

RENAULT

0 General vehicle information

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X95

APRIL 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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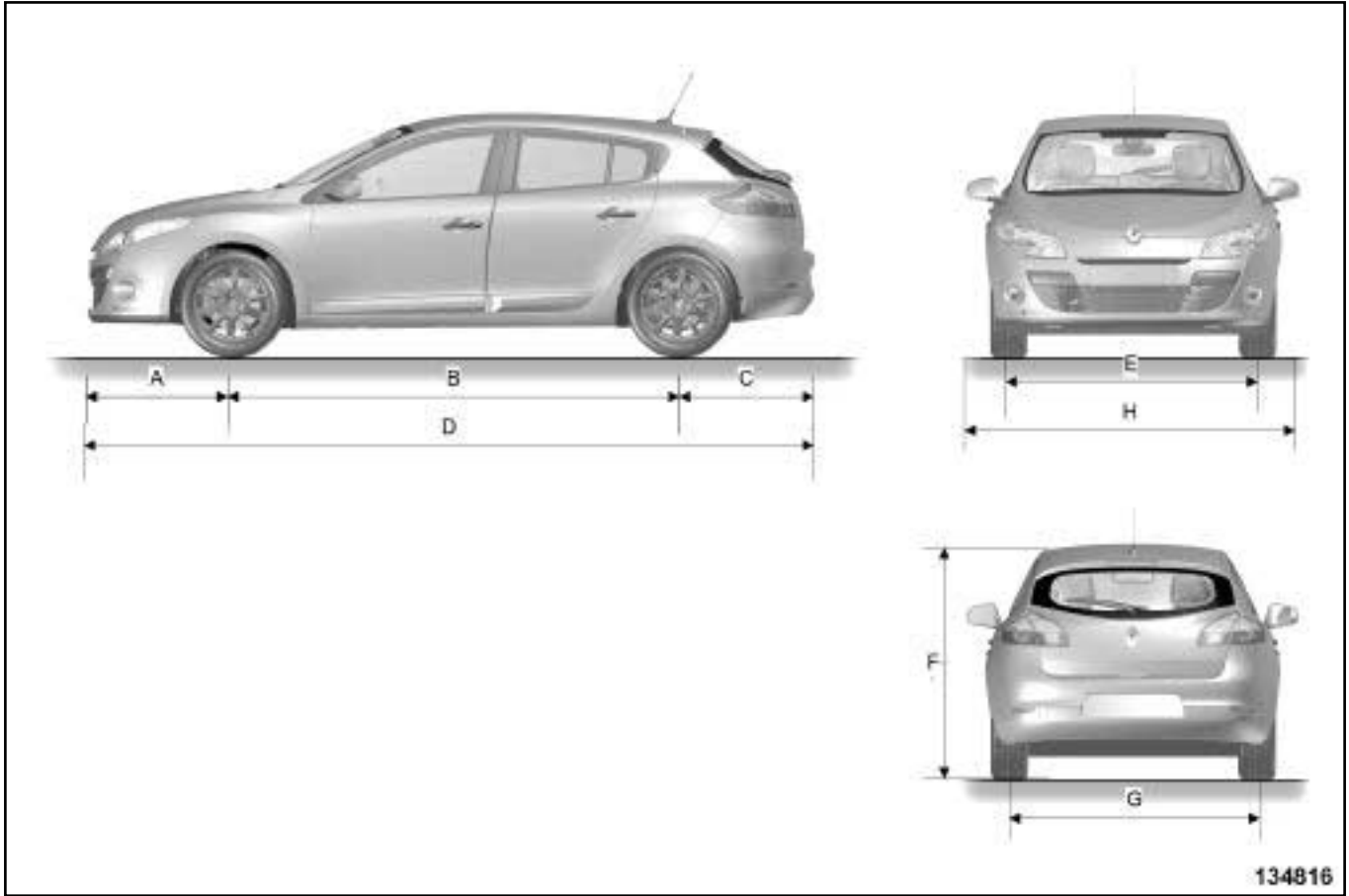
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B95

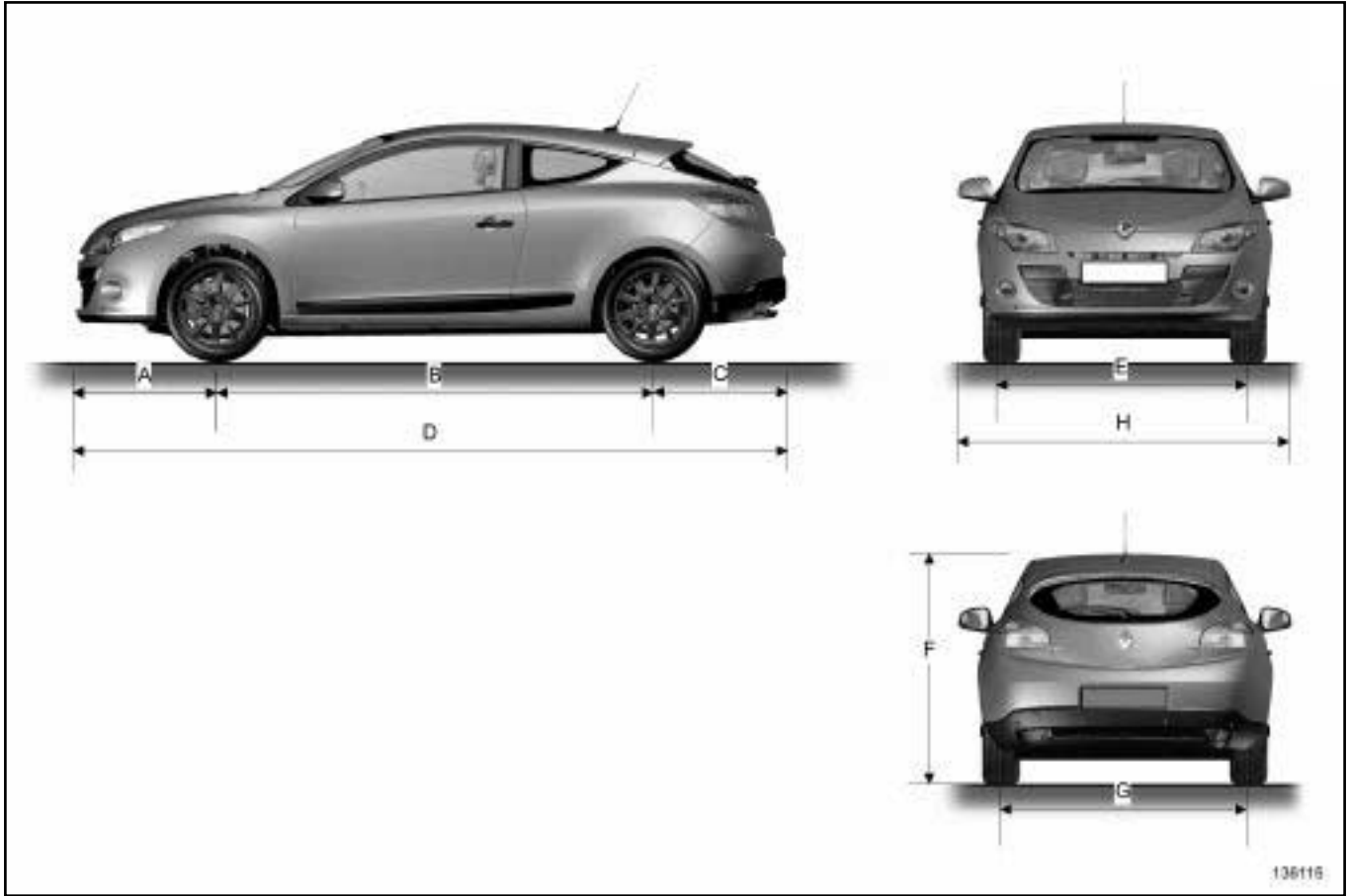


134816

Dimensions in metres:

(A)	0.862
(B)	2.641
(C)	0.792
(D)	4.295
(E)	1.546
(F) (unladen)	1.471
(G)	1.547
(H)	1.808

D95

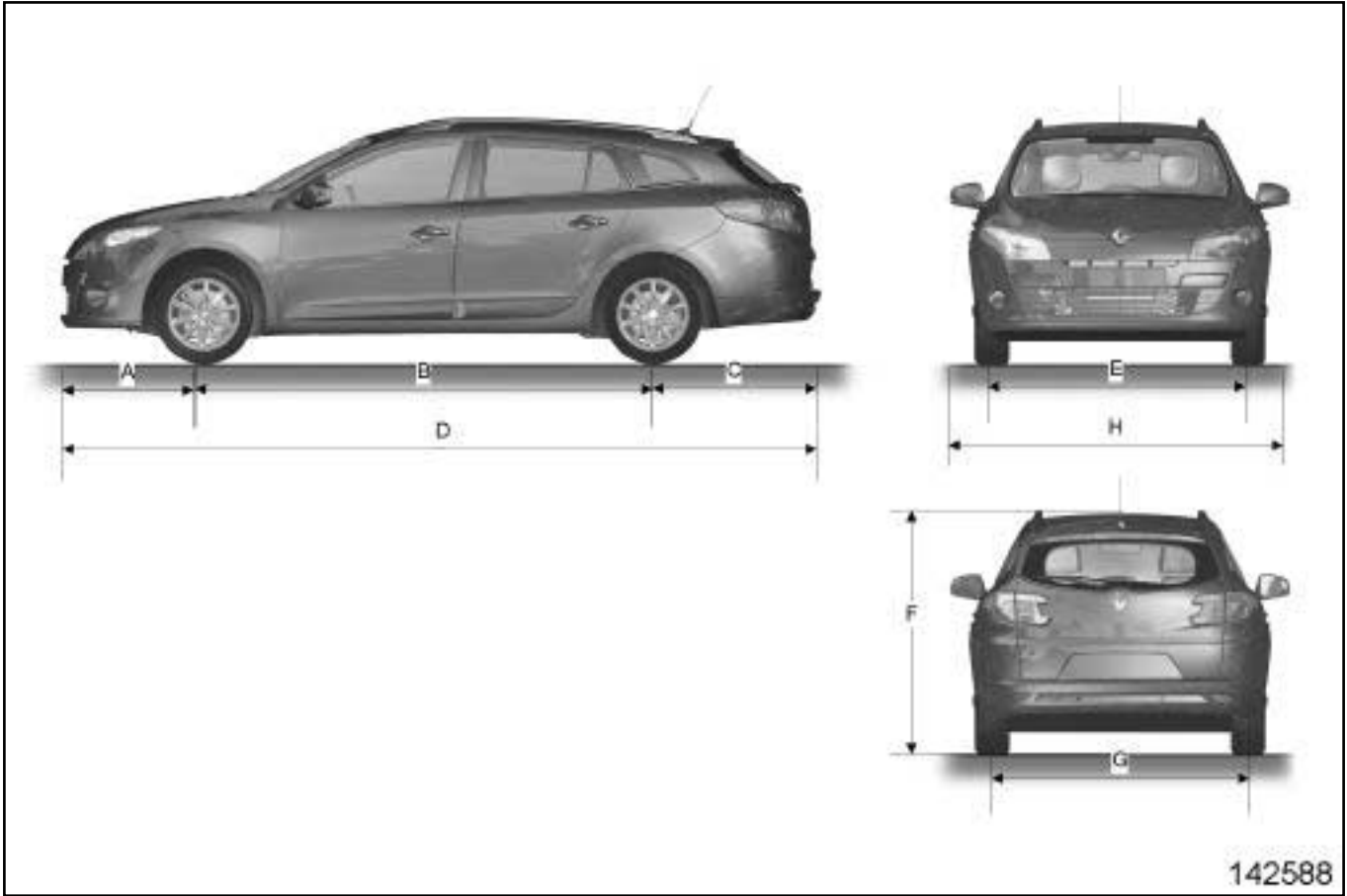


136115

Dimensions in metres:

(A)	0.862
(B)	2.640
(C)	0.797
(D)	4.299
(E)	1.546
(F) (unladen)	1.423
(G)	1.547
(H)	1.785

K95



142588

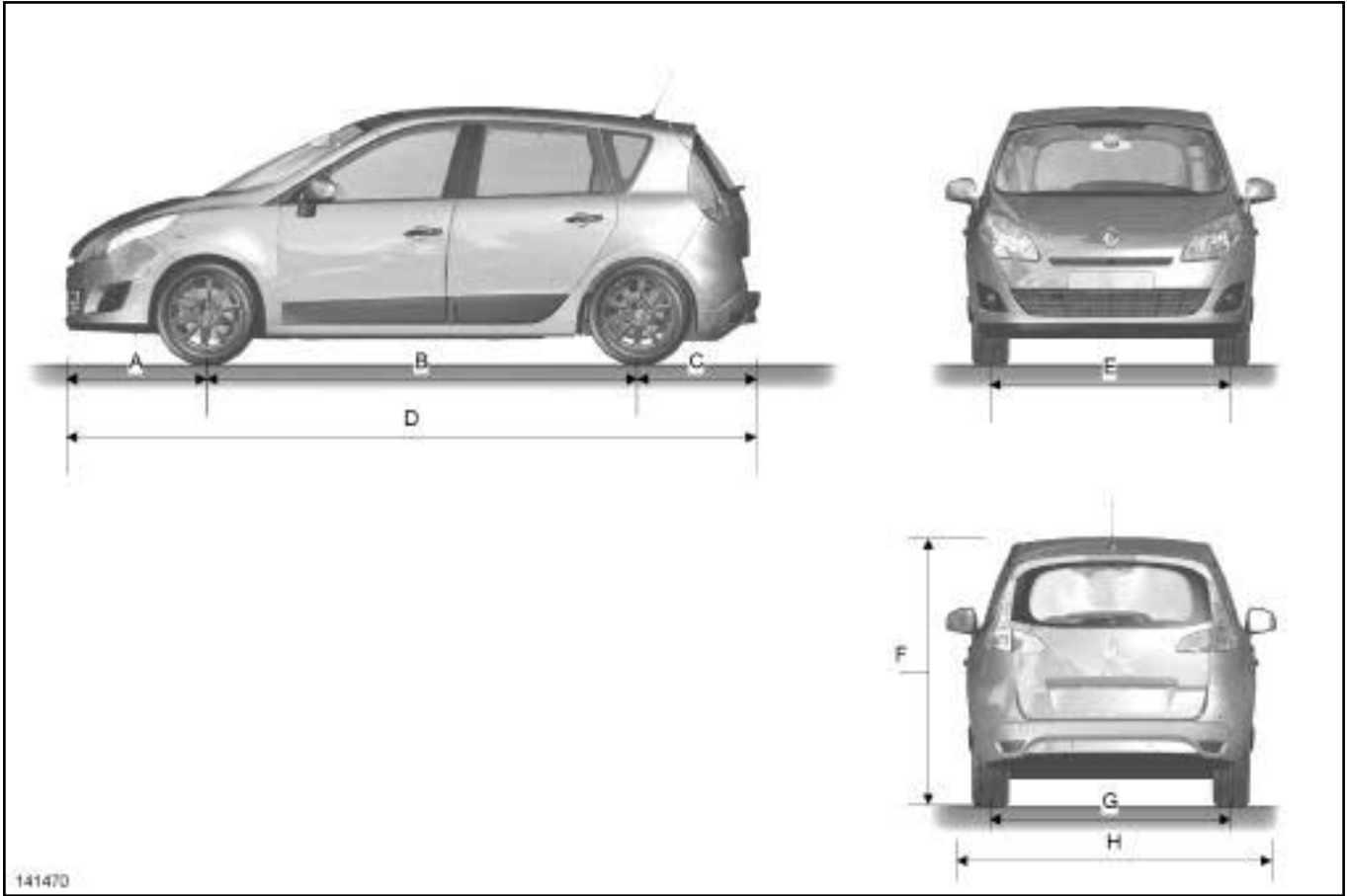
Dimensions in metres:

(A)	0.862
(B)	2.702
(C)	0.994
(D)	4.558
(E)	1.546
(F) (unladen)	1.461
(G)	1.547
(H)	1.766

B95 or D95 or K95

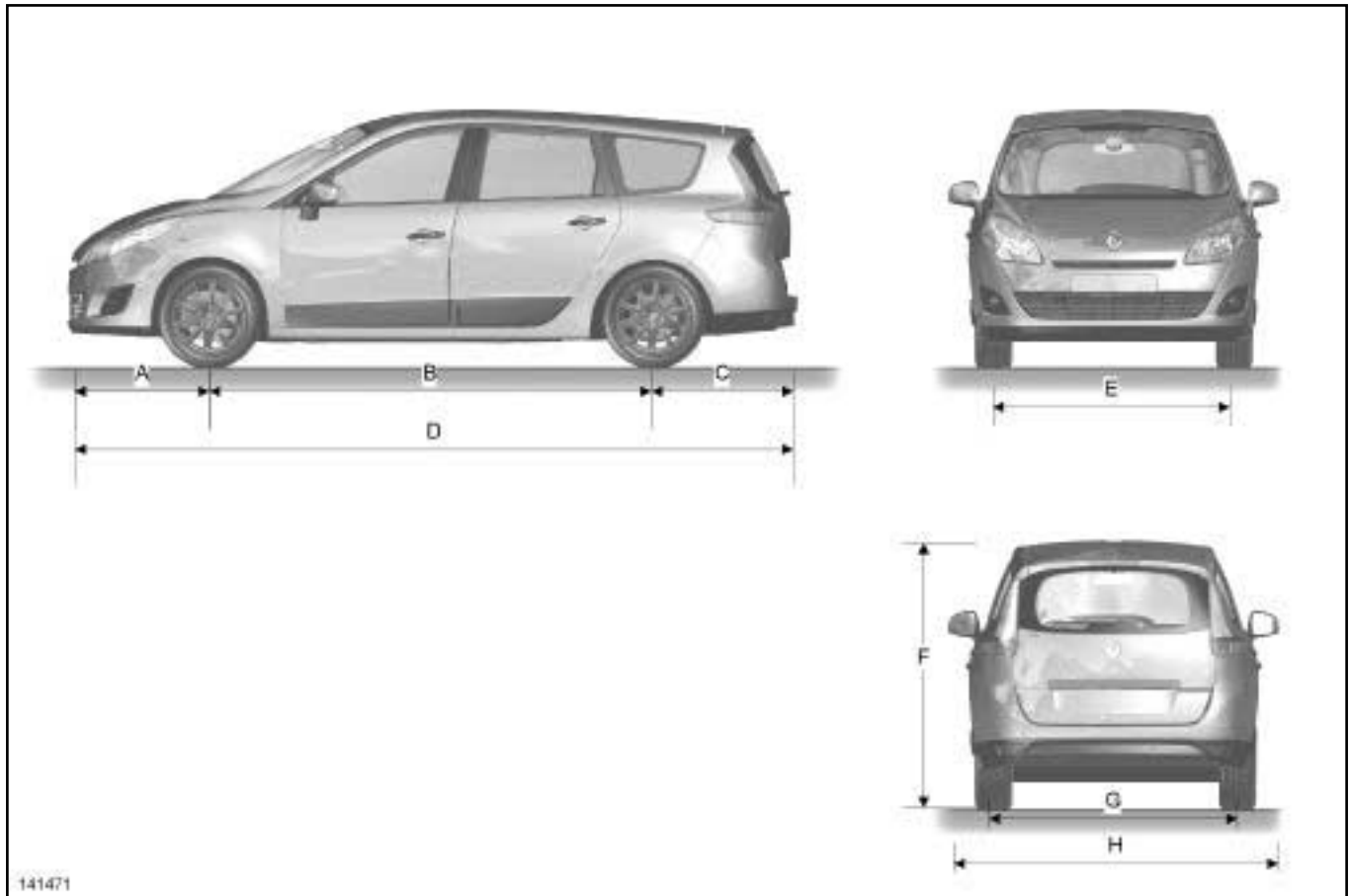
Engine			Gearbox		Emissions standard
Engine type	Engine suffix	Cubic capacity (cm³)	Gearbox type	Gearbox suffix	
H4J	700	1397	TL4	032	EURO 5
				033	
K4M	846	1598	JH3	183	EURO 4
	848				EURO 5
	858		TL4	028	EURO 5
	866			029 030	EURO 4
M4R	711	1997	FK0	001	EURO 5
	710		TL4		
F4R	870	1998	PK4	017	EURO 5
	874			018	EURO 5
				019	EURO 5
K9K	830	1461	JR5	175	EURO 4
	832		TL4	026	
				018 022 027	
	834		JR5	175	EURO 5
	836		TL4	018 022 027	
F9Q	870	1870	ND4	001	EURO 5
	872			002 004	EURO 4
M9R	615	1995	AJ0	008	EURO 5
	610		PK4	014	
				015	

J95, and STANDARD CHASSIS



(A)	0.888
(B)	2.702
(C)	0.753
(D)	4.343
(E)	1.546
(F) (unladen)	1.650
(G)	1.547
(H)	2.077

J95, and LONG CHASSIS



(A)	0.888
(B)	2.769
(C)	0.903
(D)	4.560
(E)	1.536
(F) (unladen)	1.660
(G)	1.539
(H)	2.077

J95

Engine				Gearbox		Emissions stan- dard
Engine type	Engine suffix	Cubic city(cc)	capa- city	Gearbox type	Gearbox suffix	

K4M	858	1598	TL4	028	EURO 5
	866			030	EURO 4
H4J	700	1397	TL4	036	EURO 5
				037	
M4R	711	1997	FK0	001	EURO 5
K9K	830	1461	JR5	175	EURO 4
	832		TL4	026	
				018	
				022	
				027	
	836			018	EURO 5
				022	
				027	
F9Q	870	1870		ND4	002
	872		004		
M9R	610	1995	PK4	014	EURO 5
	615		AJ0	015	



I - LOCATION OF VEHICLE IDENTIFICATION
PLATE (A)

B95



137699

J95



141763

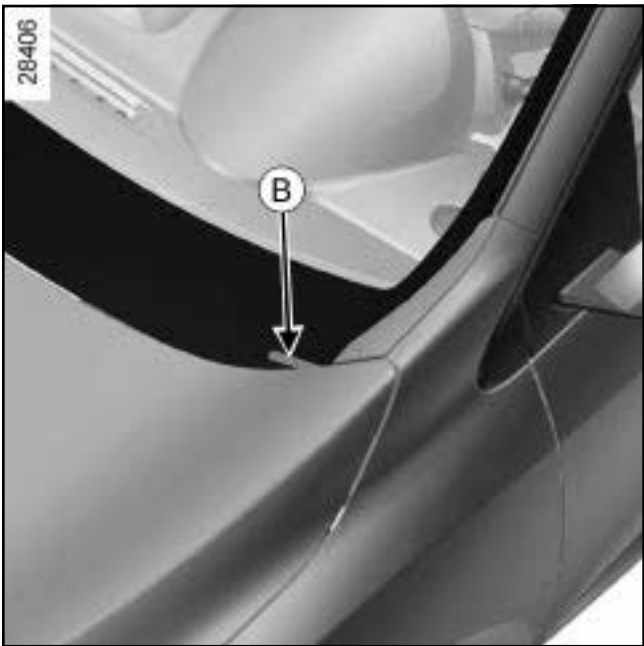
II - LOCATION OF THE VEHICLE IDENTIFICATION
NUMBER (B)

D95



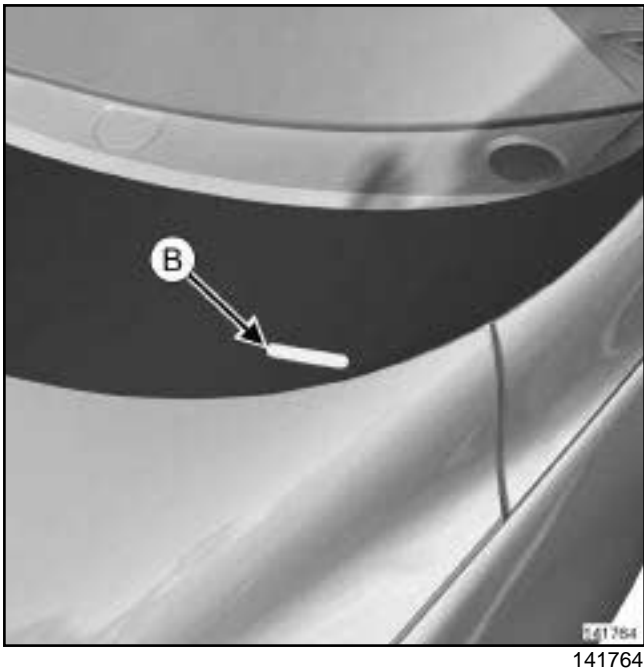
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B95 or D95



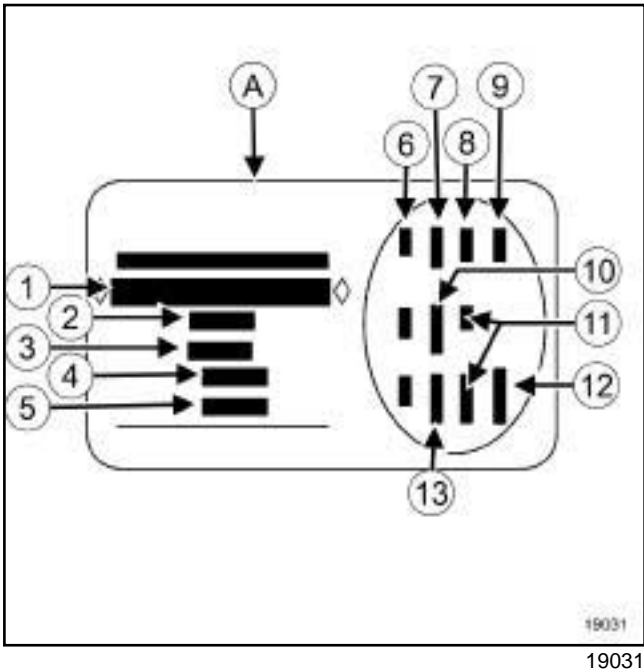
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J95



III - DETAILED VIEW OF THE VEHICLE IDENTIFICATION PLATE

plate (A)

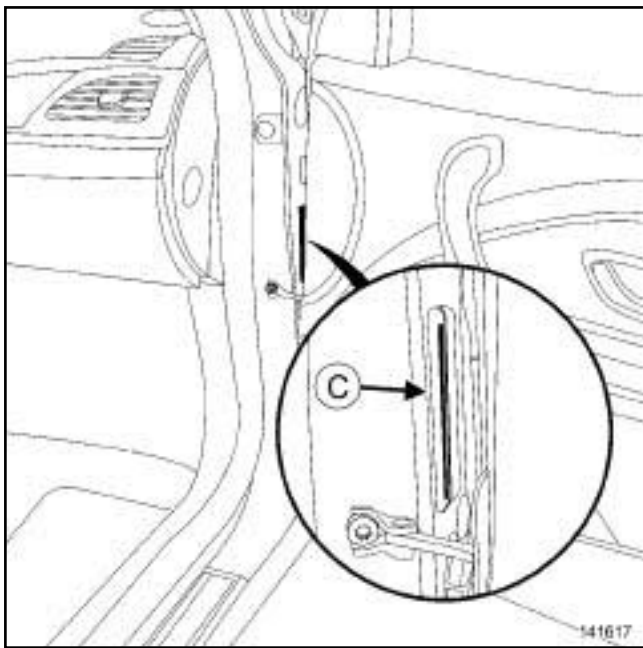


(1)	vehicle type and type number; this information also appears on marking (B)
(2)	MGVW (Maximum Gross Vehicle Weight)
(3)	GTW (Gross train weight, vehicle under load with trailer)
(4)	Maximum permissible front axle load
(5)	Maximum permissible rear axle load
(6)	Vehicle technical specifications
(7)	Paintwork reference number
(8)	Equipment level
(9)	Vehicle type
(10)	Upholstery code
(11)	Additional equipment details
(12)	Fabrication number
(13)	Interior trim code

IV - COLD-MARKING OF THE BODY (C)

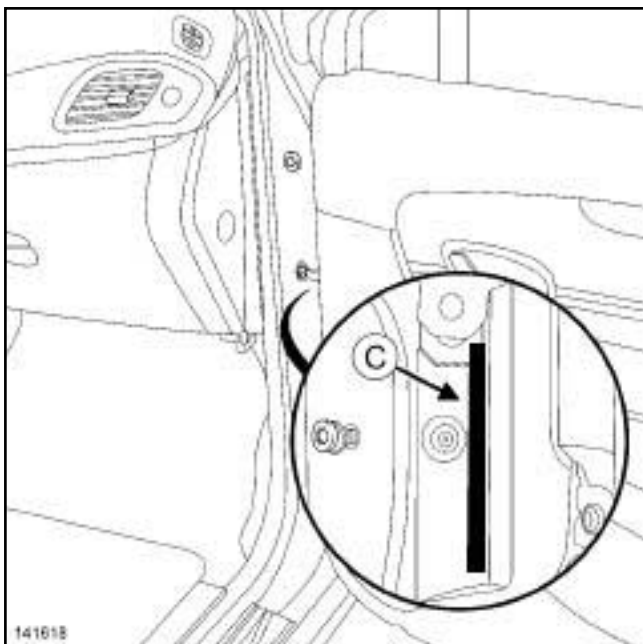
Note:
If the complete body is being replaced, it must be marked in compliance with the current regulations.

B95 or D95



141617

J95

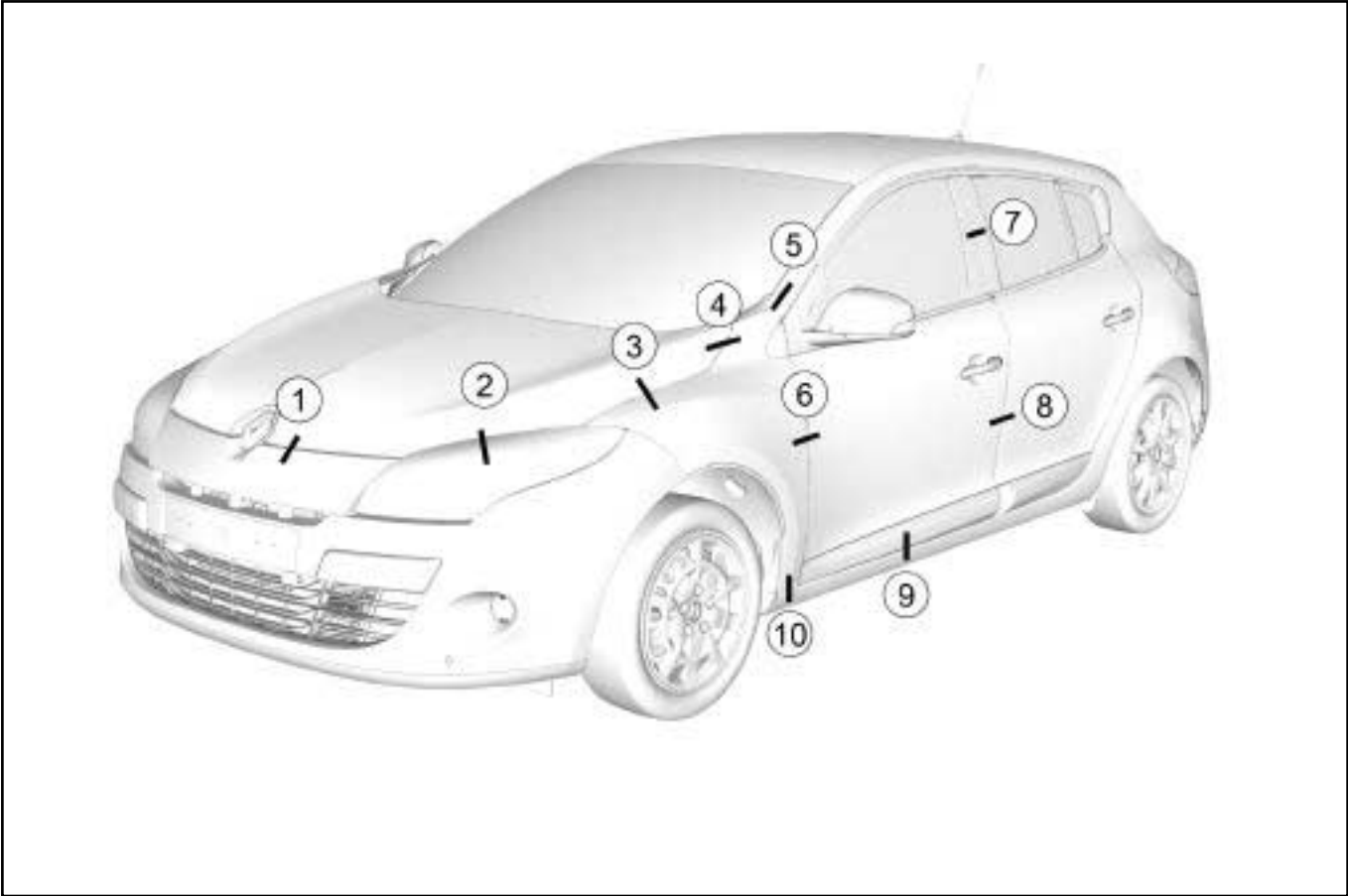


141618

VEHICLE BODYWORK SPECIFICATIONS
Vehicle clearances: Adjustment values

01C

B95 or D95 or K95



137528

No.	Location	Clearances (mm)
(1)	bonnet / front bumper	3.5 ± 1.5
(2)	bonnet / headlight	2 ± 1.7
(3)	bonnet / front wing	3.5 ± 1.1
(4)	bonnet / front wing	3.5 ± 1.1
(5)	front wing / A-pillar	4
(6)	front wing / front side door	4 ± 0.8
(7)	front side door / rear side door	4.5 ± 1.5
(8)	front side door / rear side door	4.2 ± 1.2
(9)	front side door / sill panel	4.5 ± 1.5
(10)	front wing / sill panel	2.5 ± 1

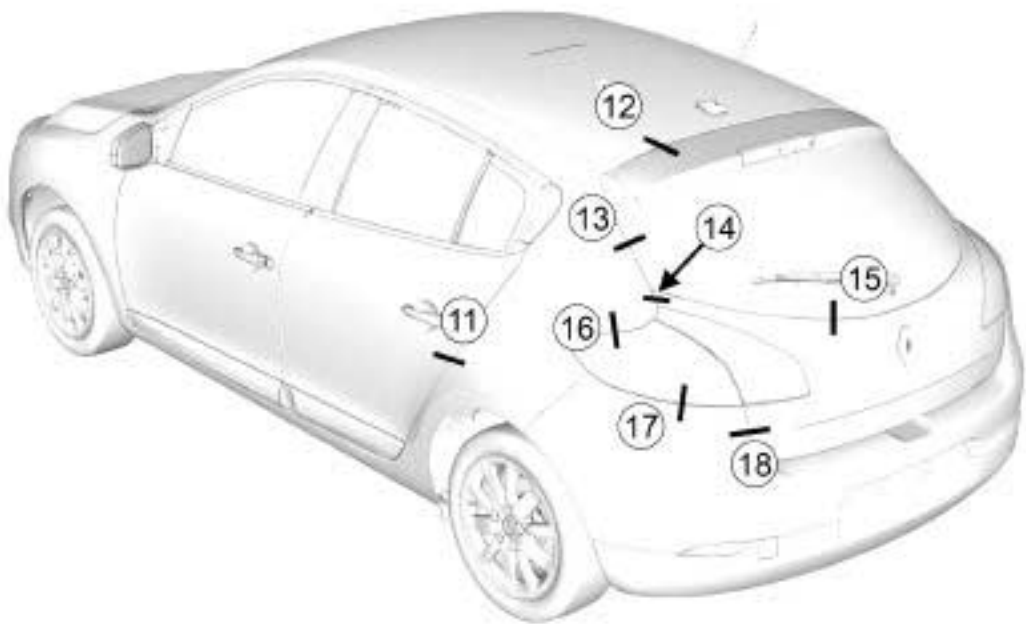
VEHICLE BODYWORK SPECIFICATIONS

Vehicle clearances: Adjustment values

01C

B95 or D95 or K95

B95



137529

No.	Location	Clearances (mm)
(11)	rear side door / rear wing	4 ± 0.8
(12)	roof / tailgate	5 ± 1.5
(13)	tailgate / rear wing	4.5 ± 2
(14)	tailgate / rear wing	4 ± 1.7
(15)	tailgate / rear screen	3 ± 1
(16)	rear wing / rear light	1 ± 0.7
(17)	rear bumper / rear light	1.5 ± 1
(18)	tailgate / rear bumper	4 ± 2

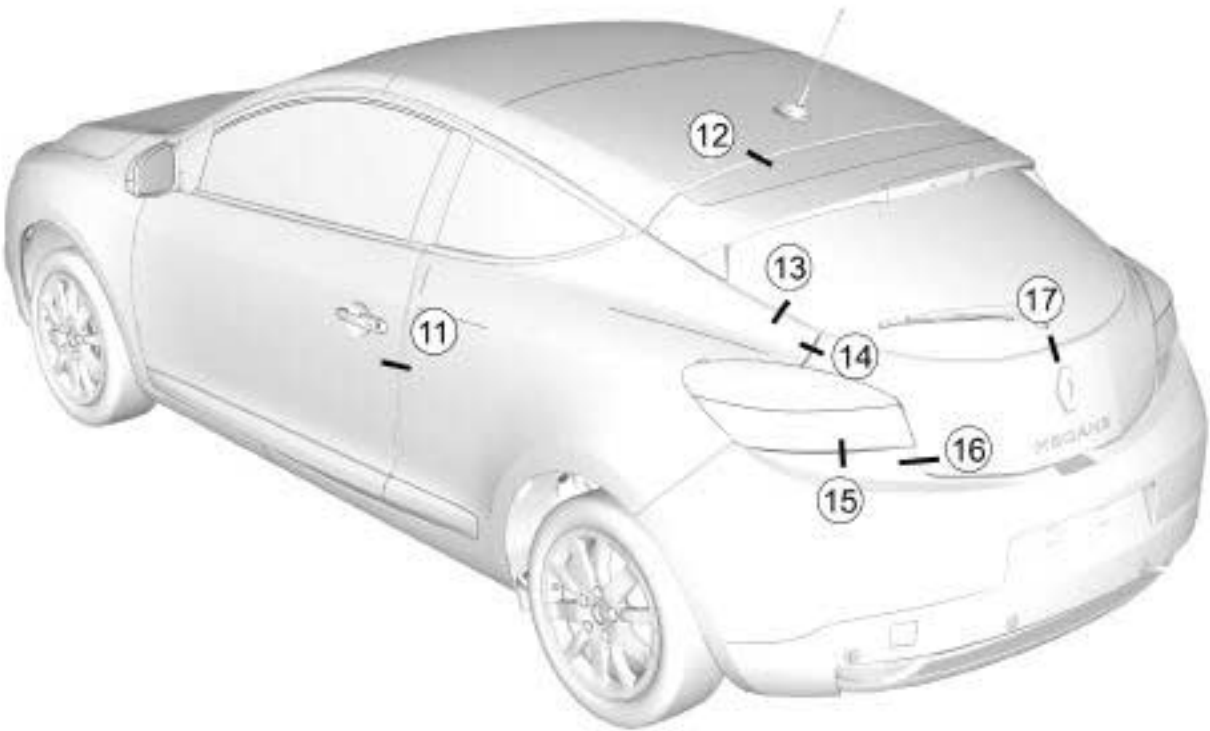
VEHICLE BODYWORK SPECIFICATIONS

Vehicle clearances: Adjustment values

01C

B95 or D95 or K95

D95



137530

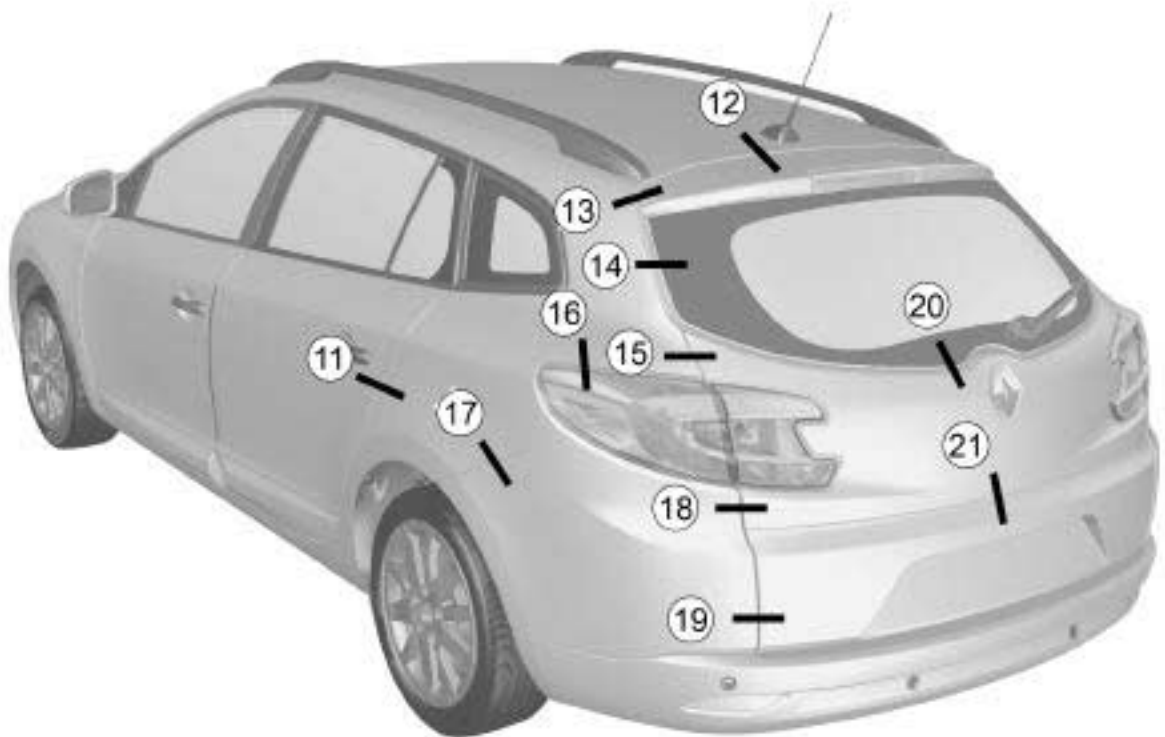
No.	Location	Clearances (mm)
(11)	rear side door / rear wing	4 ± 0.8
(12)	roof / tailgate	5 ± 1.5
(13)	tailgate / rear wing	4.5 ± 2
(14)	tailgate / rear wing	4 ± 1.7
(15)	rear bumper / rear light	1.5 ± 1
(16)	rear bumper / tailgate	4 ± 2
(17)	tailgate / rear screen	3 ± 1

VEHICLE BODYWORK SPECIFICATIONS
Vehicle clearances: Adjustment values

01C

B95 or D95 or K95

K95



142811

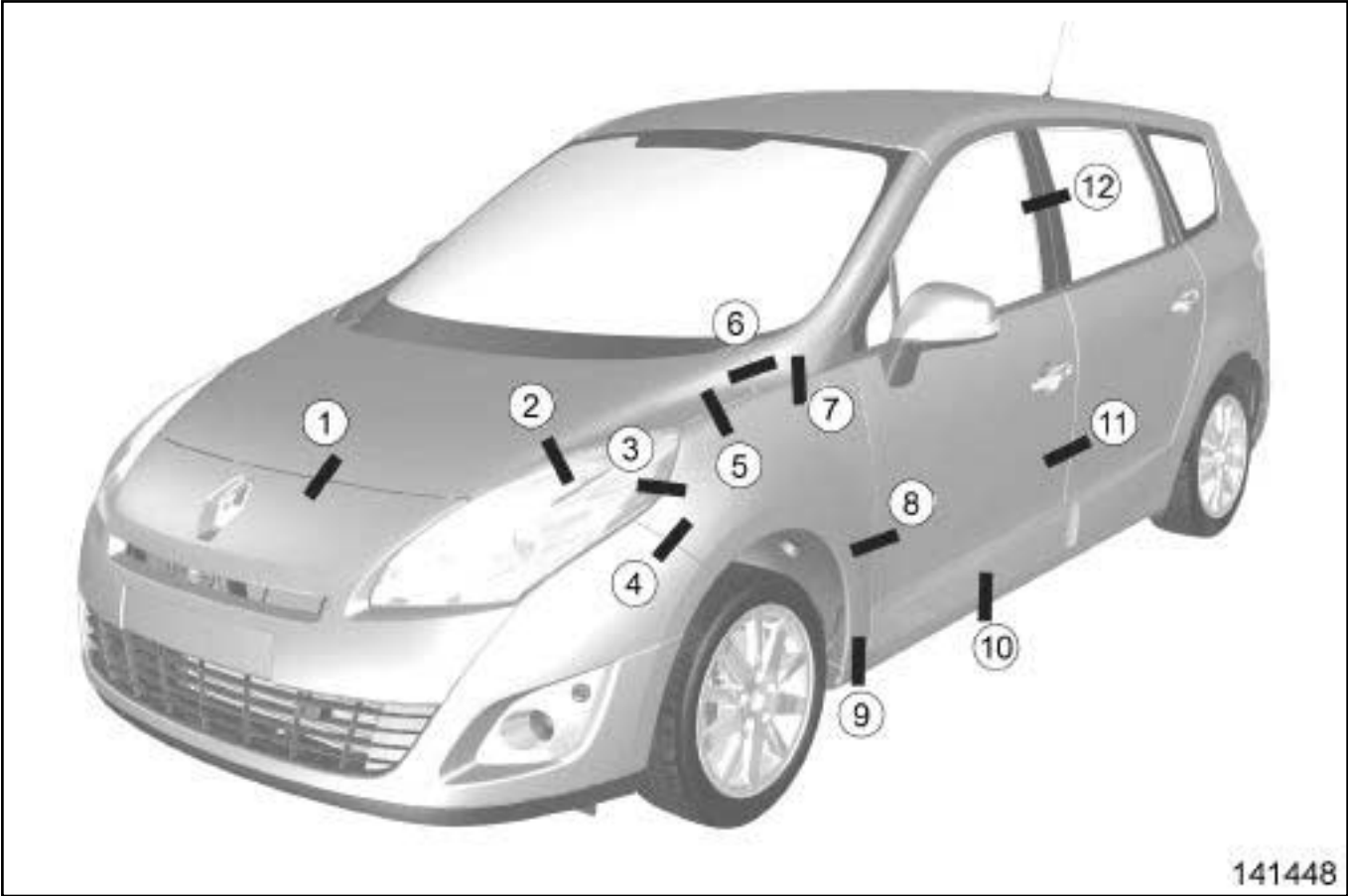
142811

No.	Location	Clearances (mm)
(11)	rear side door / rear wing panel	4 ± 0.8
(12)	roof / tailgate	5.2 ± 1.5
(13)	rear wing panel / tailgate spoiler	4 ± 1.5
(14)	rear wing panel / rear screen	4.5 ± 2
(15)	rear wing panel / tailgate	4 ± 2
(16)	rear wing panel / rear light	1.2 ± 1
(17)	rear wing panel / rear bumper	0.5 ± 0.5
(18)	rear bumper / tailgate	4 ± 2
(19)	rear bumper / tailgate strip	4.5 ± 2
(20)	rear screen / tailgate	3.5 ± 1
(21)	tailgate / tailgate strip	0.5 ± 0.5

B95 or D95 or K95



J95



141448

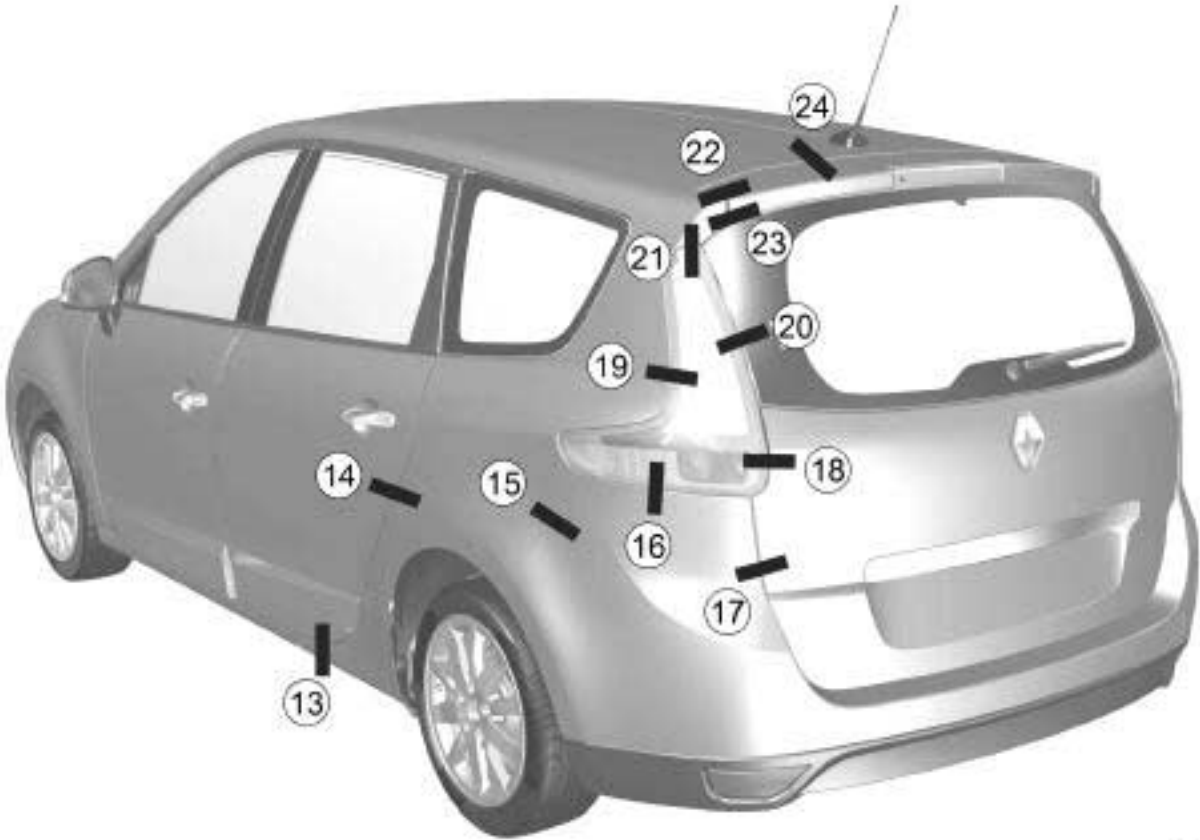
141448

|

No.	Location	Clearances (mm)
(1)	bonnet / front bumper	3.5 ± 1.5
(2)	bonnet / headlight	3.5 ± 2
(3)	headlight / front wing	1.5 ± 0.8
(4)	front bumper / front wing	0.4 ± 0.4
(5)	front wing / bonnet	3.5 ± 1
(6)	bonnet / A-pillar	3.5 ± 1
(7)	A-pillar / front wing	0.4 ± 0.4
(8)	front side door / front wing	3.8 ± 0.8
(9)	front wing / sill panel	2.4 ± 1.3
(10)	front side door / sill panel	4.5 ± 1.5
(11)	front side door / rear side door	4.2 ± 1
(12)	front side door / rear side door	4.2 ± 1.5

J95

LONG CHASSIS



141449

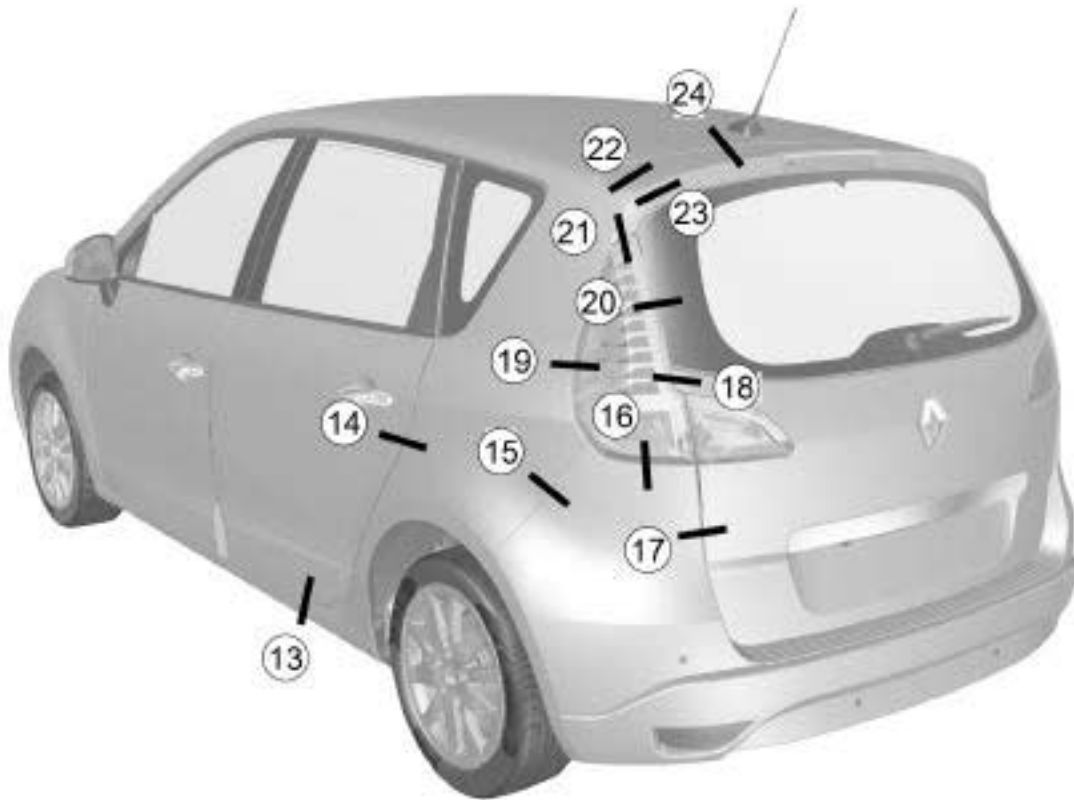
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VEHICLE BODYWORK SPECIFICATIONS
Vehicle clearances: Adjustment values

01C

J95

STANDARD CHASSIS



142810

142810

No.	Location	Clearances (mm)
(13)	rear side door / sill panel	4.5 ± 1.5
(14)	rear side door / body side	3.8 ± 0.8
(15)	body side / rear bumper	0.4 ± 0.4
(16)	rear light / rear bumper	1
(17)	luggage compartment lid / rear bumper	4 ± 1.5
(18)	rear light / luggage compartment lid	4 ± 1.6
(19)	rear light / body side	1 ± 0.7
(20)	rear light / rear screen	4 ± 1.6
(21)	rear light / body side	1
(22)	body side / luggage compartment lid	4 ± 1.5

J95

No.	Location	Clearances (mm)
(23)	body side / luggage compartment lid	4
(24)	luggage compartment lid / roof	5 ± 1.3

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.

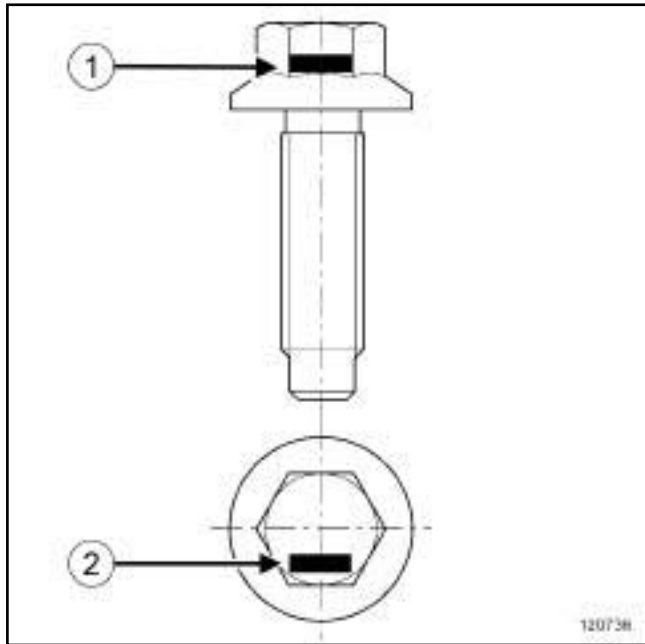
Maintenance and repair operations must be carried out under the proper conditions to ensure that our vehicles run safely and reliably.

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



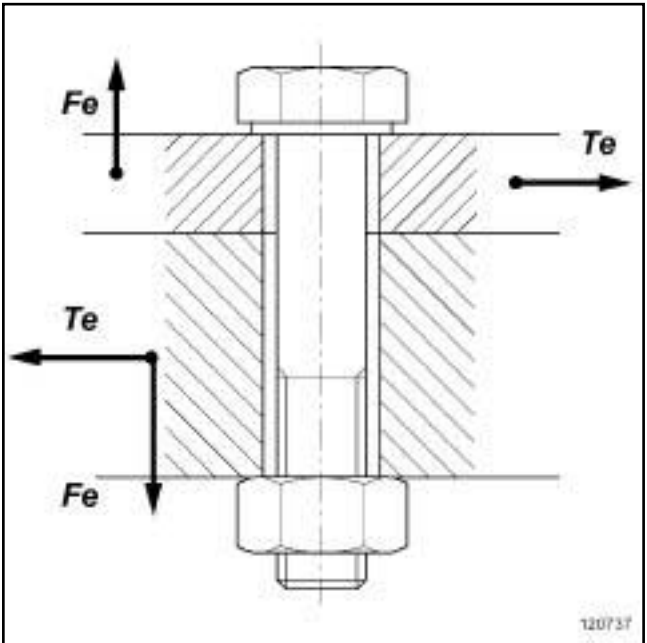
120736

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

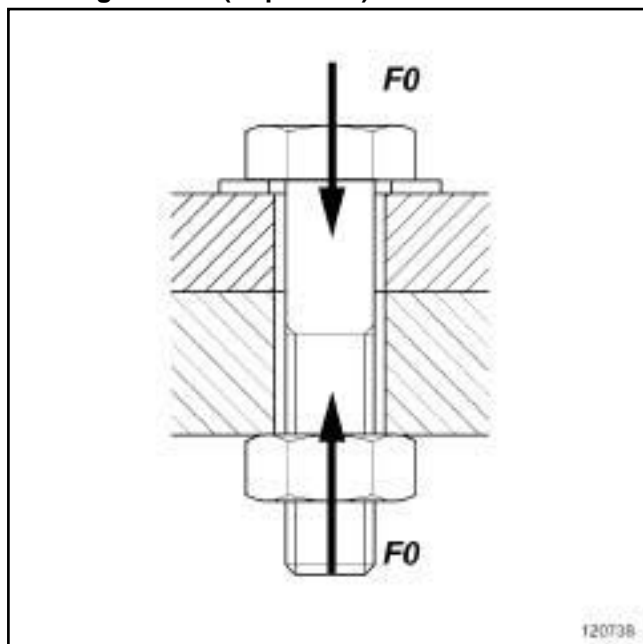


120737

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

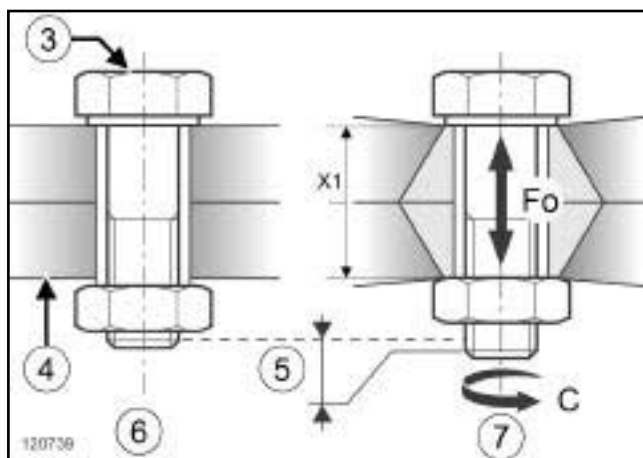


120738

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.

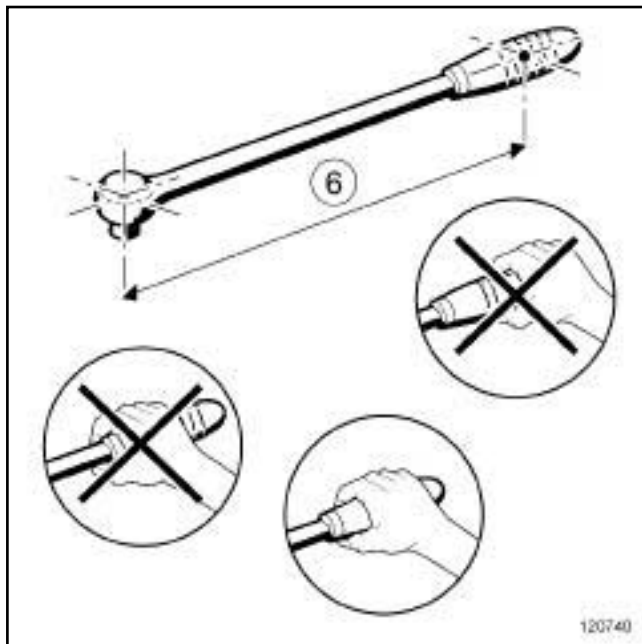
VI - PRECAUTIONS WHEN USING A CLICK TYPE TORQUE WRENCH

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.

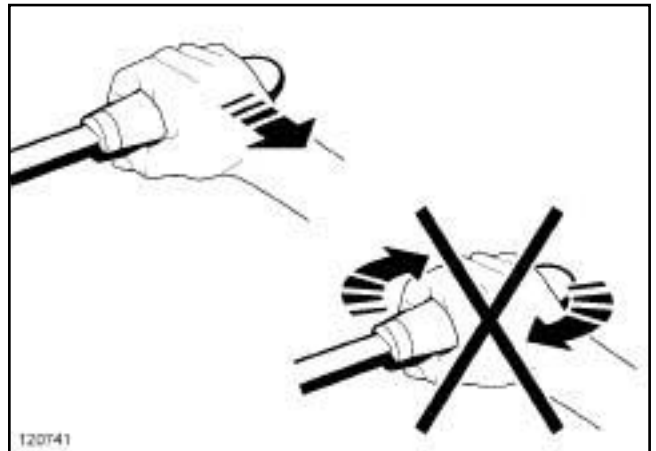
When used following best practises, the accuracy of the tightness when using a click type torque wrench is $\pm 15\%$.

The instructions to be observed are:



(6) lever arm

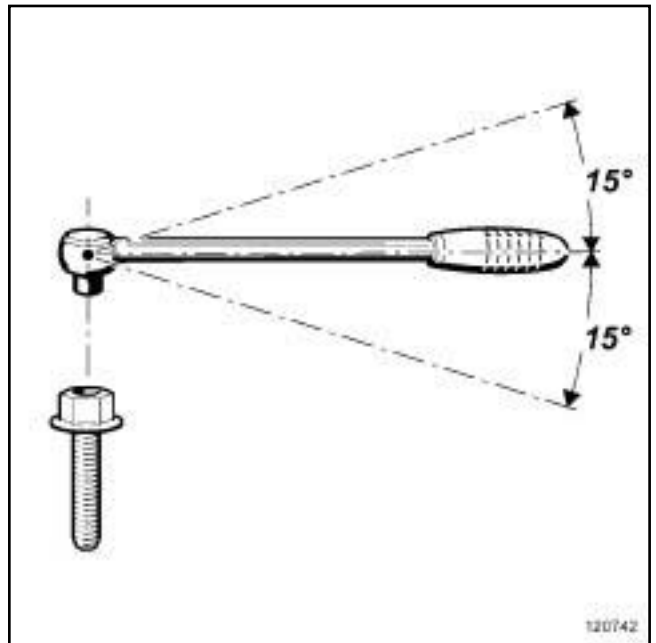
- Place the hand in the centre of the handle. An incorrectly positioned hand on the handle will alter the trigger threshold.



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.

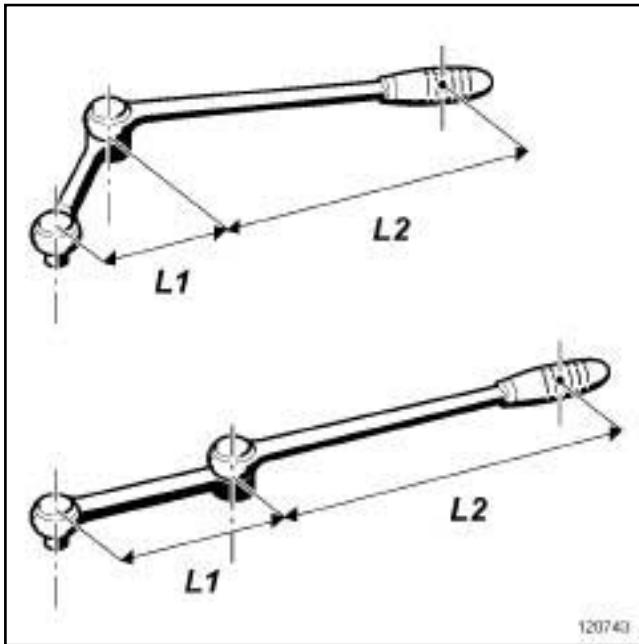
- Hold the wrench on the bolt using a minimum of effort. Any effort applied to the wrench head will alter the trigger threshold.



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.

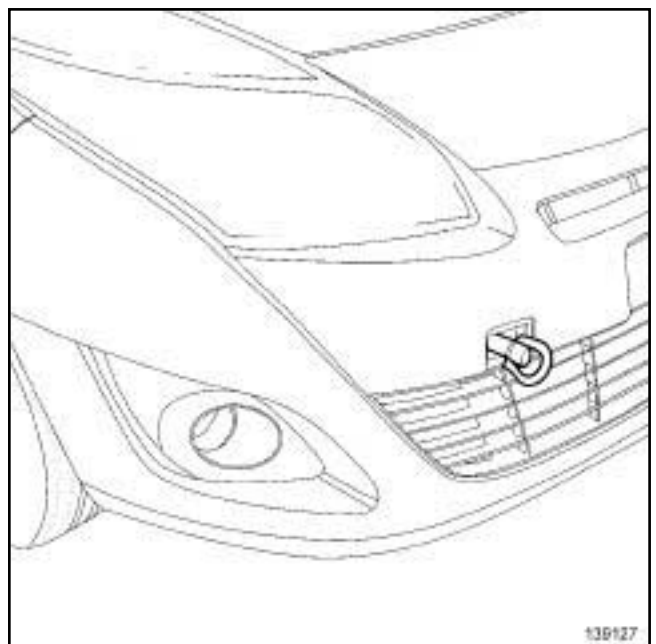
1 - position of front attachment point

B95 or D95



137700

J95



139127

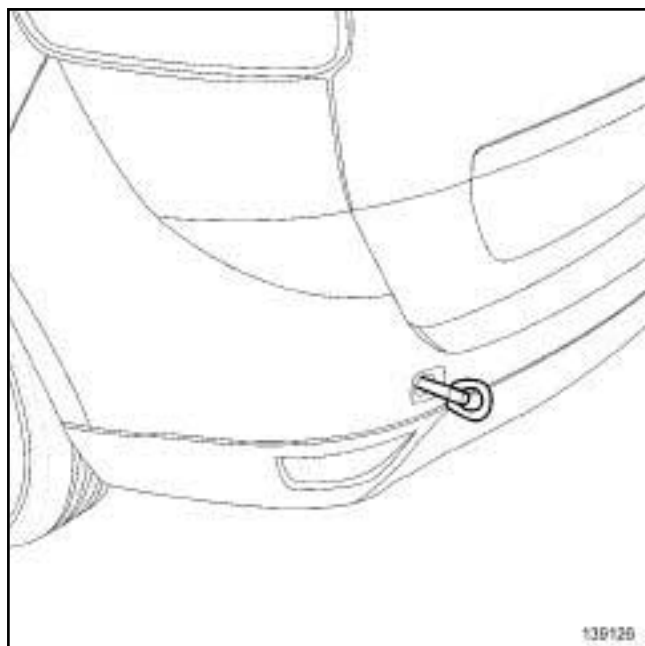
2 - position of rear attachment point

B95 or D95



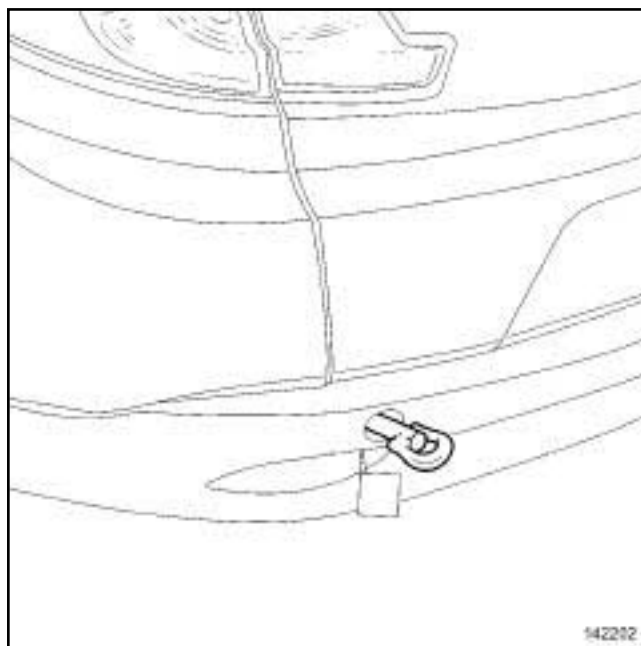
137702

J95



139126

K95



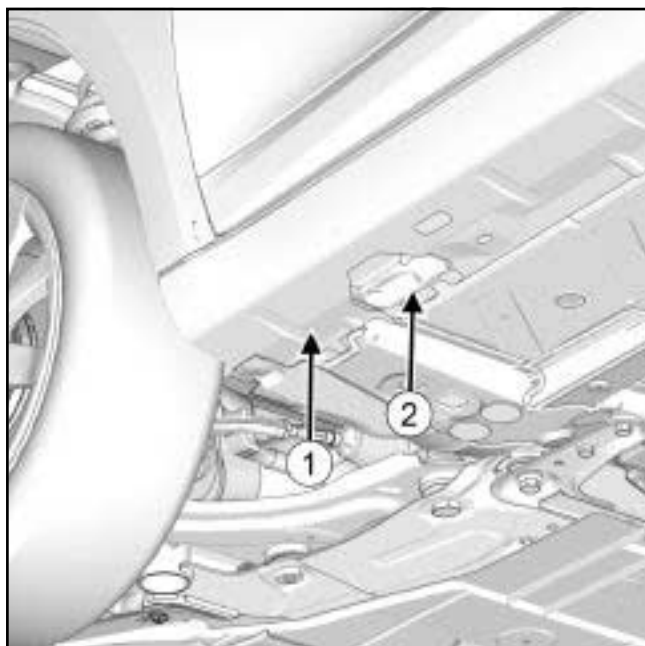
142202

Fully screw in the tow eye supplied in the onboard vehicle tool kit located in the luggage compartment inside the emergency spare wheel.

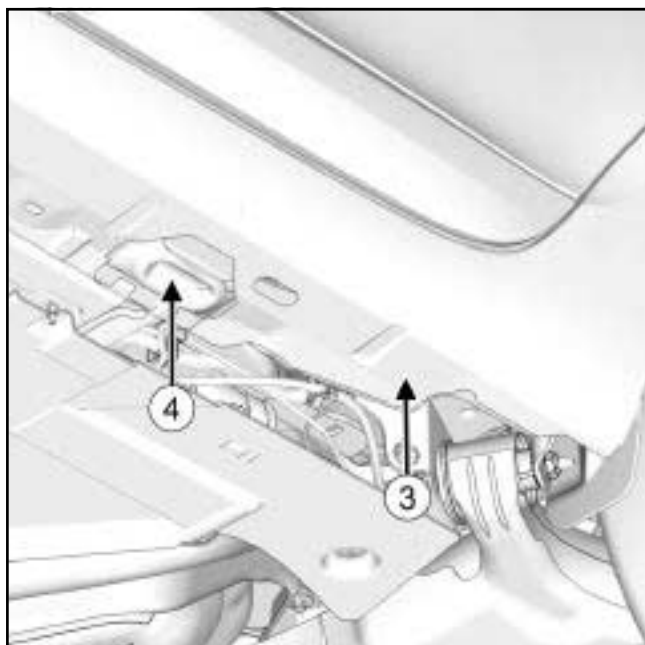
II - LIFTING BY TROLLEY JACK

IMPORTANT

To prevent any accidents, the trolley jack must only be used to lift and/or move the vehicle. The vehicle height must be maintained with axle stands which are strong enough to support the weight of the vehicle.



137695

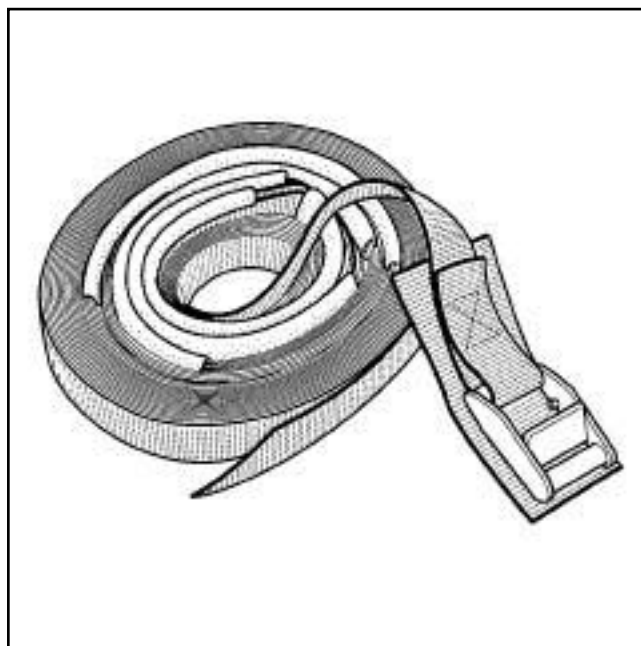


137698

To mount the vehicle on axle stands, the entire vehicle must be lifted on one side at (3) (1) and axle stands must be placed under the reinforcements provided as jacking points for the vehicle's own jack at (4) , (2) .

III - LIFTING ON A LIFT

1 - Safety advice reminder



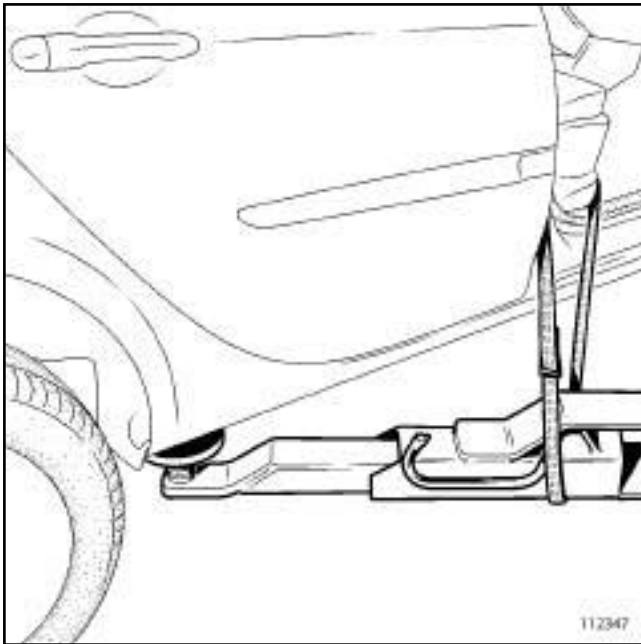
131005

Safety advice reminder:

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 the Parts Department.

2 - Fitting the straps



Fitting the straps:

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

Pass 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 belt through the inside of the vehicle again.

Tighten the strap.

b - tilting towards the rear

Pass 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 belt through the inside of the vehicle again.

Tighten the strap.

c - Permitted jacking points

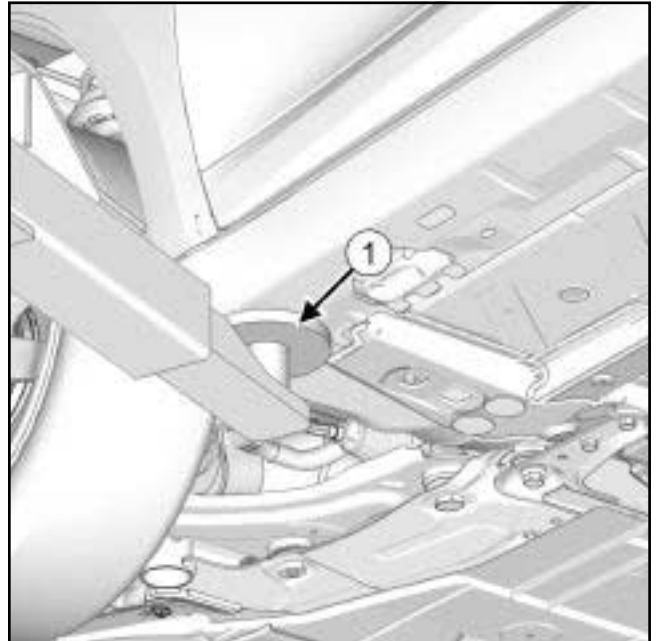
To lift the vehicle, position the pads of the lifting arms as shown below, taking care not to damage the underside of the sill panel.

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



position the lift arms under the side cross members (1)

Rear lifting points



LIFTING EQUIPMENT

Vehicle: Towing and lifting

02A

Position the lift arms under the end of the sill panel body flanges (3) .

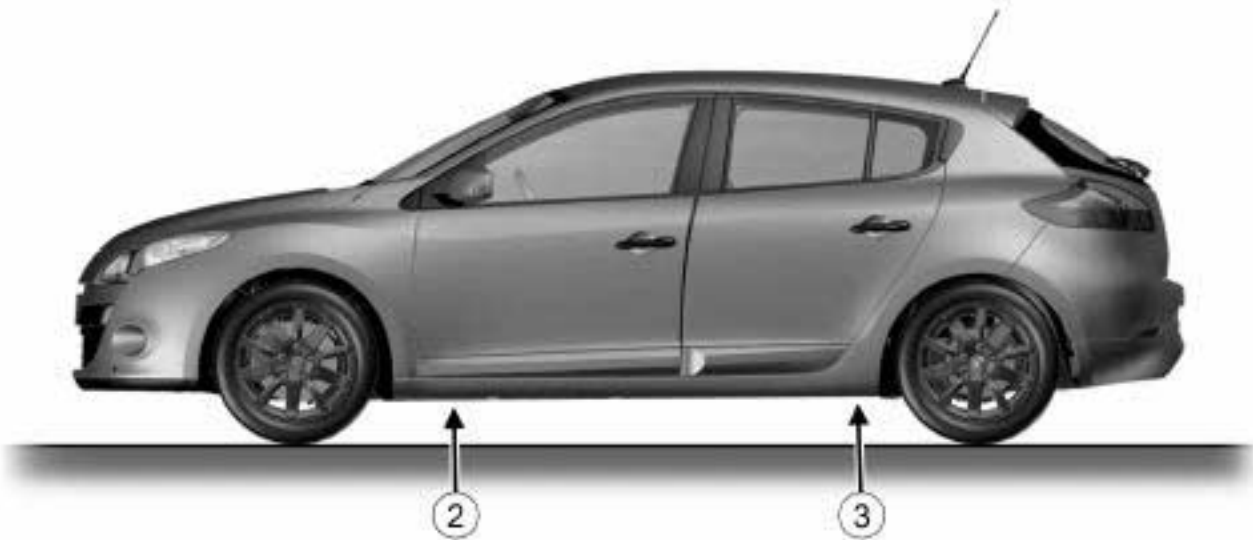
Note:

If this arrangement is not possible, notably when underbody supports are being used for bodywork rebuilding on a body jig bench, depending on the case, proceed as follows.

IV - DISENGAGING THE JACKING POINTS

1 - Disengaging the front side cross members

B95



137705

D95



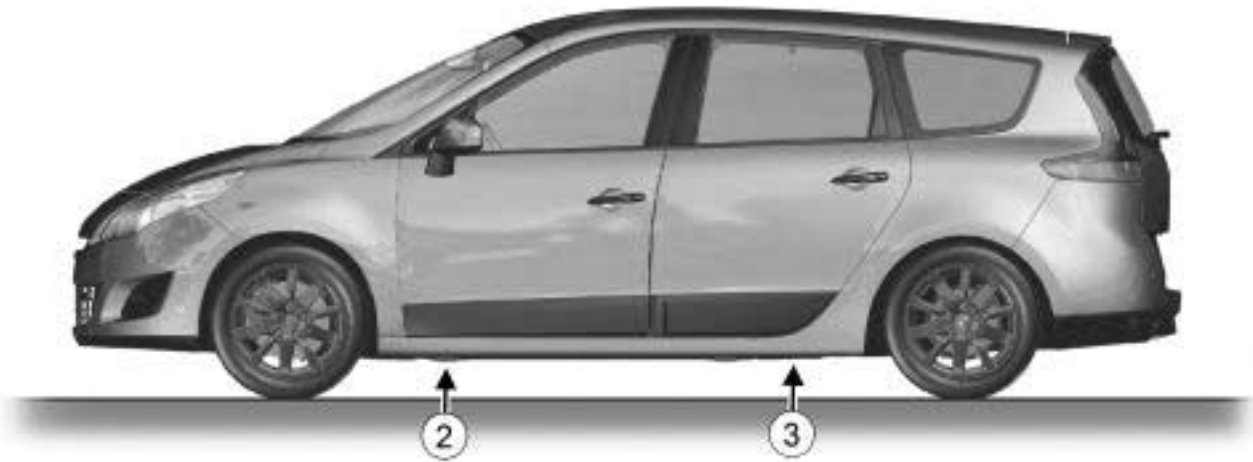
137706

LIFTING EQUIPMENT

Vehicle: Towing and lifting

02A

J95, and LONG CHASSIS



141762

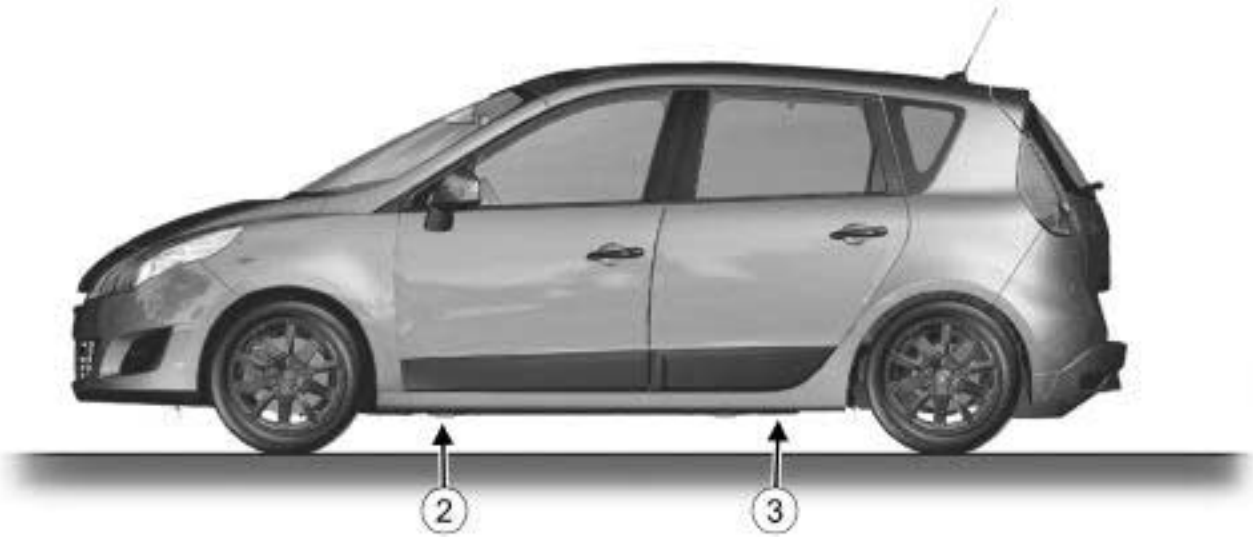
141762

LIFTING EQUIPMENT

Vehicle: Towing and lifting

02A

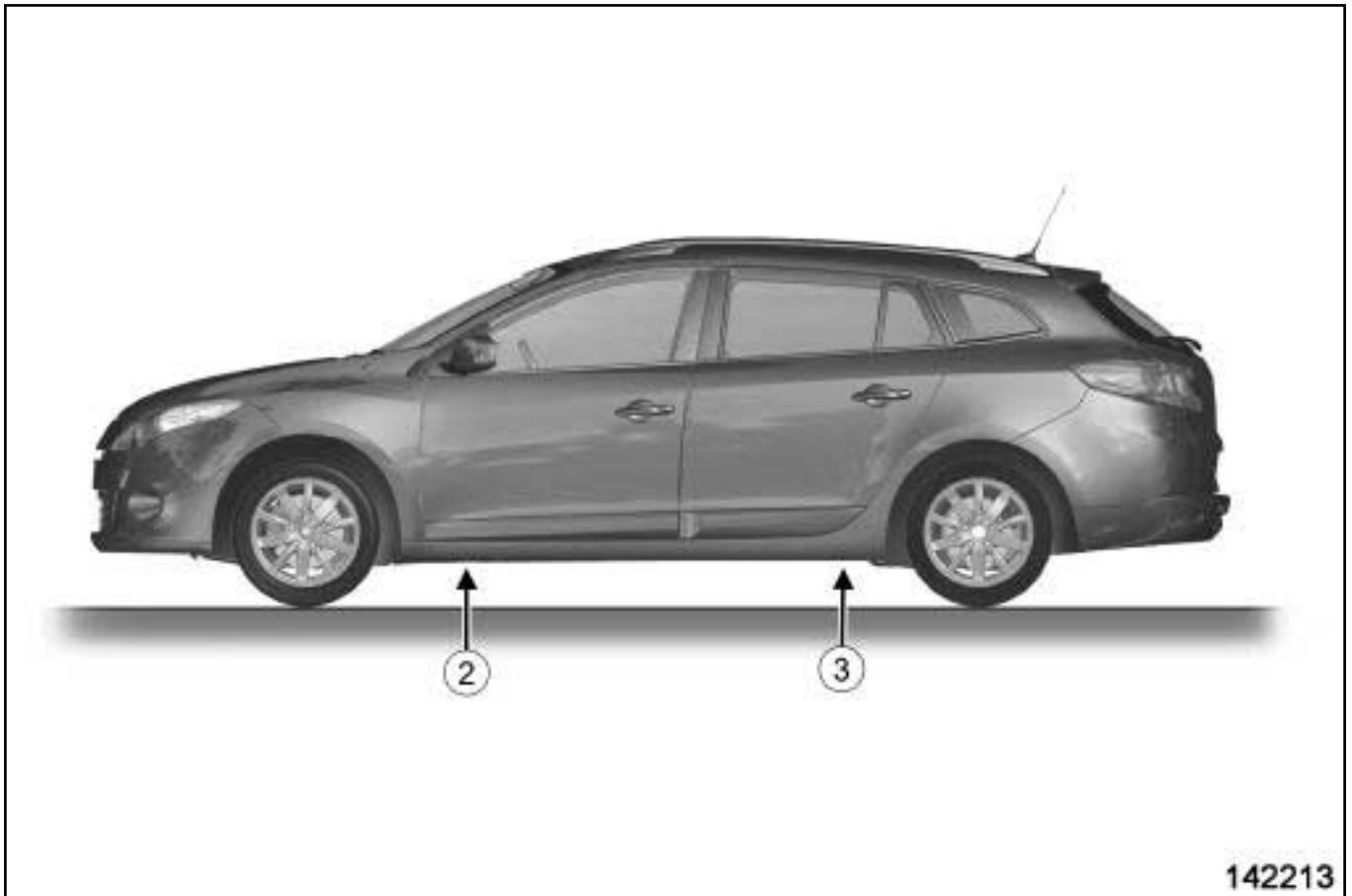
J95, and STANDARD CHASSIS



141761

141761

K95

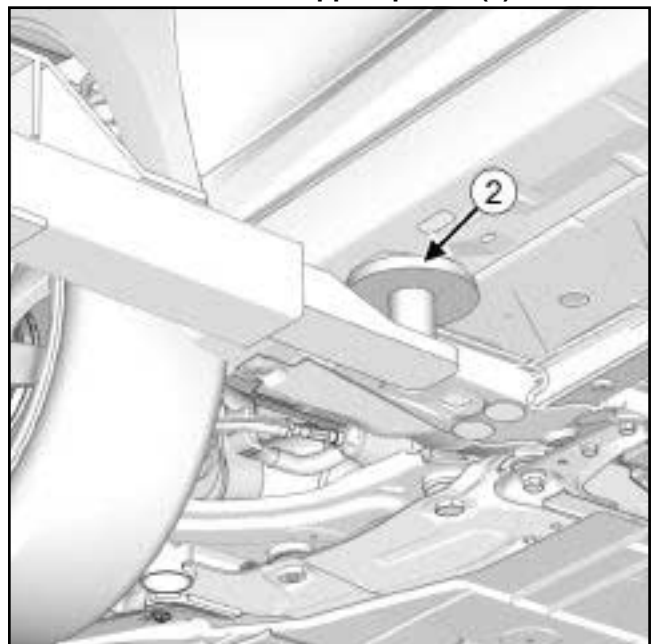


142213

142213

support the vehicle at the jacking points at the front **(2)** and under the sill panel body flanges at the rear **(3)**.

Detailed view of front support points (2)



137694

LIFTING EQUIPMENT

Vehicle: Towing and lifting

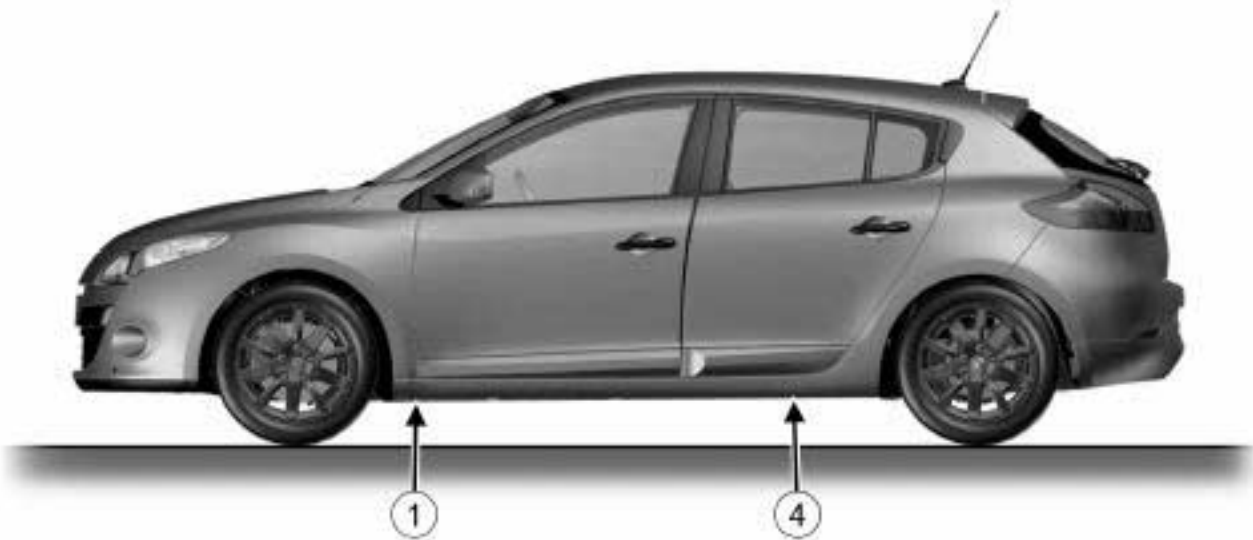
02A

IMPORTANT

This situation increases the risk of the vehicle tilting forwards; removing components from the rear section of the vehicle is therefore prohibited.

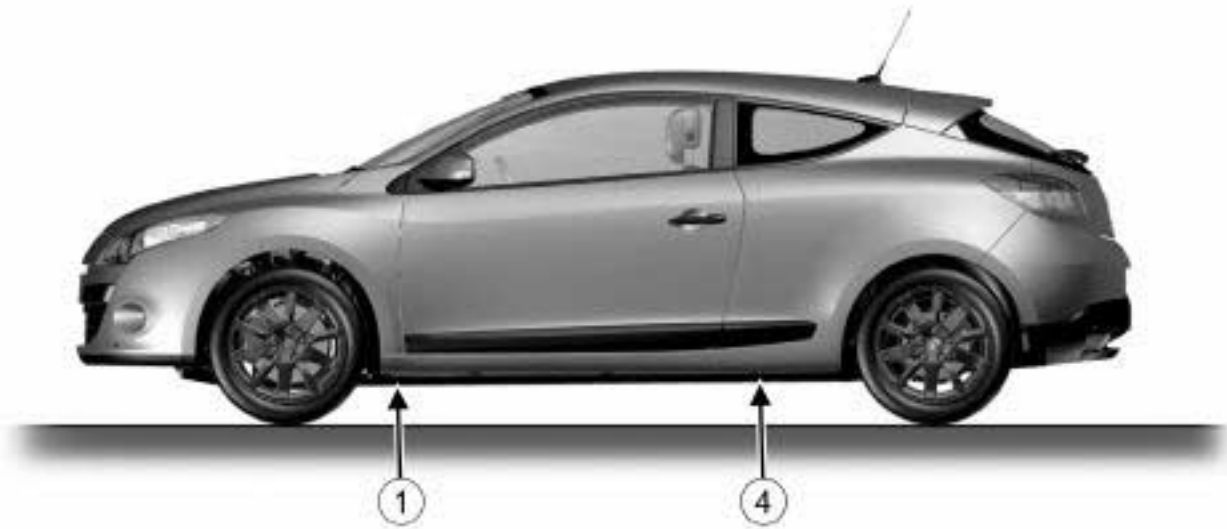
2 - disengaging the rear sill panel body flanges

B95



137705

D95



137706

LIFTING EQUIPMENT

Vehicle: Towing and lifting

02A

J95, and LONG CHASSIS



141762

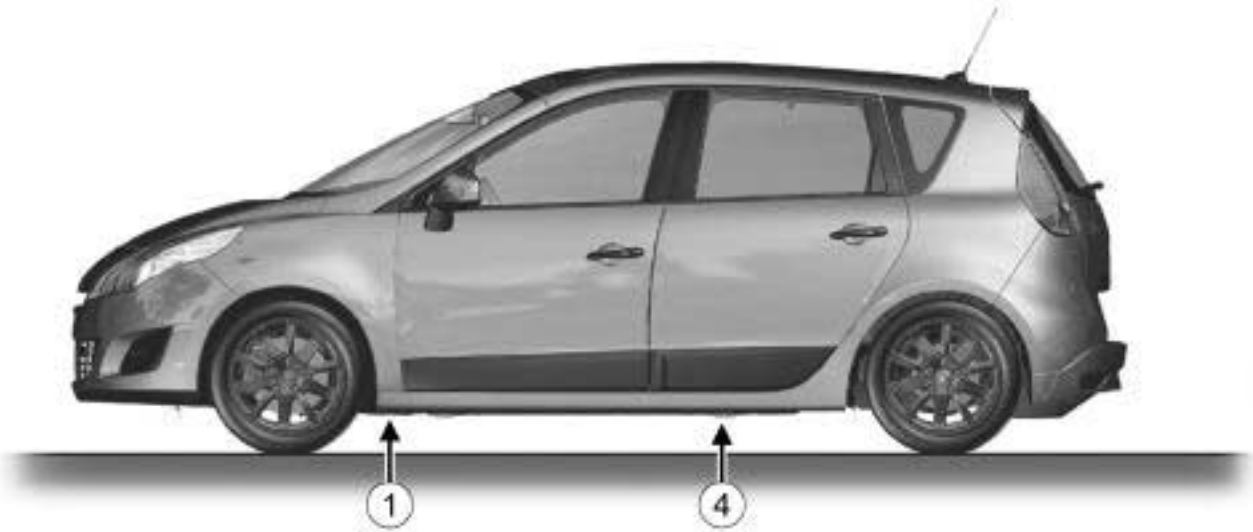
141762

LIFTING EQUIPMENT

Vehicle: Towing and lifting

02A

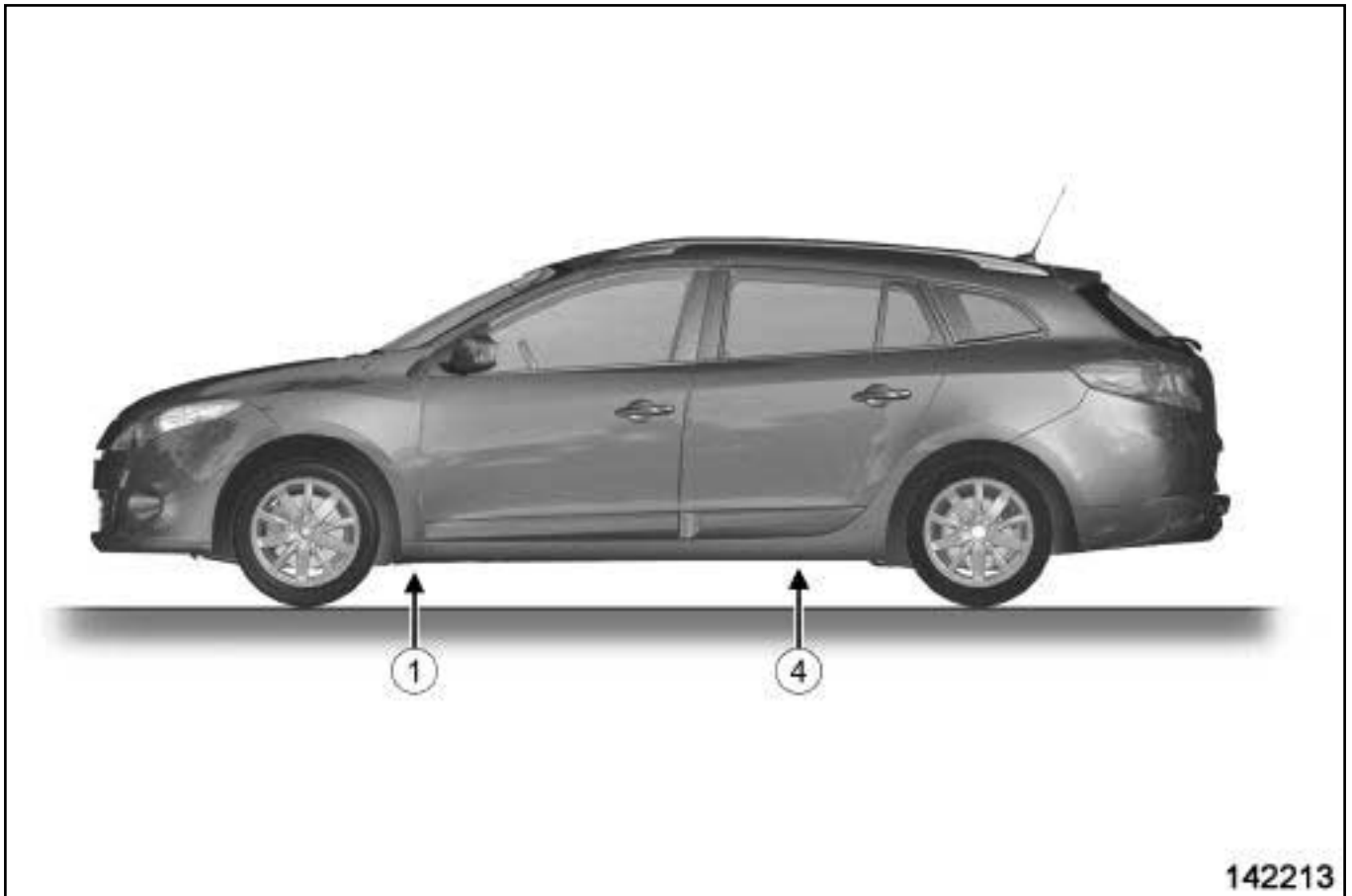
J95, and STANDARD CHASSIS



141761

141761

K95

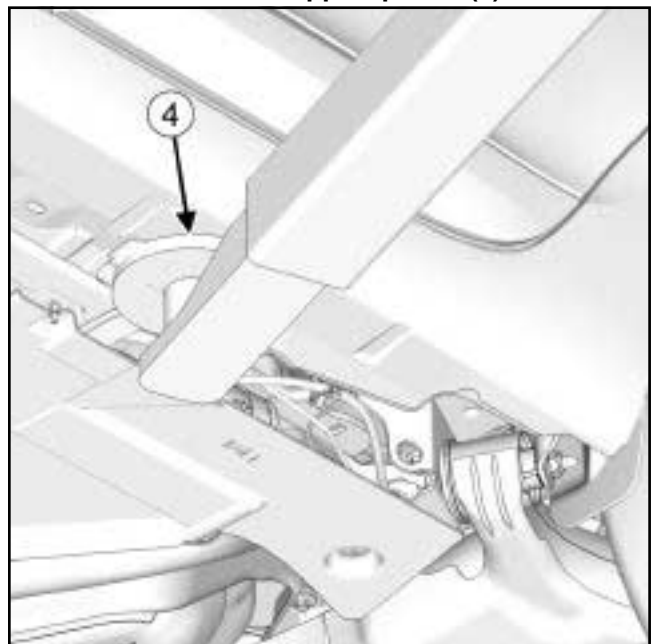


142213

142213

support the vehicle under the side cross members at the front **(1)** , and under the jacking points at the rear **(4)** .

Detailed view of rear support points (4)



137697

LIFTING EQUIPMENT

Vehicle: Towing and lifting

02A

IMPORTANT

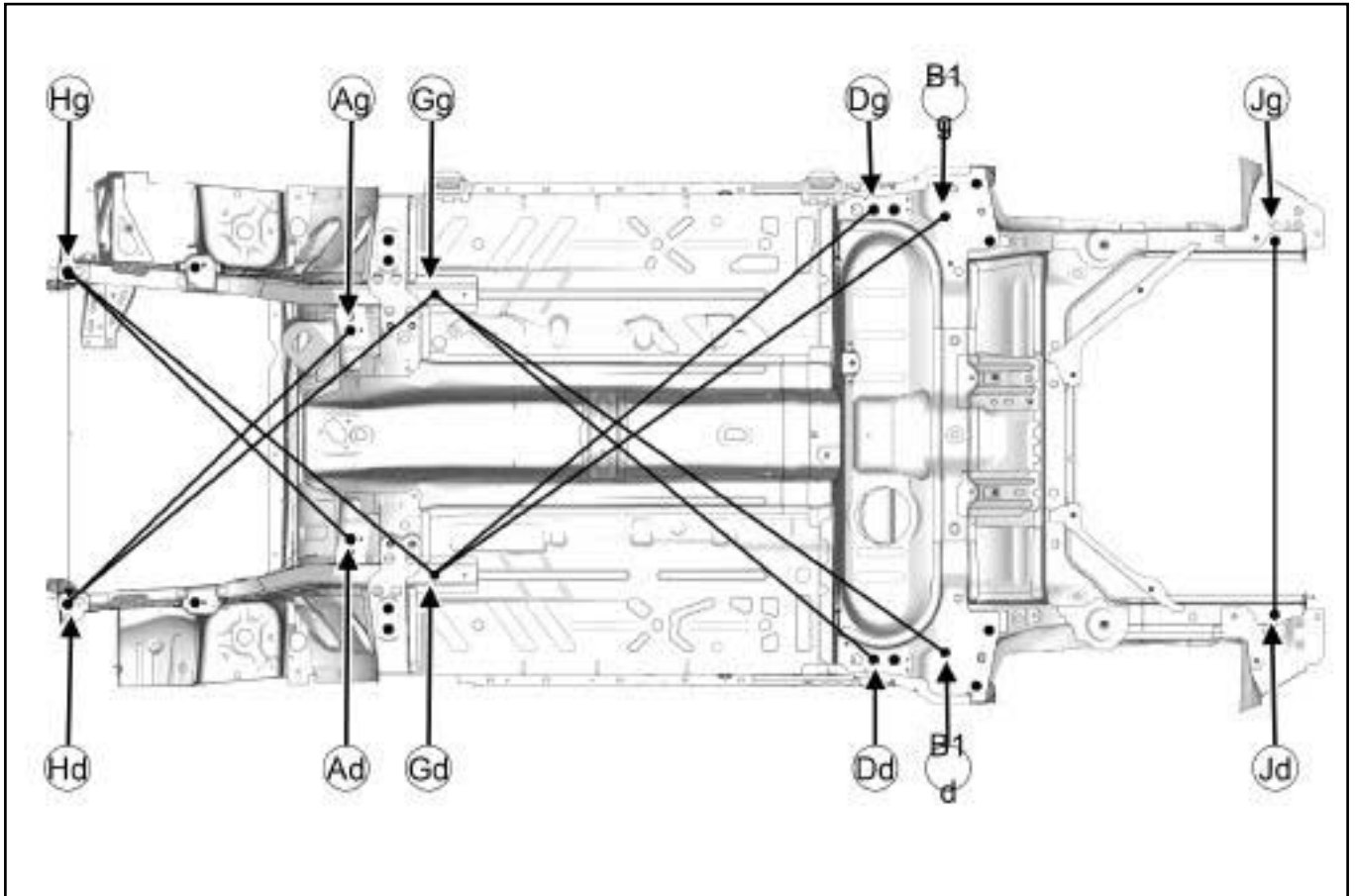
In this instance, the risk of the vehicle tilting towards the rear is high. It is forbidden to remove components from the front section of the vehicle.

Damaged vehicle: Collision fault finding

B95 or D95 or K95

I - CHECKING THE SUBFRAME

B95 or D95

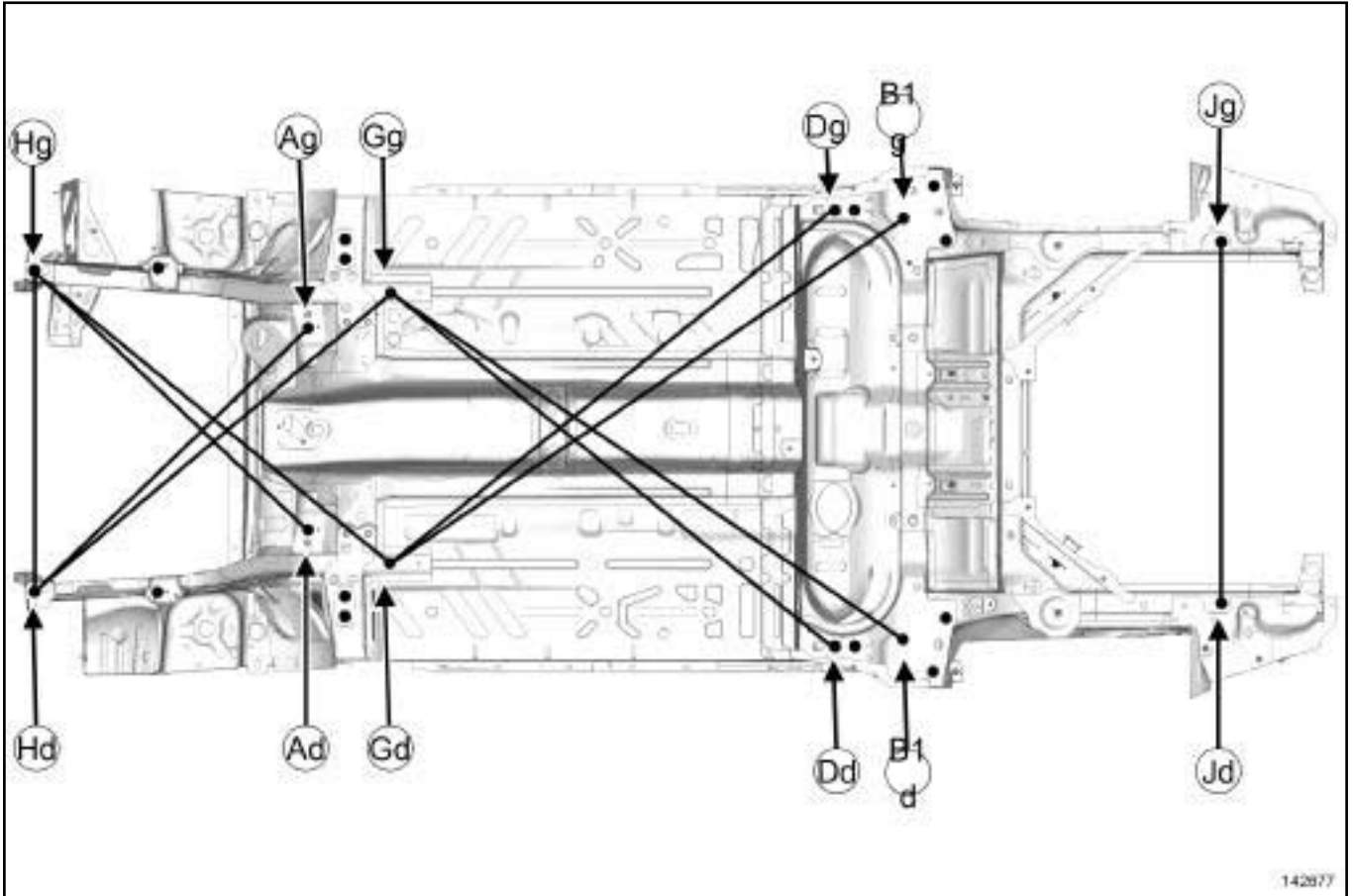


137224

□

B95 or D95 or K95

K95



142677

□

$$- (Dg) - (Jd) = 1667 \text{ mm}$$

$$- (Dd) - (Jg) = 1695 \text{ mm}$$

$$- (Jg) - (Jd) = 1087 \text{ mm}$$

□

Note:

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

Chronological order of checks

Front impact:

$$- (Dg) - (Gd) = (Dd) - (Gg)$$

$$- (Gg) - (Hd) = 1400 \text{ mm}$$

$$- (Gd) - (Hg) = 1390 \text{ mm}$$

$$- (Hg) - (Hd) = 968 \text{ mm}$$

Rear impact:

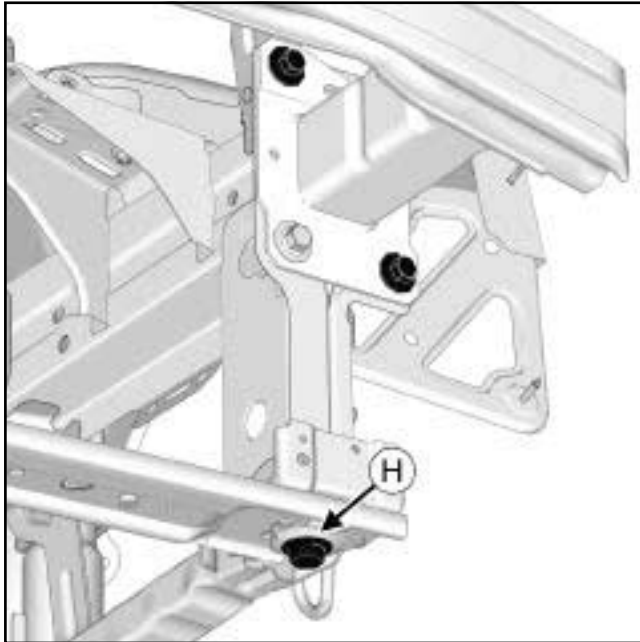
$$- (Dg) - (Gd) = (Dd) - (Gd)$$

$$- (Gg) - (B1d) = (Gd) - (B1g)$$

B95 or D95 or K95

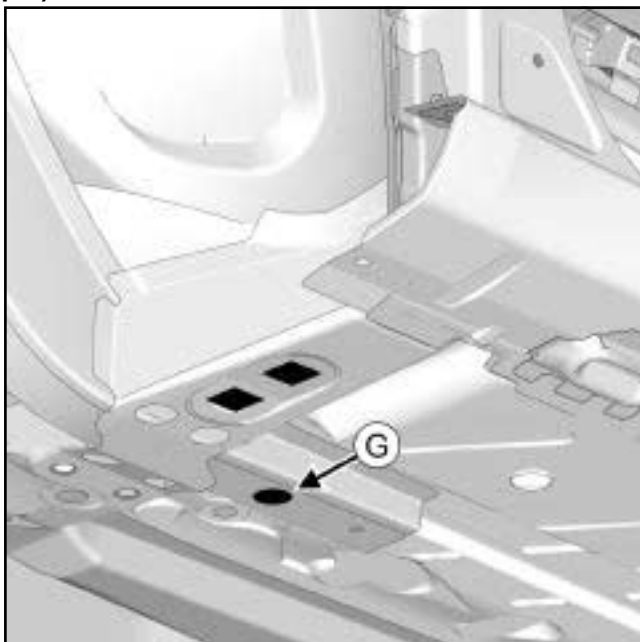
II - DETAILED VIEW OF INSPECTION POINTS

Points Hg and Hd (side member front leader pin)



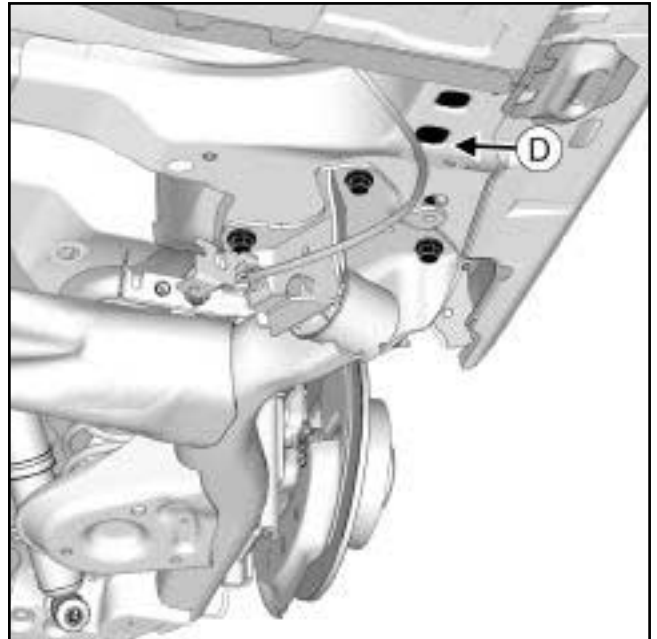
137227

Points Gg and Gd (front side member rear leader pin)



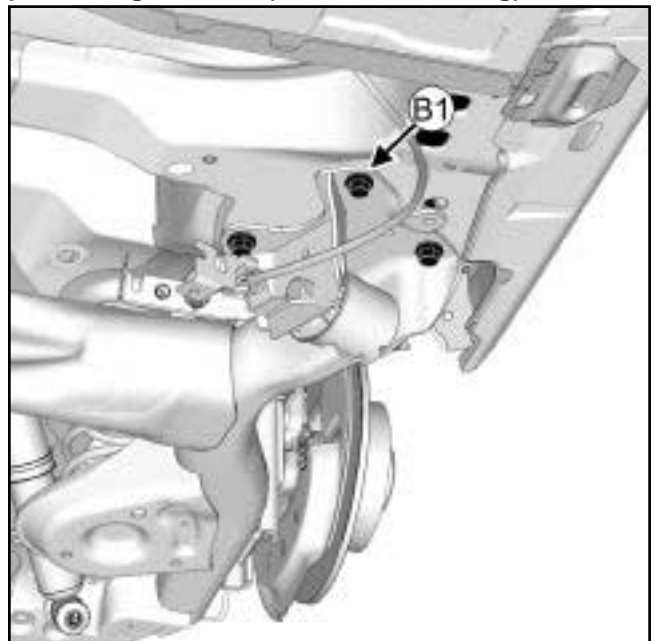
136911

Points Dg and Dd



136909

points B1g and B1d (rear axle mounting)

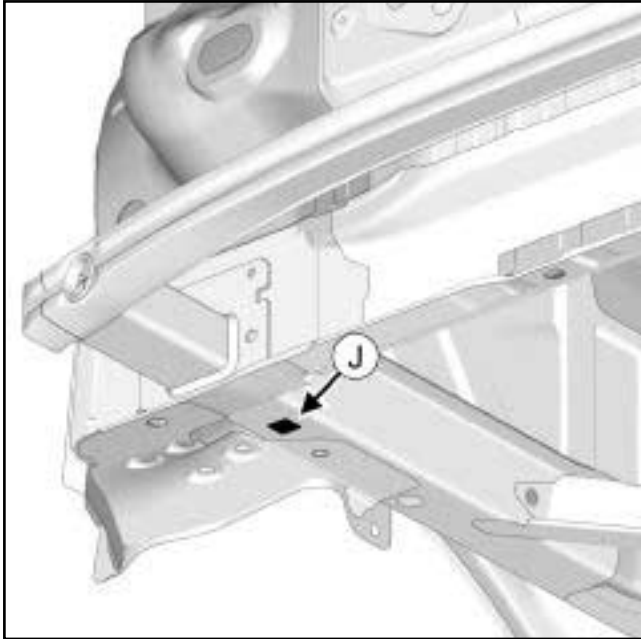


136909

Damaged vehicle: Collision fault finding

B95 or D95 or K95

Points Jg and Jd (side member rear leader pin)



136912

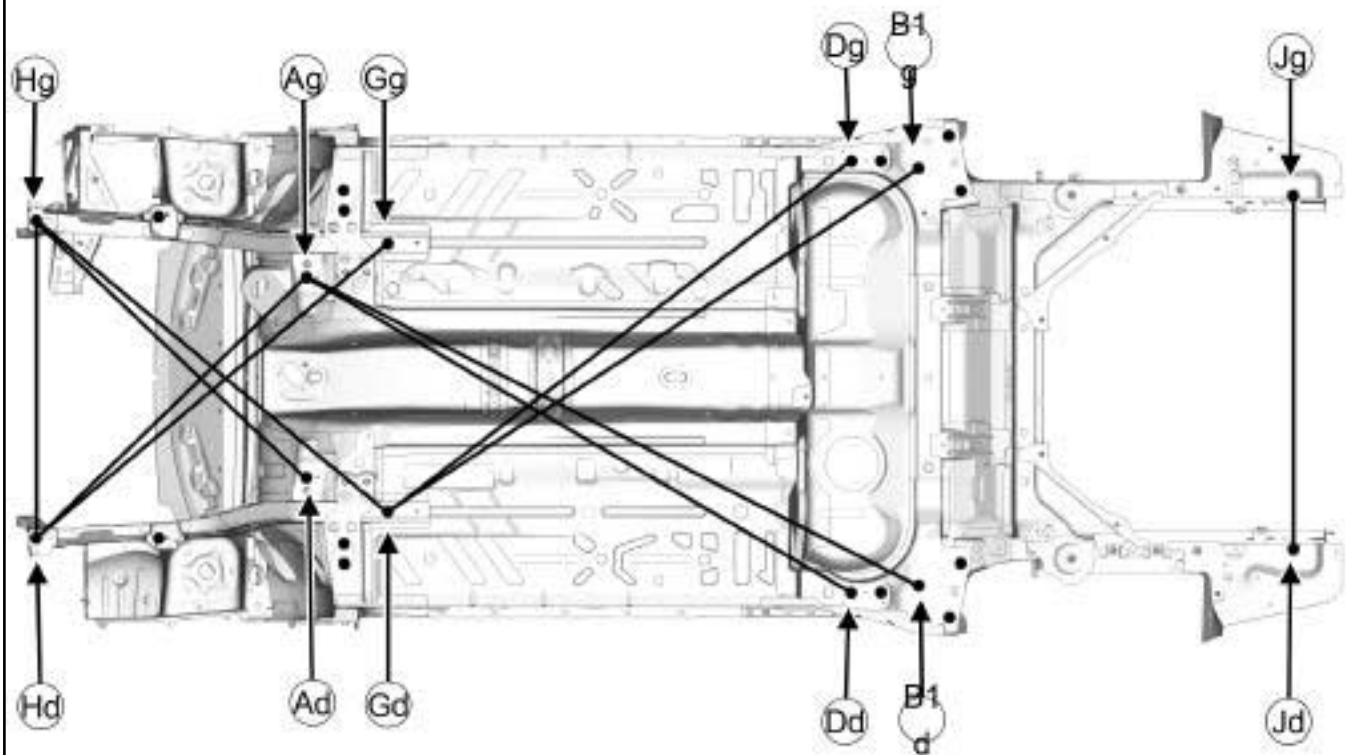


Damaged vehicle: Collision fault finding

J95

I - CHECKING THE SUBFRAME

LONG CHASSIS

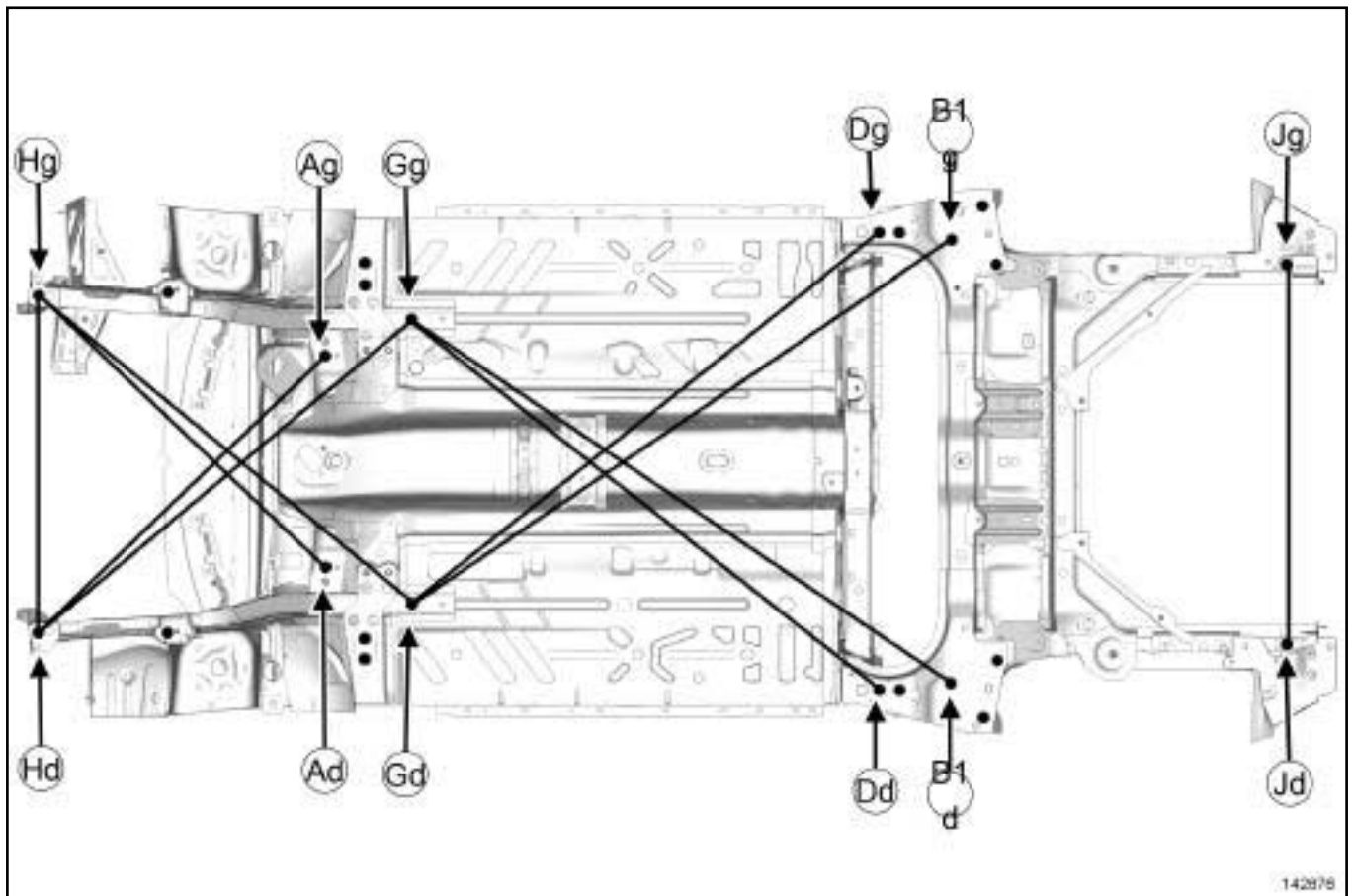


142675

142675

J95

STANDARD CHASSIS



142676

142676

□

□

Note:

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

Chronological order of checks

Front impact:

- $(Dg) - (Gd) = (Dd) - (Gg)$
- $(Gg) - (Hd) = 1400 \text{ mm}$
- $(Gd) - (Hg) = 1390 \text{ mm}$
- $(Hg) - (Hd) = 968 \text{ mm}$

Rear impact:

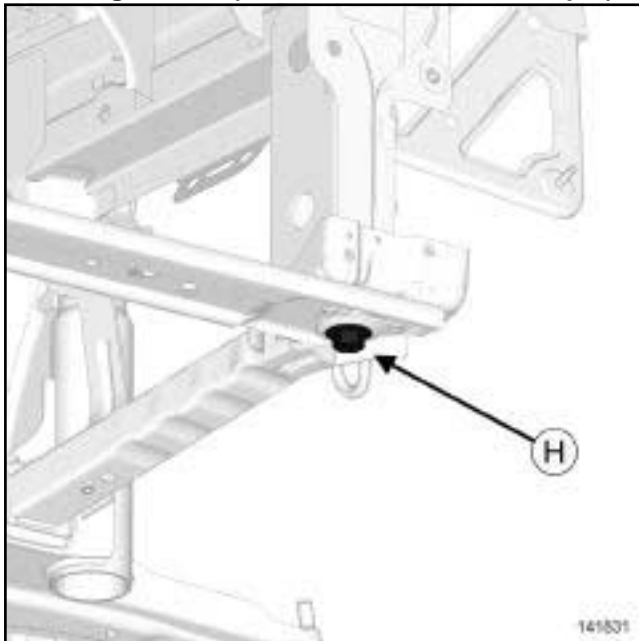
- $(Dg) - (Gd) = (Dd) - (Gd)$
- $(Dg) - (B1d) = (Dd) - (B1g)$

- $(Dg) - (Jd) = 1667 \text{ mm}$
- $(Dd) - (Jg) = 1695 \text{ mm}$
- $(Jg) - (Jd) = 1087 \text{ mm}$

J95

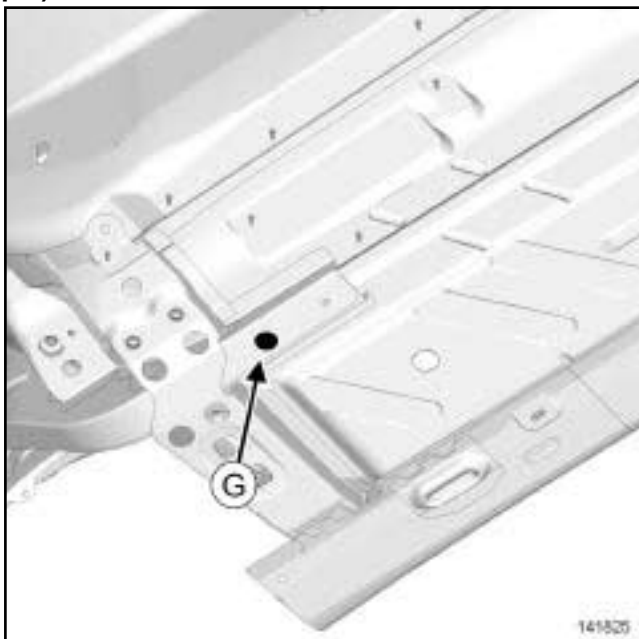
II - DETAILED VIEW OF INSPECTION POINTS

Points Hg and Hd (side member front leader pin)



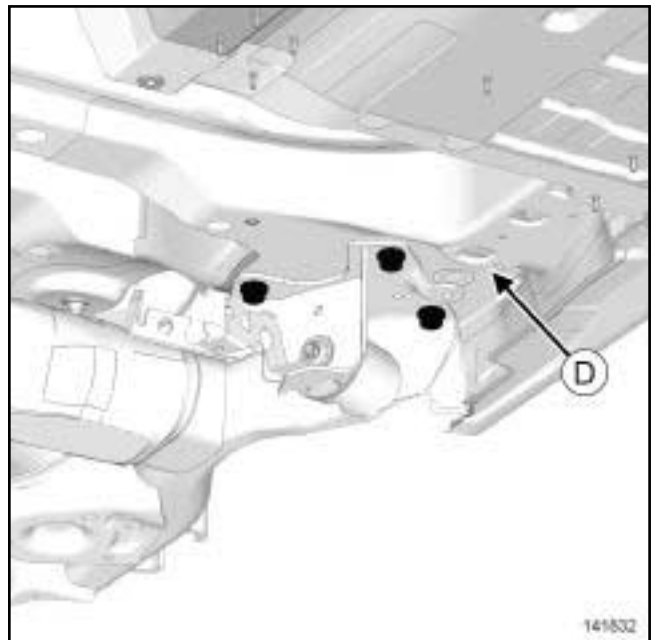
141831

Points Gg and Gd (front side member rear leader pin)



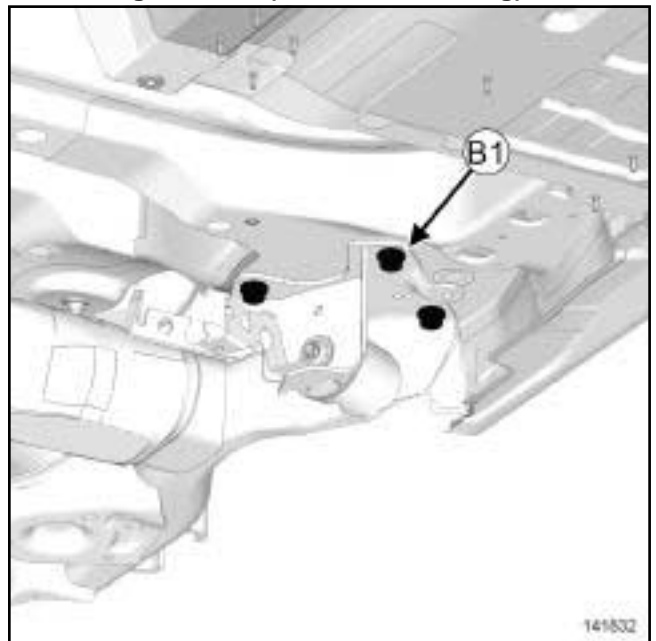
141825

Points Dg and Dd



141832

Points B1g and B1d (rear axle mounting)

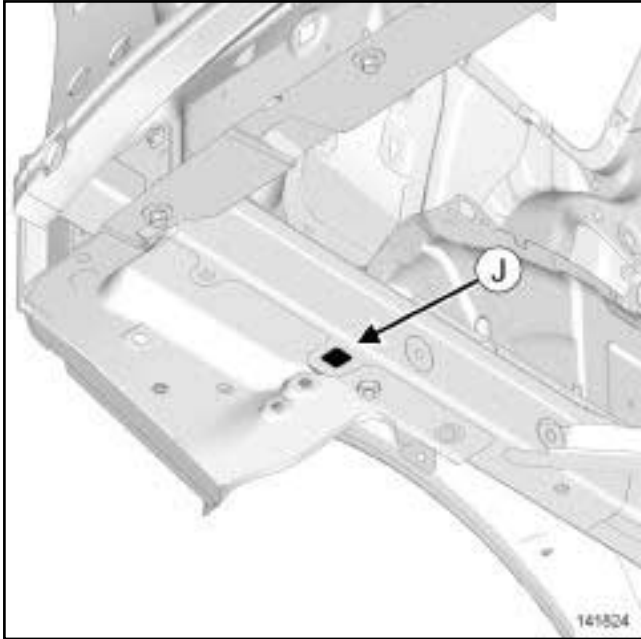


141832

Damaged vehicle: Collision fault finding

J95

Points Jg and Jd (side member rear leader pin)

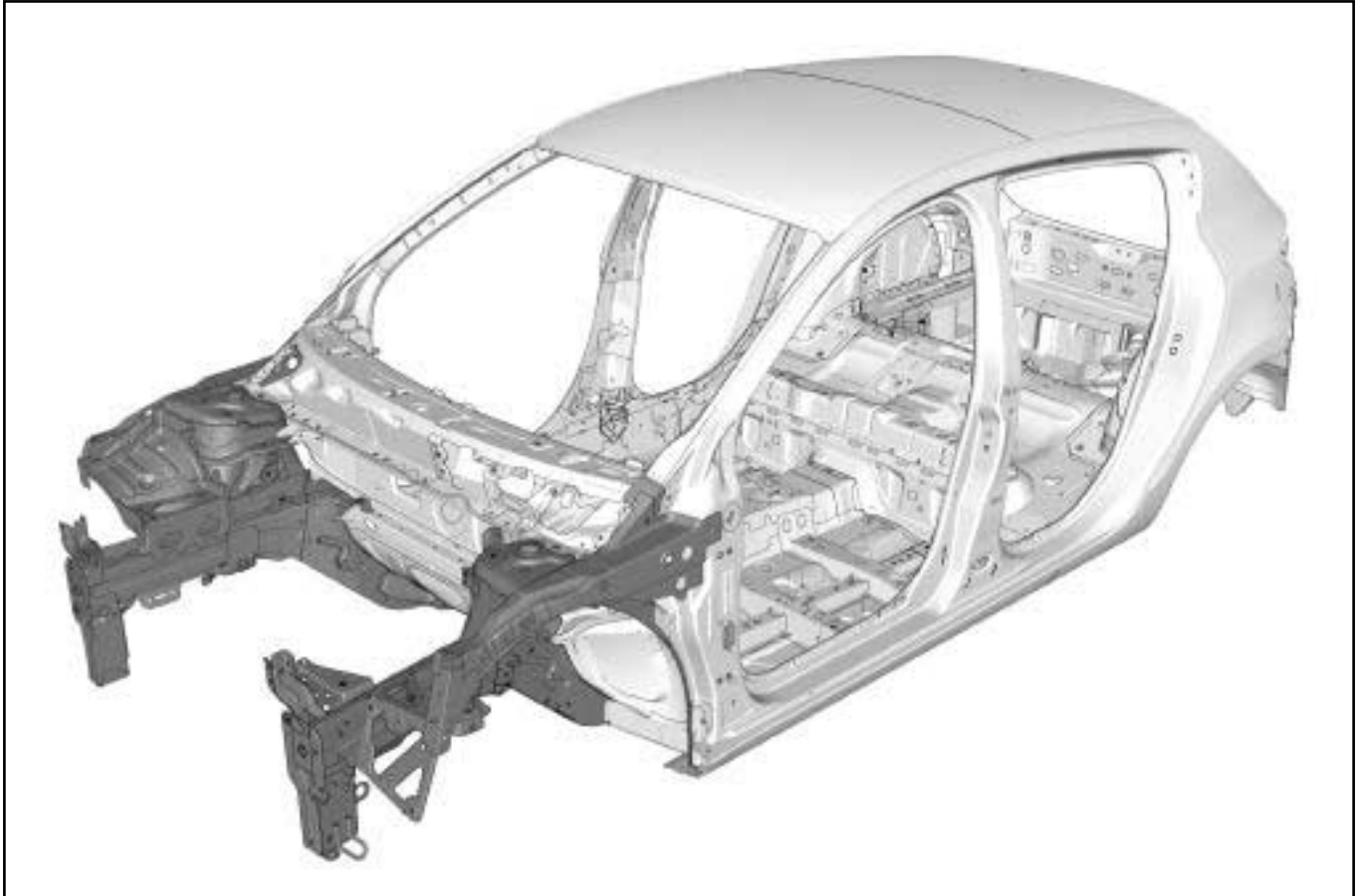


141824



Vehicle damaged at front: Description

B95 or D95

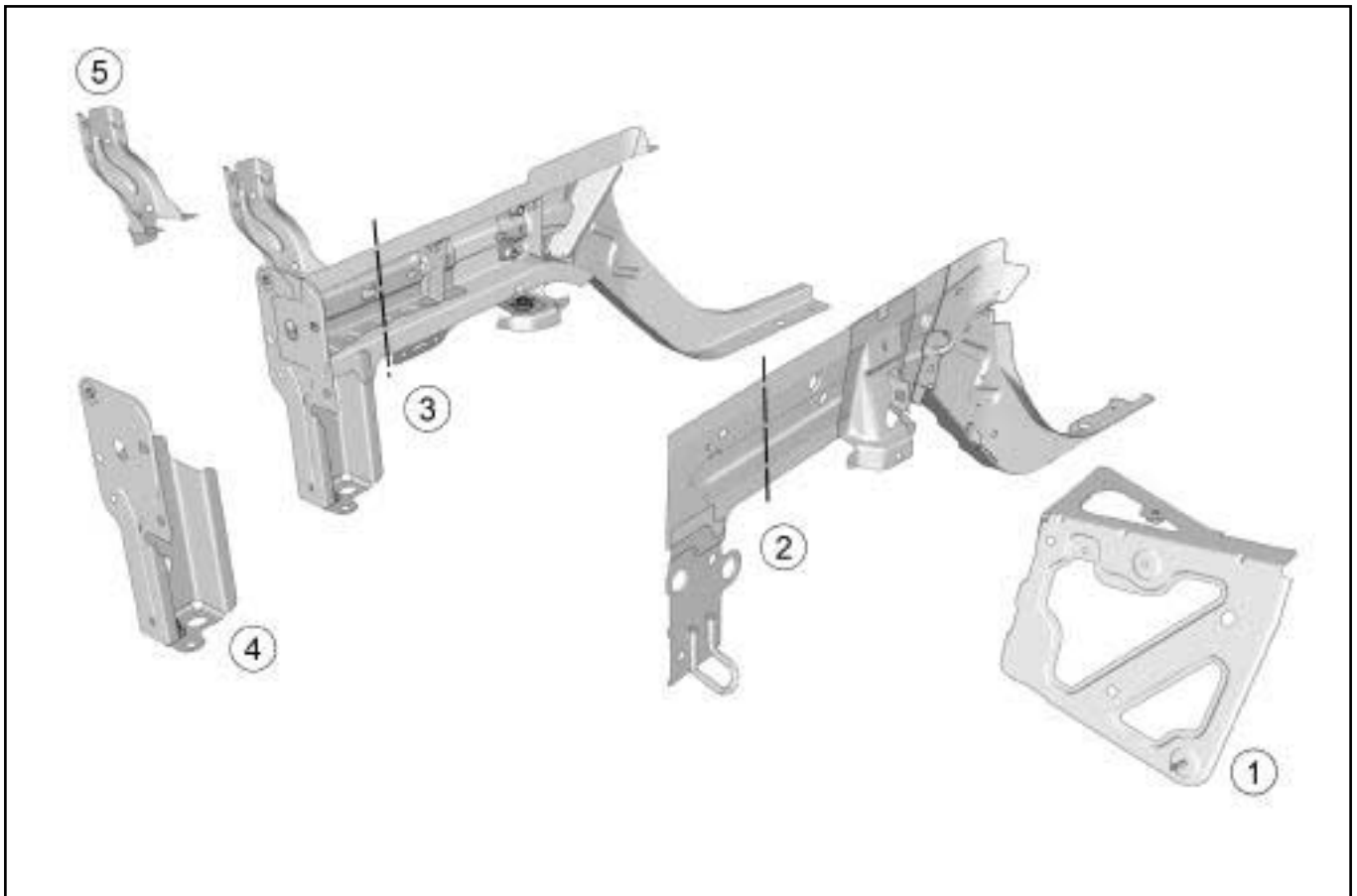


136892

Vehicle damaged at front: Description

B95 or D95

1st degree



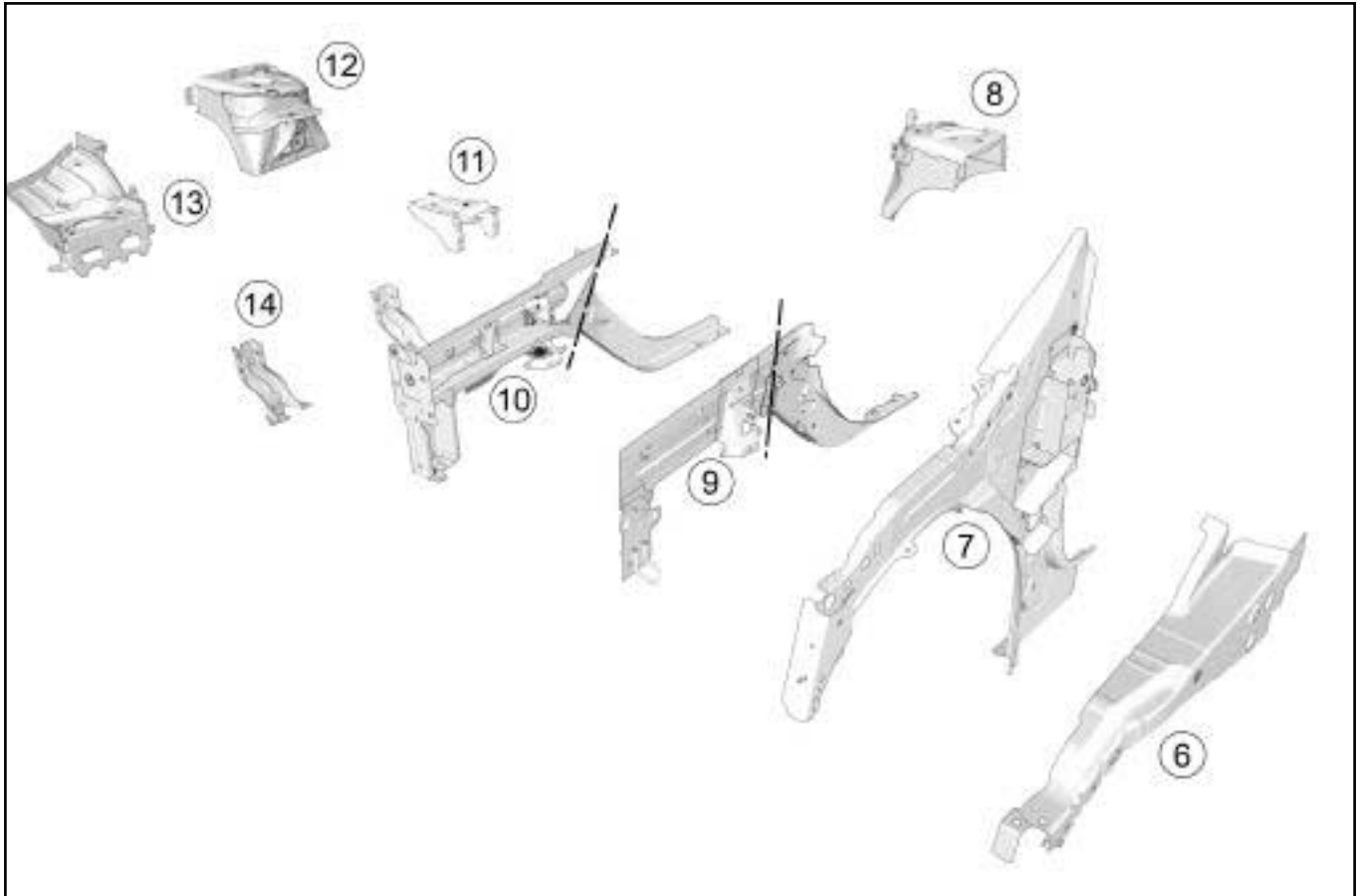
136893

- (1) front end side cross member,
- (2) side member closure panel (partial front),
- (3) front side member (partial front),
- (4) radiator cross member mounting,
- (5) front end panel side support.

Vehicle damaged at front: Description

B95 or D95

2nd degree



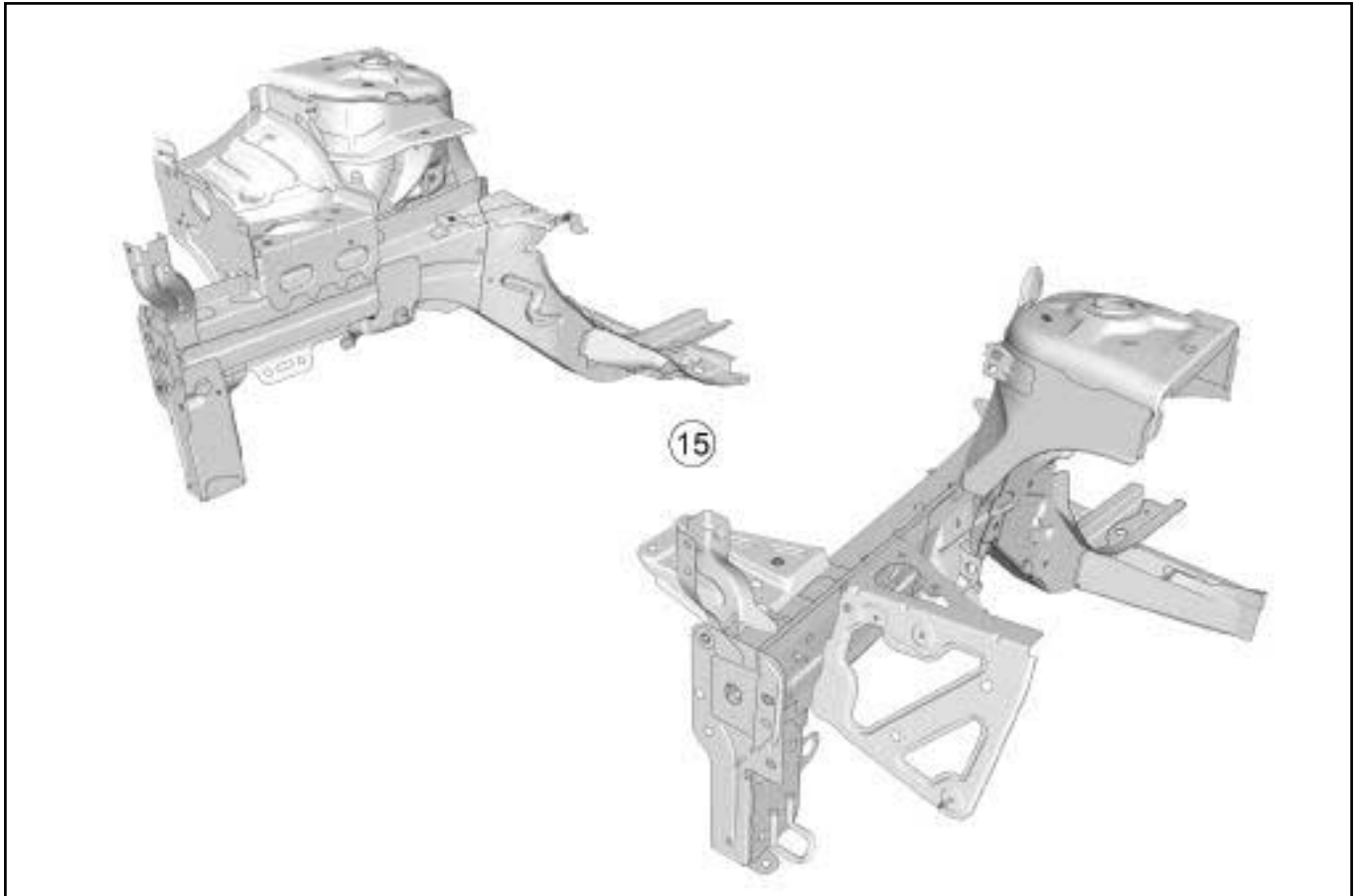
137228

- (6) scuttle side panel upper reinforcement,
- (7) scuttle side panel,
- (8) front left-hand wheel arch,
- (9) front side member closure panel,
- (10) front side member,
- (11) battery tray bracket,
- (12) front right-hand wheel arch,
- (13) engine stand,
- (14) front end panel side support.

Vehicle damaged at front: Description

B95 or D95

3rd degree



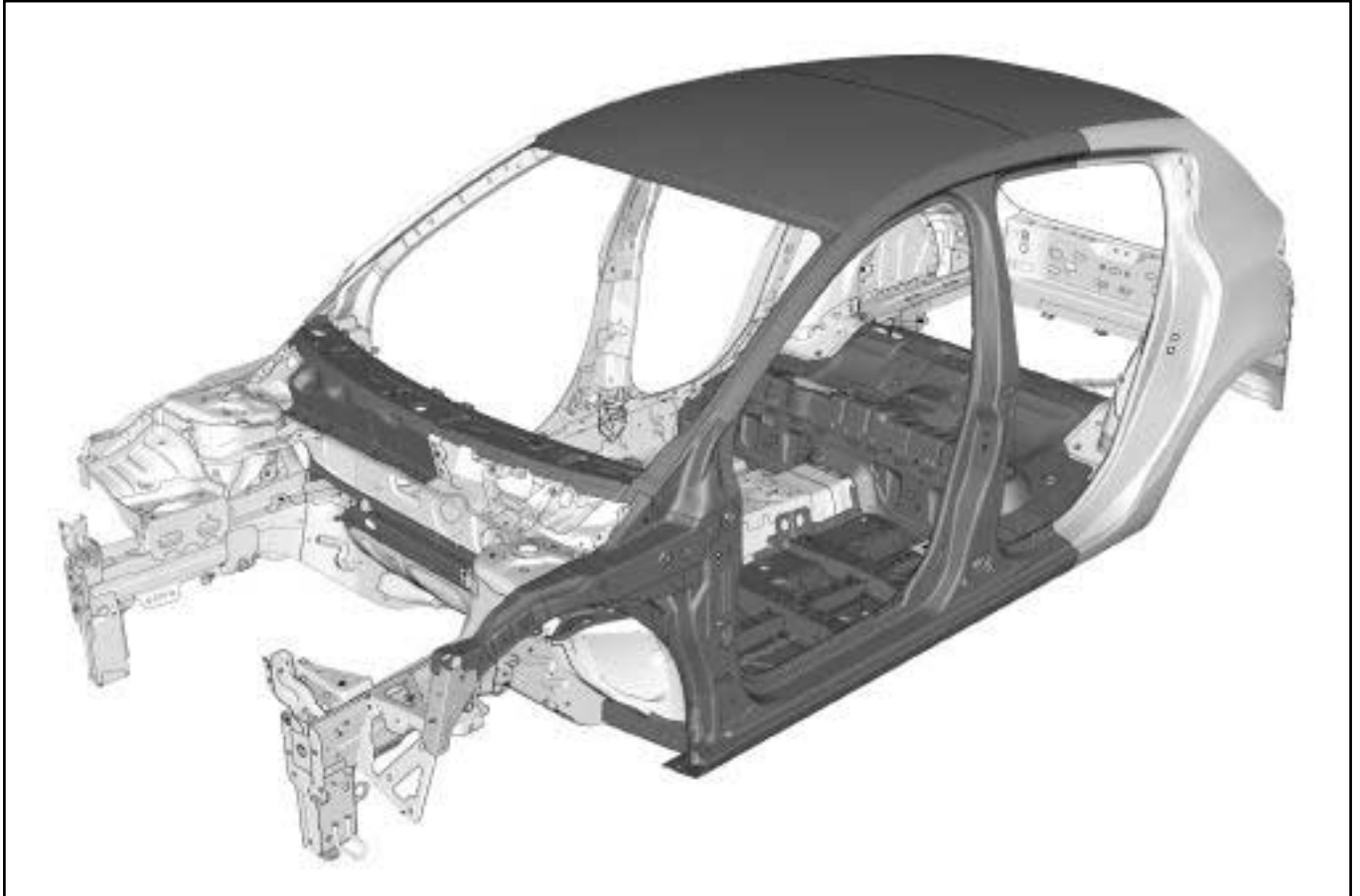
136894

- (15) front half unit.

Vehicle damaged at side: Description

B95 or D95

B95

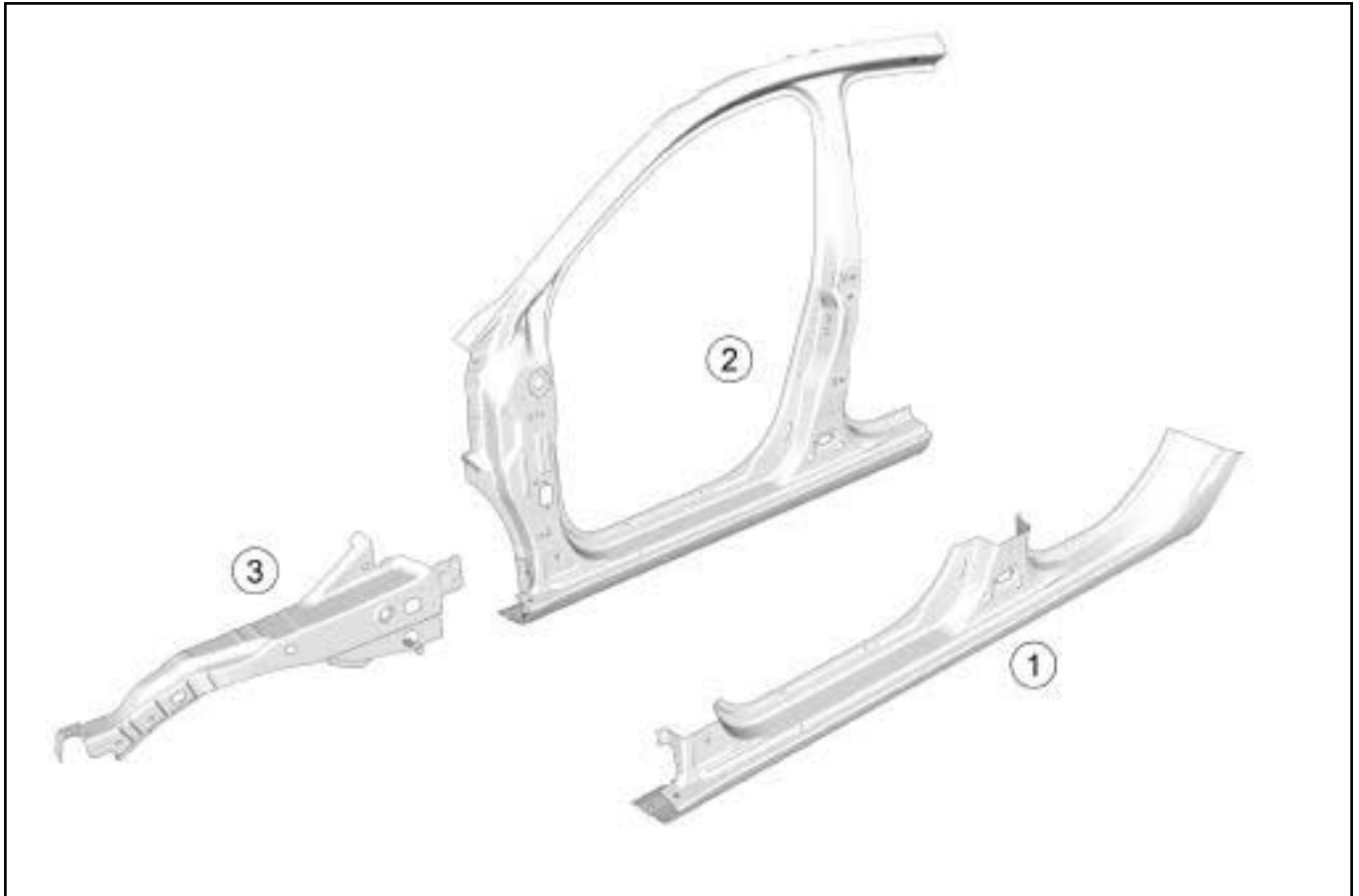


136886

Vehicle damaged at side: Description

B95 or D95

1st degree



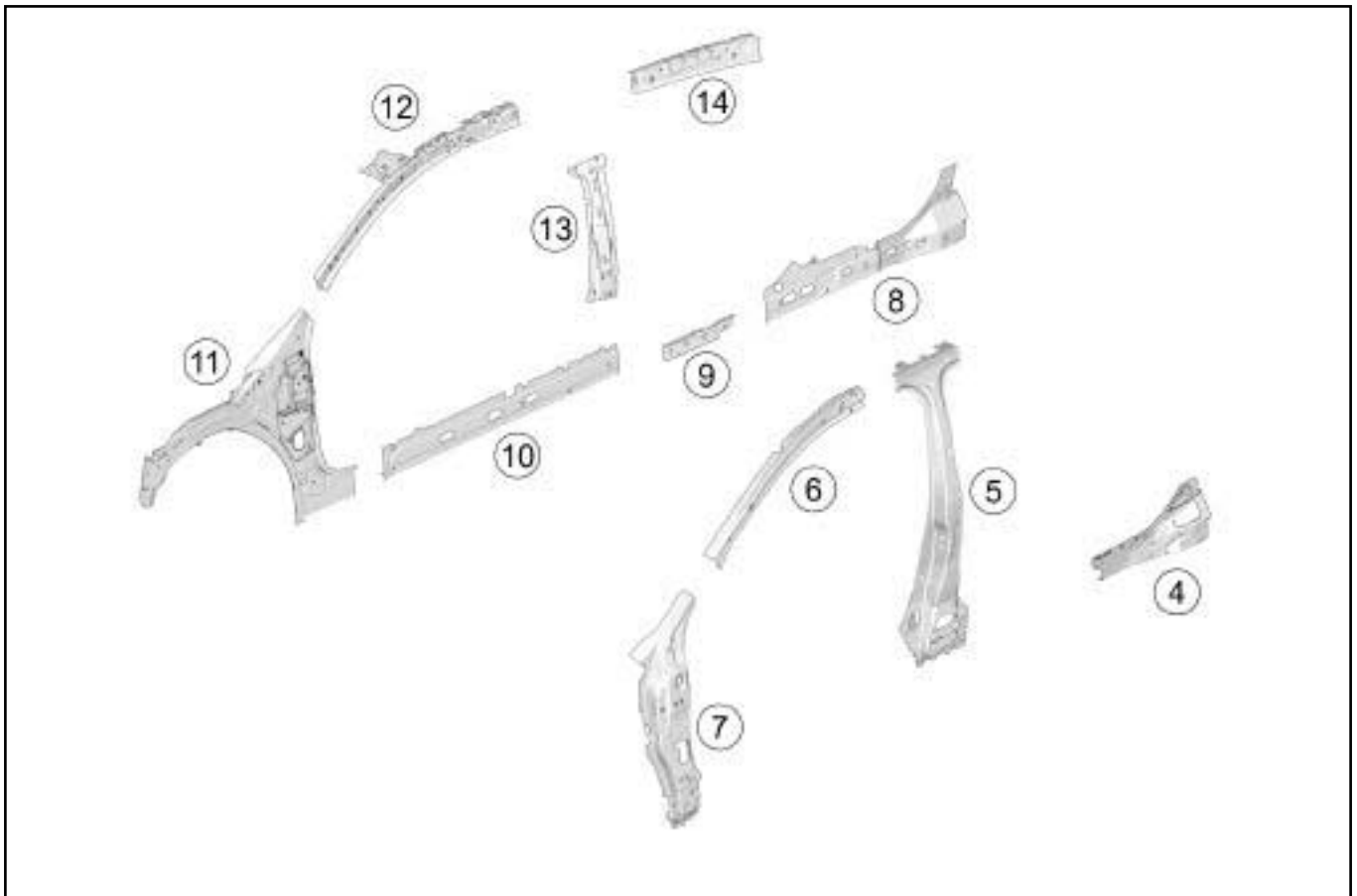
137229

- sill panel (1) ,
- (2) body side, front section,
- scuttle side panel upper reinforcement.

Vehicle damaged at side: Description

B95 or D95

2nd degree



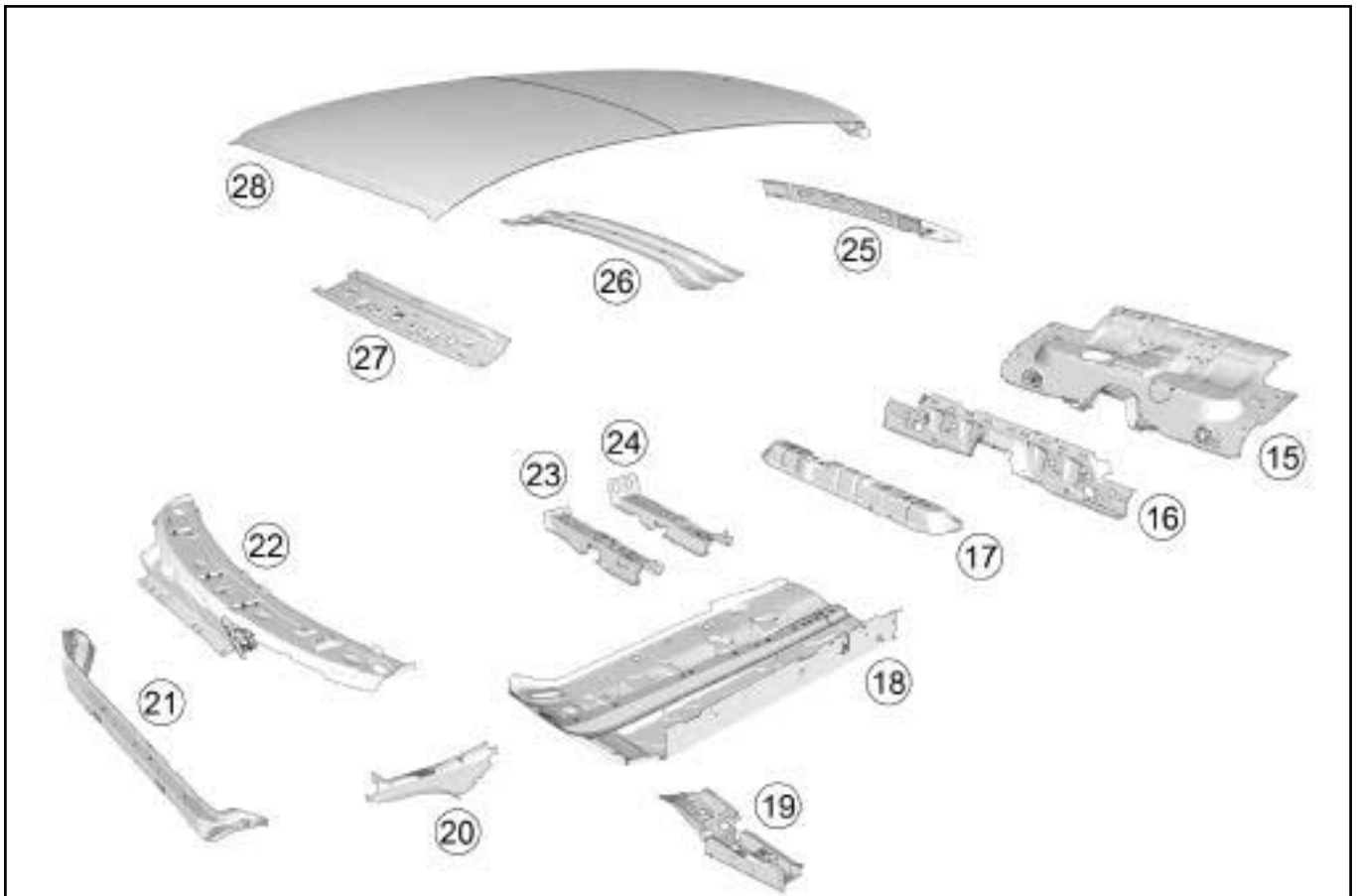
136887

- (4) sill panel closure panel, rear section,
- (5) B-pillar reinforcement,
- (6) windscreen pillar lining reinforcement,
- (7) A-pillar reinforcement,
- (8) rear sill panel reinforcement,
- (9) sill panel stiffener,
- (10) sill panel reinforcement, front section,
- (11) scuttle side panel,
- (12) windscreen pillar lining,
- (13) B-pillar upper lining,
- (14) rear roof drip moulding lining.

Vehicle damaged at side: Description

B95 or D95

3rd degree



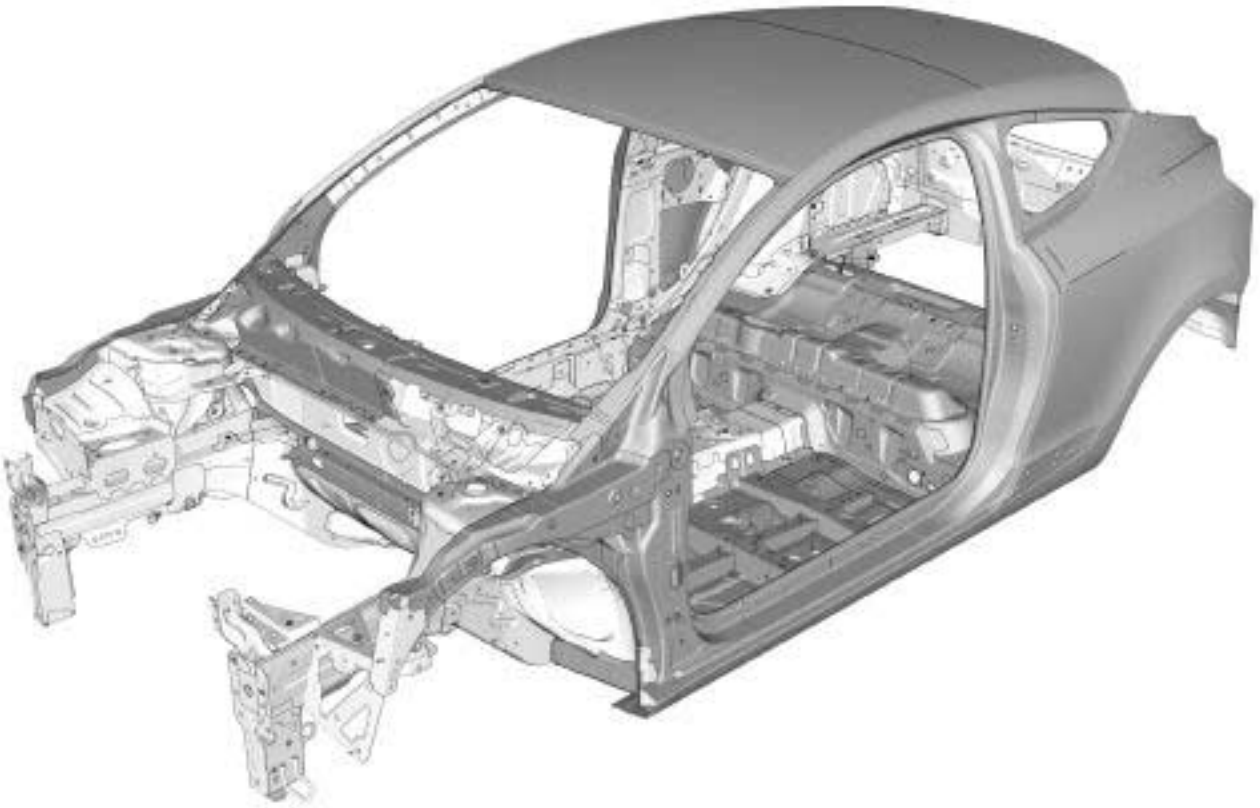
136888

- (15) rear floor, rear section,
- (16) rear floor front cross member reinforcement,
- (17) rear passenger retaining cross member,
- (18) centre floor, side section,
- (19) centre floor front side cross member,
- bulkhead side reinforcement,
- (21) bulkhead lower cross member,
- (22) windscreen aperture lower cross member,
- (23) front cross member under front seat,
- (24) rear cross member under front seat,
- (25) roof rear cross member,
- (26) roof middle cross member,
- (27) roof front cross member,
- (28) roof.

Vehicle damaged at side: Description

B95 or D95

D95

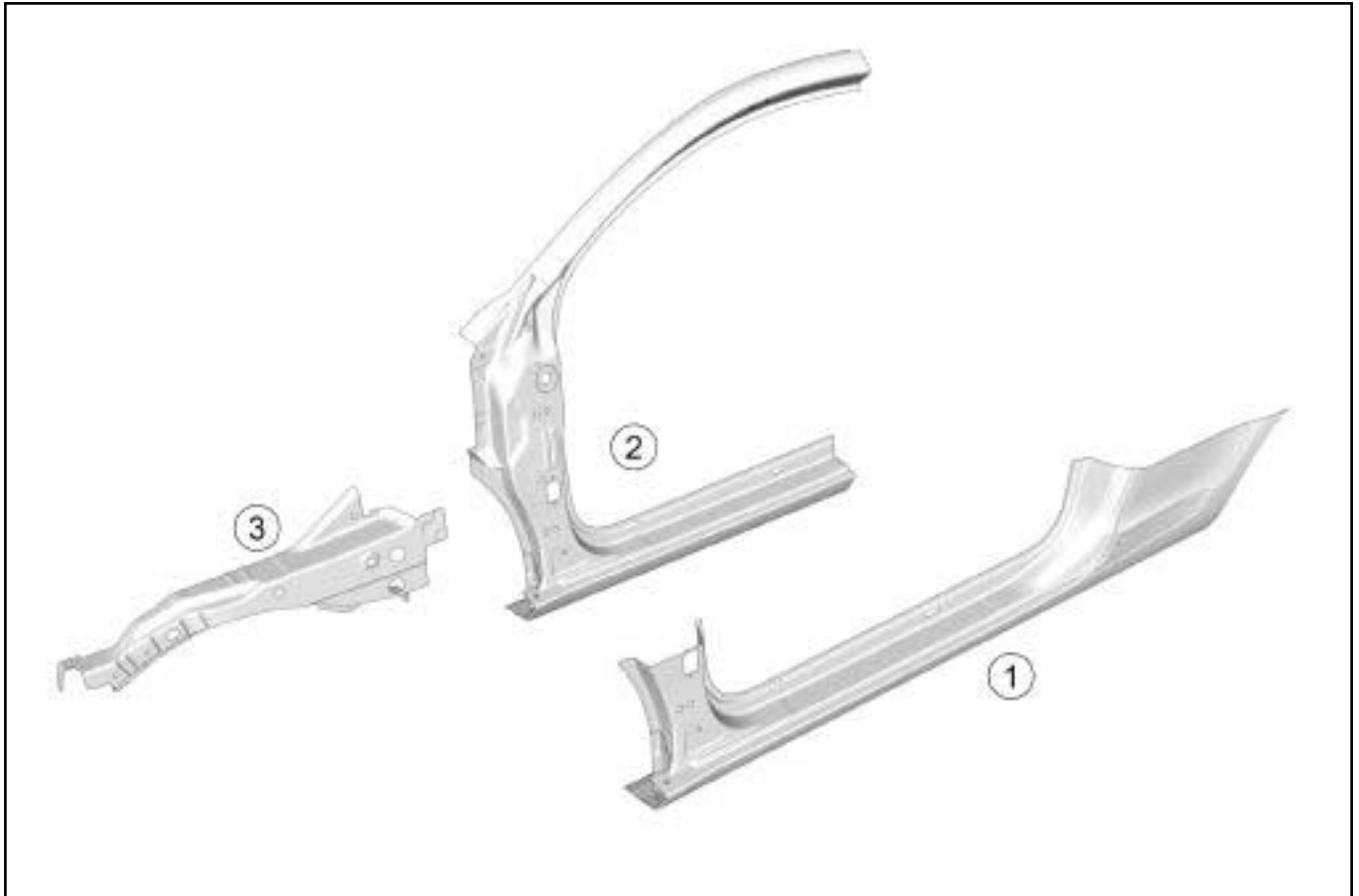


136889

Vehicle damaged at side: Description

B95 or D95

1st degree



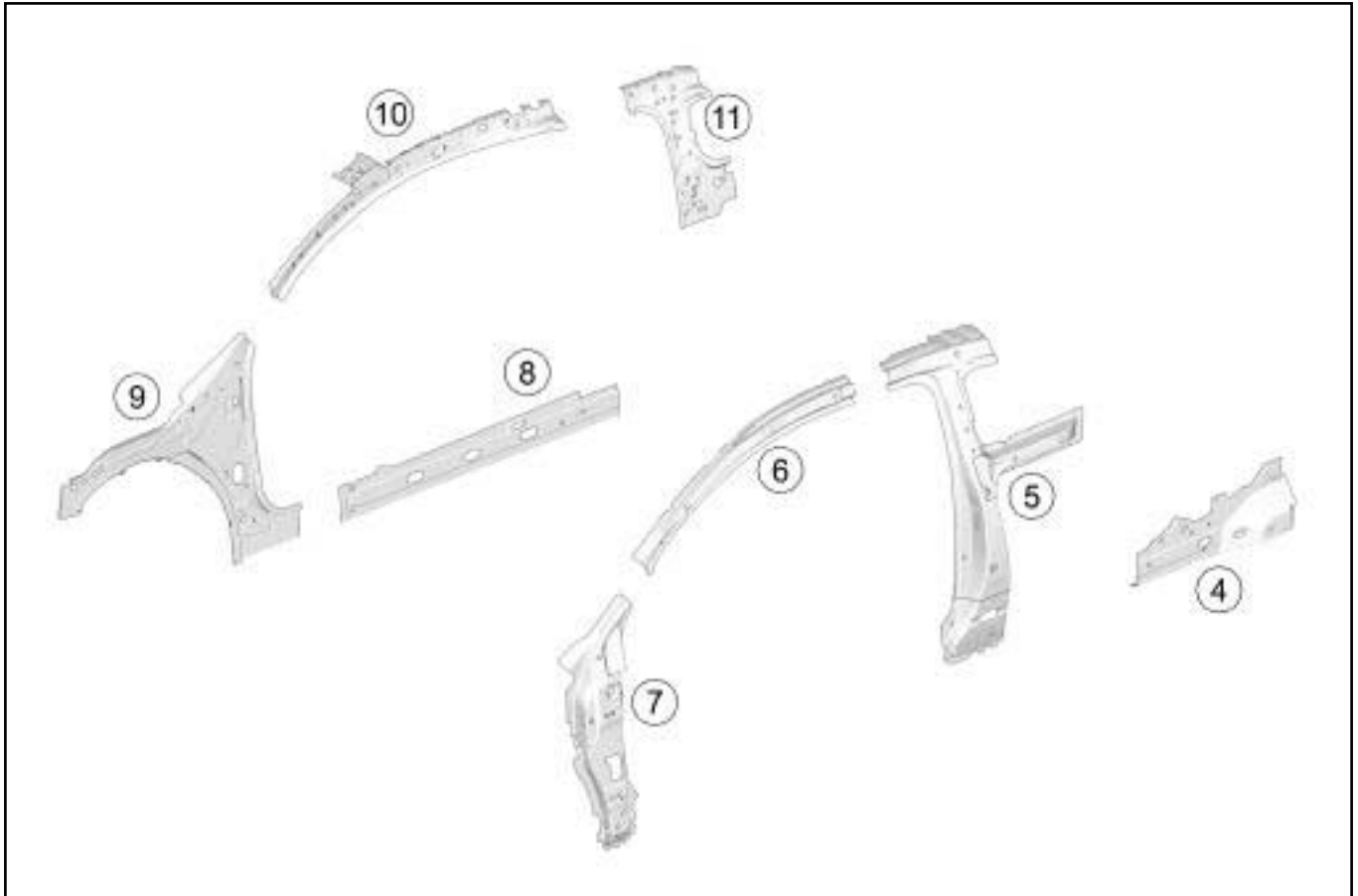
137231

- sill panel (1) ,
- (2) A-pillar,
- scuttle side panel upper reinforcement.

Vehicle damaged at side: Description

B95 or D95

2nd degree



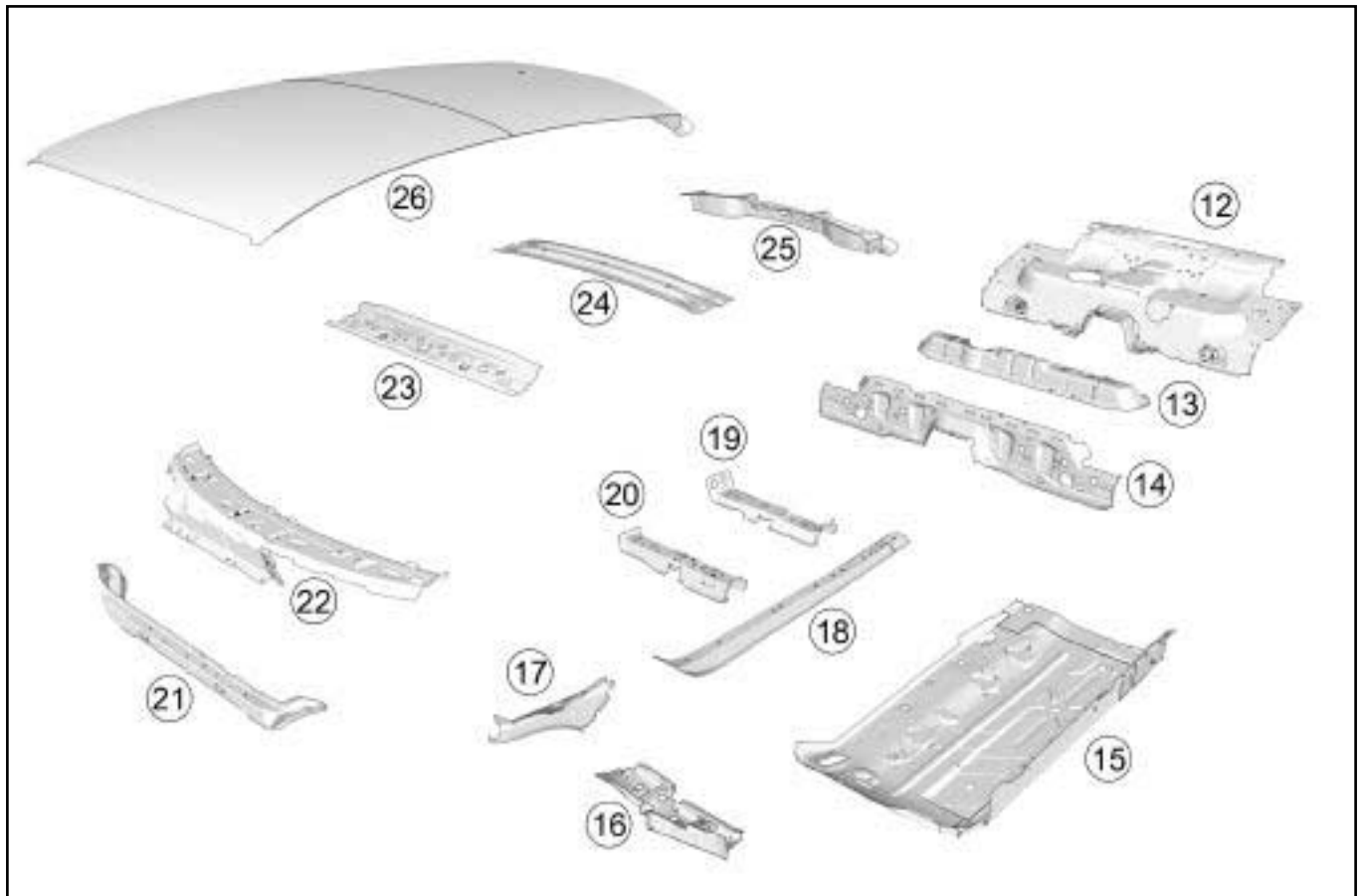
136890

- (4) sill panel closure panel, rear section,
- (5) B-pillar reinforcement,
- (6) windscreen pillar lining reinforcement,
- (7) A-pillar reinforcement,
- (8) sill panel reinforcement, front section,
- (9) scuttle side panel,
- (10) windscreen pillar lining,
- B-pillar upper lining (11) .

Vehicle damaged at side: Description

B95 or D95

3rd degree



136891

- (12) rear floor, front section,
- (13) rear passenger retaining cross member,
- (14) rear floor front cross member reinforcement,
- (15) centre floor, side section,
- (16) centre floor front side cross member,
- bulkhead side reinforcement,
- (18) centre side member,
- (19) rear cross member under front seat,
- (20) front cross member under front seat,
- (21) bulkhead lower cross member,
- (22) windscreen aperture lower cross member
- (23) roof front cross member,
- (24) roof middle cross member,
- (25) roof rear cross member,
- (26) roof.

Vehicle damaged at rear: Description

B95 or D95 or K95

B95

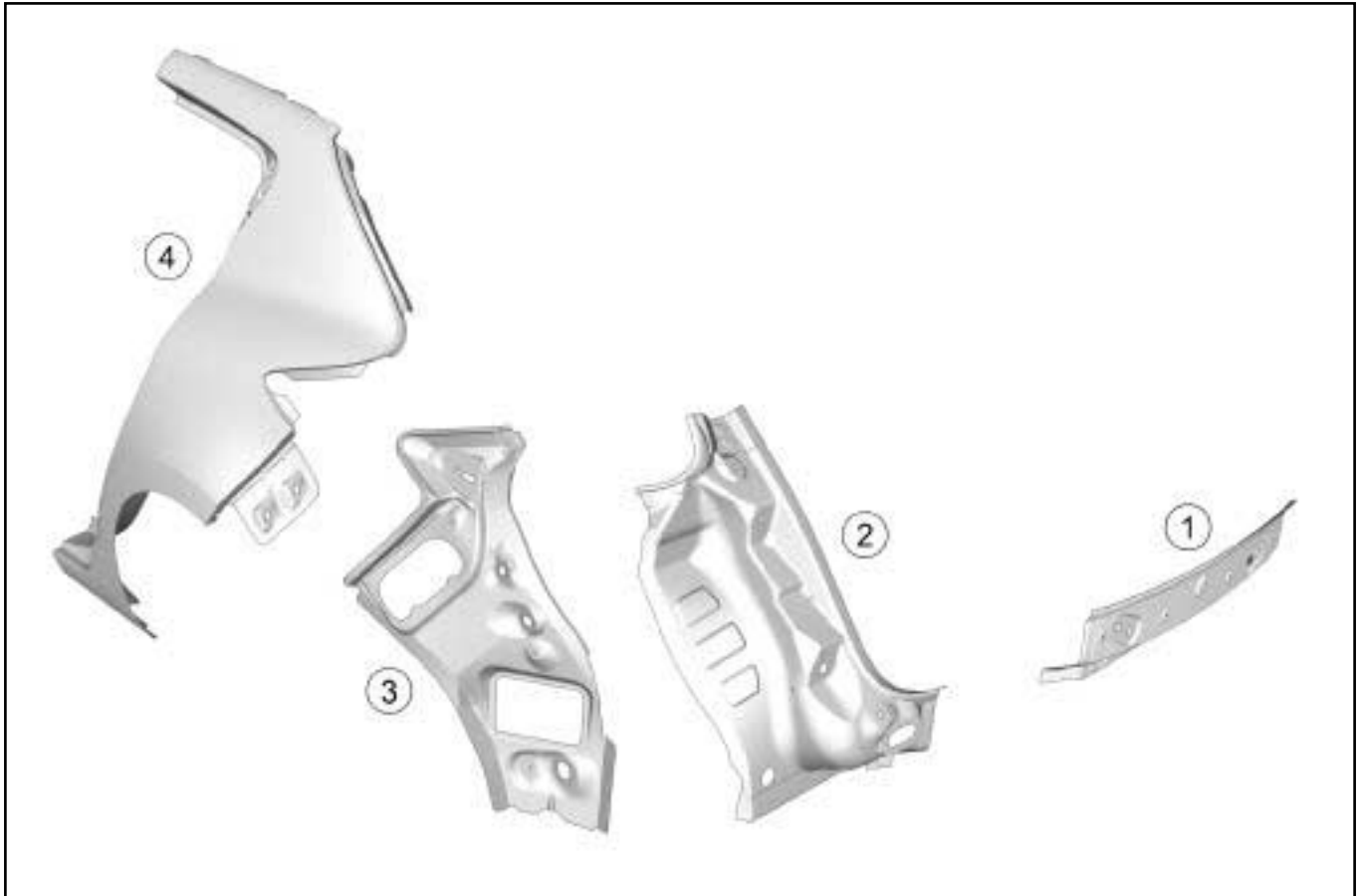


136895

Vehicle damaged at rear: Description

B95 or D95 or K95

1st degree



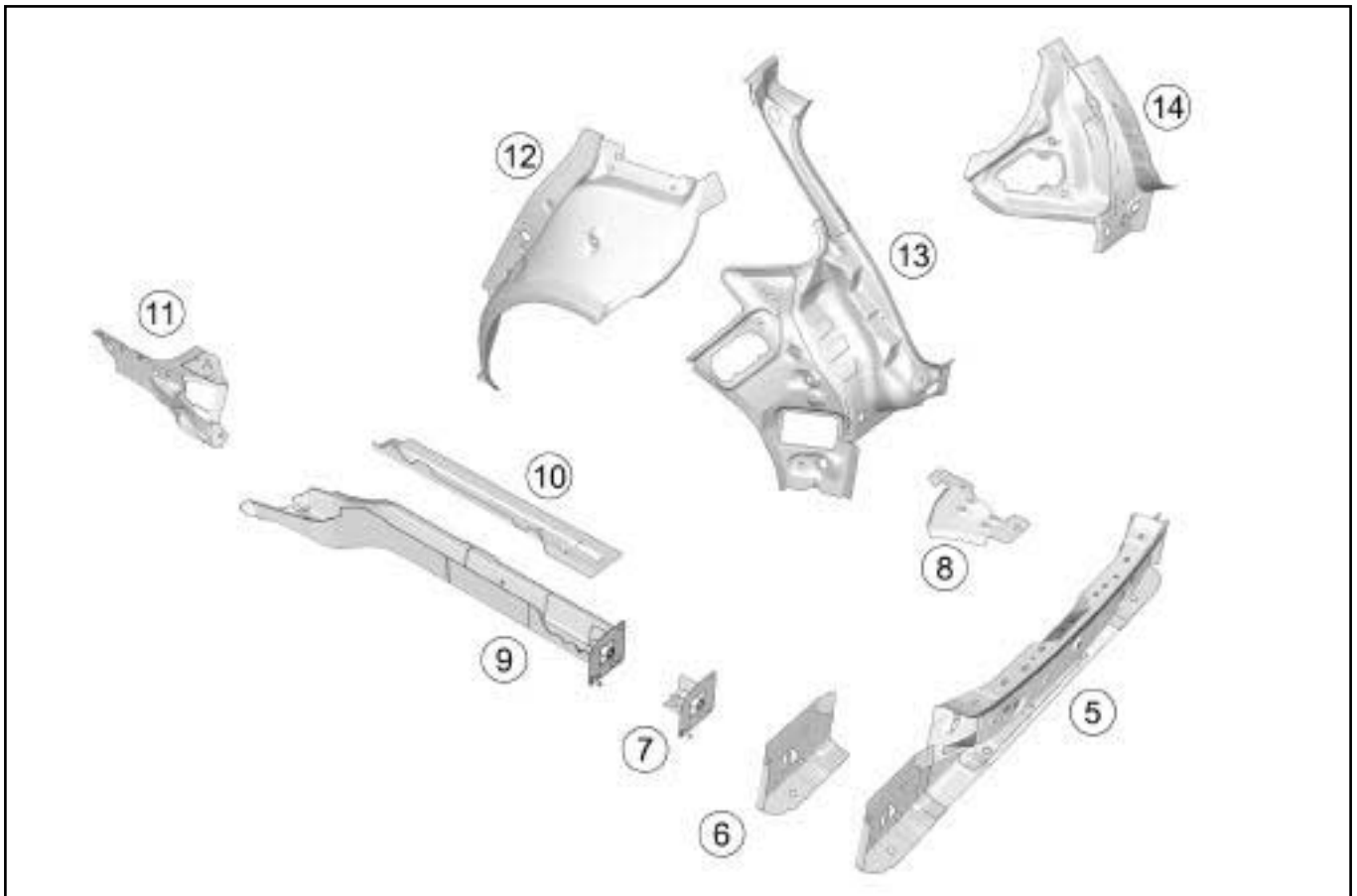
136896

- (1) rear end panel,
- (2) rear lights support,
- (3) rear wing panel extension,
- the rear wing panel (4) .

Vehicle damaged at rear: Description

B95 or D95 or K95

2nd degree



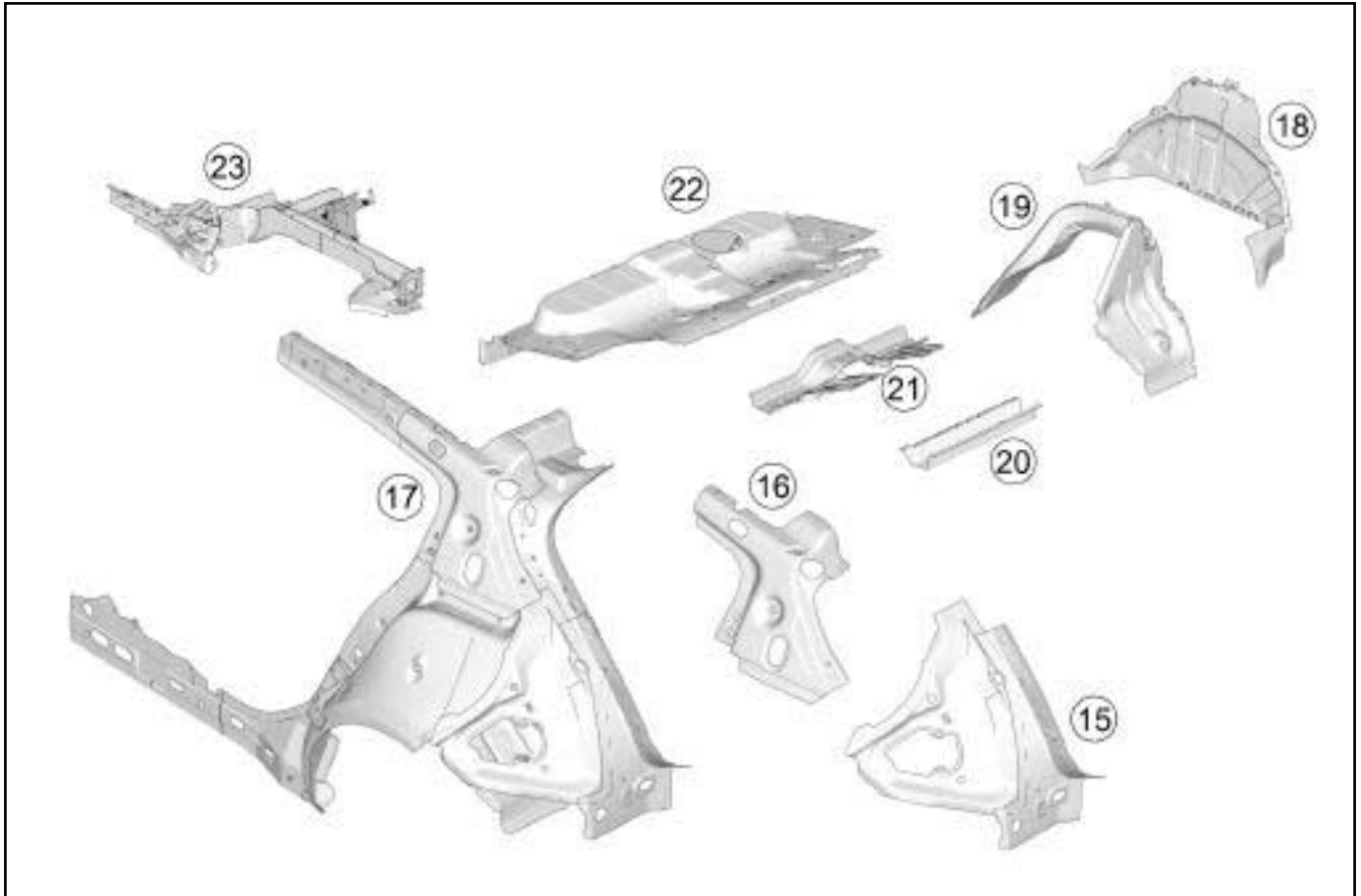
136897

- (5) rear end panel assembly,
- (6) rear end panel side lining,
- (7) rear impact cross member mounting reinforcement,
- (8) rear end lower cross member, side section,
- (9) rear side member (rear partial),
- (10) rear side member closure panel,
- (11) sill panel closure panel, rear section,
- (12) outer rear wheel arch,
- (13) rear wing panel rain channel,
- (14) light mounting lining.

Vehicle damaged at rear: Description

B95 or D95 or K95

3rd degree



136898

- (15) light mounting lining,
- (16) rear roof drip moulding reinforcement,
- (17) body side rear lining,
- (18) inner rear wheel arch,
- (19) rear wheel arch closure panel,
- (20) rear floor centre cross member,
- (21) rear floor front cross member, centre section,
- (22) rear floor, front section,
- rear side member assembly (23) .

Vehicle damaged at rear: Description

B95 or D95 or K95

D95

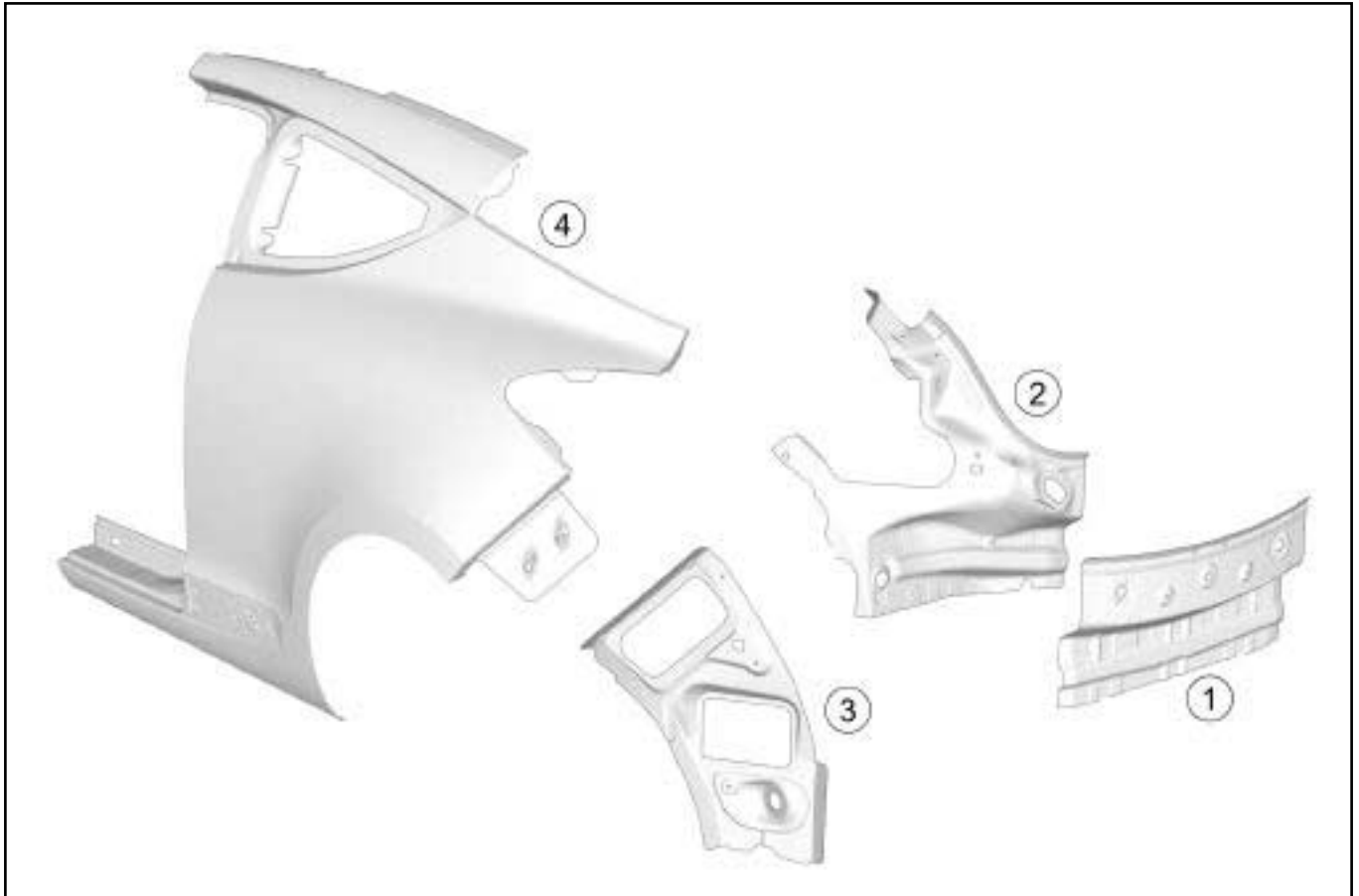


136899

Vehicle damaged at rear: Description

B95 or D95 or K95

1st degree



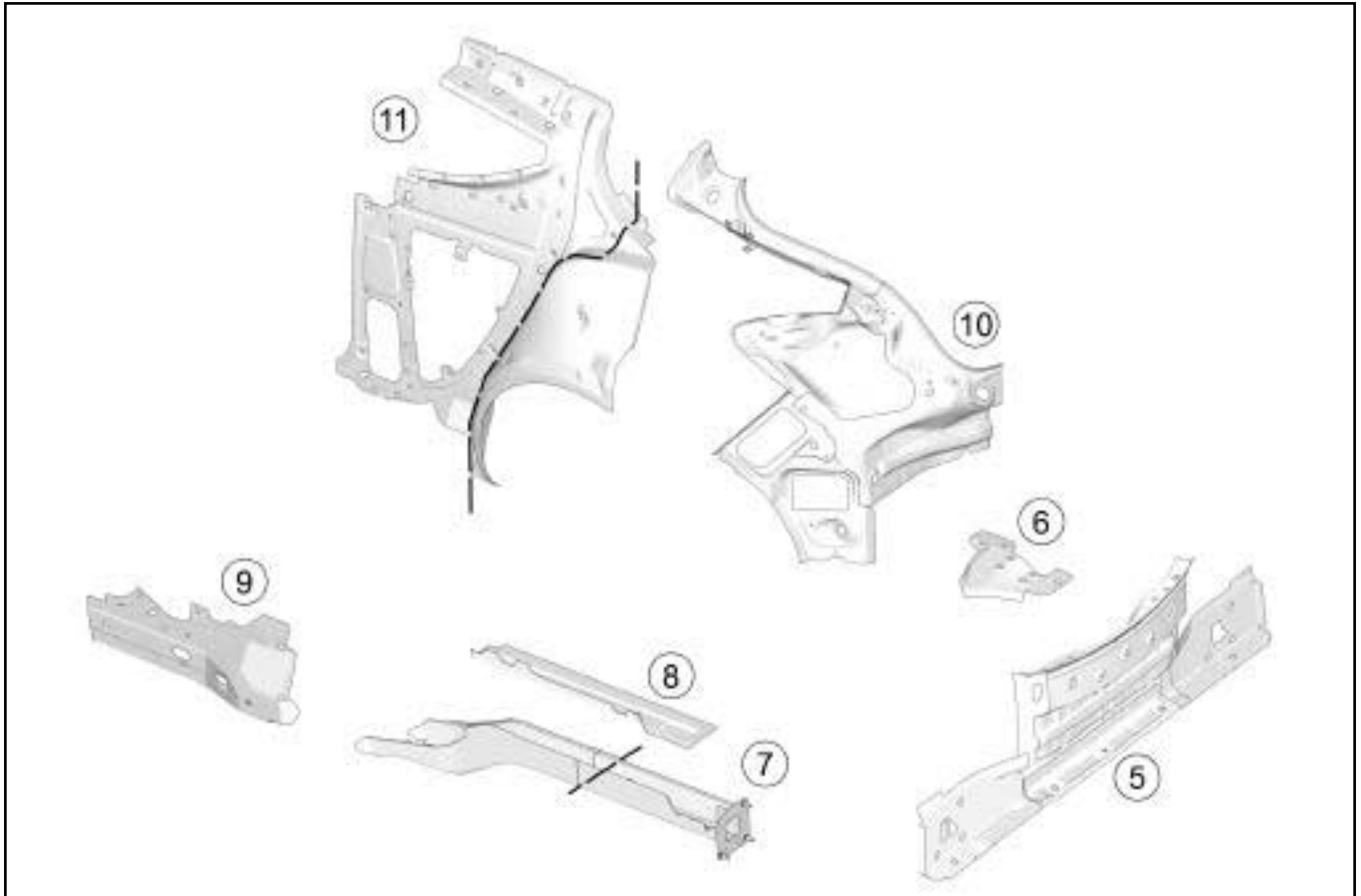
136900

- (1) rear end panel,
- (2) lights support,
- (3) rear wing panel extension,
- (4) rear wing panel

Vehicle damaged at rear: Description

B95 or D95 or K95

2nd degree



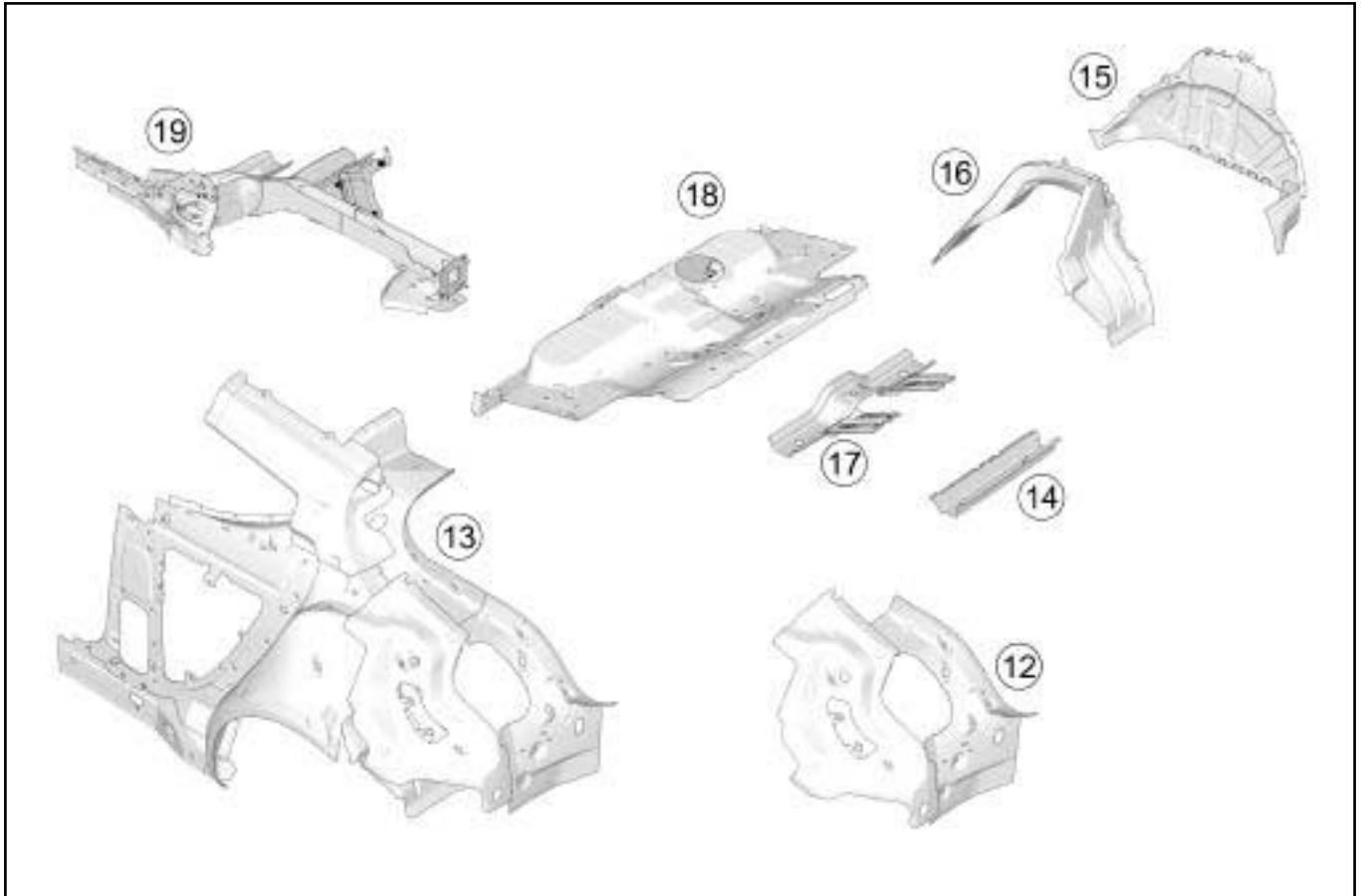
137230

- (5) rear end panel assembly,
- (6) rear end lower cross member, side section,
- (7) rear side member (rear partial),
- (8) rear side member closure panel,
- (9) sill panel closure panel, rear section,
- (10) rear wing panel rain channel,
- (11) outer rear wheel arch.

Vehicle damaged at rear: Description

B95 or D95 or K95

3rd degree



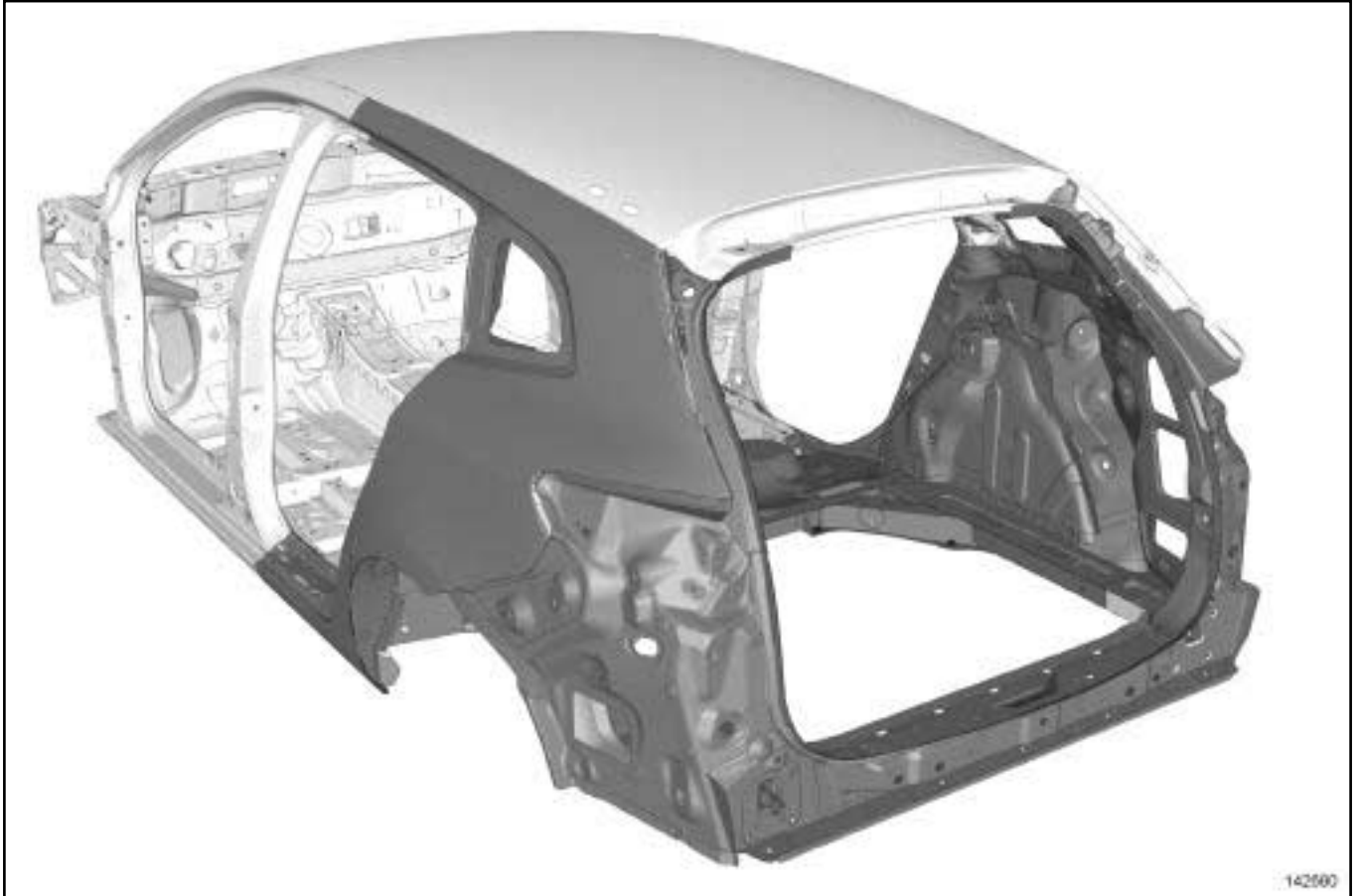
136901

- (12) light mounting lining,
- (13) body side rear lining,
- (14) rear floor centre cross member,
- (15) inner rear wheel arch,
- (16) rear wheel arch closure panel,
- (17) rear floor front cross member, centre section,
- (18) rear floor, front section,
- rear side member assembly (19) .

Vehicle damaged at rear: Description

B95 or D95 or K95

K95



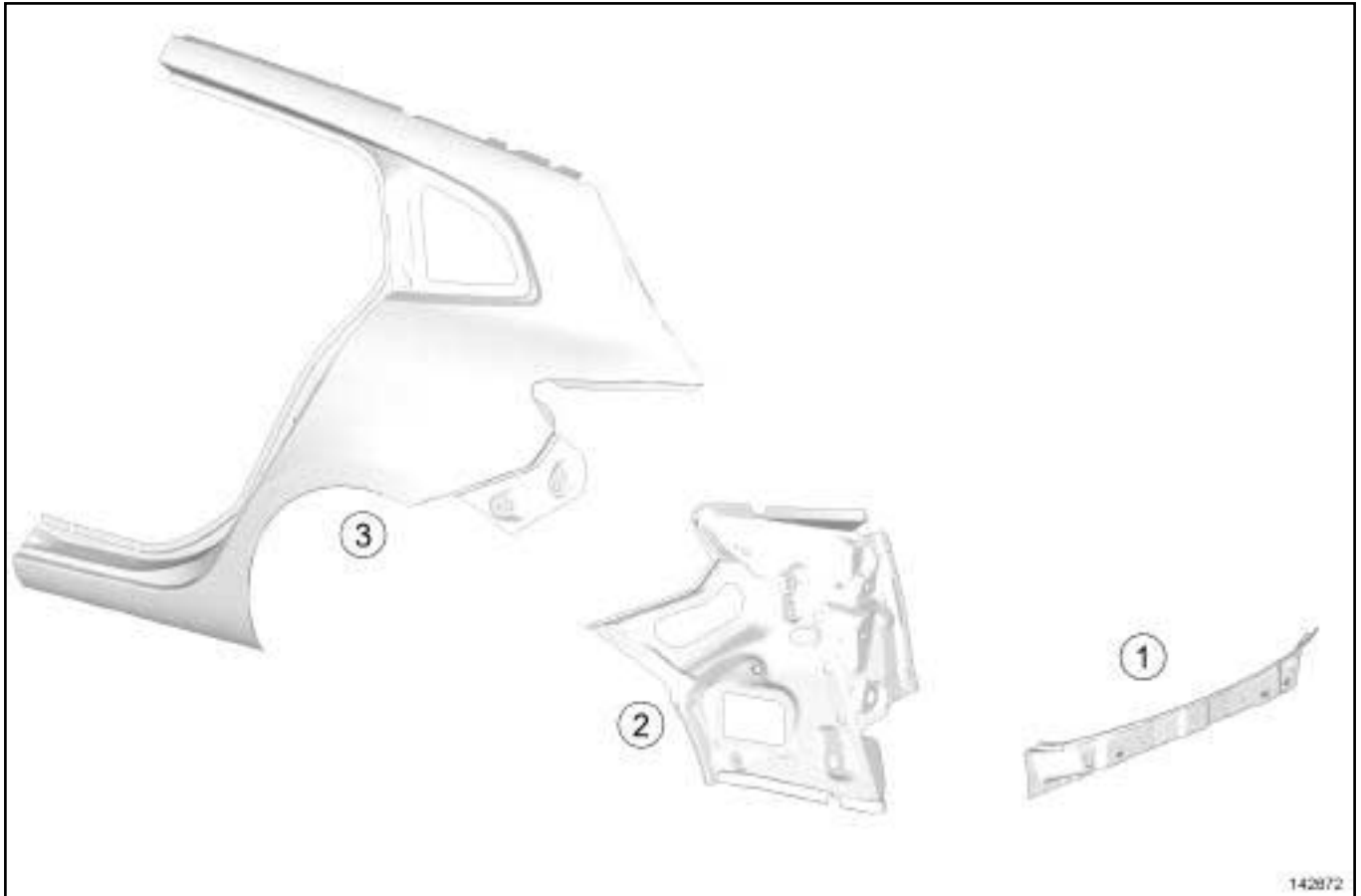
142680

142680

Vehicle damaged at rear: Description

B95 or D95 or K95

first degree



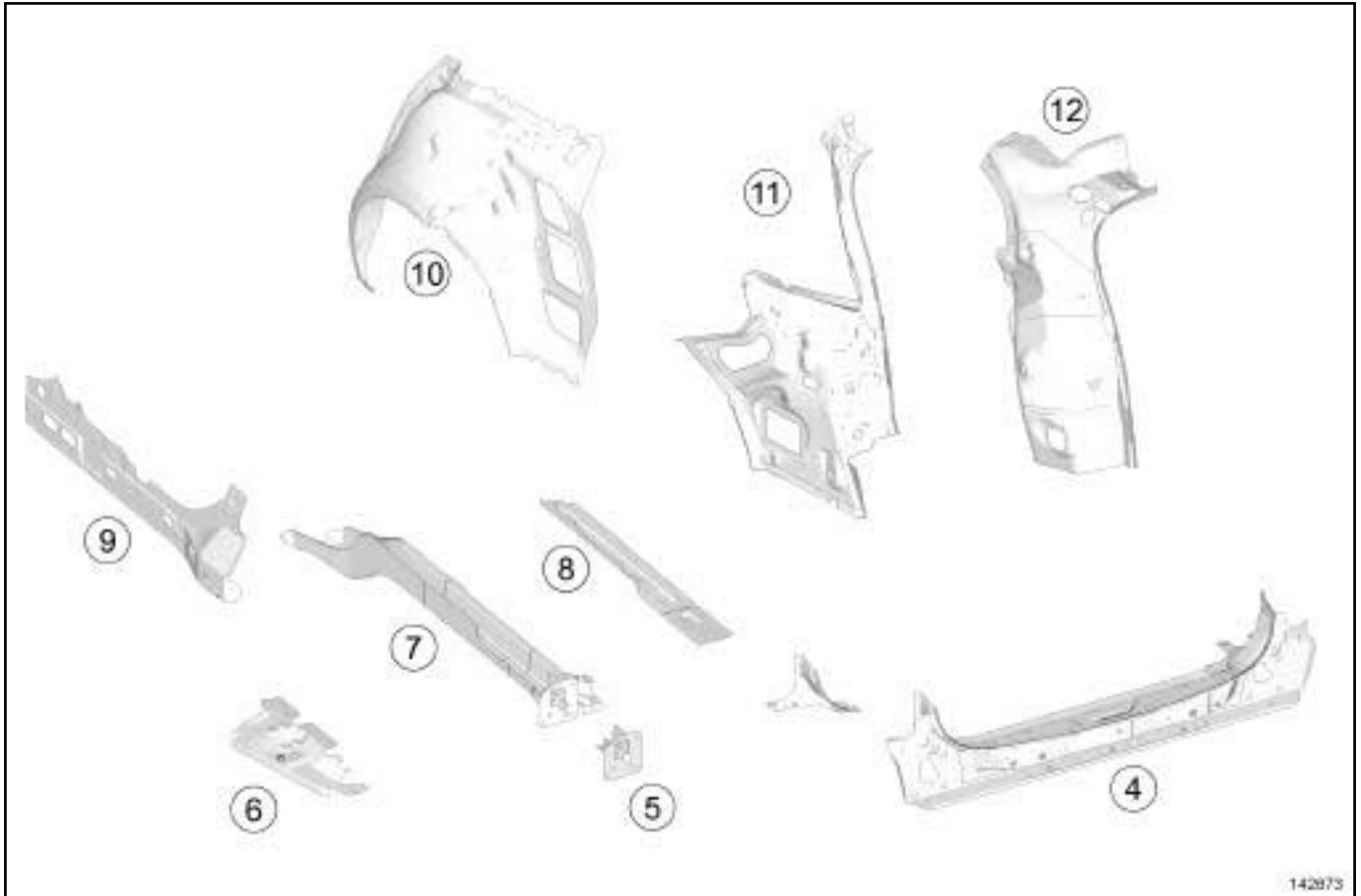
142672

- (1) rear end panel,
- (2) rear lights support,
- (3) rear wing panel.

Vehicle damaged at rear: Description

B95 or D95 or K95

second degree



142673

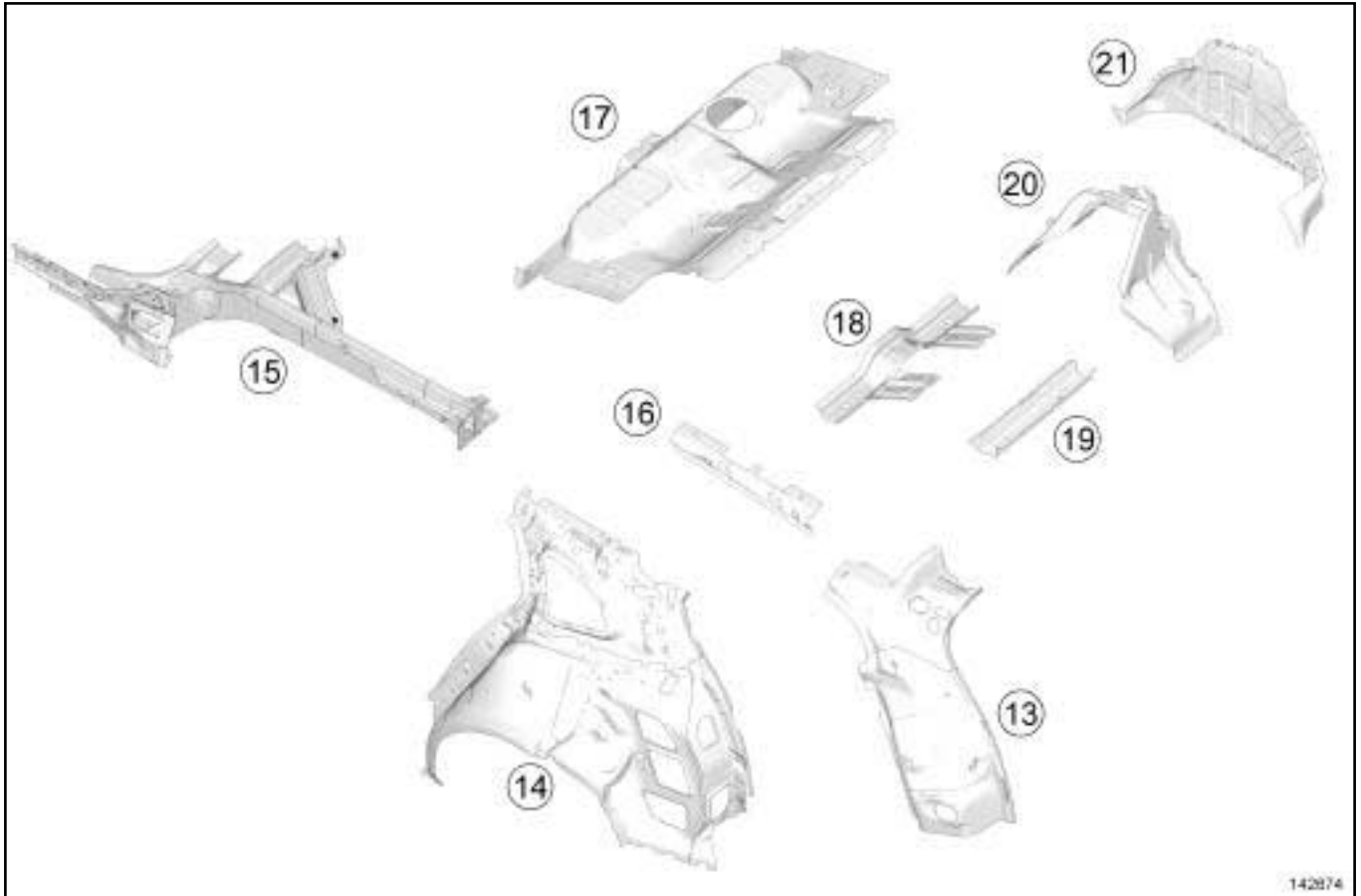
142673

- (4) rear end panel assembly,
- (5) rear impact cross member mounting reinforcement,
- (6) rear end lower cross member, side section,
- (7) rear side member (rear partial),
- (8) rear side member closure panel,
- (9) sill panel closure panel, rear section,
- (10) outer rear wheel arch,
- (11) rear wing panel rain channel,
- (12) light mounting lining.

Vehicle damaged at rear: Description

B95 or D95 or K95

third degree



142674

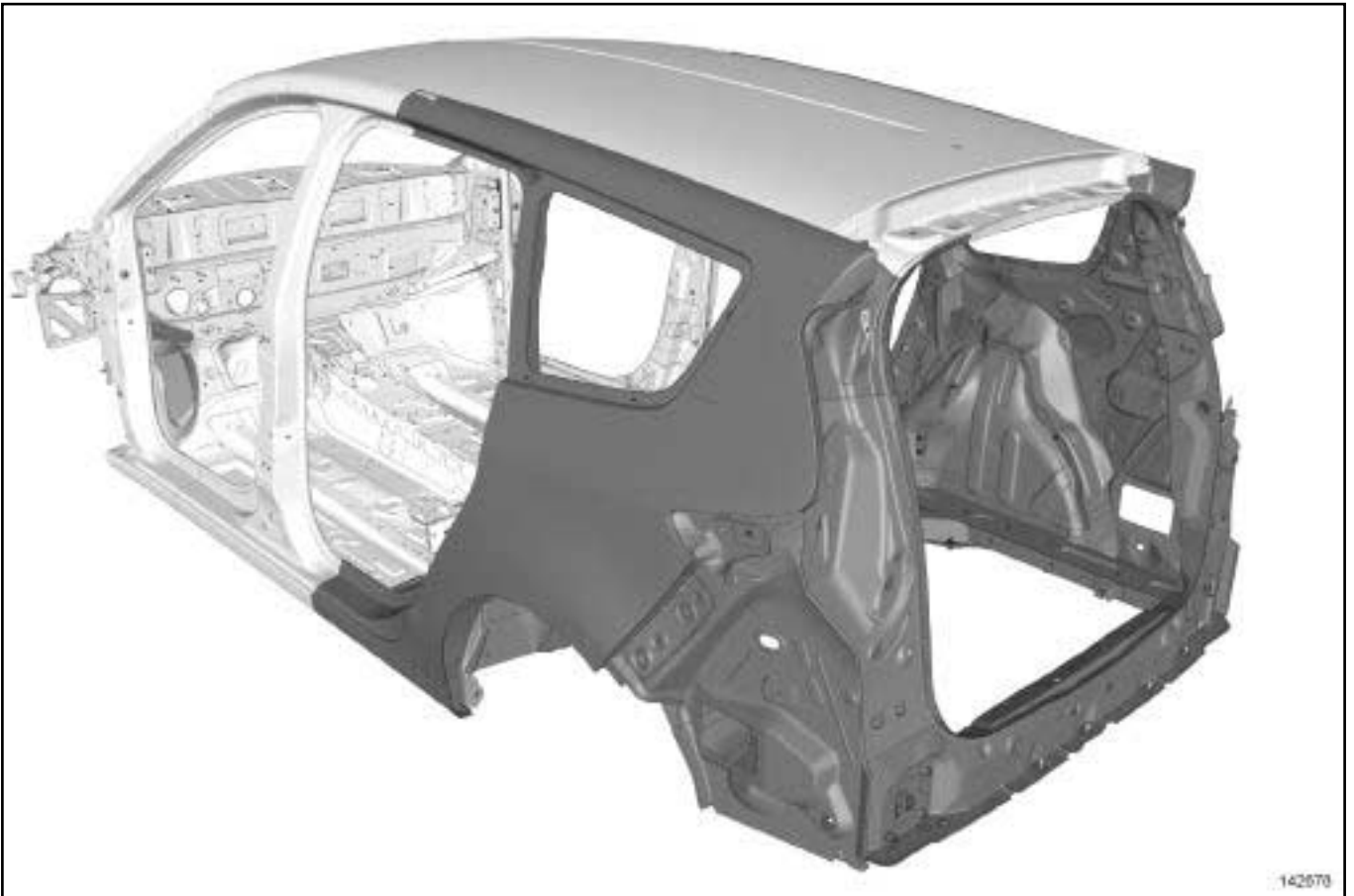
142674

- (13) light mounting lining,
- (14) quarter panel lining,
- (15) rear side member assembly,
- (16) rear roof drip moulding reinforcement,
- (17) rear floor, front section,
- (18) rear floor front cross member, centre section,
- (19) rear floor centre cross member,
- (20) rear wheel arch closure panel,
- (21) inner rear wheel arch.

Vehicle damaged at rear: Description

J95

LONG CHASSIS



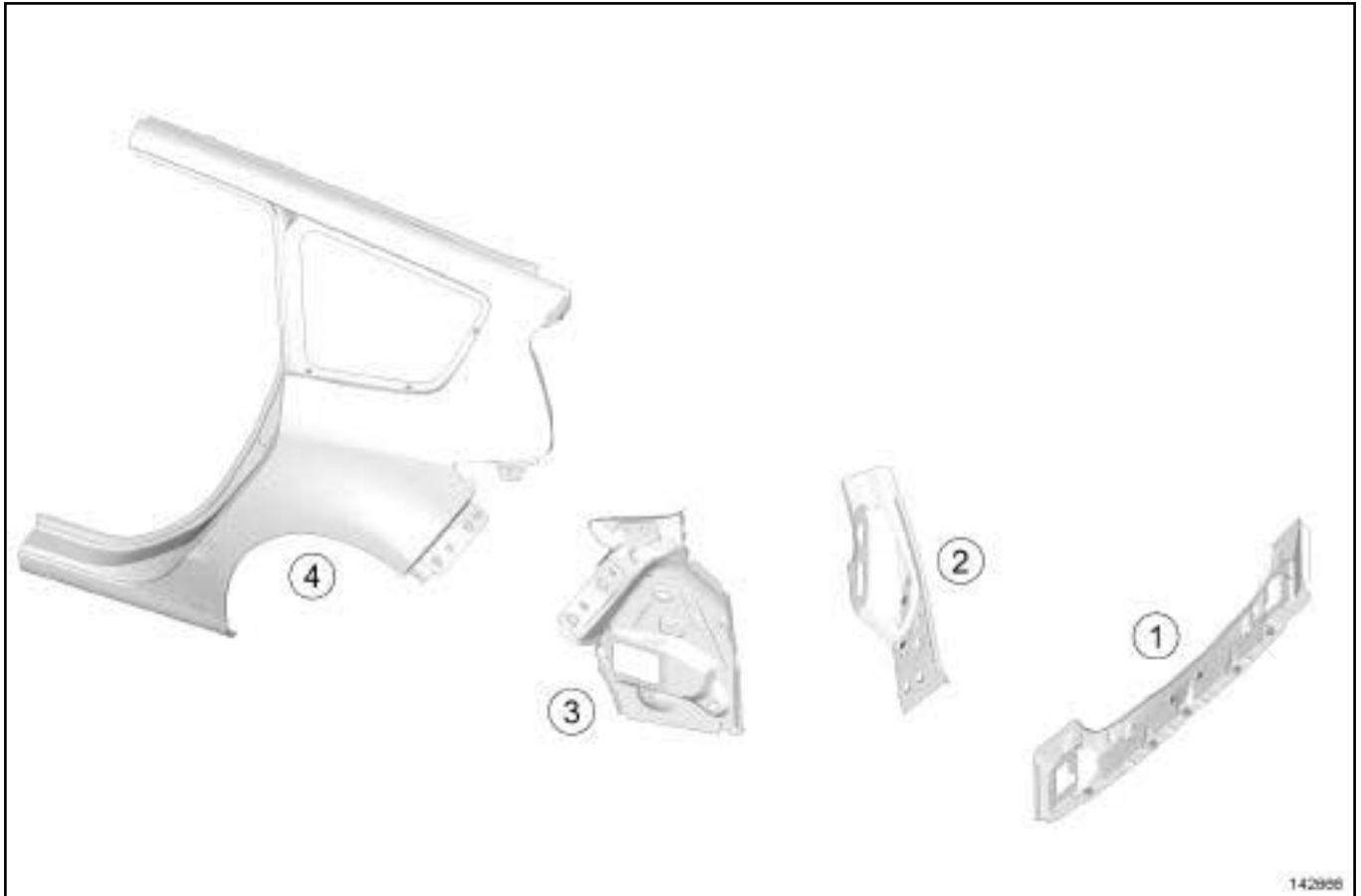
142678

142678

Vehicle damaged at rear: Description

J95

1st degree

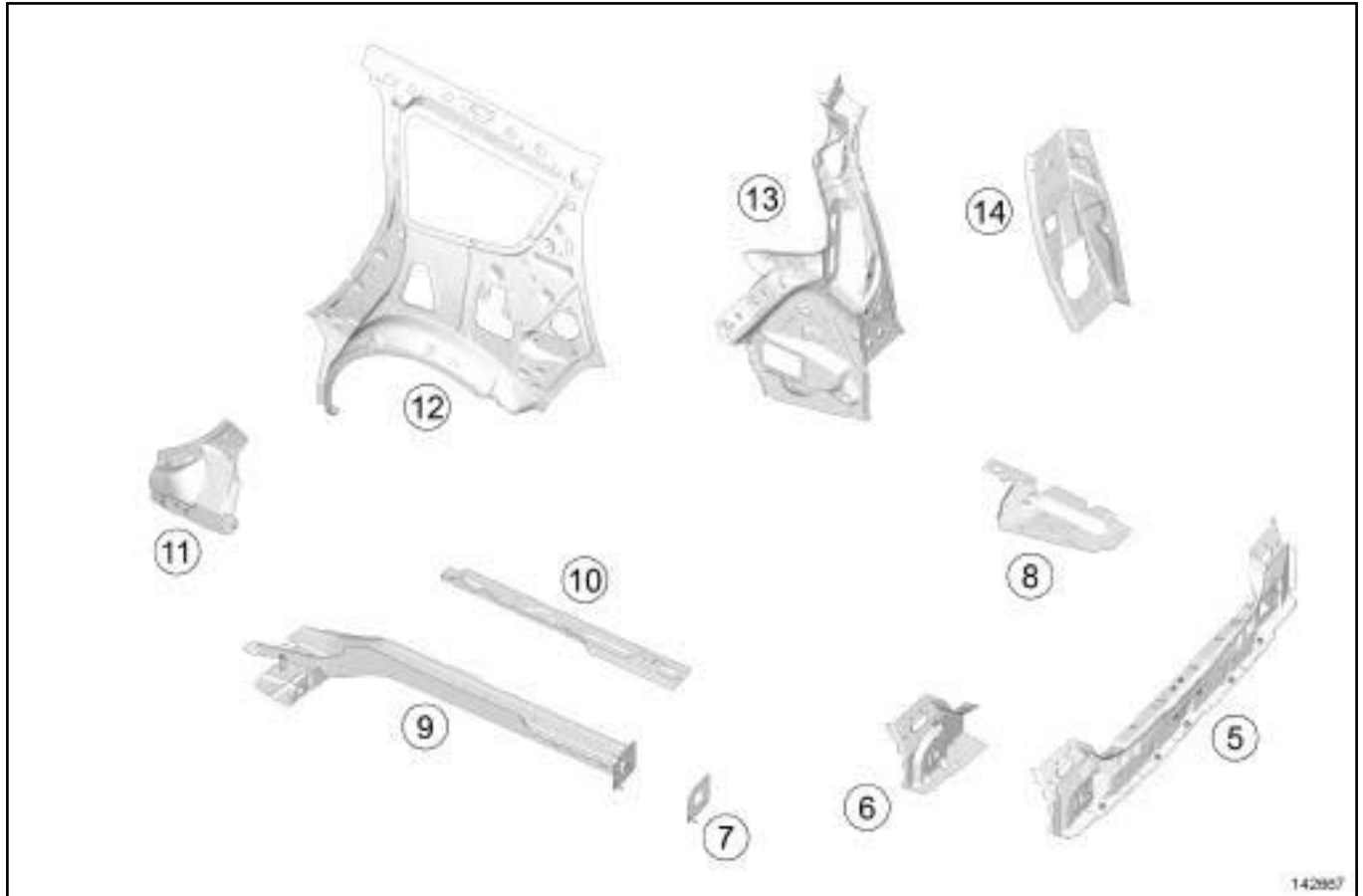


- (1) rear end panel,
- (2) rear lights support,
- (3) rear wing panel extension,
- the rear wing panel (4) .

Vehicle damaged at rear: Description

J95

2nd degree



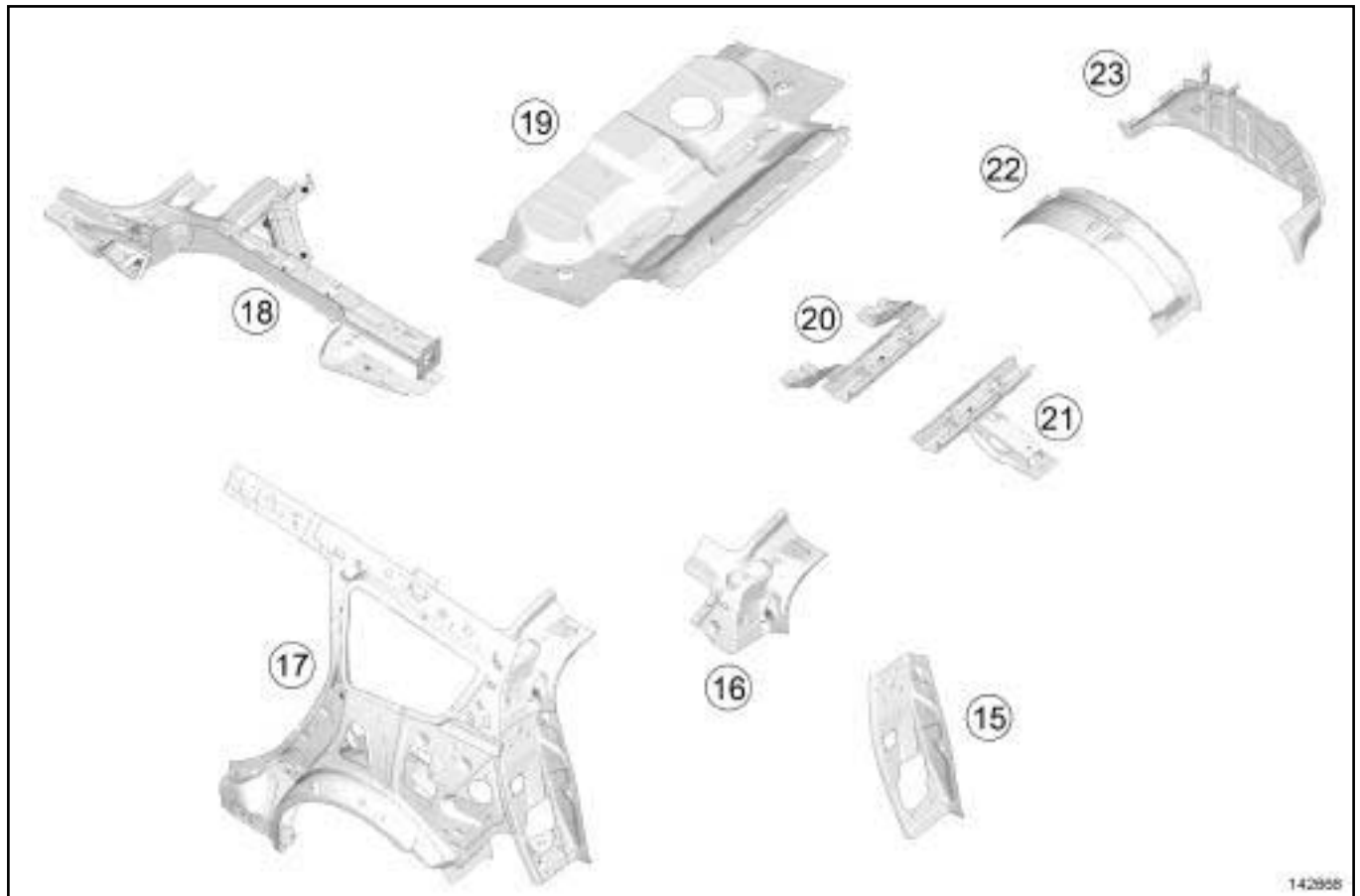
142667

- (5) rear end panel assembly,
- (6) rear end panel side lining,
- (7) rear impact cross member mounting reinforcement,
- (8) rear end lower cross member, side section,
- (9) rear side member (rear partial),
- (10) rear side member closure panel,
- (11) sill panel closure panel, rear section,
- (12) outer rear wheel arch,
- (13) rear wing panel rain channel,
- (14) light mounting lining.

Vehicle damaged at rear: Description

J95

3rd degree



142955

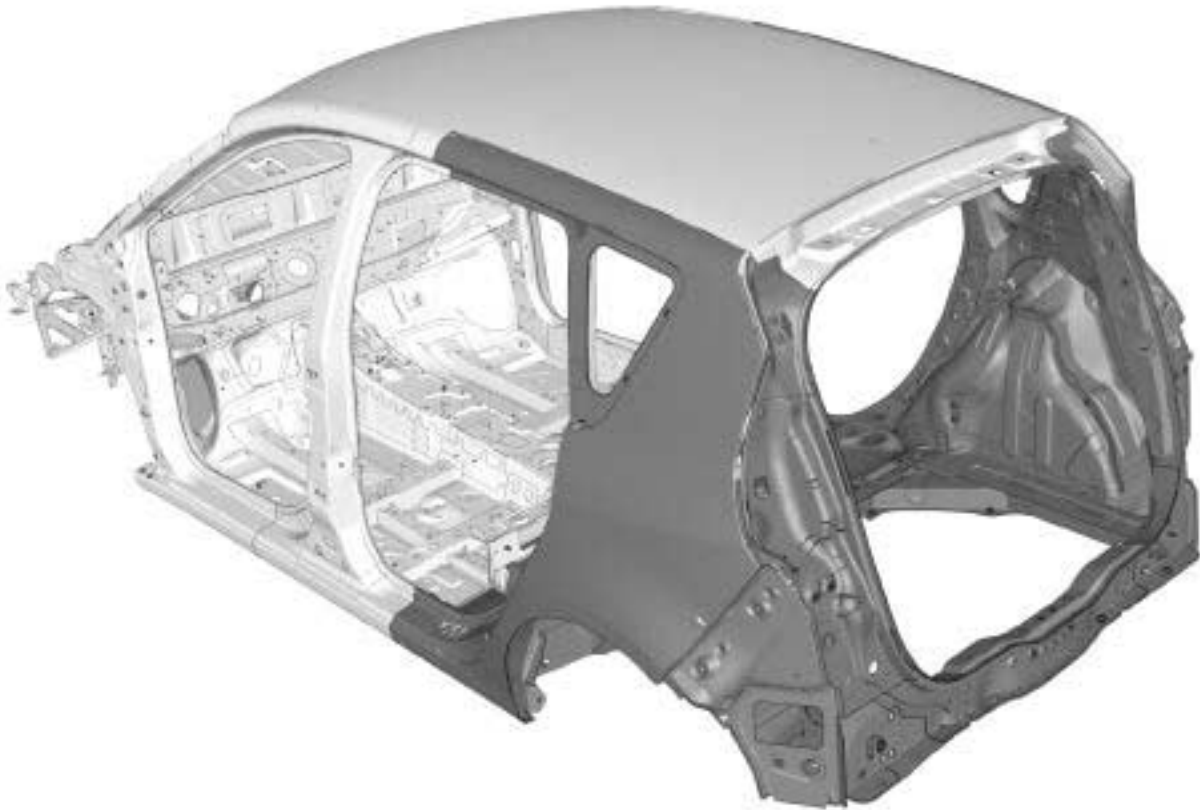
142668

- (15) light mounting lining,
- (16) rear side roof rail reinforcement,
- (17) body side rear lining,
- (18) rear side member assembly,
- (19) rear floor, front section,
- (20) rear floor front cross member, centre section,
- (21) rear floor centre cross member,
- (22) rear wheel arch closure panel,
- (23) inner rear wheel arch.

Vehicle damaged at rear: Description

J95

STANDARD CHASSIS



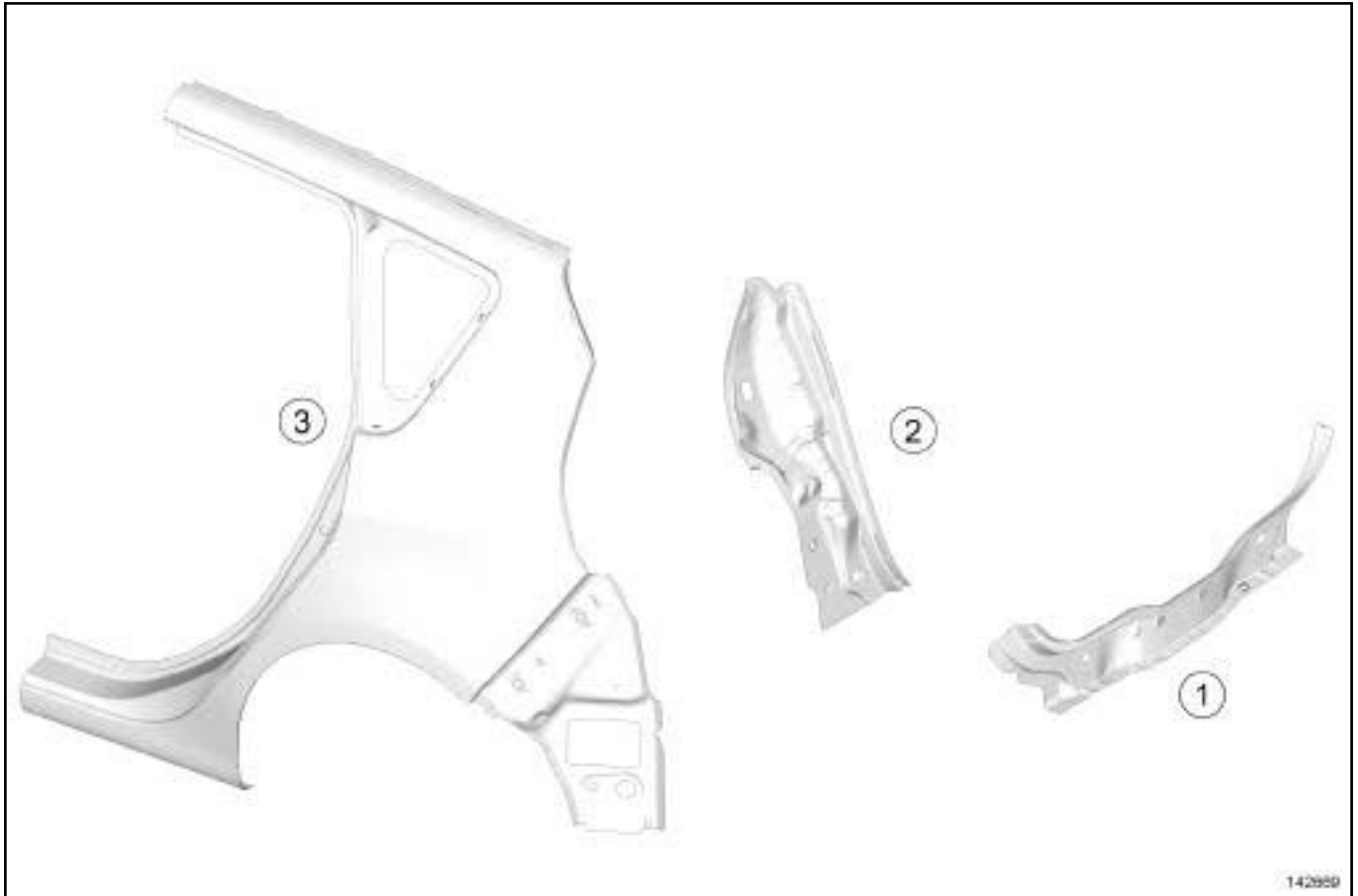
142671

142671

Vehicle damaged at rear: Description

J95

first degree



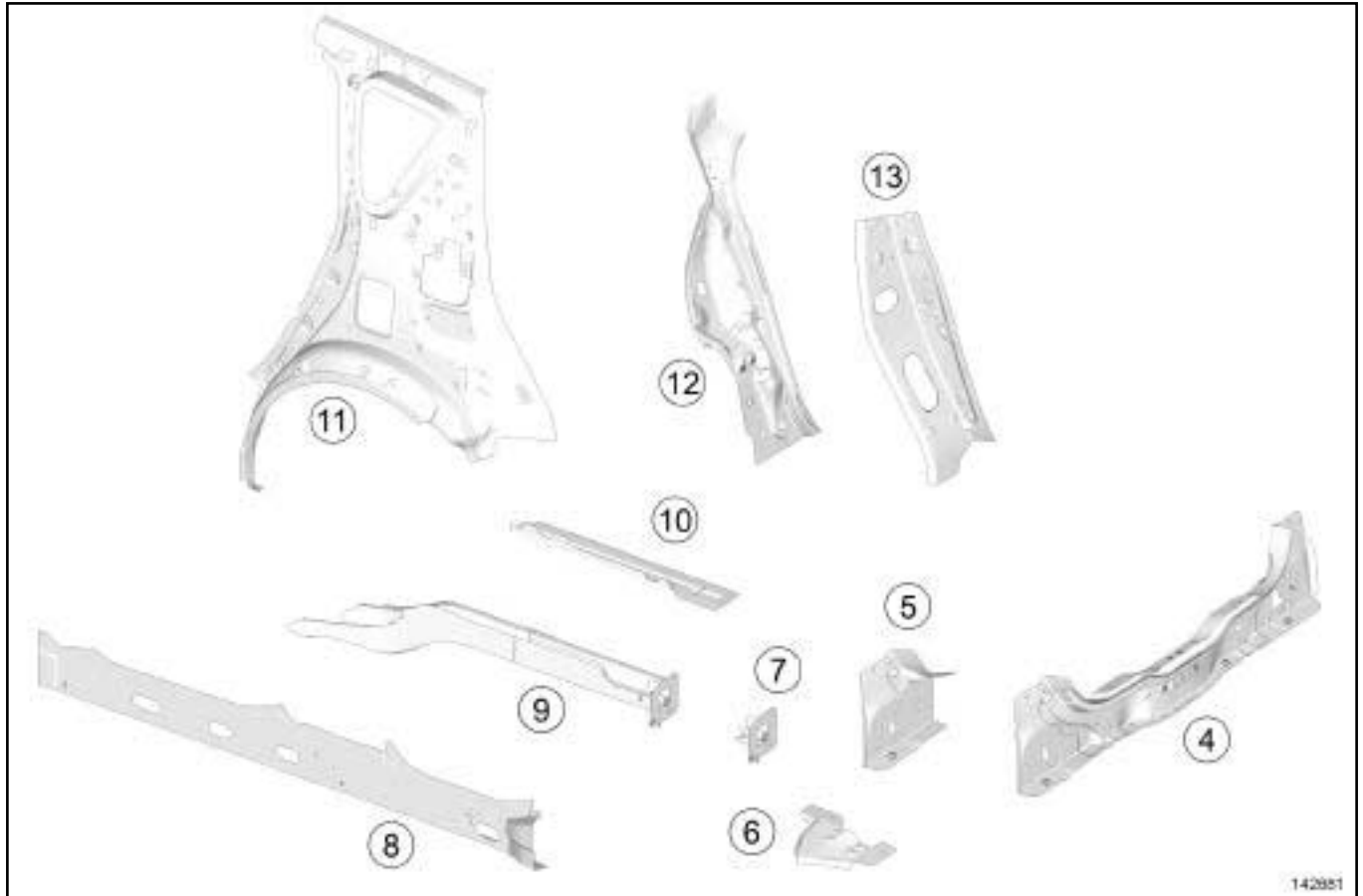
142669

- (1) rear end panel,
- (2) rear lights support,
- (3) rear wing panel.

Vehicle damaged at rear: Description

J95

second degree



142681

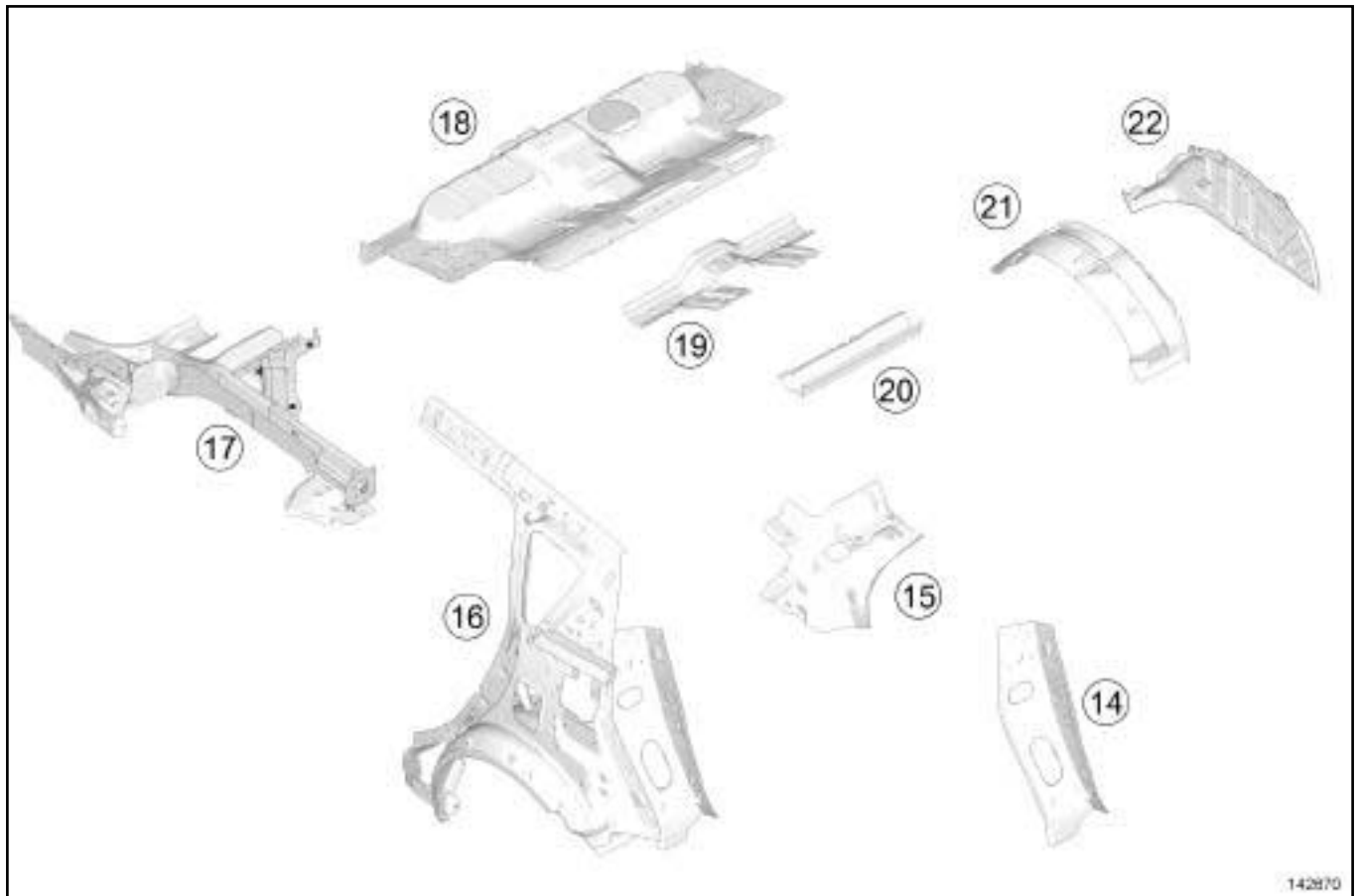
142681

- (4) rear end panel assembly,
- (5) rear end panel side lining,
- (6) rear end lower cross member, side section,
- (7) rear impact cross member mounting reinforcement,
- (8) sill panel closure panel, rear section (partial),
- (9) rear side member (rear partial),
- (10) rear side member closure panel,
- (11) outer rear wheel arch,
- (12) rear wing panel rain channel,
- (13) light mounting lining.

Vehicle damaged at rear: Description

J95

third degree



142670

142670

- (14) light mounting lining,
- (15) rear side roof rail reinforcement,
- (16) quarter panel lining,
- (17) rear side member assembly,
- (18) rear floor, front section,
- (19) rear floor front cross member, centre section,
- (20) rear floor centre cross member,
- (21) rear wheel arch closure panel,
- (22) inner rear wheel arch.

Vehicle: Parts and ingredients for the repairwork

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 for PXX gearboxes	Cartridge	77 11 219 705
RESIN ADHESIVE or SEALING RESIN Sealing resin for engine and gearbox 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

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 II (Electroweldable)	310 ml cartridge	77 11 426 951
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

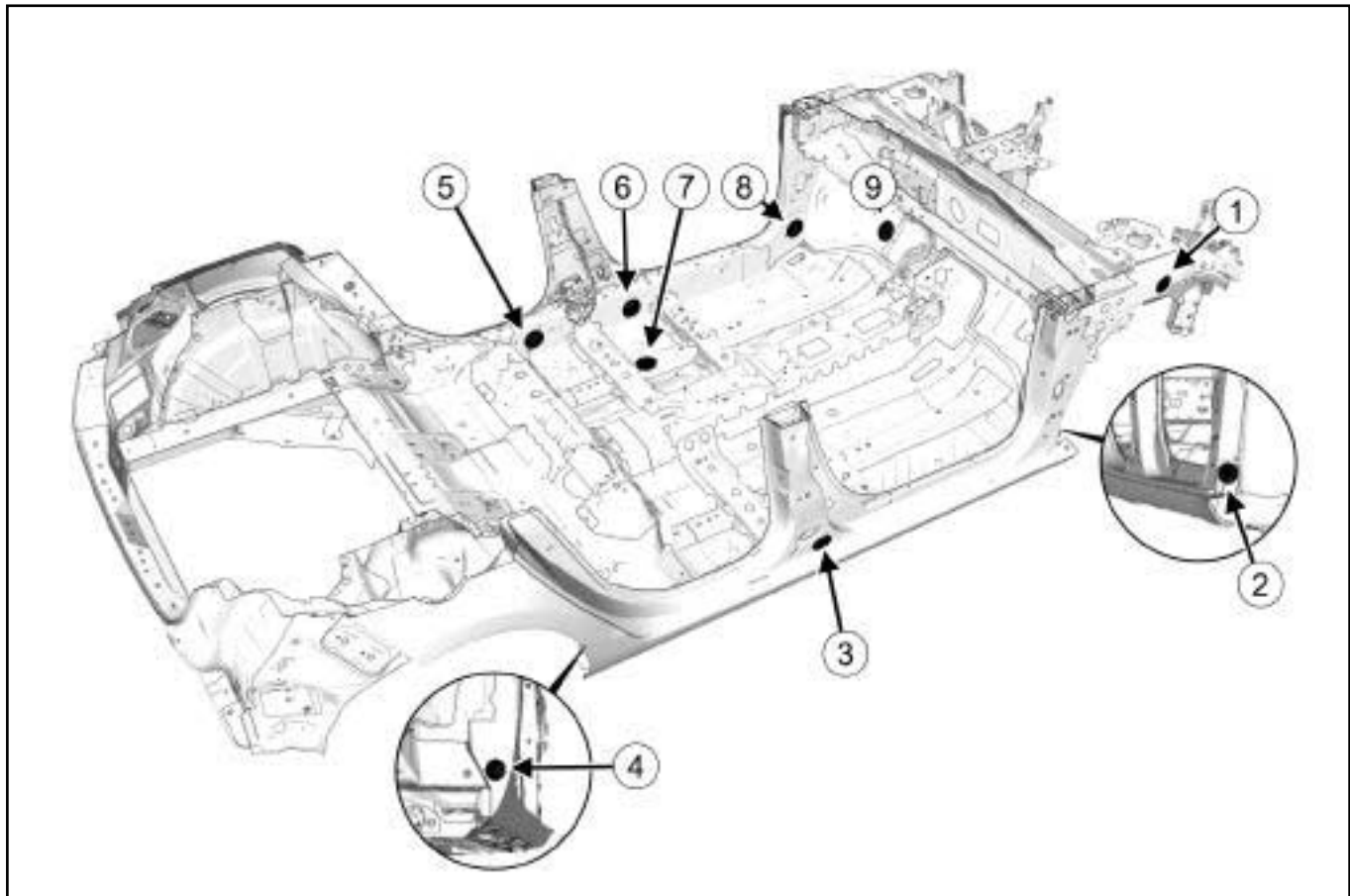
ADHÉRA SPRAY (adhesion promoter for thermoplastics)	400 ml aerosol	77 11 423 734
PRIMARA BLACK (adhesion promoter/primer for thermoplastics)	1 L container	77 11 423 735
		77 11 171 514 (Activator)
PRIMARA (adhesion promoter/primer for thermoplastics)	1 L container	77 11 171 513
		77 11 171 514 (Activator)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

Anti-corrosion protection product Description

B95 or D95 or K95

I - ACCESS POINTS FOR APPLYING ANTI-CORROSION TREATMENT

Points located inside the vehicle



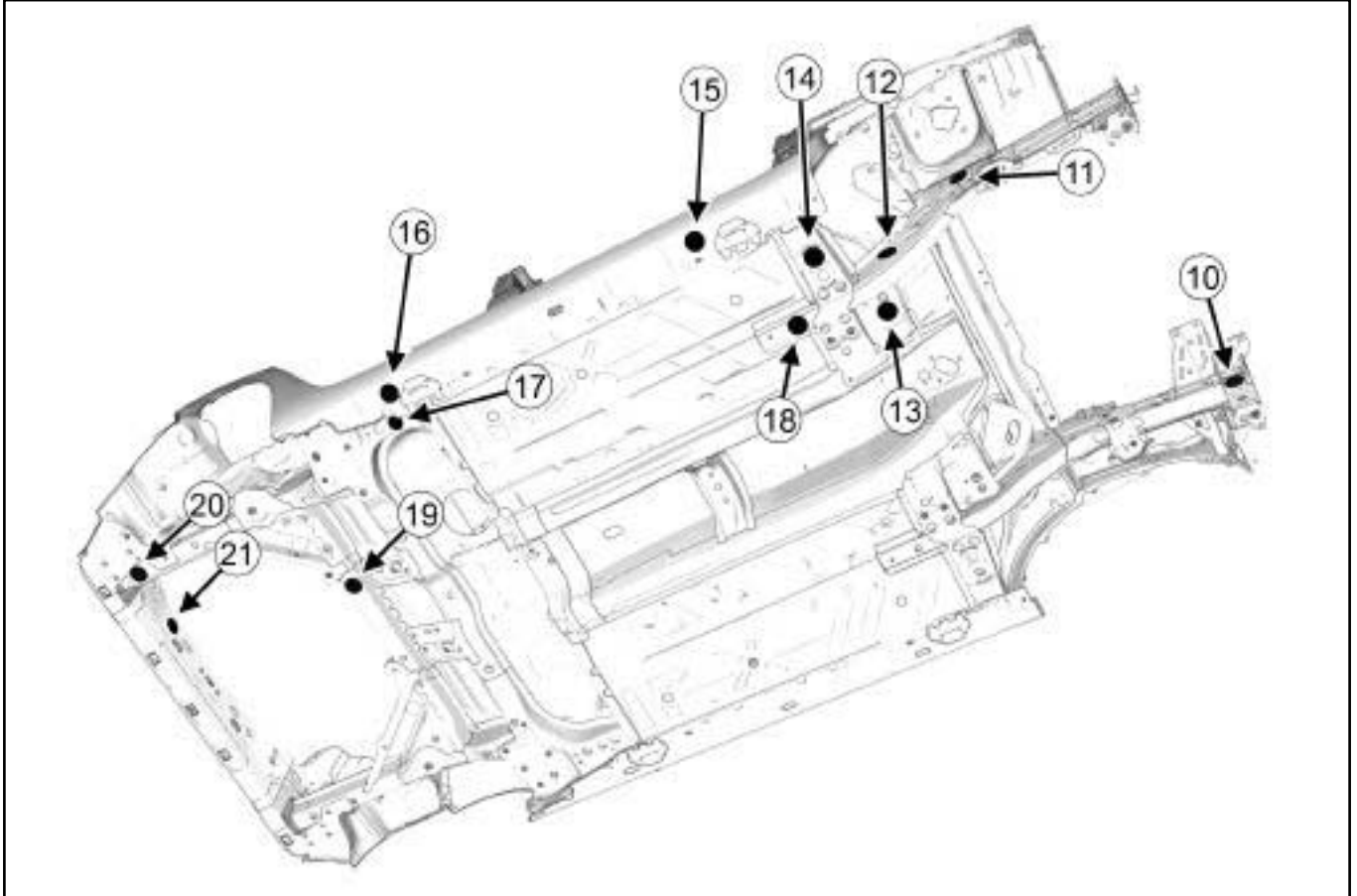
137608

Anti-corrosion protection product Description

B95 or D95 or K95

B95 or D95

Points located under the vehicle

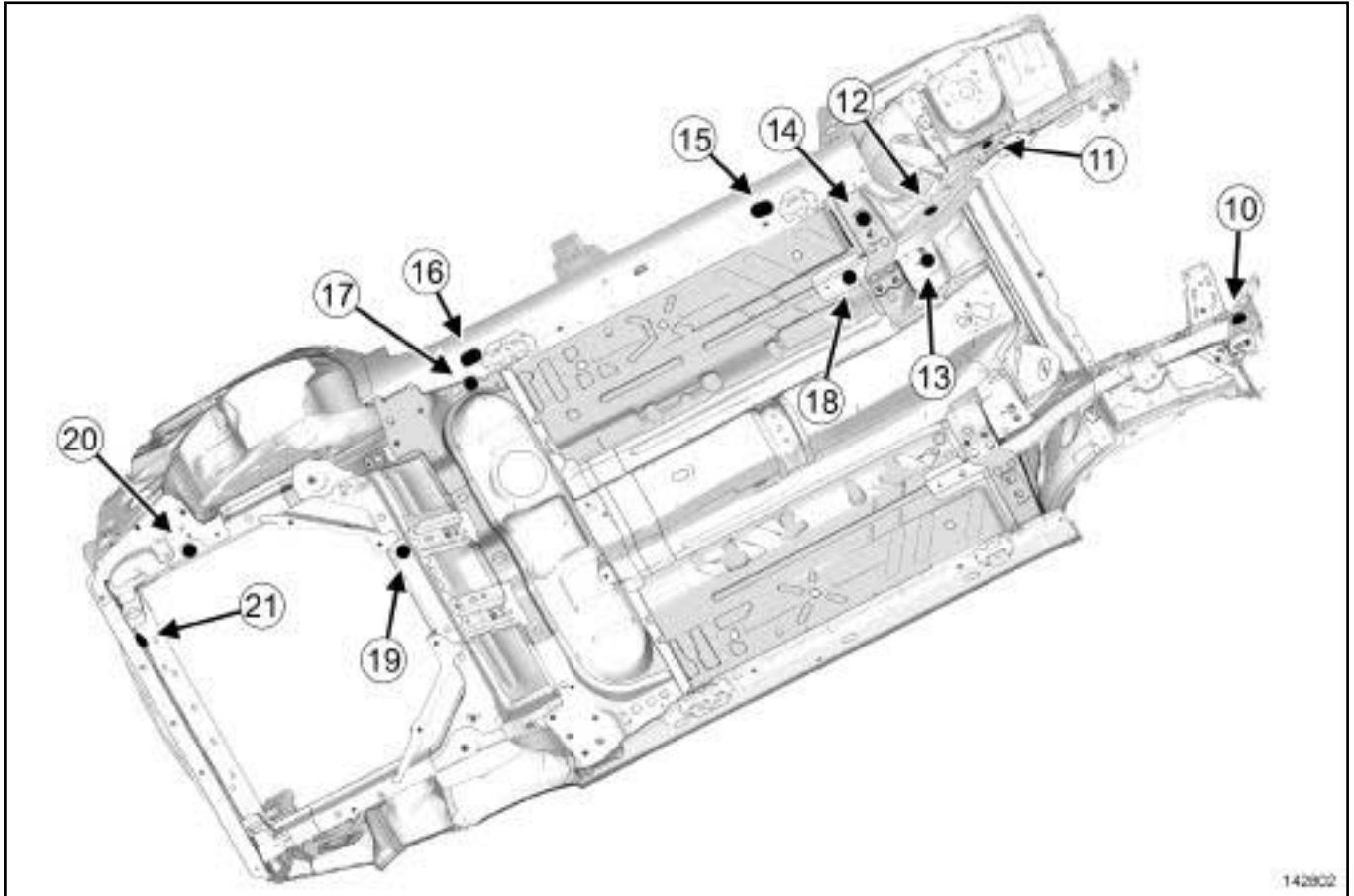


137609

Anti-corrosion protection product Description

B95 or D95 or K95

K95



142802

142802

Note:

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

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 - Front 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 (9) , (10) , (11) and (12) .

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

- injection of wax into points (13) , (14) and (18) .

2 - Side impact

Replacement or repair of the sill panel:

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

injection of wax into points (5) , (6) and (8) .

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

injection of wax into points (2) , (3) , (4) , (15) and (16) .

Replacement of the centre floor:

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

injection of wax into points (7) .

Anti-corrosion protection product Description

B95 or D95 or K95

3 - Rear impact

Replacement of the complete rear side member:

- injection of wax into points **(17)** and **(20)** .

Replacement of the rear end panel:

- injection of wax into points **(21)** .

Replacement of the rear floor centre cross member:

- injection of wax into points **(19)**

Replacement of the front section of the rear floor:

- injection of wax into points **(17)** .

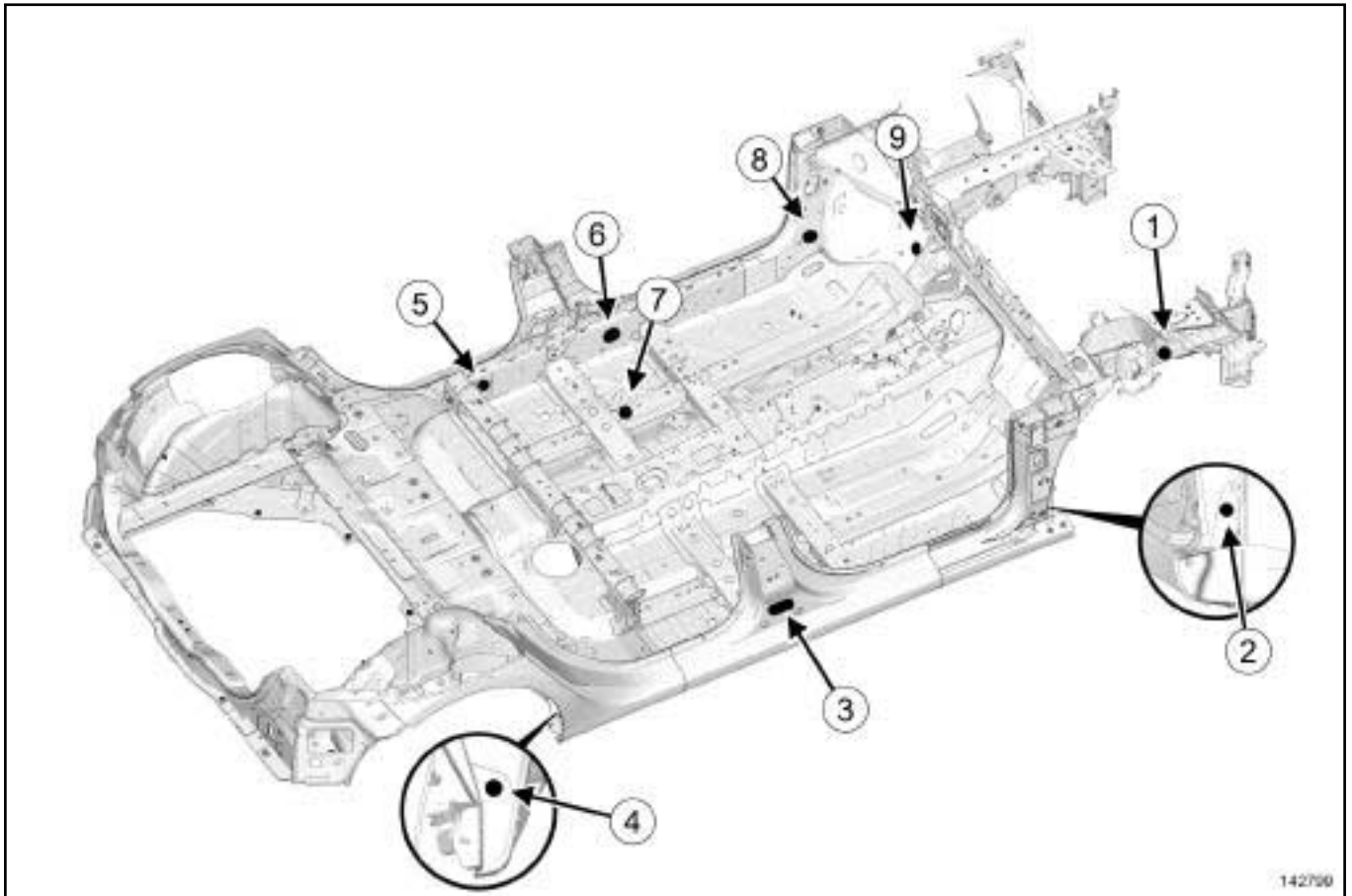
**II - OPERATING PROCEDURE FOR TREATING
HOLLOW SECTIONS**

For application of anti-corrosion protective wax (see **Anti-corrosion protection of joints after welding: Description**) (MR400, 40J, Protection)

Anti-corrosion protection product Description

J95

I - ACCESS POINTS FOR APPLYING ANTI-CORROSION TREATMENT



142799

142799

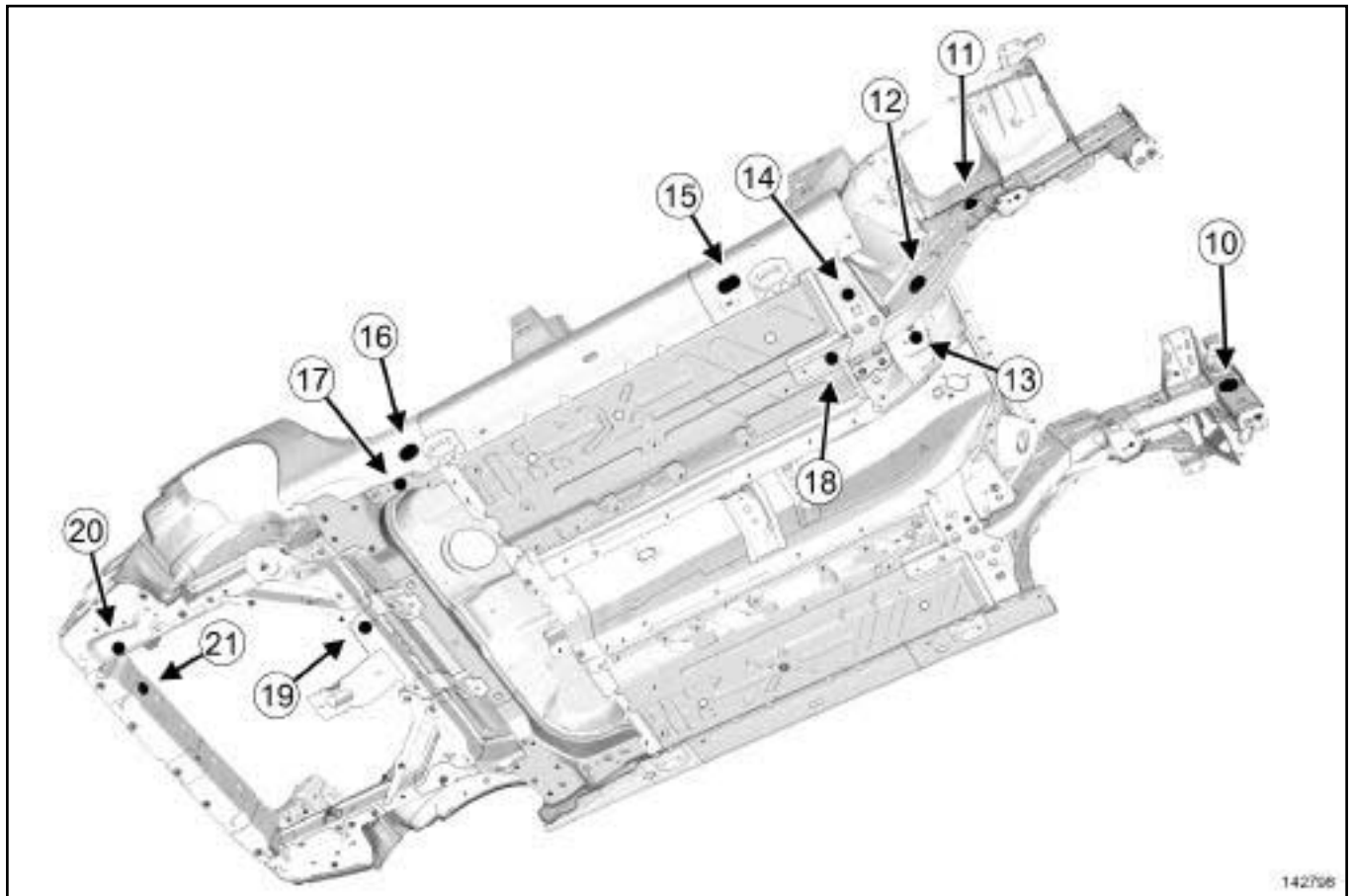
PAINT

Anti-corrosion protection product Description

04E

J95

LONG CHASSIS

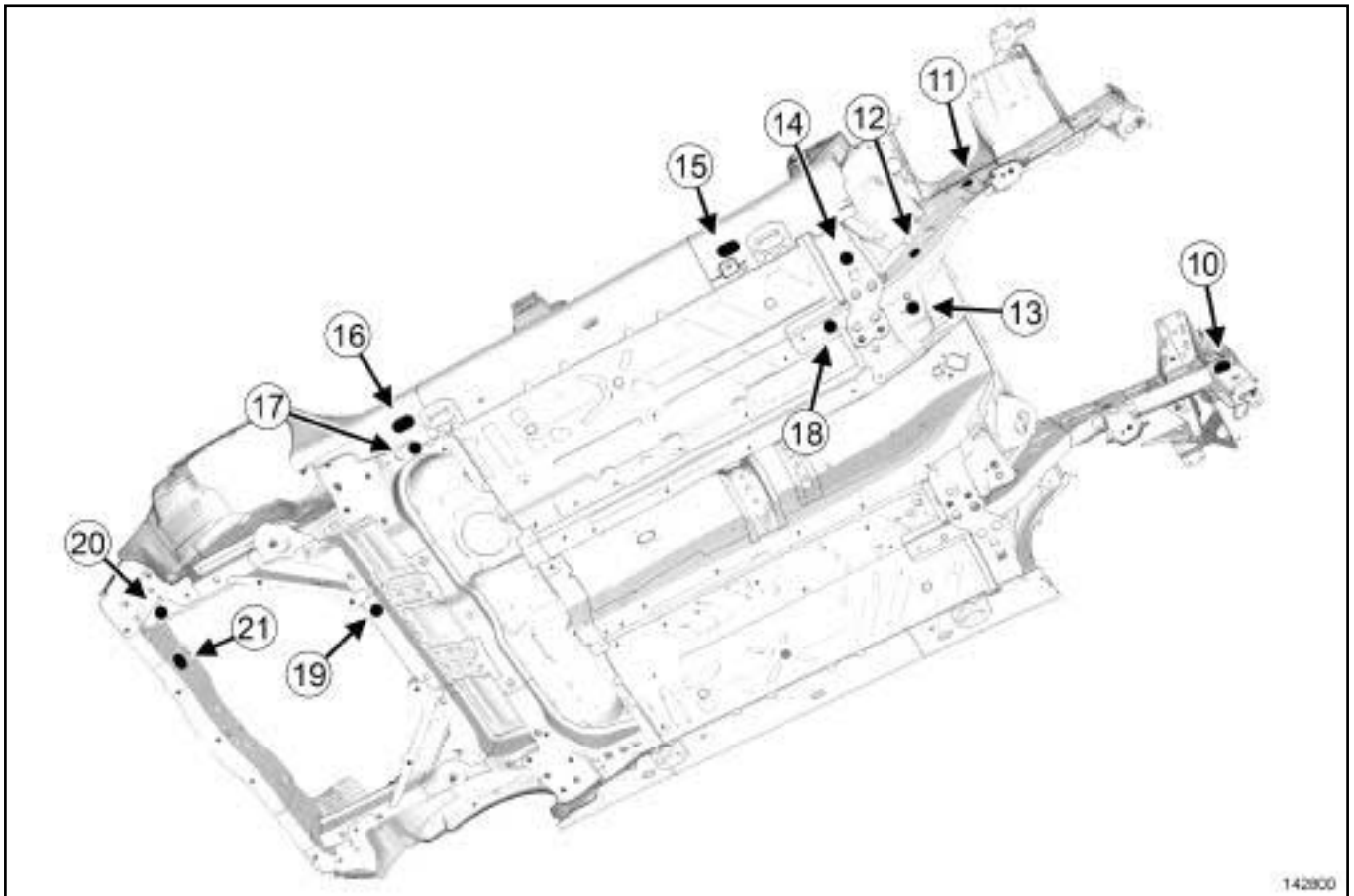


142798

142798

J95

STANDARD CHASSIS



142800

Note:

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

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 - Front 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 (9) , (10) , (11) and (12) .

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

- injection of wax into points (13) , (14) and (18) .

2 - Side impact

Replacement or repair of the sill panel:

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

injection of wax into points (5) , (6) and (8) .

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

injection of wax into points (2) , (3) , (4) , (15) and (16) .

Replacement of the centre floor:

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

injection of wax into points (7) .

Anti-corrosion protection product Description

J95

3 - Rear impact

Replacement of the complete rear side member:

- injection of wax into points **(17)** and **(20)** .

Replacement of the rear end panel:

- injection of wax into points **(21)** .

Replacement of the rear floor centre cross member:

- injection of wax into points **(19)** .

Replacement of the front section of the rear floor:

- injection of wax into points **(17)** .

**II - OPERATING PROCEDURE FOR TREATING
HOLLOW SECTIONS**

For application of anti-corrosion protective wax (see **Anti-corrosion protection of joints after welding: Description**) (MR400, 40J, Protection)

PAINT

Colour code: Specifications

04E

|

Colour description	Colour code	Satin textured code
Glacier white	OV369	220112
Pacific blue	OV460	215139
Capsicum red	OV727	230103
Mercury grey	TED69	205265
Oyster grey	TEKNG	205325
Eclipse grey	TEB66	205201
Stone	TEHNC	220125
Twilight blue	NV472	205219
Pearl black	NV676	205255
Ruby red	TENNJ	230114
Sapphire blue	TERNW	215152
Emerald green	TEDNH	225088
Olive green	TEDNP	
Cayenne	TEENJ	230113
Extreme blue	TERNA	215137A
Pepper beige	TED11	220116
Spray blue	TERNR	215151
Mirage grey	TEKNK	
Opal blue	TERPA	
Mocha brown	TECNB	
Yellow sport	OVENP	
Pearl white	TEQNC	