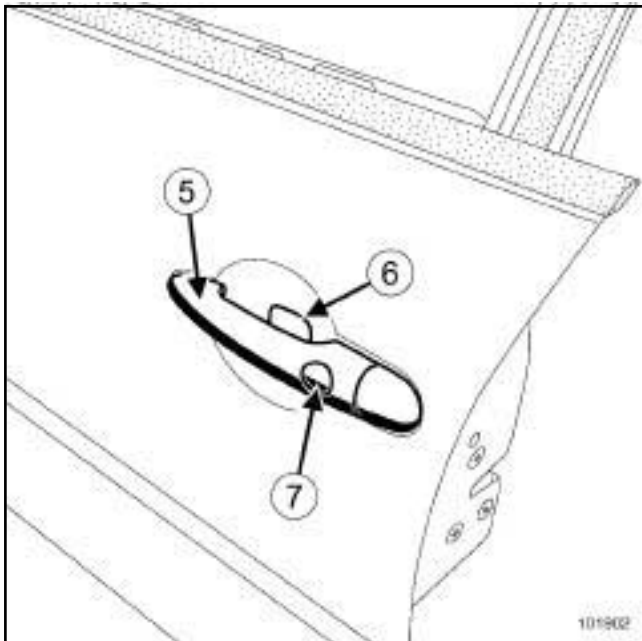
IV - DOOR LOCKING / UNLOCKING MOTOR



108067

Locking - unlocking motor integrated in the door locks (4)

V - OPENING RECEIVERS INTEGRATED IN HANDLES WITH HANDS-FREE FUNCTION AND THE REAR BUMPER

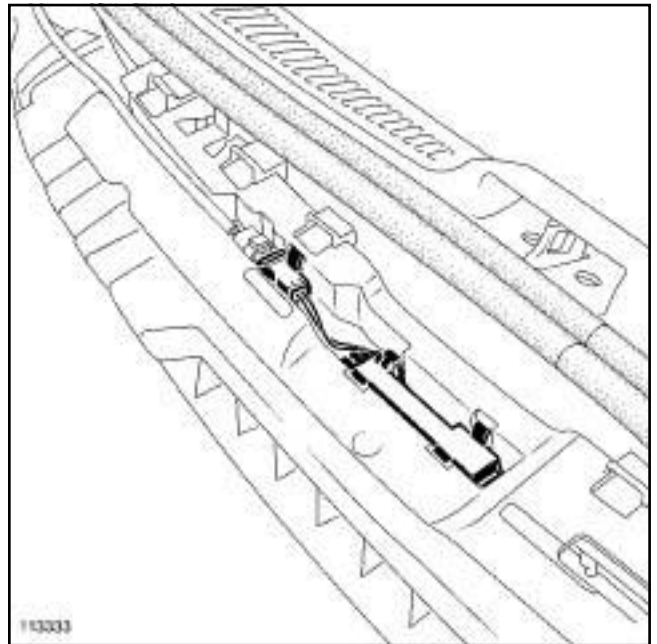


101902

Opening receiver integrated in the exterior handles (5) (hands-free version)

Presence and motion sensor (6) (hands-free version),

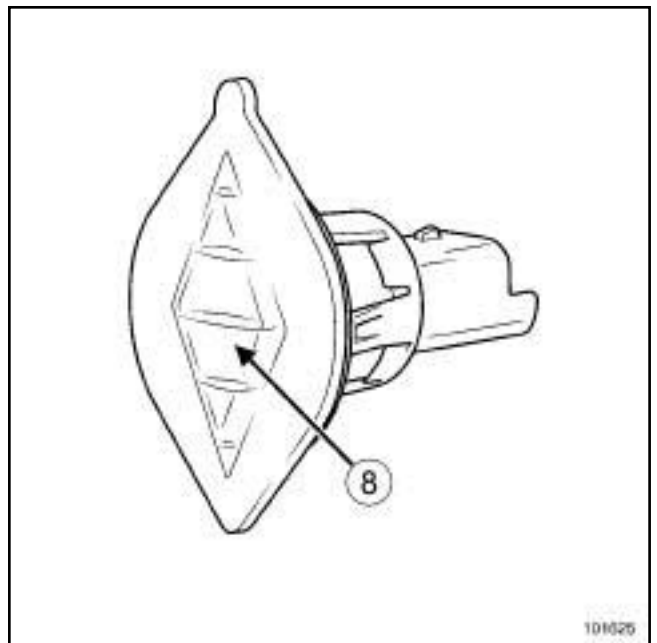
Locking button (7) (hands-free version)



113333

Opening receiver integrated in the rear bumper

VI - HANDS-FREE TAILGATE SWITCH



101625

Tailgate locking switch (8) (hands-free version)