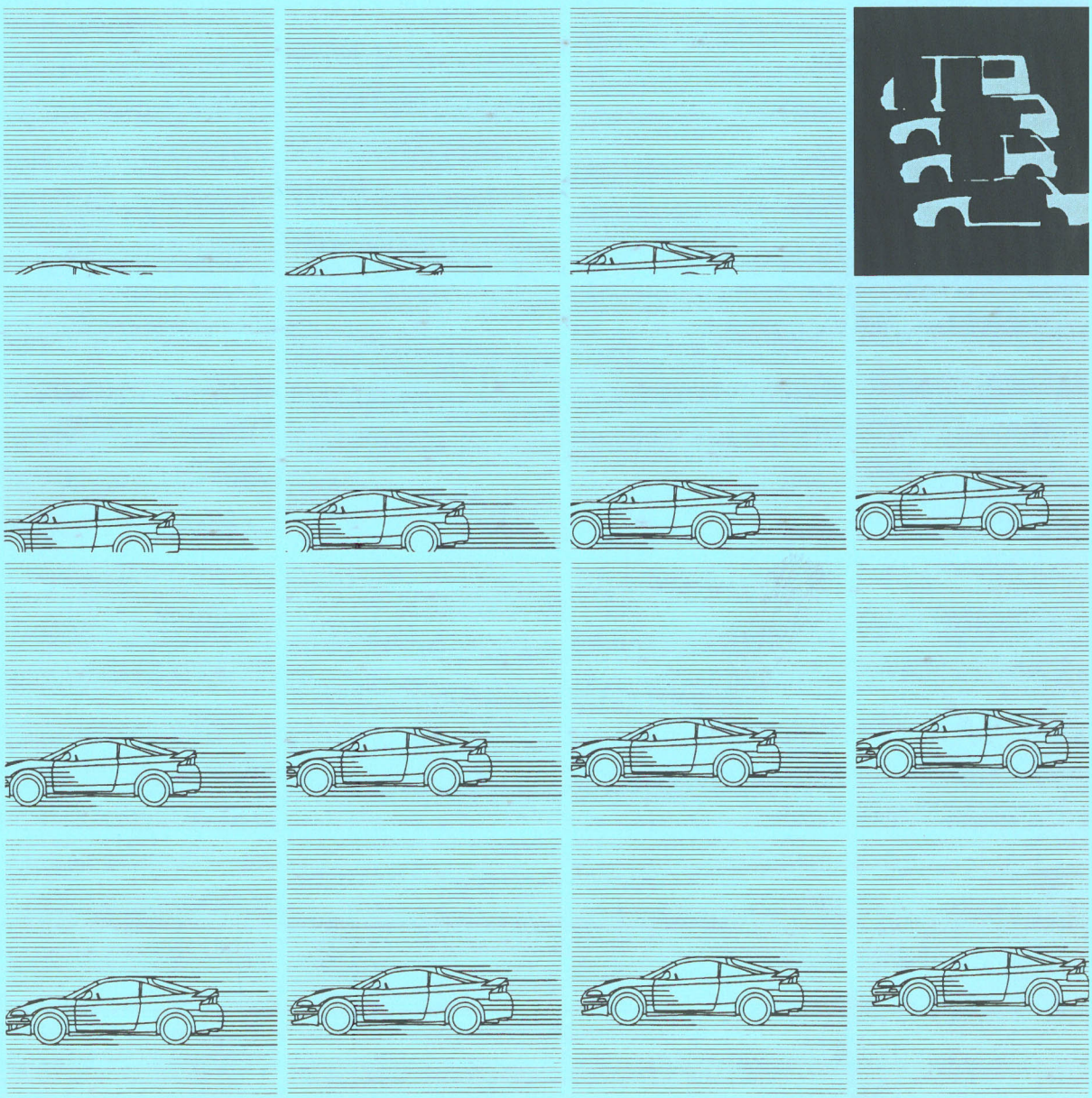
MITSUBISHI MOTORS

Body Repair Manual

ECLIPSE '96



Pub. No. PBUE95E1

ECLIPSE

BODY REPAIR MANUAL

FOREWORD

This manual has been prepared for the use of all service mechanics engaged in the body repair service. Body dimensions, welded panel replacement procedures, body sealing application instructions, and all the other information required to provide quick and accurate body repair service are contained herein. One especially important point is the welding method. All of the vehicle's original strength and durability can be maintained by following the welding procedures contained in this manual.

Note that, in order to maximise the efficiency of the repair work, first, both the extent of the damage and the replacement parts that are needed must be calculated accurately, and then the actual work must be performed accurately and efficiently.

The publications shown on the following page are also available, and should be used in conjunction with this manual.

We reserve the right to make changes in design and specifications and/or to make additions to or improvements in its products without imposing any obligation upon itself to install them on its products previously manufactured.

GROUP INDEX

GENERAL 0

BODY CONSTRUCTION 1

BODY DIMENSIONS 2

WELDED PANEL REPLACEMENT 3

CORROSION PROTECTION 4

SYNTHETIC-RESIN PARTS 5

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WIRING AND PIPING DIAGRAM 7

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MITSUBISHI MOTOR SALES
Europe B.V.

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RELATED PUBLICATIONS

- TECHNICAL INFORMATION MANUAL
  Pub. No.
- WORKSHOP MANUAL
  CHASSIS GROUP
  Pub. No.
  ENGINE GROUP
  Pub. No. PWEE□□□□ (Looseleaf edition)
  ELECTRICAL WIRING
  Pub. No.
- PARTS CATALOGUE
- BODY REPAIR MANUAL (PASSENGER CARS & LIGHT COMMERCIAL VEHICLES)
  Pub. No. PBAE9216

MANUAL DESCRIPTION

CONTENTS

The first page of this manual contains a table of contents which lists the title and number of each group.

TEXT

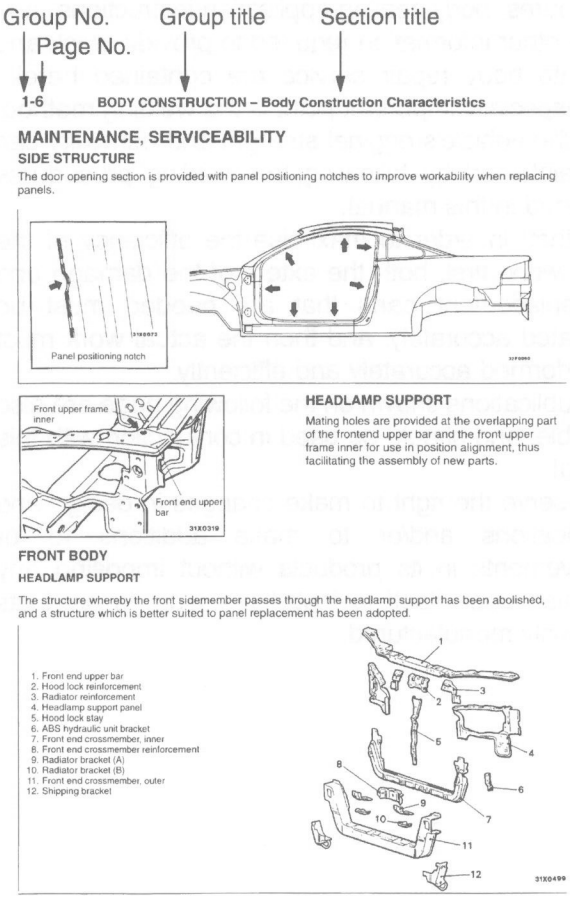
The vehicles to which the information in the text pertains are generally designated according to their body classification. In some cases, other limiting designations such as name, type of drive system, etc., are given. If there are no such limiting designations, the information can be assumed to cover all models.

PAGE NUMBERS

All pages are numbered consecutively within each group. The page numbers can be found on the upper left or right of each page.

SECTION TITLES

The section titles can be found at the upper centre of each page.



0 GENERAL

VEHICLE IDENTIFICATION 0-2
MAJOR SPECIFICATIONS 0-2

VEHICLE IDENTIFICATION

MODELS

Model code		Engine model	Transmission model	Fuel supply system
D32A	MNHSLF6	4G63 (1,997 m/)	F5M31 (5M/T)	MPI

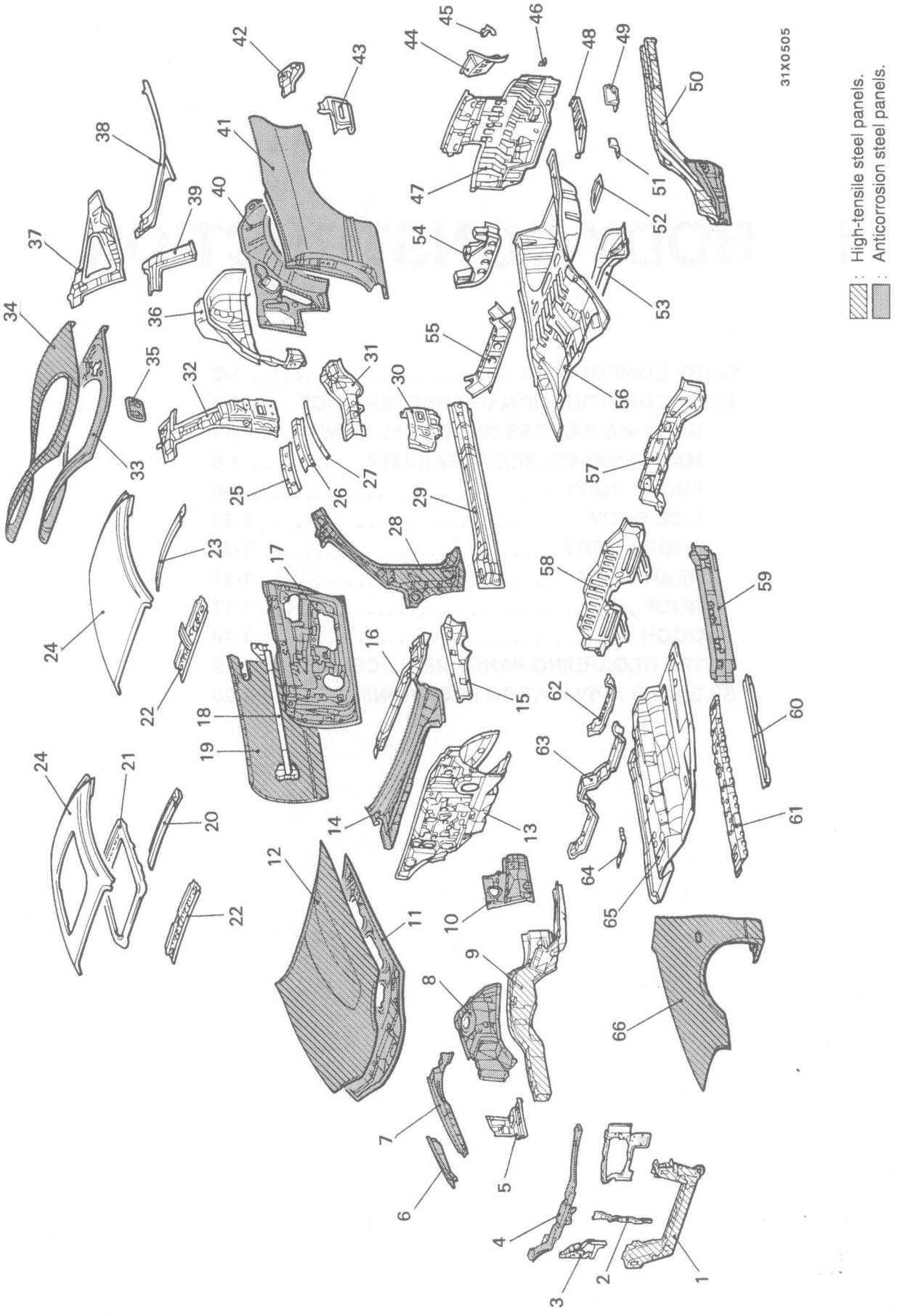
MAJOR SPECIFICATIONS

Items		D32A
		MNHSLF6
Dimensions	mm	
Overall length		4,385
Overall width		1,745
Overall height (unladen)		1,295
Wheelbase		2,510
Track-front		1,515
Track-rear		1,505
Body overhang		
Front		940
Rear		935
Ground clearance (unladen)		145
Wheel alignment		
Front wheel alignment		
Toe-in (at the centre of tyre tread)	mm	0
Toe angle (per wheel)		0° ± 0°09′
Camber		–0°05′
Caster		4°40′
Kingpin inclination angle		7°45′
Rear wheel alignment		
Toe-in	mm	3
Toe angle (per wheel)		0°09 ± 0°09′
Camber		–0°20′
Wheels and tyres		
Tyre size		205/60R15 91V
Wheel size		15 x 6JJ
Offset	mm	46

1 BODY CONSTRUCTION

BODY COMPONENTS 1-2
BODY CONSTRUCTION CHARACTERISTICS 1-4
BODY MAIN CROSS-SECTIONAL VIEWS 1-4
MAINTENANCE, SERVICEABILITY 1-6
FRONT BODY 1-6
SIDE BODY 1-13
UNDER BODY 1-14
REAR BODY 1-17
ROOF 1-17
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BODY COMPONENTS

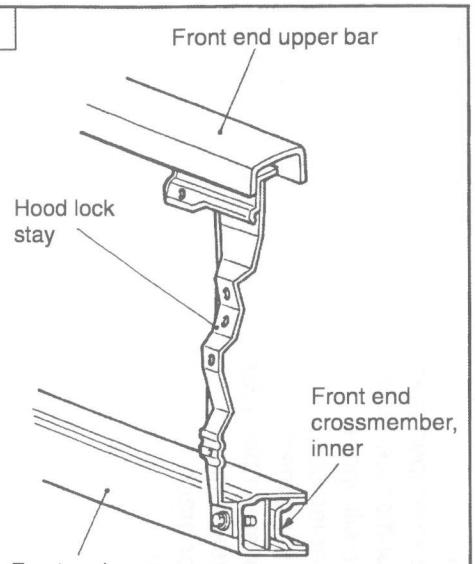


1. Front end crossmember lower
2. Hood lock stay
3. Headlamp support panel
4. Front end upper bar
5. Shield plate
6. Front upper frame, outer
7. Front upper frame, inner
8. Spring house panel
9. Front sidemember
10. Front floor side sill, inner, front
11. Hood inner panel
12. Hood outer panel
13. Dash panel
14. Cowl top panel
15. Front upper frame extension outer
16. Front deck crossmember
17. Front door inner panel
18. Front door side door beam
19. Front door outer panel
20. Roof bow
21. Roof panel reinforcement (vehicles with sunroof)
22. Front roof rail
23. Rear roof rail
24. Roof panel
25. Side roof rail, inner
26. Side roof rail, outer
27. Front drip channel
28. Front pillar
29. Front floor side sill, outer
30. Center pillar reinforcement extension
31. Beltline reinforcement
32. Center pillar reinforcement
33. Tailgate inner panel
34. Tailgate outer panel
35. Fuel filler lid
36. Rear wheelhouse panel, inner
37. Quarter panel, inner, upper
38. Quarter panel, outer. upper
39. Center pillar, outer
40. Quarter panel, inner, lower
41. Quarter panel, outer, lower
42. Quarter inner extension
43. Quarter outer extension
44. Rear lamp bracket
45. Rear fascia bracket side
46. Rear bumper bracket lower
47. Rear end panel
48. Rear floor side brace
49. Shipping bracket
50. Rear floor sidemember
51. Jack bracket
52. Garage jack bracket
53. Rear floor crossmember, lower
54. Rear floor pan crossmember
55. Rear floor crossmember, upper
56. Rear floor pan
57. Rear seat crossmember, rear
58. Rear seat crossmember, front
59. Front floor side sill, inner
60. Front floor sidemember
61. Backbone reinforcement
62. Front floor crossmember, rear
63. Front floor crossmember
64. Side sill to floor brace
65. Front floor pan
66. Front fender

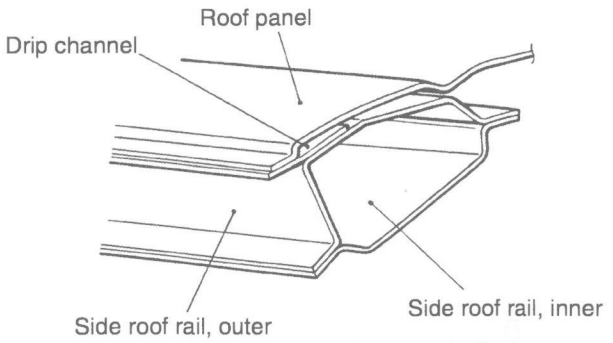
BODY CONSTRUCTION CHARACTERISTICS

BODY MAIN CROSS-SECTIONAL VIEWS

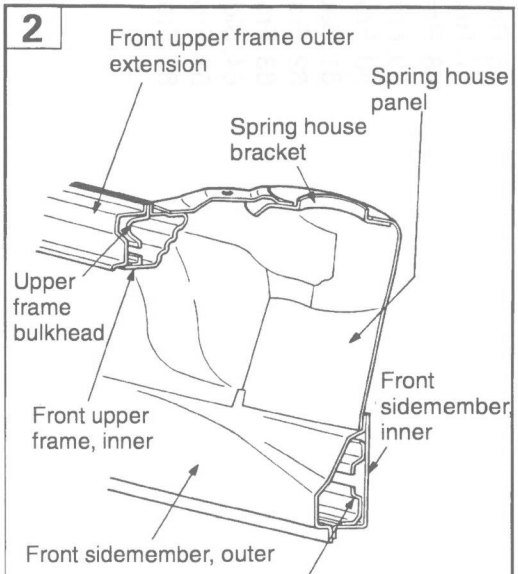
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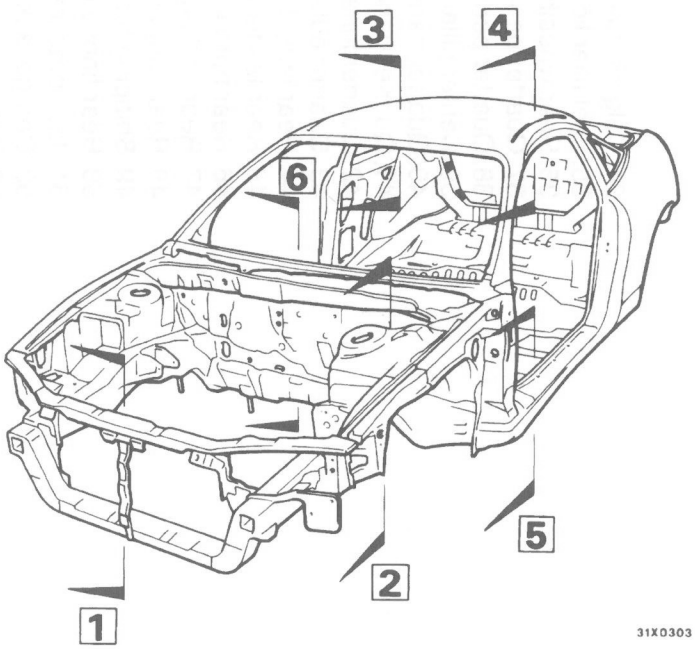


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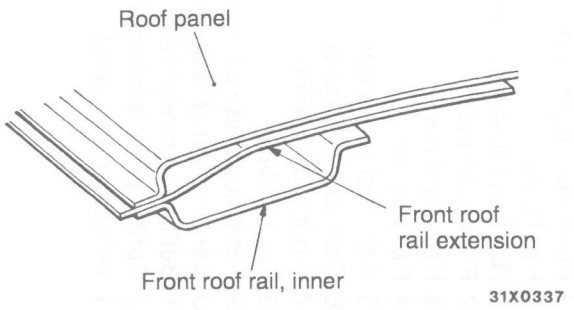


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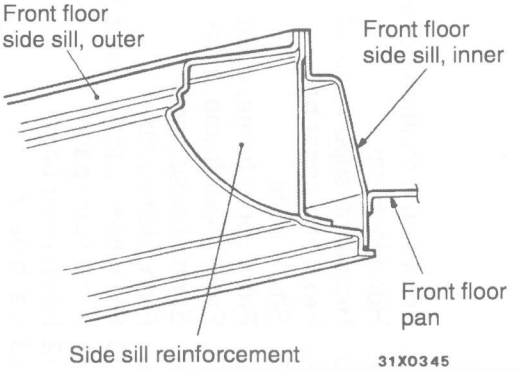


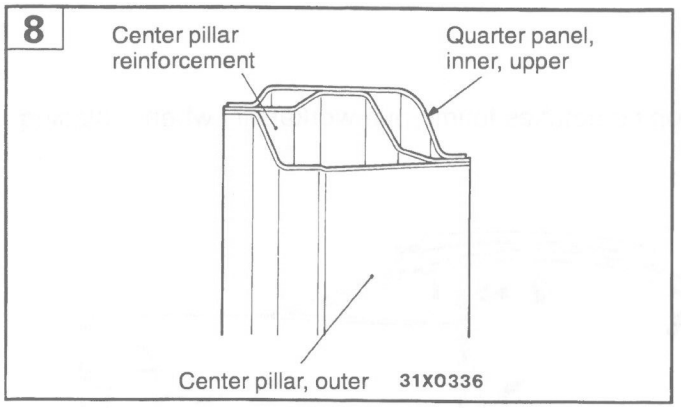


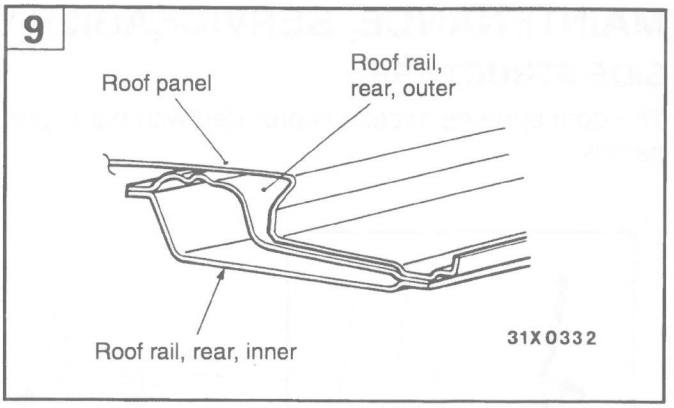
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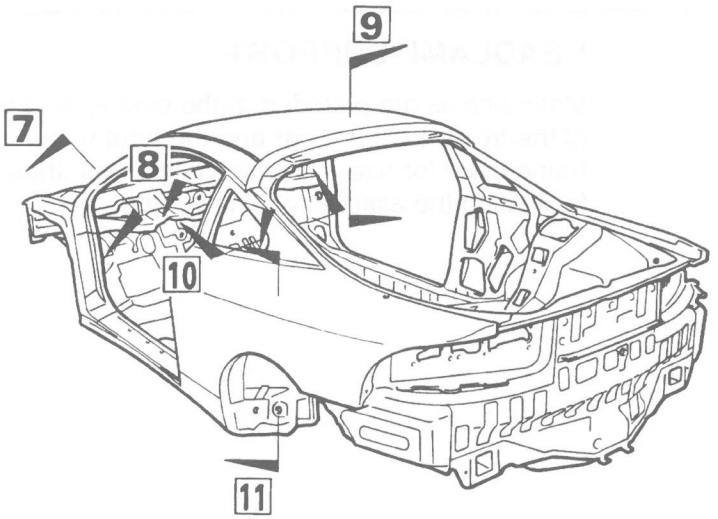


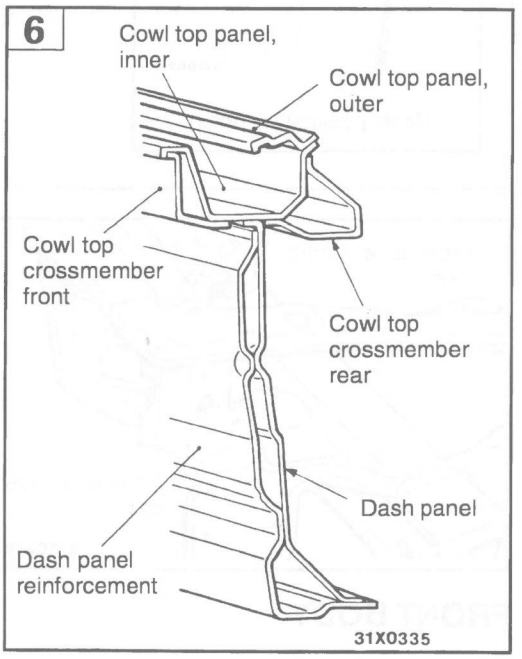
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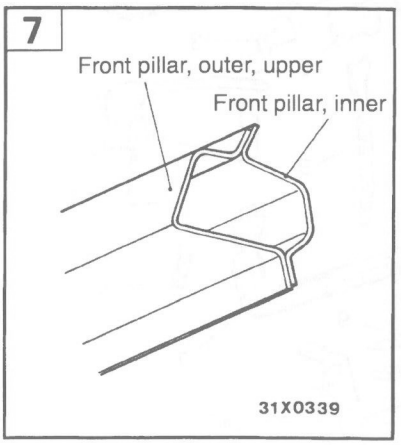


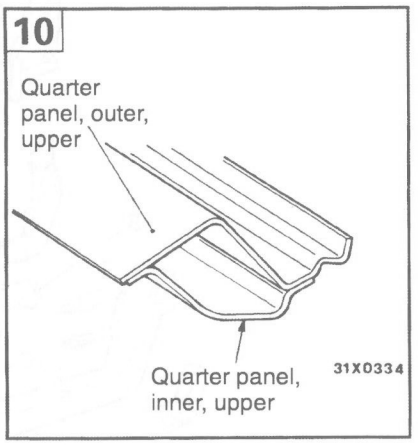

8
Center pillar reinforcement
Quarter panel, inner, upper
Center pillar, outer
31X0336

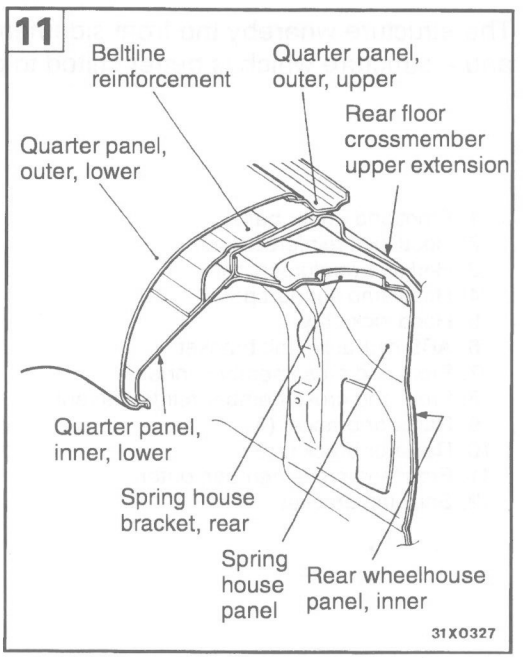

9
Roof panel
Roof rail, rear, outer
Roof rail, rear, inner
31X0332


9
7
8
10
11


6
Cowl top panel, inner
Cowl top panel, outer
Cowl top crossmember front
Cowl top crossmember rear
Dash panel
Dash panel reinforcement
31X0335


7
Front pillar, outer, upper
Front pillar, inner
31X0339

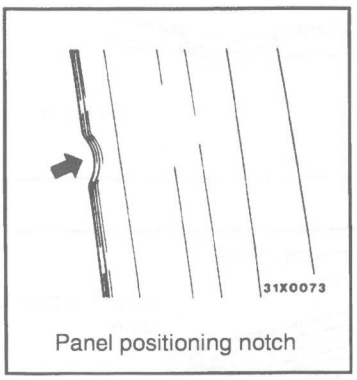

10
Quarter panel, outer, upper
Quarter panel, inner, upper
31X0334


11
Beltline reinforcement
Quarter panel, outer, upper
Rear floor crossmember upper extension
Quarter panel, outer, lower
Quarter panel, inner, lower
Spring house bracket, rear
Spring house panel
Rear wheelhouse panel, inner
31X0327

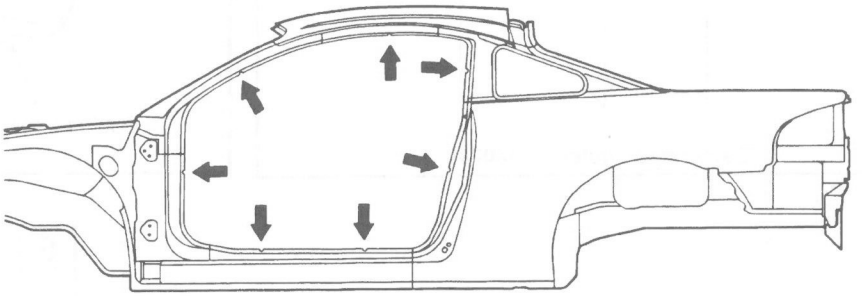
MAINTENANCE, SERVICEABILITY

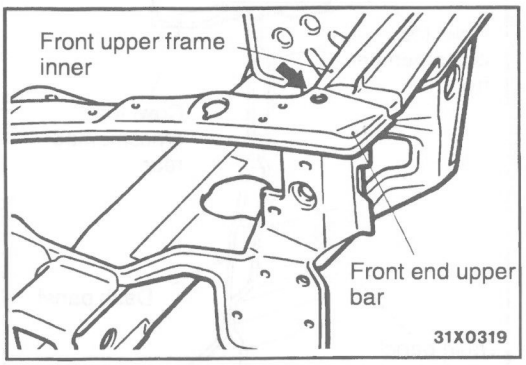
SIDE STRUCTURE

The door opening section is provided with panel positioning notches to improve workability when replacing panels.



Panel positioning notch


32F0050



HEADLAMP SUPPORT

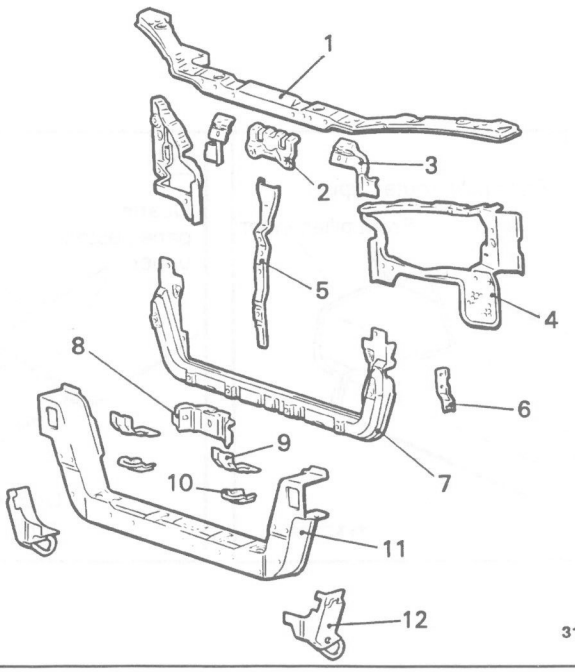
Mating holes are provided at the overlapping part of the frontend upper bar and the front upper frame inner for use in position alignment, thus facilitating the assembly of new parts.

FRONT BODY

HEADLAMP SUPPORT

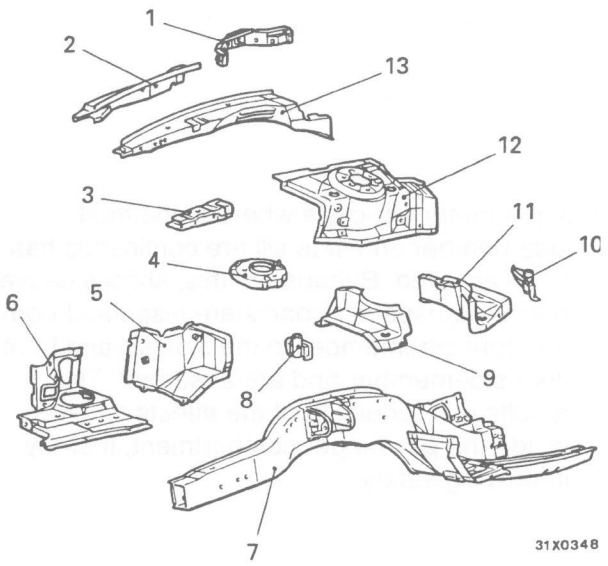
The structure whereby the front sidemember passes through the headlamp support has been abolished, and a structure which is better suited to panel replacement has been adopted.

1. Front end upper bar
2. Hood lock reinforcement
3. Radiator reinforcement
4. Headlamp support panel
5. Hood lock stay
6. ABS hydraulic unit bracket
7. Front end crossmember, inner
8. Front end crossmember reinforcement
9. Radiator bracket (A)
10. Radiator bracket (B)
11. Front end crossmember, outer
12. Shipping bracket



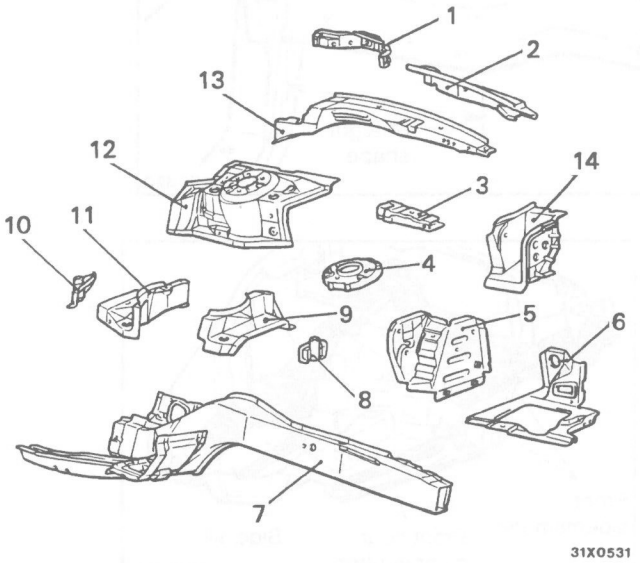
FENDER SHIELD

(Right side)

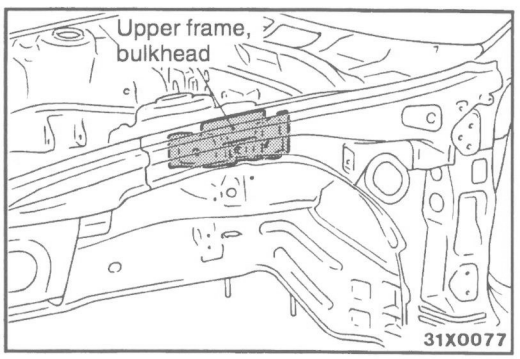


1. Upper frame bulkhead
2. Front upper frame, outer
3. Front upper frame reinforcement inner
4. Spring house bracket
5. Front fender shield
6. Shield plate
7. Front sidemember

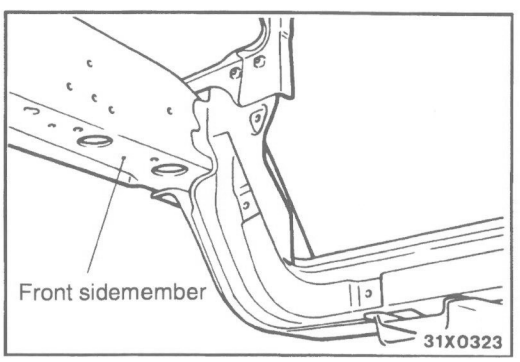
(Left side)



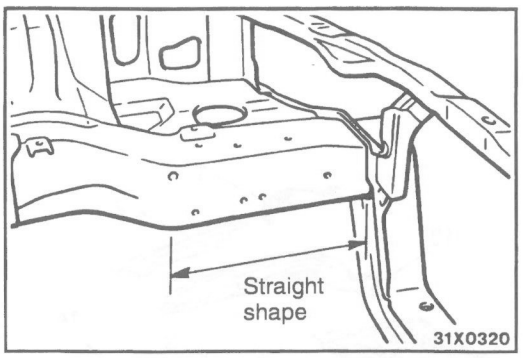
8. Upper arm pipe support, front
9. Spring house reinforcement, front
10. Upper arm pipe support, rear
11. Spring house reinforcement, rear
12. Spring house panel
13. Front upper frame, inner
14. Engine mount bracket



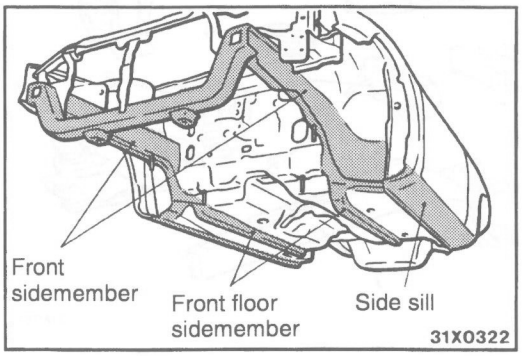
(1) The bulkhead is located inside the upper frame to improve the suspension attaching part strength.



(2) By abolishing the front end gusset, a structure whereby the end of the front sidemember absorbs shocks caused during low-speed impacts has been adopted.



(3) A structure has been adopted in which the front of the front sidemember has been straightened so that shocks received during an impact are absorbed in turn by the front and rear of the sidemembers.

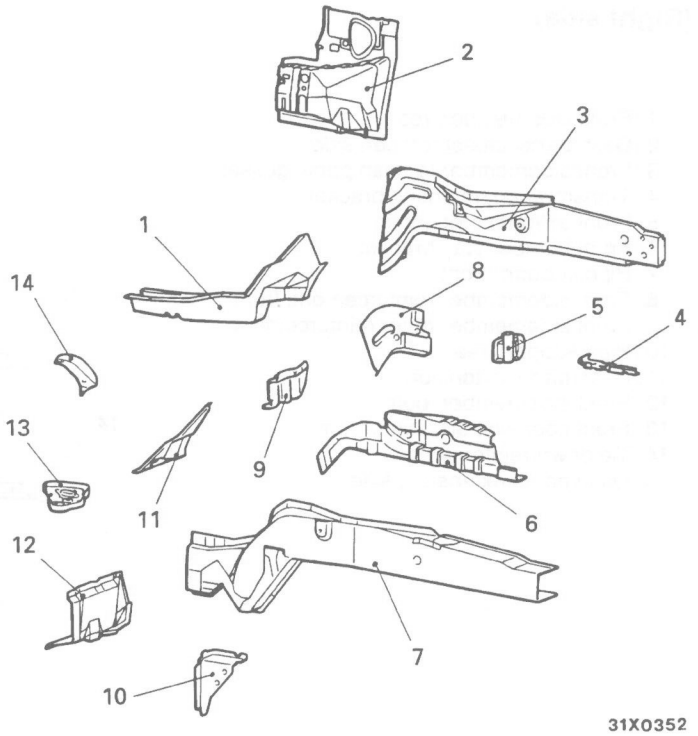


(4) A perimeter structure whereby the front sidemember and side sill are continuous has been adopted. Because of this, shocks caused during highspeed impacts are dispersed from the front sidemember to the side sill and front floor sidemember and are absorbed. This results in a reduction of the effects received inside the passenger compartment, thereby improving safety.

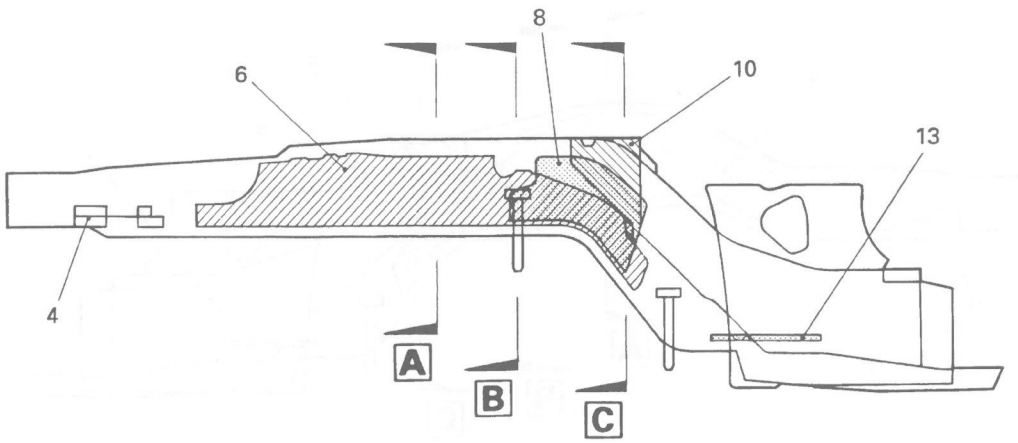
FRONT SIDEMEMBER REINFORCEMENTS

(Left side)

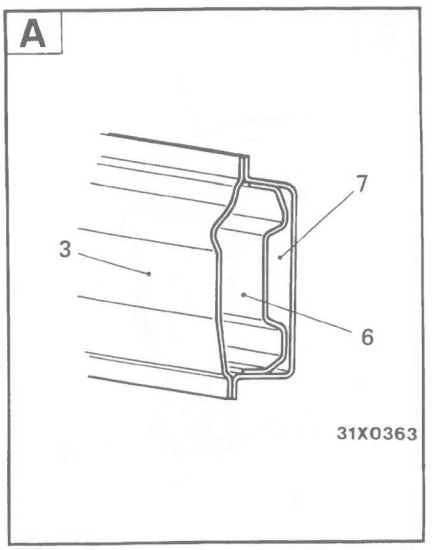
1. Front sidemember, rear
2. Front floor side sill, inner, front
3. Front sidemember, outer
4. Front bumper stay bracket
5. Pipe support, front
6. Front sidemember reinforcement, front
7. Front sidemember, inner
8. Front sidemember outer reinforcement
9. Pipe support, rear
10. Front sidemember to dash panel gusset
11. Dash panel extension
12. Dash panel crossmember, side
13. Tie down reinforcement
14. Dash panel extension, side



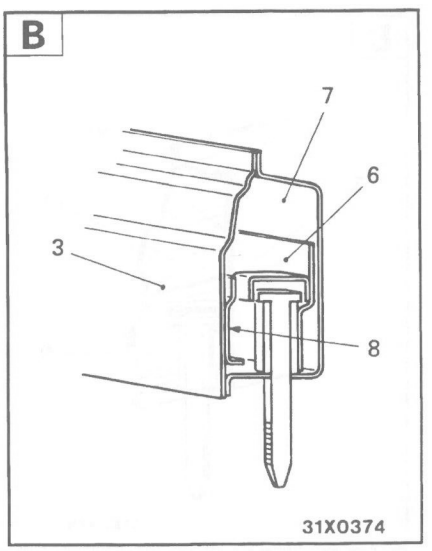
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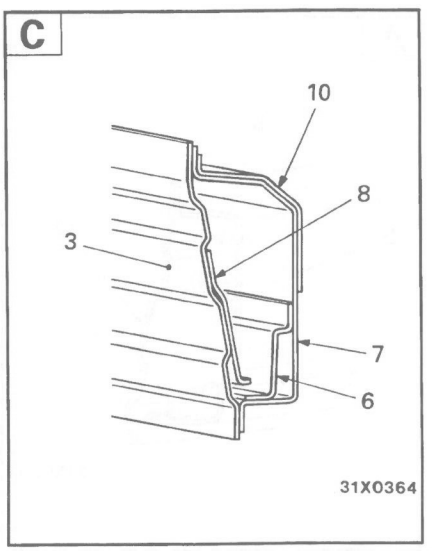
31X0313



31X0363



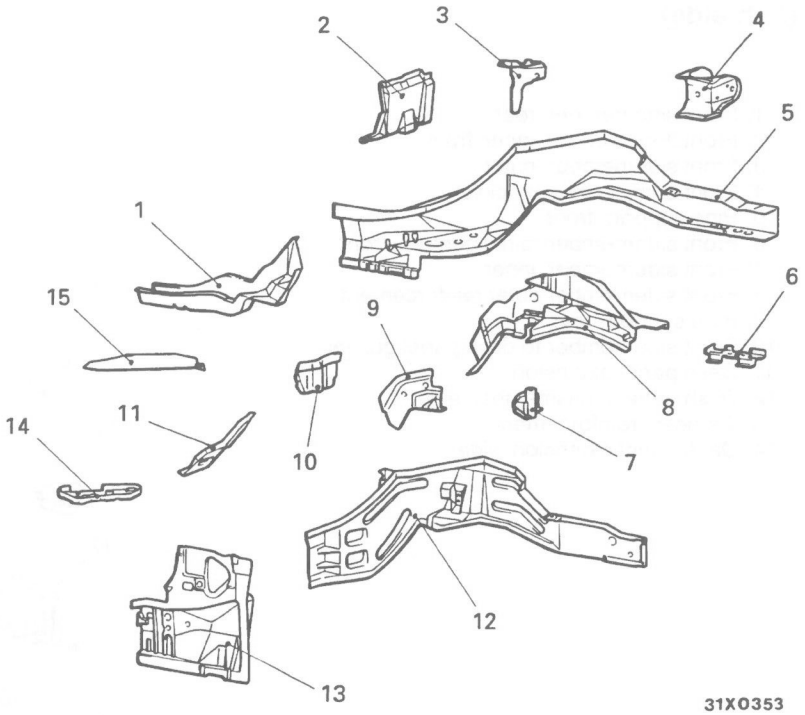
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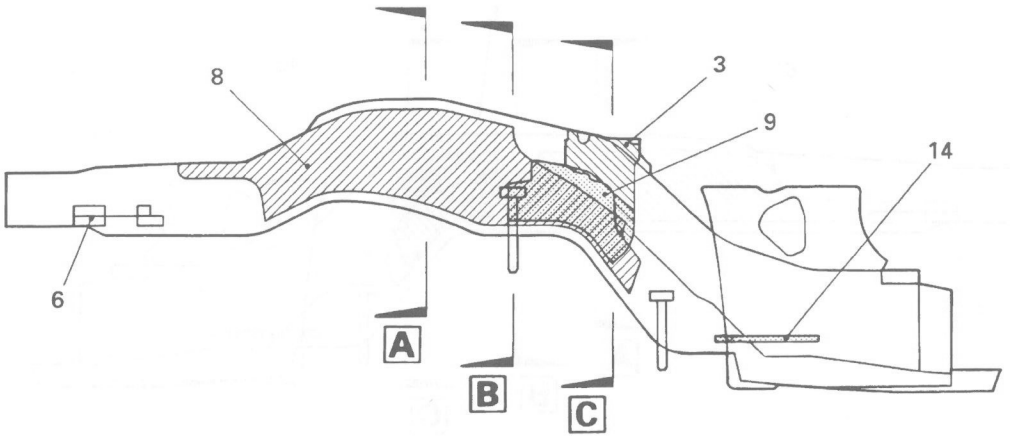
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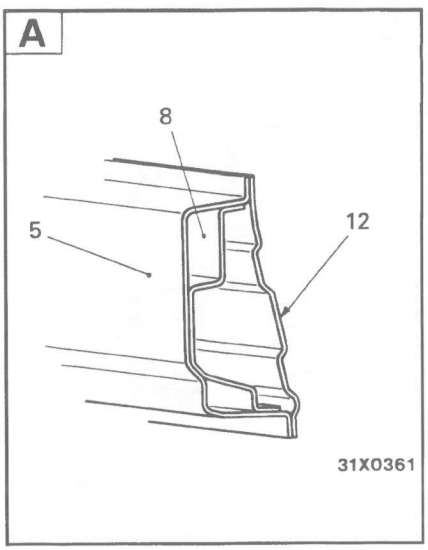
1. Front sidemember, rear
2. Dash panel crossmember, side
3. Front sidemember to dash panel gusset
4. Transmission mounting bracket
5. Front sidemember, inner
6. Front bumper stay bracket
7. Pipe support, front
8. Front sidemember reinforcement, front
9. Front sidemember outer reinforcement
10. Pipe support, rear
11. Dash panel extension
12. Front sidemember, outer
13. Front floor side sill, inner, front
14. Tie down reinforcement
15. Dash panel extension, side



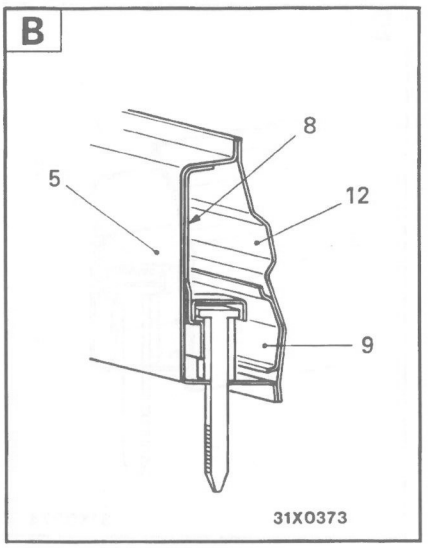
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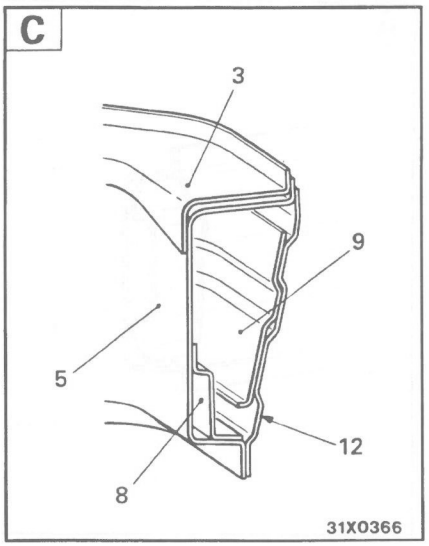
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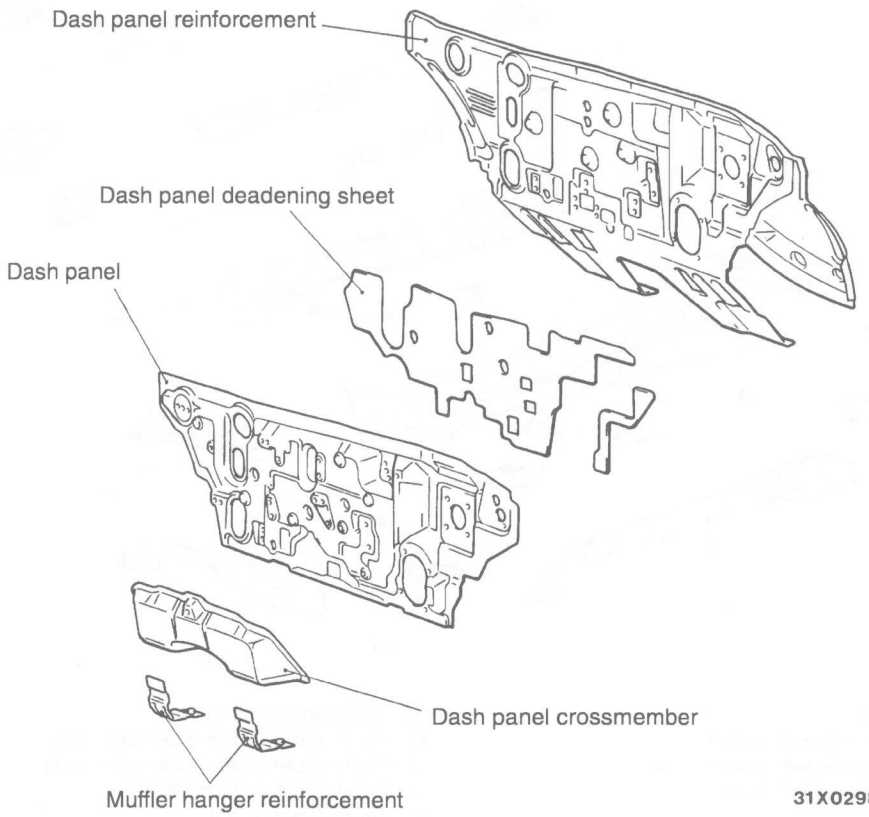


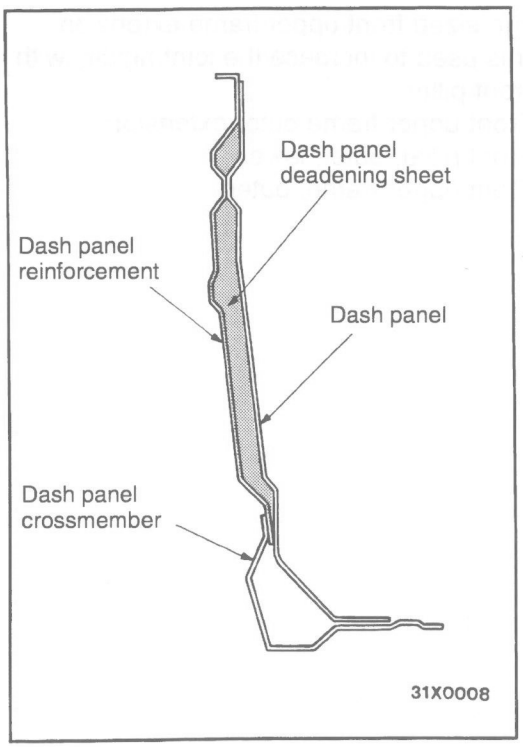
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31X0366

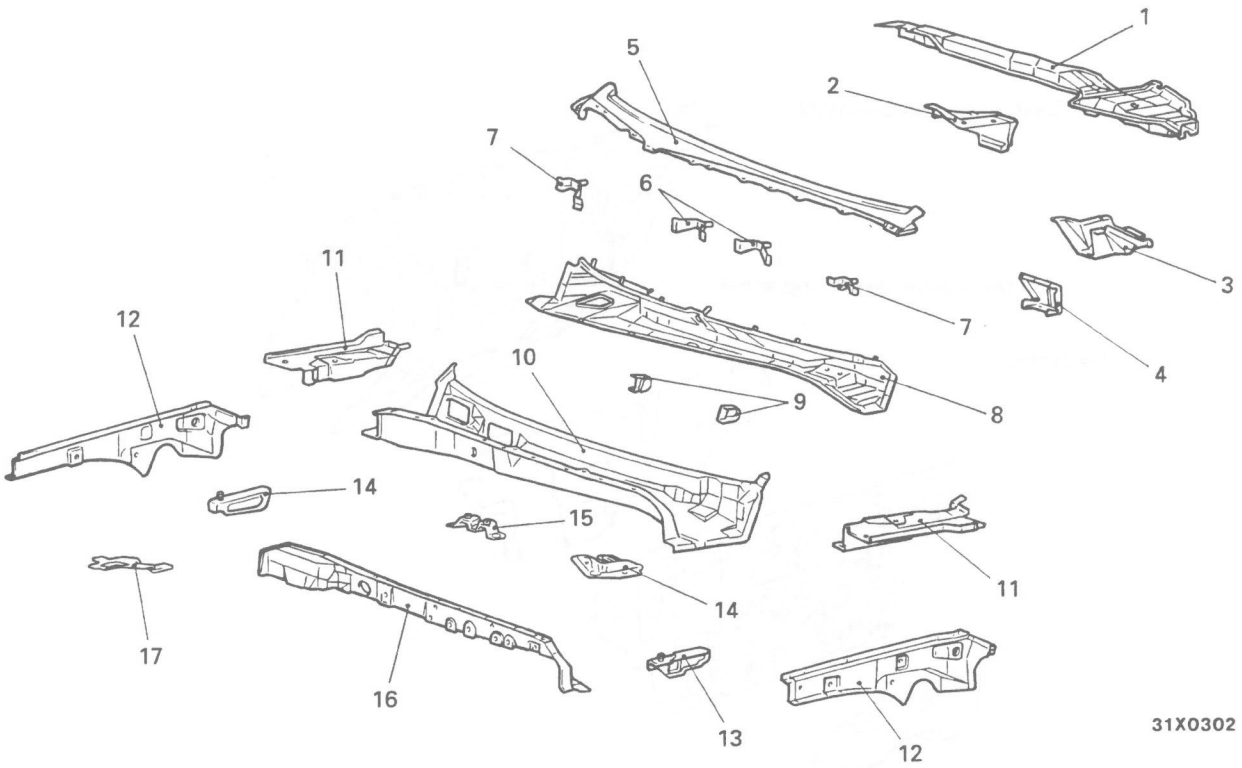
DASH PANEL



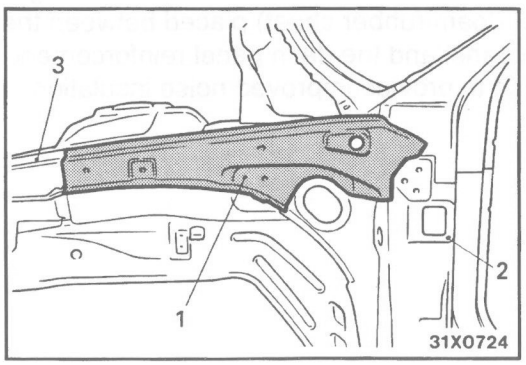


(1) A double-wall construction with a deadening sheet (foam rubber sheet) placed between the dash panel and the dash panel reinforcement is used to provide improved noise insulation.

FRONT DECK



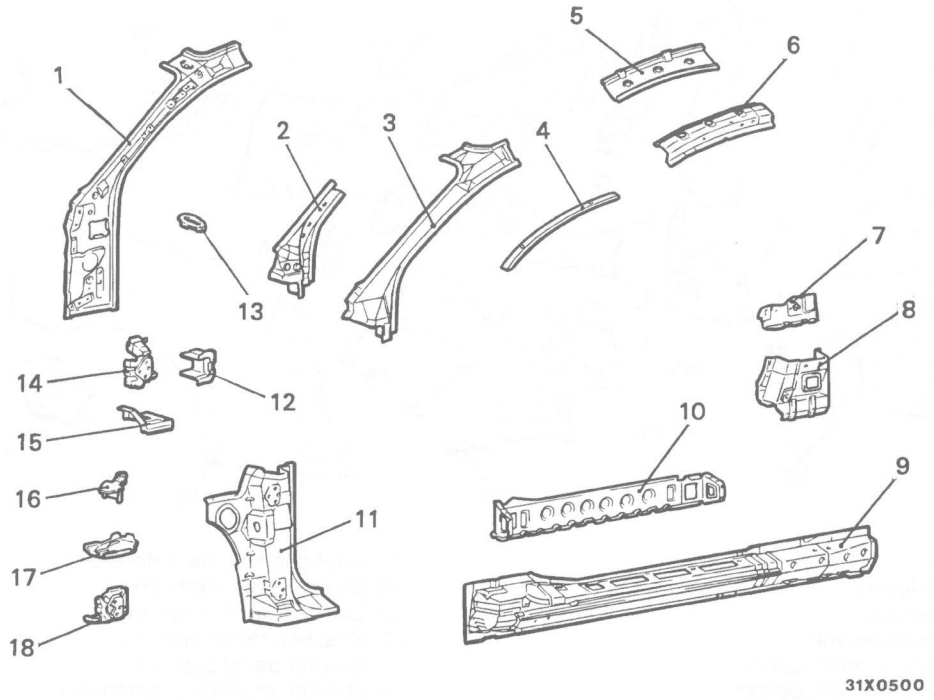
1. Front deck crossmember
2. Steering column support bracket. upper
3. Steering column support bracket. lower
4. Steering column support bracket. front
5. Cowl top panel. outer
6. Heater bracket
7. Instrument panel bracket. side
8. Cowl top crossmember. rear
9. Cowl top crossmember rear bulkhead
10. Cowl top panel. inner
11. Front upper frame extension. inner
12. Front upper frame extension. outer
13. Hood hinge reinforcement
14. Wiper bracket (D)
15. Wiper bracket (B)
16. Cowl top crossmember. front
17. Front deck corner gusset



(1) A large-sized front upper frame extension outer is used to increase the joint rigidity with the front pillar.
   1. Front upper frame outer extension
   2. Front pillar, outer, lower
   3. Front upper frame, outer

SIDE BODY

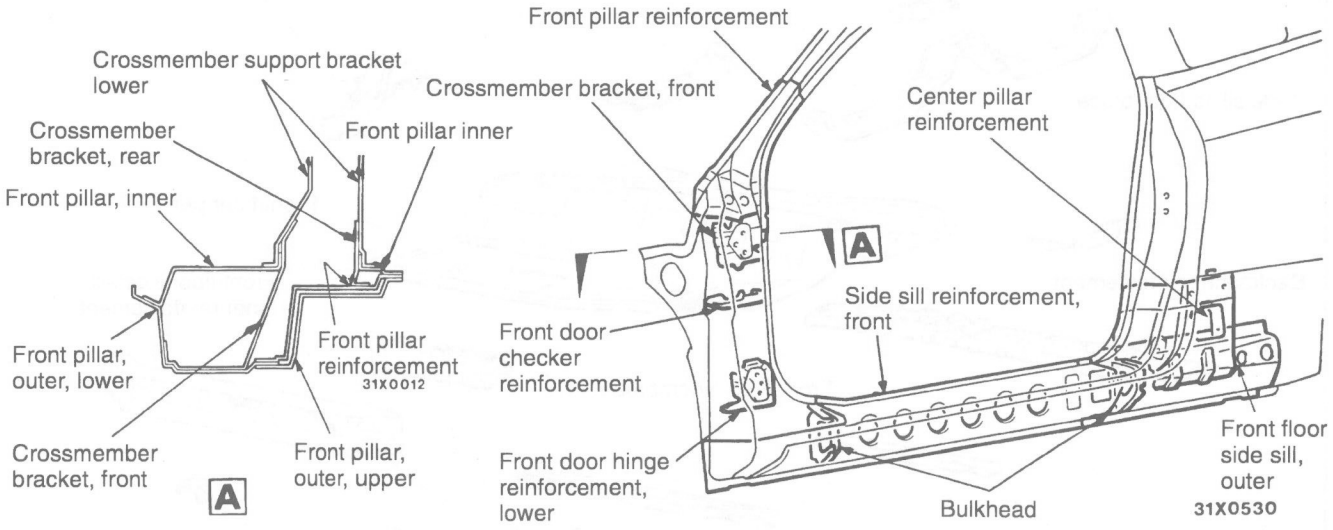
FRONT SIDE STRUCTURE



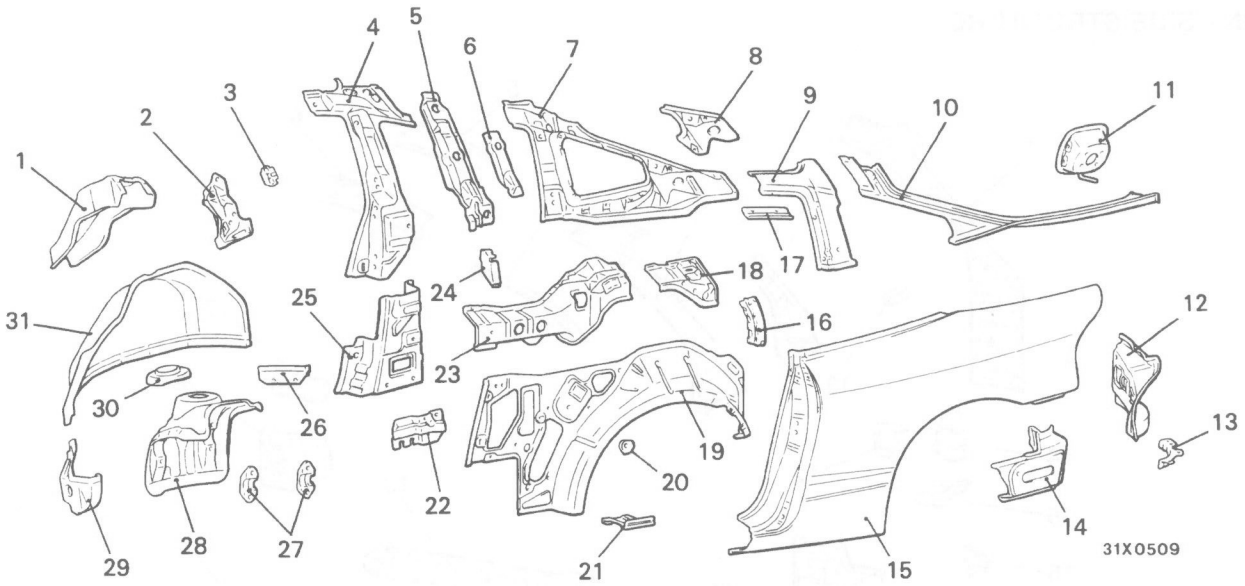
1. Front pillar, inner
2. Front pillar reinforcement
3. Front pillar, outer, upper
4. Drip channel, front
5. Side roof rail, inner
6. Side roof rail, outer
7. Seat belt anchor reinforcement
8. Center pillar reinforcement extension
9. Front floor side sill, outer
10. Side sill reinforcement, front
11. Front pillar, outer, lower
12. Crossmember bracket, rear
13. Front pillar bulkhead, lower
14. Crossmember bracket, front
15. Crossmember support, lower
16. Door checker bracket
17. Front door checker reinforcement
18. Front door hinge reinforcement, lower

FRONT SIDE STRUCTURE REINFORCEMENTS

(1) The front floor side sill outer functions as a reinforcement inside the quarter panel. The center pillar reinforcement extension. which are attached above it, improves resistance in the event of a side collision.
(2) The deck crossmember passes through the inside of the front pillar to provide improved steering support rigidity while also improving flexural and torsional rigidity.



REAR SIDE STRUCTURE

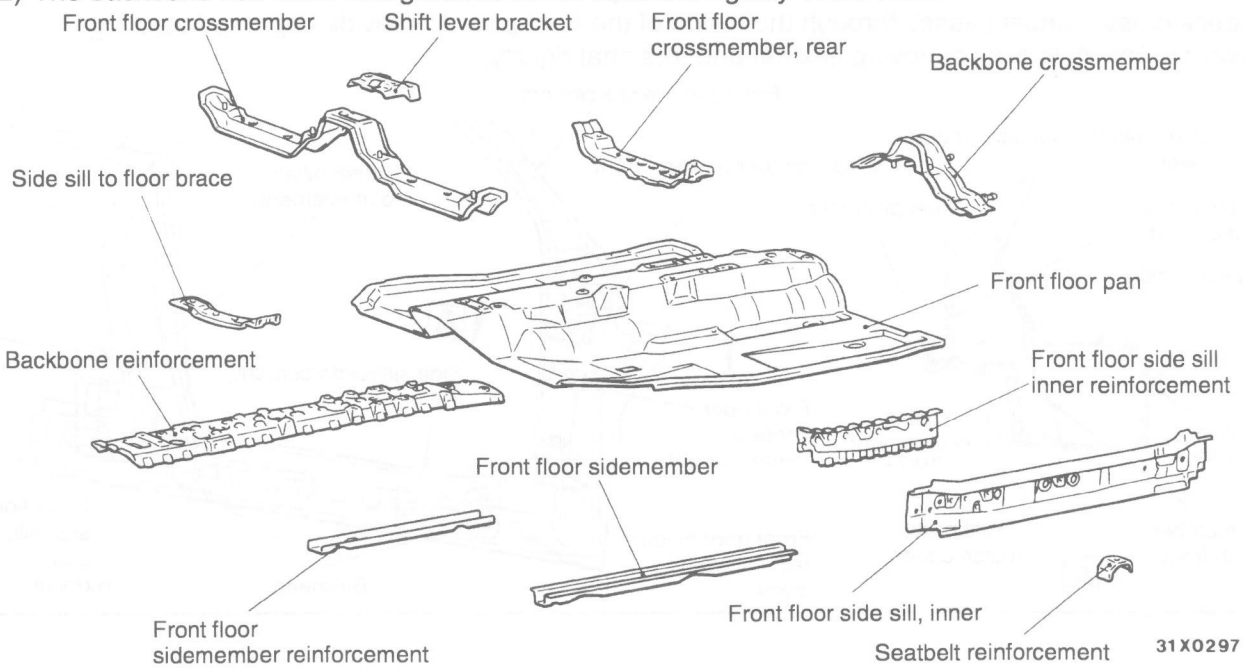


1. Rear shelf brace
2. Seat back brace lower
3. Center pillar bulkhead
4. Center pillar reinforcement
5. Center pillar reinforcement, upper
6. Center pillar reinforcement, center
7. Quarter panel inner, upper
8. Seatbelt reinforcement, rear pillar
9. Center pillar outer
10. Quarter panel outer upper
11. Fuel filler neck bracket
12. Rear lamp bracket
13. Rear fascia bracket, side
14. Quarter outer extension
15. Quarter panel, outer, lower
16. Quarter outer reinforcement
17. Roof drip channel extension
18. Quarter inner extension
19. Quarter panel, inner lower
20. Seat belt reinforcement
21. Quarter panel support
22. Quarter inner lower extension
23. Belt line reinforcement
24. Belt line bulkhead
25. Center pillar reinforcement, lower
26. Shield plate, rear
27. Upper arm reinforcement, rear
28. Spring house panel
29. Shield plate, front
30. Rear spring house bracket
31. Rear wheel house panel, inner

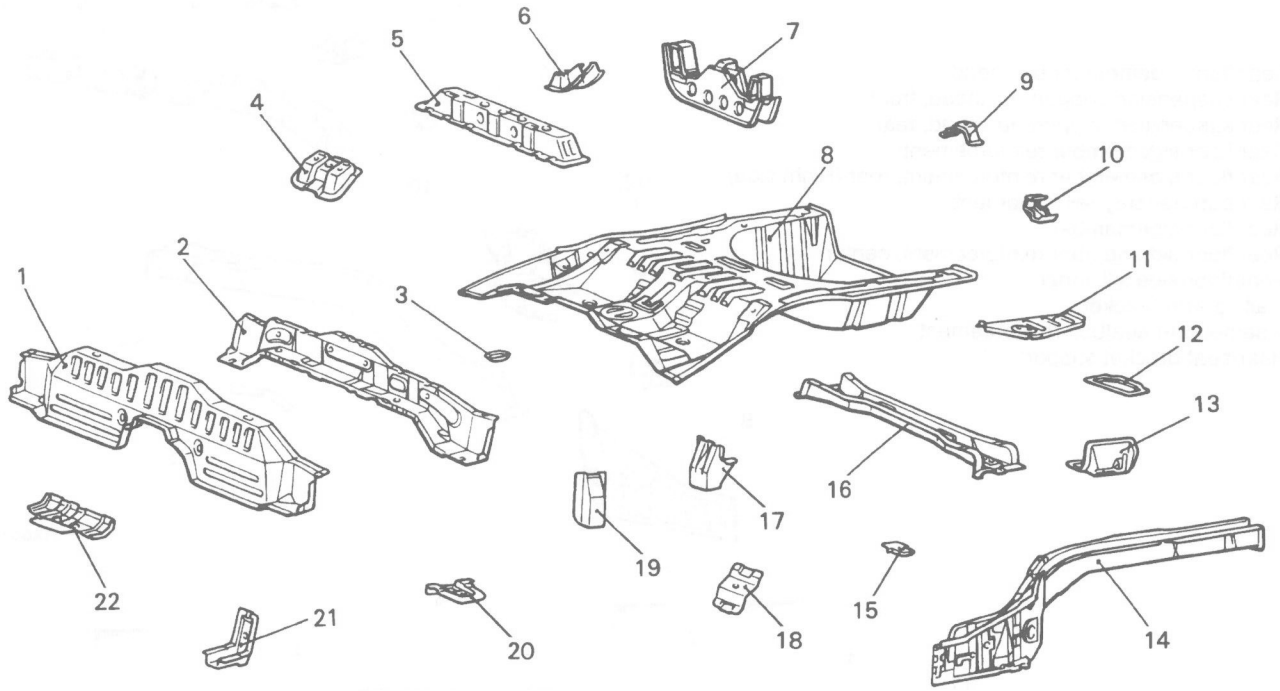
UNDER BODY

FRONT FLOOR

(1) A beadless floor pan has been used as a front floor to reduce the air resistance of under floor.
(2) The backbone has been straightened to increase the rigidity of the floor.

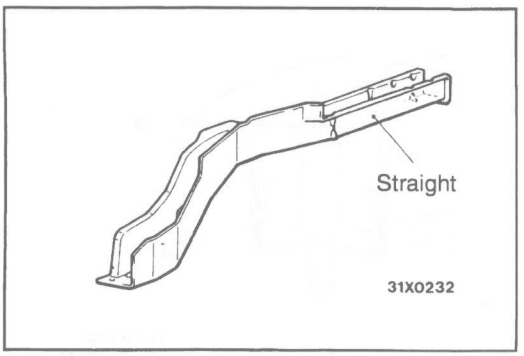


REAR FLOOR



1. Rear seat crossmember, front
2. Rear seat crossmember, rear
3. Fuel tank support reinforcement
4. Split seat bracket
5. Rear floor crossmember, upper, rear
6. Rear floor crossmember extension
7. Rear floor pan crossmember
8. Rear floor pan
9. Spare tyre support
10. Jack bracket
11. Rear floor side brace
12. Garage jack bracket
13. Shipping bracket
14. Rear floor sidemember
15. Rear seat bracket support
16. Rear floor crossmember, lower
17. Fuel tank support bracket, rear
18. Seat belt rear floor reinforcement
19. Fuel tank bracket, rear
20. Fuel tank bracket, front
21. Front floor sidemember extension
22. Muffler hanger reinforcement centre

31X0477

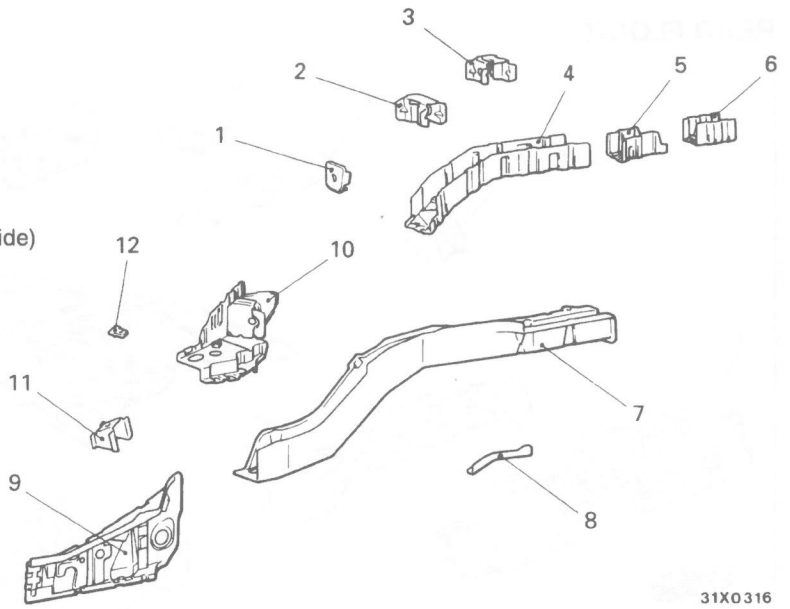


Rear floor sidemember

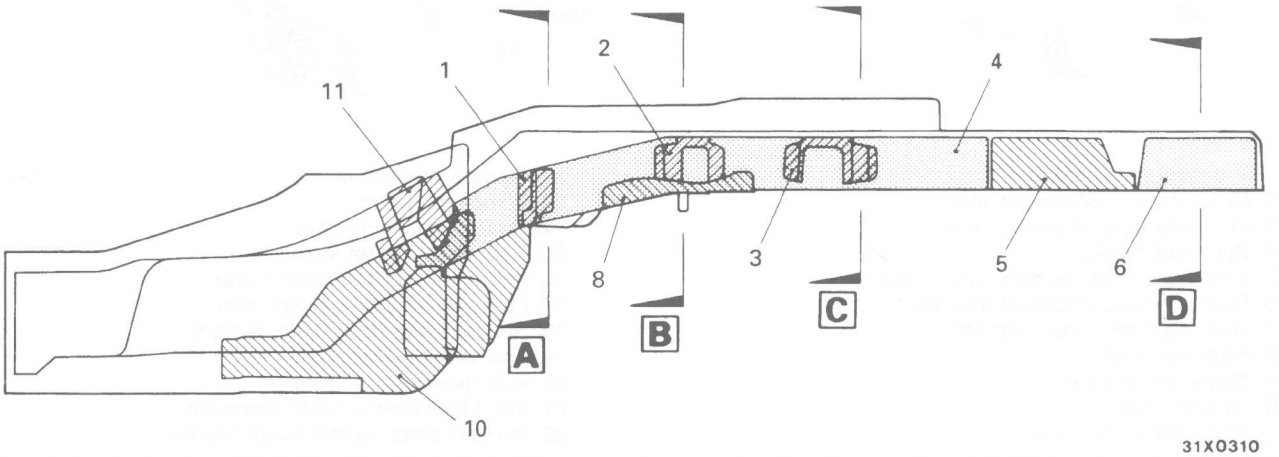
A structure has been adopted in which the rear of the rear floor sidemember has been straightened to improve the absorption of shocks received during an impact.

REAR FLOOR SIDEMEMBER

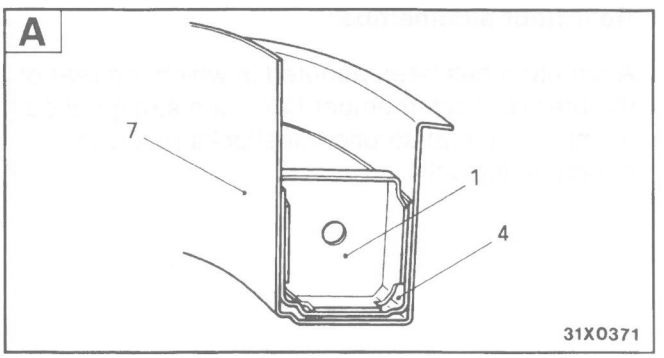
1. Rear floor sidemember bulkhead
2. Rear suspension support bulkhead, front
3. Rear suspension support bulkhead, rear
4. Rear floor sidemember reinforcement
5. Rear floor sidemember reinforcement, rear (Right side)
6. Rear bumper stay reinforcement
7. Rear floor sidemember
8. Rear floor sidemember reinforcement, center
9. Rear floor side sill, inner
10. Trailing arm bracket
11. Sidemember seatbelt reinforcement
12. Rear seat bracket support



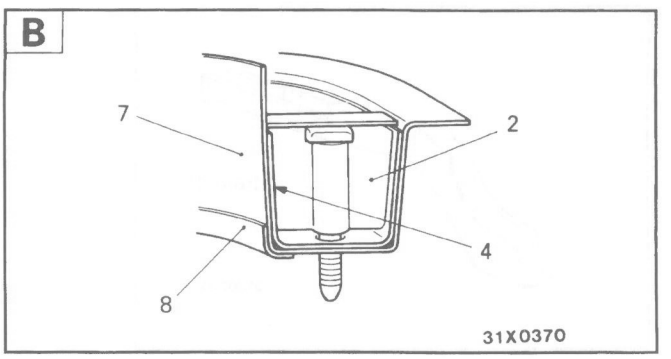
31X0316



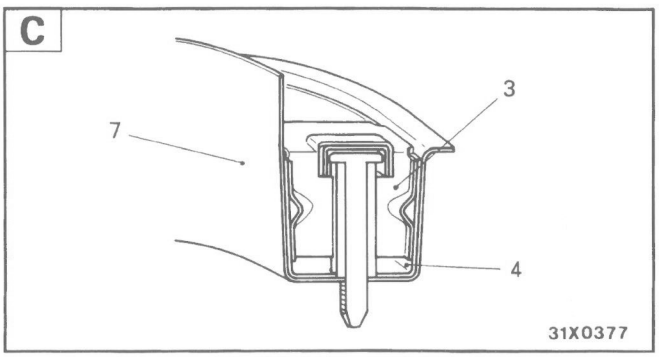
31X0310



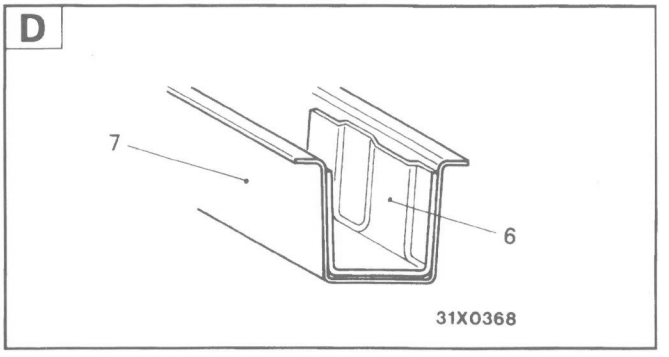
31X0371



31X0370



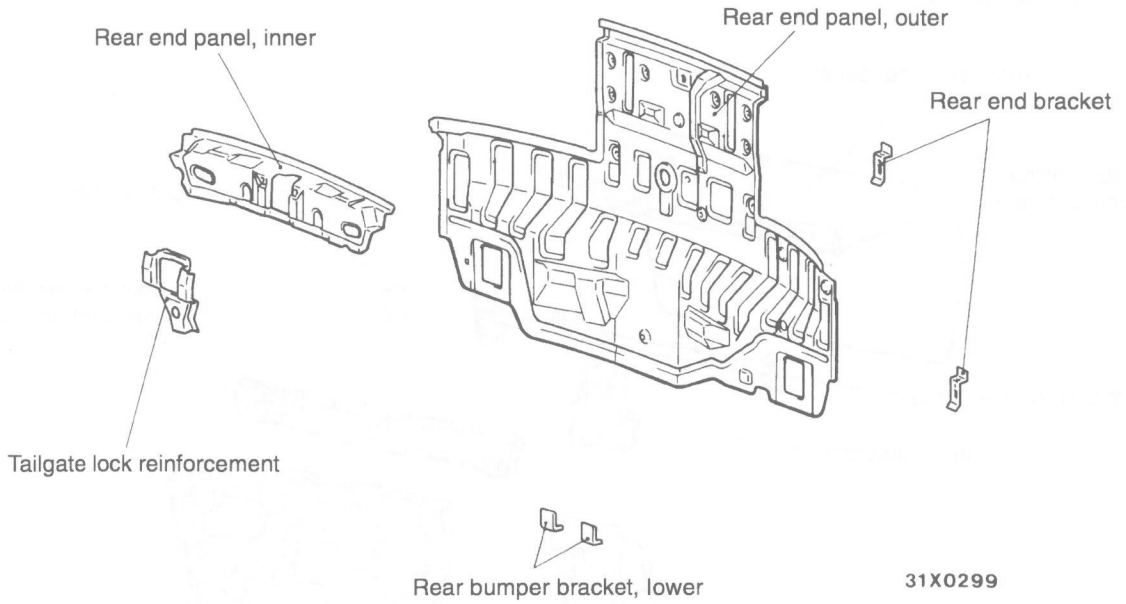
31X0377



31X0368

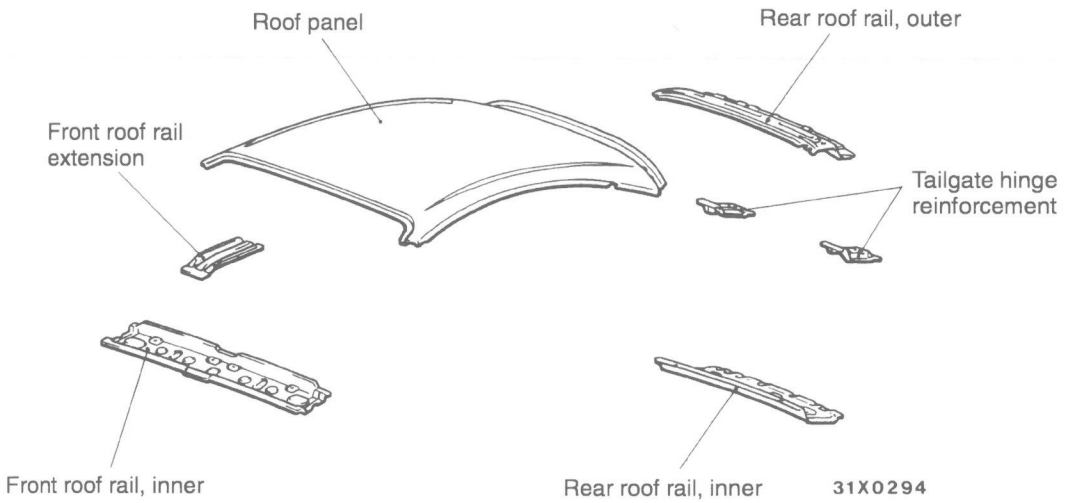
REAR BODY

REAR END PANEL

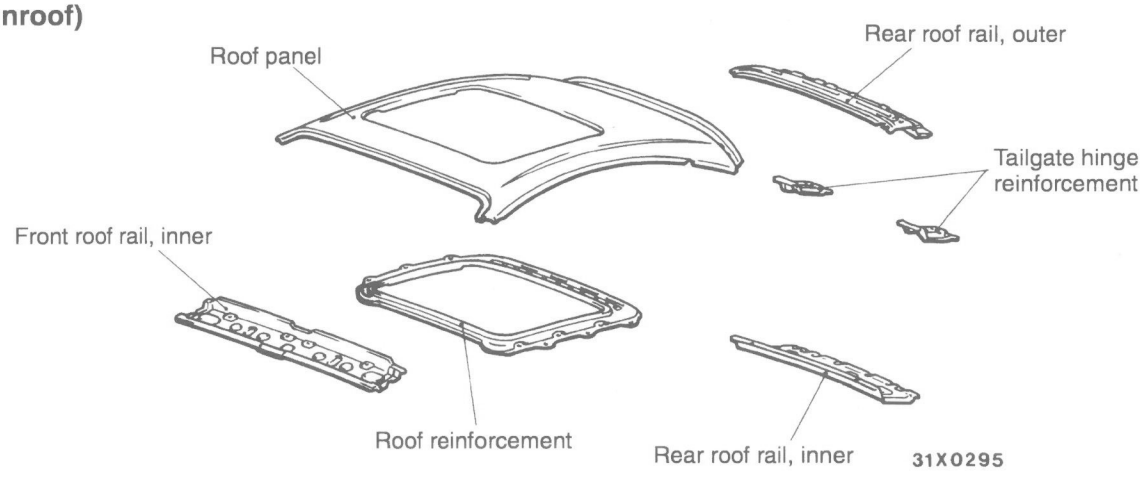


ROOF

(Standard roof)

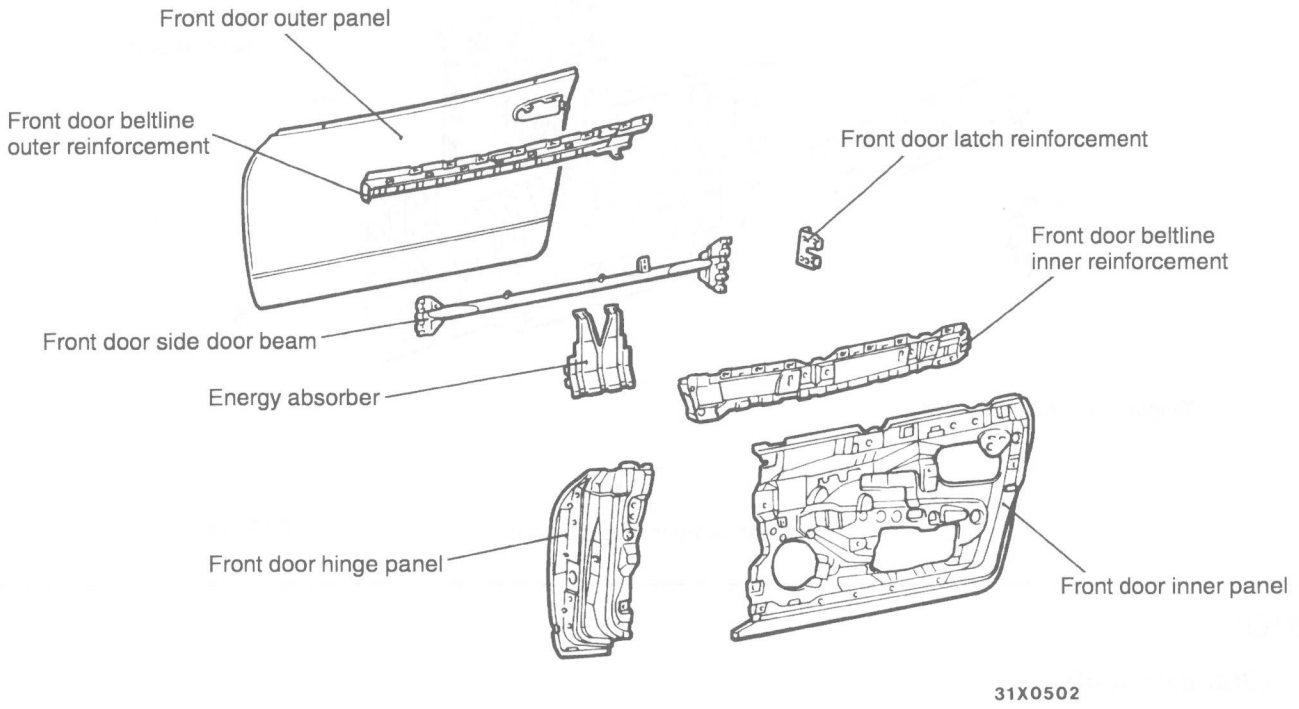


(Sunroof)



DOOR

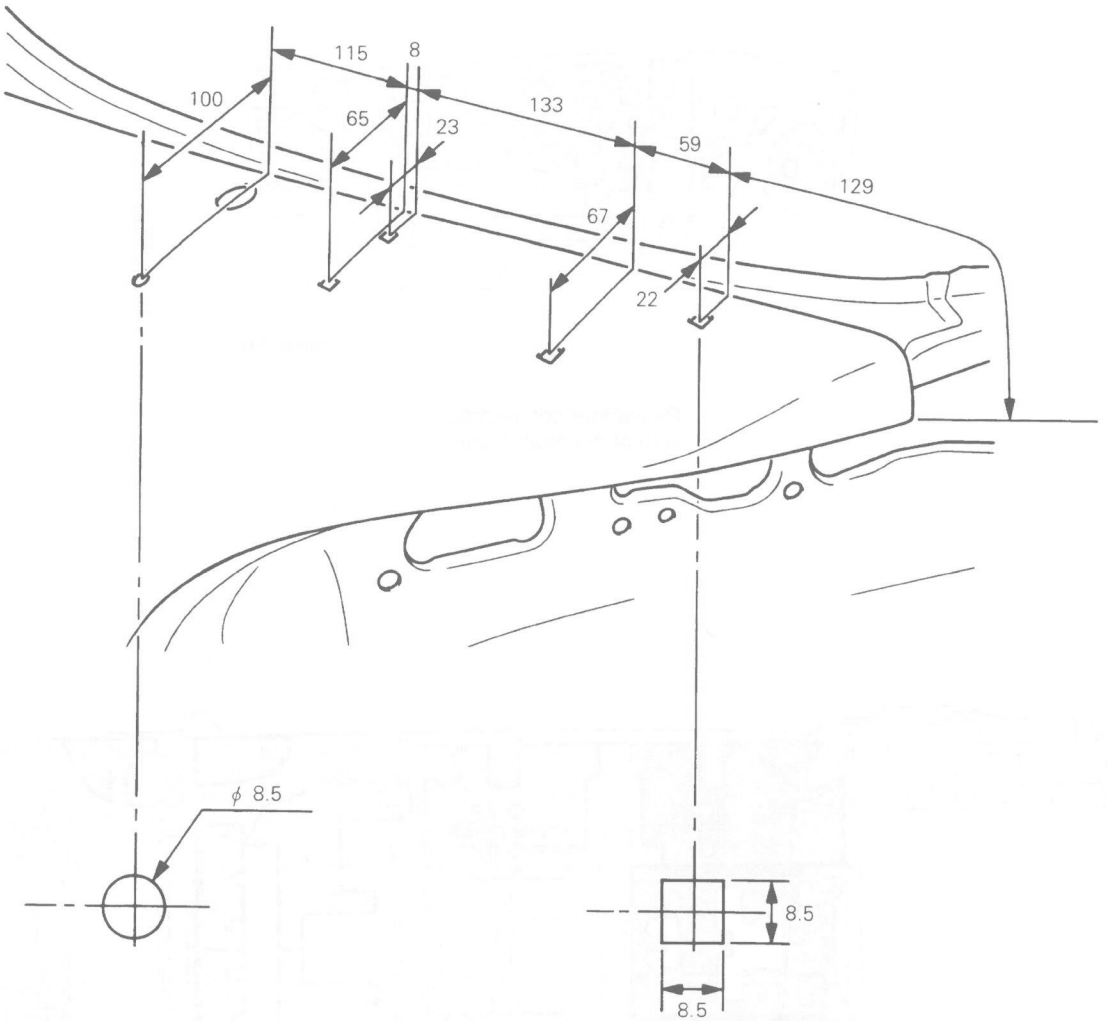
For the safety of passengers in the event of a side impact, a reinforcement (side door beam) has been installed inside the doors.



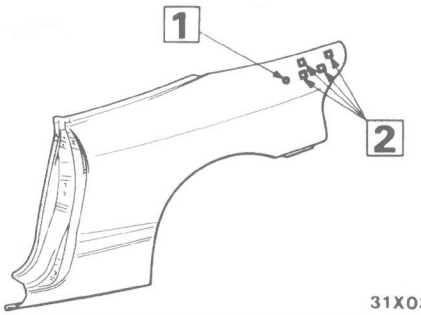
NOTES REGARDING PANEL REPLACEMENT

Some accessory parts are not equipped with holes for installation. When replacing such panels, make mounting holes to correspond to the installed parts.

QUARTER PANEL, OUTER, LOWER



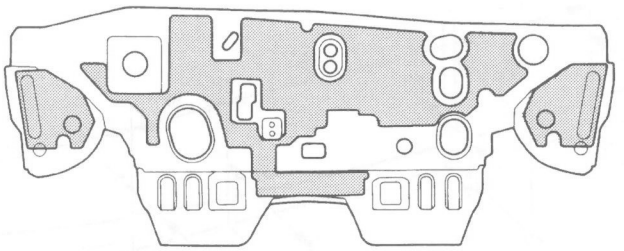
31X0306

Illustration	Hole name	Hole shape - Size mm
 31X0326	1 Rear spoiler installation hole 2 Rear spoiler installation hole	○ - 8.5 □ - 8.5

SILENCER APPLICATION LOCATIONS

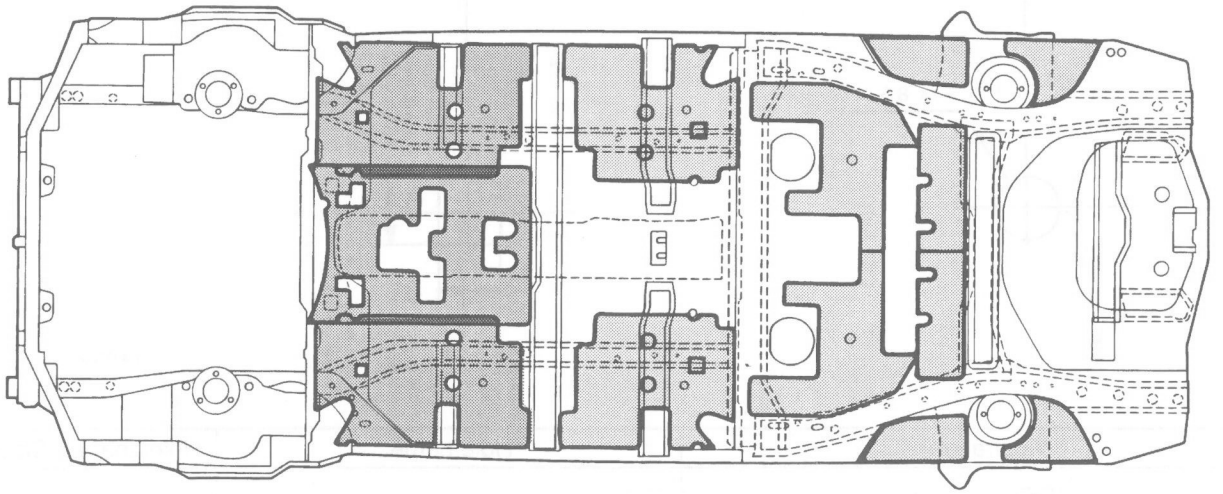
In order to reduce vibration and screen out heat from the exhaust gas, silencers (melting sheets) are applied to the top of the floor and to the passenger compartment side of the dash panel.

If the silencers come off during welded panel replacement or other repairs, cut the replacement parts in the shapes indicated and apply them in the appropriate locations.



31X0220

Passenger compartment side of the dash panel

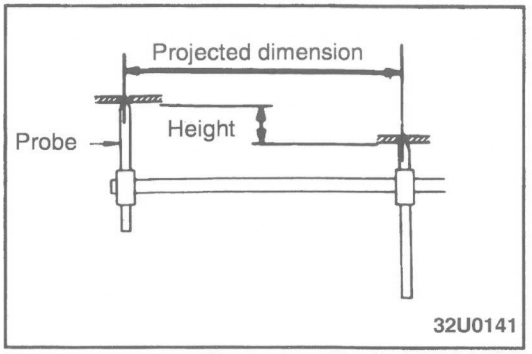


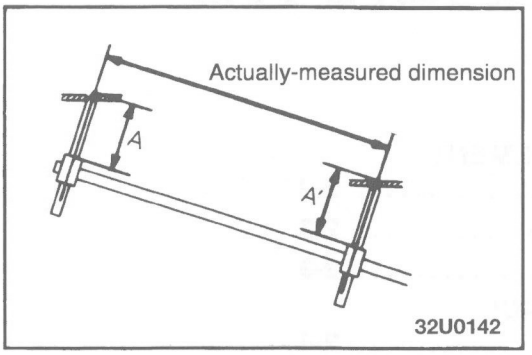
31X0526

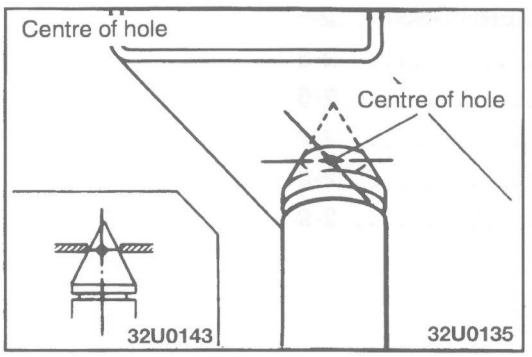
: 1.6 mm thick
: 3.2 mm (two layers of 1.6 mm) thick silencer

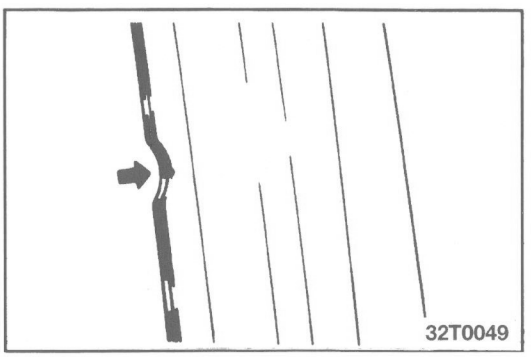
2 BODY DIMENSIONS

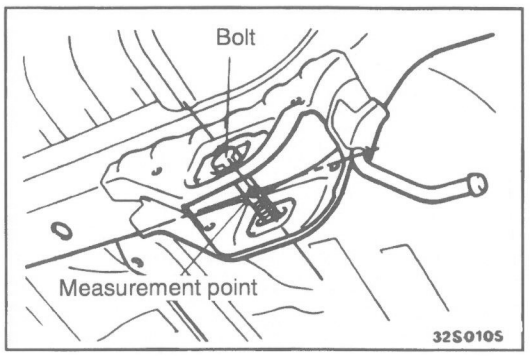
BODY DIMENSIONS AND MEASUREMENT METHODS 2-2
TYPE A (PROJECTED DIMENSIONS) 2-3
UNDER BODY 2-3
SUSPENSION MOUNTING SURFACE INCLINATION 2-4
TYPE B (ACTUAL-MEASUREMENT DIMENSIONS) .. 2-5
UNDER BODY 2-5
SIDE BODY 2-6
UPPER BODY 2-7
ENGINE COMPARTMENT 2-8
INTERIOR 2-9











BODY DIMENSIONS AND MEASUREMENT METHODS

STANDARD DIMENSION INDICATIONS AND MEASUREMENT METHODS

(1) Type A (projected dimensions)
Indicates the dimension when a measurement location is projected onto a plane. The difference in height of the measurement points should be taken into consideration when measuring.

(2) Type B (actual-measurement dimensions)
Indicates the actual distance between the measurement points.
Measure using a tracking gauge or a measuring tape, etc.
NOTES
- Make the lengths of the tracking gauge probes the same (A = A').
- Do not bend or twist the measuring tape.

(3) Insert the tracking gauge probes securely into the measurement holes.
(4) When the standard dimensions in the illustration are enclosed by □, this indicates that the symmetrical left and right positions have the same dimensions.

(5) When using a notch for dimension measurement, make the measuring point at the centre of the notch

(6) When measuring the suspension mounting arm or the link mounting position, use the suspension mounting bolt as the measuring point.

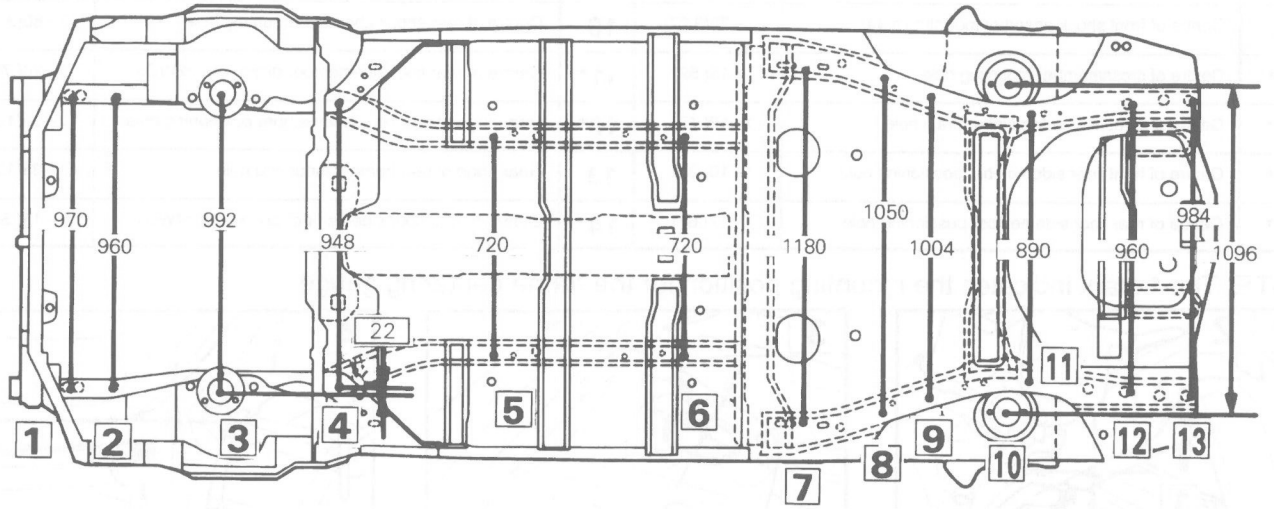
BODY CENTRE POINT

The body centre points are shown for the purpose of checking the position of the left and right symmetry locations.

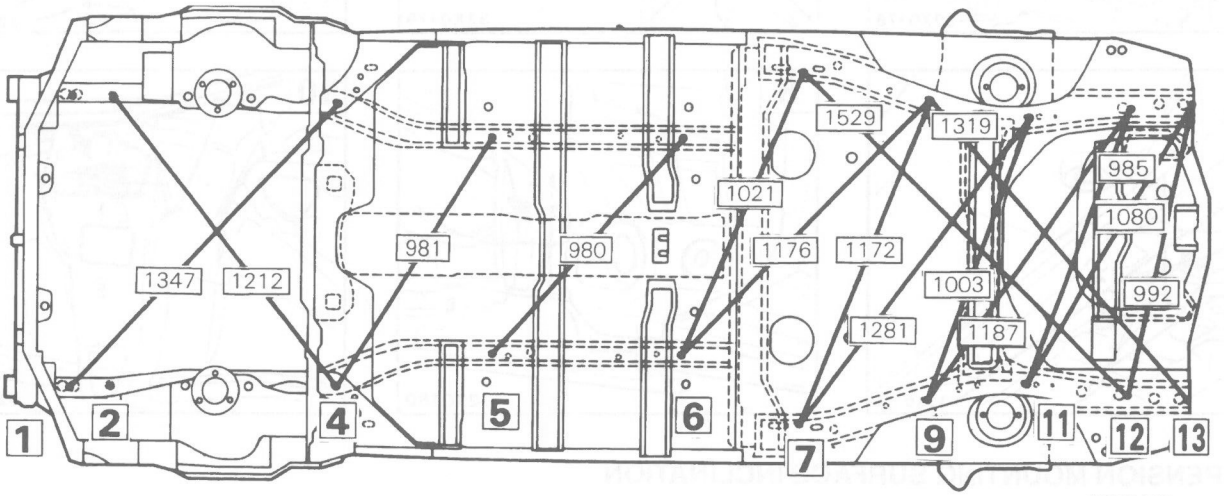
TYPE A (PROJECTED DIMENSIONS)

UNDER BODY

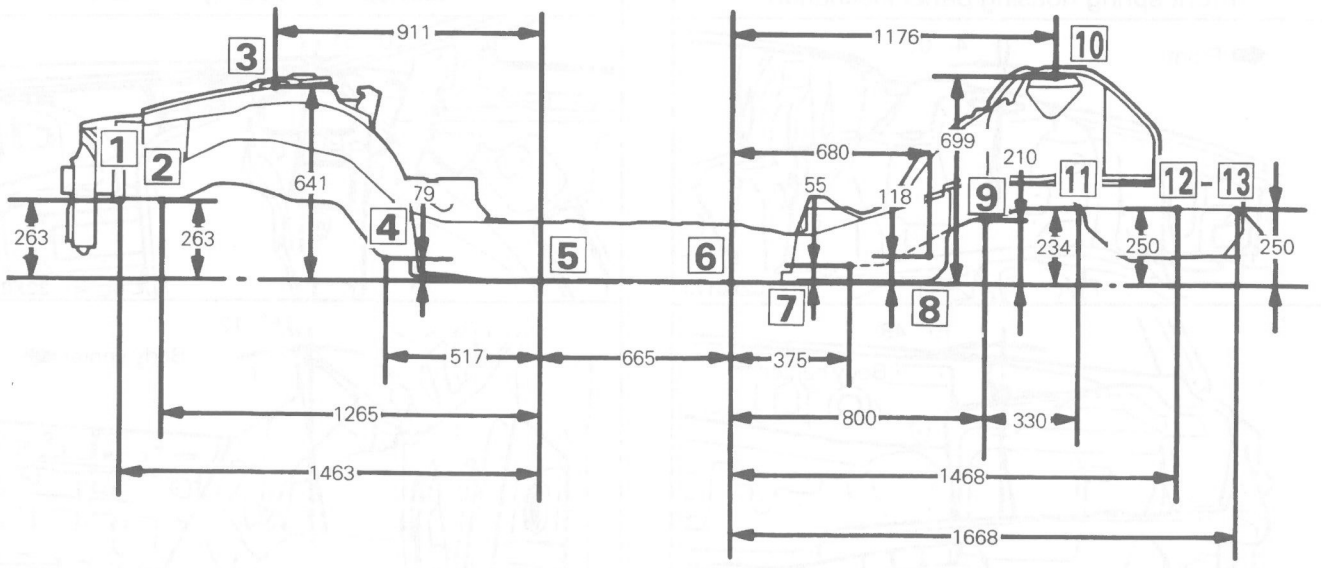
<FWD>



32X0185



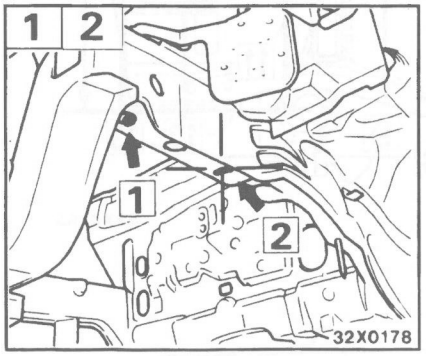
32X0190

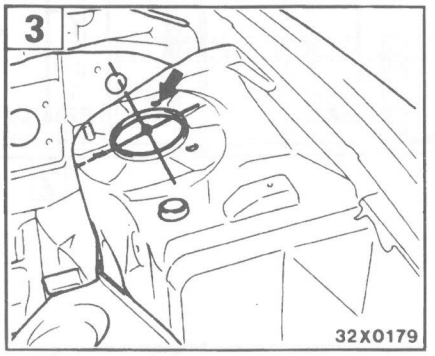


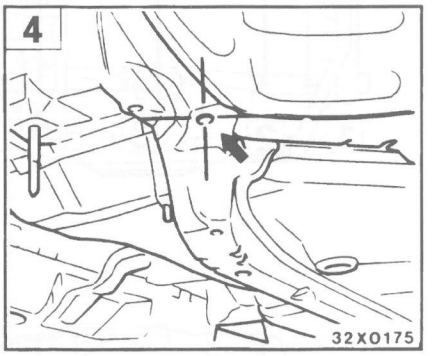
32X0186

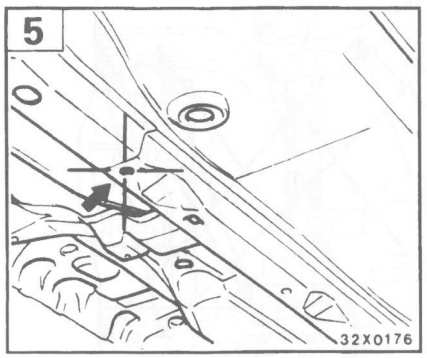
No.	Standard measurement point	Hole shape – Size mm(in.)	No.	Standard measurement point	Hole shape – Size mm(in.)
1*	Rear edge of front sidemember drain hole	○ – 35(1.38)	8	Reference point of trailing arm mounting	–
2	Centre of front sidemember positioning hole	○ – 25(98)	9	Centre of rear floor sidemember drain hole <2WD>	○ – 15(.59)
3	Centre of front shock absorber mounting hole	○ – 78(3.07)	10	Centre of rear shock absorber mounting hole	○ – 80(3.15)
4*	Centre of crossmember mounting hole	○ – 15(.59)	11*	Centre of rear floor sidemember drain hole <2WD>	○ – 20(.79)
5*	Centre of front floor sidemember drain hole	○ – 12(.47)	12*	Rear edge of rear floor sidemember positioning hole	○ – 35(1.38)
6*	Centre of front floor sidemember positioning hole	○ – 10(.39)	13	Rear edge of rear bumper mounting hole	○ – 35(1.38)
7*	Centre of rear floor sidemember positioning hole	○ – 17(.67)	14*	Centre of rear floor sidemember drain hole <4WD>	○ – 15(.59)

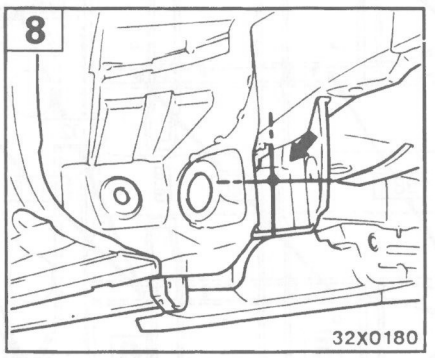
NOTE: The * mark indicates the mounting position for the frame centering gauge

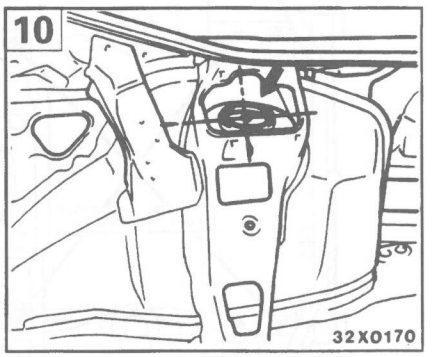






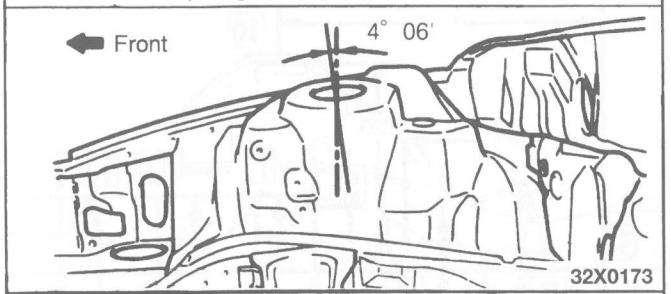


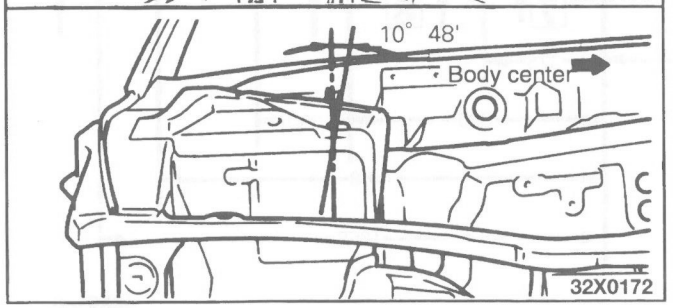




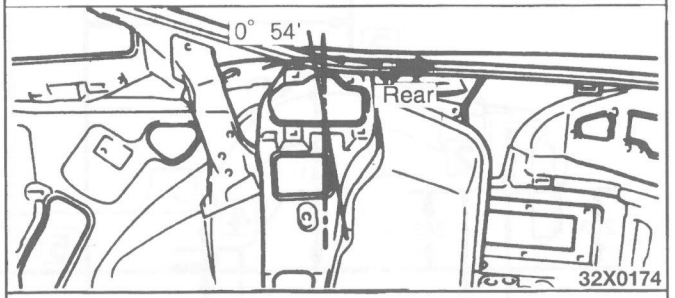
SUSPENSION MOUNTING SURFACE INCLINATION

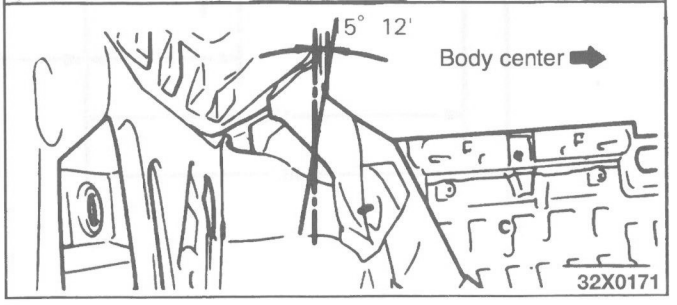
Front spring housing panel inclination





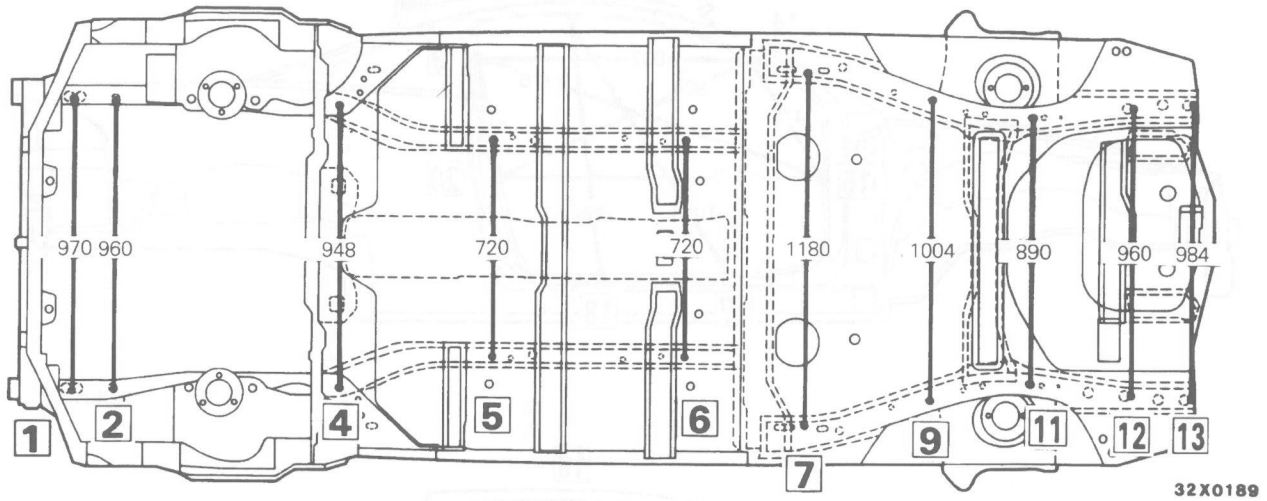
Rear spring housing Inclination

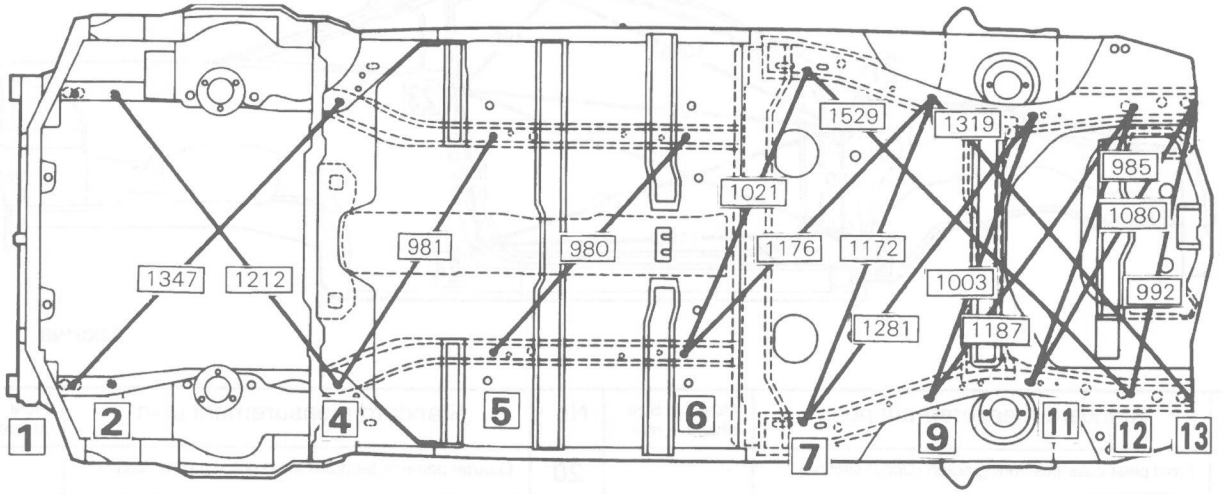




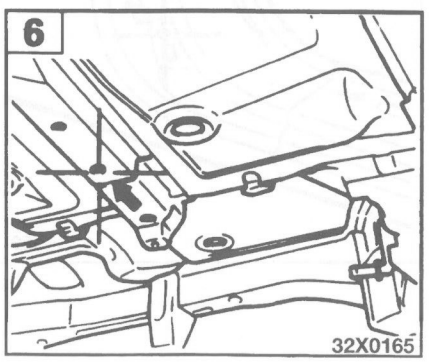
TYPE B (ACTUAL-MEASUREMENT DIMENSIONS)

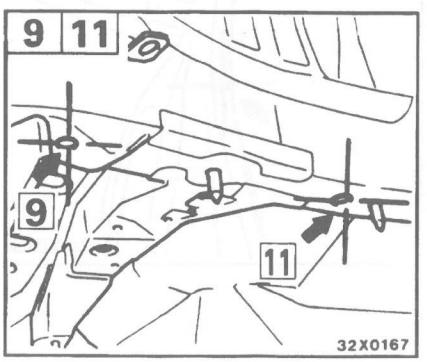
UNDER BODY

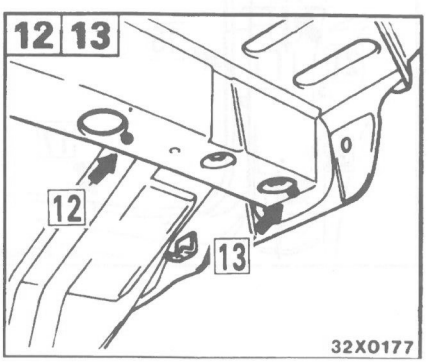




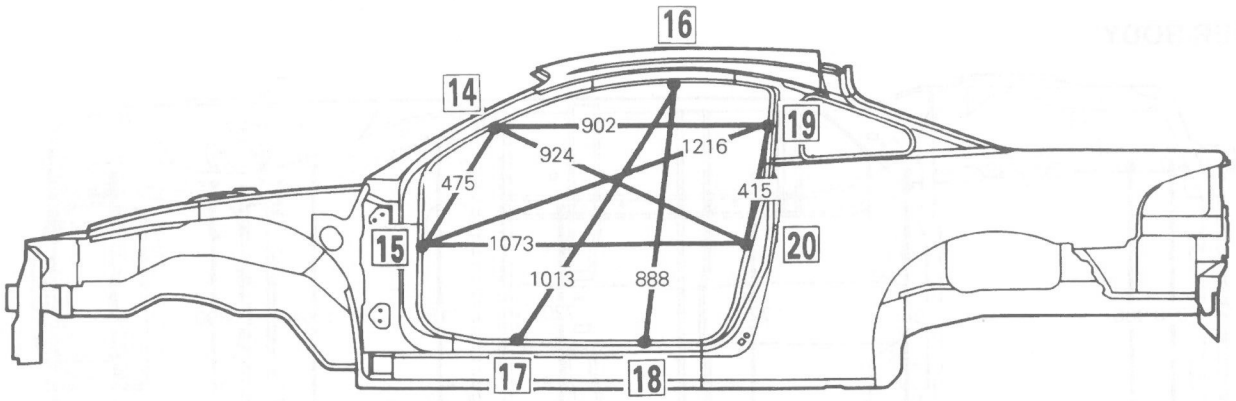
No.	Standard measurement point	Hole shape	Size mm	No.	Standard measurement point	Hole shape	Size mm
1	Rear edge of front sidemember drain hole	○	35	7	Centre of rear floor sidemember positioning hole	○	17
2	Centre of front sidemember positioning hole	○	25	9	Centre of rear floor sidemember drain hole	○	15
4	Centre of crossmember mounting hole	○	15	11	Centre of rear floor sidemember drain hole	○	20
5	Centre of front floor sidemember drain hole	○	12	12	Rear edge of rear floor sidemember positioning hole	○	35
6	Centre of front floor sidemember positioning hole	○	10	13	Rear edge of rear bumper mounting hole	○	35



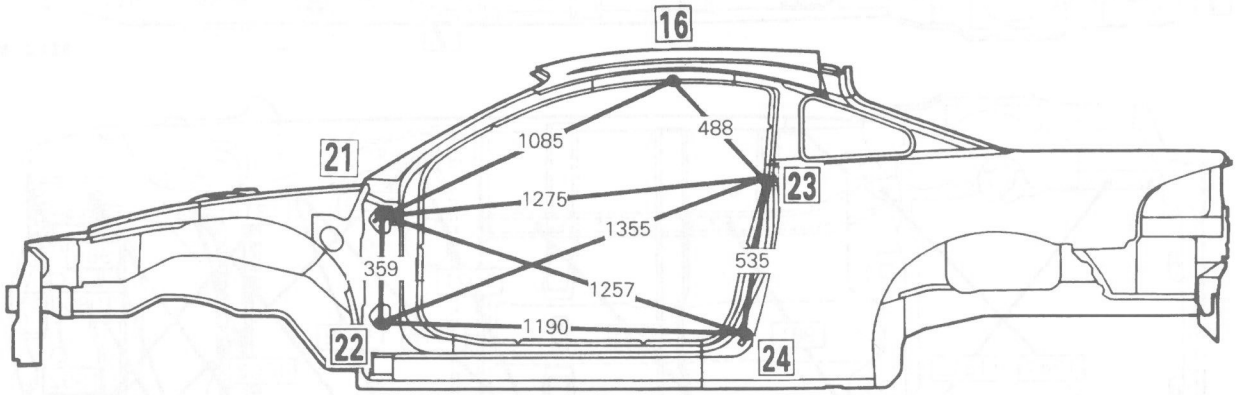




SIDE BODY

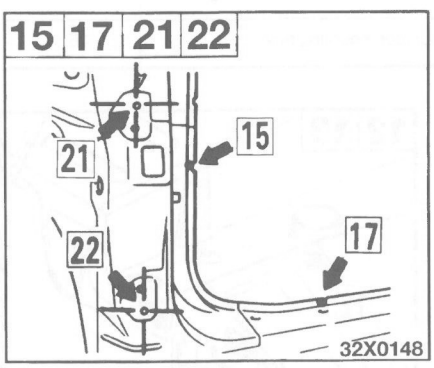


32X0197

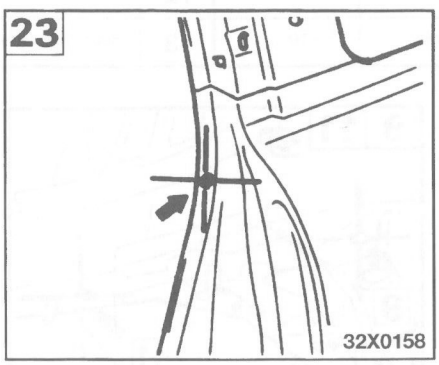


32X0198

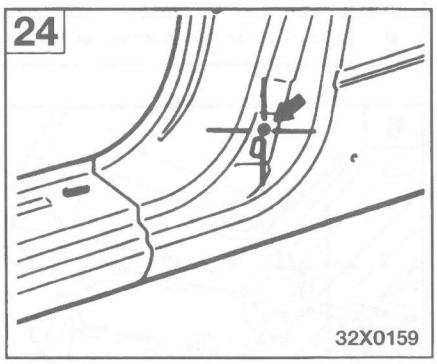
No.	Standard measurement point	Hole shape	Size mm	No.	Standard measurement point	Hole shape	Size mm
14	Front pillar outer positioning notch (Upper section)	–		20	Quarter panel outer positioning notch (Lower section)	–	
15	Front pillar outer positioning notch (Lower section)	–		21	Centre of front door hinge mounting hole (Upper section)	○	11
16	Side roof rail outer positioning notch	–		22	Centre of front door hinge mounting hole (Lower section)	○	11
17	Side sill outer positioning notch (Front section)	–		23	Quarter panel outer positioning hole	○	7
18	Side sill outer positioning notch (Rear section)	–		24	Centre of door ajar switch mounting hole	○	5
19	Quarter panel outer positioning notch (Upper section)	–					



32X0148

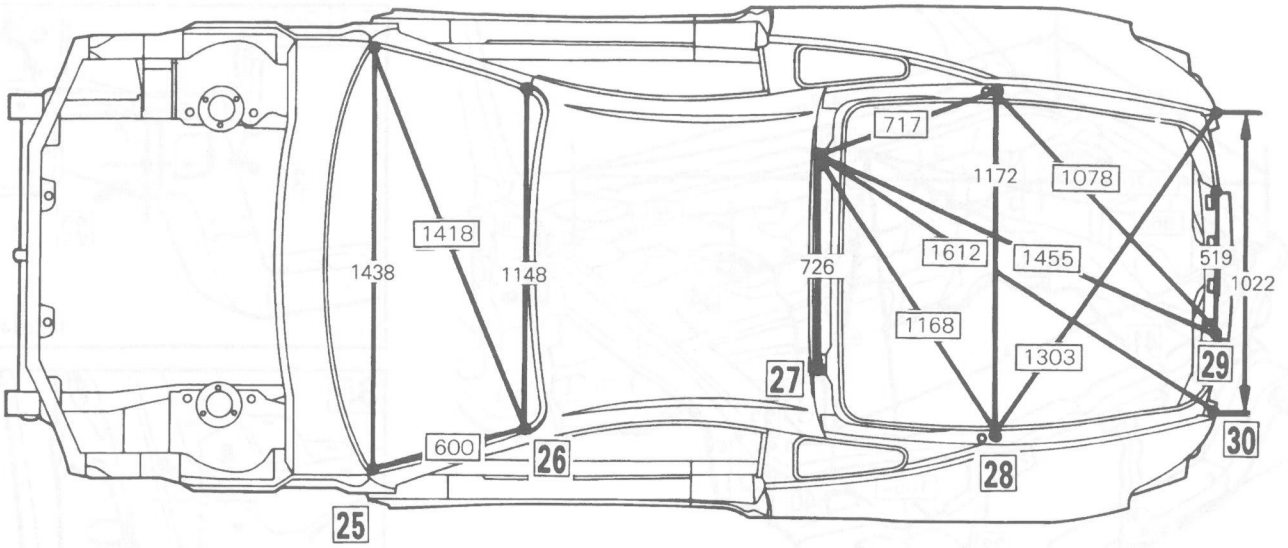


32X0158



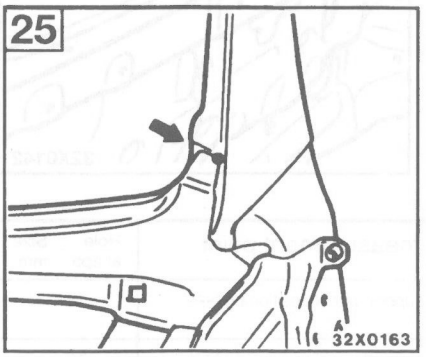
32X0159

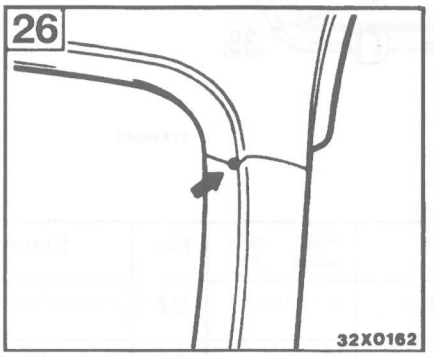
UPPER BODY

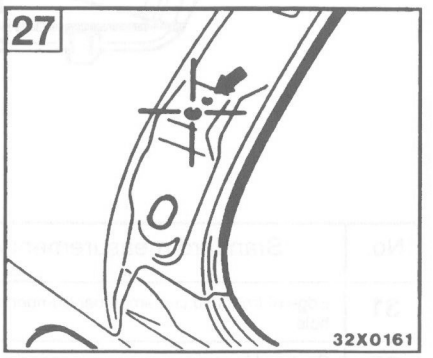


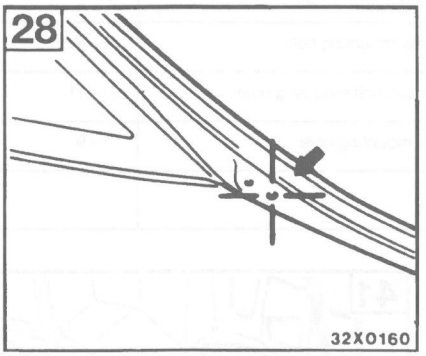
32X0196

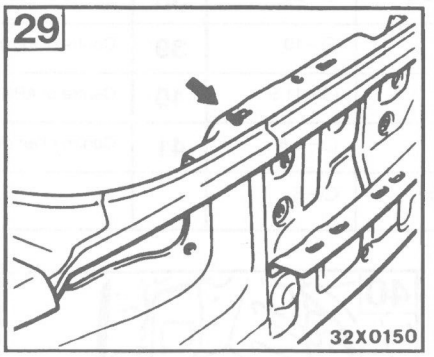
No.	Standard measurement point	Hole shape	Size mm	No.	Standard measurement point	Hole shape	Size mm
25	Front pillar lower section	–		28	Centre of tailgate gas spring mounting hole	○	9
26	Joint of front pillar and roof	–		29	Centre of rear end trim mounting hole	□	19x6
27	Centre of tailgate hinge mounting hole	○	15	30	Corner of quarter panel outer	–	

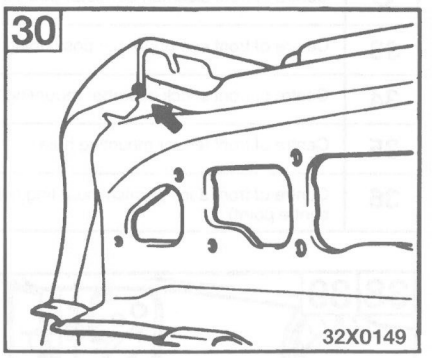




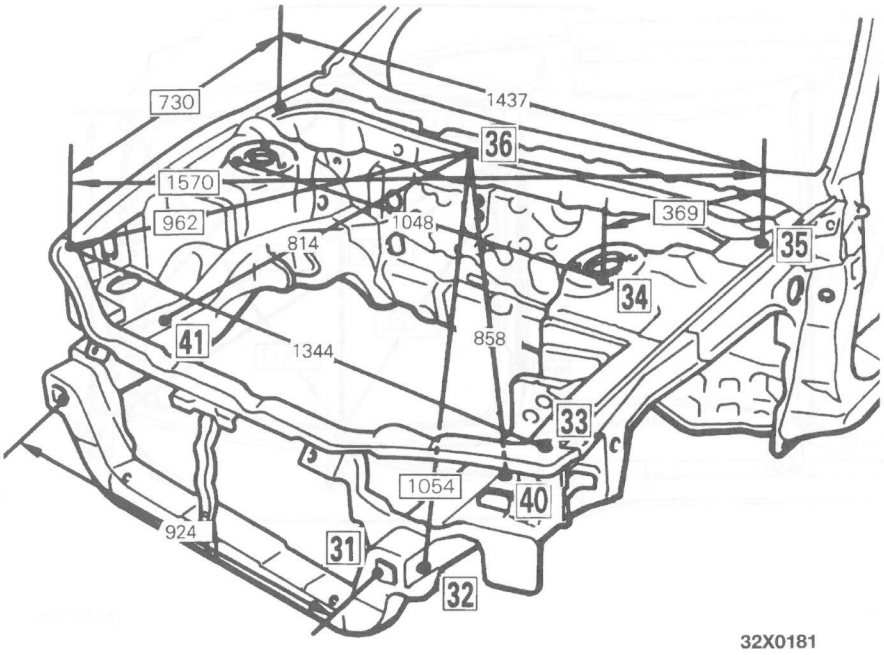




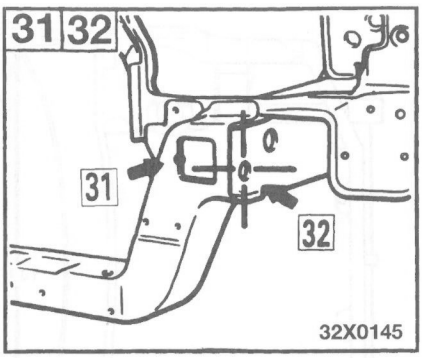




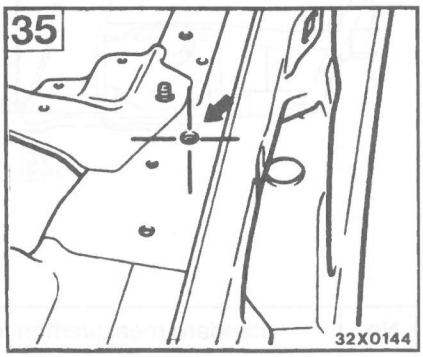
ENGINE COMPARTMENT



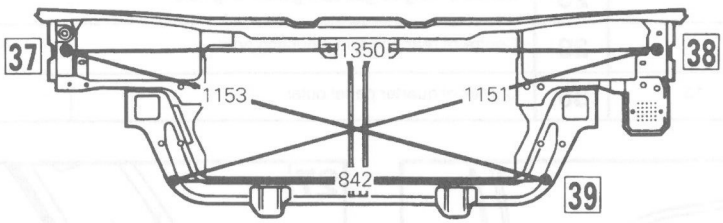
32X0181



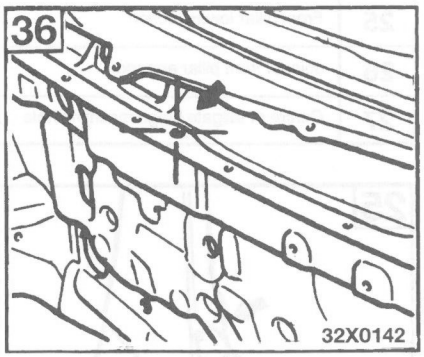
32X0145



32X0144

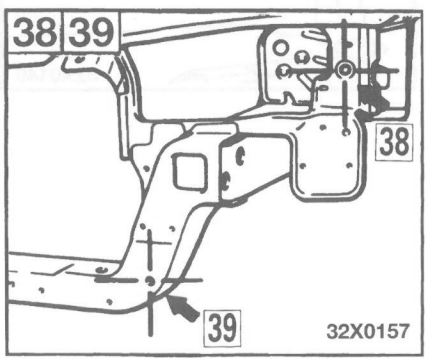


32F0048

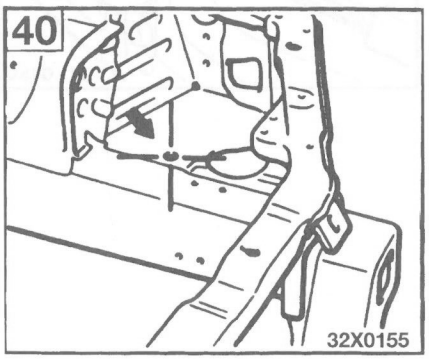


32X0142

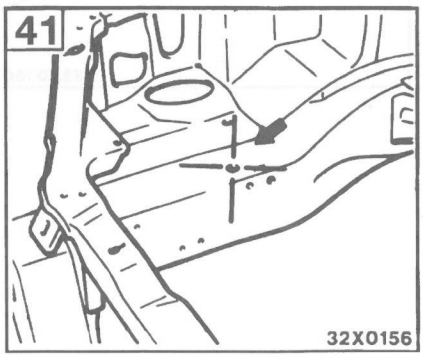
No.	Standard measurement point	Hole shape	Size mm	No.	Standard measurement point	Hole shape	Size mm
31	Edge of front end crossmember bumper mounting hole	○	54x54	37	Centre of headlight support panel positioning hole	○	16
32	Centre of front sidemember outer positioning hole	○	25	38	Centre of headlight support panel positioning hole	○	16
33	Centre of front end upper bar positioning hole	○	10	39	Centre of fog light stay mounting hole	○	6.6
34	Centre of front shock absorber mounting hole	○	11.5	40	Centre of ABS hydraulic unit mounting hole	○	11
35	Centre of front fender mounting hole	○	6.6	41	Centre of air cleaner mounting hole	○	9
36	Centre of front deck garnish mounting hole (Body centre point)	○	5				



32X0157

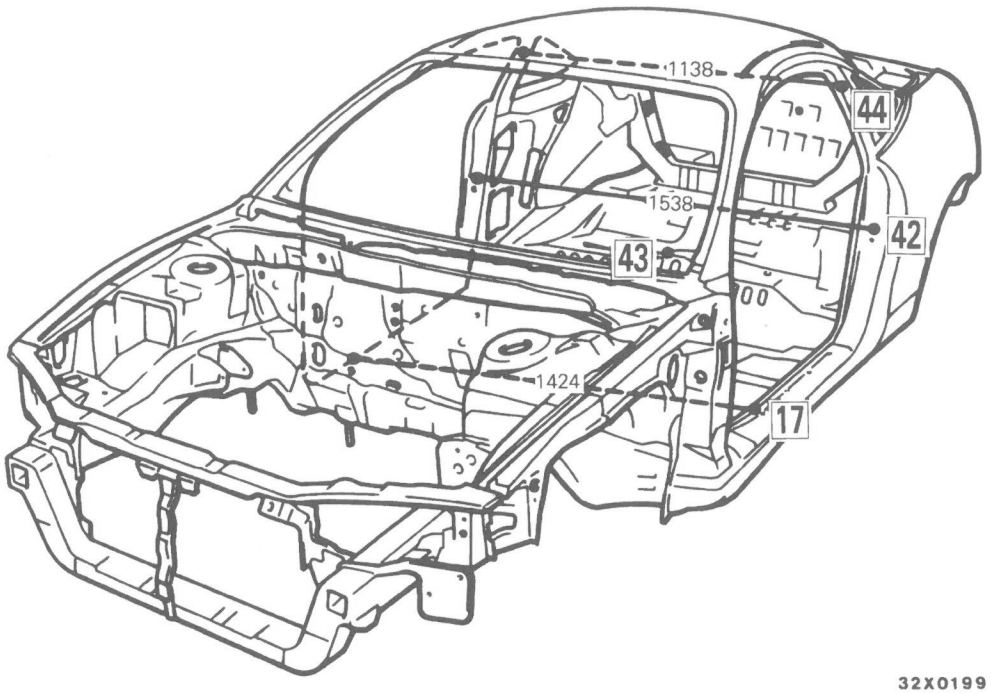


32X0155



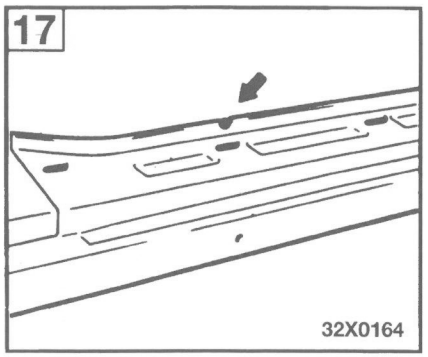
32X0156

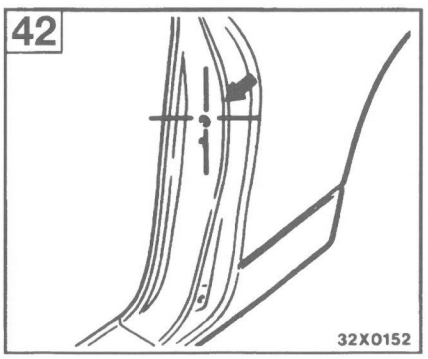
INTERIOR

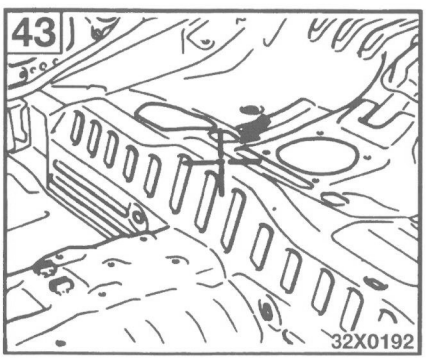


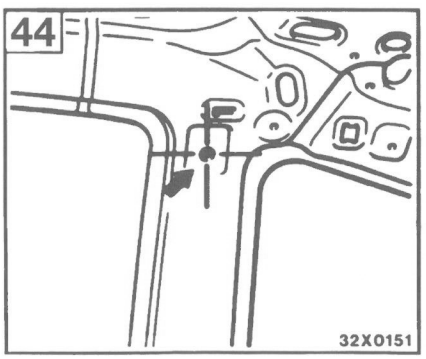
32X0199

No.	Standard measurement point	Hole shape	Size mm	No.	Standard measurement point	Hole shape	Size mm
17	Side sill outer positioning notch (Front section)	–		43	Centre of floor carpet mounting hole (body centre point)	○	8.5
42	Centre of door striker mounting hole	○	14	44	Centre of seat belt anchor mounting hole	○	15







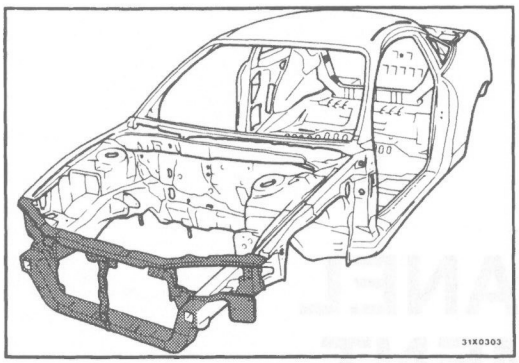


NOTES

3 WELDED PANEL REPLACEMENT

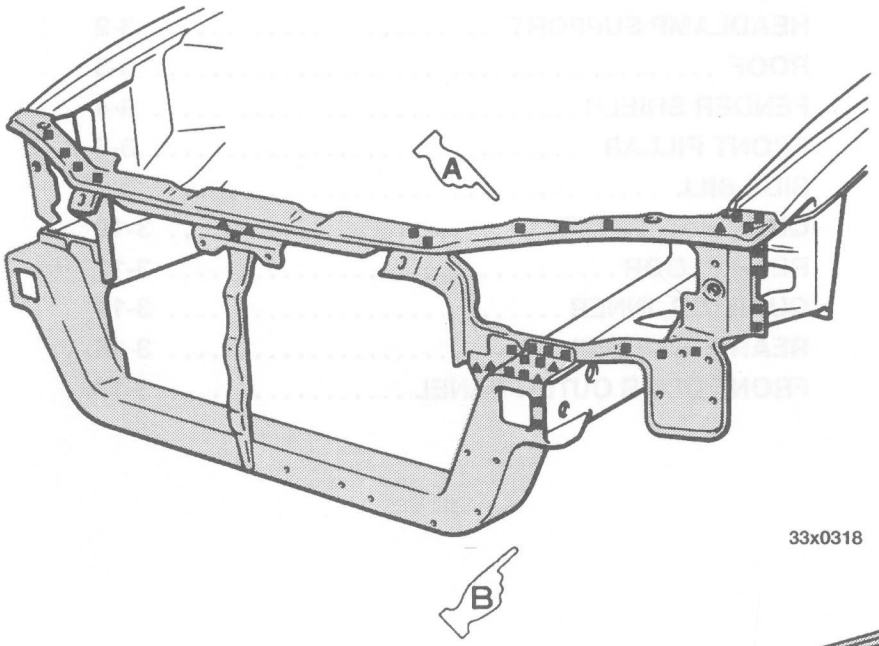
HEADLAMP SUPPORT 3-2
ROOF 3-3
FENDER SHIELD 3-4
FRONT PILLAR 3-6
SIDE SILL 3-8
QUARTER, OUTER 3-10
REAR FLOOR 3-12
QUARTER, INNER 3-14
REAR END PANEL 3-16
FRONT DOOR OUTER PANEL 3-17

HEADLAMP SUPPORT

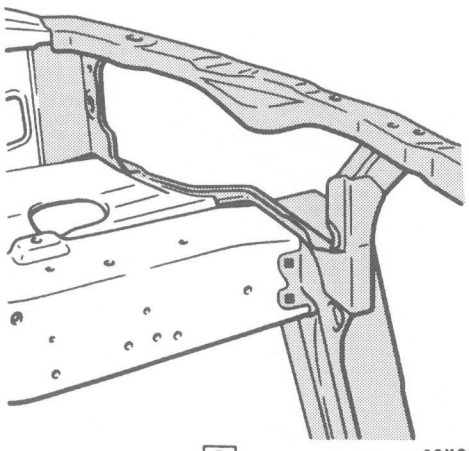


Symbol	Operation description
• • • •	Spot welding
■ ■ ▲ ▲	MIG plug welding ■ Indicates two panels to be welded ▲ Indicates three panels to be welded
+ + + +	MIG spot welding
++++++++++	MIG arc welding (continuous)
oooooooo	Braze welding
	Anti-corrosion agent application locations (Use access holes to apply liberally to butt-welded joints.)

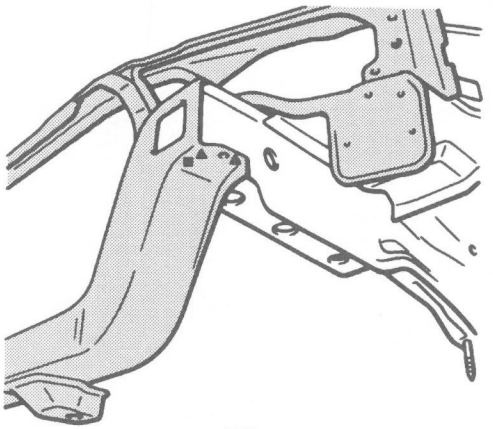
REPAIR WELDS



33x0318



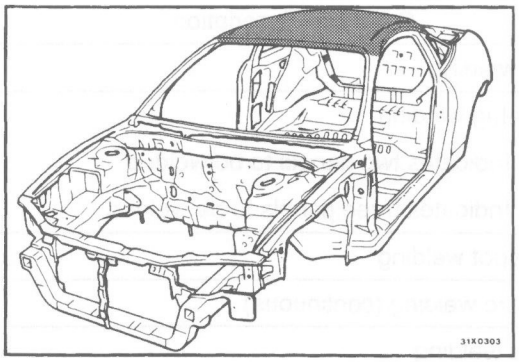
A 33X0319



B 33X0320

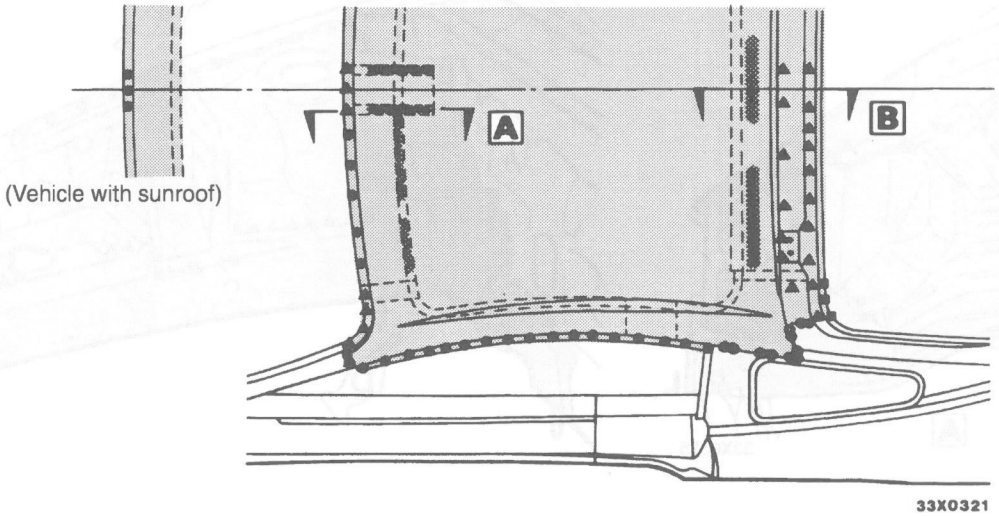
NOTE
The illustrations show the weld points for the left side.
For the right side, only weld points that are different from those on the left side are shown.

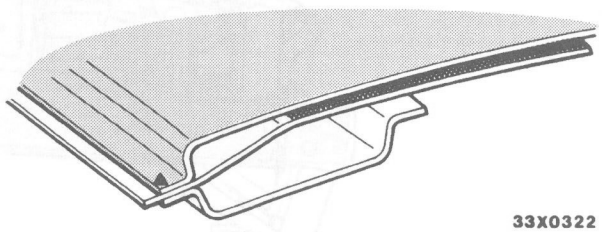
ROOF



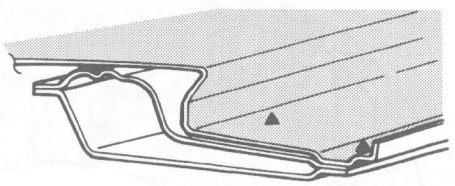
Symbol	Operation description
• • • •	Spot welding
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	Anti-corrosion agent application locations (Use access holes to apply liberally to butt-welded joints.)

REPAIR WELDS





A

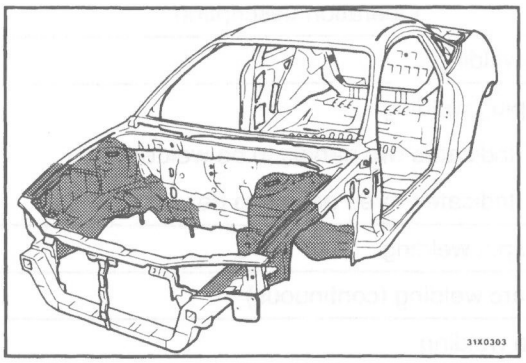


B

▒: Adhesive

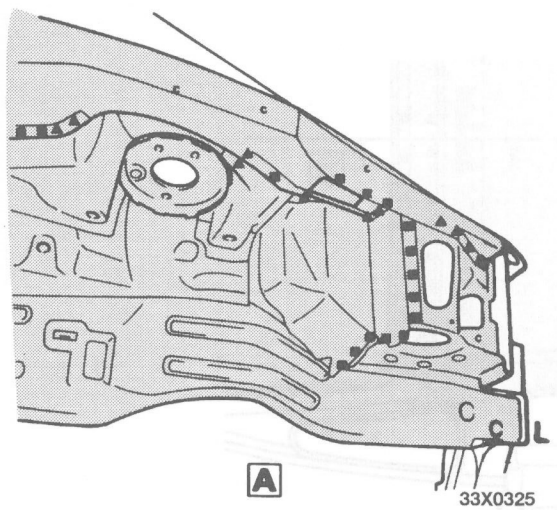
Adhesive	Type
	Chloroprene-base drying sealant

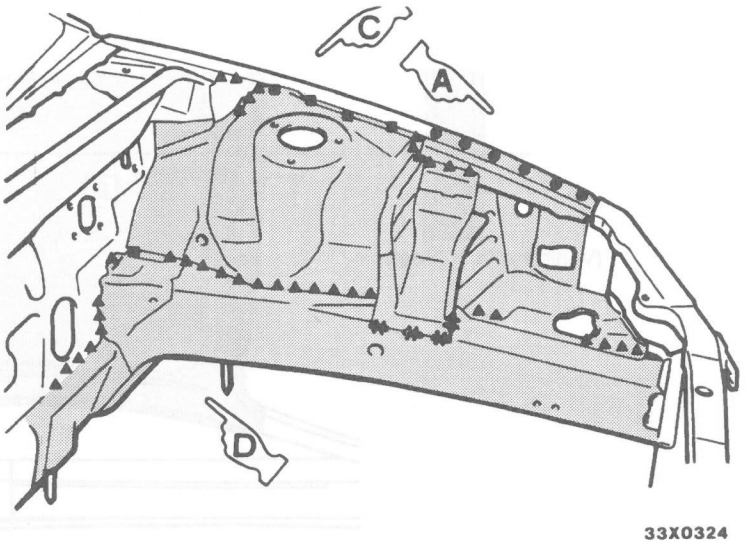
FENDER SHIELD

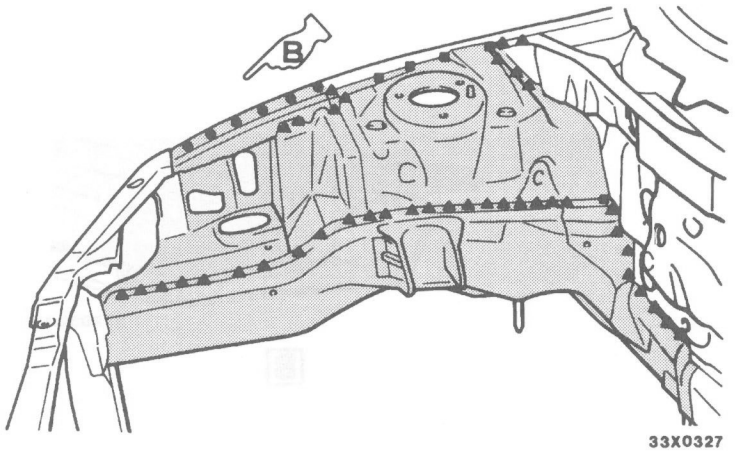


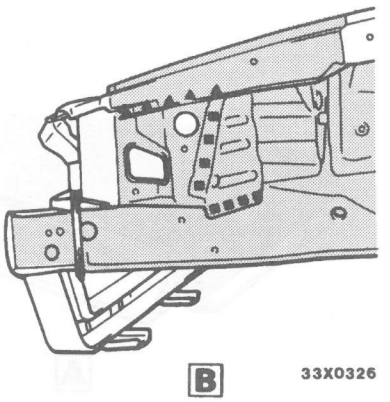
Symbol	Operation description
• • • •	Spot welding
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++++++++++	MIG arc welding (continuous)
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	Anti-corrosion agent application locations (Use access holes to apply liberally to butt-welded joints.)

REPAIR WELDS



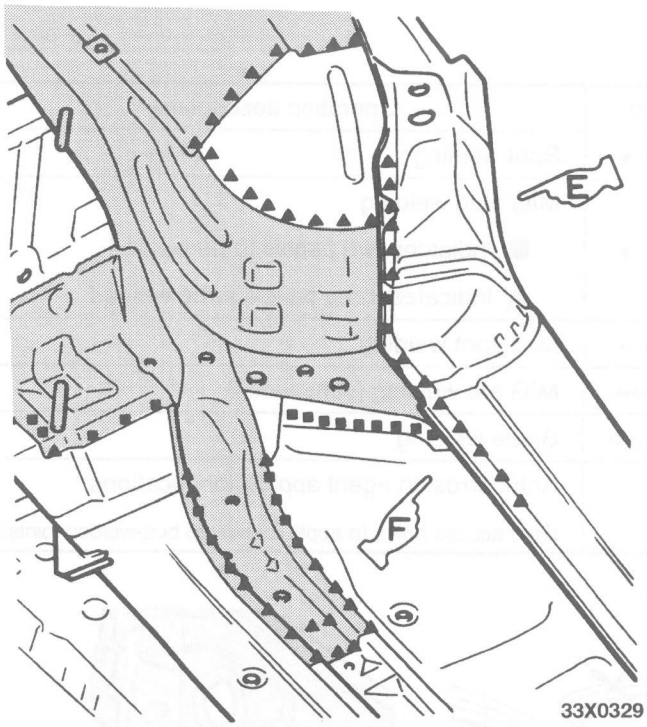






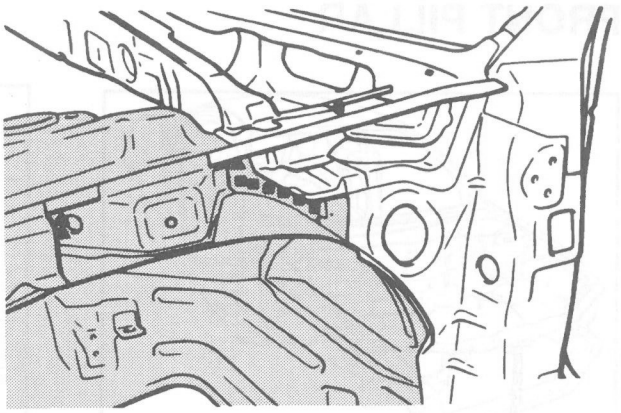
(B indicates only weld points that are different from A)

NOTE
(1) Refer to P.3-2 for the headlamp support weld points.
(2) Refer to P.3-6 for the front upper frame outer extension weld points.



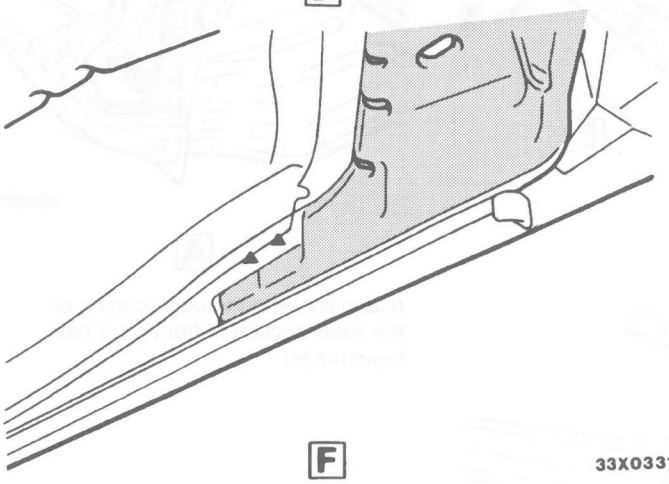
33X0329

D

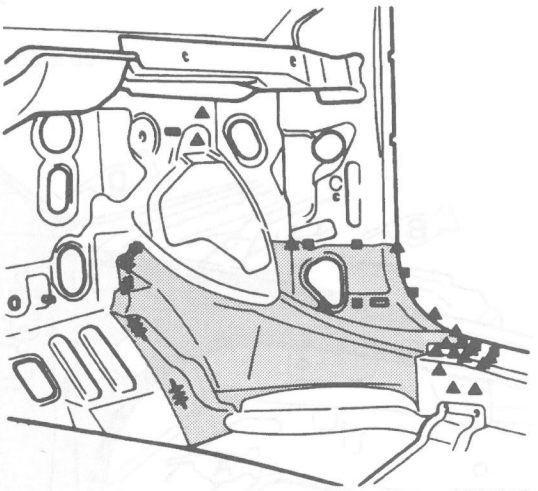


C 33X0328

(Condition with the front upper frame outer extension removed)

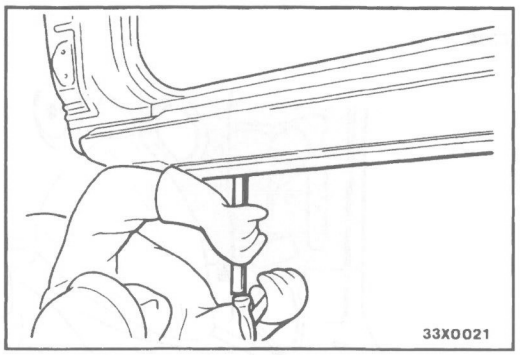


F 33X0331



33X0330

E



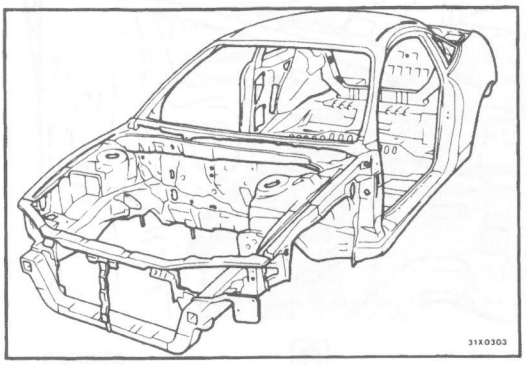
33X0021

NOTES WITH REGARD TO REPAIR WORK

REMOVAL

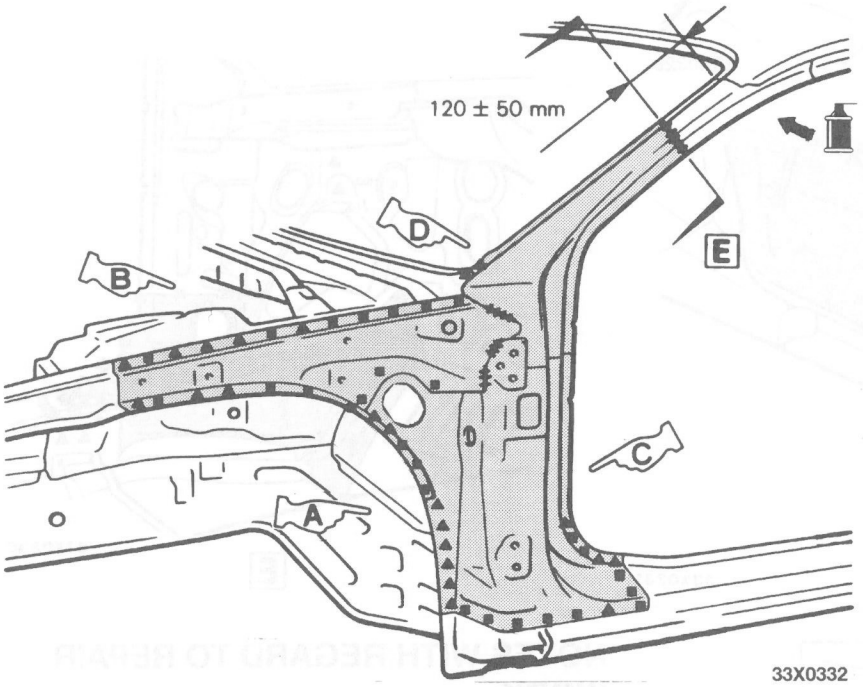
Separate the weld point in the illustration F with a chisel.

FRONT PILLAR

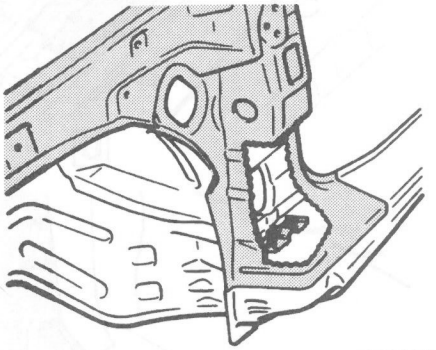


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+ + + +	MIG spot welding
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oooooooo	Braze welding
	Anti-corrosion agent application locations (Use access holes to apply liberally to butt-welded joints.)

REPAIR WELDS



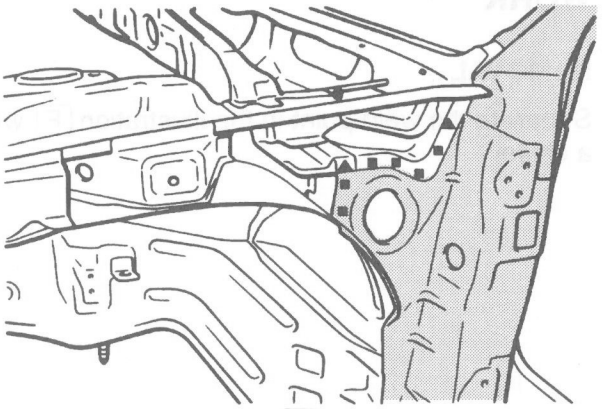
33X0332



33X0227

A

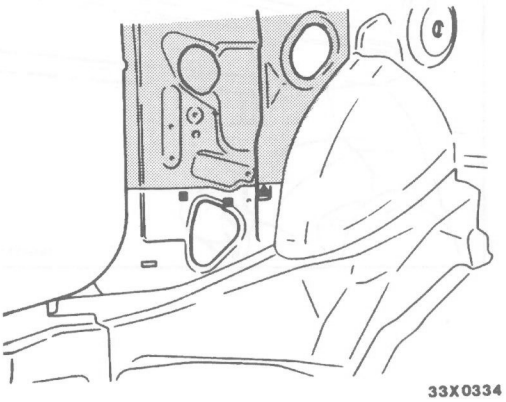
(Condition when a rough cutting of the lower section of front pillar has been made)



B

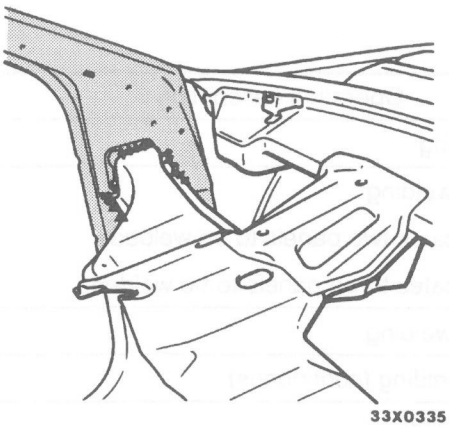
33X0333

(Condition when front upper frame outer extension has been removed)

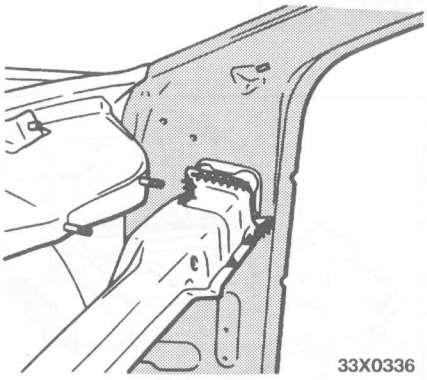


33X0334

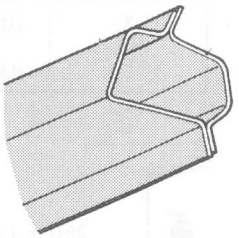
C



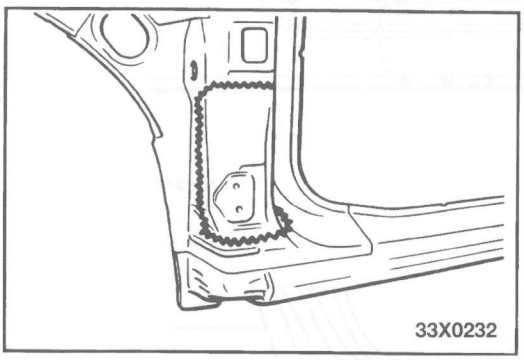
D (Left side)

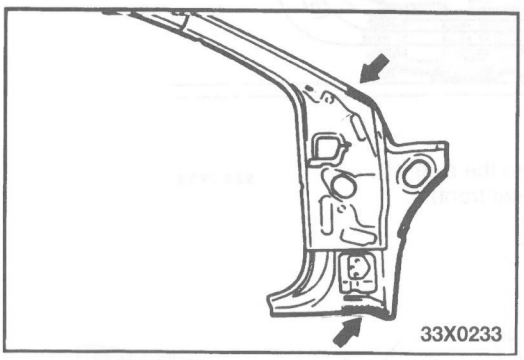


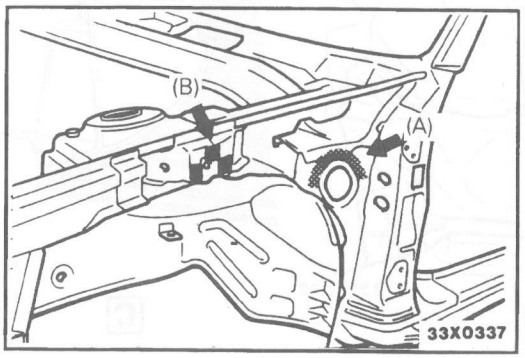
D (Right side)



E 31X0339







NOTES WITH REGARD TO REPAIR WORK

REMOVAL

(1) In order to separate weld point B, make a rough cutting of the front pillar outer as shown in the illustration.

INSTALLATION

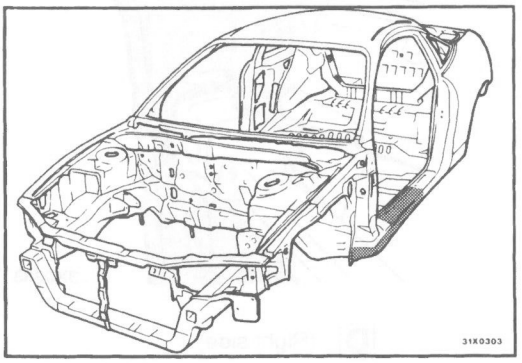
(1) When installing the front pillar, apply body sealant to the places indicated in the illustration.

(2) When installing the front upper frame outer extension, apply the body sealant to section (A) in the illustration. In addition, apply adhesive to section (B) or make plug welds in the three places shown in the illustration.

■: Adhesive

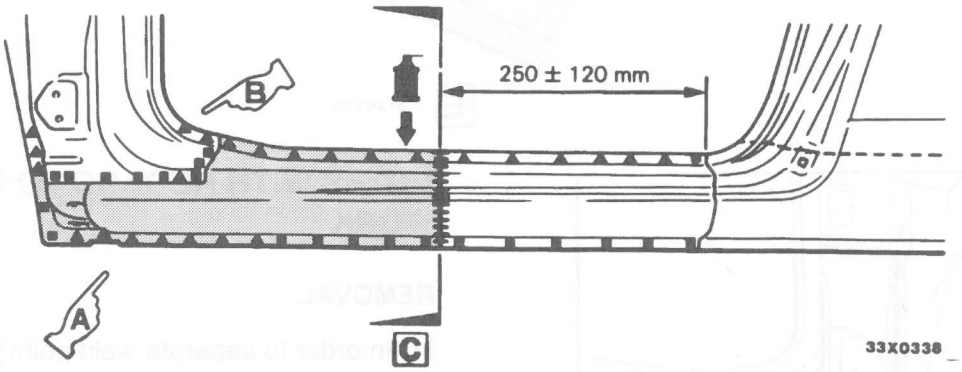
Adhesive	Type
	Chloroprene-base drying sealant

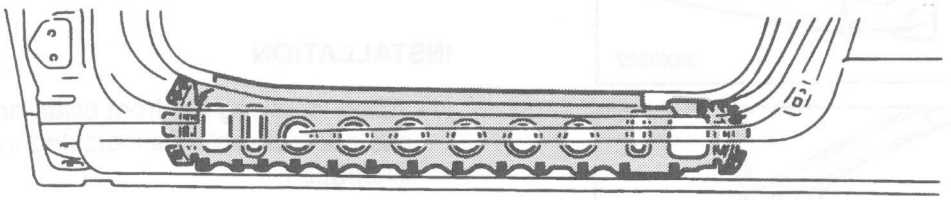
SIDE SILL



Symbol	Operation description
• • • •	Spot welding
■ ■ ▲ ▲	MIG plug welding ■ Indicates two panels to be welded ▲ Indicates three panels to be welded
+ + + +	MIG spot welding
++++++++++	MIG arc welding (continuous)
oooooooo	Braze welding
	Anti-corrosion agent application locations (Use access holes to apply liberally to butt-welded joints.)

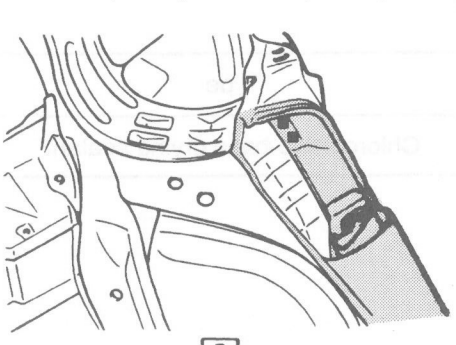
REPAIR WELDS

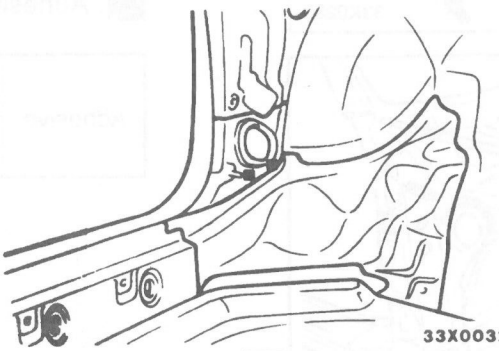


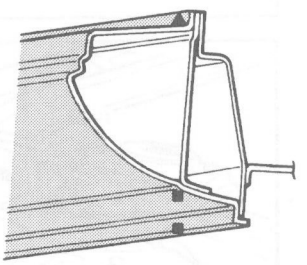


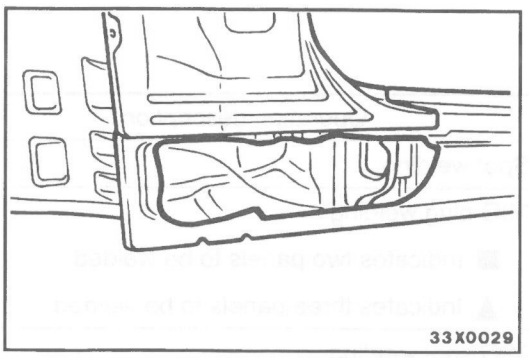
(Indicates weld points between the side sill outer and side sill reinforcement front)

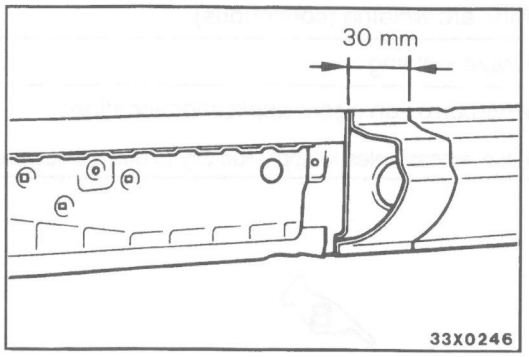
(The illustration shows the side sill outer partially cut and separated)



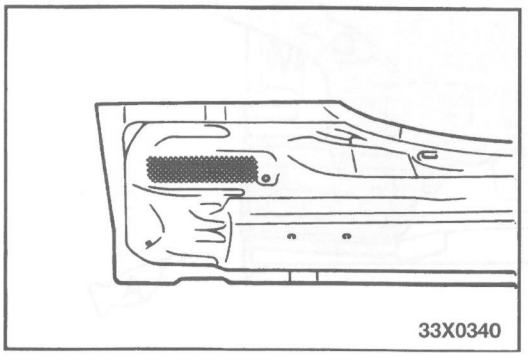


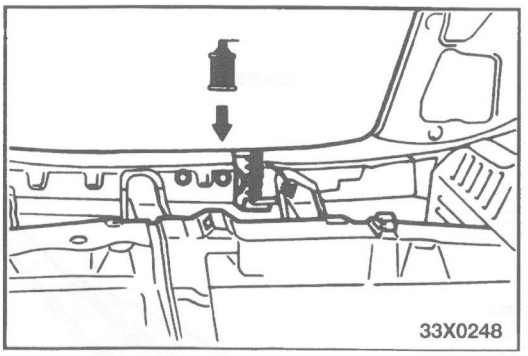



33X0029



33X0246


33X0340


33X0248

NOTES WITH REGARD TO REPAIR WORK

REMOVAL

In order to separate weld point [A], make a rough cutting of only the side sill outer as shown in the illustration.

NOTE

When installing, make holes through two layers of the panel so that plug welding is possible from the access holes inside the passenger compartment.

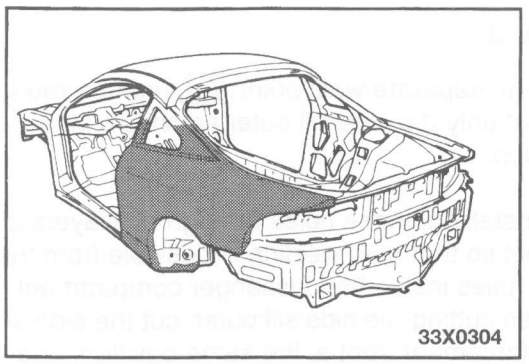
(1) When cutting the side sill outer. cut the side sill reinforcement front at the same position. and cut only the side sill outer 30 mm back from this position.

INSTALLATION

(1) Apply body sealant to the places indicated in the illustration.

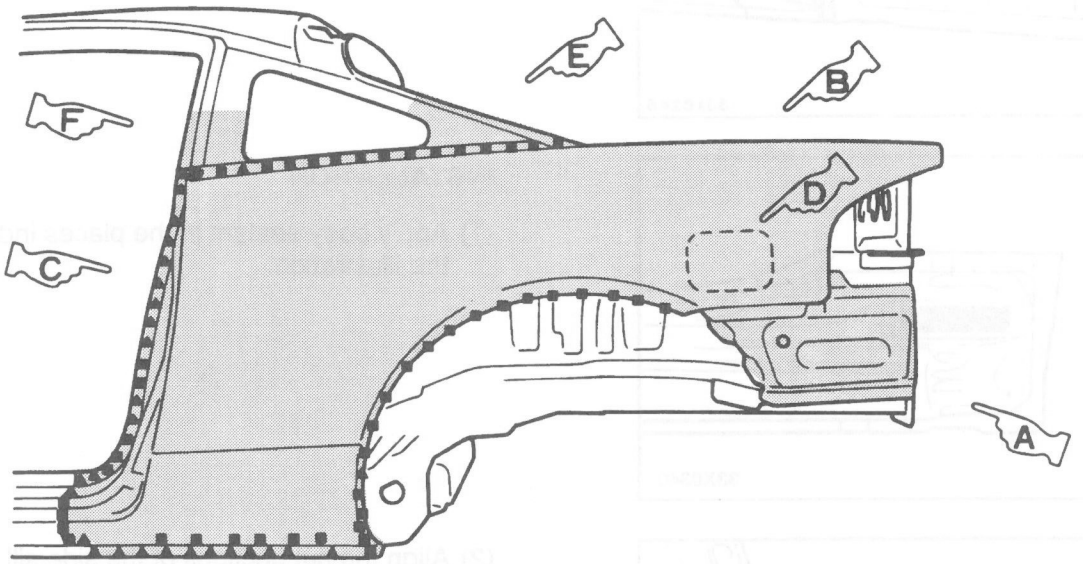
(2) Align the cut sections of the side sill outer and side sill reinforcement, and then cut. To weld, make a cut in the front floor side sill inner from inside the passenger compartment as shown in the illustration, bend the cut portion and then weld the side sill reinforcement. After welding the side sill reinforcement front, return the front floor side sill inner to its original position and weld it.

QUARTER OUTER

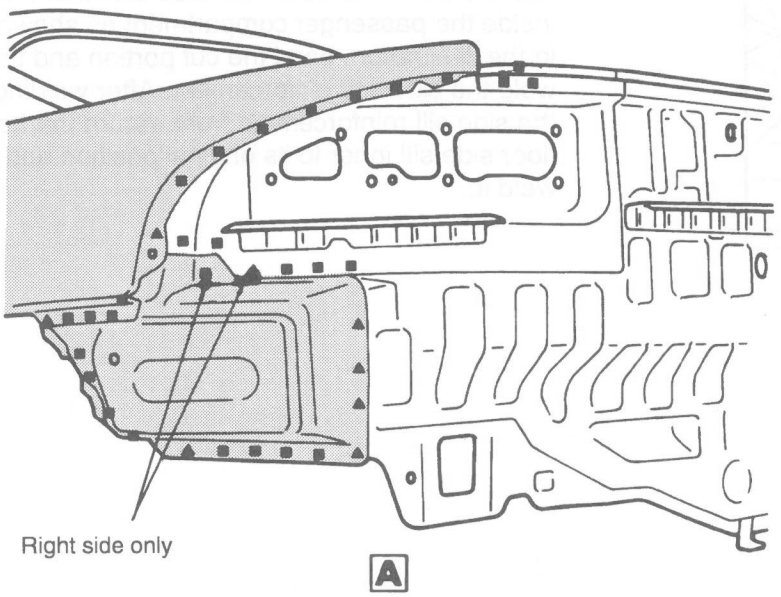

33X0304

Symbol	Operation description
• • • •	Spot welding
■ ■ ▲ ▲	MIG plug welding ■ Indicates two panels to be welded ▲ Indicates three panels to be welded
+ + + +	MIG spot welding
++++++++++	MIG arc welding (continuous)
oooooooo	Braze welding
	Anti-corrosion agent application locations (Use access holes to apply liberally to butt-welded joints.)

REPAIR WELDS

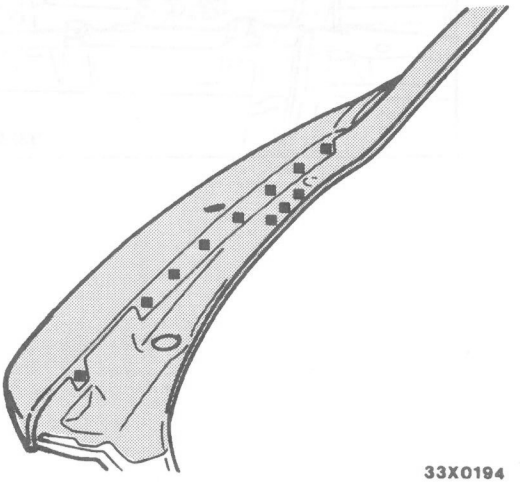


33X0367

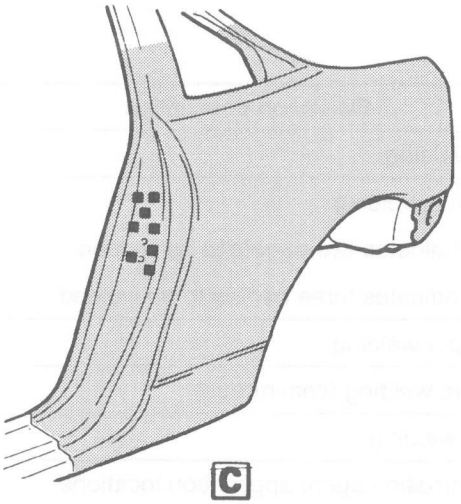

Right side only

A

33X0368

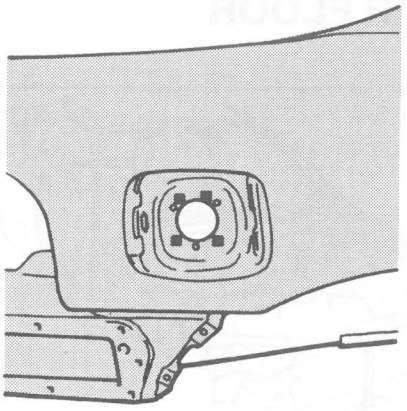

33X0194

B



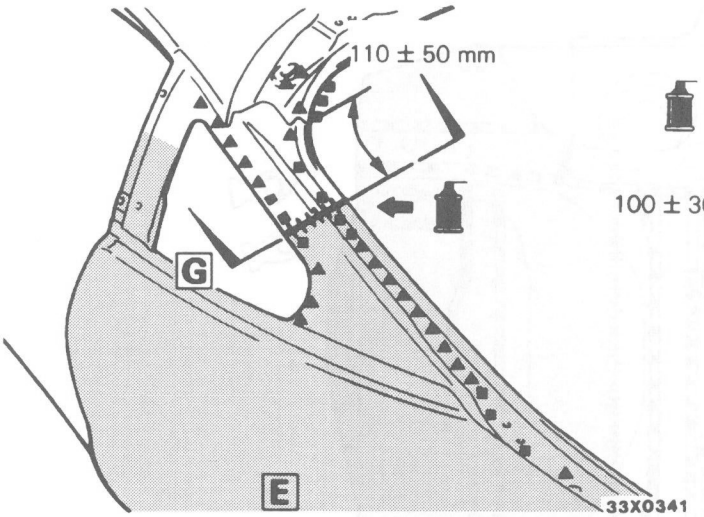
C

33X0203

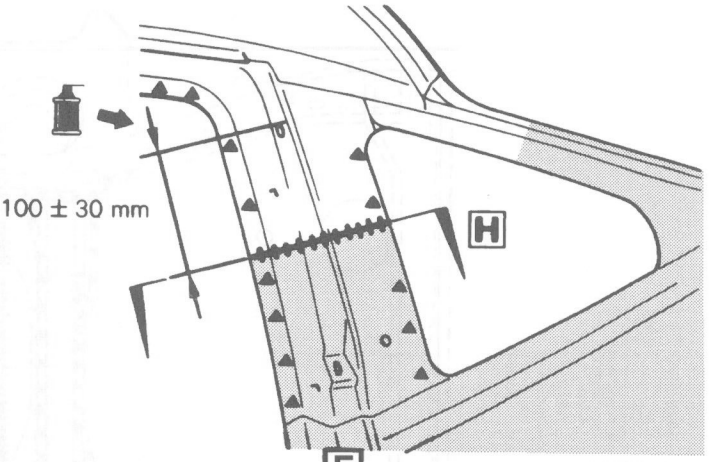


D 33X0204

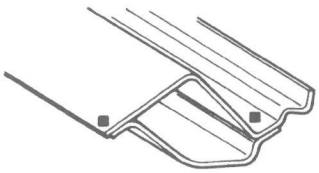
(Right side)



33X0341

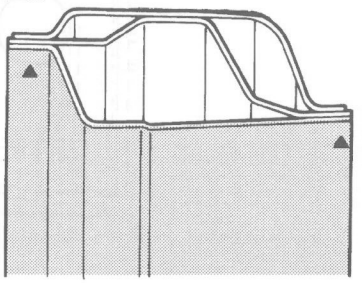


33X0342

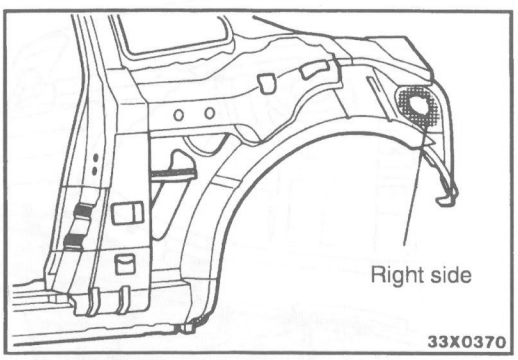


33X0250

G



H 33X0343



33X0370

NOTES WITH REGARD TO REPAIR WORK

INSTALLATION

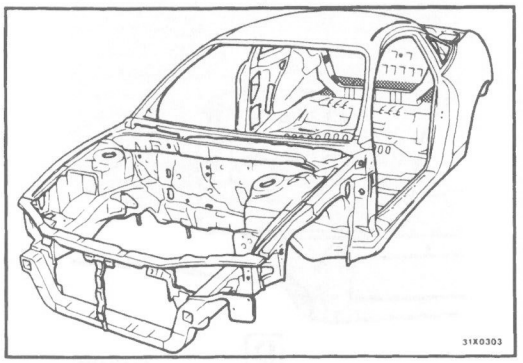
Apply the body sealant and the adhesive to the shown position

▩: Body sealant

■: Adhesive

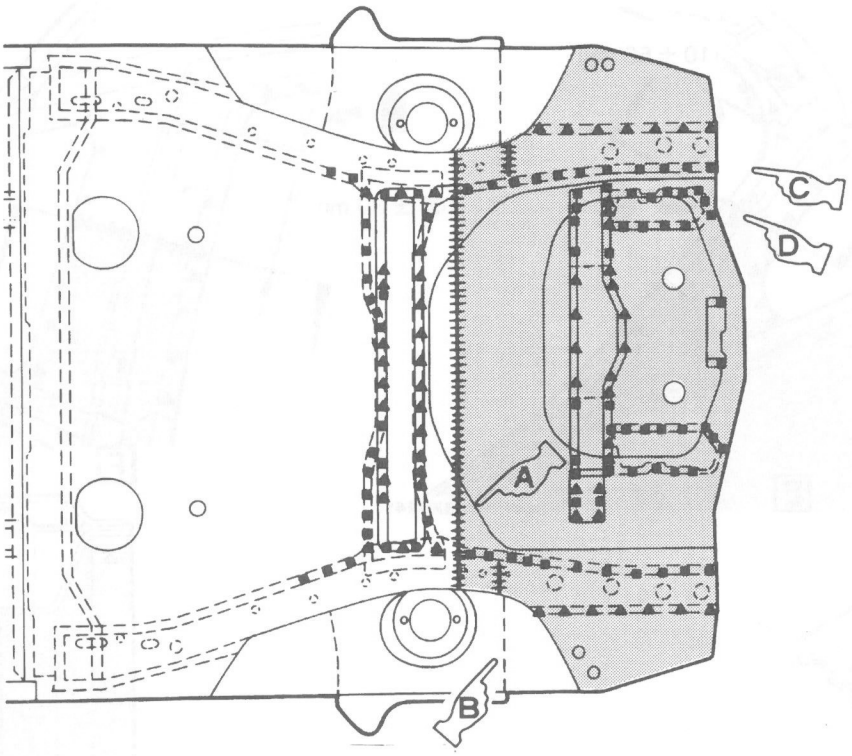
Adhesive	Type
	Chloroprene-base drying sealant

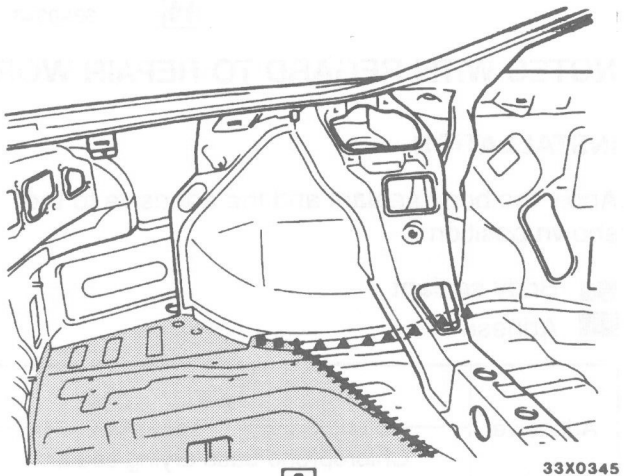
REAR FLOOR



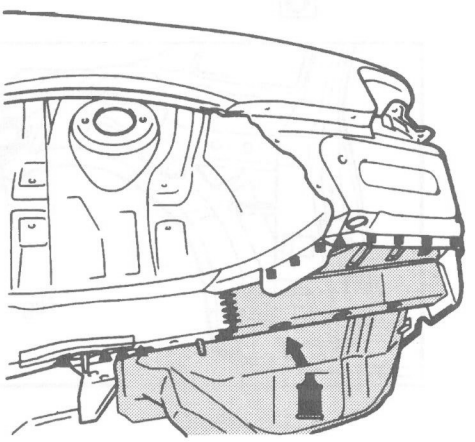
Symbol	Operation description
• • • •	Spot welding
■ ■ ▲ ▲	MIG plug welding ■ Indicates two panels to be welded ▲ Indicates three panels to be welded
+ + + +	MIG spot welding
++++++++++	MIG arc welding (continuous)
oooooooo	Braze welding
	Anti-corrosion agent application locations (Use access holes to apply liberally to butt-welded joints.)

REPAIR WELDS

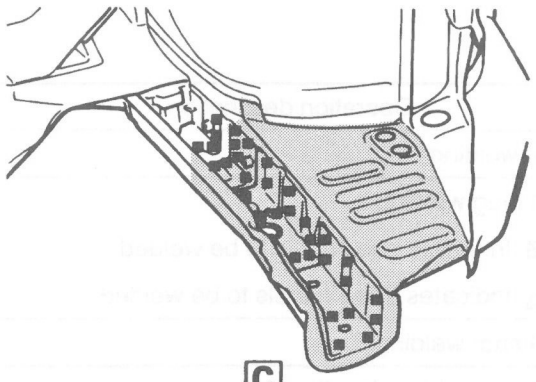


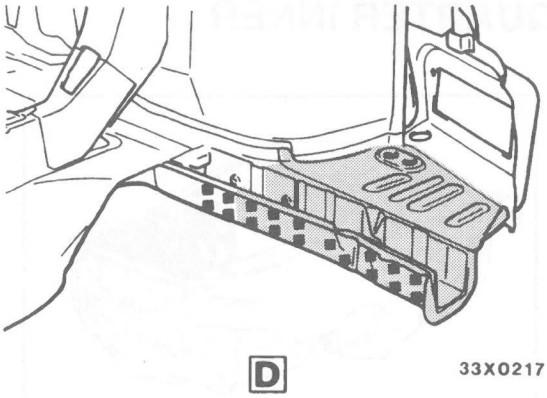


A



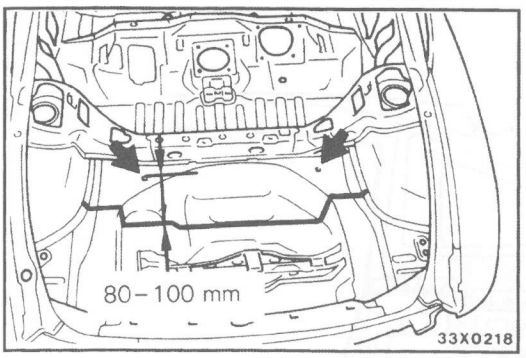
B

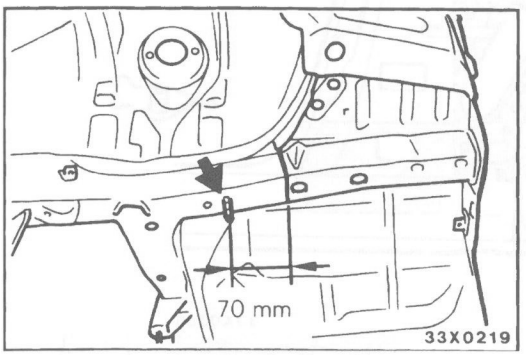


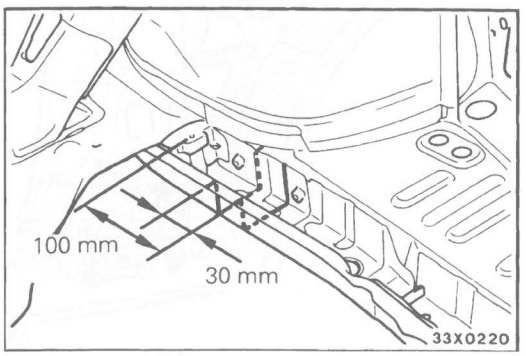


Indicates the weld points between the rear floor sidemember and reinforcement on the right side.

NOTE
Refer to P.3-16 for the rear end panel weld points.







NOTES WITH REGARD TO REPAIR WORK

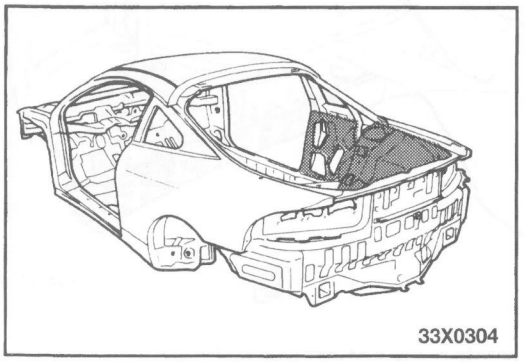
REMOVAL

(1) Cut the rear floor pan 80 - l00 mm back from the trunk board mounting hole as shown in the illustration.

(2) Cut the rear floor sidemember on the left side approximately 70 mm back from the bolt as shown in the illustration.

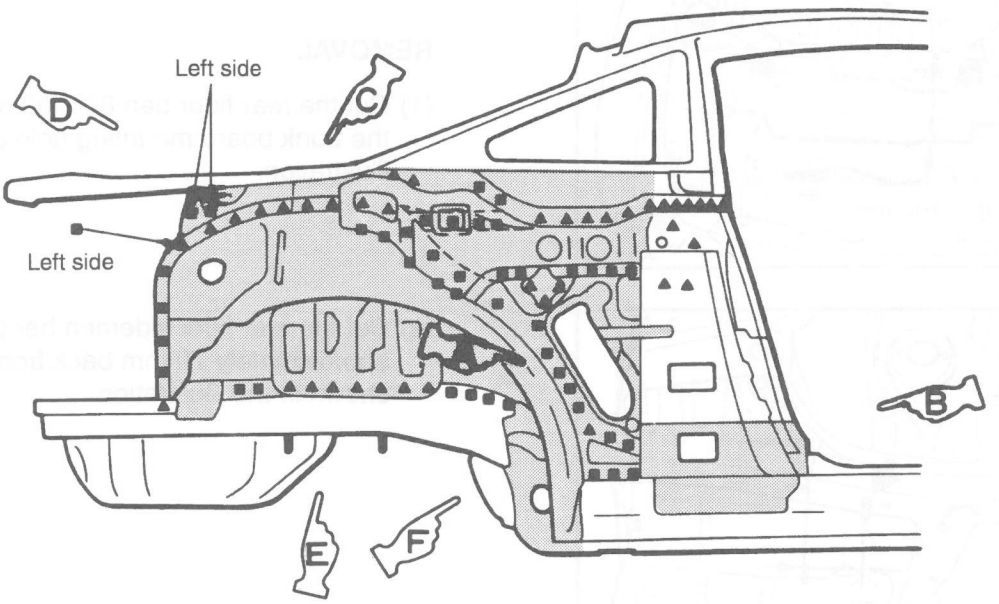
(3) Cut the rear floor sidemember on the right side together with the reinforcement approximately 100 mm back from the bolt as shown in the illustration.
Cut only the rear floor sidemember 30 mm forward of the first cutting position.
Cut the new parts to fit and weld the rear floor sidemember from the bottom and the reinforcement from the top respectively.

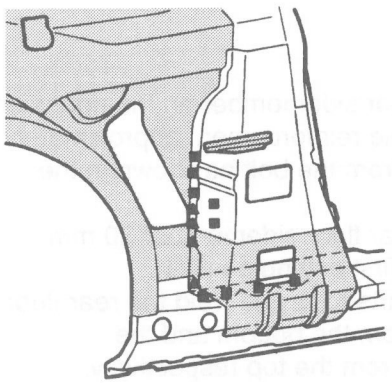
QUARTER INNER


33X0304

Symbol	Operation description
• • • •	Spot welding
■ ■ ▲ ▲	MIG plug welding ■ Indicates two panels to be welded ▲ Indicates three panels to be welded
+ + + +	MIG spot welding
++++++++++	MIG arc welding (continuous)
oooooooo	Braze welding
	Anti-corrosion agent application locations (Use access holes to apply liberally to butt-welded joints.)

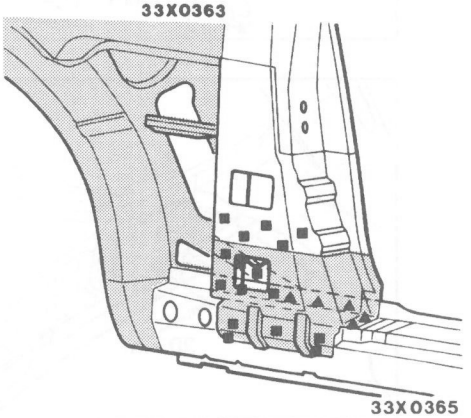
REPAIR WELDS



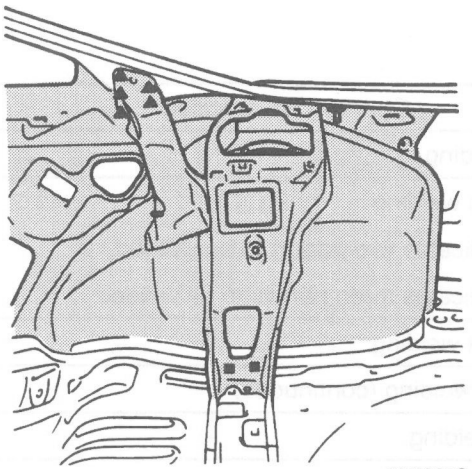

33X0364

A

33X0363

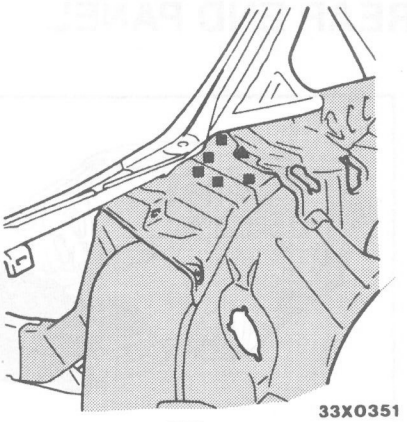

33X0365

B



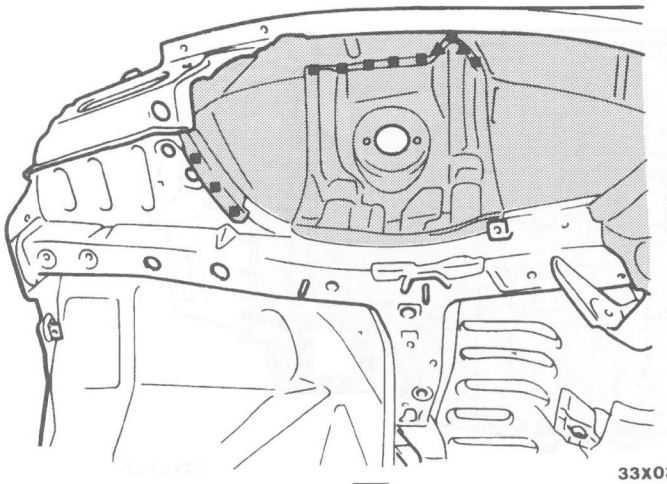
33X0352

C



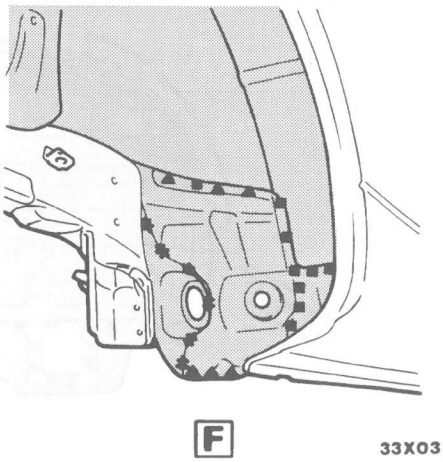
33X0351

D



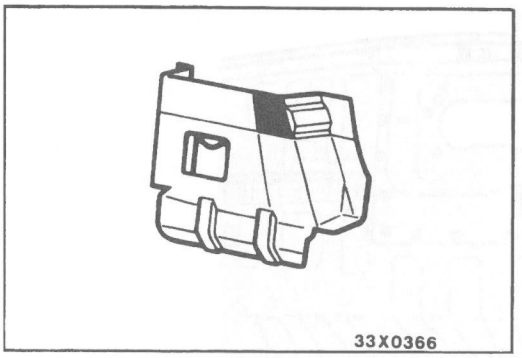
33X0350

E



F

33X0349



33X0366

NOTES WITH REGARD TO REPAIR WORK

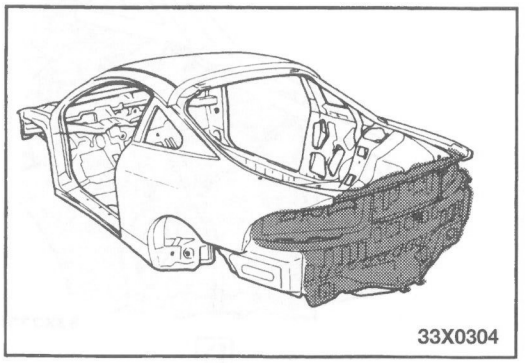
INSTALLATION

Apply the adhesive to the shown position before installing the center pillar reinforcement.

■: Adhesive

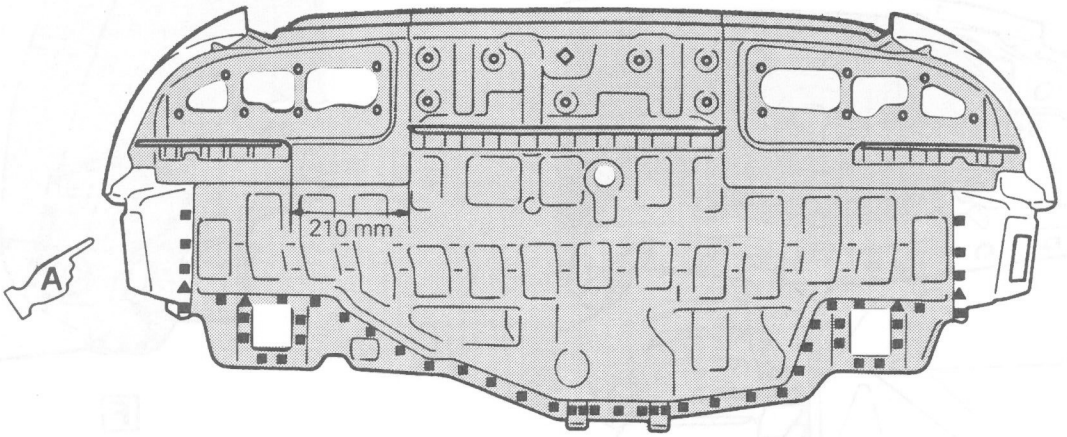
Adhesive	Type
	Chloroprene-base drying sealant

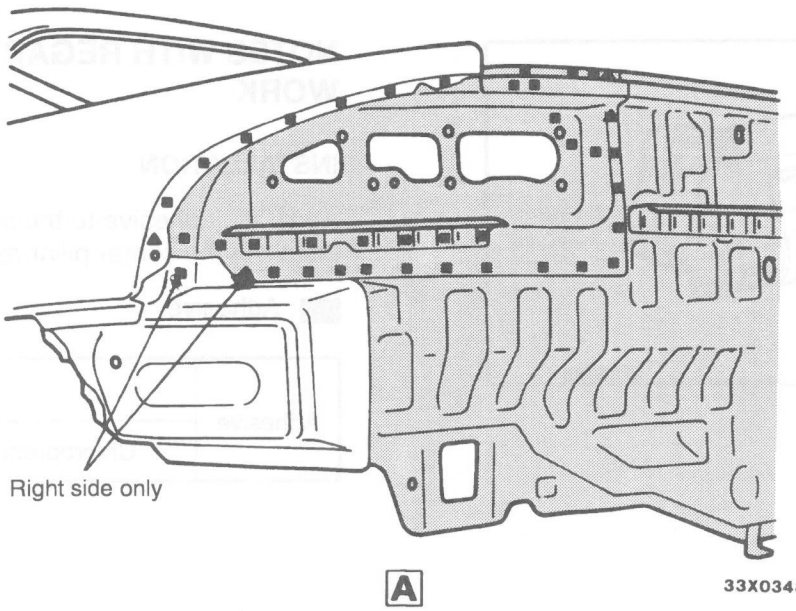
REAR END PANEL



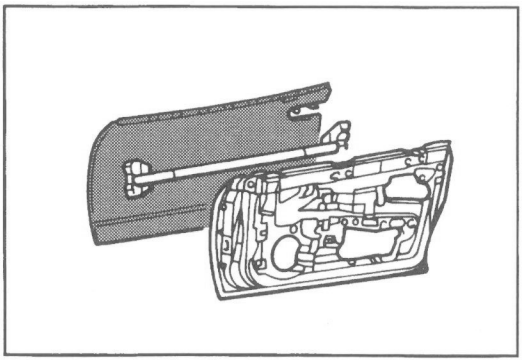
Symbol	Operation description
• • • •	Spot welding
■ ■ ▲ ▲	MIG plug welding ■ Indicates two panels to be welded ▲ Indicates three panels to be welded
+ + + +	MIG spot welding
++++++++++	MIG arc welding (continuous)
oooooooo	Braze welding
	Anti-corrosion agent application locations (Use access holes to apply liberally to butt-welded joints.)

REPAIR WELDS



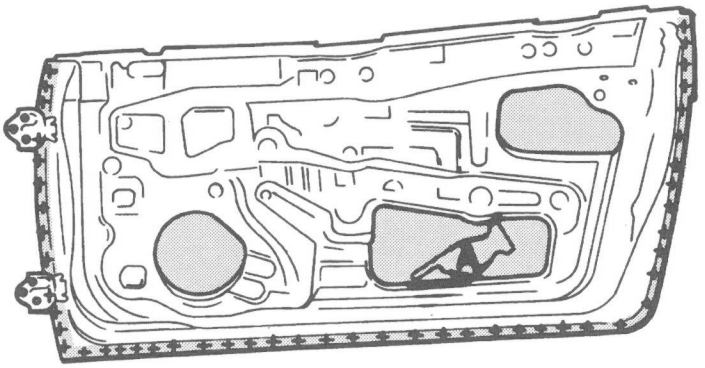


FRONT DOOR OUTER PANEL

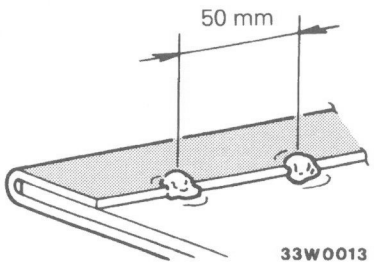


Symbol	Operation description
• • • •	Spot welding
■ ■ ▲ ▲	MIG plug welding ■ Indicates two panels to be welded ▲ Indicates three panels to be welded
+ + + +	MIG spot welding
++++++++++	MIG arc welding (continuous)
oooooooo	Braze welding
	Anti-corrosion agent application locations (Use access holes to apply liberally to butt-welded joints.)

REPAIR WELDS

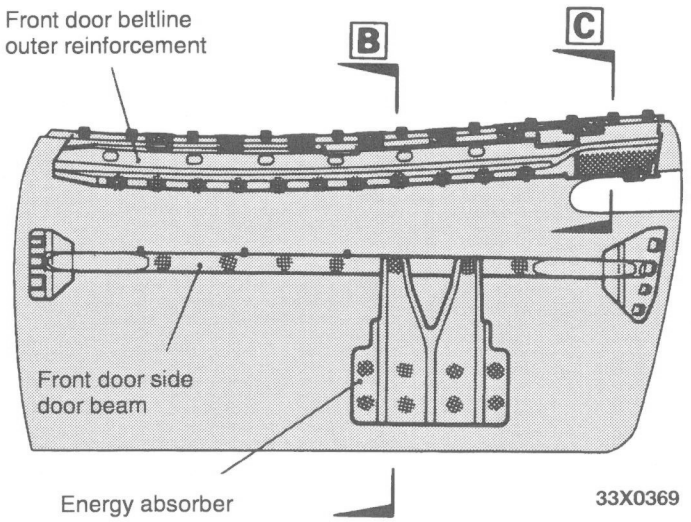


33X0221

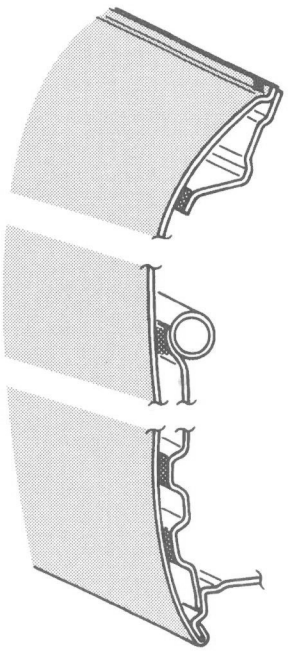


A

NOTES
After hemming the door outer panel, MIG spot weld the flange overlap section at a pitch of approx. 50 mm.

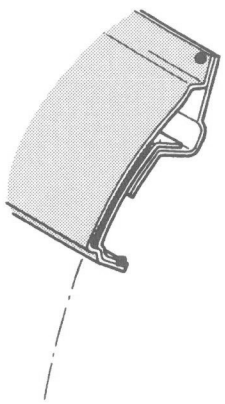


33X0369



B

33X0371



33X0353

C

▒▒ : Adhesive

Adhesive	Type
	Silicon rubber sealer

NOTES

4 CORROSION PROTECTION

BODY SEALING LOCATIONS 4-2
- FLOOR 4-2
- UPPER BODY 4-2
- SIDE BODY 4-2

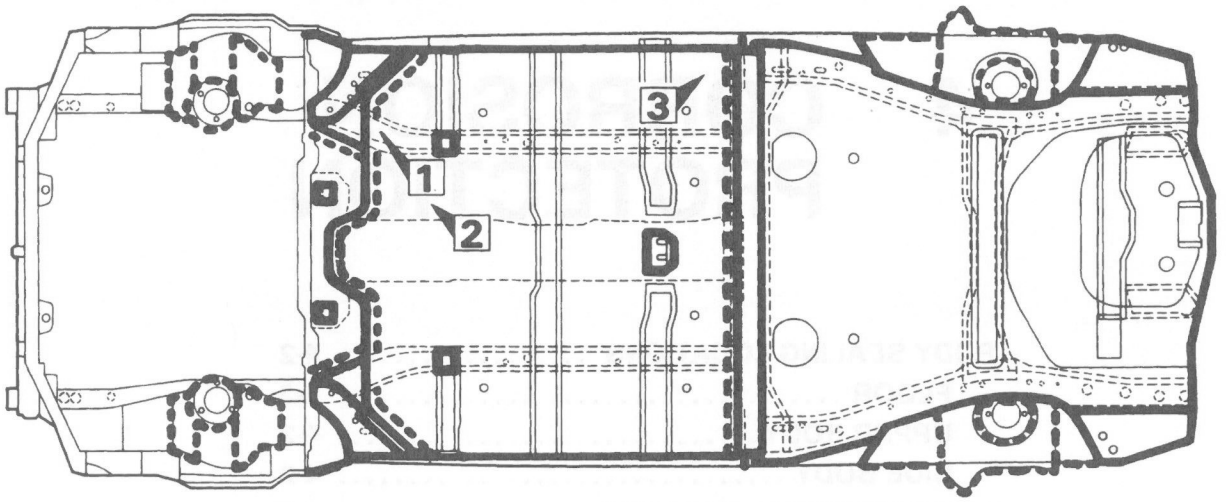
WAX INJECTION LOCATIONS 4-5
ANTICORROSION PRIMER LOCATIONS 4-7
UNDERCOAT APPLICATION LOCATIONS 4-7
UNDERBODY ANTICORROSION AGENT LOCATIONS 4-8

BODY SEALING LOCATIONS

NOTES WITH REGARD TO REPAIR WORK

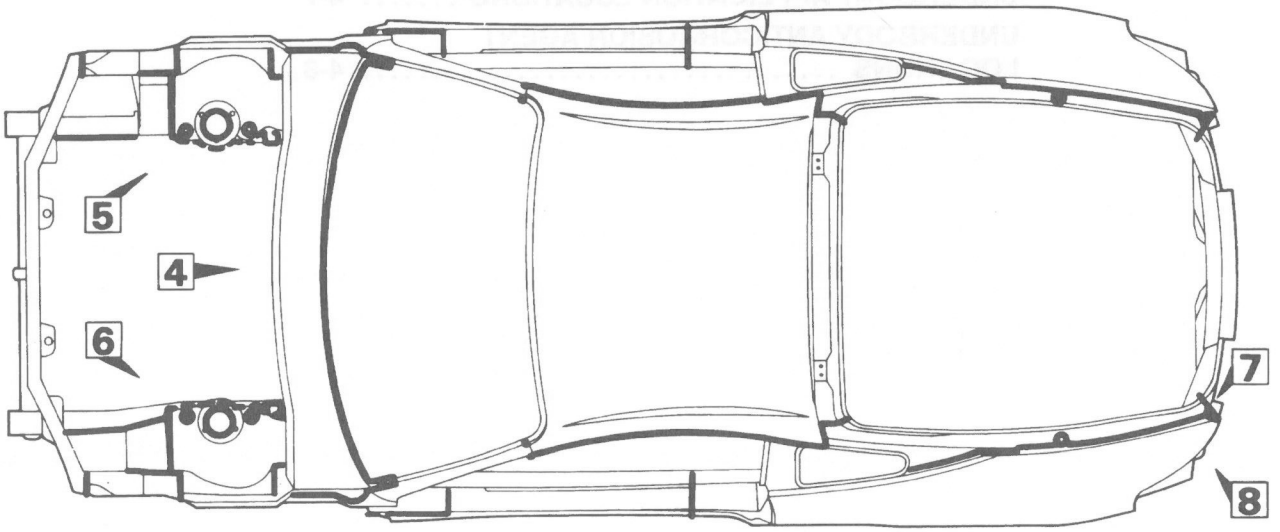
In places where the sealant can be directly seen on surfaces such as the drip rails, pillars or clinch, and where the appearance of the paint surface is important, apply sealant or wipe away sealant after application to make the amount of sealant even. Be careful not to cover the drain hole.

FLOOR



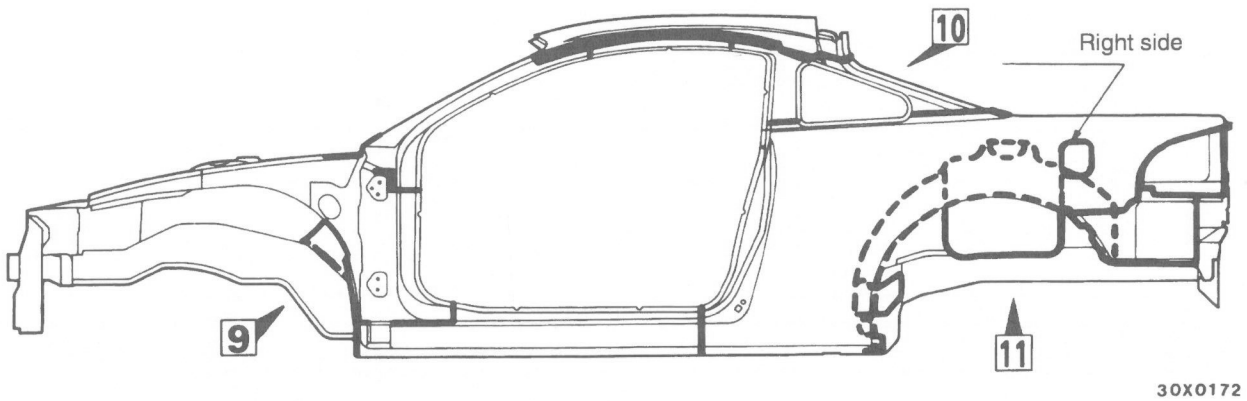
32X0191

UPPER BODY



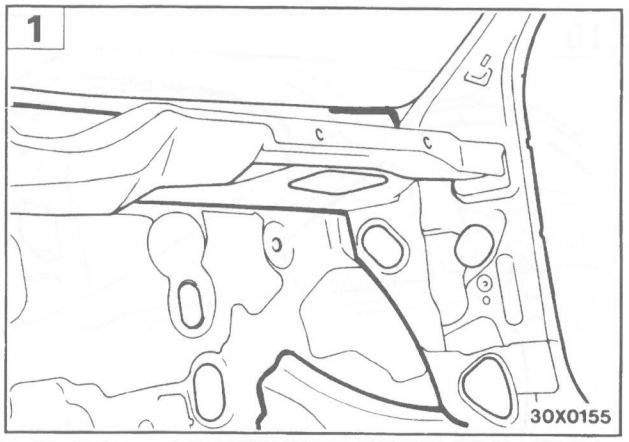
30X0171

SIDE BODY

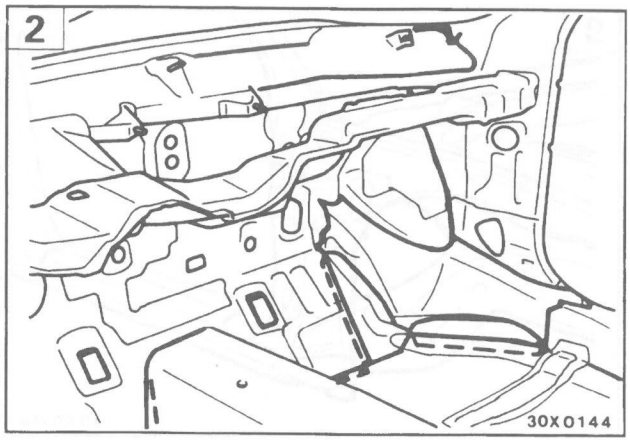


30X0172

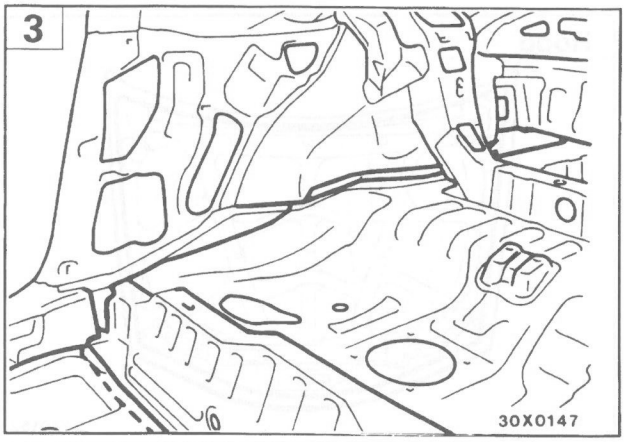
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30X0155

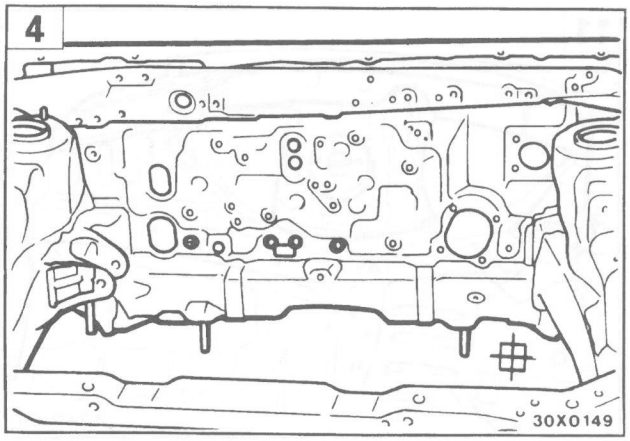
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30X0144

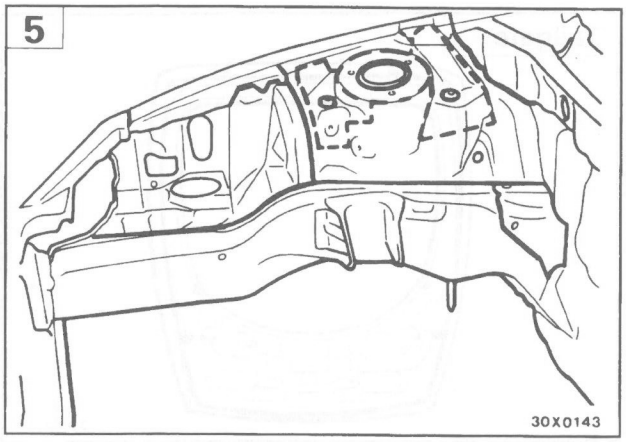
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30X0147

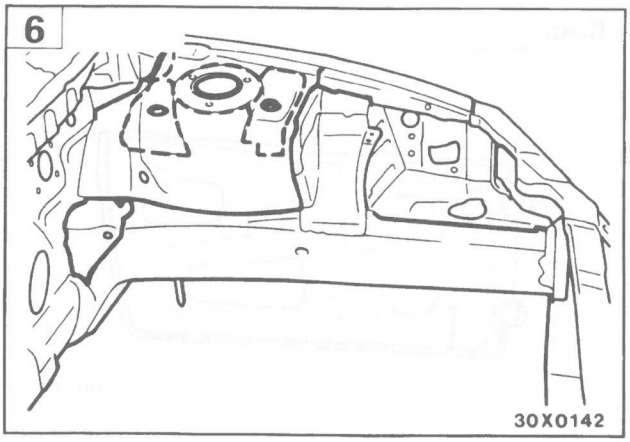
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30X0149

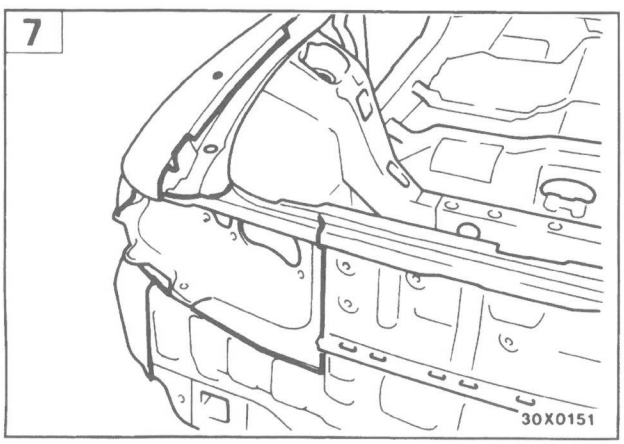
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30X0143

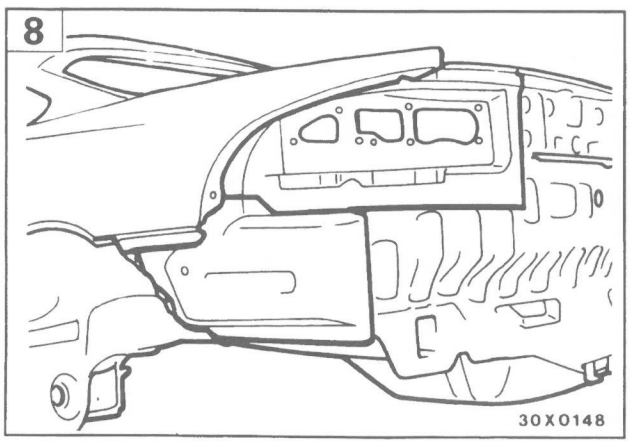
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30X0142

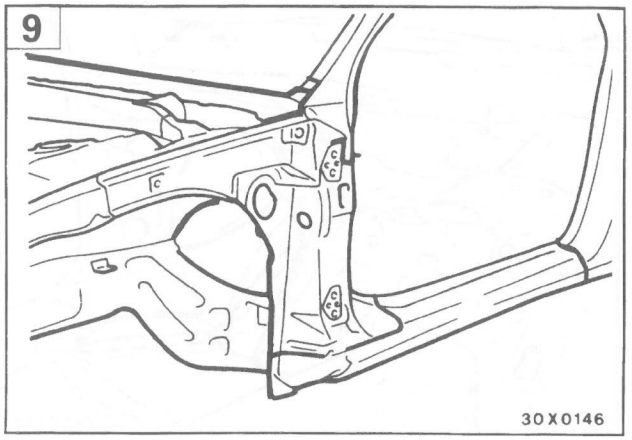
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30X0151

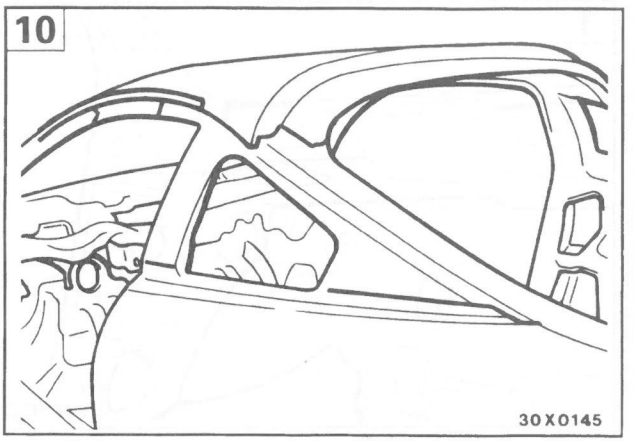
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30X0148

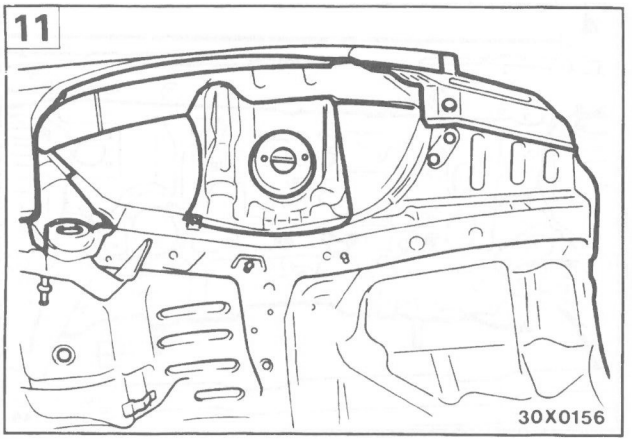
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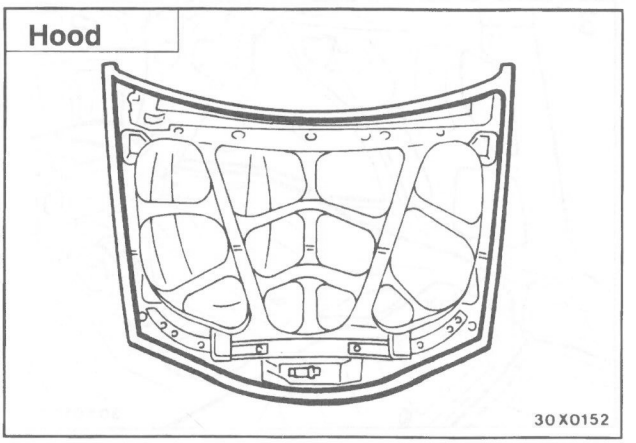
10



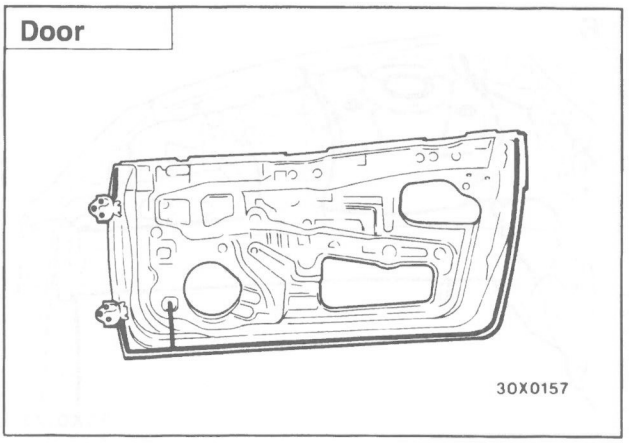
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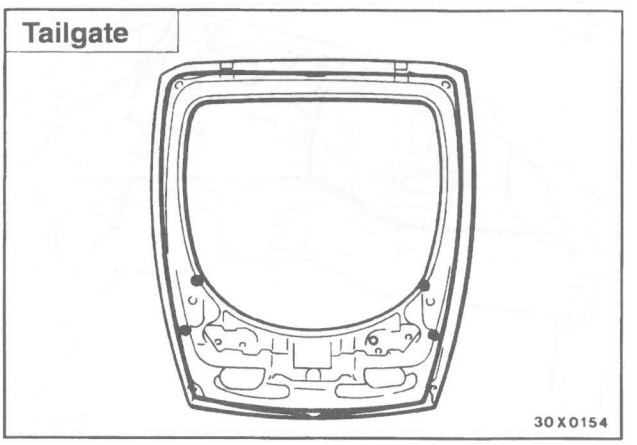
Hood



Door



Tailgate



WAX INJECTION LOCATIONS

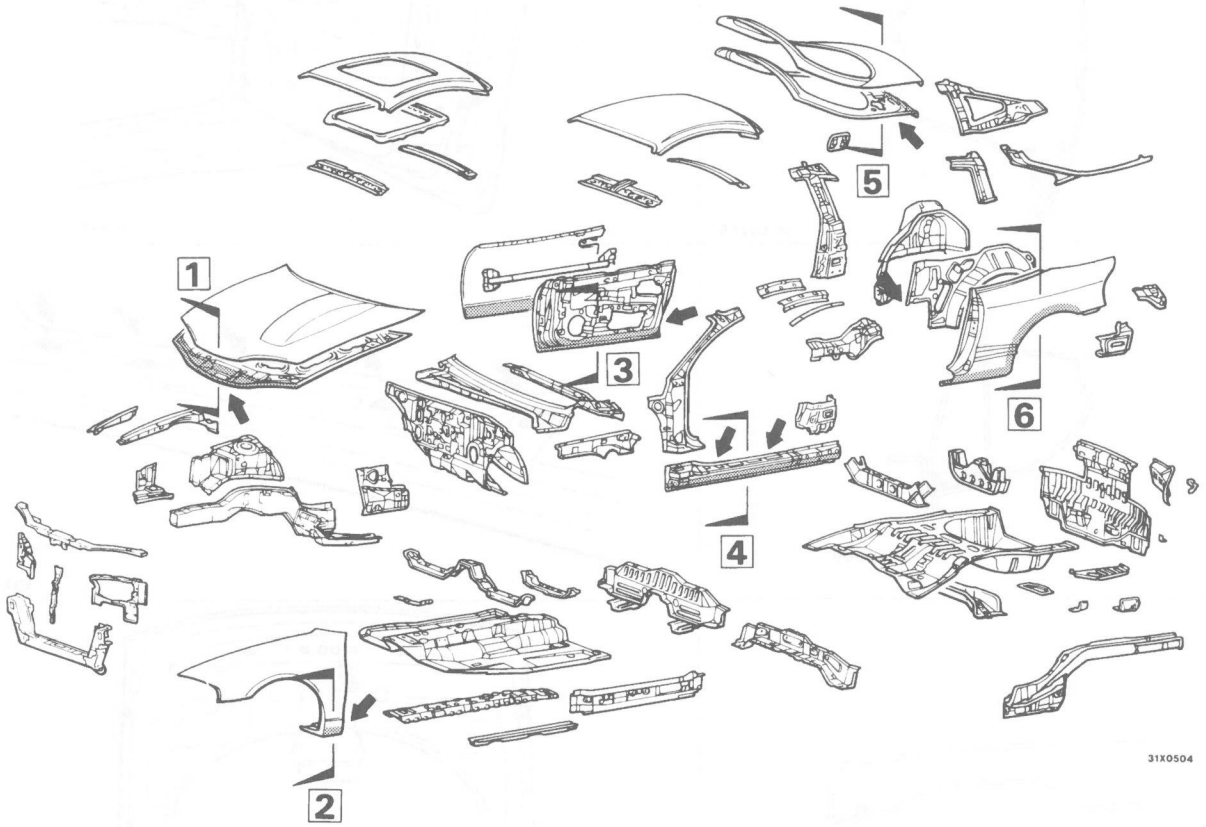
In order to provide greater corrosion resistance, wax injection has been performed for the lower areas of the vehicle, such as the frame, the sled sill, and other panels which are a hollow-construction If any of these panels are replaced, wax injection must be performed for the new parts.

Recommended wax:

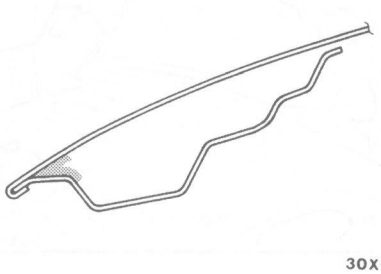
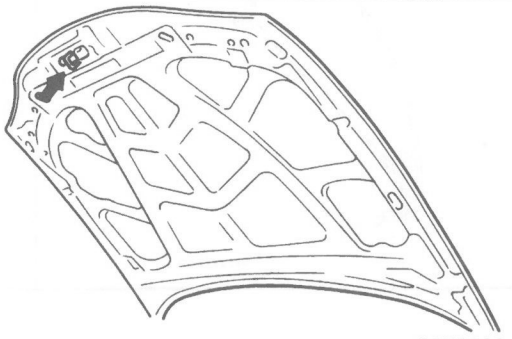
- Tectyl 506, 506T or ML
- Waxoyl
- Dinitrol 3122 or 3654-1
- Mercasol 831-ML
- Terotex
- HV200PLUS or HV300

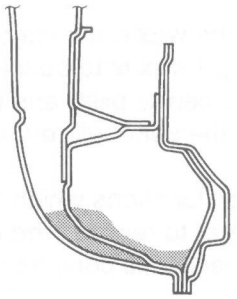
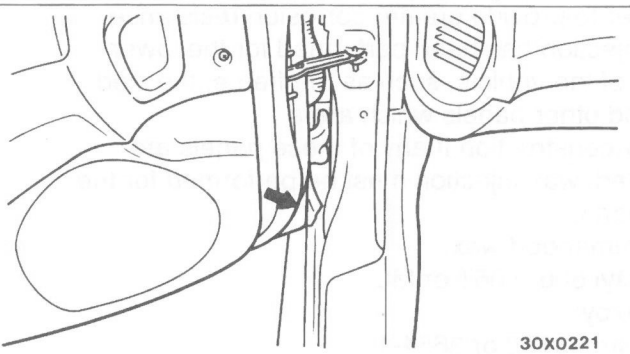
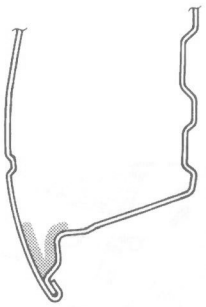
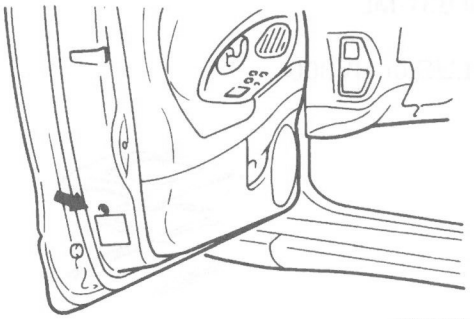
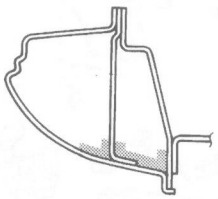
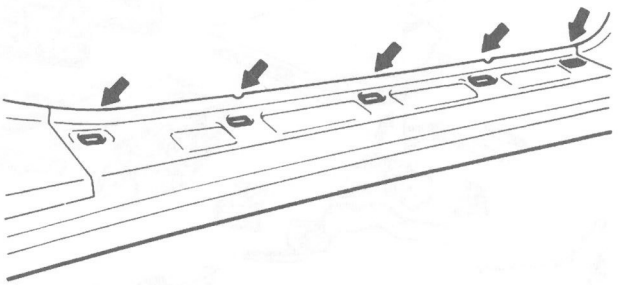
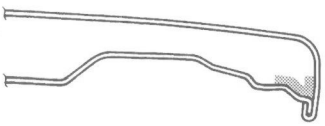
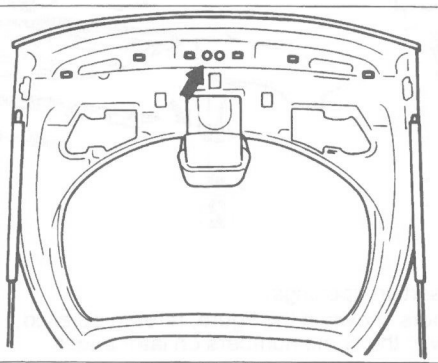
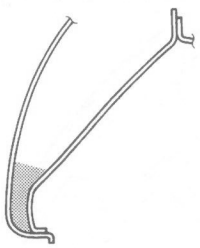
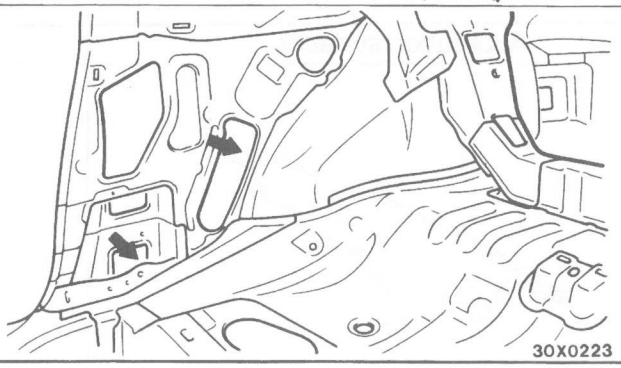
NOTES REGARDING WAX INJECTION WORK

- Be careful that the wax does not get onto other parts. Especially if wax is to be injected into the lower part of the center pillar and into the side sill first remove the seat belt retractor and the door switch.
- For wax injection locations which have a rubber plug, do not forget to reinstall the rubber plug after the wax injection is completed.



NOTES
(1) : Nozzle insertion openings
(2) For the numbers shown in the figure, refer to detailed illustrations with the same numbers on later pages.

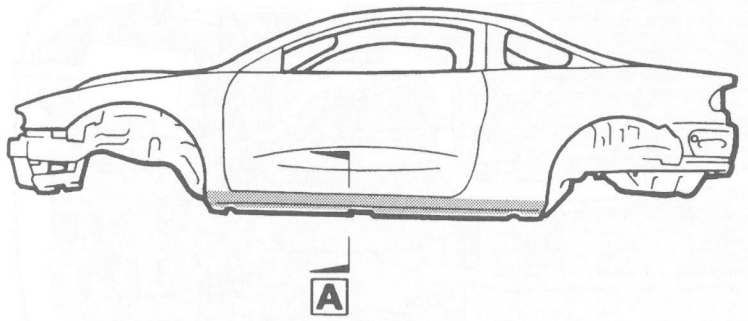
Application surfaces	⬅ : Nozzle insertion openings
1  30X0210	 30X0220

Application surfaces	⬅ : Nozzle insertion openings
2  30X0207	 30X0221
3  30X0209	 30X0218
4  30X0208	 30X0222
5  30X0211	 30X0219
6  30X0212	 30X0223

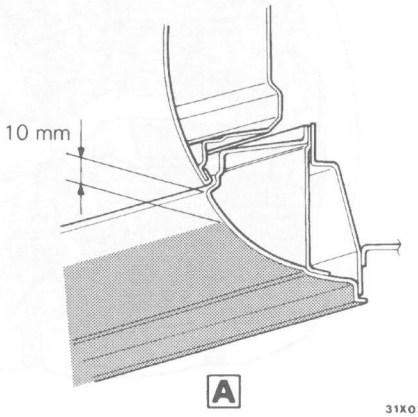
ANTICORROSION PRIMER LOCATIONS

An anticorrosion primer has been applied to the side sill outer panel, the lower edge of the front fender and the lower edge of the outer quarter panel for the purposes of corrosion prevention and abrasion protection. If any of these panels are replaced, apply an anticorrosion primer between the under coat and the second coat, as shown in the following illustrations.

Primer name	Recommended primer	Coating thickness
Rocker panel primer	Glasurit FX89-7330 (polyester basis) or FT90-7103 (water basis) or equivalent	400 μ or more.



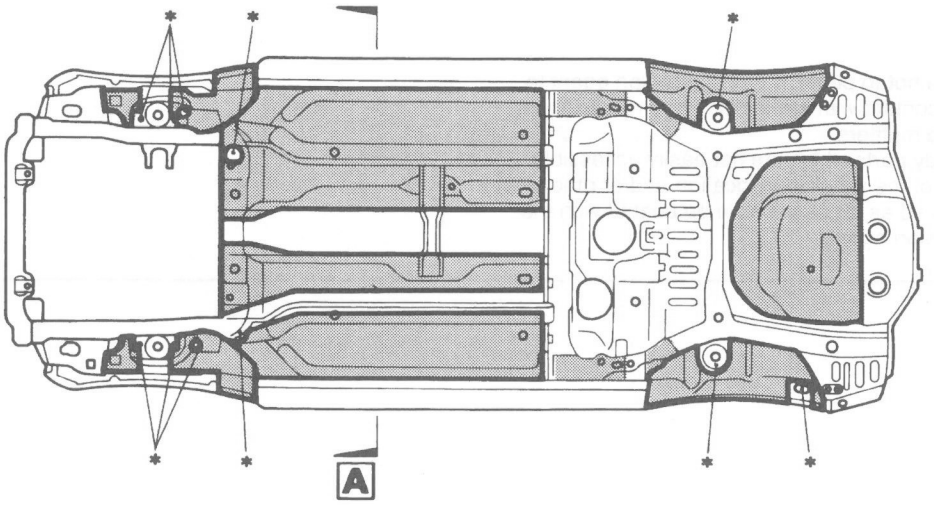
30X0167



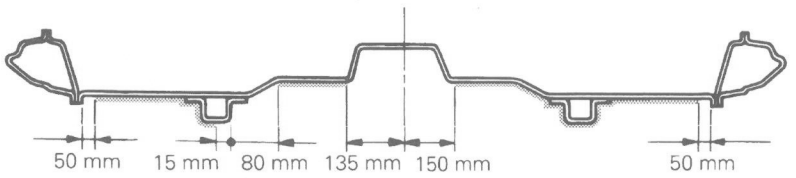
31X0344

UNDERCOAT APPLICATION LOCATIONS

In order to provide rust, corrosion, chipping, and vibration resistance, an undercoat is applied to certain areas of the underbody. After completing body repairs, restore this undercoat if necessary.



30X0169



30X0170

A

NOTE

* Because parts are to be mounted in these locations, mask the location before applying the undercoat.

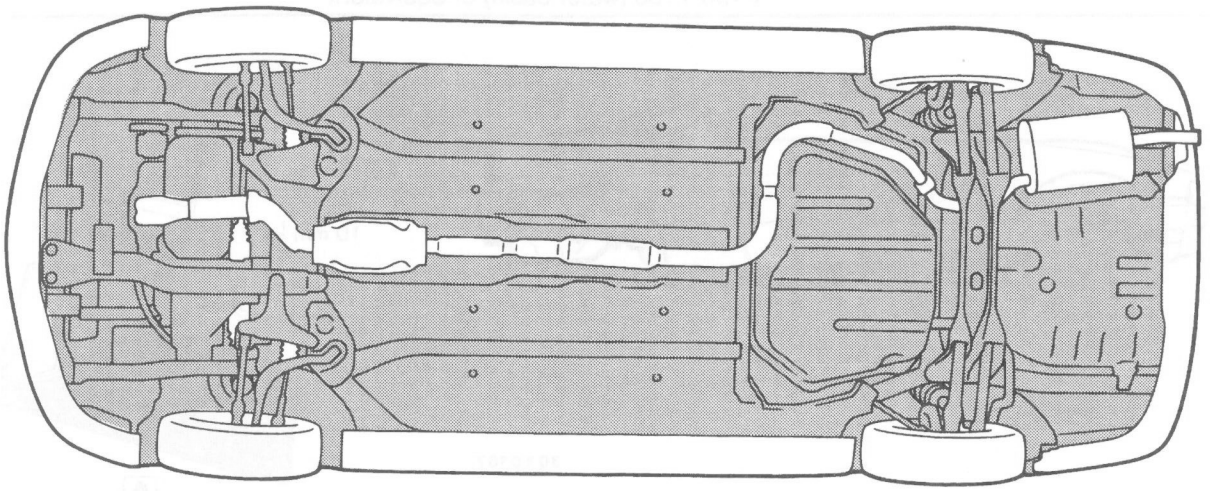
: Polyvinyl chloride base undercoating (film thickness of at least 8 mm)

UNDERBODY ANTICORROSION AGENT LOCATIONS

In order to provide a greater corrosion resistance, underbody corrosion prevention treatment should be performed after undercoat application. After completing body repairs, restore this underbody corrosion prevention treatment as indicated in the illustration if necessary

Recommended agent:

- Tectyl 506T, 506 or S
- Waxoyl
- Dinitrol 4945
- Terotex wax
- Mercasol NON-DRIP



00X0002

: 100 μ or more

NOTE

(1) Take care not to permit the anticorrosion agent to come in contact with brake discs or tyres, exhaust pipes and mufflers.

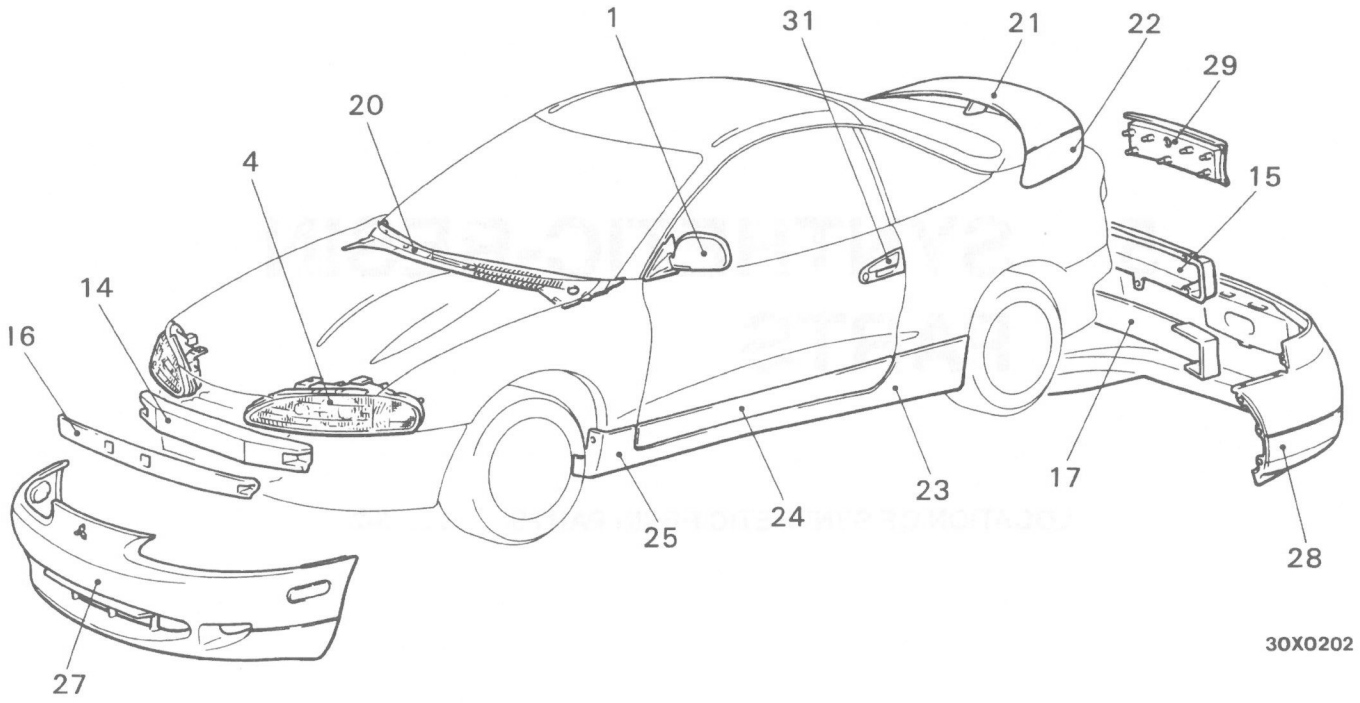
(2) Underbody parts which are not easily accessible because of the installation location and/or other parts should as far as possible be coated with the anticorrosion agent.

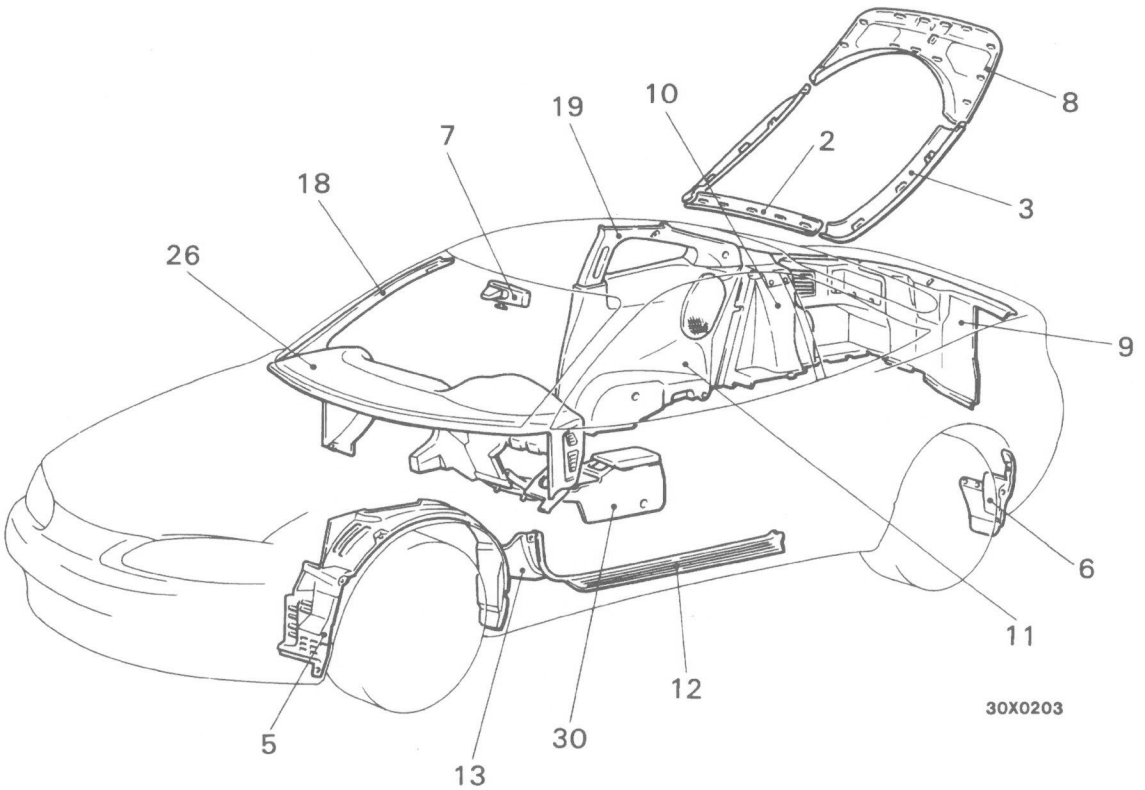
5 SYNTHETIC-RESIN PARTS

LOCATION OF SYNTHETIC RESIN PARTS 5-2

LOCATION OF SYNTHETIC-RESIN PARTS

The location and material of each of the principal synthetic-resin parts are shown below:





No.	Part name	Name of resin	Abbreviation	Heat-withstand temp [°C]
1 2 3	Door mirror Tailgate trim, upper Tailgate trim, side	Acrylonitrile butadiene styrene	ABS	75–105
4	Headlamp	Polycarbonate	PC	130
5 6	Splash shield Splash shield, rear	High density polyethylene	PE-HD	70–90
7 8 9 10 11 12 13 14 15	Inside rear view mirror Tailgate trim, Lower Rear end trim Rear side trim Quarter trim, Lower Scuff plate Cowl side trim Front bumper reinforcement Rear bumper reinforcement	Polypropylene	PP	60–100
16 17	Front bumper core Rear bumper core	Polypropylene foam	PP-E	80
18 19 20	Front pillar trim Quarter trim, upper Front deck garnish	Talc filled polypropylene	PP-TD (PPF)	100–110
21 22 23 24 25 26	Rear air spoiler, centre Rear air spoiler, side Side garnish, rear Door garnish Side garnish, front Instrument panel	Poly phenylene ether	PPE (PPO)	110–130
27 28	Front bumper face Rear bumper face	Glass fiber reinforced RIM urethane	PUR [RIM] (R-RIM)	100–120
29	Rear panel garnish Base Outer	Acrylonitrile butadiene styrene Polymethyl methacrylate	ABS PMMA	75–105 80–100
30	Floor console	Polycarbonate/ Polyethylene terephthalate	PC/PET	130
31	Door outside handle	Polycarbonate/ Polybutylene terephthalate	PC/PBT	130 100–120

NOTES

(1) If the new material symbols designated by the ISO differ from the old symbols. both are given with the old symbol being enclosed in brackets.
ISO: International Organization for Standardization

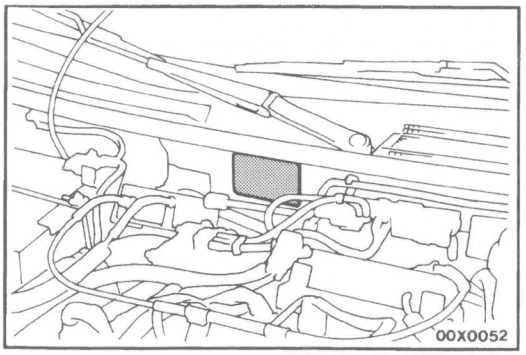
(2) The material symbols for synthetic resin parts are embossed on the parts in hidden places.

(3) A slash (/) in the materials symbol indicates that two different materials make 2-layer construction. A plus sign (+) indicates that the two different materials mix each other.

NOTES

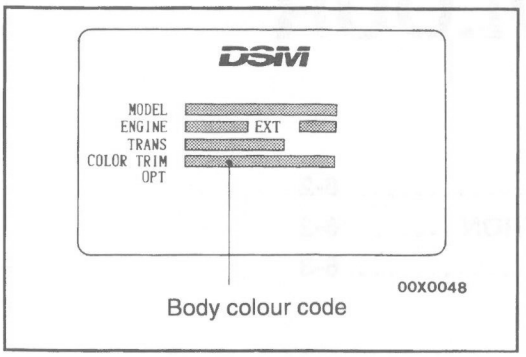
6 BODY COLOUR

BODY COLOUR CODE 6-2
BODY COLOUR CODE INTERPRETATION 6-2
BODY COLOURING 6-3



BODY COLOUR CODE

The body colour code is imprinted on the vehicle information code plate which is mounted on the front deck.



BODY COLOUR CODE INTERPRETATION

The information contained in the body colour code is explained in the body colour charts.

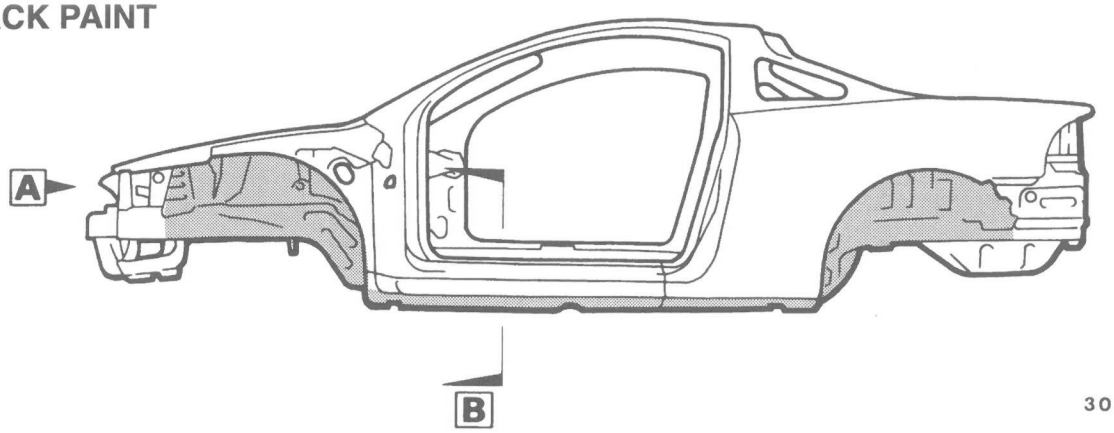
BODY COLOUR CHARTS

Check the vehicle's body colour code, and then use this body colour chart to determine the refinishing paint supplier from which the colour can be purchased.

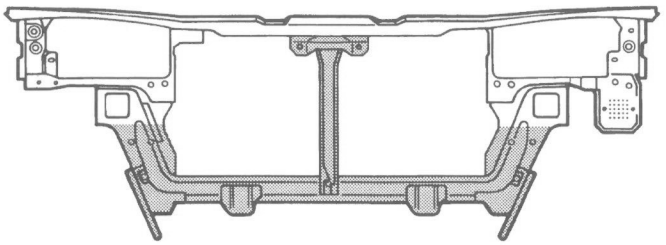
Colour	Body colour code	Colour number
SILVER	A52	AC11052
BLUE	B59	AC 11159
GREEN	G56	AC11156
BLACK	X13	AC10813
OLIVE	L55	AC11155
WHITE	W12	AC10812
COPPER RED	P01	AC11101
RED	R87	AC10987

BODY COLOURING

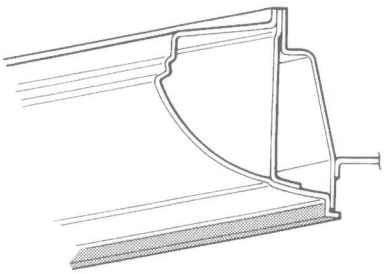
BLACK PAINT



30X0168



33X0311



31X0345

: AC10657 (Black)

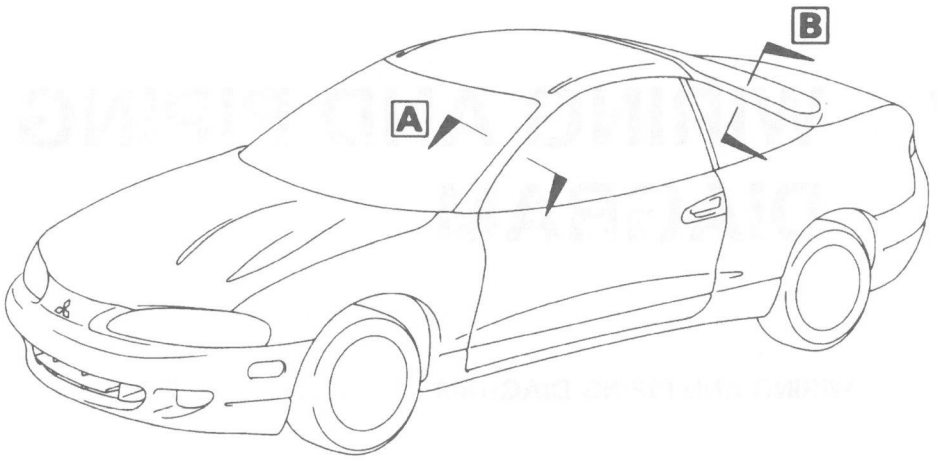
NOTES

7 WIRING AND PIPING DIAGRAM

WIRING AND PIPING DIAGRAM 7-2

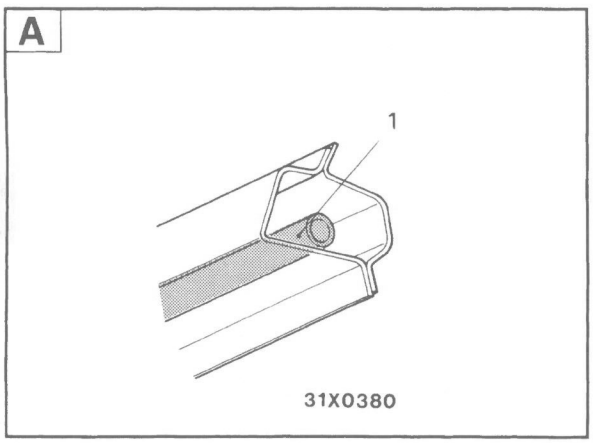
WIRING AND PIPING DIAGRAM

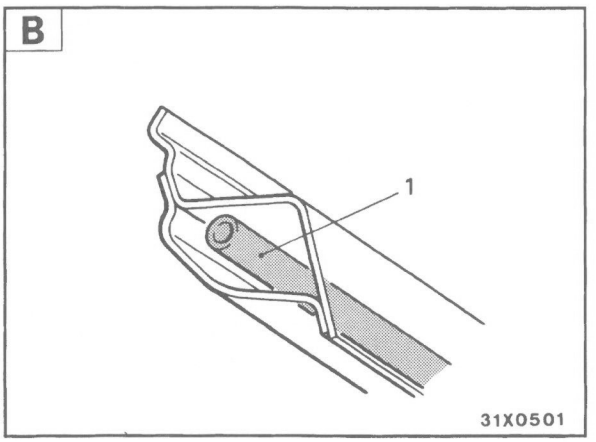
There are hoses routed through closed cross-section structures in some areas of the body; before cutting a panel in any of these areas, be sure to remove the hoses.



18X0623

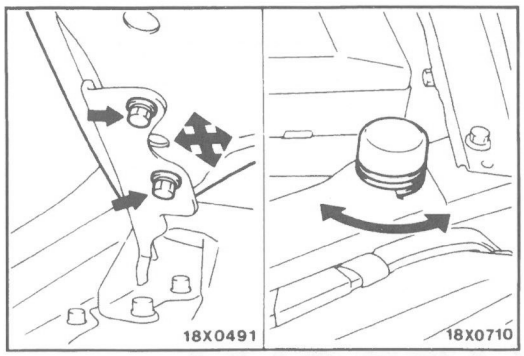
1. Drain hose (Vehicles with sunroof)

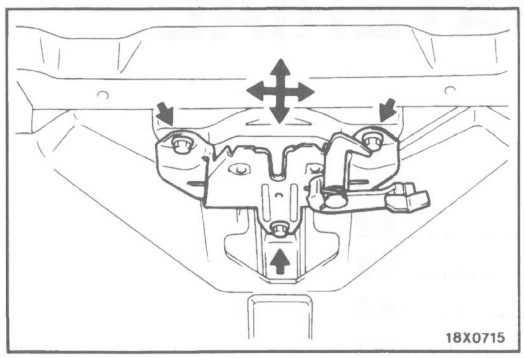


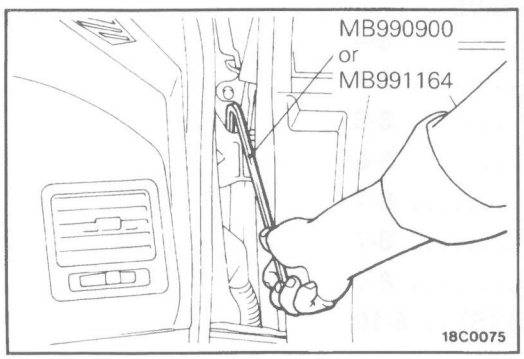


8 REFERENCE MATERIAL

BOLTED PANEL FIT AND ADJUSTMENT 8-2
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DOOR 8-2
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FRONT FOG LAMP AIMING 8-8
SUPPLEMENTAL RESTRAINT SYSTEM (SRS) .. 8-10







BOLTED PANEL FIT AND ADJUSTMENT

HOOD

ADJUSTMENT OF HOOD FIT

(1) Adjust the longitudinal and lateral positions of the hood by utilizing the oblong holes in the hinge.
(2) Turn the hood bumpers either left or right to adjust the height of the hood.
(3) Loosen the hood latch mounting bolts.
(4) Adjust the alignment of the hood striker and the hood latch by adjusting the horizontal and vertical position of the latch and height of the hood.

Hood mounting bolt tightening torque: 12 Nm
Hood latch mounting bolt tightening torque: 9 Nm

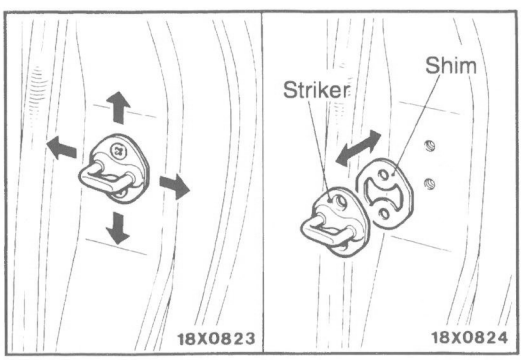
DOOR

ADJUSTMENT OF DOOR FIT

(1) Use the special tool to loosen the hinge mounting bolts on the body side, and then adjust the clearance around the door so that it is uniform on all sides.
(2) If there is a stepped section on the door and body, use the special tool to loosen the door hinge mounting bolts on the door side, and move the door to adjust the door fit.

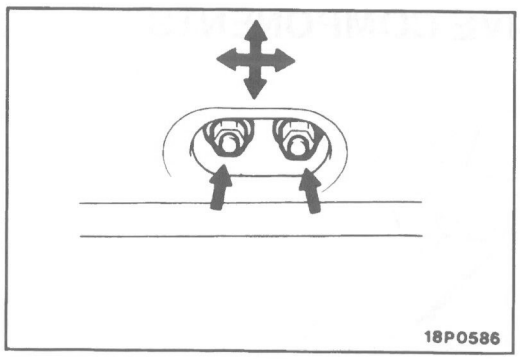
Door hinge mounting bolt tightening torque: 22 Nm

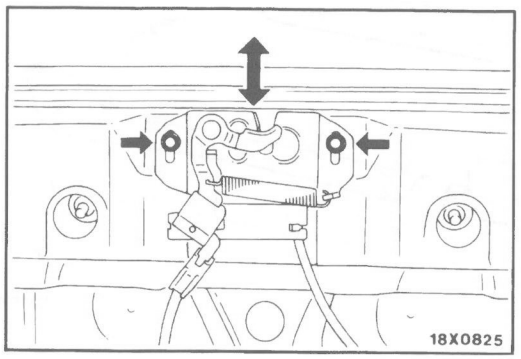
Caution
Attach protection tape to the fender edges where the hinge is installed.

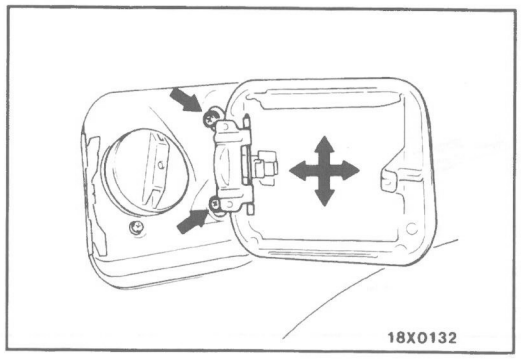


(3) If the opening and closing of the door is stiff, adjust the linkage of the striker and the door latch with striker mounting shim, while moving the striker forward, backwards or sideways.

Striker mounting bolt tightening torque: 22 Nm







TAILGATE

ADJUSTMENT OF TAILGATE FIT

(1) If the gap between the tailgate and body is not even, loosen the tailgate mounting nuts and adjust the tailgate by moving it so the gap around the tailgate is even.

Tailgate hinge mounting nut tightening torque: 14 Nm

(2) If the tailgate is not flush and if it is difficult to lock and unlock, first check the release cable and then loosen the tailgate latch mounting bolts and move the latch to adjust so that it catches with the tailgate striker.

Tailgate latch mounting bolt tightening torque: 9 Nm

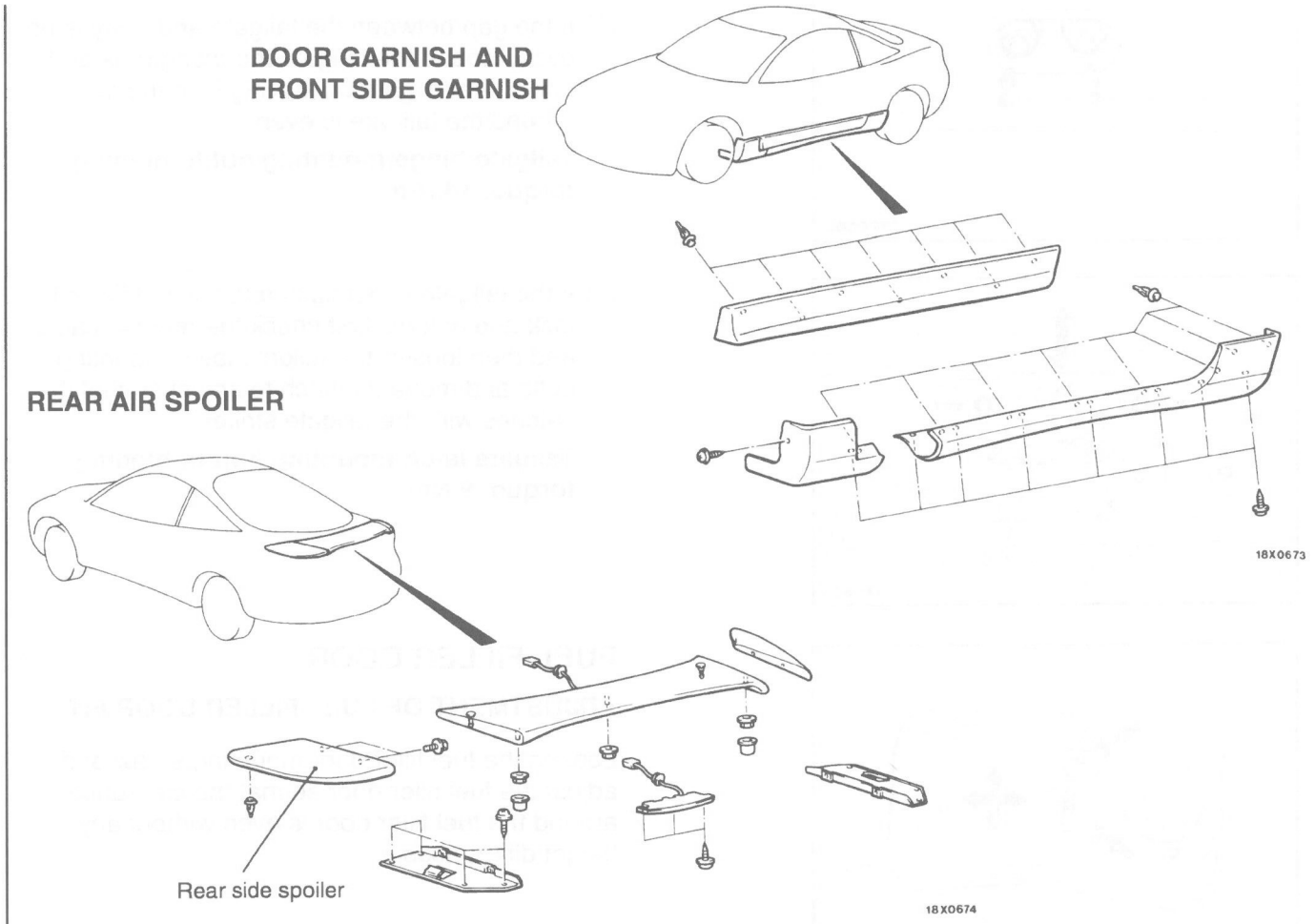
FUEL FILLER DOOR

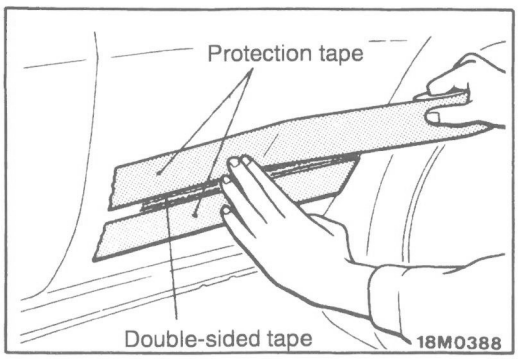
ADJUSTMENT OF FUEL FILLER DOOR FIT

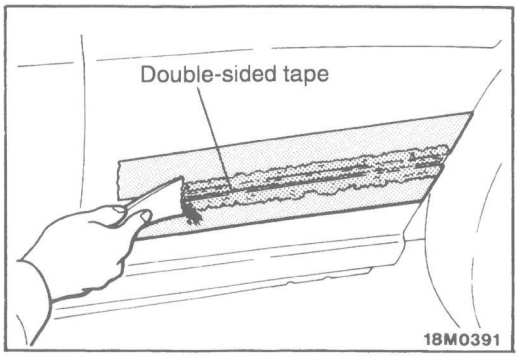
Loosen the fuel filler door mounting screw and adjust the fuel filler door so that the clearance around the fuel filler door is even without any height differences.

INSTALLATION AND REMOVAL OF ADHESIVE COMPONENTS

AERO PARTS



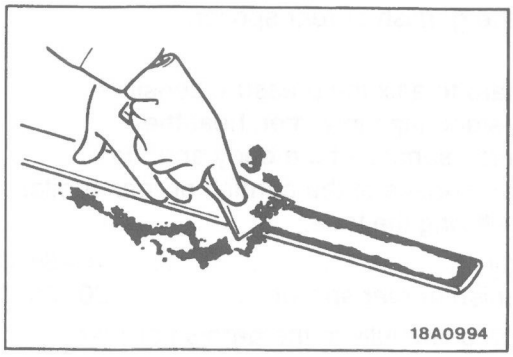




DOOR GARNISH/FRONT SIDE GARNISH/REAR SIDE GARNISH/REAR SIDE SPOILER REMOVAL

(1) Attach protection tape all the way along the edges of the double-sided tape which is still adhering to the body.

(2) Use a resin spatula to scrape off the double-sided tape.
(3) Peel off the protection tape.
(4) Wipe the body surface and clean it with a rag moistened with isopropyl alcohol.

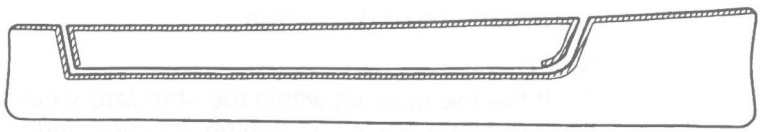

18A0994

DOOR GARNISH/FRONT SIDE GARNISH/REAR SIDE GARNISH/REAR SIDE SPOILER INSTALLATION

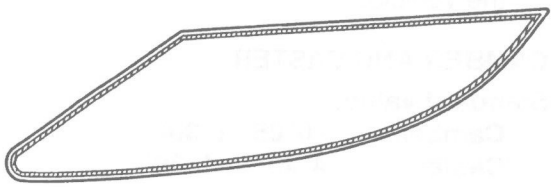
Double-sided tape affixing to the door garnish/side garnish/rear side spoiler (when reusing)

(1) Scrape off the double-sided adhesive tape with a resin spatula or gasket scraper.
(2) Wipe the garnish or rear spoiler adhesion surface and clean it with a rag moistened with isopropyl alcohol.
(3) Apply the specified primer to the places where the tapes are attached and let it dry sufficiently.
Specified primer: 3M ATD Part No. 8608 Super Fast Urethane Primer or equivalent
(4) After applying the primer, let it dry for 3 to 30 minutes.
(5) Affix specified pressure sensitive double-sided tape to the garnish or rear spoiler.

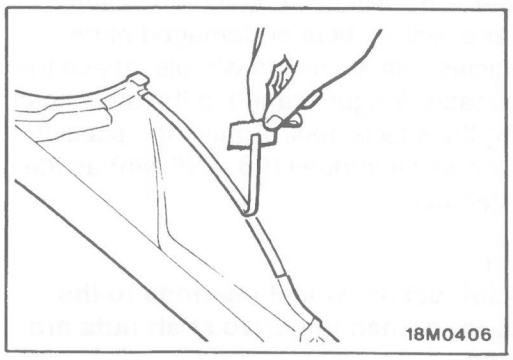
<Door garnish, front side garnish, side garnish>


18X0685

<Rear side spoiler>


18X0695

Adhesive tape:
Double-sided tape
4 mm wide and 1.5 mm thick


18M0406

(6) Remove strip paper from the pressure sensitive double-sided tape.
NOTE
Affix double-sided tape to the end of strip paper for ease of strip paper removal.

(7) Install the garnish or rear spoiler.

NOTE
If it is hard to affix the pressure sensitive double-sided tape in winter, heat the application surface of the body and the adhesive surface of the garnish or rear spoiler before affixing the tape.

Body ..... 40–60°C
Garnish or rear spoiler ..... 20–30°C

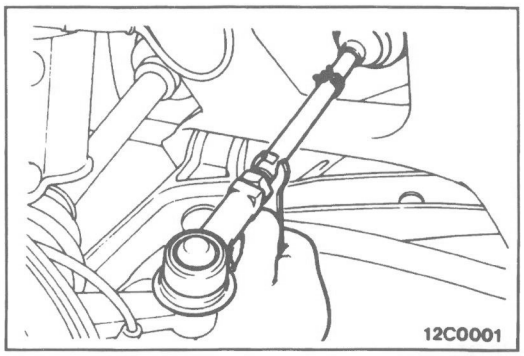
Apply pressure fully to the garnish or rear spoiler.

ADJUSTMENT OF OTHER PARTS

FRONT WHEEL ALIGNMENT

Measure wheel alignment with alignment equipment on a level surface.
The front suspension, steering system, and wheels should be serviced to normal condition prior to measurement of wheel alignment.

TOE-IN

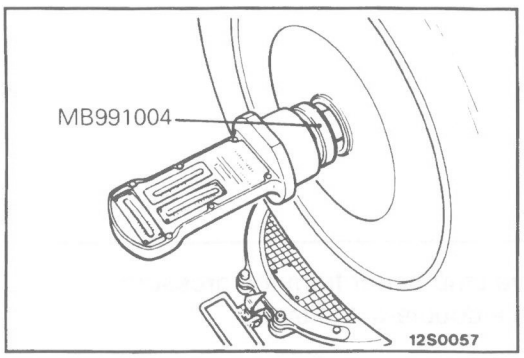


Check that the rear suspension wheel alignment is normal before carrying out toe-in adjustment.

Standard value: 0 ± 3 mm

NOTE
1. If the toe-in is not within the standard value, adjust the toe-in by undoing the clips and turning the left and right tie rod turnbuckles by the same amount (in opposite directions).
2. The toe will move out as the left turnbuckle is turned towards the front of the vehicle and the right turnbuckle is turned towards the rear of the vehicle.

CAMBER AND CASTER



Standard value:

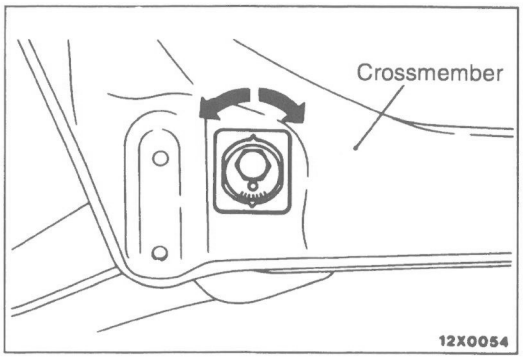
Camber	**–0°05′ ± 30′**
Caster	**4°40′ ± 1°30′**

NOTE
1. Camber and caster are preset at the factory and cannot be adjusted.
2. If camber is not within the standard value, check and replace bent or damaged parts.
3. For vehicles with aluminum wheels, attach the camber/caster/kingpin gauge to the drive shaft by using the special tool. Tighten the special tool to the same torque (196–255 Nm) as the drive shaft nut.

Caution
Never subject the wheel bearings to the vehicle load when the drive shaft nuts are loosened.

REAR WHEEL ALIGNMENT

Measure wheel alignment with alignment equipment on level ground.
The rear suspension and wheels should be serviced to the normal condition prior to wheel alignment.



TOE-IN

Standard value: 3 ± 3 mm

Adjustment is carried out by turning the toe control arm mounting bolt to the left or right by equal amounts.

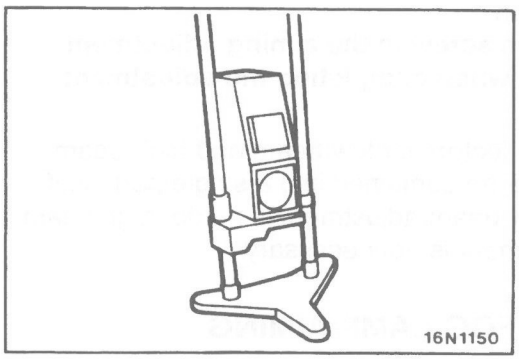
L.H.: Turning clockwise toe-out direction
R.H.: Turning clockwise toe-in direction

Furthermore toe adjustment can be made at graduations of approximately 1.3 mm.

CAMBER

Standard value: –1°20′ ± 30′

NOTE
1. Camber is preset at the factory and can not be adjusted.
2. If camber is not within the standard value, check and replace bent or damaged parts.



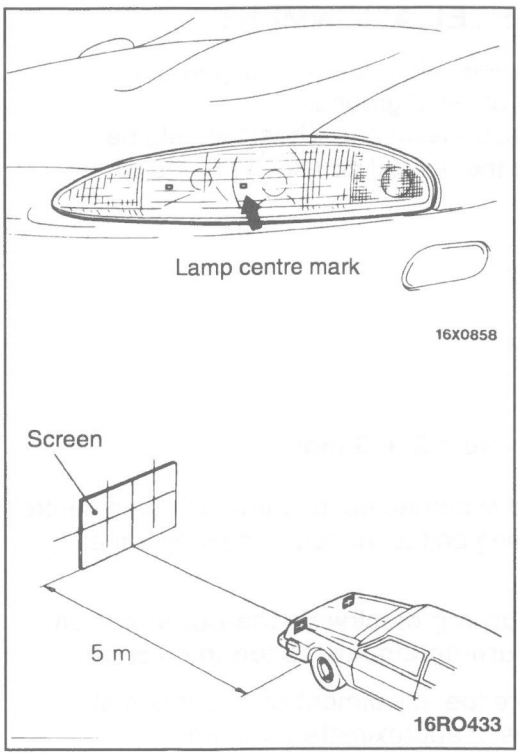
HEADLAMP AIMING

<USING A BEAMSETTING EQUIPMENT>

1. The headlamps should be aimed with the proper beamsetting equipment and in accordance with the equipment manufacturers instructions.

   NOTE
   If there are any regulations pertinent to the aiming of headlamps in the area where the vehicle is to be used adjust so as to meet those regulations.

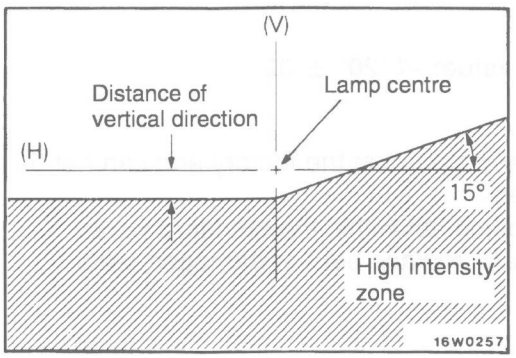
2. Alternately turn the adjusting screw to adjust the headlamp aiming.



<USING A SCREEN>

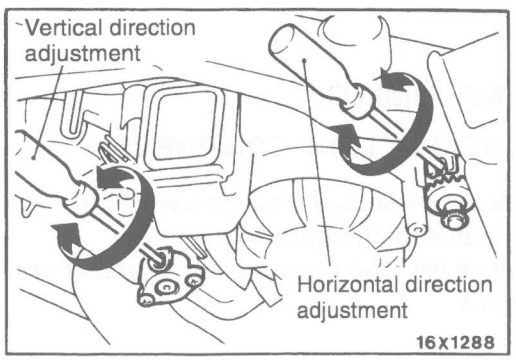
1. Inflate the tyres to the specified pressures and there should be no other load in the vehicles other than driver or substituted weight of approximately 75 kg placed in drivers position.
2. Set the distance between the screen and the lamp centre mark of the headlamps as shown in the illustration.

   NOTE
   The lamp centre mark (□ mark) is engraved on the outer lens.



3. Check if the beam shining onto the screen is at the standard value.

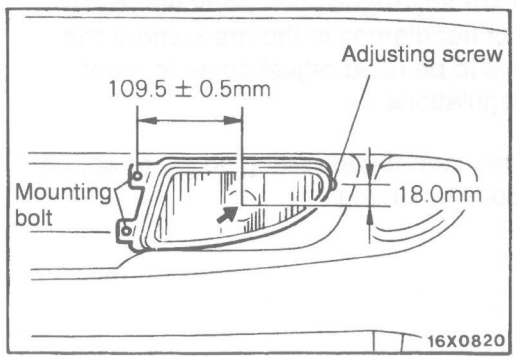
   Standard value:
   (Vertical direction)
   60 mm below horizontal (H)
   (Horizontal direction)
   Position where the 15° sloping section intersects the vertical line (V)



4. Alternately turn the adjusting screw to adjust the headlamp aiming.

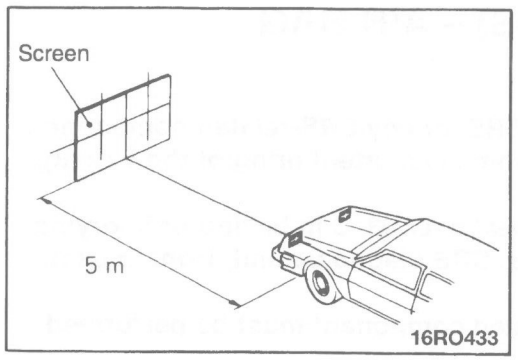
   Caution
   Always screw in the aiming adjustment screw when completing the adjustment.

   NOTE
   The reflectors for low beam and high beam have been combined into a single part, so if the low beam adjustment is made, high beam adjustment is not necessary.

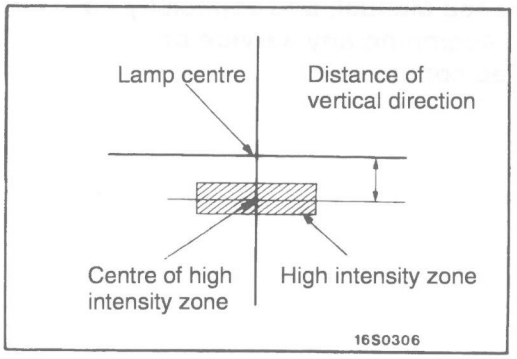


FRONT FOG LAMP AIMING

(1) Measure the centre of the fog lamps, as shown in the illustration.

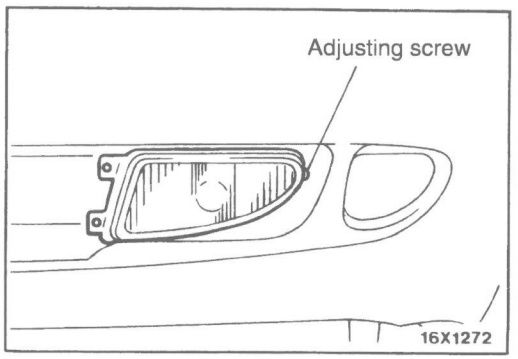


(2) Set the distance between the screen and the centre of the fog lamps as shown in the illustration.
(3) Inflate the tyres to the specified pressures and there should be no other load in the vehicles other than driver or substituted weight of approximately 75 kg placed in the drivers position.
(4) With the engine running at 2,000 r/min., aim the fog lamp.



(5) Check if the beam shining onto the screen is at the standard value.

Standard value:
(Vertical direction)
100 mm below horizontal (H)
(Horizontal direction)
Parallel to direction of vehicle travel



NOTE
The horizontal direction is non-adjustable. If the deviation of the light beam axis exceeds the standard value check to be sure that the mounting location or some other point is not defective.

Caution
When making the aiming adjustment, be sure to mask those lamps which are not being adjusted.

SUPPLEMENTAL RESTRAINT SYSTEM (SRS) – AIR BAG

WARNING!

(1) Improper service or maintenance of any component of the SRS, or any SRS-related component, can lead to personal injury or death to service personnel (from inadvertent firing of the air bag) or to the driver (from rendering the SRS inoperative).

(2) If it is possible that the SRS components are subjected to heat over 93°C in baking or in drying after painting, remove the SRS components (air bag module, SRS diagnosis unit, front impact sensors) beforehand.

(3) Service or maintenance of any SRS component or SRS-related component must be performed only at an authorized MITSUBISHI dealer.

(4) MITSUBISHI dealer personnel must thoroughly review Workshop Manual, and especially its GROUP 52B – Supplemental Restraint System (SRS), before beginning any service or maintenance of any component of the SRS or any SRS-related component.