

RENAULT

0 General vehicle information

01A VEHICLE MECHANICAL SPECIFICATIONS

01C VEHICLE BODYWORK SPECIFICATIONS

01D MECHANICAL INTRODUCTION

02A LIFTING EQUIPMENT

03B COLLISION

04B CONSUMABLES - PRODUCTS

04E PAINT

X84, and B84 or C84 or E84 or G84 or K84 or L84 or S84

77 11 318 002

MARCH 2009

Edition Anglaise

"The repair methods given by the manufacturer in this document are based on the technical specifications current when it was prepared.

The methods may be modified as a result of changes introduced by the manufacturer in the production of the various component units and accessories from which his vehicles are constructed."

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Mégane II - Section 0

Contents

Page

01A VEHICLE MECHANICAL SPECIFICATIONS

Vehicle: Specifications 01A-1

01C VEHICLE BODYWORK SPECIFICATIONS

Vehicle: Identification 01C-1

Vehicle clearances:
Adjustment values 01C-3

01D MECHANICAL INTRODUCTION

Vehicle: Precautions for
repair 01D-1

Tightening torques: General
information 01D-3

02A LIFTING EQUIPMENT

Vehicle: Towing and lifting 02A-1

03B COLLISION

Damaged vehicle: Collision
fault finding 03B-1

Vehicle damaged at front:
Description 03B-4

03B COLLISION

Vehicle damaged at side:
Description 03B-6

Vehicle damaged at rear:
Description 03B-10

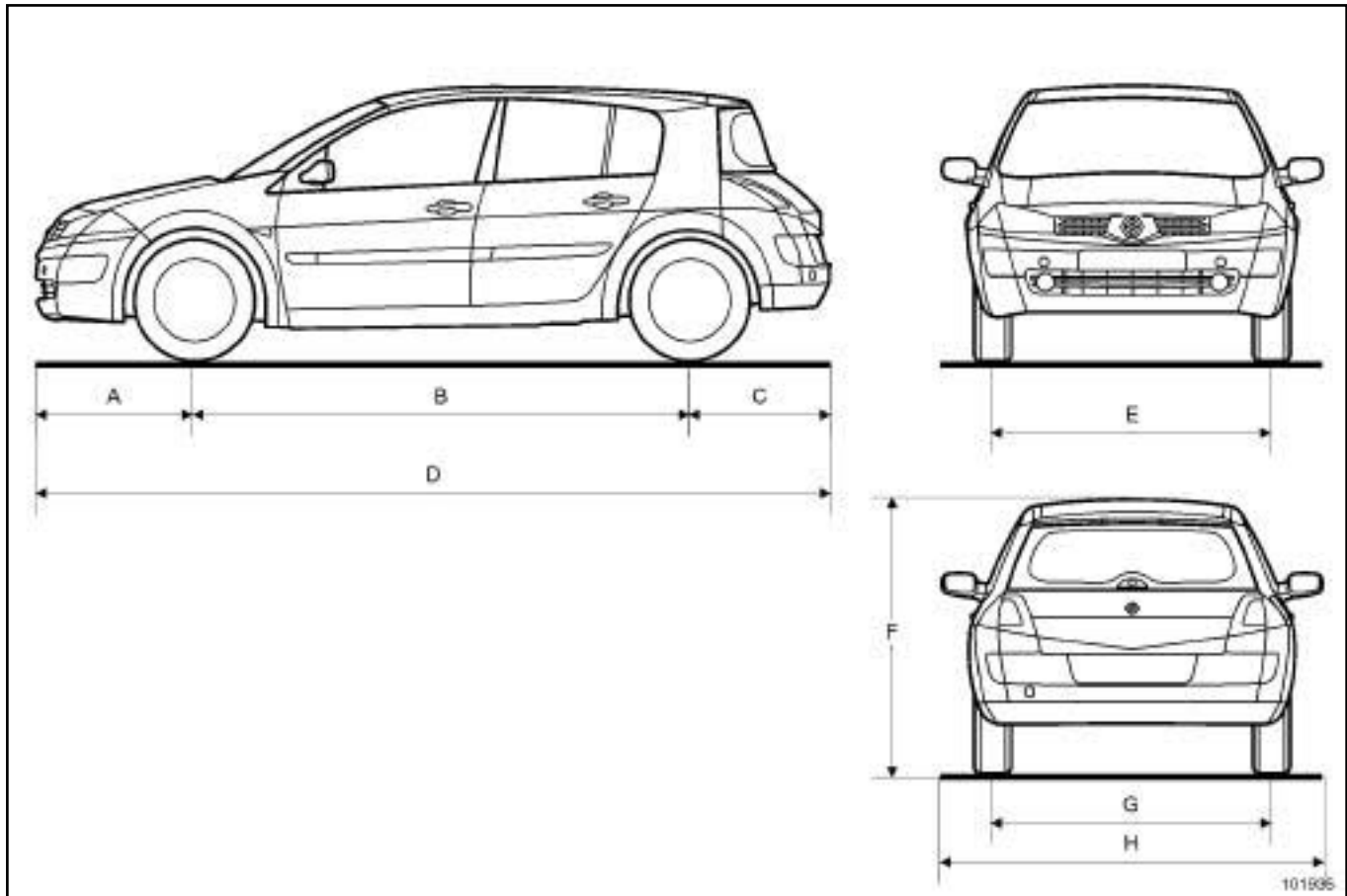
04B CONSUMABLES - PRODUCTS

Vehicle: Parts and
ingredients for the repairwork 04B-1

04E PAINT

Anti-corrosion protection
product Description 04E-1

B84 or C84 or G84 or S84

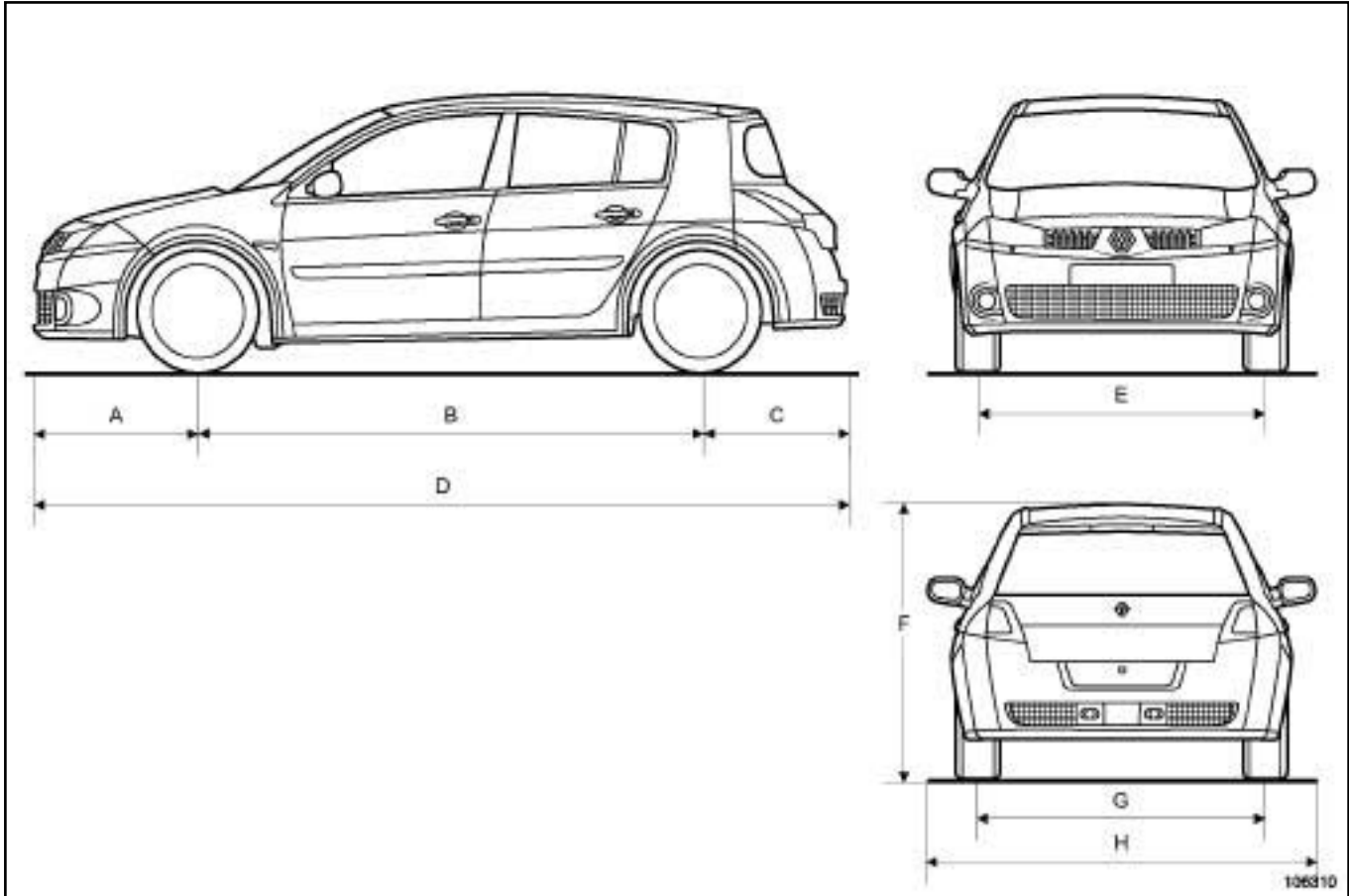


101936

Dimensions in metres:

(A)	0.842
(B)	2.625
(C)	0.742
(D)	4.209
(E)	1.518
(F) (unladen)	1.458
(G)	1.514
(H)	2.026

B84 or C84, and EQT LEVEL SPORT

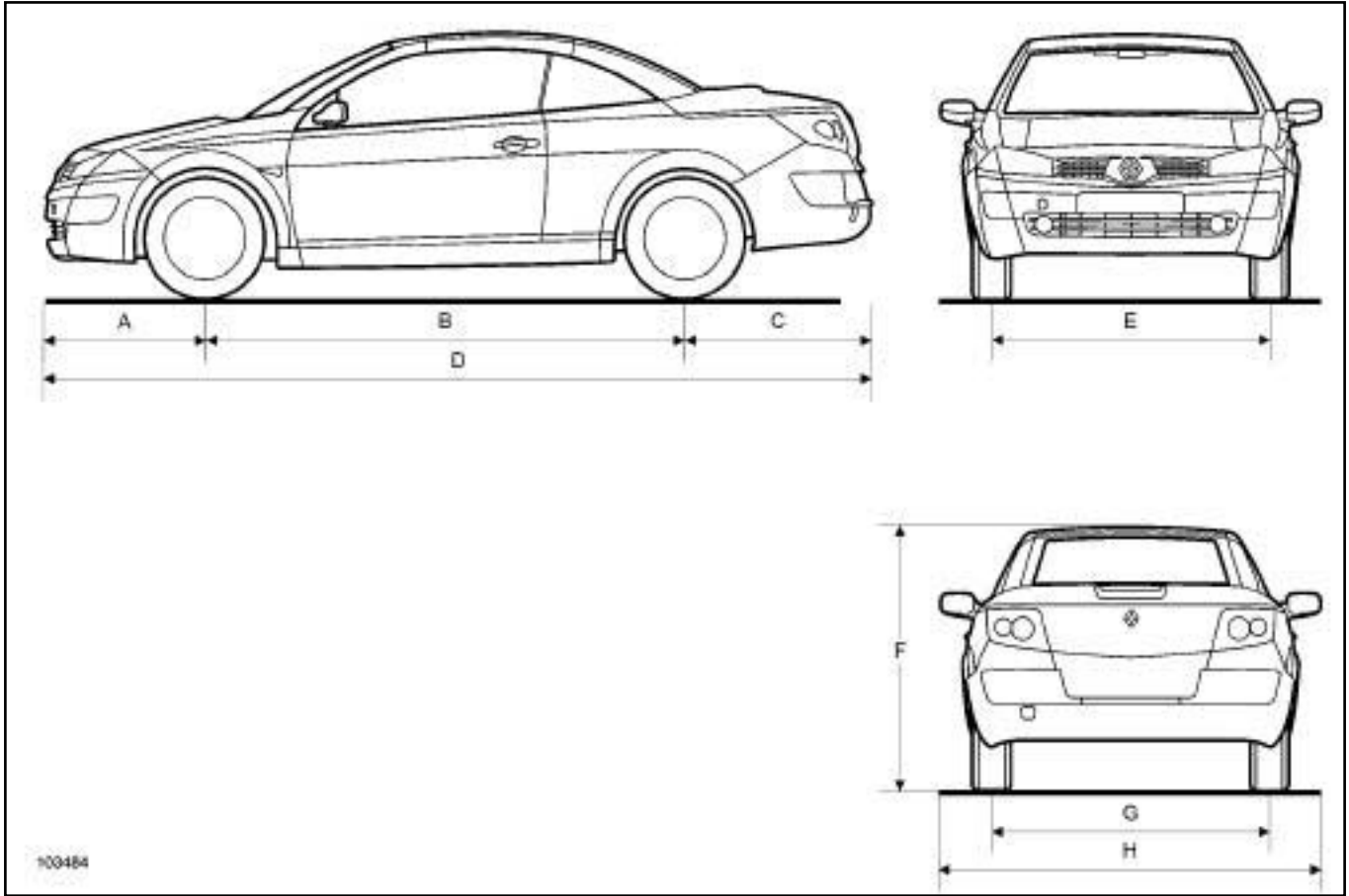


106310

Dimensions in metres:

(A)	0.857
(B)	2.617
(C)	0.754
(D)	4.228
(E)	1.517
(F) (unladen)	1.436
(G)	1.521
(H)	2.026

E84

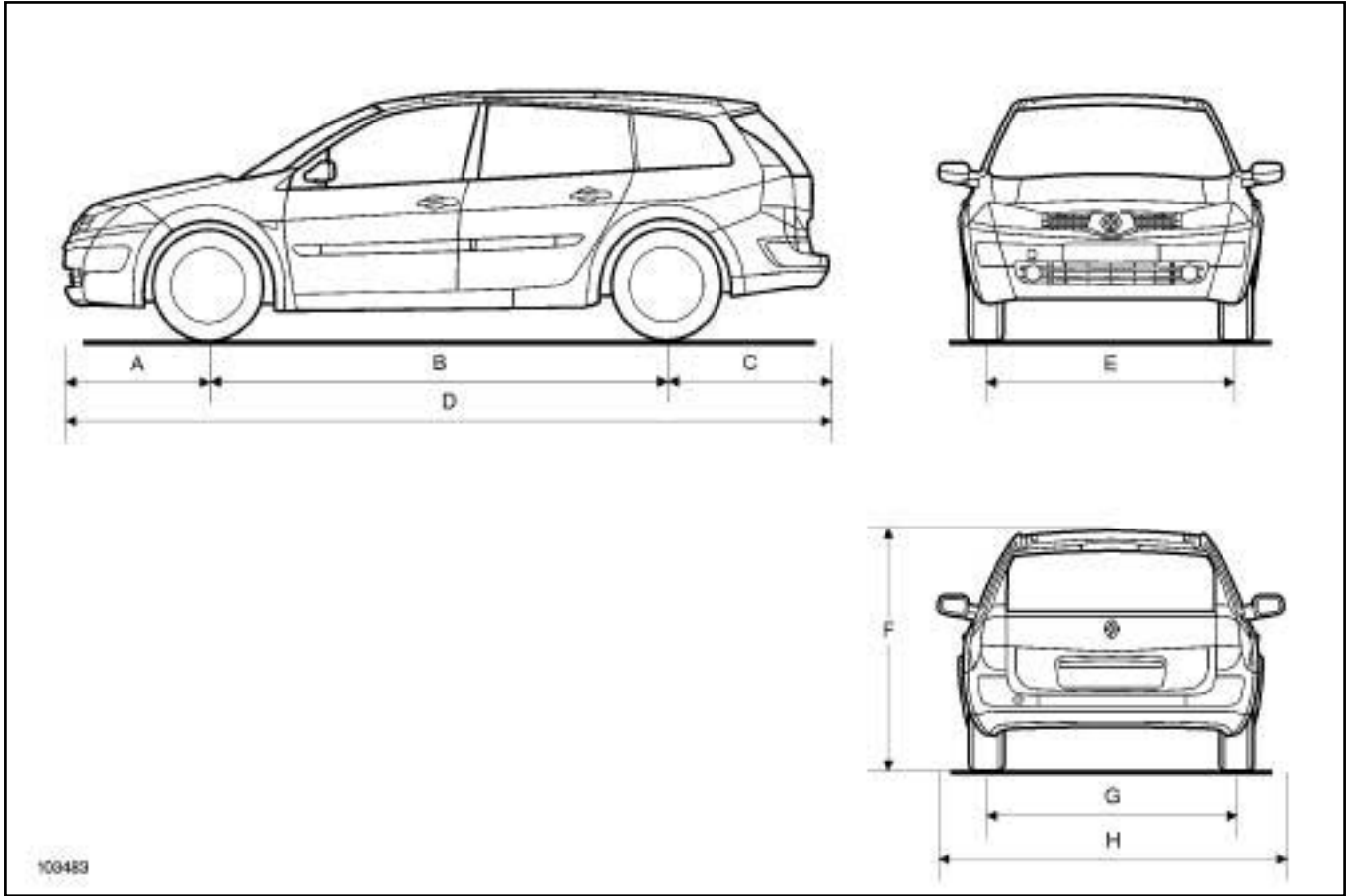


103484

Dimensions in metres:

(A)	0.842
(B)	2.522
(C)	0.991
(D)	4.355
(E)	1.518
(F) (unladen)	1.404
(G)	1.514
(H)	2.026

K84

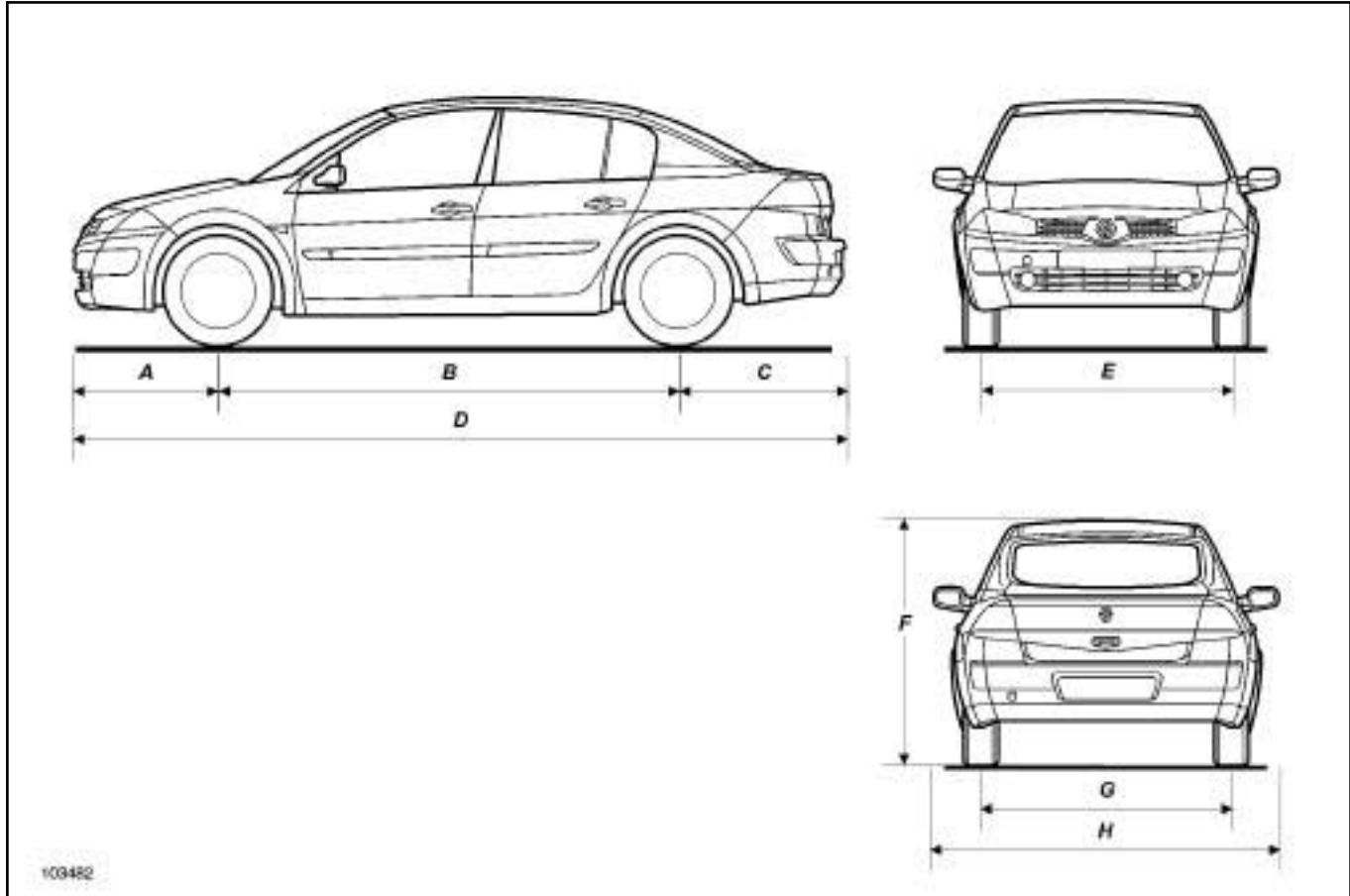


103483

Dimensions in metres :

(A)	0.842
(B)	2.686
(C)	0.972
(D)	4.500
(E)	1.518
(F) (unladen)	1.467
(G)	1.514
(H)	2.026

L84



103482

Dimensions in metres :

(A)	0.842
(B)	2.686
(C)	0.970
(D)	4.498
(E)	1.518
(F) (unladen)	1.460
(G)	1.514
(H)	2.026

Vehicle type	Engine			Gearbox type
	Engine type	Engine suffix	Cubic capacity(cc)	

XM0B	K4J	730	1390	JH3
XM0H		740		
XM1A				
XM08		732		
XM0C	K4M	760	1598	JH3
XM0J		761		DP0
XM1B		782		JR5
XM2F		762		JH3
XM1Y		788		JR5
XM0C		812		JH3
XM1B				JR5
XM1R		766		TL4
		813		DPO
XM2E		768		JH3
XM2M				
XM05	F4R	770	1998	ND0
XM0U		771		DP0
XM1M				
XM1N				
XM1U				
XM0M		774		ND0
XM1L				
XM1V				
XM11				
XM2H				
XM0W		776		ND0
XM1T				

XM0F XM0T	K9K	722	1461	JR5		
XM1F		724				
XM02 XM13		728				
XM02		729			DP0	
XM1E		732			TL4	
XM16		734				
XM0G XM1G XM2C		F9Q		800 812	1870	ND0
XM1D XM14	803		DP0			
XM1D XM14 XM17	804 818 816		ND0			
XM00	808					
XM12	812					
XM1K	M9R			700 720 722		1995
			721	AJ0		
			724	PK4		

VEHICLE IDENTIFICATION

Example: XM0F

X Bodywork type

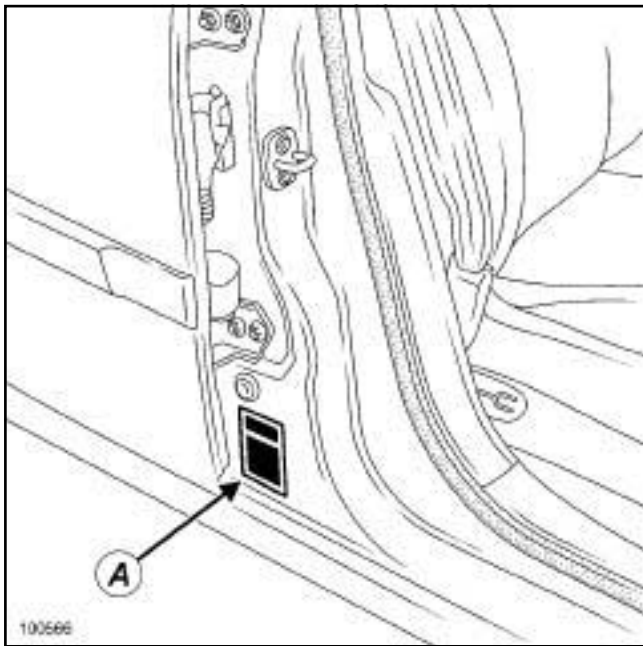
- B: five-door
- C: three-door
- E: three-door cabriolet
- G: three-door commercial vehicle
- K: five-door estate
- L: four-door estate
- S: five-door commercial vehicle

M: Project code

0F: Engine code

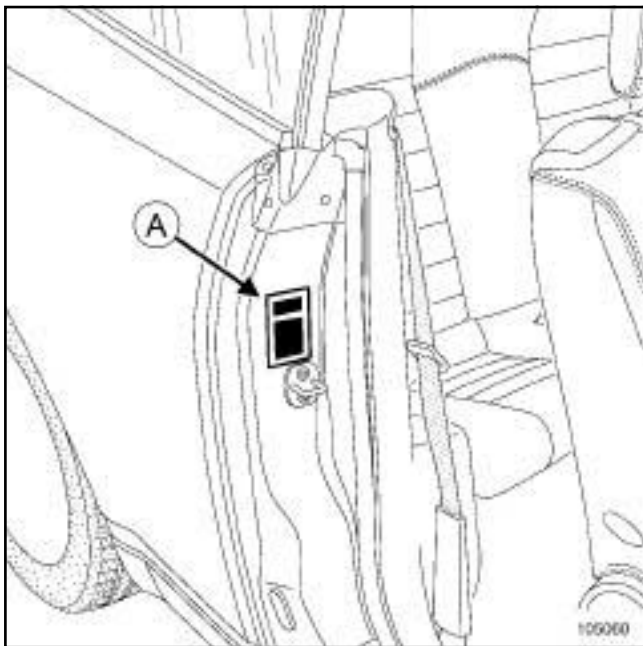
I - LOCATION OF VEHICLE IDENTIFICATION PLATE

B84 or C84 or G84 or K84 or L84 or S84

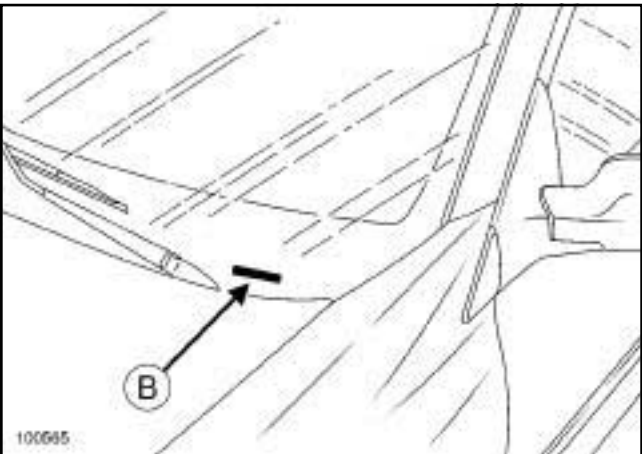


100566

E84

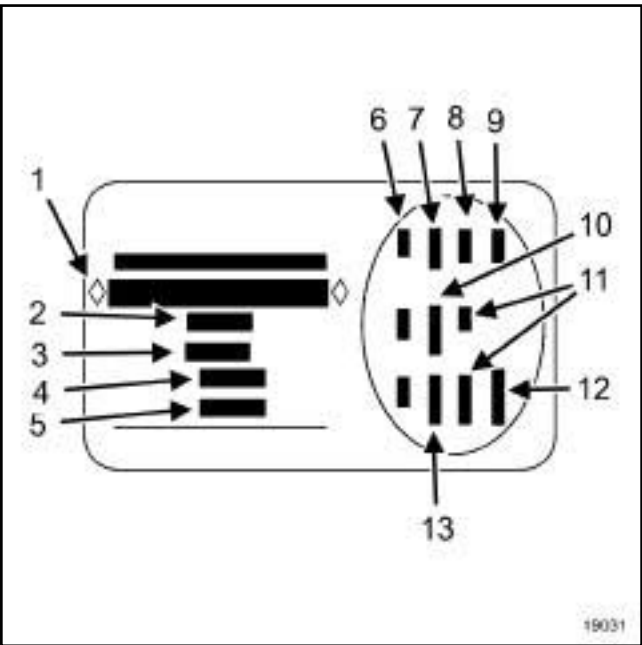


105060



100565

Plate (A)

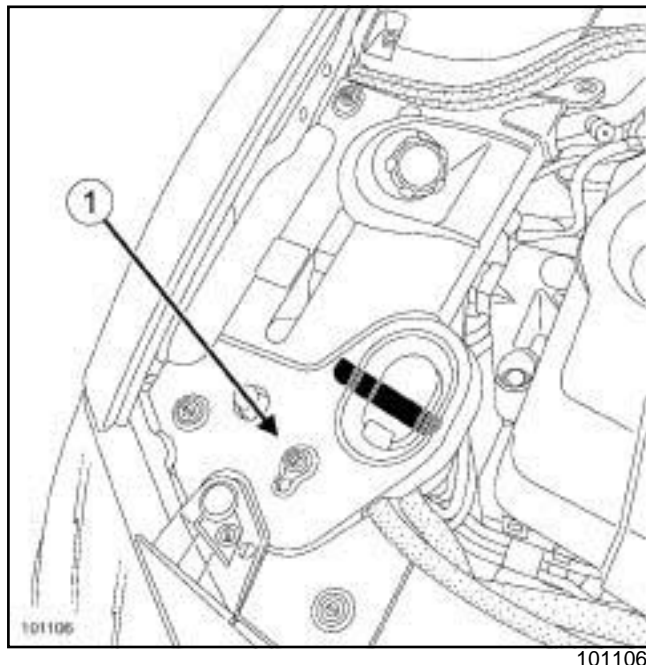


19031

- (1) Vehicle type and type number; this information also appears on marking (B)
- (2) MPAW (Vehicle's Maximum Permissible All-up Weight)
- (3) GTW (Gross train weight, vehicle under load with trailer)
- (4) Maximum permissible front axle load
- (5) Maximum permissible rear axle load
- (6) Technical vehicle specifications
- (7) Paintwork reference number
- (8) Equipment level
- (9) Vehicle type

- (10) Upholstery code
- (11) Additional equipment details
- (12) Production number
- (13) Interior trim code

II - COLD-MARKING OF THE BODY



The marking is applied to the front section of the engine mounting; it is visible after the engine cover is removed (1) .

Note:

If replacing the complete body, marking must be applied in compliance with current regulations.

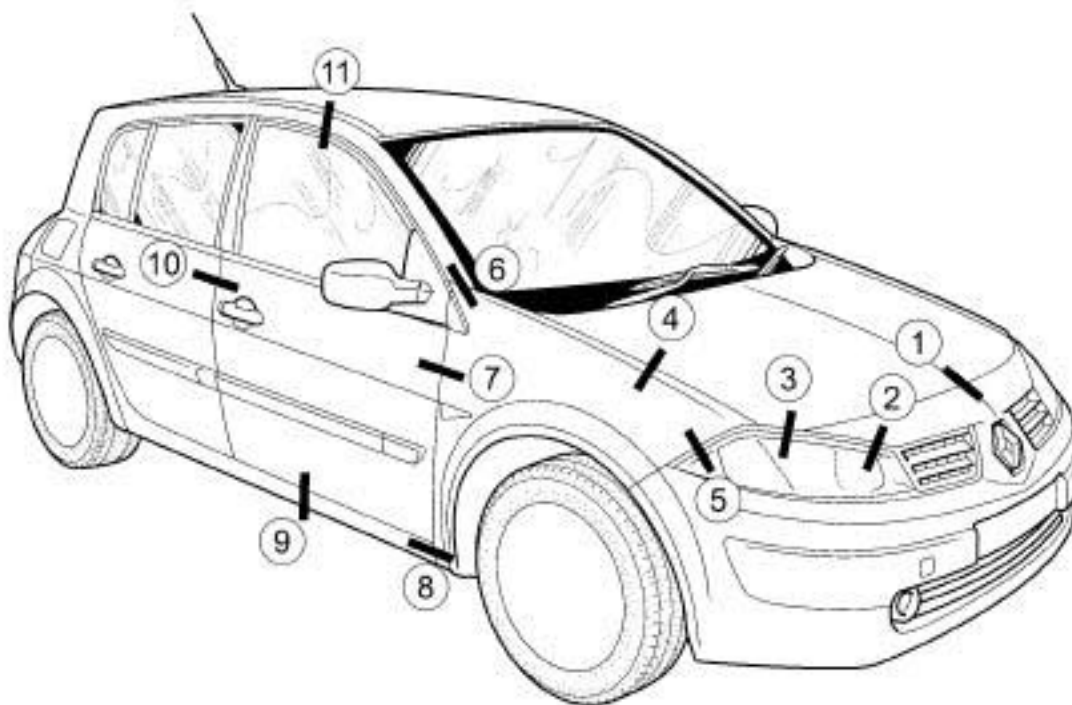
WARNING

The clearance values are given for information purposes.

When adjusting clearances, certain rules have to be followed:

- maintain symmetry with respect to the opposite side,
- ensure the flush fitting is correct,
- check correct operation of the opening, and water and air sealing.

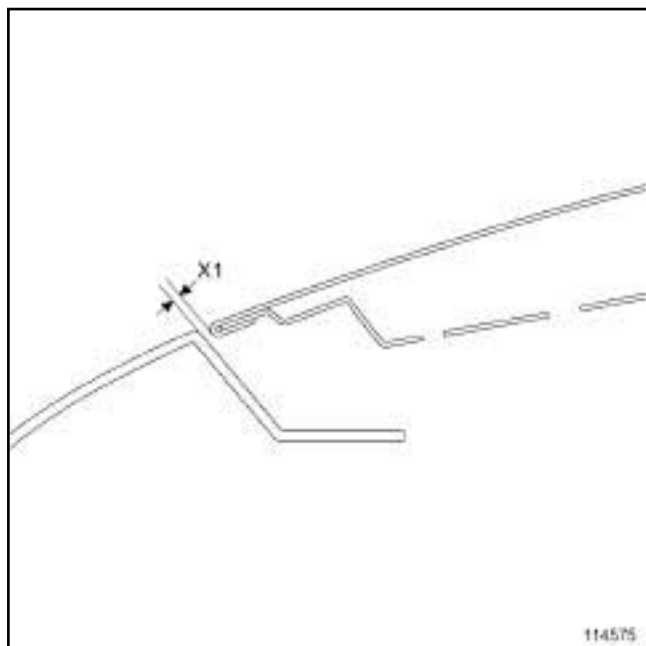
All values are given in millimetres.



114673

114673

Section 1

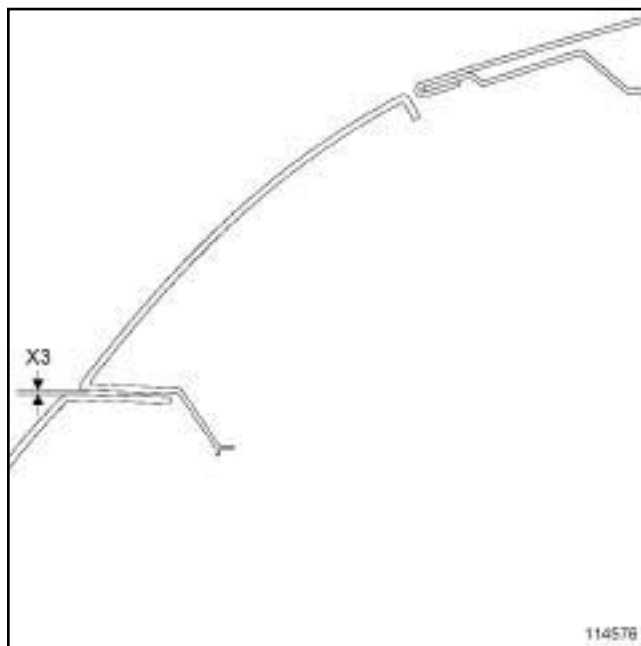


114575

$$(X1) = 3.5 \pm 1.1$$

114575

Section 3

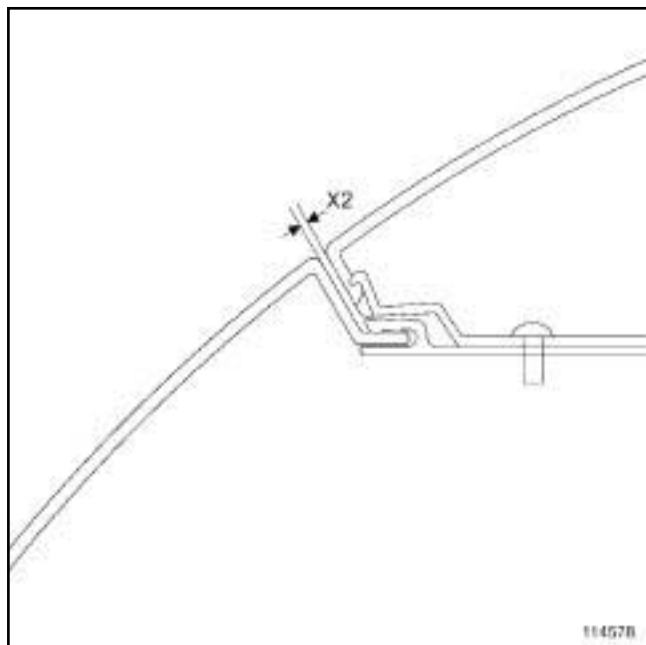


114576

$$(X3) = 2 \pm 1.4$$

114576

Section 2

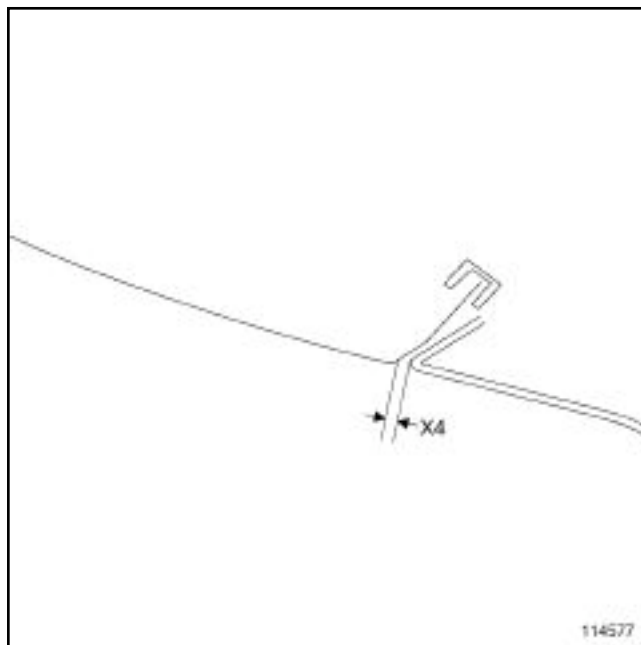


114578

$$(X2) = 1.5 \pm 1.3$$

114578

Section 4



114577

$$(X4) = 2 \pm 1.9$$

114577

Section 5



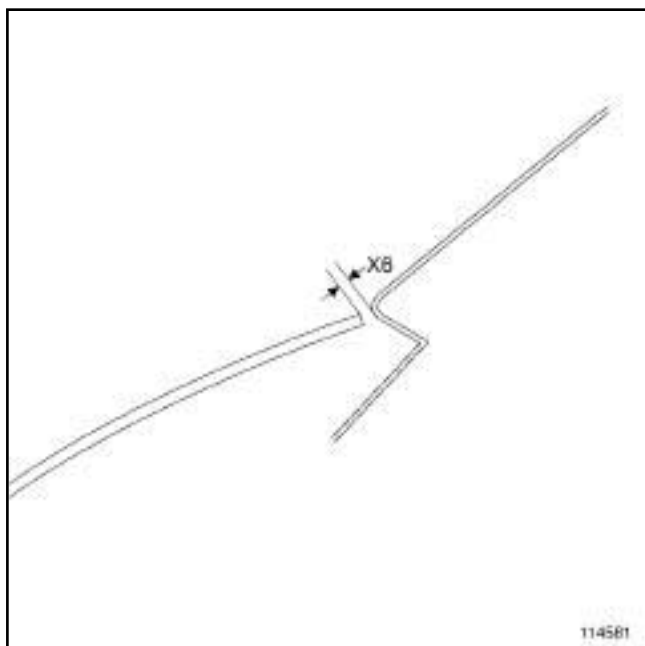
114580

$$(X5) = 3.5 \pm 1.1$$

114580

B84 or C84 or G84 or K84 or L84 or S84

Section 6

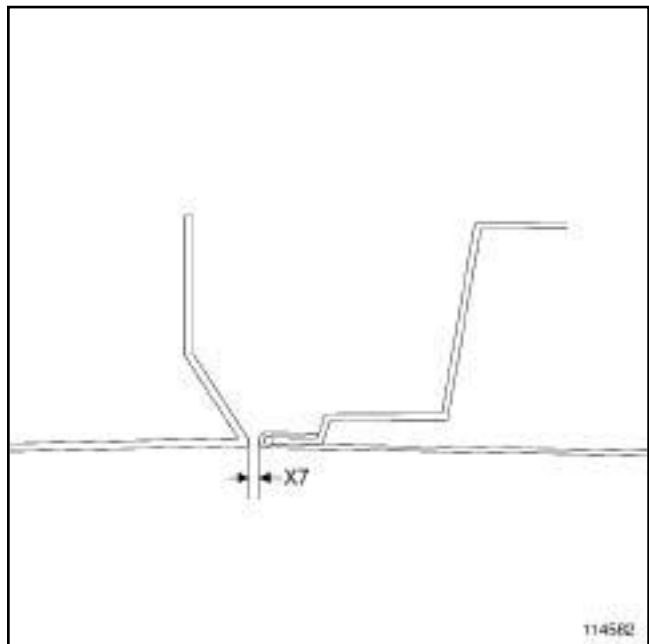


114581

$$(X6) = 2.5 \pm 1.3$$

114581

Section 7

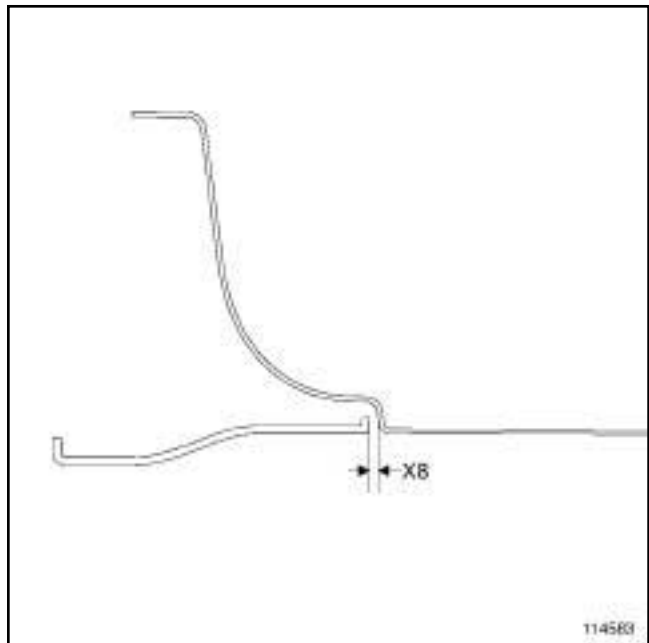


114582

$$(X7) = 4 \pm 1.2$$

114582

Section 8



114583

$$(X8) = 3 \pm 1.3$$

114583

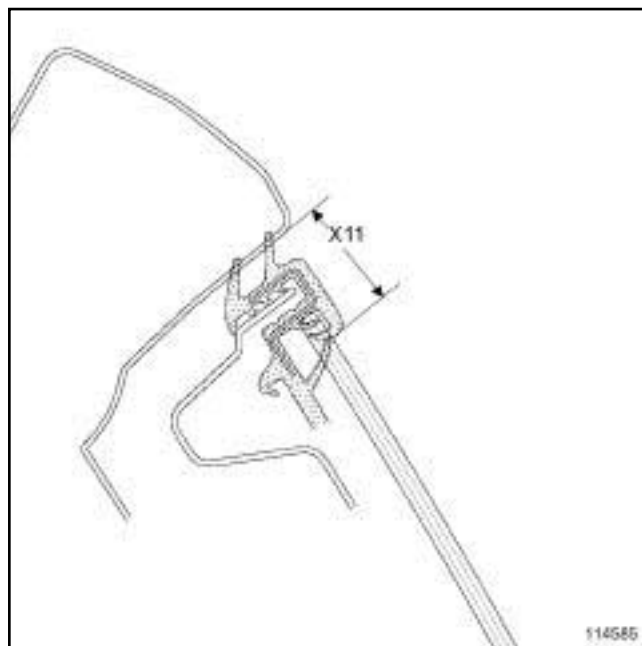
Section 9



$$(X9) = 4.5 \pm 1.4$$

114584

Section 11



$$(X11) = 22.7 \pm 1.6$$

114585

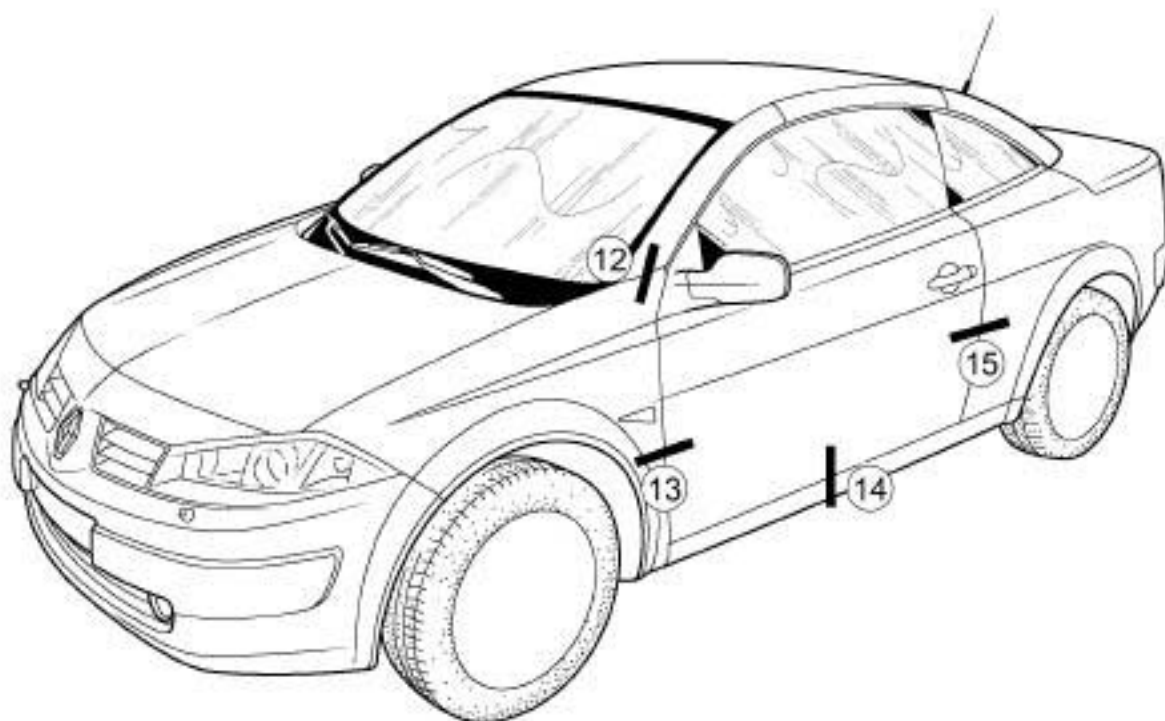
Section 10



$$(X10) = 4.2 \pm 1.2$$

114586

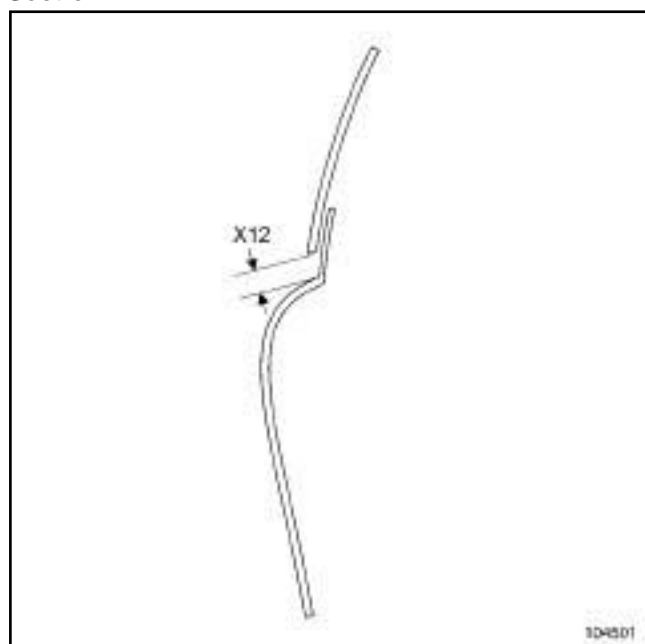
E84



117913

117913

Section 12

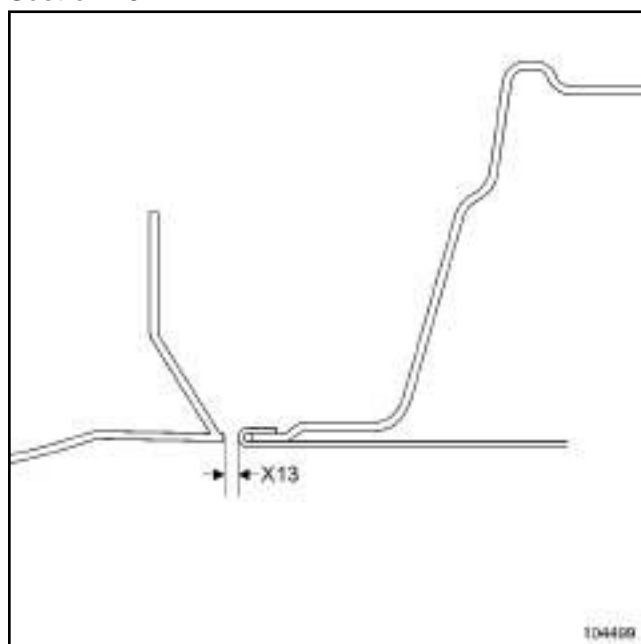


104501

104501

(X12) = 5 ± 1

Section 13



104499

104499

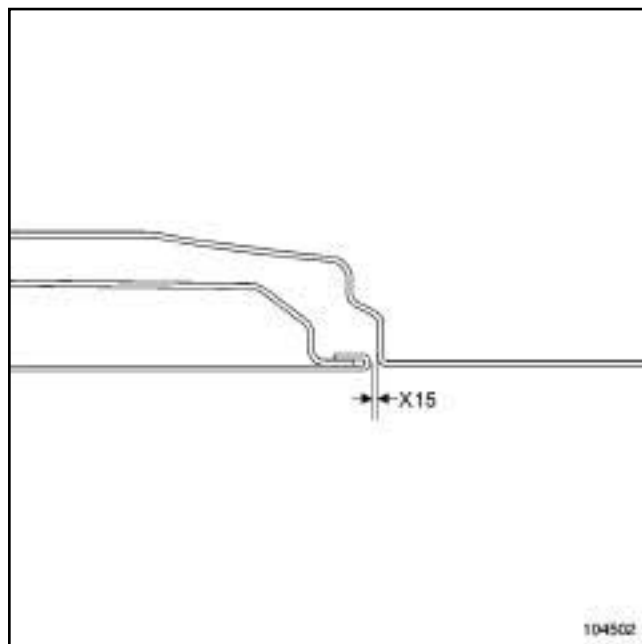
(X13) = 4 ± 1

Section 14



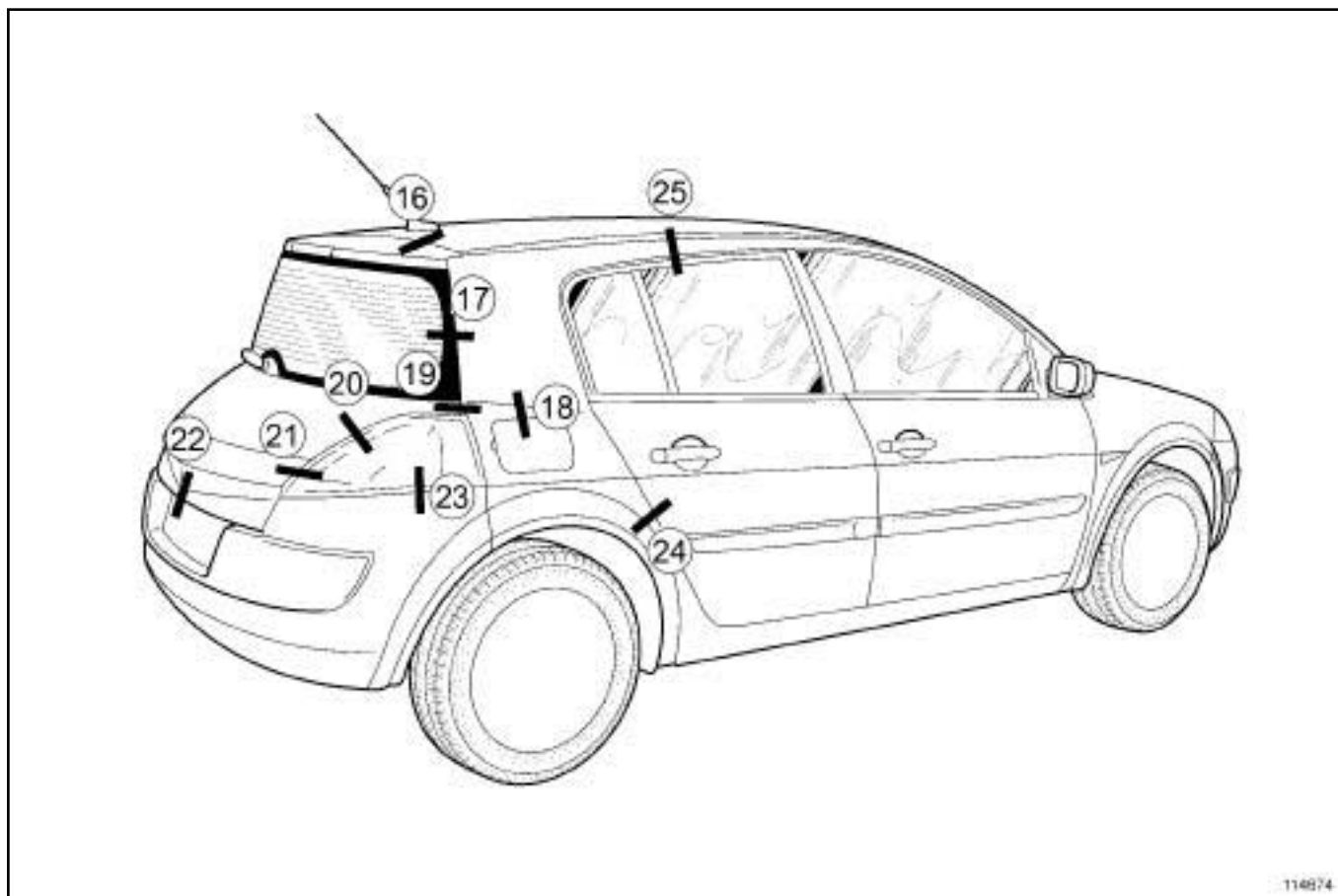
$$(X14) = 4.5 \pm 1.5$$

Section 15



$$(X15) = 4 \pm 1$$

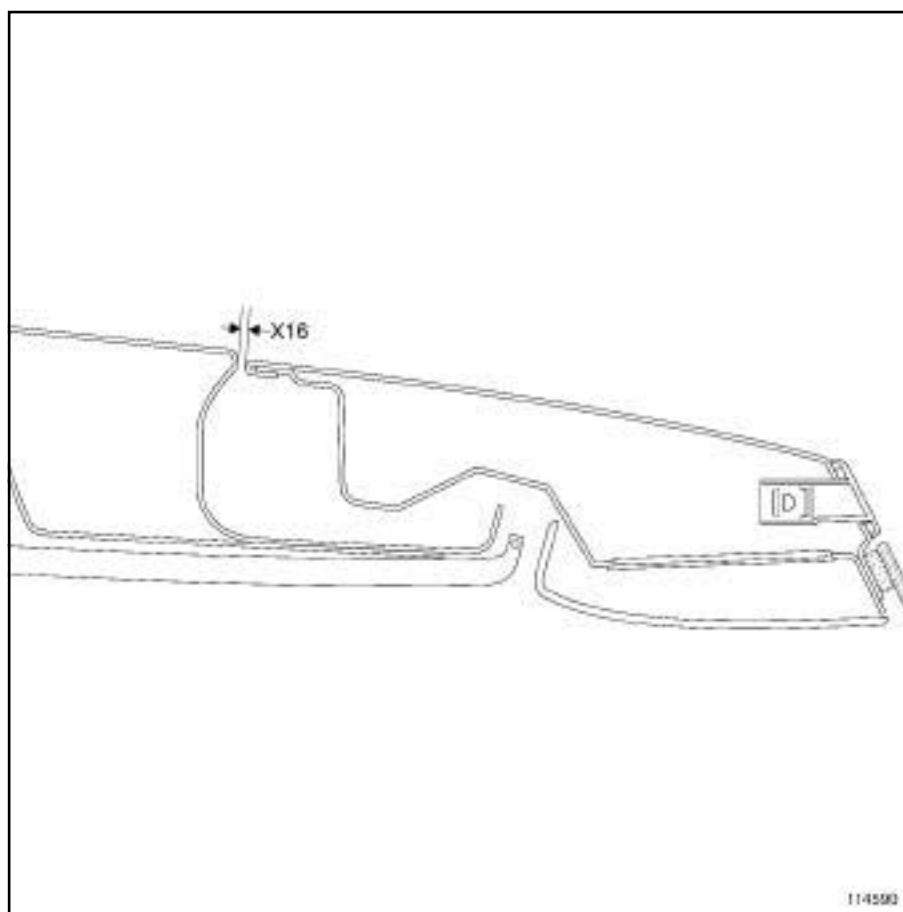
B84 or C84 or G84 or S84



114674

114674

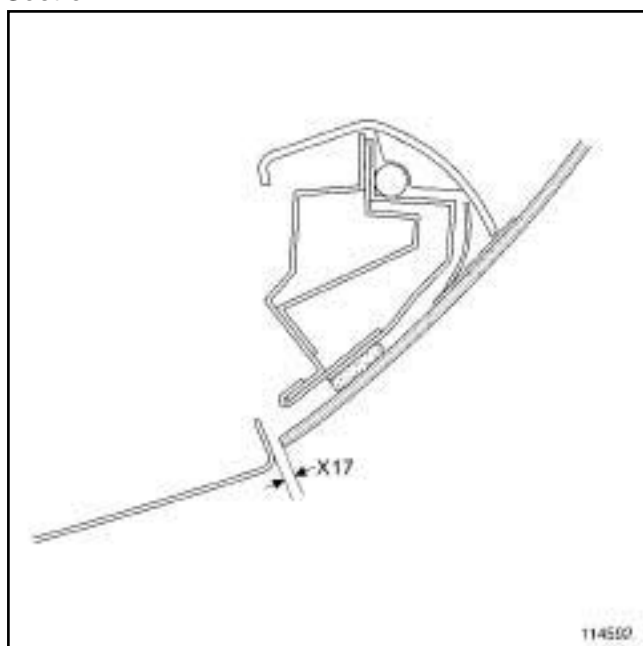
Section 16



114590

$$(X16) = 5.1 \pm 0.9$$

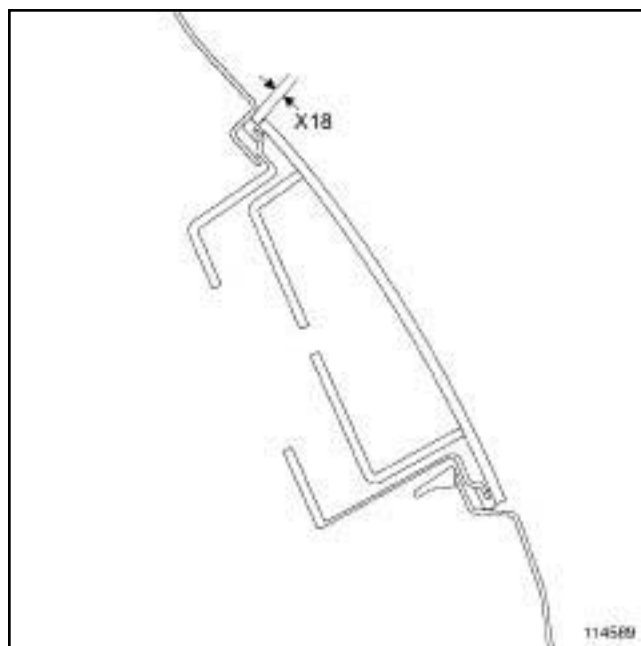
Section 17



114592

$$(X17) = 4.5 \pm 1.9$$

Section 18



114589

$$(X18) = 2.5 \pm 0.9$$

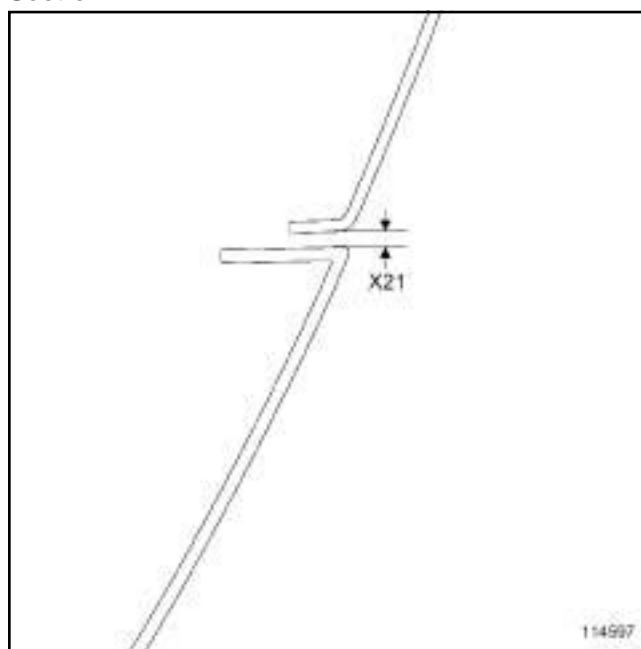
Section 19



114599

$$(X19) = 4.5 \pm 1.9$$

Section 21

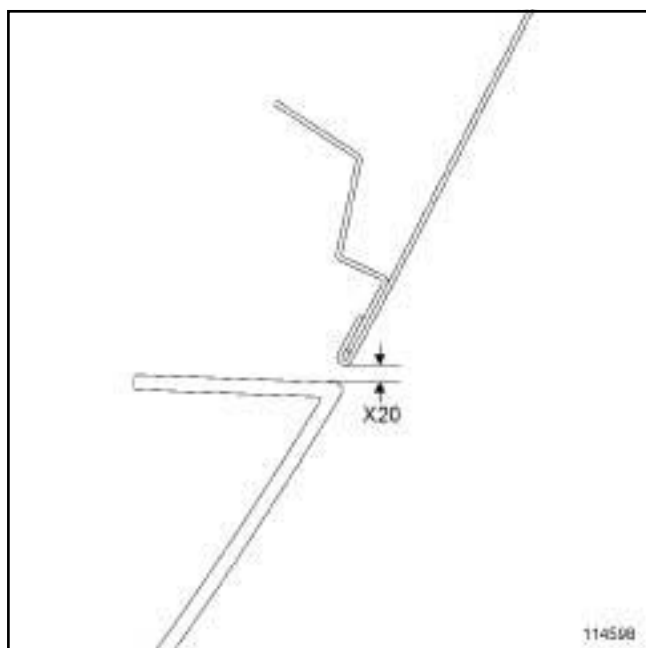


114597

114597

$$(X21) = 4.5 \pm 2.1$$

Section 20

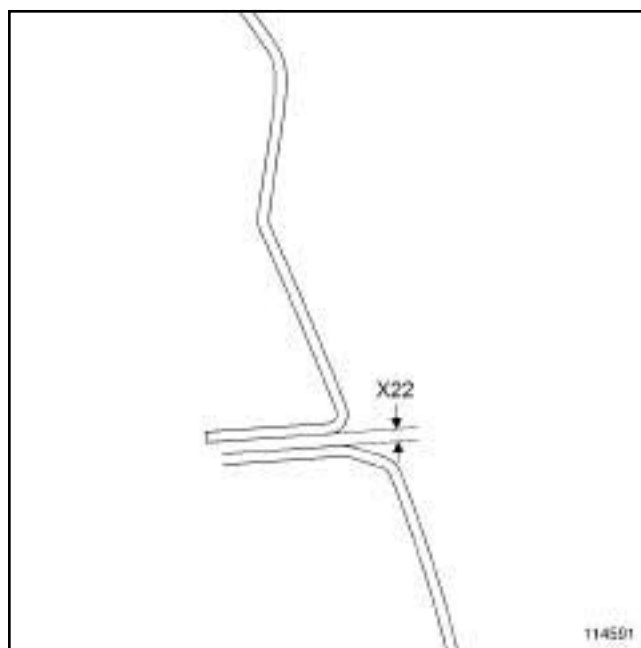


114598

114598

$$(X20) = 4.5 \pm 1.7$$

Section 22

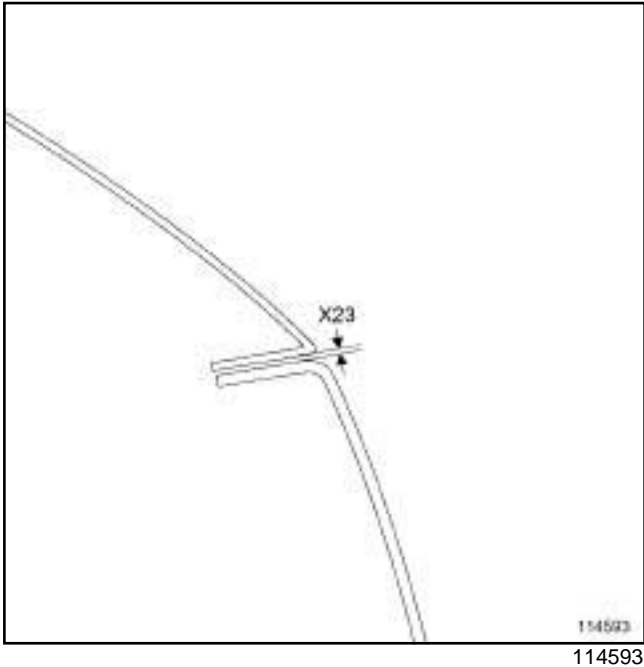


114591

114591

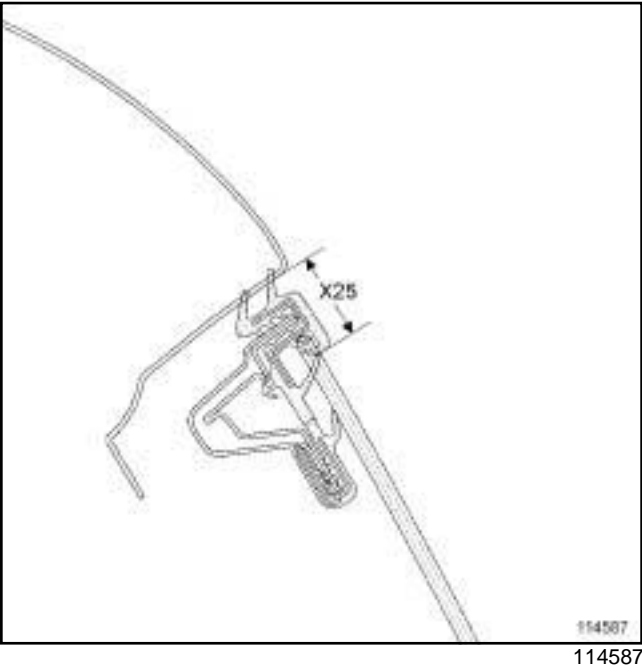
$$(X22) = 5 \pm 1.9$$

Section 23



$(X23) = 1.5 \pm 1.4$

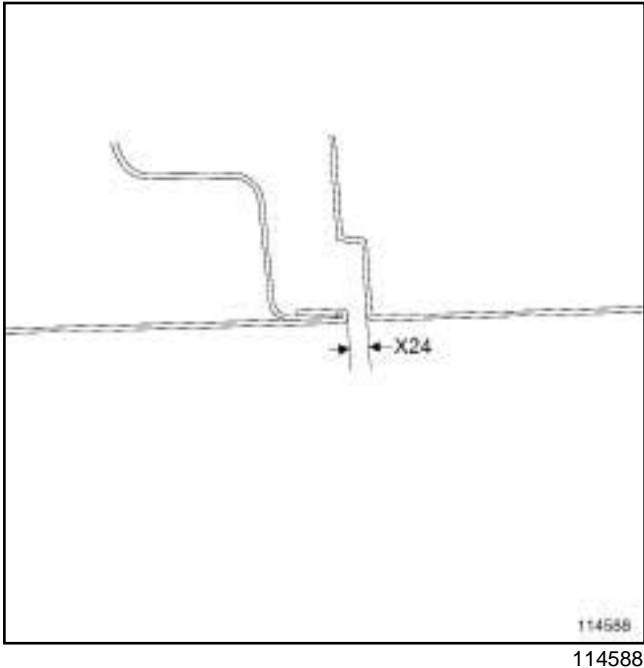
Section 25



$(X25) = 22.7 \pm 1.6$

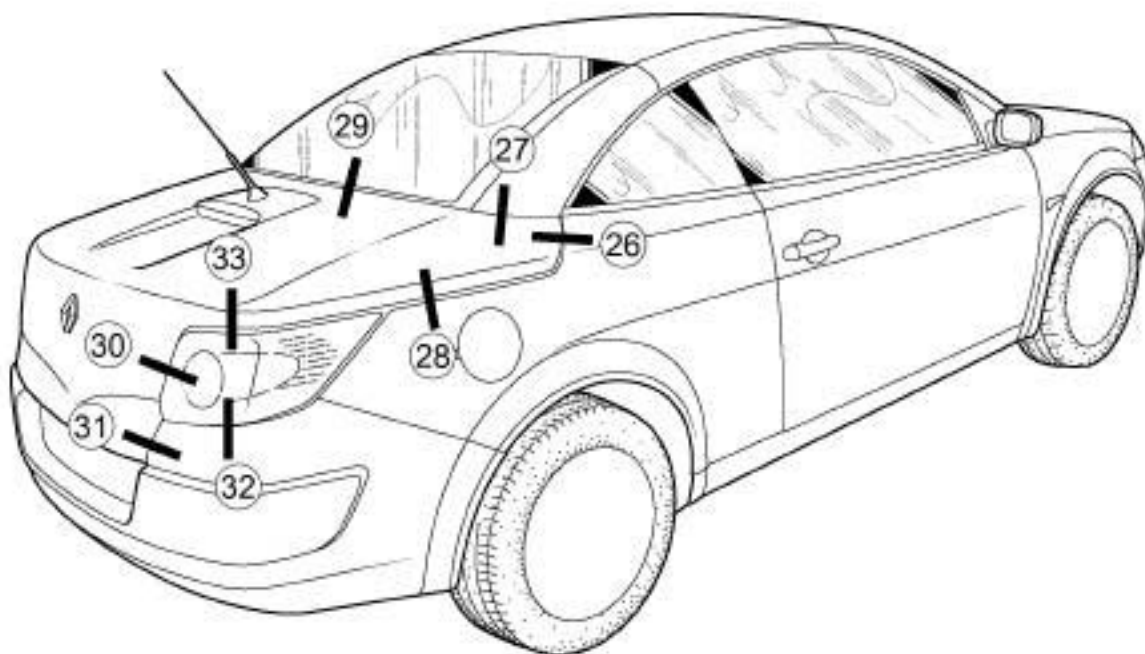
B84 or S84

Section 24



$(X24) = 4 \pm 1.2$

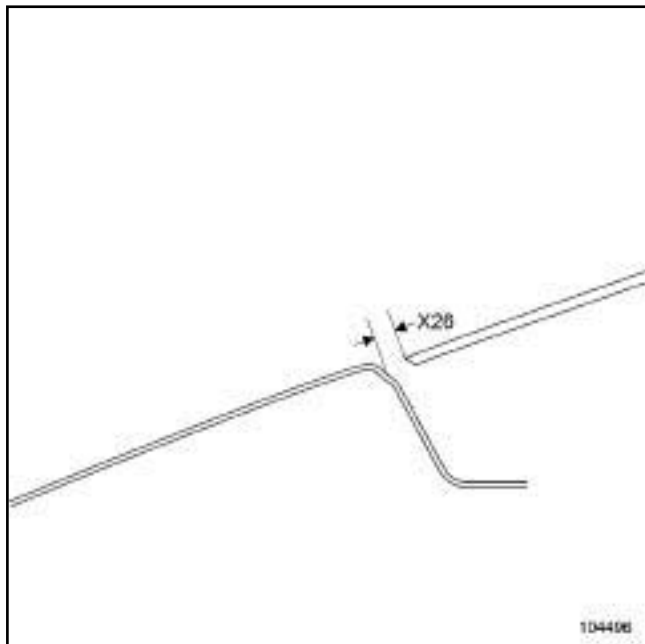
E84



117914

117914

Section 26

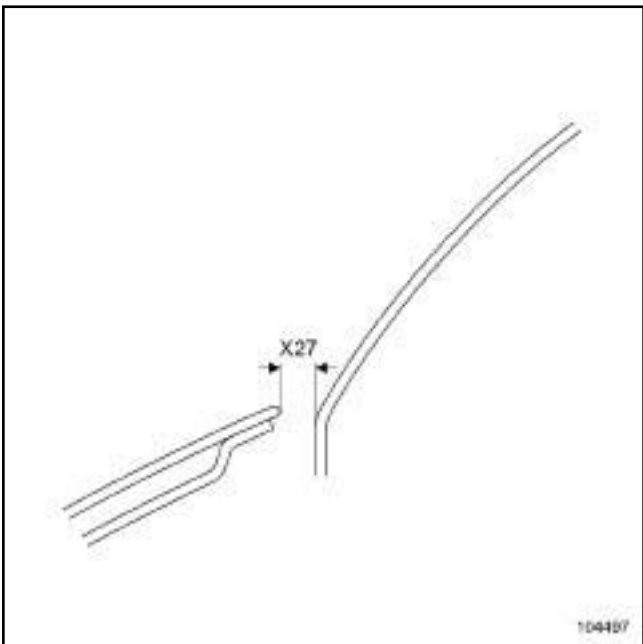


104496

104496

$(X26) = 6.5 \pm 1.5$

Section 27

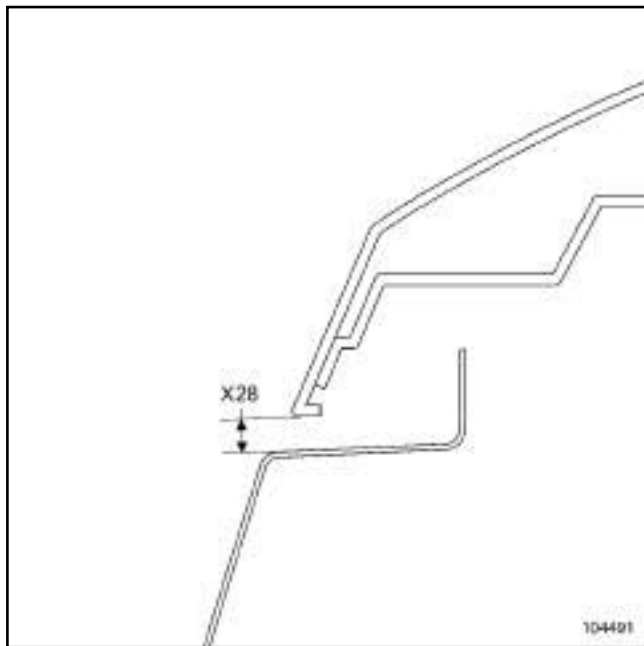


104497

104497

$(X27) = 8 \pm 2.5$

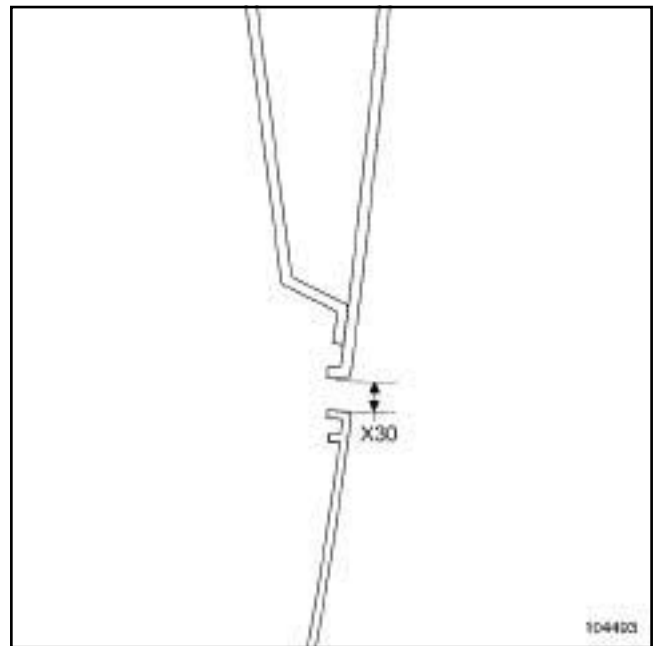
Section 28



104491

$$(X28) = 6.5 \pm 1.5$$

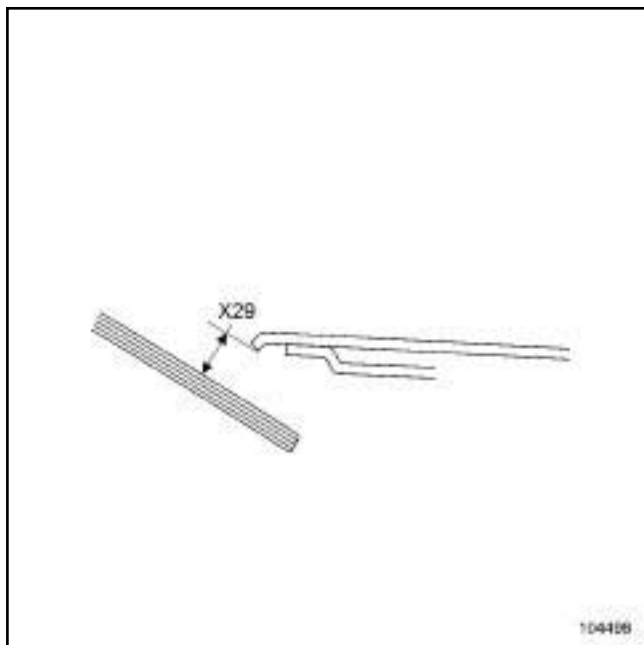
Section 30



104493

$$(X30) = 6.5 \pm 1.5$$

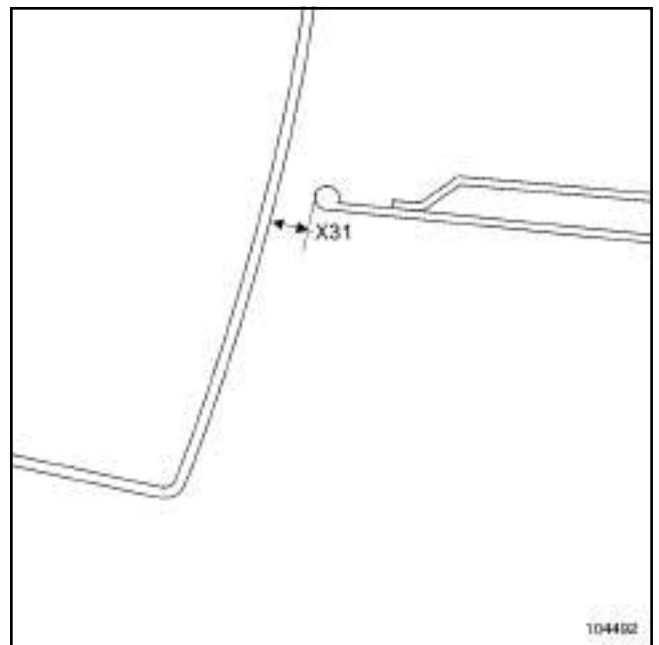
Section 29



104498

$$(X29) = 14 \pm 2$$

Section 31



104492

$$(X31) = 8 \pm 1$$

Section 32

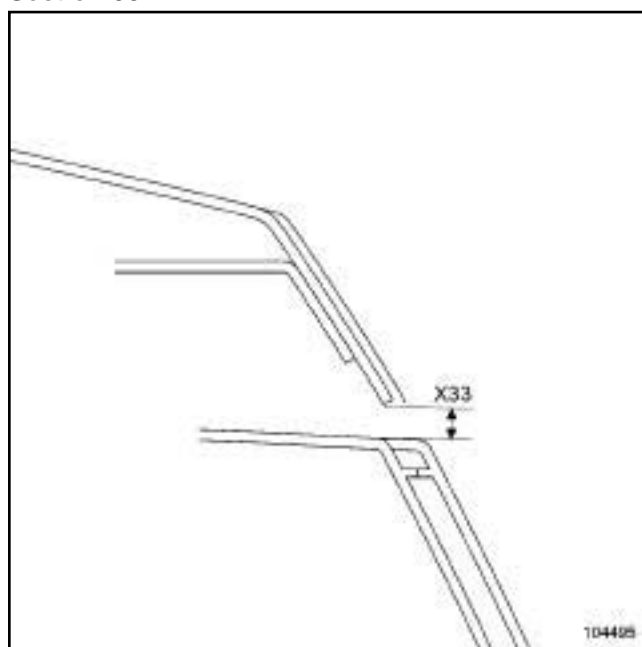


104484

104494

$$(X32) = 1.5 \pm 1.5$$

Section 33

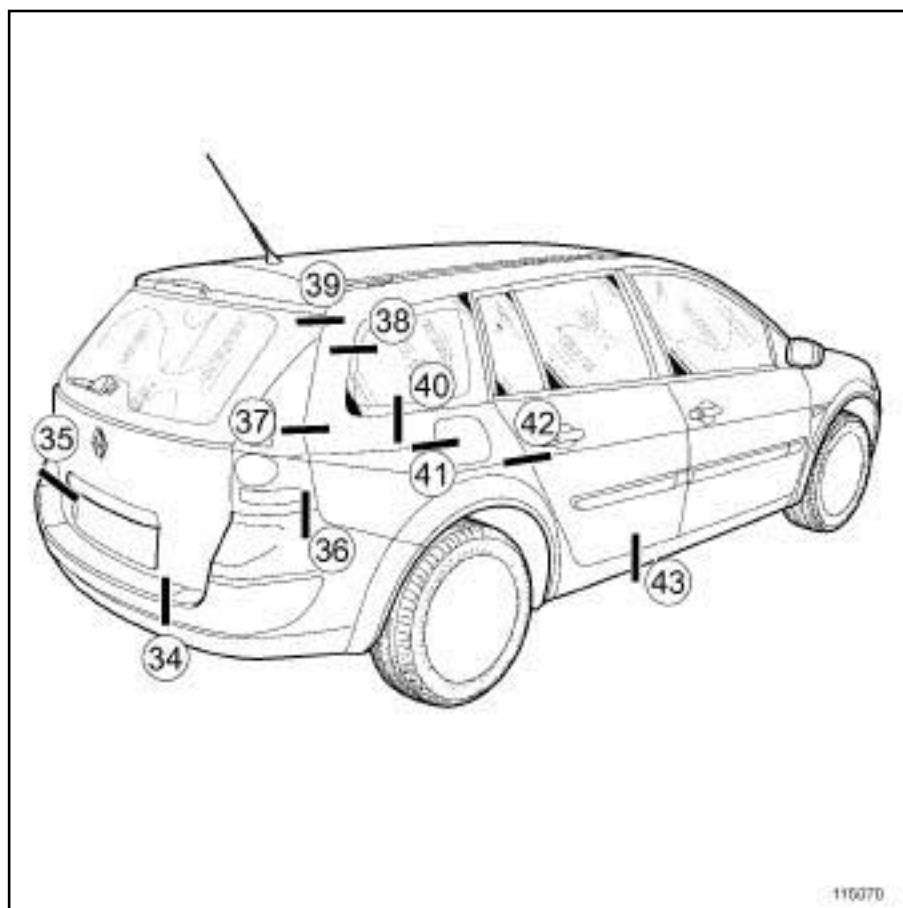


104485

104495

$$(X33) = 6.5 \pm 1.5$$

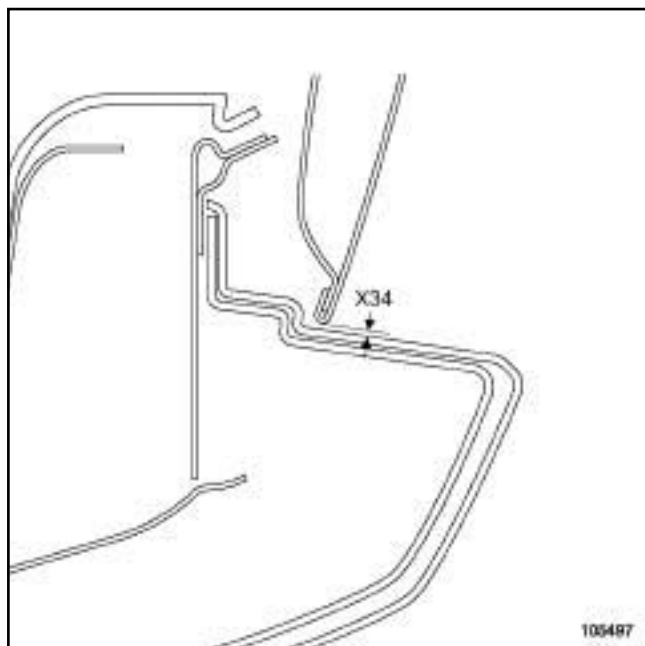
K84



115070

115070

Section 34

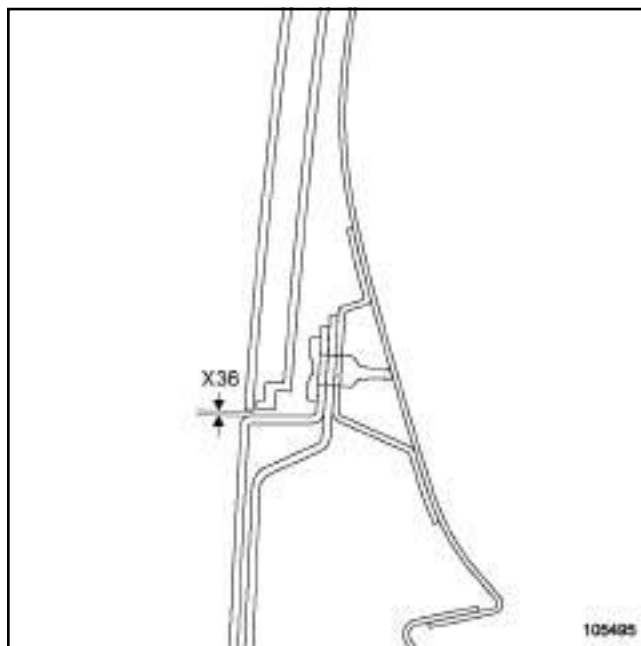


105487

105497

$$(X34) = 4.5 \pm 1.8$$

Section 36

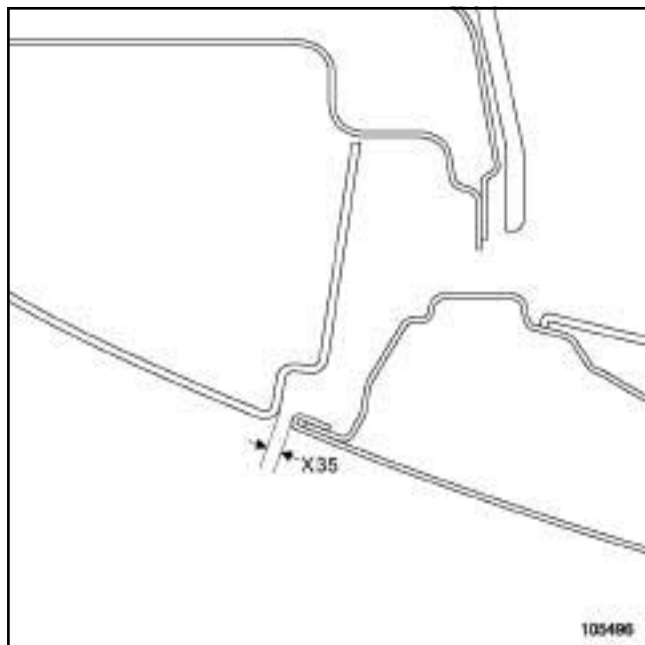


105485

105495

$$(X36) = 1.5 \pm 1.5$$

Section 35

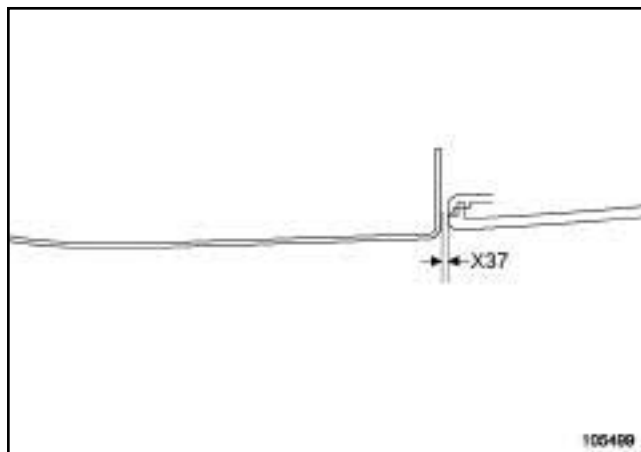


105486

105496

$$(X35) = 4.5 \pm 1.8$$

Section 37

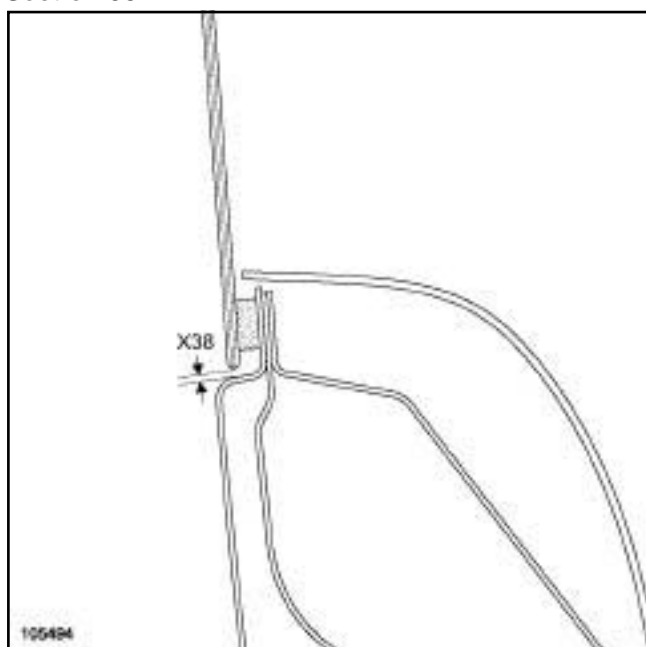


105488

105499

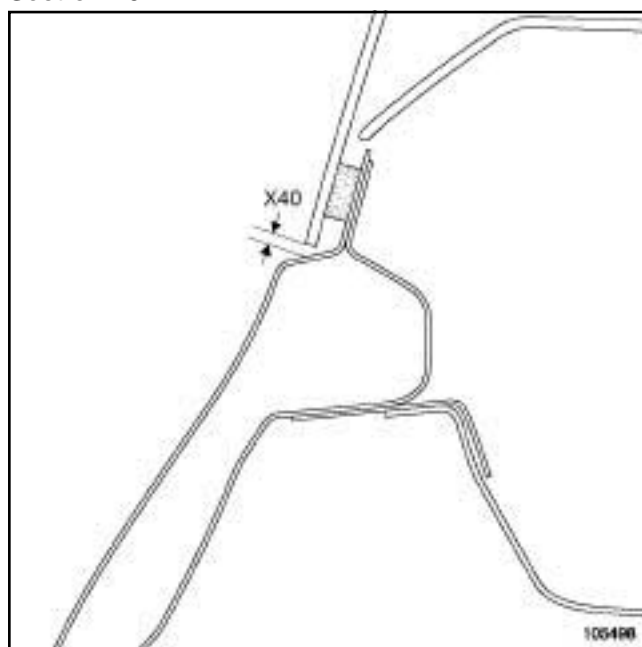
$$(X37) = 1.5 \pm 1$$

Section 38



$$(X38) = 3 \pm 1$$

Section 40



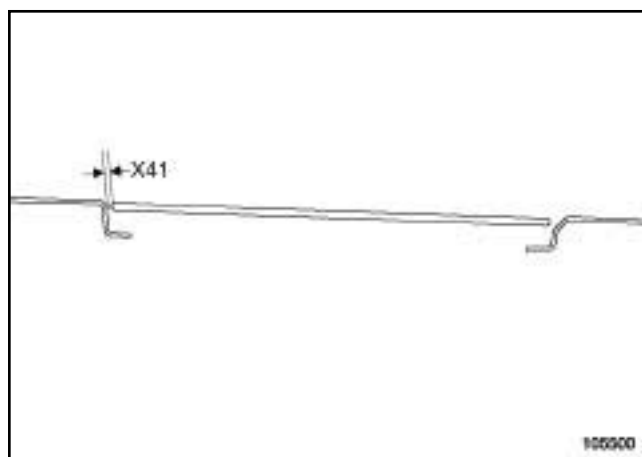
$$(X40) = 3 \pm 1$$

Section 39



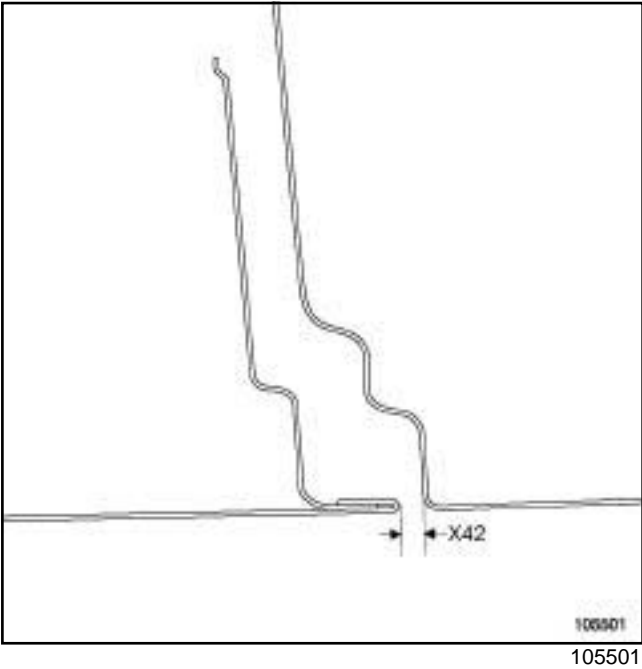
$$(X39) = 4.5 \pm 2$$

Section 41



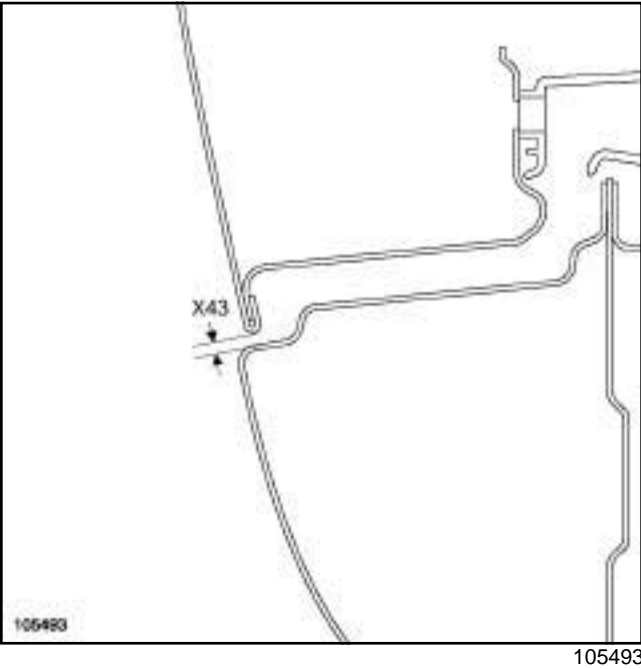
$$(X41) = 2.5 \pm 1$$

Section 42



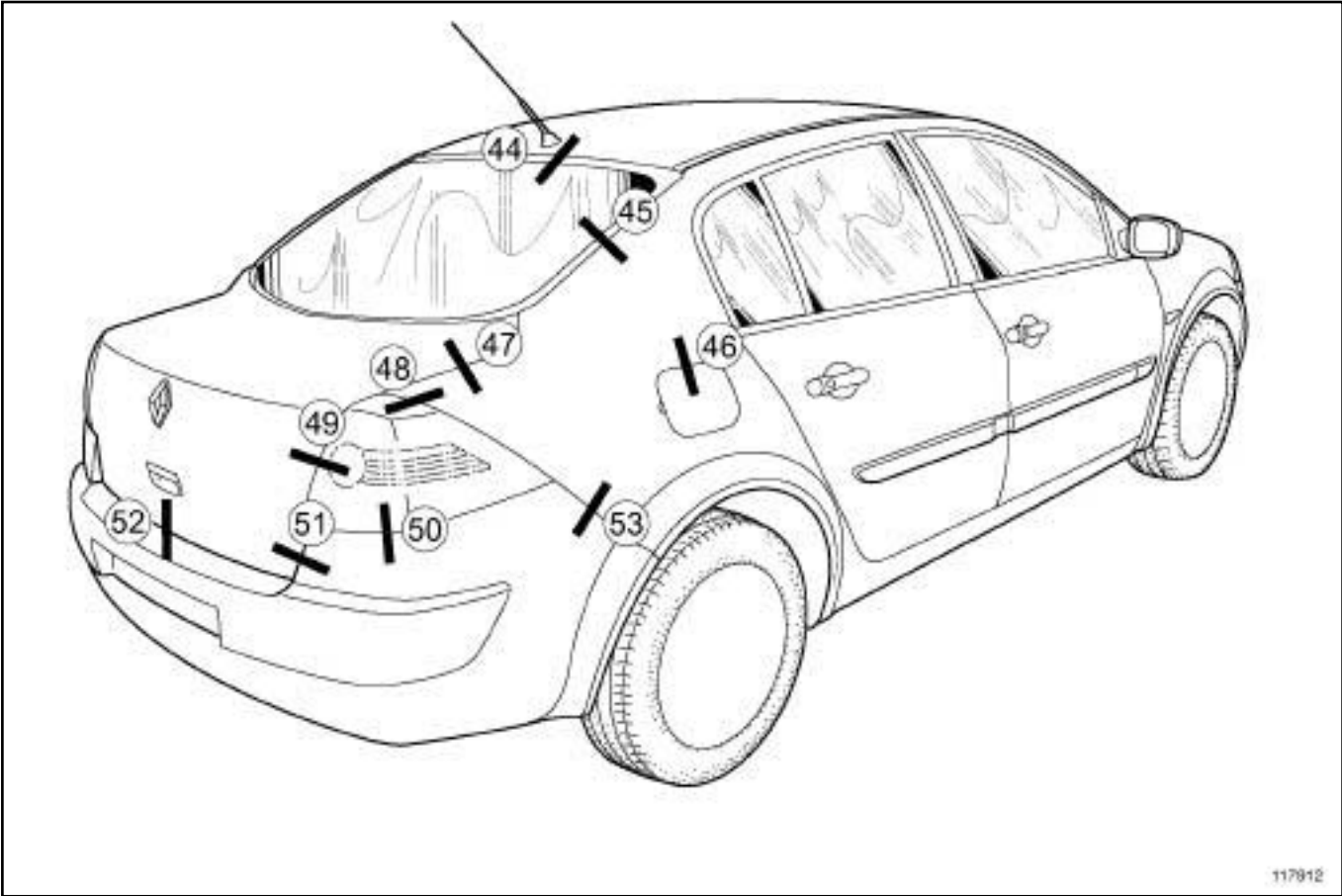
$(X42) = 4 \pm 1.3$

Section 43



$(X43) = 4.5 \pm 2$

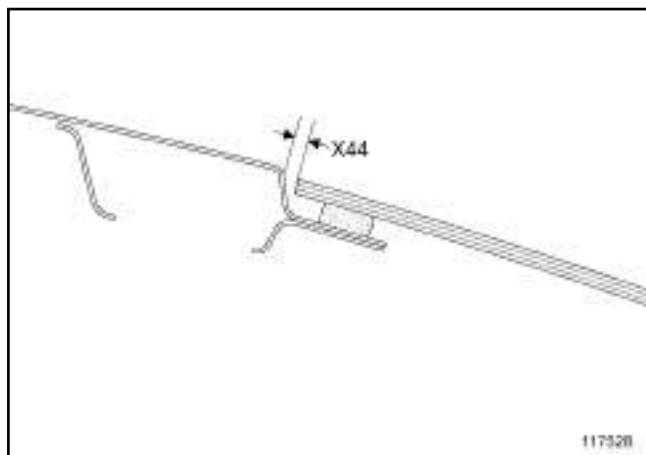
L84



117912

117912

Section 44



117528

117528

$$(X44) = 5 \pm 1.4$$

Section 45

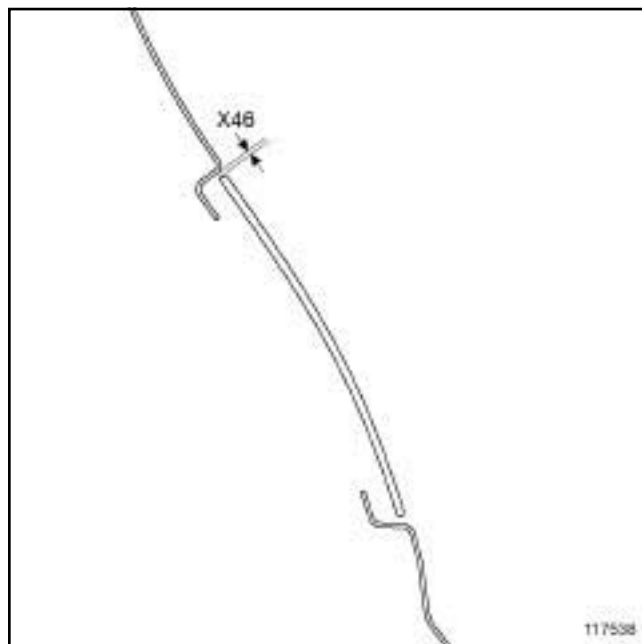


117530

117530

$$(X45) = 3 \pm 1.9$$

Section 46

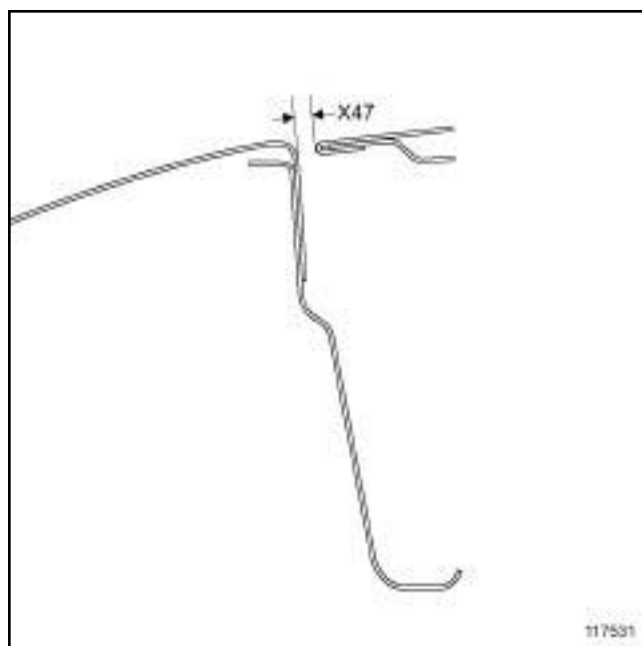


117538

117538

$$(X46) = 2.5 \pm 0.9$$

Section 47

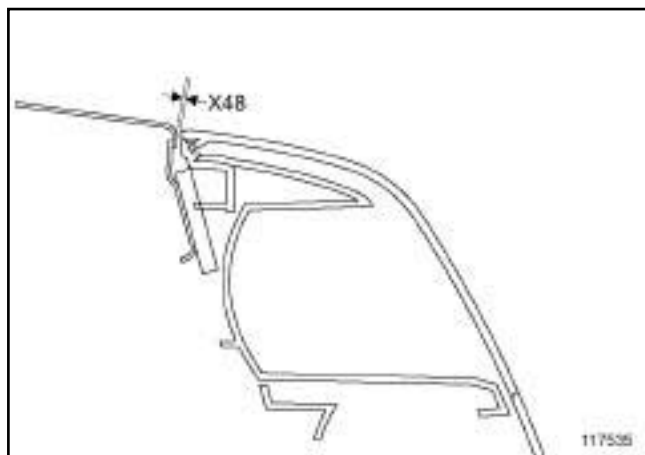


117531

117531

$$(X47) = 4 \pm 1.5$$

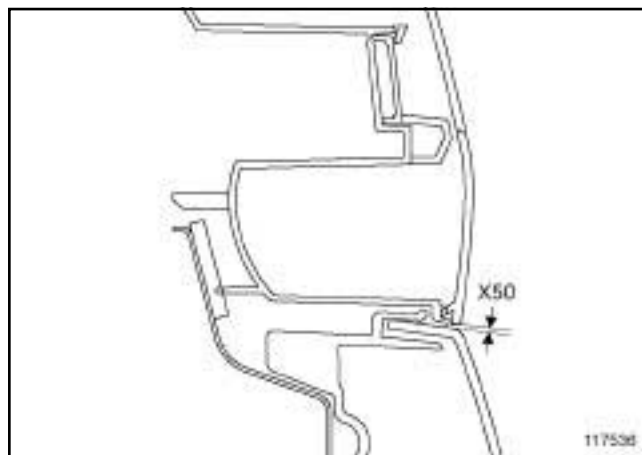
Section 48



117535

$$(X48) = 1.5 \pm 0.9$$

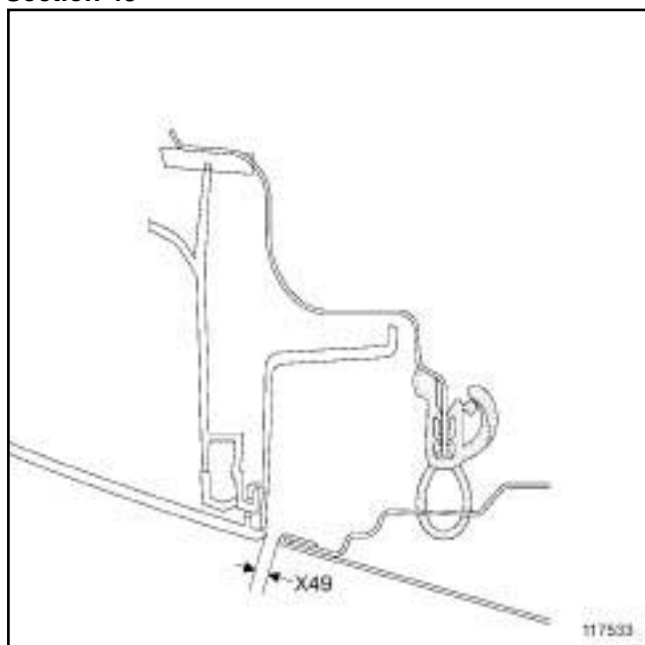
Section 50



117536

$$(X50) = 1.5 \pm 1.4$$

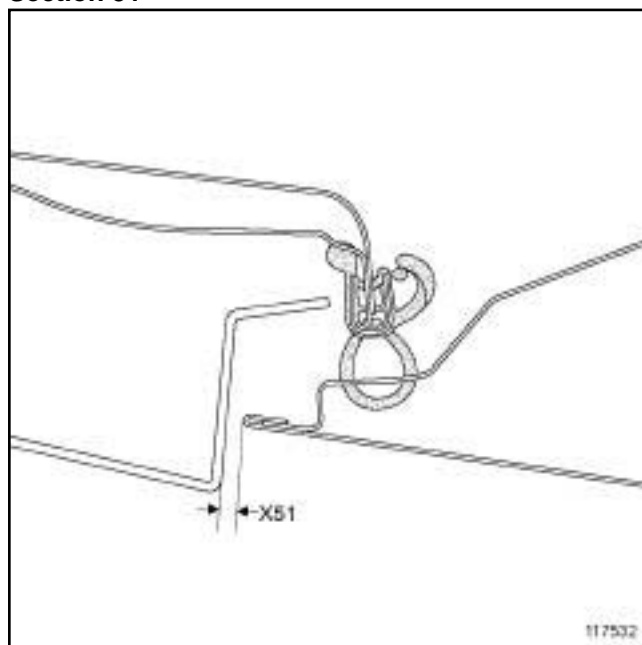
Section 49



117533

$$(X49) = 4 \pm 2$$

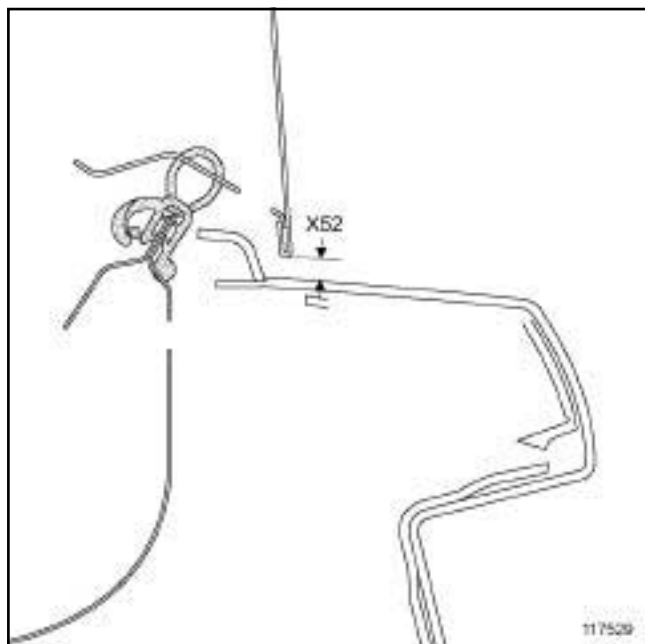
Section 51



117532

$$(X51) = 4 \pm 2$$

Section 52



117529

$$(X52) = 6 \pm 2.5$$

Section 53



117534

$$(X53) = 0.5 \pm 0.9$$

GENERAL INFORMATION

All information contained in these manuals is intended exclusively for automotive industry professionals.

The documentation is intended to cover all vehicles in the **RENAULT** range throughout the world, but may not cover equipment designed for use in specific countries.

The procedures and fault finding procedures recommended and described in this manual have been designed by automotive industry repair professionals.

1 - General recommendations

Observe basic principles of vehicle repair.

The quality of repair depends first and foremost on the care exercised by the person in carrying it out.

To ensure good repair:

- protect the sensitive areas of the vehicle (seats, steering wheel, wings, etc.),
- unless otherwise indicated, all repairs must be done with the ignition off,
- when welding on the vehicle, it is advisable to remove or disconnect components near the repair area that could be affected by the heat,
- use recommended professional products and original parts,
- observe the tightening torques,
- replace roll pins, self-locking or bonded nuts or bolts every time they are removed,
- take care with electrical and electronic components which cannot withstand excess voltage and improper handling; replace any electrical and electronic components which have experienced a voltage drop,
- make sure that the connectors are correctly clipped,
- do not pull on the wiring,
- check for the sealing plugs on the connectors,
- do not splash any liquid on the electrical and electronic components (computers, sensors, etc.),
- do not just replace parts one after the other, carry out detailed fault finding beforehand,
- carry out a final check before returning the vehicle to the customer (set the clock, check the alarm operation, check the lights and indicators etc.),
- clean and degrease the sections to be bonded (threads, stub axle splines) to ensure proper adherence,

- protect the accessories and timing belts, the electrical accessories (starter, blanking cover, electric power assisted steering pump) and the mating face to prevent diesel fuel spilling onto the clutch friction plate.

The design quality of our vehicles demands that nothing is left to chance in making a good repair, and it is essential to refit parts or components exactly as they were originally (for instance: heat shields, wiring routing, pipe routing, particularly in the area of the exhaust pipe).

Do not blow away asbestos particles or dust (brakes, clutch, etc.), vacuum them up or clean the component with a cleaning agent (such as a brake cleaning product).

Use professional products and apply them with care, for example do not apply too much sealing paste to the sealing surface.

Exhaust gases (petrol and diesel) are pollutants. Operate engines with care and always use exhaust gas extractors.

Ensure that there is no risk of a short circuit occurring when the electrical connections are reconnected (e.g. starter, alternator, etc.). Some points need greasing, others do not, therefore particular attention should be paid during refitting operations to ensure that they work properly under all conditions.

2 - Special tooling - ease of use

The repair procedures have been designed using special tools; they must therefore be carried out using these tools to ensure a high degree of working safety and quality of repair.

The equipment we have approved has undergone careful research and testing, and must be used and maintained with care.

3 - Reliability - updating

New repair procedures are constantly being developed in the interests of repair quality, either with new products (emission control, injection, electronics, etc.), or in fault finding. Be sure to consult the Workshop Repair Manuals or Technical Notes or fault finding summaries before any servicing operation.

Since vehicle specifications are subject to change during their commercial life, it is essential to check whether there are any updated Technical Notes when seeking information.

4 - Safety

Operations on certain equipment and certain parts (for instance: spring-shock absorber assembly, automatic transmission, brake system, ABS, airbag, common rail diesel injection, LPG, etc.) require particular attention to be paid to safety, cleanliness and care.

The safety symbol used in this manual indicates that special attention must be paid to the procedure or the tightening torque values.

Working safely:

- use suitable tools which are in good condition (use of « multi-purpose » tools, such as adjustable pliers, etc., should be avoided wherever possible),
- use supports and adopt a correct posture when performing heavy work or raising loads,
- make sure that the procedure used is not dangerous,
- Do not wear any jewellery or other small objects during an operation,
- use personal protection (gloves, safety glasses, work shoes, masks, skin barrier creams, etc.),
- always follow the safety instructions associated with the operation to be performed,
- do not smoke when working on vehicles,
- use smoke extractors (welding, exhaust gases, etc.),
- do not use harmful products in unventilated rooms,
- do not overstrain yourself or attempt inappropriate work operations,
- use axle stands when working under a vehicle raised on a jack,
- do not ingest any chemicals (brake fluid, coolant, etc.),
- do not open the cooling circuit when it is hot and pressurised,
- take care with components that are liable to start up suddenly (engine cooling fan, etc.).

Respecting the environment:

- do not allow waste refrigerants to escape into the atmosphere,
- do not dispose of waste vehicle fluids (oil, brake fluid, etc.) in drains,
- do not burn discarded products (tyres, etc.).

5 - Conclusion

The procedures contained in this document merit your attention. Please read them carefully in order to reduce the risk of injury, and avoid using incorrect procedures that could damage the vehicle or make it dangerous in use.

Following the recommended procedures will help you to provide a quality of service which will ensure the vehicles achieve the highest levels of performance and reliability.

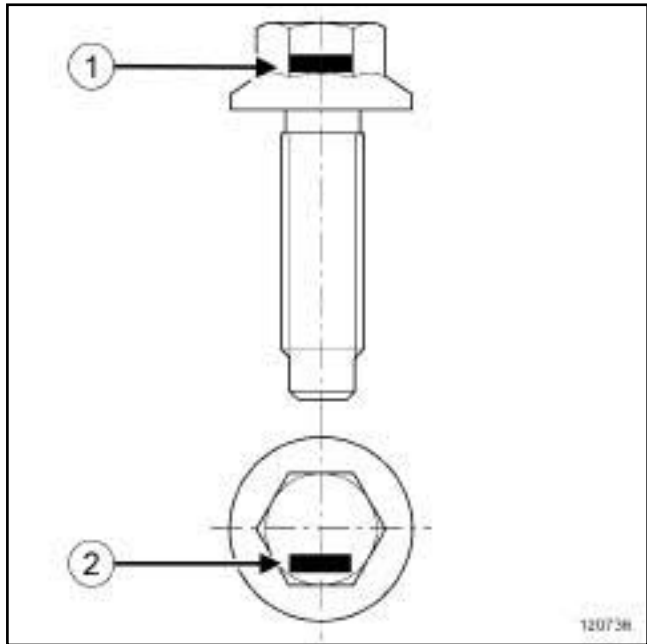
Maintenance and repair operations must be carried out under the proper conditions to ensure that our vehicles run safely and reliably.

I - TABLE OF STANDARD TORQUES

Fastenings		Standard tightening torque (N.m)
Diameter	Property class	
M6 *	8.8	10
M8 *	8.8	25
M10 *	8.8	50
M10	10.9	62
M12	10.9	105
M14	10.9	180
M16	10.9	280
M18	10.9	400

* Special notes on the electrical earths

Fastenings	Standard tightening torque (N.m)
Diameter	
M6	8
M8	21
M10	44



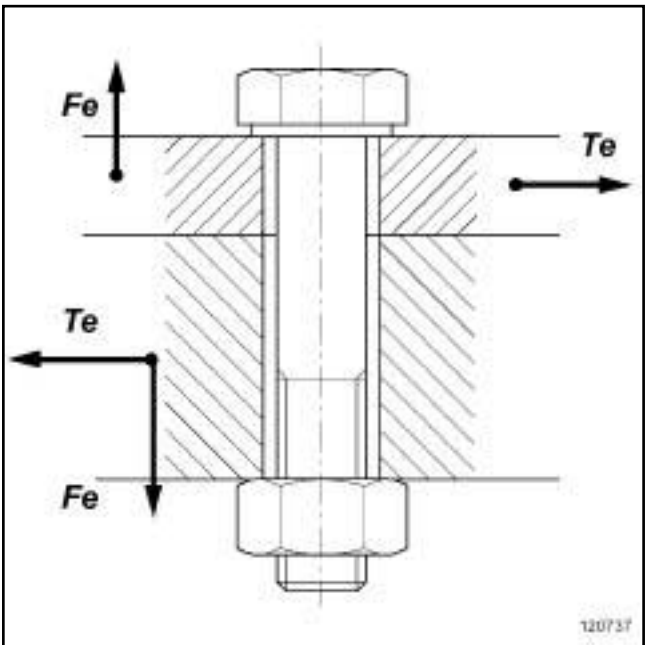
120736

The property class is indicated on the bolt (1) or (2) .

II - FUNCTION OF A BOLTED ASSEMBLY

The bolting system connects parts of an assembly to prevent their separation or sliding when submitted to exterior forces.

Exterior forces

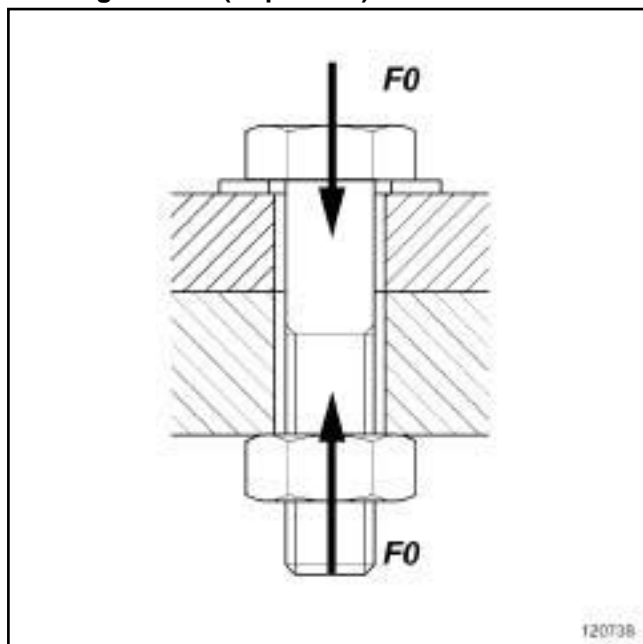


120737

The assembly is submitted to forces that are:

- static and / or dynamic,
- simple (e.g. simple traction),
- multiple (traction + flexion + torsion).

Creating tension (or preload) F_0

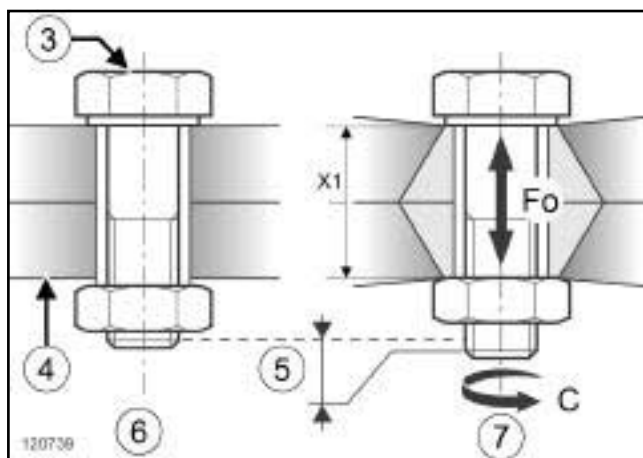


120738

The assembly is held together by the tension created in the bolt when it is tightened.

A reliable assembly is only possible if the correct tension is used:

- insufficient tension: risk of loosening,
- too much tension: risk of deformation of the parts to be assembled, or shearing of the bolt.



120739

- | | |
|-----------|-----------------------------|
| (3) | Bolt |
| (4) | Assembled components |
| (5) | Extension of the bolt |
| (6) | Non-tightened assembly |
| (7) | Tightened assembly |
| (X1) | compression of the assembly |
| (F_0) | tension |
| (C) | tightening torque |

Customer complaints resulting from incorrect tightening may be, following assembly, a safety issue (fire, loss of control of the vehicle etc.), an immobilising fault or a noise.

III - TIGHTENING PROCEDURES

The two controlled tightening procedures adapted to automotive repairs because of their low cost and simple operation are torque tightening and angle tightening (also called torque and angle).

1 - Torque tightening

This is the most commonly used procedure. It consists of tightening until a given resisting torque is reached, known as tightening torque.

The tightening torque is distributed in a large part as friction torque (under the head and in the thread) and in a small part as useful torque (to create the tension).

This practice spreads the tension significantly due to the variation in the friction coefficients from one assembly to another and the uncertainty of the tightening procedures and methods.

2 - Angle tightening

The principle consists of putting the parts of the assembly in contact using a mating torque (approximately 25 to 30% of the final torque) then to tighten to a determined angle.

This method, which is not dependent on the friction of the tightened assembly, gives more precise results than torque tightening.

IV - OBSERVING THE TIGHTENING TORQUES AND ANGLES

Bolted assemblies whose tightening torques and angles are explicitly specified in the removal / refitting procedures must be observed using the appropriate tools (torque wrench, angle measuring disc). Failure to observe this can lead to safety risks, immobilising faults or unwanted noises.

For other bolted assemblies, non-measured tightening (using standard spanners) is acceptable. Nevertheless, the corresponding tightening torque is indicated in the table of standard tightening torques.

V - RECOMMENDED TIGHTENING TOOLS

For measured tightening, the repairer must have available torque wrenches to tighten from **4 to 400 N.m** as well as an angle measuring disc.

The torque wrenches used may be click type or electronic.

MECHANICAL INTRODUCTION

Tightening torques: General information

01D

For example:

- 1 torque wrench **4 - 40 N.m**,
- 1 torque wrench **20 - 100 N.m**,
- 1 torque wrench **80 - 400 N.m**,
- 1 angle measurement disc.

The torque wrenches used must comply with the **ISO 6789** standard. They must be calibrated regularly following the supplier's recommendations using the appropriate procedures.

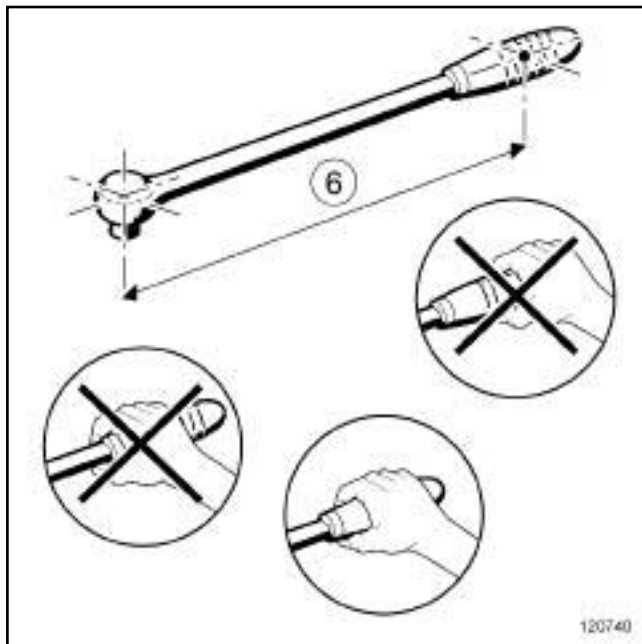
VI - PRECAUTIONS WHEN USING A CLICK TYPE TORQUE WRENCH

A click type torque wrench is a manual tightening tool. The trigger mechanism causes a break or disengagement of the wrench past a force threshold.

This threshold depends on the setting of the wrench but also depends on the way the wrench is handled.

When used following best practises, the accuracy of the tightness when using a click type torque wrench is $\pm 15\%$.

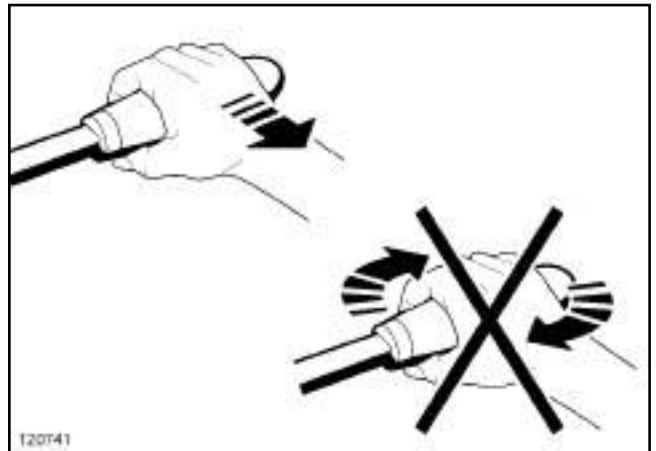
The instructions to be observed are:



120740

(6) lever arm

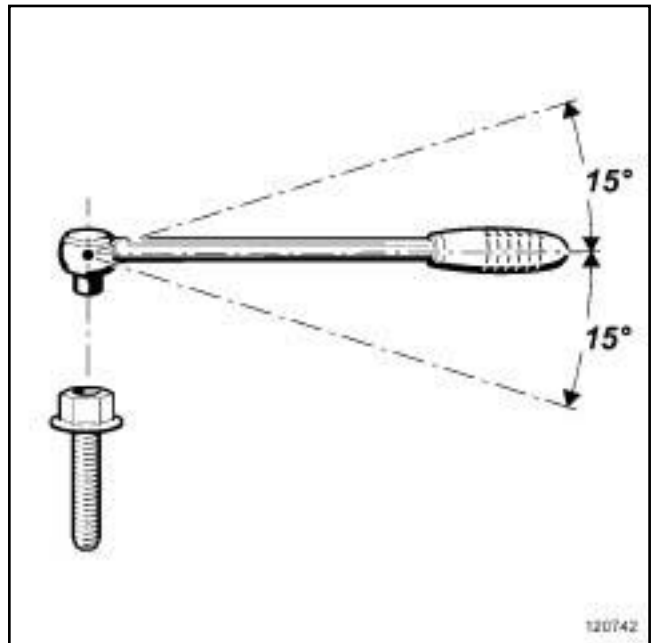
- Place the hand in the centre of the handle. An incorrectly positioned hand on the handle will alter the trigger threshold.



120741

- Pull the wrench gently and steadily, without applying any torsion. Excessive tightening speed as well as jerkiness are major causes of overtightening. Any torsion applied to the wrench will alter the trigger threshold.

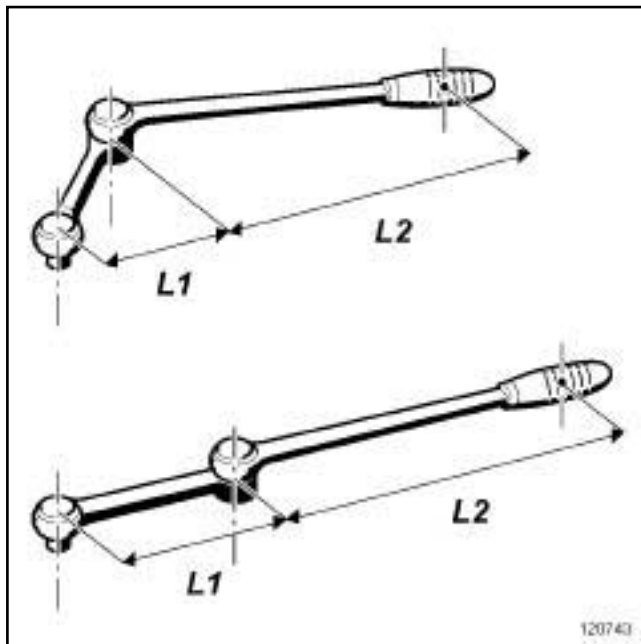
- Hold the wrench on the bolt using a minimum of effort. Any effort applied to the wrench head will alter the trigger threshold.



120742

- Apply the tightening effort perpendicular to the mounting observing a tolerance of $\pm 15^\circ$ relative to the perpendicularity. If the wrench is not perpendicular to the mounting axis, this will result in insufficient tightening.

- Stop tightening as soon as the wrench is triggered. Continued tightening after the wrench is triggered will lead to overtightening.



120743

If the length of the wrench is modified (extending the handle, adapting an end piece) it is essential to recalibrate the wrench to its new configuration.

Modifying the length of the wrench will modify its trigger threshold.

Use the formula: $C1 = CO \times L2 / (L1 + L2)$

- CO: torque to apply,
- C1: adjustment torque to be displayed on the wrench,
- L1: length of the extension,
- L2: length of the wrench.

Unless there are special instructions in the repair method, a universal joint (CARDAN joint type) should be used for measured tightening. Using a universal joint will result in a difference between the set torque of the wrench and the actual torque applied.

Before storing the wrench, loosen the adjustment spring completely. A wrench stored with a spring under tension will lose its tightening accuracy.

VII - PRECAUTIONS WHEN USING ELECTRONIC TORQUE WRENCHES

An electronic torque wrench is a manual tightening tool. The tightening torque and, depending on the model, the angle is read directly.

When used following best practises, the accuracy of the tightness when using an electronic torque wrench is $\pm 5\%$.

Electronic torque wrenches are not affected by the position of the operator's hand.

It is advisable to handle the wrench with care and to stop tightening when the required value is displayed on the wrench.

LIFTING EQUIPMENT

Vehicle: Towing and lifting

02A

Essential equipment

safety strap(s)

I - TOWING

WARNING

See the current towing regulations in each country.

Never use the drive shafts as attachment points.

The towing points may only be used for towing on the road.

Never use the towing points for removing the vehicle from a ditch or to lift the vehicle, either directly or indirectly.

Screw in and lock the towing ring before towing.

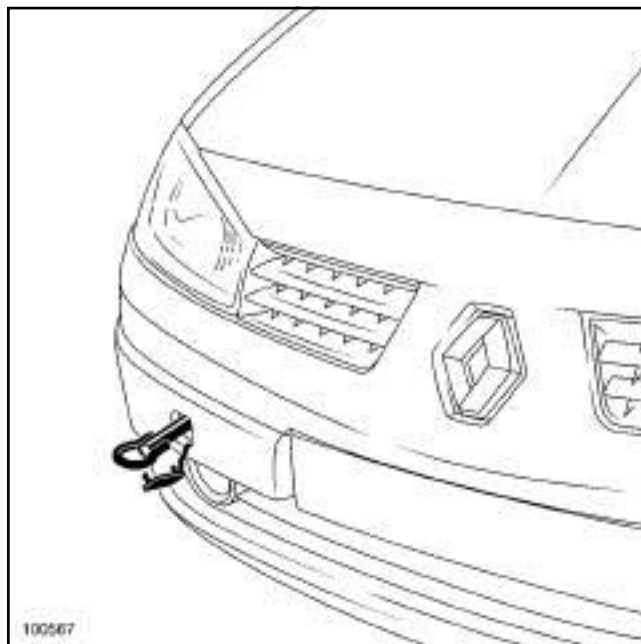
Vehicles fitted with automatic transmission:

- It is preferable to transport the vehicle on a flatbed or tow it by lifting the front wheels. As an exception the vehicle may be towed with the wheels on the ground but at a speed below 12 mph (20 km/h) and over a maximum distance of **18 miles (30 km)** (with the gear lever in neutral).

Vehicles fitted with Renault Card:

- If the vehicle battery is flat, the steering column remains locked. In this case, fit a new battery or connect to an electrical source to lock the airbag computer using the diagnostic tool (see **Fault finding - Replacement of components**) (88C, Airbags and pretensioners), which unlocks the steering column.
- If it is not possible to lock the airbag computer, the front of the vehicle must be lifted.

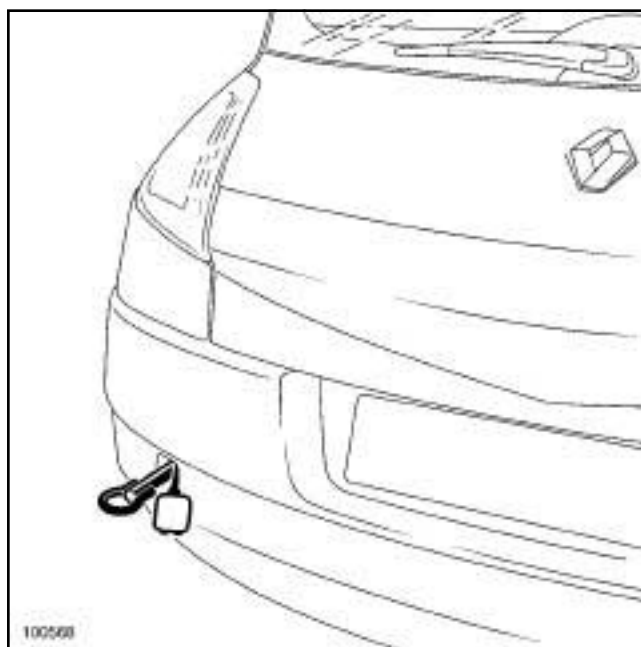
1 - Position of front attachment point



100567

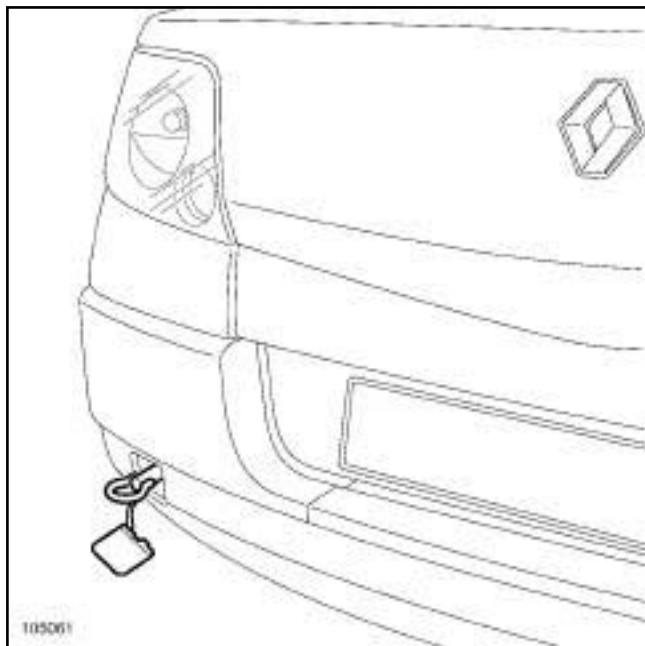
2 - Position of rear attachment point

B84 or C84 or G84 or S84



100568

E84



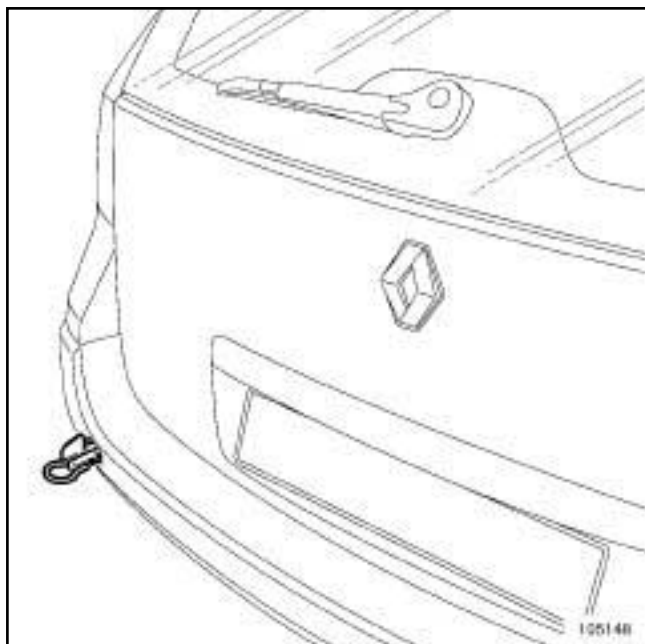
105061

L84



105147

K84



105148

II - LIFTING BY TROLLEY JACK

IMPORTANT

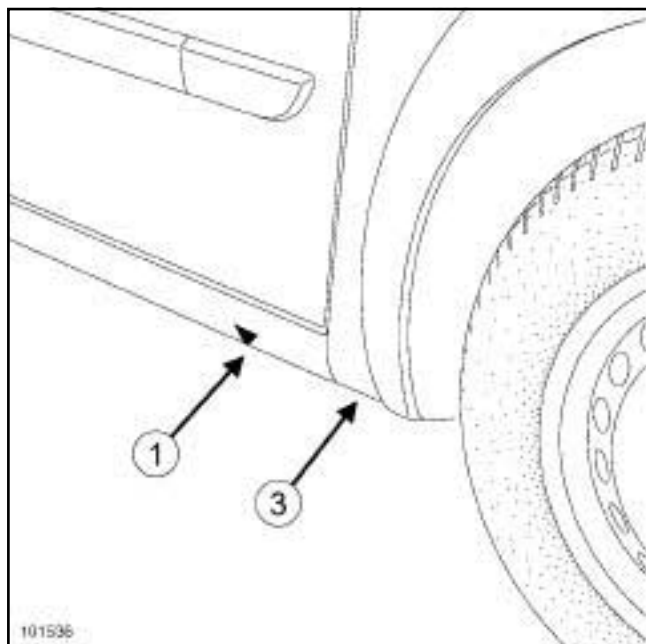
Appropriate axle stands must be used if a trolley jack is used.

WARNING

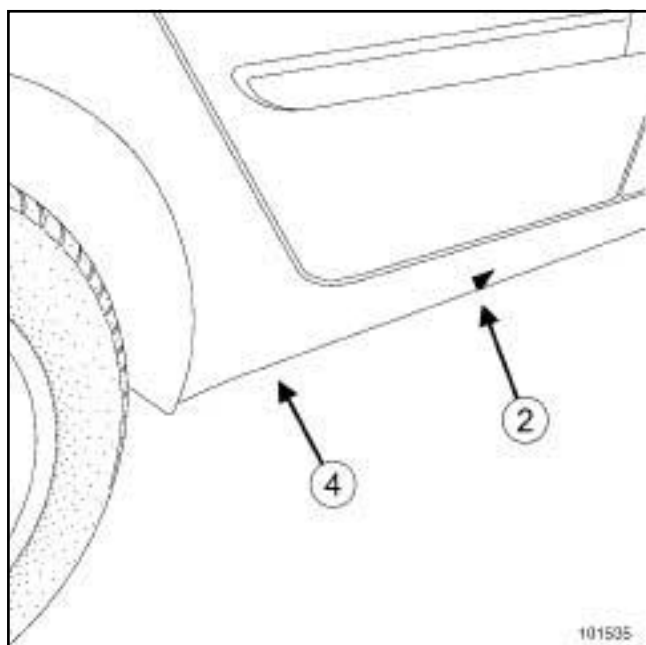
The subframe of this vehicle is protected by products providing a **12 year** anti-perforation warranty

After the operation, protect the hollow sections of the front side cross members and refit the blanking covers. Replace any damaged blanking covers.

Re-apply the anti-gravel protection if it has deteriorated.



101536



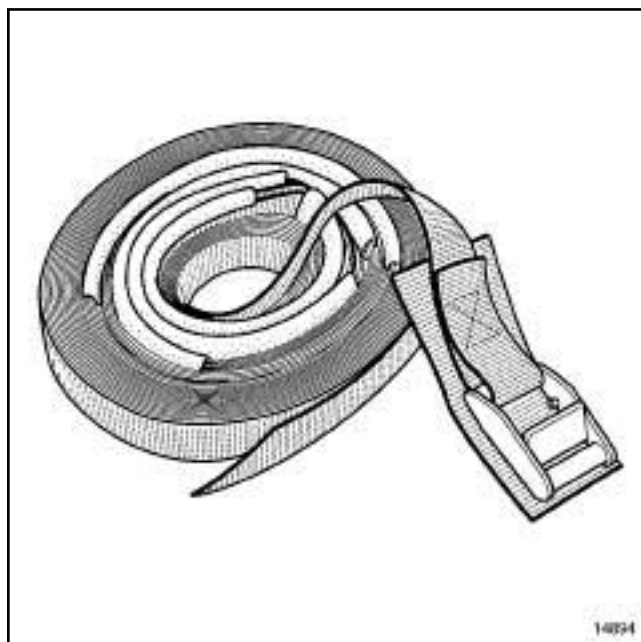
101535

To raise a front or rear wheel, place the jack at (1) or (2) .

To mount the vehicle on axle stands, the entire vehicle must be lifted on one side and axle stands must be placed under the body reinforcements which are used as jacking points at (3) or (4) .

III - LIFTING ON A LIFT

1 - Safety advice reminder



14894

If it is necessary to remove heavy components from the vehicle, it is preferable to use a four-post lift.

There is a danger that the vehicle will tilt on a two-post lift after certain components have been removed (e.g. engine and transmission assembly, rear axle, gear-box). Fit the **safety strap(s)** available from **Spare Parts Department**.

2 - Fitting the straps



14893

LIFTING EQUIPMENT

Vehicle: Towing and lifting

02A

For safety reasons, these straps must always be in perfect condition. Replace them as soon as they show signs of wear.

When fitting the straps, check that the seats and fragile parts of the vehicle are correctly protected.

a - Tilting towards the front

- Place the strap under the rear right-hand arm of the lift.
- Pass the strap through the inside of the vehicle.
- Pass the strap under the rear left-hand arm of the lift.
- Pass the strap through the inside of the vehicle again.
- Tighten the strap.

b - Tilting towards the rear

- Place the strap under the front right-hand arm of the lift.
- Pass the strap through the inside of the vehicle.
- Pass the strap under the front left-hand arm of the lift.
- Pass the strap through the inside of the vehicle again.
- Tighten the strap.

3 - Permitted jacking points

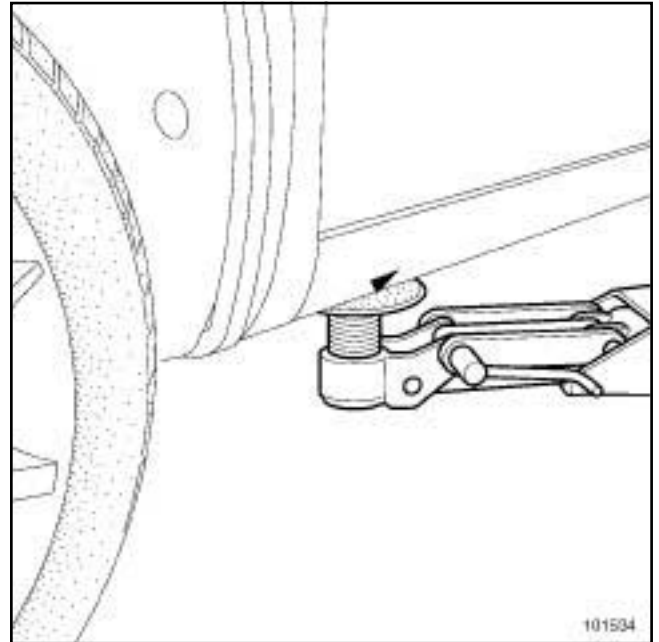
To raise the vehicle, position the pads of the lift arms as indicated below taking care not to damage the end of the front wing or the underside of the sill panel.

IMPORTANT

Only the jacking points described in this section allow the vehicle to be raised in complete safety.

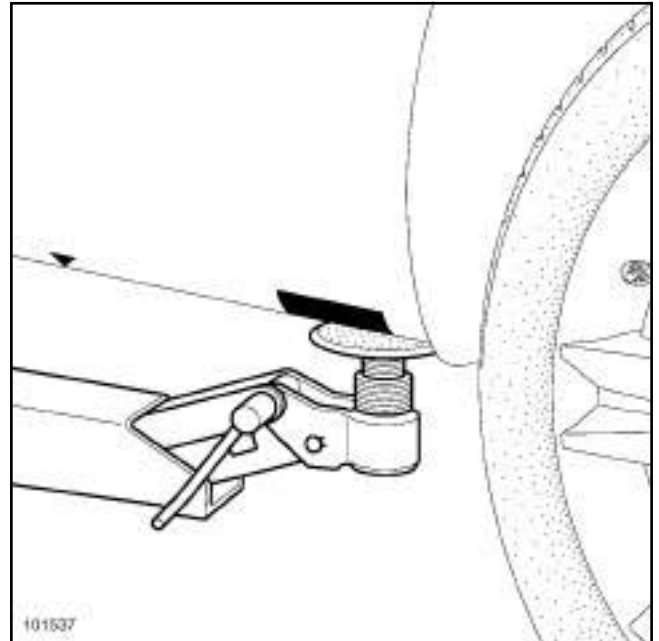
Do not raise the vehicle using points other than those described in this section.

Front lifting points



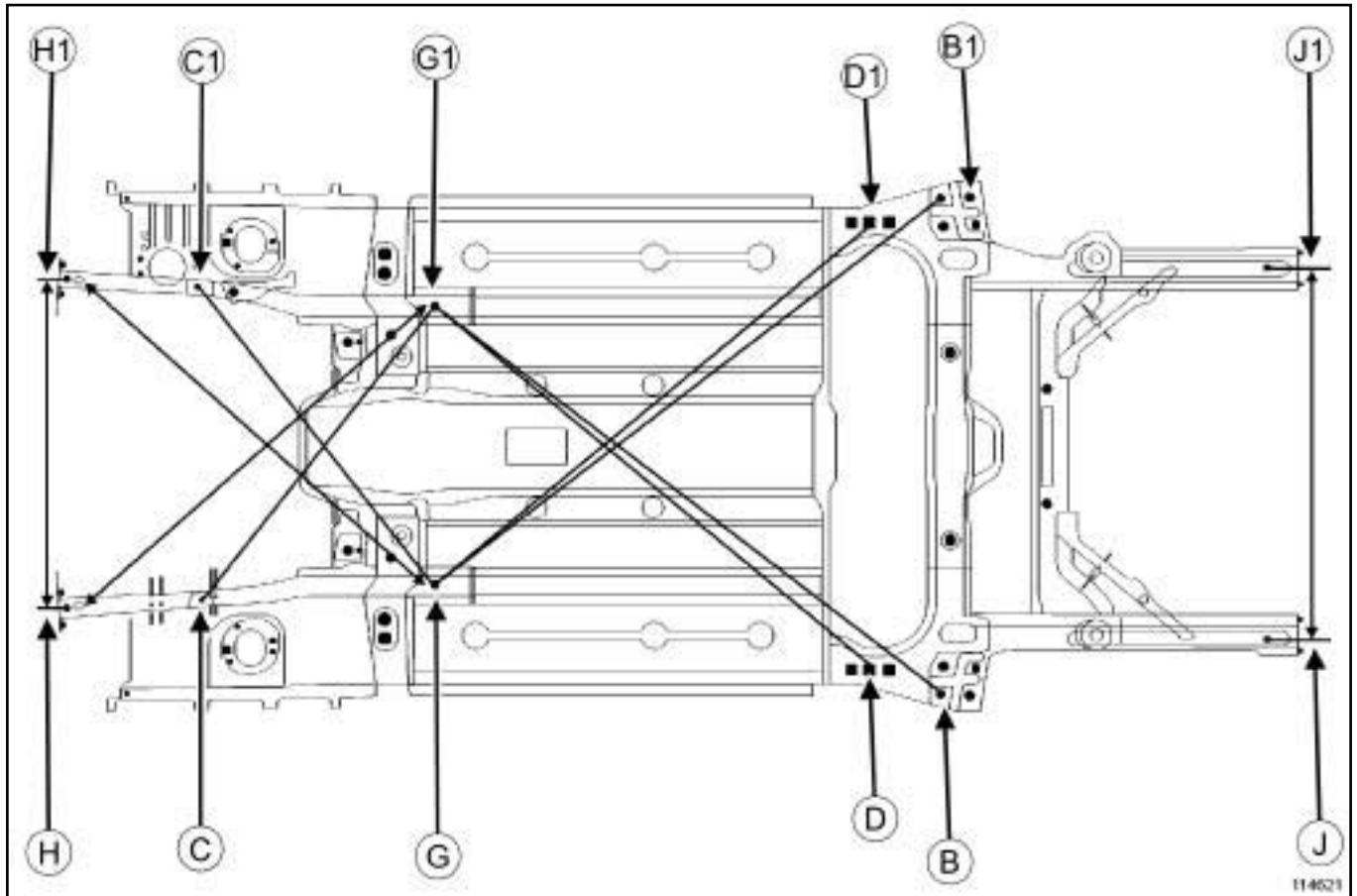
101534

Rear lifting points



101537

CHECKING THE SUBFRAME



114621



Note:

The front and rear end points are not symmetrical. To check them, measure the centre-to-centre distance of these points.

1 - Chronological order of checks

☐ FRONTAL impact

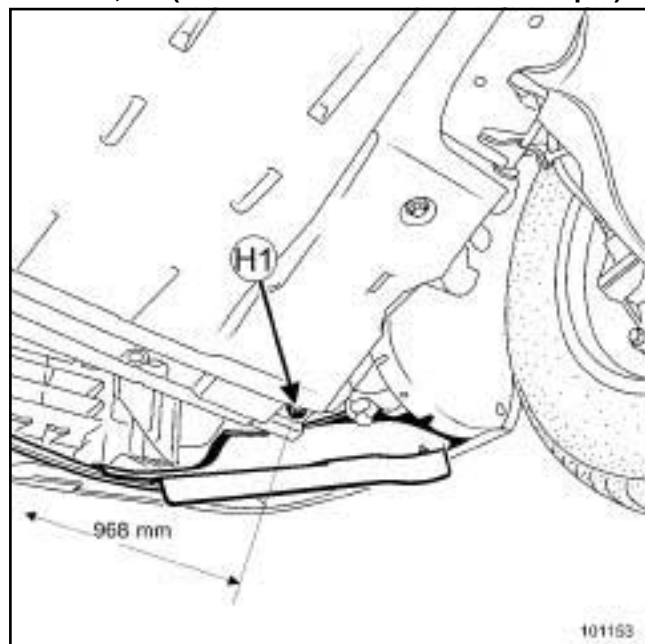
- 1: $(B) - (G1) = (B1) - (G)$
- 2: $(G1) - (C) = (G) - (C1)$
- 3: $(G1) - (H) = 1391 \text{ mm}$
- 4: $(G) - (H1) = 968 \text{ mm}$

☐ REAR impact

- 1: $(G) - (B1) = (G1) - (B)$
- 2: $(G) - (D1) = (G1) - (D)$
- 3: $(H) - (H1) = 968 \text{ mm}$
- 4: $(J) - (J1) = 1102 \text{ mm}$

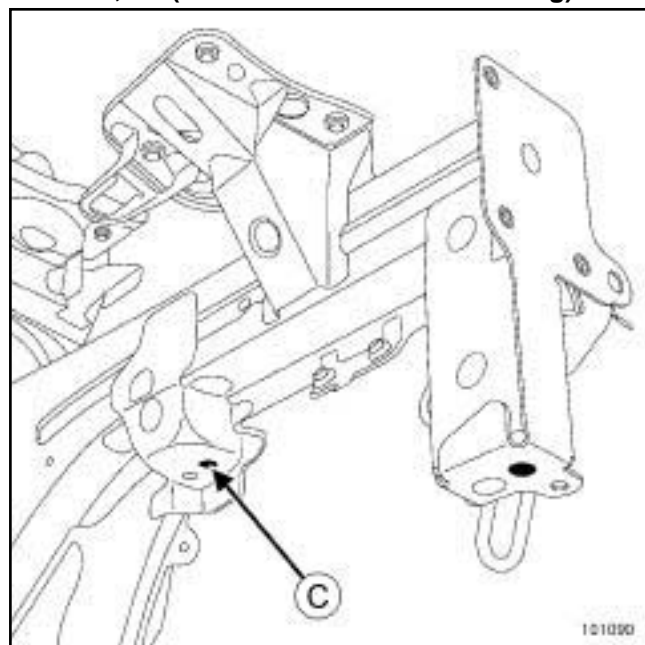
2 - Detailed view of inspection points

Points H, H1 (front side member front leader pin)



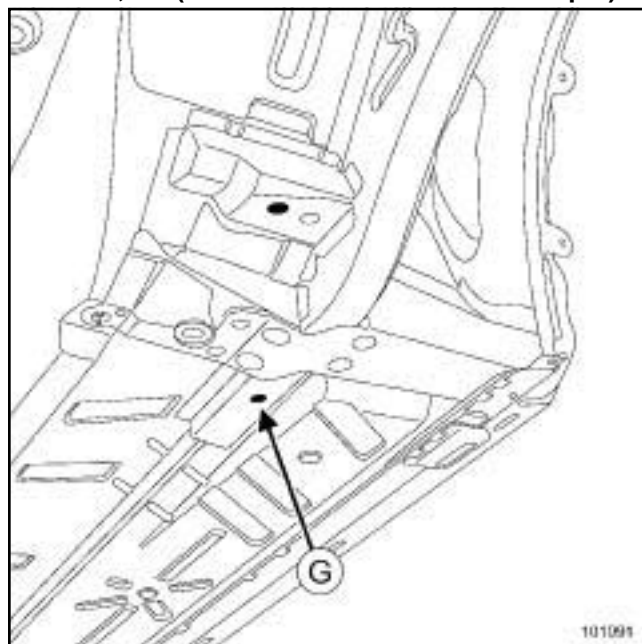
101153

Points C, C1 (front subframe front mounting)



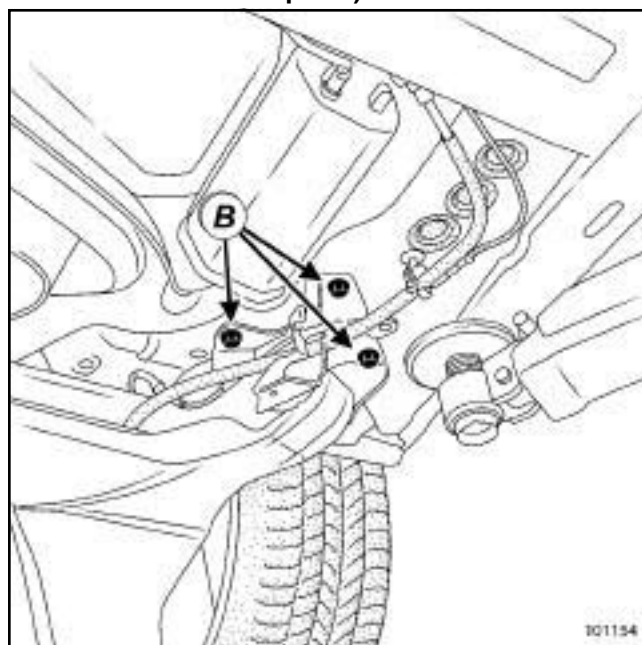
101090

Points G, G1 (front side member rear leader pin)



101091

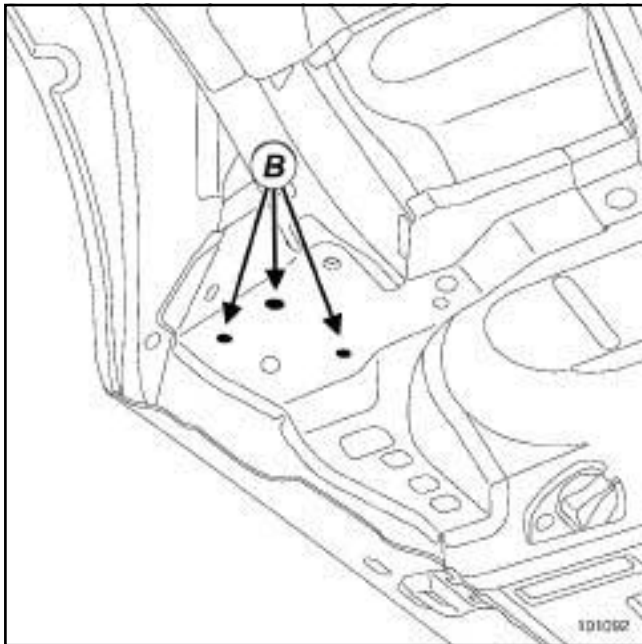
Points B, B1 (rear axle assembly front mounting with rear subframe in place)



101154

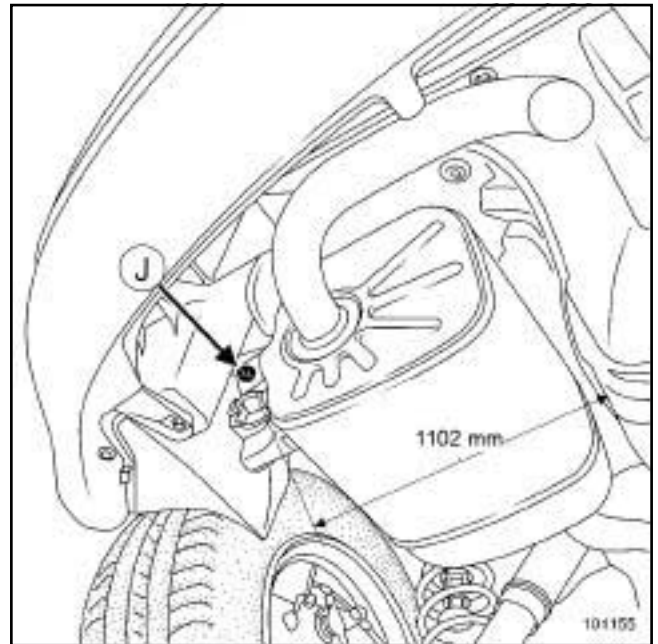
Points B, B1 (rear axle mounting with rear

subframe removed)



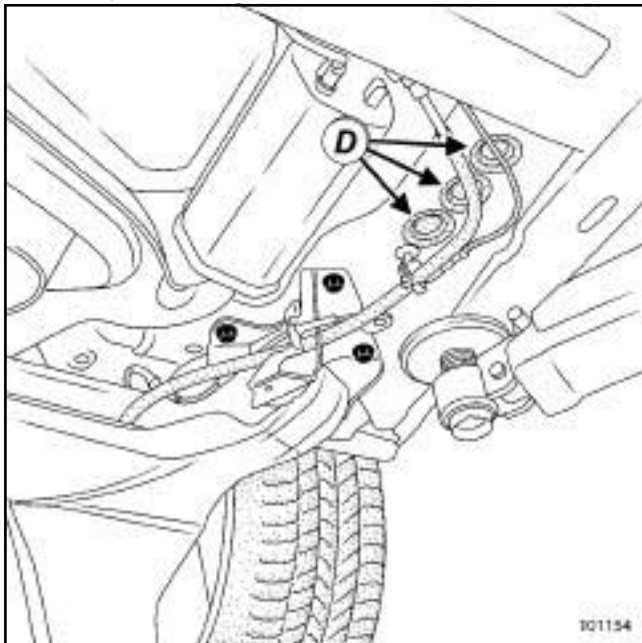
101092

Points J, J1 (rear side member rear leader pin)



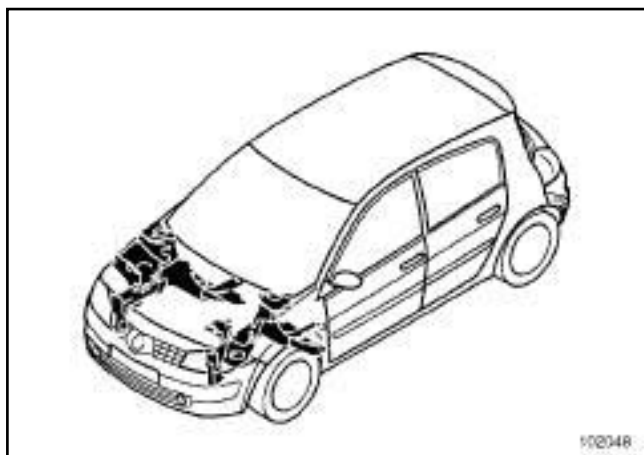
101155

Points D, D1



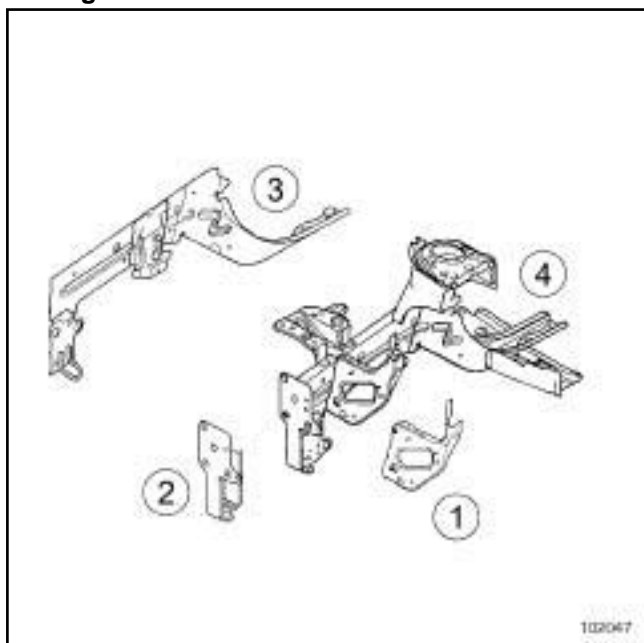
101154





102048

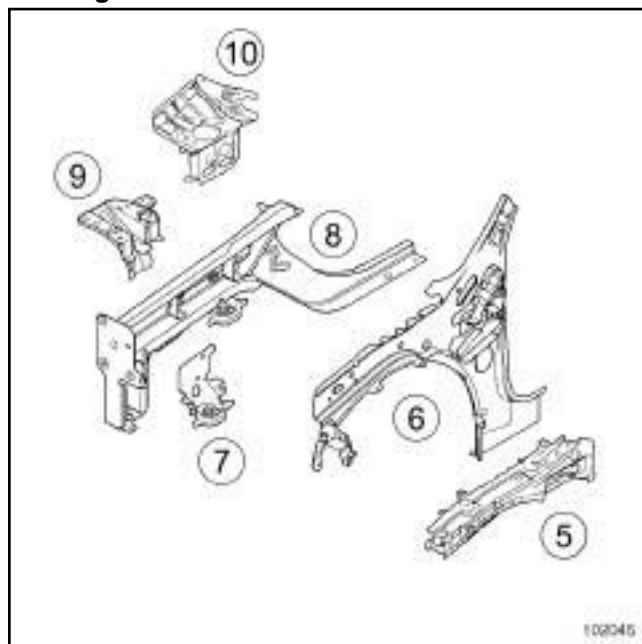
102048

1st degree

102047

102047

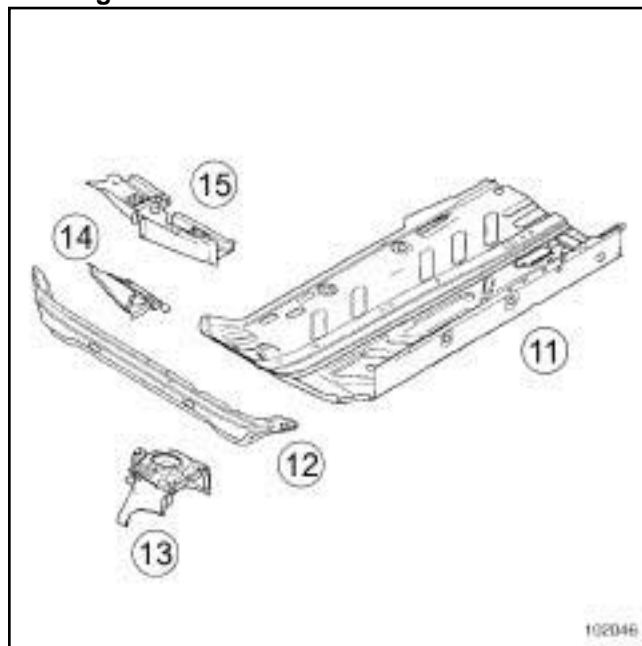
- (1) Front end side cross member,
- (2) Radiator cross member mounting,
- (3) Front side member closure panel,
- (4) Front half unit.

2nd degree

102045

102045

- (5) Scuttle side panel upper stiffener,
- (6) Scuttle side panel,
- (7) Front subframe front assembly mounting unit,
- (8) Front section of front side member,
- (9) Battery tray mounting,
- (10) Engine stand.

3rd degree

102046

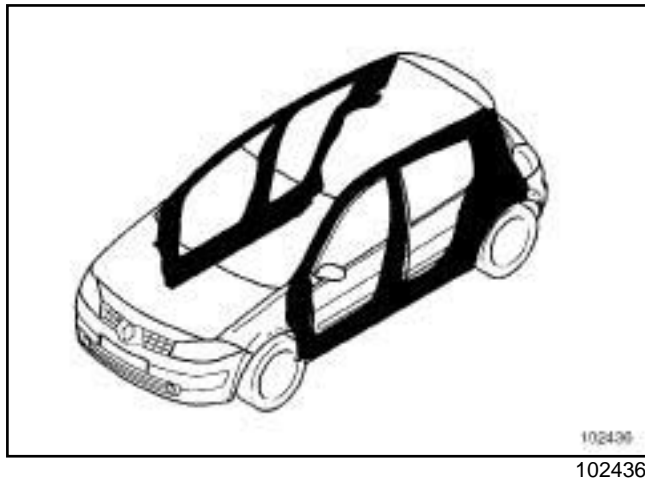
102046

- (11) Centre floor,
- (12) Bulkhead lower cross member,
- (13) Front wheel arch,

Vehicle damaged at front: Description

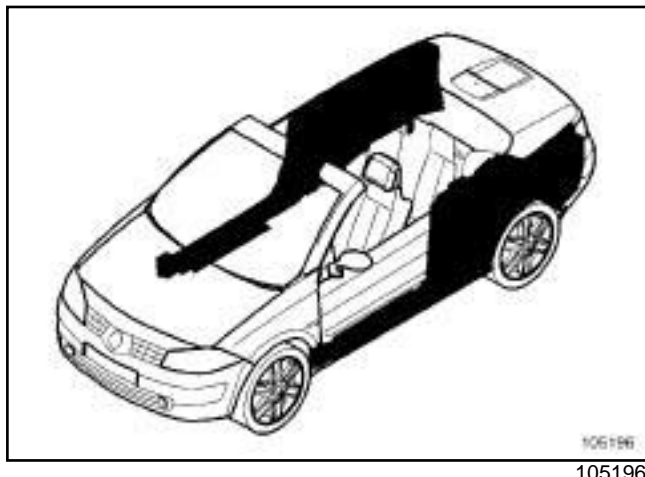
- (14) Front subframe rear unit,
- (15) Centre floor front side cross member.

B84 or C84 or G84 or K84 or L84 or S84



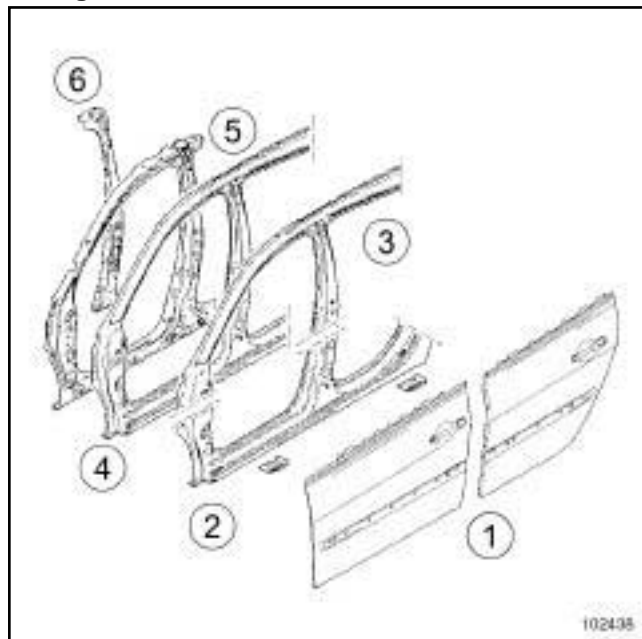
102436

E84



105196

B84 or C84 or G84 or K84 or L84 or S84

1st degree

102438

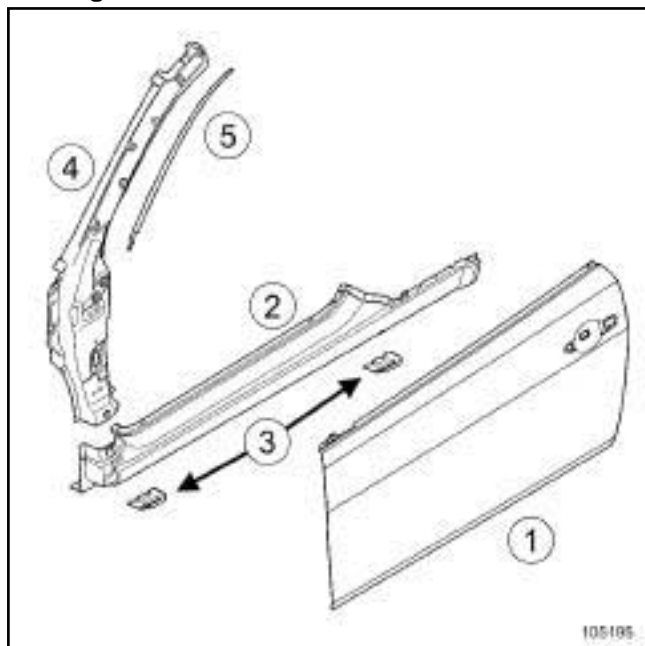
- (1) Front door panel*,
- (2) Sill panel*,
- (3) Upper body*,
- (4) Body side front section*,
- (5) Body side front section reinforcement,
- (6) B-pillar.

Note:

The parts marked with an asterisk are different on **3-door versions** but do not change the part combinations for impacts.

Vehicle damaged at side: Description

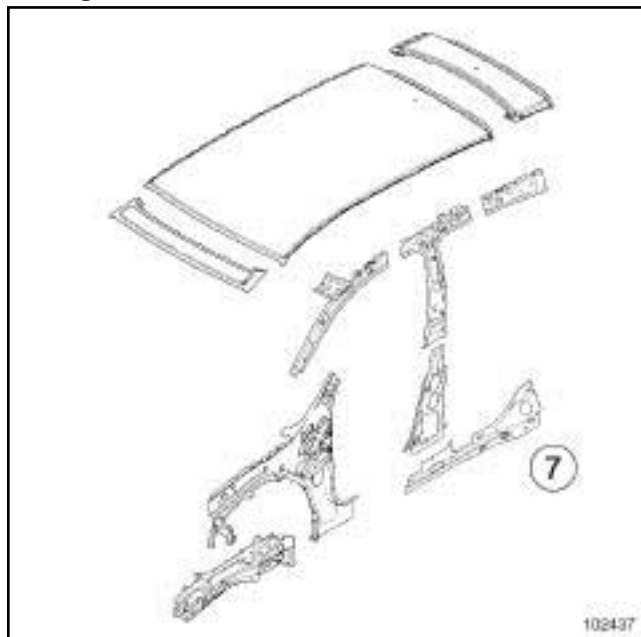
E84

1st degree

105195

- (1) Front door panel,
- (2) Sill panel,
- (3) Jacking point,
- (4) A-pillar,
- (5) Double sealing support.

B84 or C84 or G84 or K84 or L84 or S84

2nd degree

102437

102437

- (7) Rear inner sill panel*.

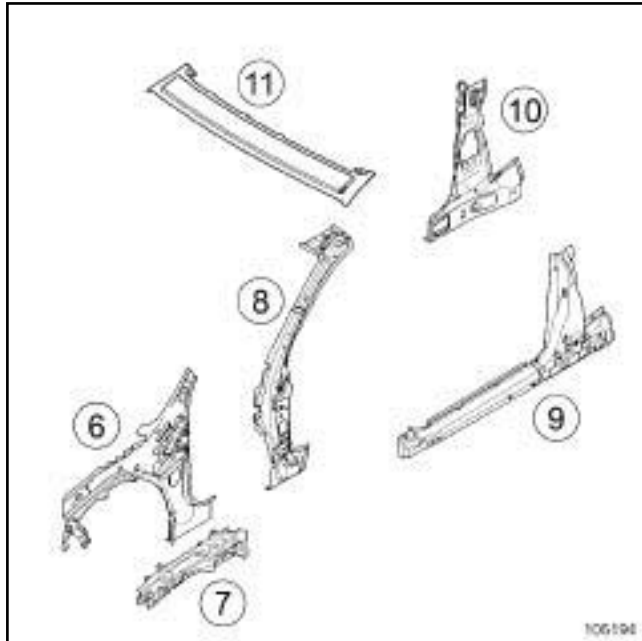
Note:

The parts marked with an asterisk are different on **3-door versions** but do not change the part combinations for impacts.

Vehicle damaged at side: Description

E84

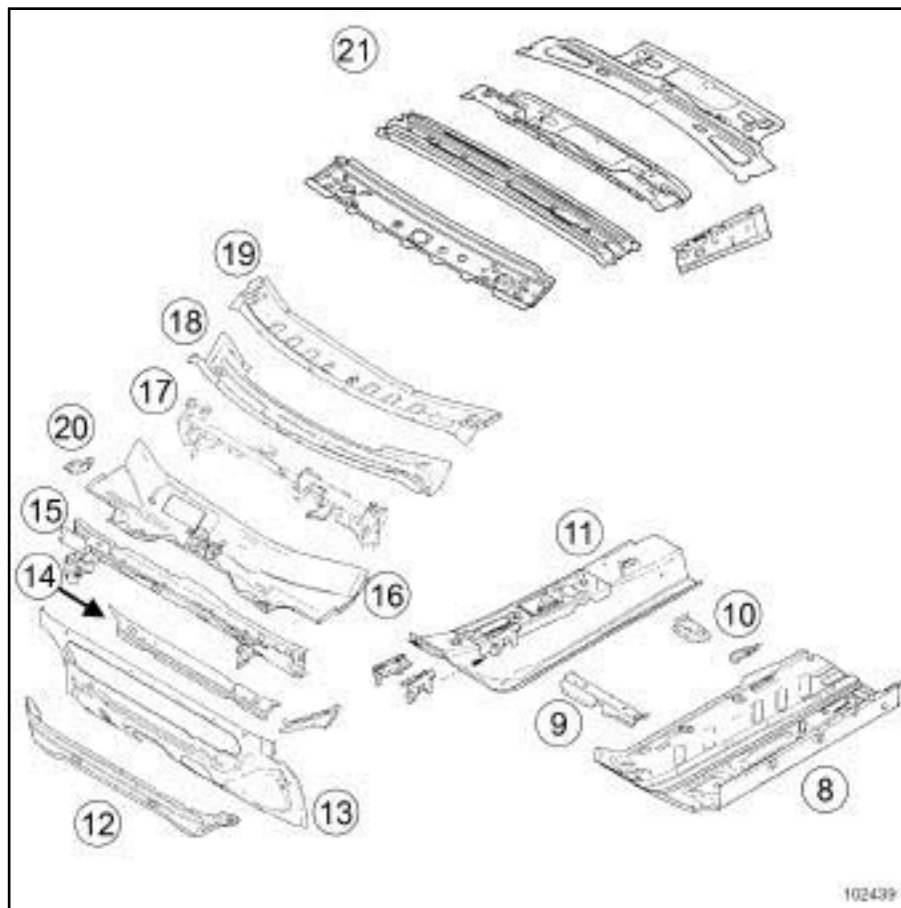
2nd degree



105194

- (6) Scuttle side panel,
- (7) Scuttle side panel reinforcement,
- (8) A-pillar reinforcement,
- (9) Sill panel reinforcement,
- (10) B-pillar lining,
- (11) Roof.

B84 or C84 or G84 or K84 or L84 or S84

3rd degree

102439

102439

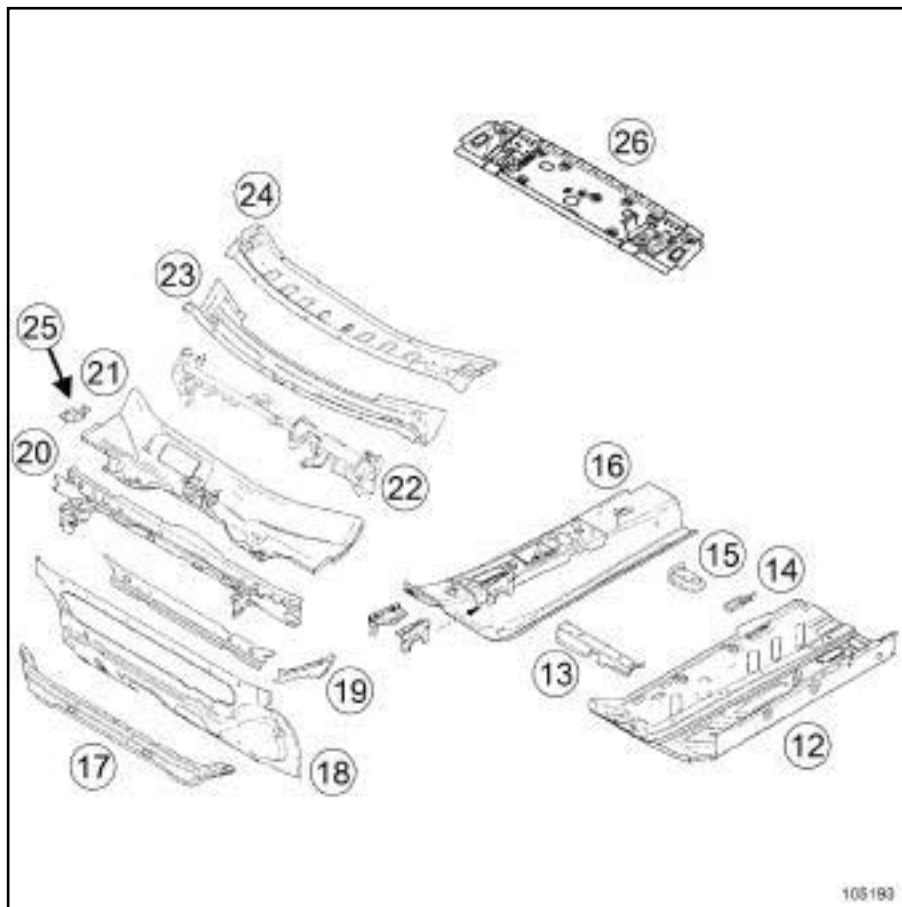
Vehicle damaged at side: Description

- (8) Centre floor side section,
- (9) Front cross member under front seat,
- (10) Front seat rear assembly mounting unit,
- (11) Tunnel,
- (12) Bulkhead lower cross member,
- (13) Bulkhead,
- (14) Bulkhead reinforcement,
- (15) Bulkhead upper cross member,
- (16) Heater bulkhead,

- (17) Dashboard cross member,
- (18) Windscreen aperture lower cross member,
- (19) Windscreen aperture lower cross member closure panel,
- (20) Windscreen wiper mounting,
- (21) Roof cross members.

E84

3 rd degree



105193

105193

- (12) Centre floor side section,
- (13) Front cross member under front seat,
- (14) Front seat rear mounting exterior unit,
- (15) Front seat rear mounting interior unit,
- (16) Tunnel,
- (17) Bulkhead lower cross member,
- (18) Bulkhead,
- (19) Bulkhead reinforcements,
- (20) Bulkhead upper cross member,

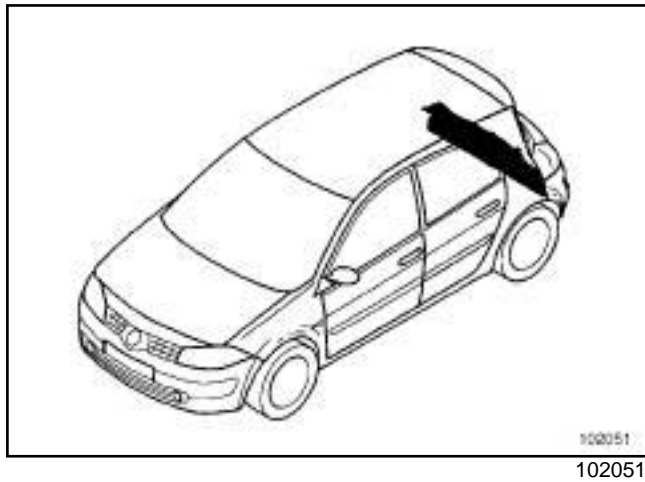
- (21) Heater bulkhead,
- (22) Dashboard cross member,
- (23) Windscreen aperture lower cross member,
- (24) Windscreen aperture lower cross member closure panel,
- (25) Windscreen wiper mounting,
- (26) Roof cross member.

COLLISION

Vehicle damaged at rear: Description

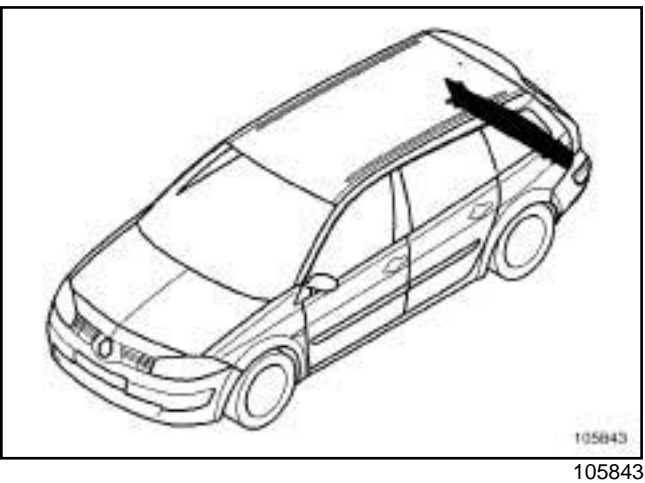
03B

B84 or C84 or G84 or S84



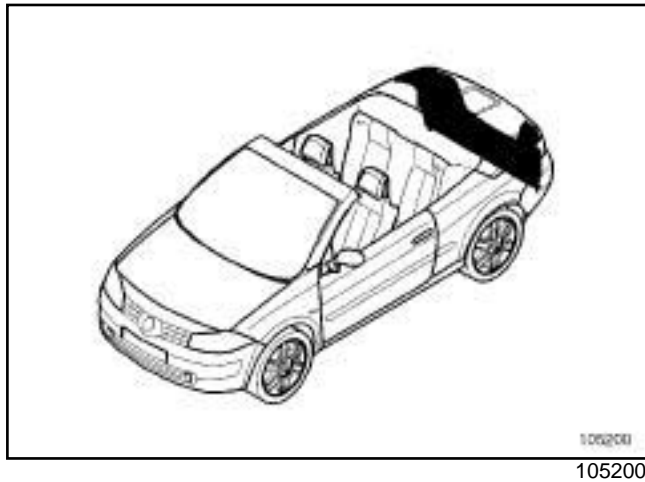
102051

K84



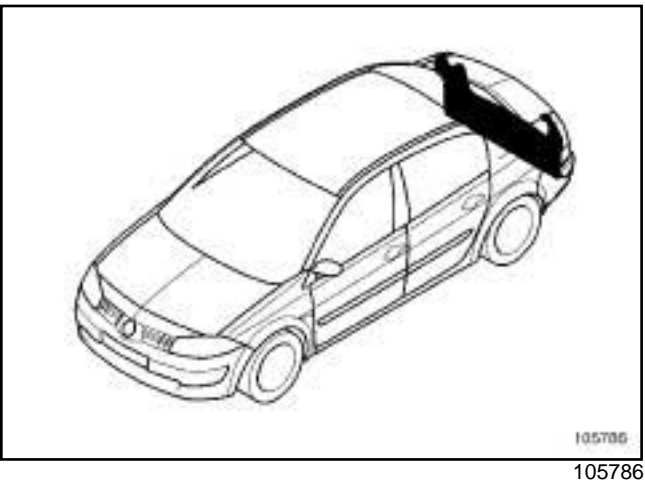
105843

E84



105200

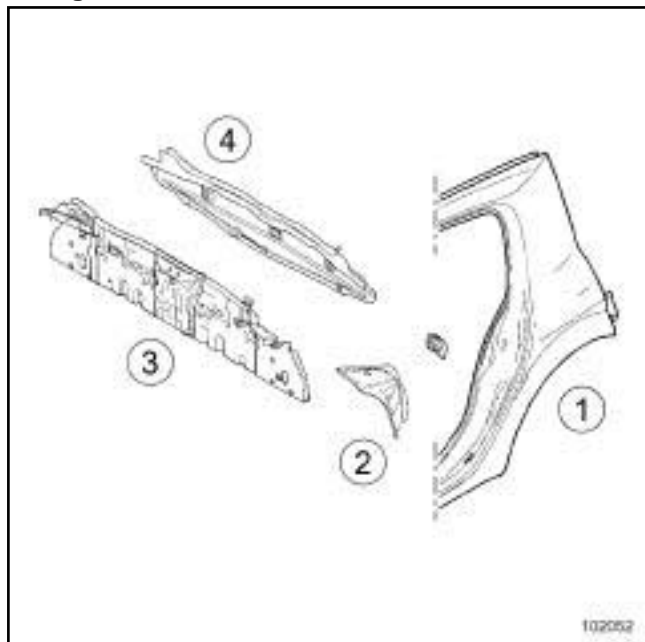
L84



105786

Vehicle damaged at rear: Description

B84 or C84 or G84 or S84

1st degree

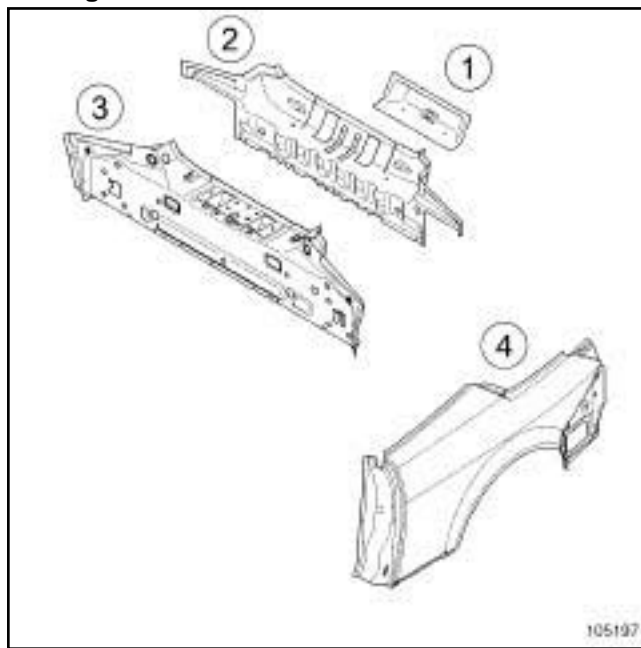
102052

- (1) Rear wing panel*,
- (2) Rear wheel arch extension*,
- (3) Rear end panel assembly,
- (4) Rear end panel.

Note:

The parts marked with an asterisk are different on **3-door versions** but do not change the part combinations for impacts.

E84

1st degree

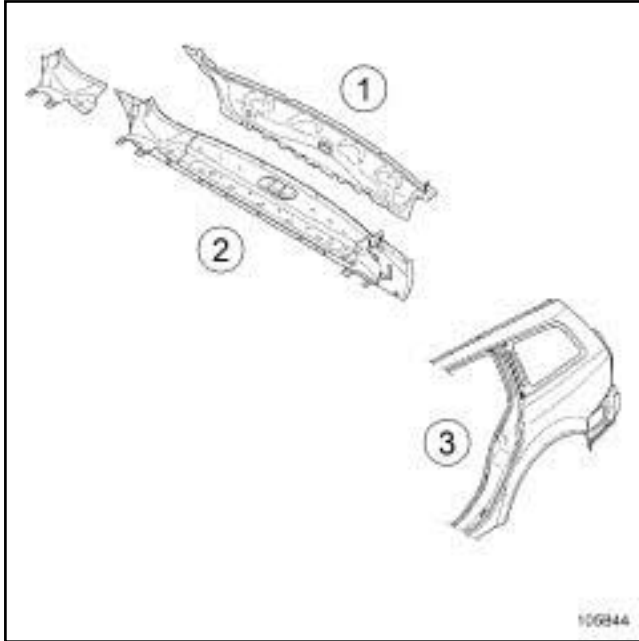
105197

- (1) Bumper support,
- (2) Rear end panel,
- (3) Rear end panel assembly,
- (4) Rear wing panel.

Vehicle damaged at rear: Description

K84

1st degree

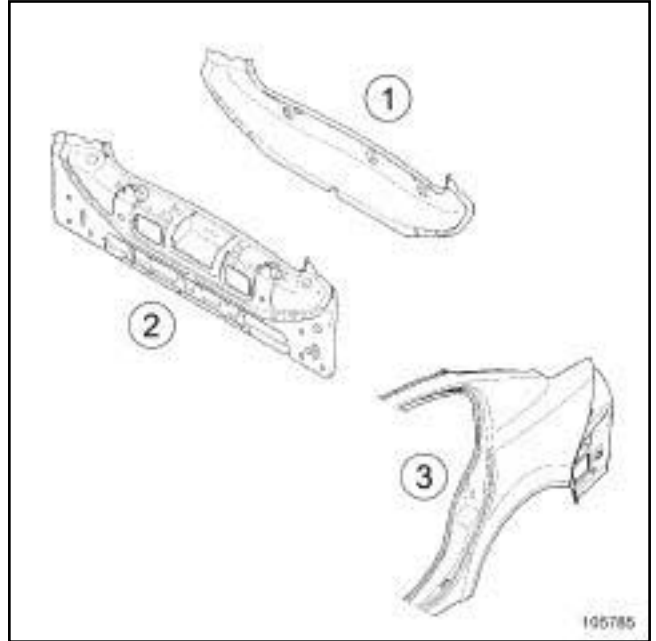


105844

- (1) Rear end panel,
- (2) Rear end panel assembly,
- (3) Rear wing panel.

L84

1st degree

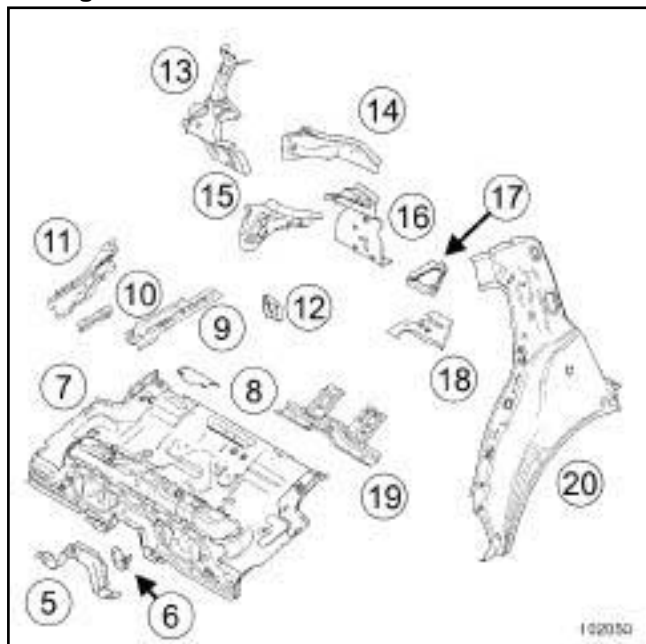


105785

- (1) Rear end panel,
- (2) Rear end panel assembly,
- (3) Rear wing panel.

Vehicle damaged at rear: Description

B84 or C84 or G84 or S84

2nd degree

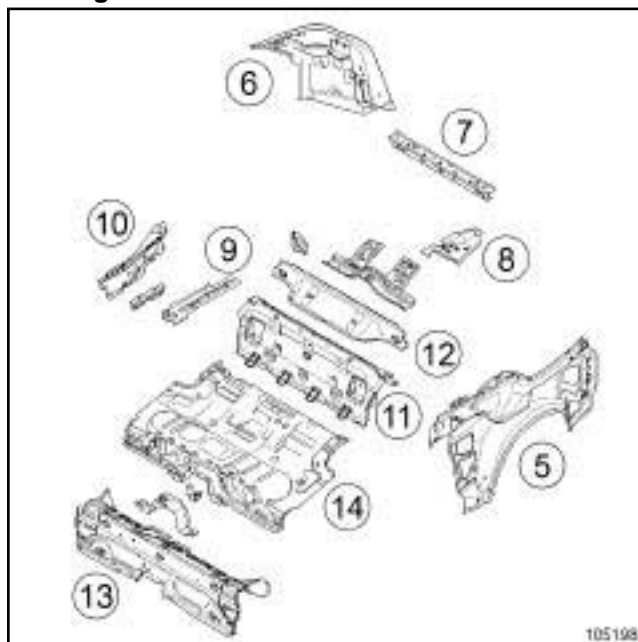
102050

- (5) Exhaust mounting support,
- (6) Tank mounting support,
- (7) Rear floor front section,
- (8) Fuel sender closure panel,
- (9) Rear side member closure panel,
- (10) Sill panel reinforcement stiffener,
- (11) Sill panel rear reinforcement,
- (12) Impact cross member mounting reinforcement,
- (13) Rear wing panel rain channel,
- (14) Rear light mounting,
- (15) Light mounting lining,
- (16) Rear end panel side lining,
- (17) Part no longer sold either separately or as part of an assembly,
- (18) Far rear lower cross member, side section,
- (19) Rear floor front cross member, centre section,
- (20) Rear quarter lining.

Note:

The parts marked with an asterisk are different on **3-door versions** but do not change the part combinations for impacts.

E84

2nd degree

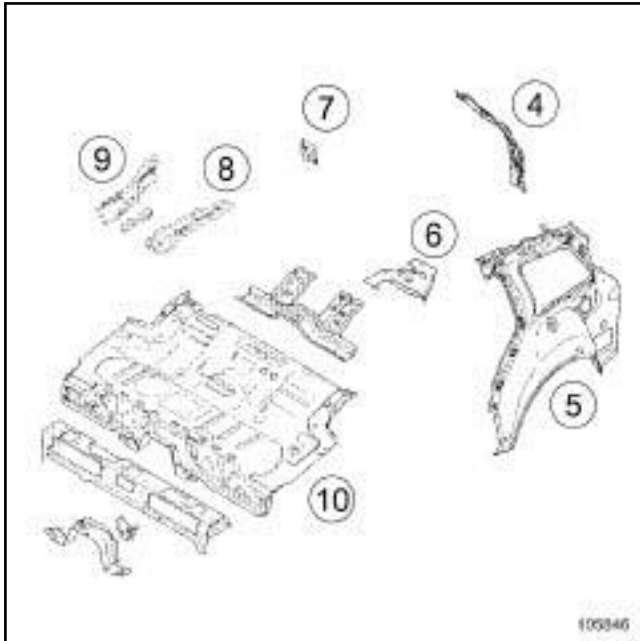
105198

- (5) Body side rear lining,
- (6) Rear light mounting,
- (7) Far rear lower cross member,
- (8) Far rear lower cross member, side section,
- (9) Rear side member closure panel, rear section,
- (10) Sill panel reinforcement, rear section,
- (11) Luggage compartment bottom, lower section cross member,
- (12) Luggage compartment bottom, front upper section cross member,
- (13) Rear floor front cross member,
- (14) Rear floor front section.

Vehicle damaged at rear: Description

K84

2nd degree

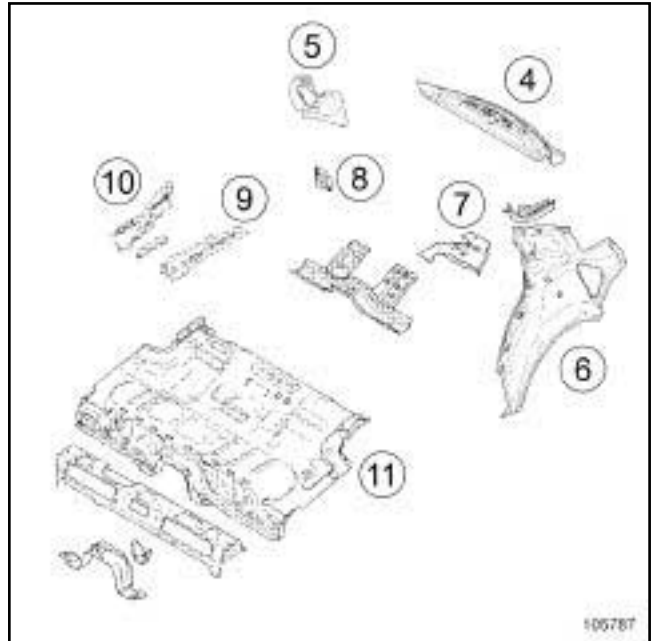


105846

- (4) Rear screen lower cross member,
- (5) Outer rear wheel arch,
- (6) Far rear lower cross member side closure panel,
- (7) Rear impact cross member mounting reinforcement,
- (8) Rear side member closure panel, rear section,
- (9) Sill panel reinforcement, rear section,
- (10) Rear floor, front section with supports.

L84

2nd degree

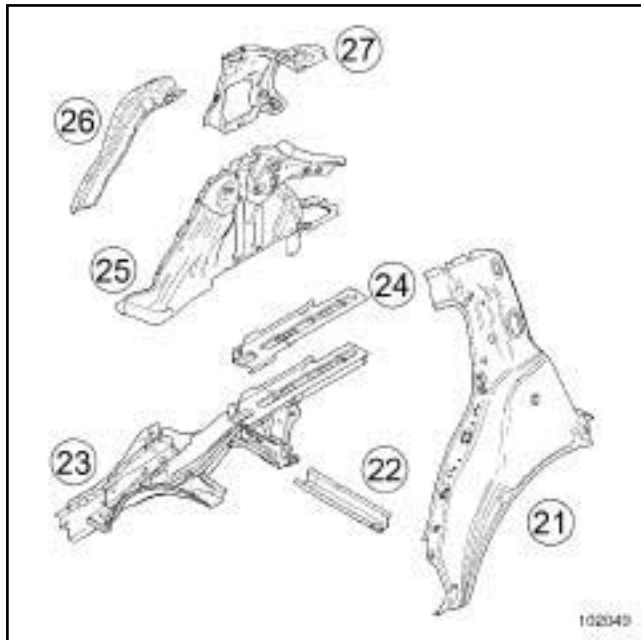


105787

- (4) Rear screen lower cross member,
- (5) Rear light mounting,
- (6) Outer rear wheel arch,
- (7) Far rear lower cross member side closure panel,
- (8) Rear impact cross member mounting reinforcement,
- (9) Rear side member closure panel, rear section,
- (10) Sill panel reinforcement, rear section,
- (11) Rear floor, front section with supports.

Vehicle damaged at rear: Description

B84 or C84 or G84 or S84

3rddegree

102049

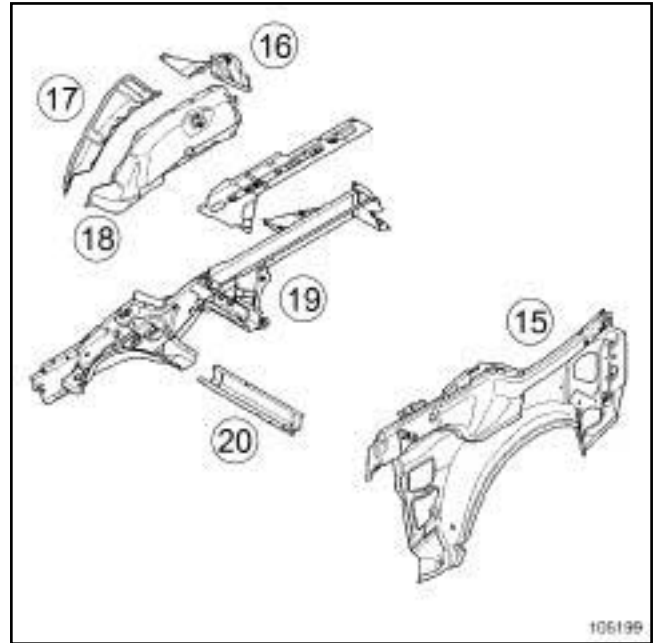
- (21) Quarter panel lining*,
- (22) Rear floor centre cross member,
- (23) Rear side member,
- (24) Rear side member closure panel,
- (25) Inner rear wheel arch,
- (26) Rear wheel arch closure panel*,
- (27) Quarter panel reinforcement.

Note:

The parts marked with an asterisk are different on **3-door versions** but do not change the part combinations for impacts.

E84

3rd degree

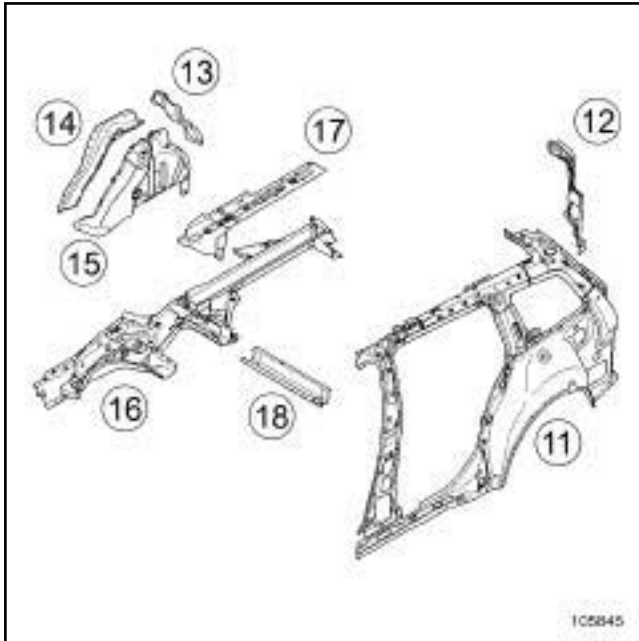


105199

- (15) Body side rear lining,
- (16) Rear wheel arch closure panel, rear section,
- (17) Rear wheel arch closure panel, front section,
- (18) Inner rear wheel arch,
- (19) Rear side member,
- (20) Centre cross member.

K84

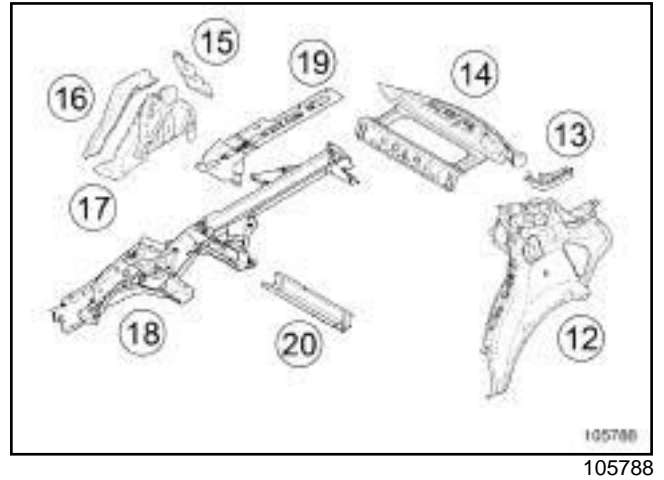
3rd degree



- (11) Quarter panel lining,
- (12) Rear wing panel rain channel,
- (13) Rear wheel arch closure panel, rear section,
- (14) Rear wheel arch closure panel, front section,
- (15) Inner rear wheel arch,
- (16) Rear side member,
- (17) Rear side member closure panel,
- (18) Centre cross member.

L84

3rd degree



- (12) Quarter panel lining,
- (13) Rear wing panel rain channel,
- (14) Rear parcel shelf,
- (15) Rear wheel arch closure panel, rear section,
- (16) Rear wheel arch closure panel, front section,
- (17) Inner rear wheel arch,
- (18) Rear side member,
- (19) Rear side member closure panel,
- (20) Centre cross member.

Consumables for mechanical repair:

DEFINITION	PACKAGING	PART NUMBER
MECHANICAL SEALANTS		
SILICOR sealing paste	85 g tube	77 11 236 470
MASTIXO Joint face seal	100 g tube	77 11 236 172
BEARING SEALING KIT For crankshaft bearing cap side sealing	Kit	77 11 237 896
SILICONE ADHESIVE SEAL Engine and gearbox sealing paste	100 g cartridge	77 11 227 484
TRANSPARENT SEALING MASTIC	45 g tube	77 11 223 369
SILICOJOINT	90 g tube	77 11 236 469
LOCTITE ADHESIVE 597 Sealing paste forPXXgearboxes	Cartridge	77 11 219 705
RESIN ADHESIVE or SEALING RESIN Sealing resin for engine and gear-box covers	25 ml tube	77 11 237 640
EXHAUST MASTIC For exhaust pipe union seals	1.5 kg tin	77 01 421 161
LEAK DETECTOR	400 ml aerosol	77 11 236 176
ADHESIVES		
FRENETANCHE Sealing the threading at low and medium pressure	50 ml bottle	77 11 236 471
HIGH-STRENGTH THREADLOCK For locking bolts	50 ml bottle	77 11 230 112
SEALING RESIN For locking the bearings	50 ml bottle	77 11 236 472
LUBRICANT CLEANERS		
NÉTELEC Avoid bad contacts in electrical circuits	150 ml aerosol	77 11 225 871

CONSUMABLES - PRODUCTS

Vehicle: Parts and ingredients for the repairwork

04B

INJECTOR CLEANER	355 ml container	77 11 224 188 or 77 11 225 539
CLOTH FOR INJECTION SYSTEM		77 11 211 707
SUPER RELEASING AGENT	500 ml aerosol	77 11 236 166
SUPER RELEASING AGENT	250 ml aerosol	77 11 420 439
SUPER CLEANER FOR JOINT FACES For cleaning joint faces	300 ml aerosol	77 11 238 181
SURFACE CLEANER	5 L container	77 01 404 178
SILICONE LUBRICANT	400 ml aerosol	77 11 236 168
SILICONE-FREE LUBRICANT	400 ml aerosol	77 11 236 167
BRAKE CLEANER	600 ml aerosol	77 11 422 413
	150 ml aerosol	77 11 422 414
AIR CONDITIONING CLEANER	250 ml aerosol	77 11 230 498
CARBURETTOR CLEANER	Aerosol	77 11 236 177
GREASE		
BR2+ GREASE For: - the lower arm bearings, - the anti-roll bar grooves, - the driveshaft splines.	1 kg pack	77 01 421 145
SILICONE GREASE For: - the tubular rear axle bushes, - the anti-roll bar bushes.	100 g tube	77 11 419 216
COPPER ANTI-SEIZE GREASE Grease for turbochargers (high temperature)	85 g tube	77 11 236 173
COPPER-ALUMINIUM LUBRICANT Grease for turbochargers (high temperature)	500 ml aerosol	77 11 236 169
GREASE For driveshaft seals	180 g sachets	77 11 420 011
WHITE GREASE For wheel sensors	400 ml aerosol	77 11 236 174

MULTIPURPOSE GREASE	500 ml aerosol	77 11 236 170
	250 ml aerosol	77 11 236 171
FLUORSTAR 2L Silicone-free electric sealing grease	100 g tube	82 00 168 855
LACQUER		
JELT ARGENT Vamish for repairing heated rear screens	5 g bottle	77 11 230 111
BRAKE		
DOT 4, ISO CLASS 6, RENAULT STANDARD: 03-50-006, For vehicles with and without electronic stability program (ESP)	0.5 L container	77 11 218 589
	5 L container	77 11 238 318
	25 L container	77 11 238 319
DOT 4, ISO CLASS 4, RENAULT STANDARD: 03-50-005 Authorised for vehicles without ESP	0.5 L container	77 11 172 381
	5 L container	77 01 395 503
	25 L container	77 11 171 926
DOT 4 Authorised for vehicles without ESP, without clutch with hydraulic tappet	0.5 L container	86 71 000 000
	5 L container	86 71 014 277
	25 L container	86 71 014 278
COOLING SYSTEM		
ANTIFREEZE (TYPE D)	1 L container	77 11 170 548
COOLANT (TYPE D)	1 L container	77 11 171 589
	2 L container	77 11 170 545
	5 L container	77 11 170 546
OIL		
ENGINE OIL	(see Engine oil: Specifications) (Technical Note 6013A, 04A, Lubricants)	
GEARBOX OIL	(see Manual gearbox oil: Specifications) (Technical Note 6012A, 04A, Lubricants)	
	(see Automatic gearbox oil: Specifications) (Technical Note 6012A, 04A, Lubricants)	
	(see Sequential gearbox oil: Specifications) (Technical Note 6012A, 04A, Lubricants)	
AXLE OIL	(see Rear axle oil: Specifications) (Technical Note 6012A, 04A, Lubricants)	

CONSUMABLES - PRODUCTS

Vehicle: Parts and ingredients for the repairwork

04B

ELF RENAULT MATIC D2 Oil for power-assisted steering: Pump connected, pump assembly (except Laguna III)	2 L container	77 01 402 037
TOTAL POWER-ASSISTED STEERING FLUID Oil for power-assisted steering: Pump assembly (Laguna III)	1 L container	
PLANETELF PAG 488	250 ml container	77 11 172 668
SANDEN SP 10 Oil for air conditioning compressor		77 01 419 313
TYRES		
TYRE PASTE	1 kg pack	77 11 223 052
	5 kg pack	77 11 223 053
TYRE REPAIR AGENT	400 ml tube	77 11 221 296
	300 ml tube	77 11 222 802
BLANKING PLUG		
Engine type	Injection type	Part no.
F5R		77 01 206 382
F8Q		77 01 206 340
F9Q		77 01 208 229
G9T AND G9U		77 01 208 229
K9K	DELPHI	77 01 206 804
K9K	SIEMENS	77 01 476 857
M9R		77 01 209 062
P9X		77 01 474 730
ZD3		77 01 208 229
MISCELLANEOUS		
GREY ABRASIVE PAD		77 01 405 943

Consumables for bodywork repair:

HOLLOW SECTION WAX		
SPR CC	1 L container	77 11 172 672
SPR CC SPRAY	500 ml aerosol	77 11 211 654

CONSUMABLES - PRODUCTS

Vehicle: Parts and ingredients for the repairwork

04B

STRUCTURAL ADHESIVE		
STRUCTURAL ADHESIVE	Kit =2 80 ml cartridges	77 11 219 885
HIGH PERFORMANCE STRUCTURAL ADHESIVE	1 195 ml cartridge	77 11 419 113
GLAZING PRODUCTS AND ADHESIVES		
MONOPAC EVOLUTION ADHESIVE KIT	310 ml cartridge	77 11 421 430
MONOPAC EVOLUTION ADDITIONAL CARTRIDGE + NOZZLE	310 ml cartridge	77 11 421 431
S-P KIT ADHESIVE KIT	310 ml cartridge	77 11 421 432
ADDITIONAL S-P KIT CARTRIDGE + NOZZLE	310 ml cartridge	77 11 421 433
BIPAC EVOLUTION ADHESIVE KIT	2 225 ml cartridges	77 11 421 434
LINT-FREE CLOTH	Box of 340 cloths	77 11 237 262
METAL PRIMER	Bottle	77 11 419 599
WINDOW SEALING MASTIC	310 ml cartridge	77 11 170 222
SPECIAL ADHESIVE FOR WINDOWS		77 11 425 759
ADHESION PROMOTER For bonding double-sided adhesive tape to windows	Cloth	77 11 423 222
MISCELLANEOUS		
DOUBLE-SIDED ADHESIVE	20 m roll	77 11 226 308
FRENETANCHE	50 ml bottle	77 11 236 471
ADHESIVE PATCH		82 00 043 181
ADHESIVE PAD		77 05 042 163
SEALS		
BLACK MJ PRO (Electroweldable)	310 ml cartridge	77 11 172 676
WHITE MJ PRO (Electroweldable)	310 ml cartridge	77 11 172 677
PREFORMED SEALING MASTIC BEAD	2.6 m roll	77 01 423 330
BRUSH MASTIC	1 kg pack	77 11 228 113
FILLER MASTIC	60 beads Ø 6 mm by 0.3 m	77 11 170 230
GREASE		

CONSUMABLES - PRODUCTS

Vehicle: Parts and ingredients for the repairwork

04B

CLEAN GREASE	300 ml aerosol	77 11 236 174
OPENING ELEMENT MECHANISM GREASE	20 g sachets	77 11 419 865
SOUNDPROOFING		
SPR GREY EVOLUTION	1 l cartridge	77 11 419 114
SPR GREY EVOLUTION SPRAY	400 ml aerosol	77 11 419 116
SPR BLACK EVOLUTION II	1 l cartridge	77 11 419 115
SOUNDPROOFING PAD (3.5 Kg/m²)	Pack of 10	77 01 423 546
SOUNDPROOFING PAD (6.5 Kg/m²)	Pack of 5	77 01 423 269
POLISHING		
POLISHING LIQUID	1 L container	77 11 420 288
FINISHING LIQUID	1 L container	77 11 420 289
MASTIC		
Universal mastic		
GALAXI	2.5 kg pack	77 11 172 238
OPTIMAX	1.23 l cartridge	77 11 172 239
EXCELLENCE + For finishing plastic repair	960 g cartridge	77 11 423 539
	1 kg pack	77 11 423 540
Plugging mastic		
XFIBRE FIBREGLASS MASTIC	975 kg pack	77 11 172 235
STANDARD BASIX POLYESTER MASTIC	1.975 kg pack	77 11 172 234
ALUX ALUMINIUM MASTIC	975 kg pack	77 11 172 236
Sprayable mastic		
PIXTO SPRAYABLE POLYESTER MASTIC	1.5 kg tin	77 11 172 237
Finishing mastic		
IXTRA POLYESTER MASTIC	1.625 kg pack	77 11 172 233
Anti-grit mastic		
MAG PRO 1	310 ml cartridge	77 11 172 679
MAG PRO 3 (Dual component)	1.5 kg tin	77 11 218 364
SURFACE CLEANER		

CONSUMABLES - PRODUCTS

Vehicle: Parts and ingredients for the repairwork

04B

HEPTANE	500 ml container	77 11 170 064
SOLVENT SURFACE CLEANER	5 L container	77 01 404 178
WATER-BASED SURFACE CLEANER	5 L container	77 11 421 337
ANTISTATIC THINNER (for plastic materials)	400 ml aerosol	77 01 408 493
COMPOSITE MATERIAL REPAIR BY BONDING		
PLASTIC REPAIR KIT		77 11 170 064
NOZZLE FOR PLASTIC REPAIR KIT		77 11 423 523
PLASTIC REPAIR CLEANER	1 L container	77 11 423 517
PLASTIC REPAIR PRIMER	150 ml bottle	77 11 423 518
PLASTIC REPAIR ADHESIVE	2 x 25 ml bicomponent cartridge	77 11 423 519
PLASTIC REPAIR CLOTH	90 m roller	77 11 423 520
PLASTIC REPAIR NOZZLES	12 nozzles	77 11 423 522
COMPOSITE MATERIAL REPAIR BY WELDING		
PLASTIC WELD REPAIR SET		77 11 425 742
PROTECTIVE STRIPS	Bag of 10 protective strips	77 11 425 744
STAINLESS STEEL MESH	Bag of 2 meshes	77 11 425 743
COOLER	400 ml aerosol	77 11 425 745
BRUSH	Box of 10 brushes	77 11 237 793
WINDOW MASKING TAPE		
10 MM WINDSCREEN TAPE		77 11 171 708
20 MM WINDSCREEN TAPE		77 11 171 709
PROTECTIVE WELDING		
ANTI-SPLASH SPRAY	400 ml aerosol	77 11 218 270
SPECIFIED UNDERCOAT		
PRE-TREATMENT PRIMER WITHOUT ZINC CHROMATE (I-Alpha) + THINNER	1 L container	77 11 420 027 (Primer)
		77 11 420 028 (Thinner)
I-PREMIA REACTIVE PRIMER (do not use on aluminium)	3.5 l container	77 11 239 243 (Primer)
		77 11 228 654 (Thinner)
I-PREMIA REACTIVE PRIMER (do not use on aluminium)	400 ml aerosol	77 11 419 416

CONSUMABLES - PRODUCTS

Vehicle: Parts and ingredients for the repairwork

04B

ADHÉRA SPRAY (adhesion promoter for thermoplastics)	400 ml aerosol	77 11 423 734
PRIMARA BLACK (adhesion promoter/primer for thermoplastics)	1 L container	77 11 423 735
		77 11 171 514 (Activator)
PRIMARA (adhesion promoter/primer for thermoplastics)	1 L container	77 11 171 513
		77 11 171 514 (Activator)
UNDERCOAT		
LEVIA	3.5 l container	77 11 228 651
FORTIA	3.5 l container	77 11 228 650

The products and equipment required for carrying out this work are available from the **Parts Department**.

I - PRODUCTS AND EQUIPMENT FOR TREATING HOLLOW SECTIONS

« PAC1, PAC2 » kit



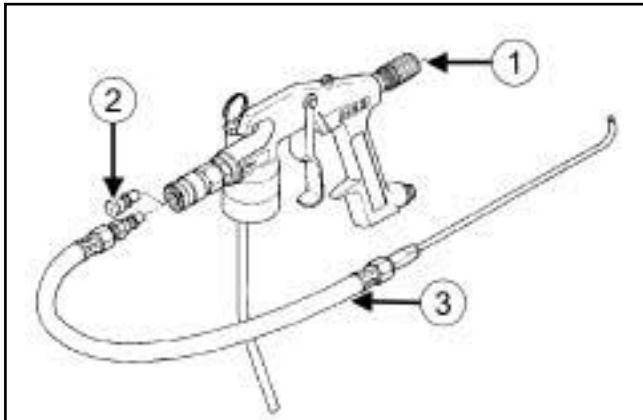
272-2

The hollow body parts of the structure of the vehicle are protected in the factory by injecting hot wax. To guarantee equivalent protection after repair, inject one after the other the two complementary products which make up a « PAC1, PAC2 » kit.

After injection, all the orifices must be covered using blanking covers moulded to fit each one.

The necessary information concerning blanking covers can be found in the **Parts Catalogue** for the vehicle.

Injector assembly



272-1

(1)	Wax flow control
(2)	Quick-release union end piece
(3)	Interchangeable injection hose

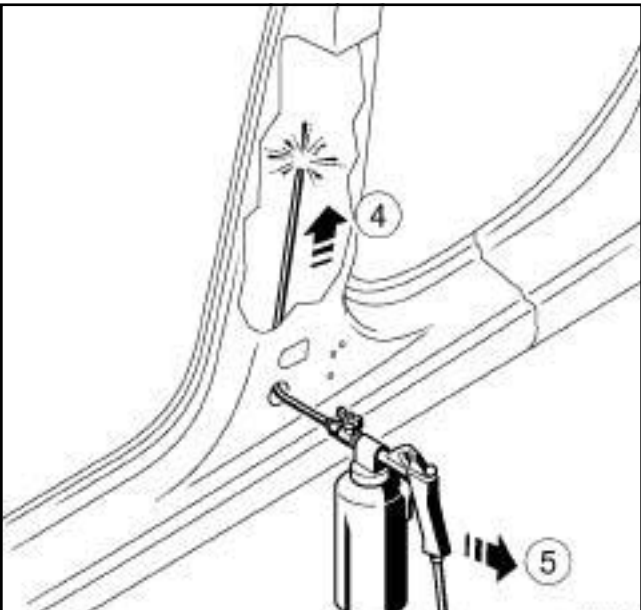
Protective wax



272

The subframe under the floor is protected with a special wax.

II - OPERATING PROCEDURE FOR TREATING HOLLOW SECTIONS



109692

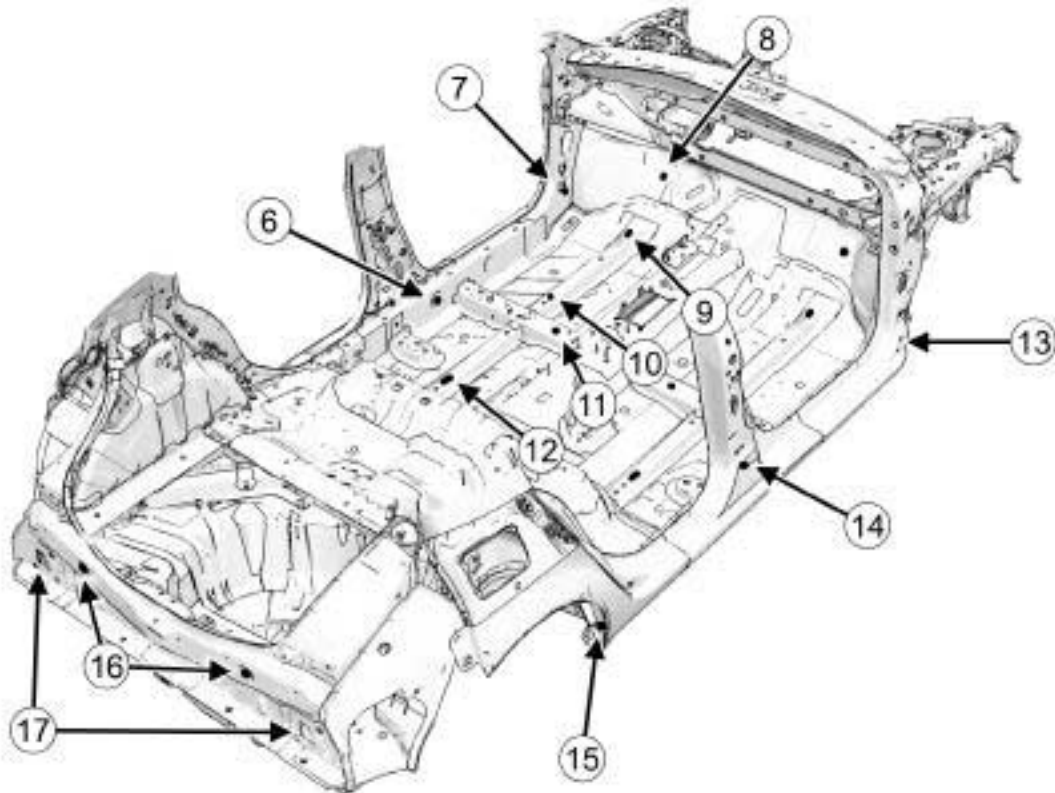
Anti-corrosion protection product Description

Insert the nozzle tip until it reaches the end of the hollow section (4) .

Inject the wax whilst retracting the nozzle tip (5) .

III - ACCESS POINTS FOR APPLYING ANTI-CORROSION TREATMENT

POINTS LOCATED INSIDE THE VEHICLE



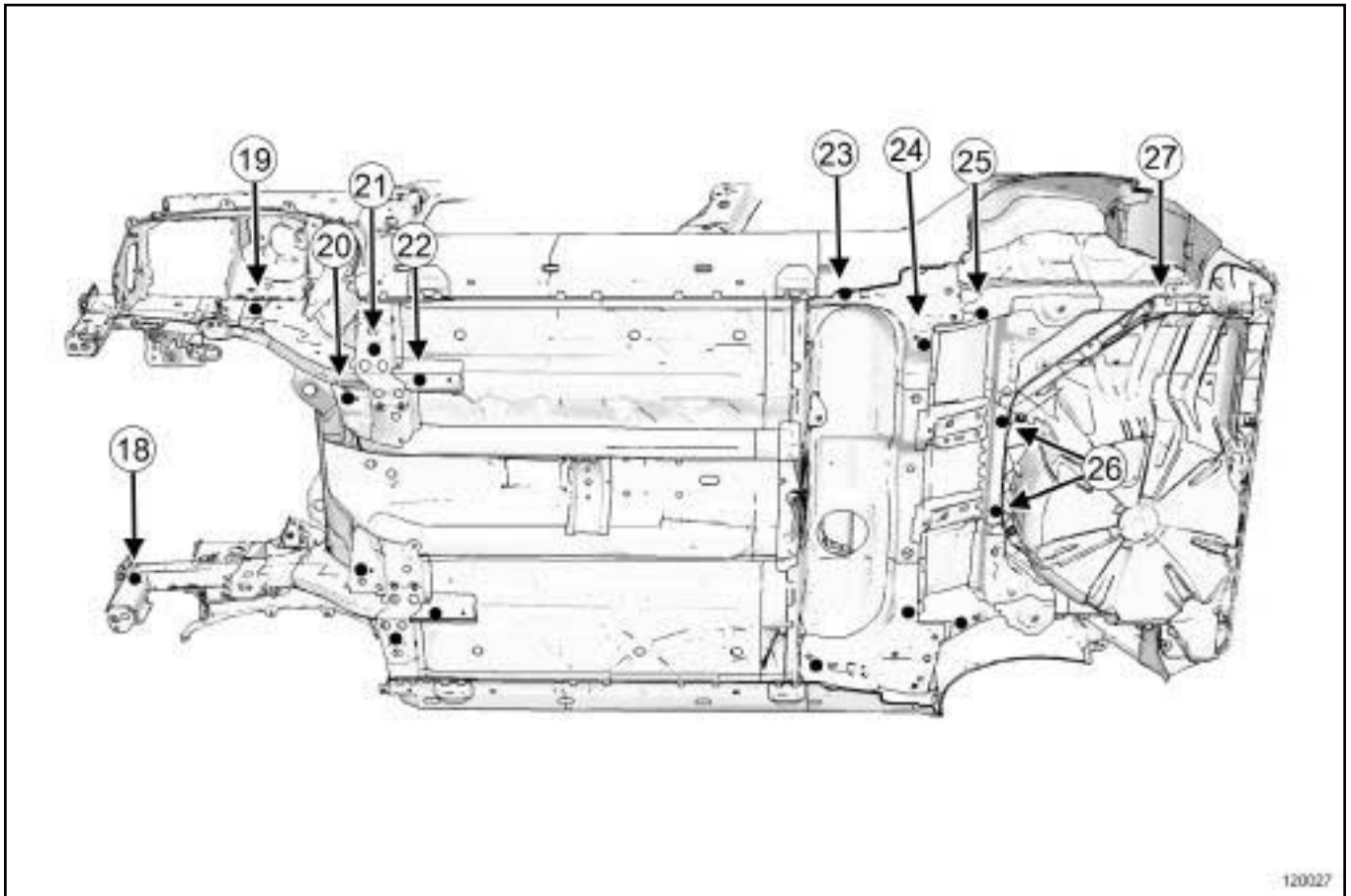
120026

120026

Note:

Hollow body parts to be treated from inside the vehicle must be treated after painting and before retrimming.

points beneath the vehicle



120027

Note:

Blanking pieces are fitted to the injection points located beneath the vehicle. When any work is carried out on the vehicle, plug all the points used for injection. Replace any damaged or deformed blanking pieces with new ones.

1 - Frontal impact

Replacing or repairing the front side member, the front side member closure panel and the front subframe mounting unit:

- injection of wax into points (8), (19) and (18).

Replacing the front side cross member or the front half unit:

- injection of wax into points (20), (22) and (21).

2 - Side impact

replacement or repair of the sill panel:

- protection of the join between the inner sill panel and the sill panel reinforcement:

injection of wax into points (6) and (7),

- protection of the join between the sill panel and the sill panel closure:

injection of wax into points (13), (15) and (14).

Replacement of the centre floor:

- protection of the join between the floor and the side member reinforcement:

injection of wax into points (9), (12) and (10),

- protection of the join between the floor and the front seat mounting cross member:

injection of wax into point (11).

3 - Rear impact

Replacing the complete rear side member:

- injection of wax into points (17), (27) and (25).

Replacement of the rear end panel:

- injection of wax into points (16).

Replacing the rear floor centre cross member:

- injection of wax into points (26).

Replacing the front section of the rear floor:

- injection of wax into points (23) and (24).