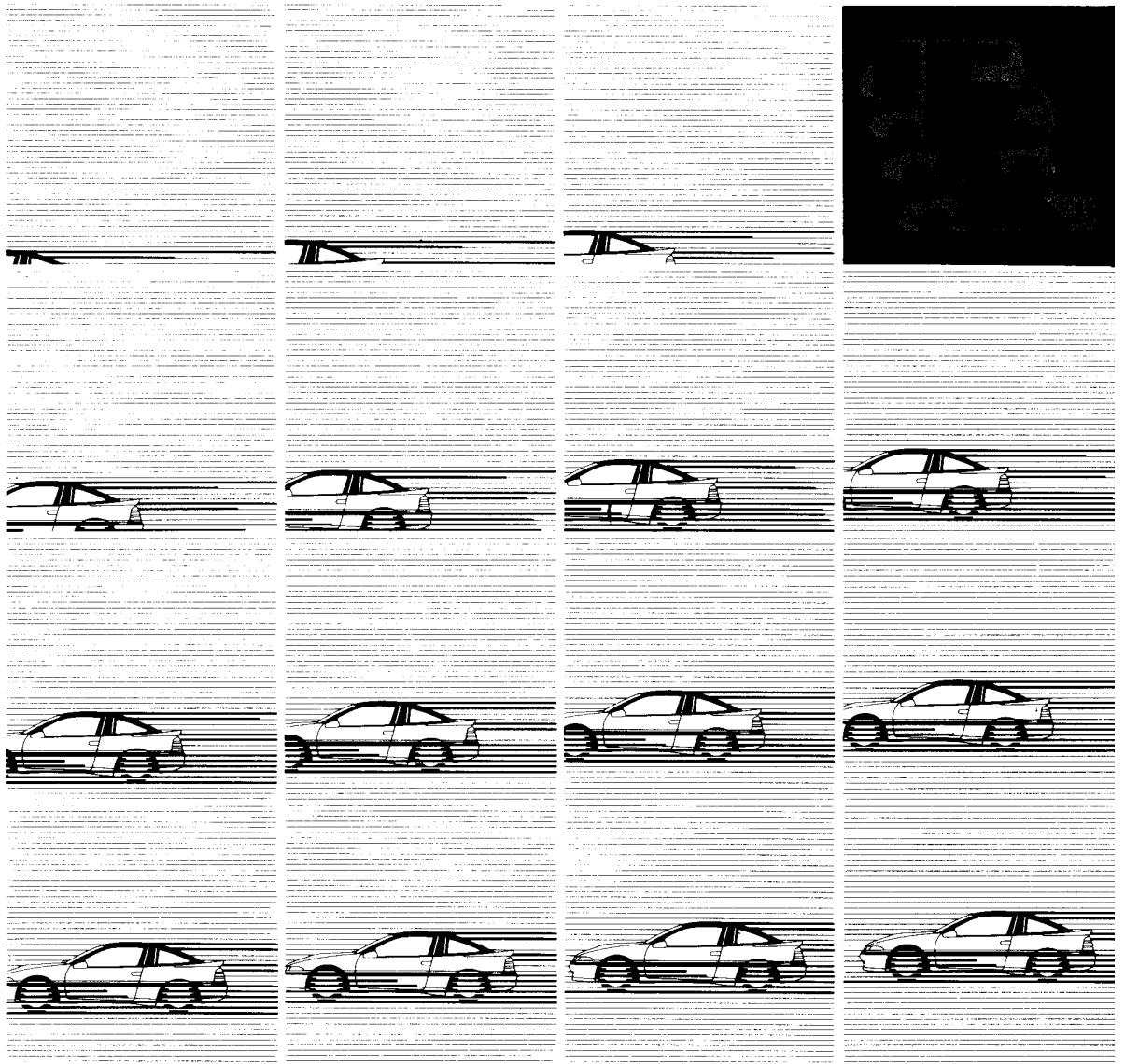




Body Repair Manual

ECLIPSE '91



ECLIPSE

BODY REPAIR MANUAL

FOREWORD

This manual has been prepared for the use of all service mechanics engaged in the body repair service of the ECLIPSE.

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 maximize 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.

Mitsubishi Motors Corporation reserves 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.

GENERAL

0

BODY CONSTRUCTION

1

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2

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REPLACEMENT**

3

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4

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5

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6

WIRING AND PIPING DIAGRAM

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0 GENERAL

VEHICLE IDENTIFICATION	0-2
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VEHICLE IDENTIFICATION

MODELS

Model code		Engine model	Transmission model
D22A	MNHMLF6	4G63	F5M31 (2WD-5 M/T)
D27A	MNGMLF6		W5M33 (4WD-5 M/T)

MAJOR SPECIFICATIONS

Items	D22A	D27
	MNHMLF6	MNGMLF6
Dimensions mm (in.)		
Overall length	4,340 (170.9)	4,395 (173.0)
Overall width	1,690 (66.5)	1,690 (66.5)
Overall height	1,300 (51.2)	1,315 (51.8)
Wheelbase	2,470 (97.2)	2,470 (97.2)
Track-front	1,460 (57.5)	1,460 (57.5)
Track-rear	1,450 (57.1)	1,450 (57.1)
Body overhang		
Front	870 (34.3)	870 (34.3)
Rear	820 (32.3)	820 (32.3)
Ground clearance	150 (5.9)	150 (5.9)
Wheel alignment		
Front wheel alignment		
Toe-in mm (in.)	0 ± 3 (0 ± 0.118)	0 ± 3 (0 ± 0.118)
Camber	0°15' ± 30'	0° ± 30'
Caster	2°20' ± 30'	2°18' ± 30'
Kingpin inclination angle	14°06'	14°06'
Rear wheel alignment		
Toe-in mm (in.)	0 ± 3 (0 ± 0.118)	5 ± 3 (0.196 ± 0.118)
Camber	- 45' ± 14'	- 1°45' ± 30'
Wheels and tyres		
Tyre size	195/60R15-87V	195/60R15-87V
Wheel size	15 × 5.5 JJ	15 × 5.5JJ
Offset mm (in.)	46 (1.8)	46 (1.8)

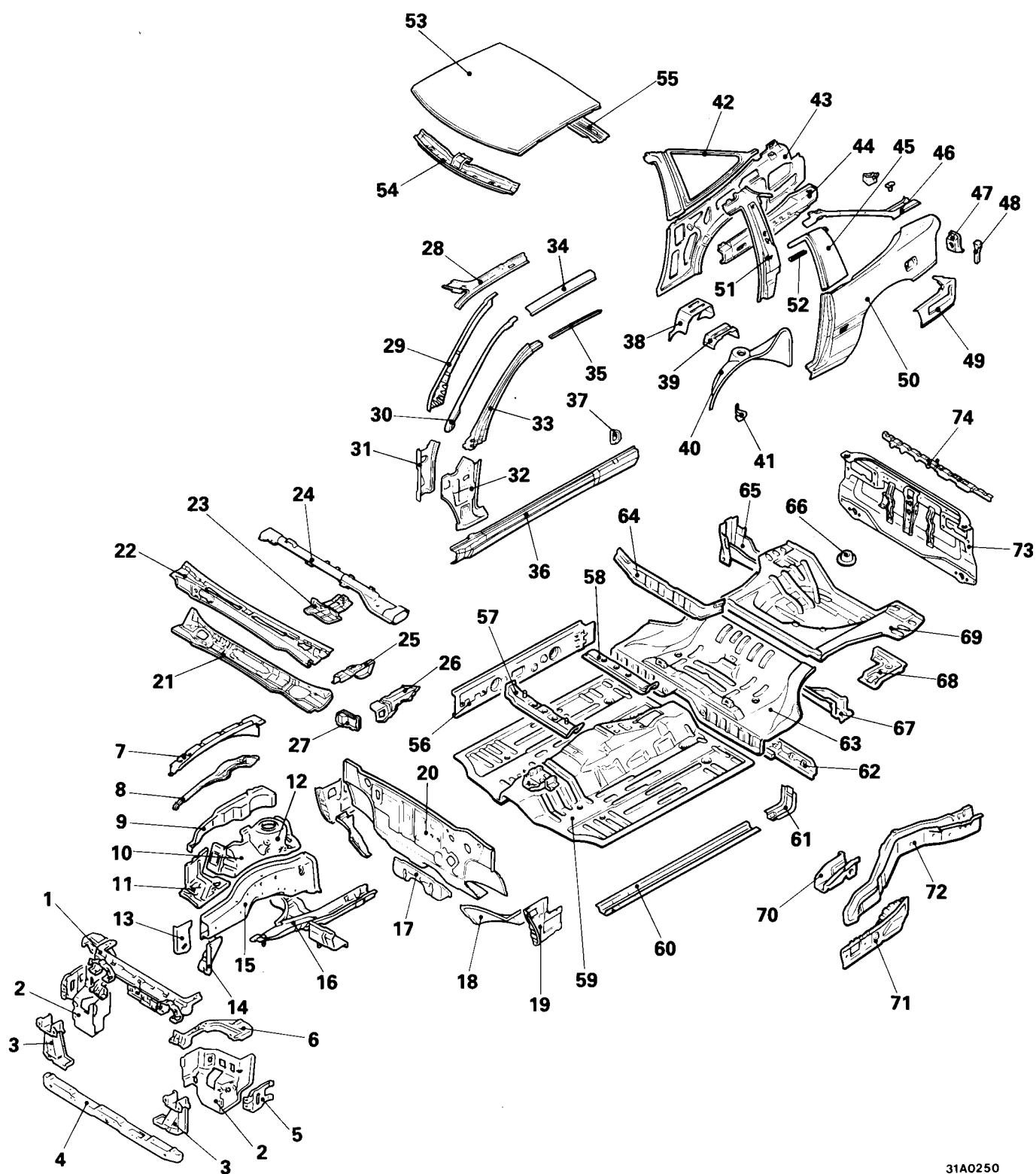
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BODY CONSTRUCTION

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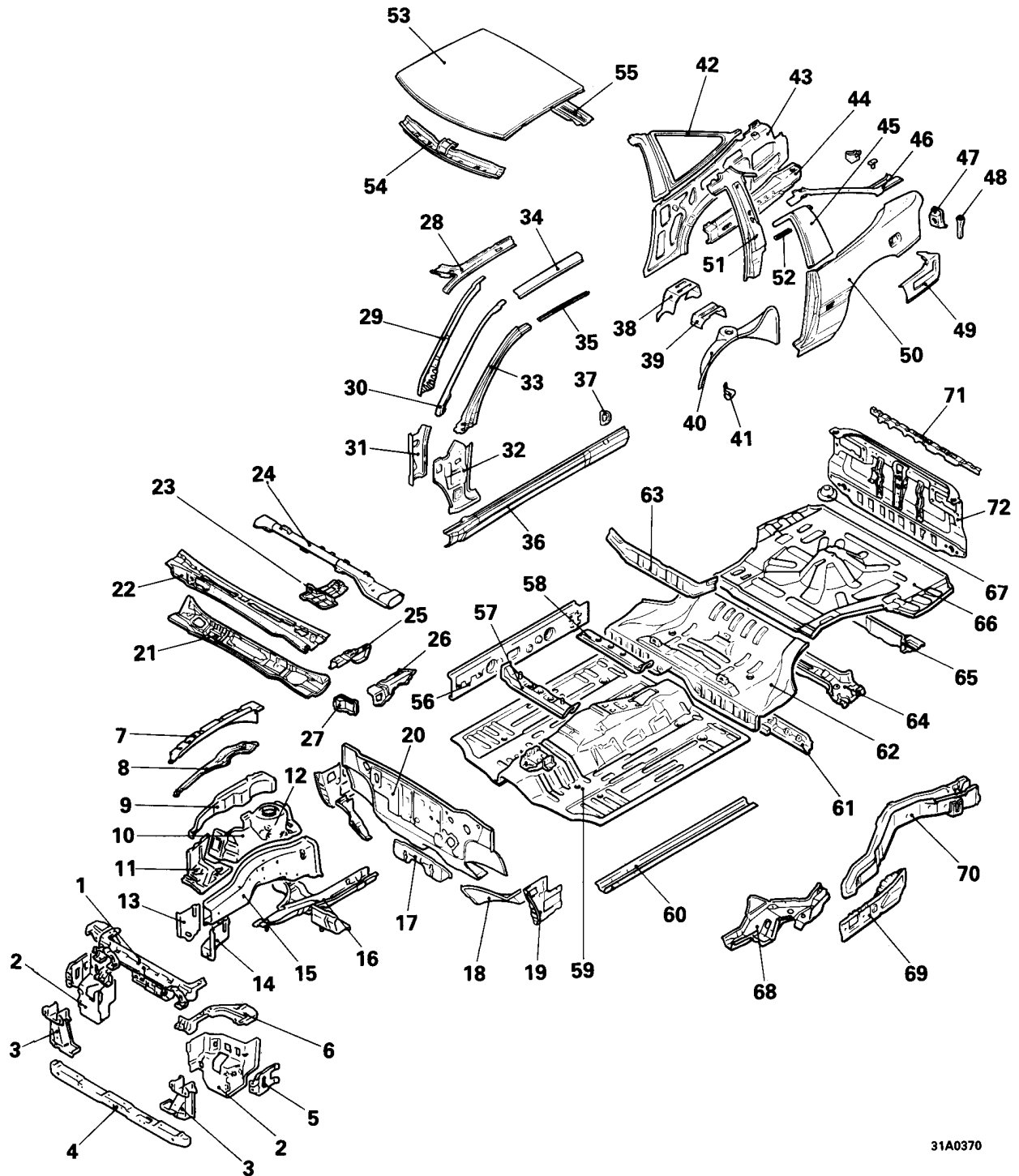
BODY COMPONENTS

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- | | |
|--|---------------------------------------|
| 1 Front end upper bar | 38 Shelf corner bracket |
| 2 Headlamp support panel | 39 Seat striker reinforcement |
| 3 Sidemember to crossmember brace | 40 Rear wheelhouse, inner |
| 4 Front end crossmember | 41 Rear wheelhouse front extension |
| 5 Fender support panel | 42 Quarter panel, inner, upper |
| 6 Front end upper bar reinforcement | 43 Quarter panel, inner, lower |
| 7 Front upper frame, outer | 44 Beltline reinforcement |
| 8 Front upper frame, lower | 45 Center pillar, outer |
| 9 Front upper frame, inner | 46 Rear pillar, outer |
| 10 Front fender shield | 47 Rear lamp housing |
| 11 Shield plate | 48 Rear lamp housing extension |
| 12 Strut house panel | 49 Quarter outer lower extension |
| 13 Front tie down bracket, outer | 50 Quarter panel, outer |
| 14 Front tie down bracket, inner | 51 Center pillar reinforcement, upper |
| 15 Front sidemember | 52 Roof drip channel extension |
| 16 Front sidemember, rear | 53 Roof panel |
| 17 Dash panel crossmember | 54 Front roof rail |
| 18 Dash panel extension | 55 Rear roof rail |
| 19 Front floor side sill, inner, front | 56 Front floor side sill, inner |
| 20 Dash panel | 57 Front floor crossmember, front |
| 21 Cowl top panel, inner | 58 Front floor crossmember, rear |
| 22 Cowl top panel, outer | 59 Front floor pan |
| 23 Steering column support bracket | 60 Front floor sidemember |
| 24 Front deck crossmember | 61 Front floor sidemember extension |
| 25 Front upper frame extension, inner | 62 Rear seat crossmember |
| 26 Front upper frame extension, outer | 63 Rear seat pan |
| 27 Upper frame extension silencer | 64 Rear floor crossmember, upper |
| 28 Roof side rail, inner | 65 Lateral rod bracket |
| 29 Front pillar, inner, upper (A) | 66 Spare tire bracket |
| 30 Front pillar, inner, upper (B) | 67 Rear floor crossmember, lower |
| 31 Front pillar, inner, lower | 68 Jack up reinforcement |
| 32 Front pillar, outer, lower | 69 Rear floor pan |
| 33 Front pillar, outer, upper | 70 Trailing arm bracket |
| 34 Roof side rail, outer | 71 Rear floor side sill |
| 35 Roof drip channel | 72 Rear floor sidemember |
| 36 Front floor side sill, outer | 73 Rear end panel |
| 37 Side sill silencer | 74 Rear fascia bracket, upper |

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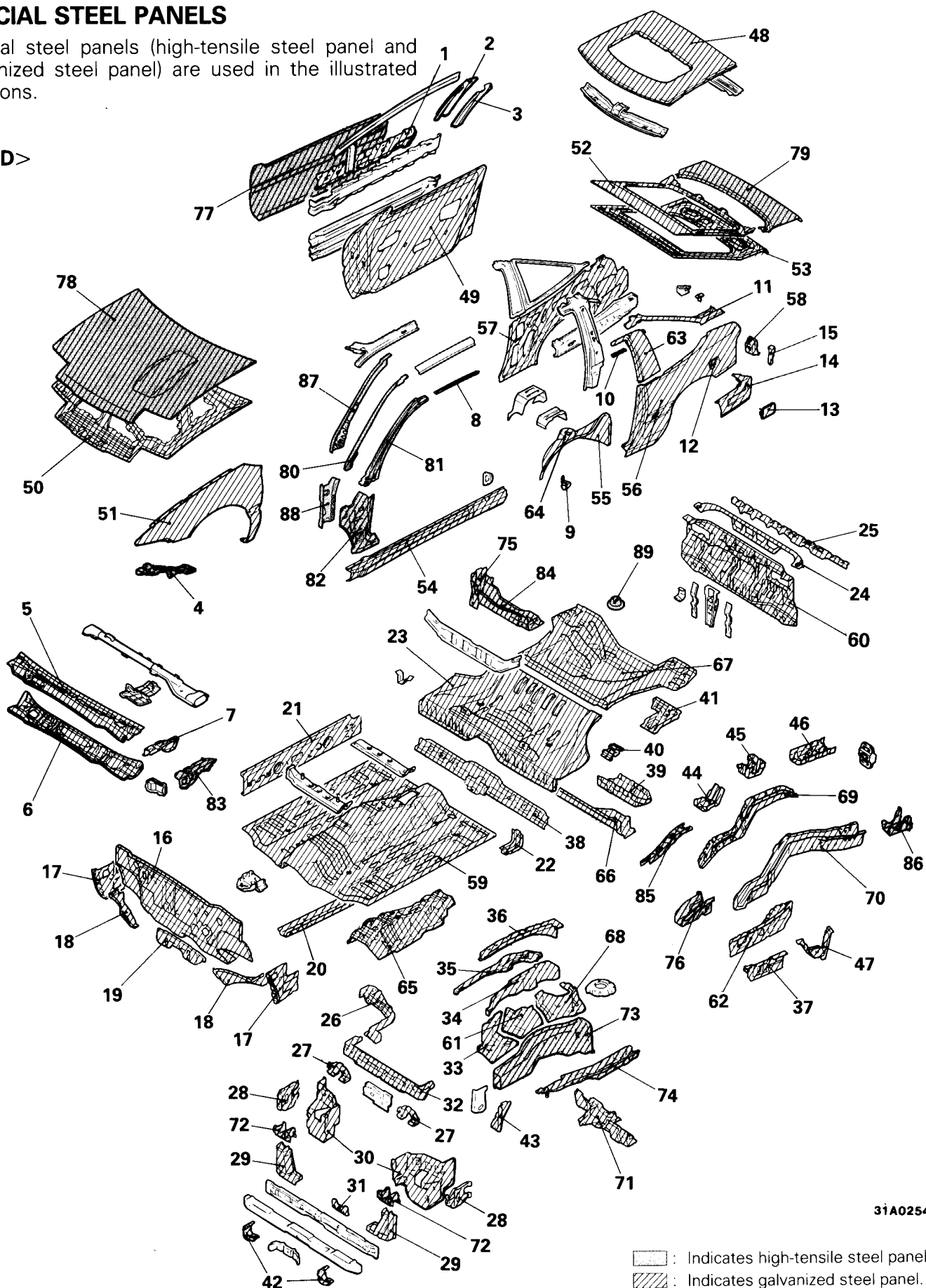
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|--|--|
| 1 Front end upper bar | 37 Side sill silencer |
| 2 Headlamp support panel | 38 Shelf corner bracket |
| 3 Sidemember to crossmember brace | 39 Seat striker reinforcement |
| 4 Front end crossmember | 40 Rear wheelhouse, inner |
| 5 Fender support panel | 41 Rear wheelhouse front extension |
| 6 Front end upper bar reinforcement | 42 Quarter panel, inner, upper |
| 7 Front upper frame, outer | 43 Quarter panel, inner, lower |
| 8 Front upper frame, lower | 44 Beltline reinforcement |
| 9 Front upper frame, inner | 45 Center pillar, outer |
| 10 Front fender shield | 46 Rear pillar, outer |
| 11 Shield plate | 47 Rear lamp housing |
| 12 Strut house panel | 48 Rear lamp housing extension |
| 13 Front tie down bracket, outer | 49 Quarter outer lower extension |
| 14 Front tie down bracket, inner | 50 Quarter panel, outer |
| 15 Front sidemember | 51 Center pillar reinforcement, upper |
| 16 Front sidemember, rear | 52 Roof drip channel extension |
| 17 Dash panel crossmember | 53 Roof panel |
| 18 Dash panel extension | 54 Front roof rail |
| 19 Front floor side sill, inner, front | 55 Rear roof rail |
| 20 Dash panel | 56 Front floor side sill, inner |
| 21 Cowl top panel, inner | 57 Front floor crossmember, front |
| 22 Cowl top panel, outer | 58 Front floor crossmember, rear |
| 23 Steering column support bracket | 59 Front floor pan |
| 24 Front deck crossmember | 60 Front floor sidemember |
| 25 Front upper frame extension, inner | 61 Rear seat crossmember |
| 26 Front upper frame extension, outer | 62 Rear seat pan |
| 27 Upper frame extension silencer | 63 Rear floor crossmember, upper |
| 28 Roof side rail, inner | 64 Rear floor crossmember, lower |
| 29 Front pillar, inner, upper (A) | 65 Rear end crossmember |
| 30 Front pillar, inner, upper (B) | 66 Rear floor pan |
| 31 Front pillar, inner, lower | 67 Spare tire bracket |
| 32 Front pillar, outer, lower | 68 Rear floor sidemember front extension |
| 33 Front pillar, outer, upper | 69 Rear floor side sill |
| 34 Roof side rail, outer | 70 Rear floor sidemember |
| 35 Roof drip channel | 71 Rear fascia bracket, upper |
| 36 Front floor side sill, outer | 72 Rear end panel |

BODY CONSTRUCTION CHARACTERISTICS

SPECIAL STEEL PANELS

Special steel panels (high-tensile steel panel and galvanized steel panel) are used in the illustrated positions.

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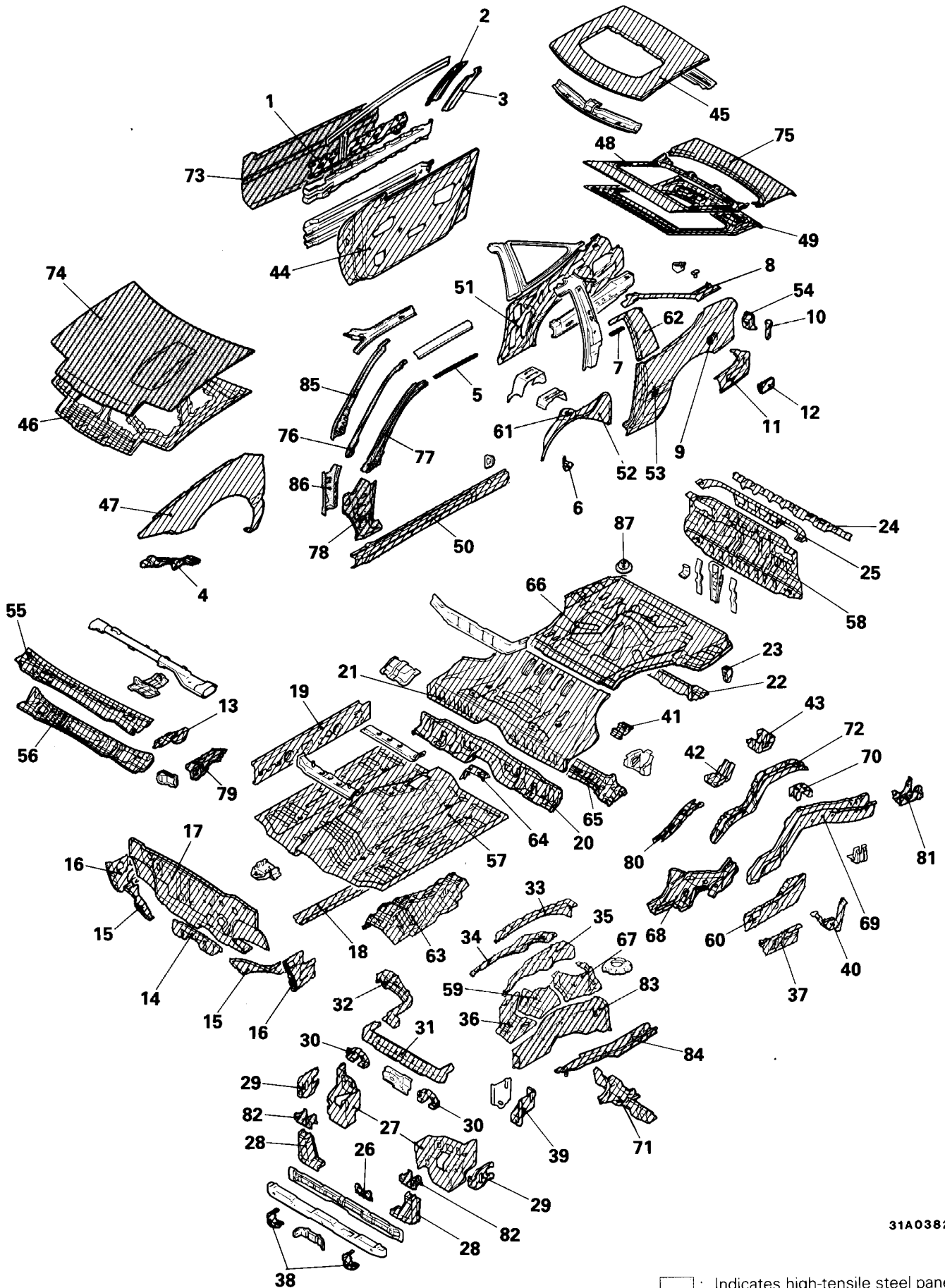


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No.	Part name	Material	No.	Part name	Material
1	Front door beltline reinforcement, outer	SGACC	48	Roof panel (for sun roof)	SGACE
2	Front door, outer, rear		49	Front door inner panel	
3	Front door, inner, rear		50	Hood panel, inner	
4	Front fender bracket		51	Front fender panel	
5	Cowl top panel, outer		52	Tailgate panel, outer, upper	
6	Cowl top panel, inner		53	Tailgate panel, inner	
7	Front upper extension, inner		54	Front floor side sill, outer	
8	Roof drip channel		55	Rear wheelhouse, inner	
9	Rear wheelhouse front extension		56	Quarter panel, outer	
10	Roof drip channel extension		57	Quarter panel, inner, lower	
11	Rear pillar, outer		58	Rear lamp housing	
12	Fuel filler neck bracket		59	Front floor pan	
13	Fuel filler door panel		60	Rear end panel, inner	SENCE
14	Quarter outer lower extension		61	Front fender shield	
15	Rear lamp housing extension		62	Rear floor side sill	
16	Dash panel		63	Center pillar, outer	
17	Front floor side sill, inner, front		64	Spring house panel	
18	Dash panel extension		65	Backbone rear reinforcement	
19	Dash panel crossmember		66	Rear floor crossmember, lower	
20	Front floor sidemember		67	Rear floor pan	
21	Front floor side sill, inner		68	Strut house panel	
22	Front floor sidemember extension		69	Rear floor sidemember reinforcement	
23	Rear seat pan		70	Rear floor sidemember	
24	Rear end panel, outer		71	Front sidemember, rear	SENHC
25	Rear fascia upper bracket		72	Bumper bracket	SENC35R
26	Front end upper bar reinforcement		73	Front sidemember, inner	
27	Turn lamp bracket		74	Front sidemember rear reinforcement	
28	Fender support plate		75	Lateral rod bracket	SENP38
29	Sidemember to crossmember brace		76	Trailing arm bracket	
30	Headlamp support panel		77	Front door panel, outer	SGAC35R
31	Oil cooler bracket		78	Hood panel, outer	
32	Front end upper bar		79	Tailgate panel, outer, lower	
33	Shield plate		80	Front pillar, inner, upper (B)	
34	Front upper frame, inner		81	Front pillar, outer, upper	
35	Front upper frame, lower		82	Front pillar, outer, lower	
36	Front upper frame, outer		83	Front upper frame extension, outer	
37	Rear floor side sill reinforcement		84	Lateral rod reinforcement	
38	Rear seat crossmember	SGAHC	85	Sidemember seat belt reinforcement	SPRC35
39	Rear floor crossmember reinforcement		86	Rear floor sidemember extension	
40	Rear floor seat belt reinforcement		87	Front pillar, inner, upper (A)	
41	Jack up reinforcement		88	Front pillar, inner, lower	
42	Radiator bracket		89	Spare tire bracket	
43	Front tie down bracket, inner				
44	Rear floor sidemember front bulkhead				
45	Rear floor sidemember rear bulkhead				
46	Rear floor sidemember center reinforcement				
47	Rear tie down reinforcement				

* SGACC  Galvannealed steel plate
 SGACE 
 SGAHC 
 SENHC: SPHC plated with an electrical zinc-nickel alloy
 SENCE: SPCE plated with an electrical zinc-nickel alloy
 SPRC: Phosphorus added
 SENC35R: SPRC35 plated with an electrical zinc-nickel alloy
 SGAC35R: Galvannealed SPRC35
 SENPH: SAPH plated with an electrical zinc-nickel alloy
 The numbers in the material codes indicate the tensile strength.

<4WD>

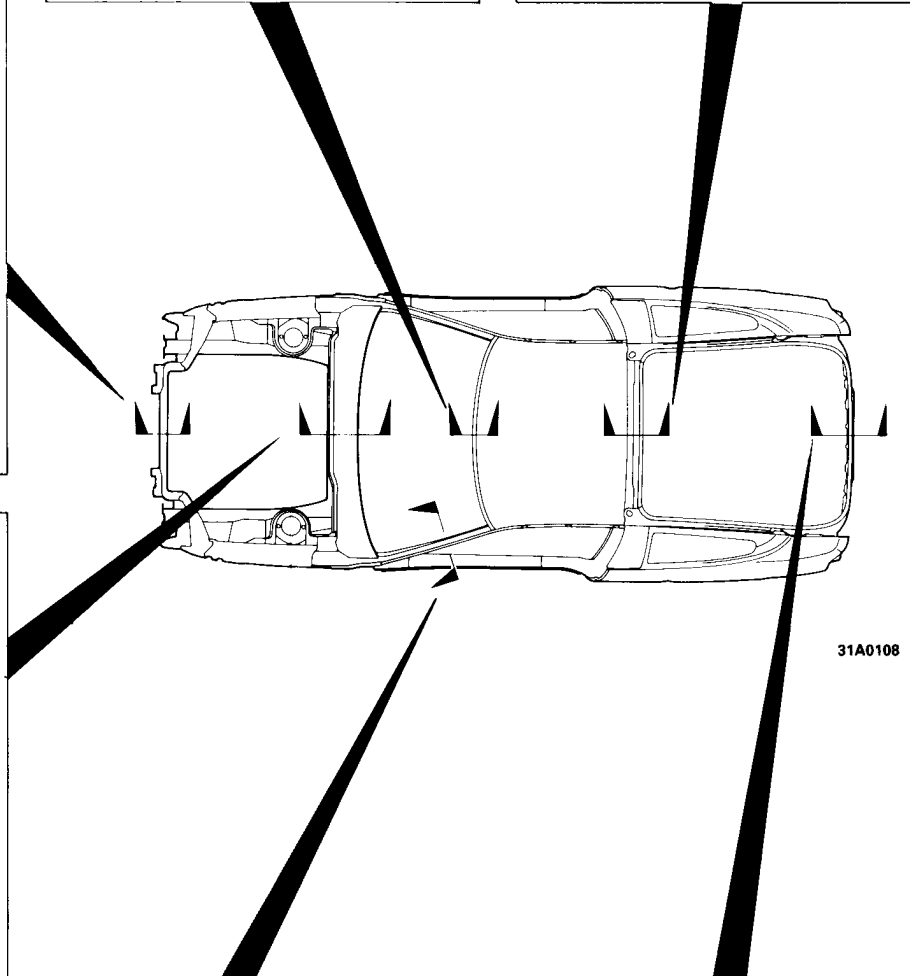
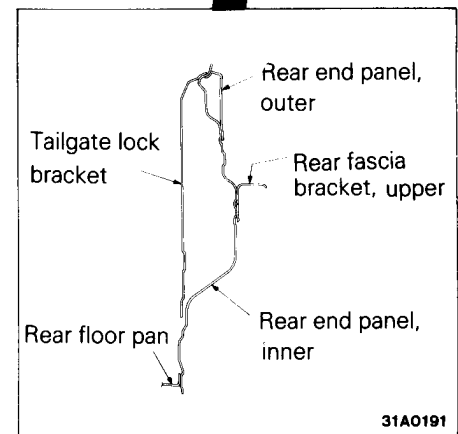
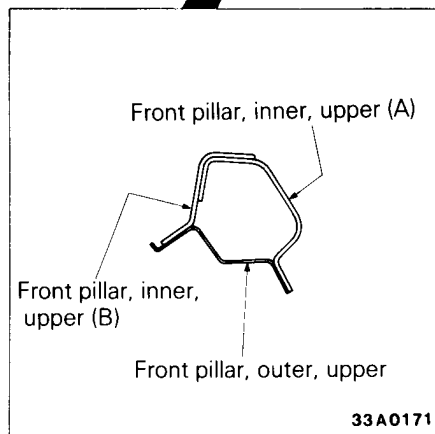
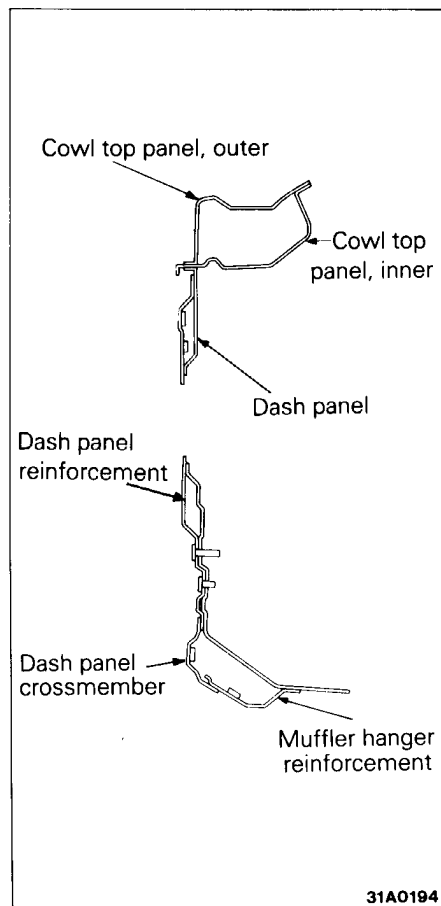
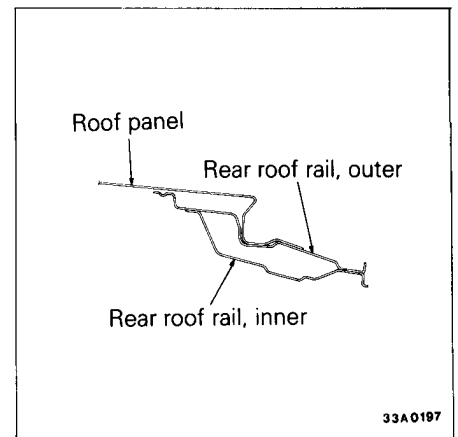
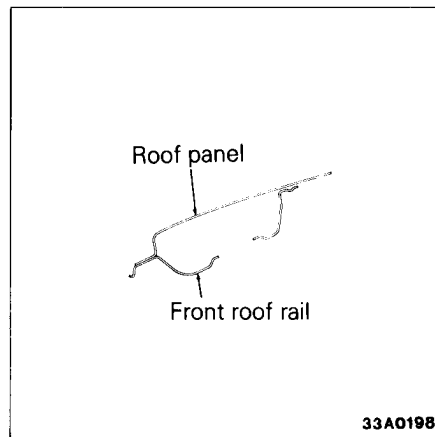
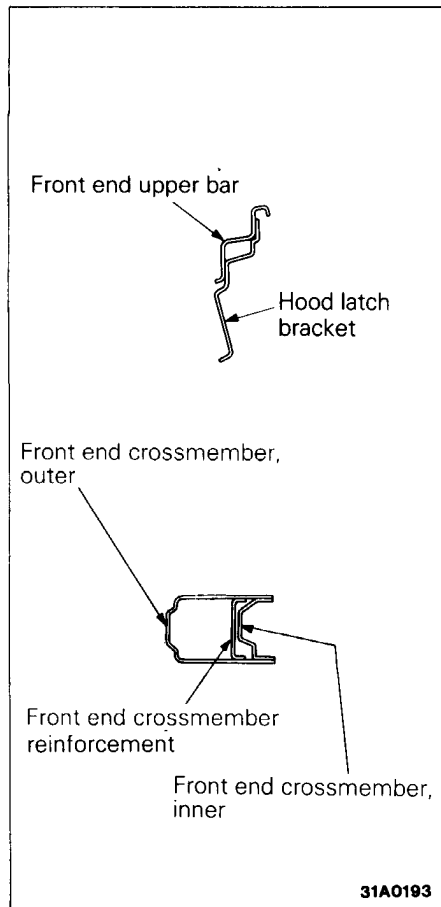


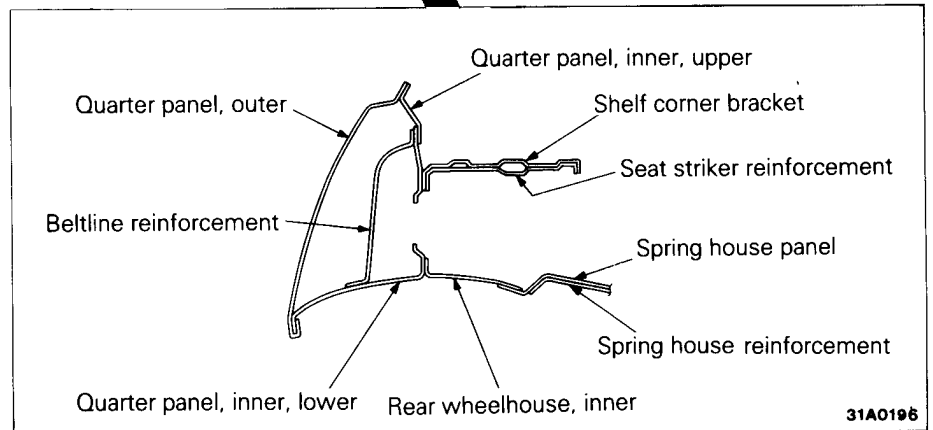
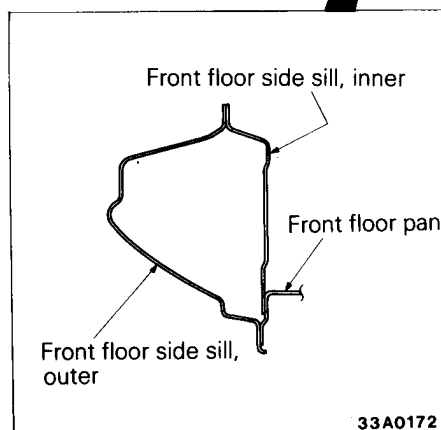
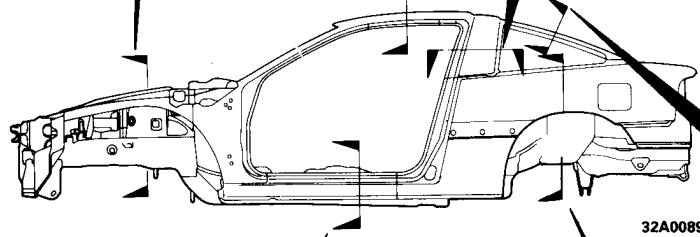
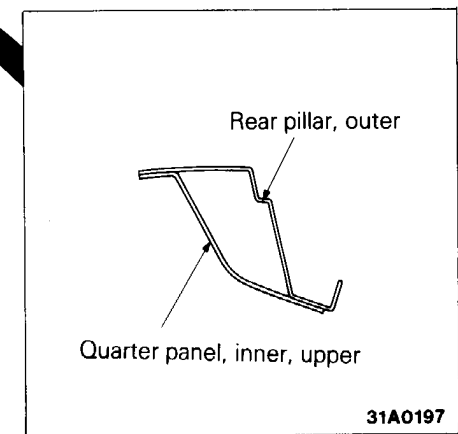
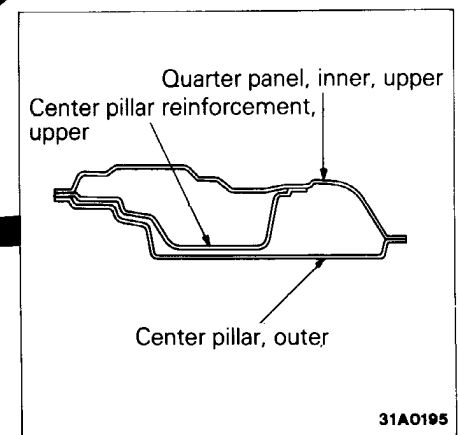
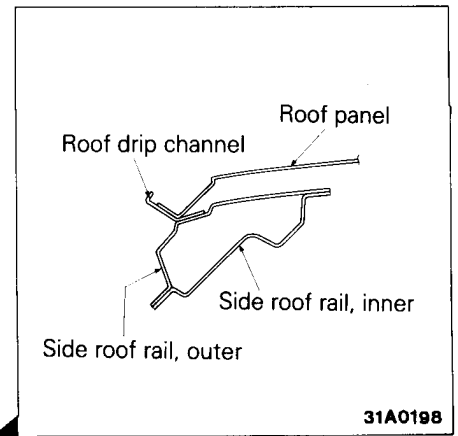
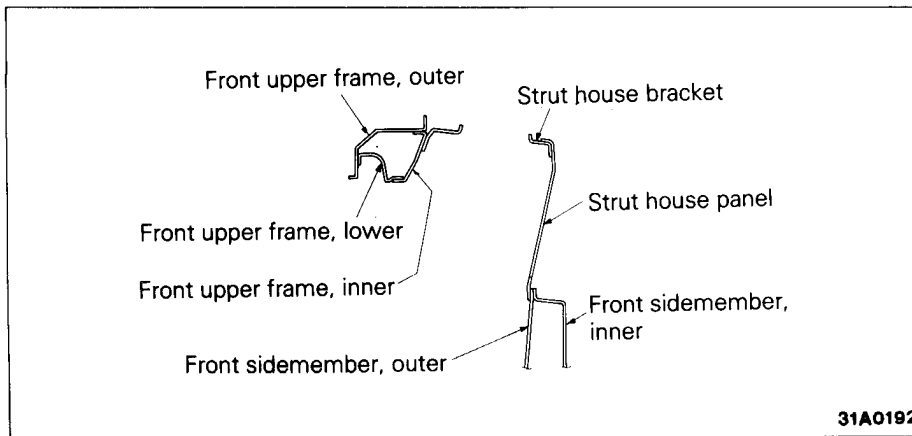
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No.	Part name	Material	No.	Part name	Material
1	Front door beltline reinforcement, outer	SGACC	44	Front door panel, inner	SGACE
2	Front door, outer, rear		45	Roof panel (for sun roof)	
3	Front door, inner, rear		46	Hood panel, inner	
4	Front fender bracket		47	Front fender panel	
5	Roof drip channel		48	Tailgate panel, outer, upper	
6	Rear wheelhouse front extension		49	Tailgate panel, inner	
7	Roof drip channel extension		50	Front floor side sill, outer	
8	Rear pillar, outer		51	Quarter panel, inner, lower	
9	Fuel filler neck bracket		52	Rear wheelhouse, inner	
10	Rear lamp housing extension		53	Quarter panel, outer	
11	Quarter outer lower extension		54	Rear lamp housing	
12	Fuel filler door panel		55	Cowl top panel, outer	SENCE
13	Front upper frame extension, inner		56	Cowl top panel, inner	
14	Dash panel crossmember		57	Front floor pan	
15	Dash panel extension		58	Rear end panel, inner	
16	Front floor side sill, inner, front		59	Front fender shield	
17	Dash panel		60	Rear floor side sill	
18	Front floor sidemember		61	Spring house panel	
19	Front floor side sill, inner		62	Center pillar, outer	
20	Rear seat crossmember		63	Backbone rear reinforcement	
21	Rear seat pan		64	Propeller shaft rear bracket	
22	Rear end crossmember		65	Rear floor crossmember, lower	
23	Child restraint reinforcement		66	Rear floor pan	
24	Rear fascia upper bracket		67	Strut house panel	
25	Rear end panel, outer		68	Rear floor sidemember front extension	
26	Oil cooler bracket		69	Rear floor sidemember	
27	Headlamp support panel		70	Differential mount bulkhead	
28	Sidemember to crossmember brace		71	Front sidemember, rear	SENHC
29	Fender support plate		72	Rear floor sidemember reinforcement	SENHE
30	Turn lamp bracket		73	Front door panel, outer	SGAC35R
31	Front end upper bar		74	Hood panel, outer	
32	Front end upper bar reinforcement		75	Tailgate panel, outer, lower	
33	Front upper frame, outer		76	Front pillar, inner, upper (B)	
34	Front upper frame, lower		77	Front pillar, outer, upper	
35	Front upper frame, inner	SGAHC	78	Front pillar, outer, lower	SENC35R
36	Shield plate		79	Front upper frame extension, outer	
37	Rear floor side sill reinforcement		80	Sidemember seat belt reinforcement	
38	Radiator bracket		81	Rear floor sidemember extension	
39	Front tie down bracket, inner		82	Bumper bracket	
40	Rear tie down reinforcement		83	Front sidemember, inner	SPRC35
41	Rear floor seat belt reinforcement		84	Front sidemember rear reinforcement	
42	Rear floor sidemember front bulkhead		85	Front pillar, inner, upper (A)	SPRC35
43	Rear floor sidemember rear bulkhead		86	Front pillar, inner, lower	
			87	Spare tire bracket	

* SGACC — Galvannealed steel plate
 SGACE —
 SGAHC —
 SENHC — SPHC plated with an electrical zinc-nickel alloy
 SENHE —
 SENCE: SPCE plated with an electrical zinc-nickel alloy
 SPRC: Phosphorus added
 SENC35R: SPRC35 plated with an electrical zinc-nickel alloy
 SGAC35R: Galvannealed SPRC35
 The numbers in the material codes indicate the tensile strength.

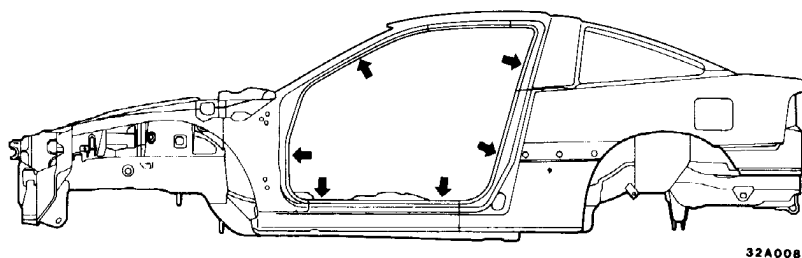
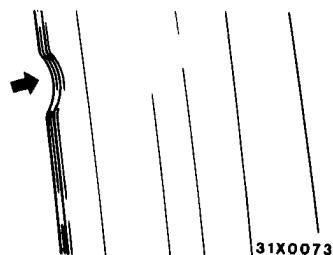
BODY MAIN CROSS-SECTIONAL VIEWS



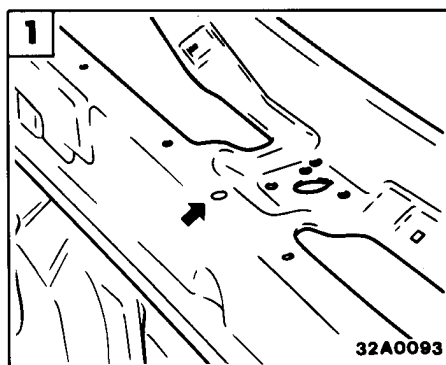
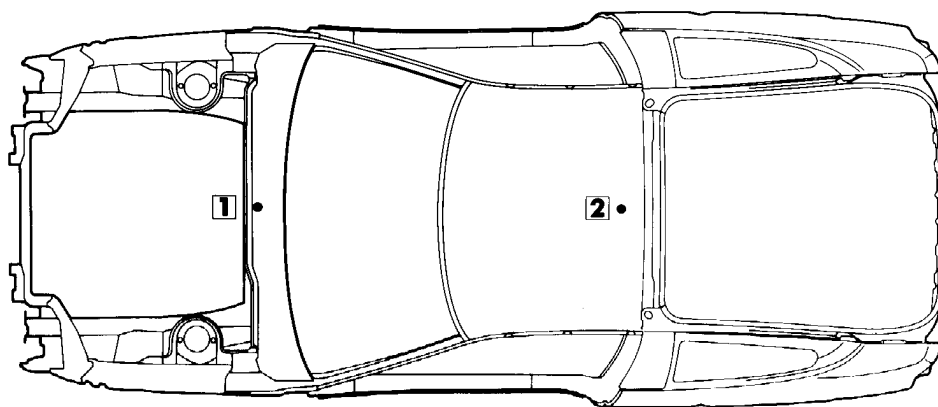


MAINTENANCE, SERVICEABILITY**Side Structure**

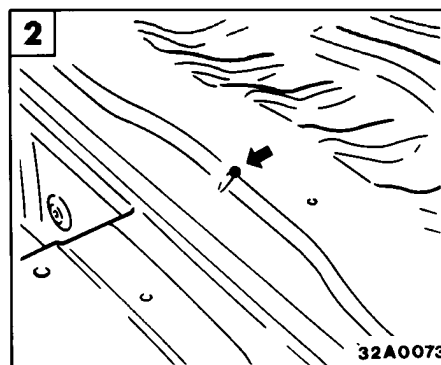
Notches are provided in the door openings for use in aligning panel positions, thus facilitating the assembly of new parts.

**Body Centre Points**

Body centre points are provided at the following locations, which serve as reference points for measurements at replacement of panels. (Refer to "Body Dimensions")



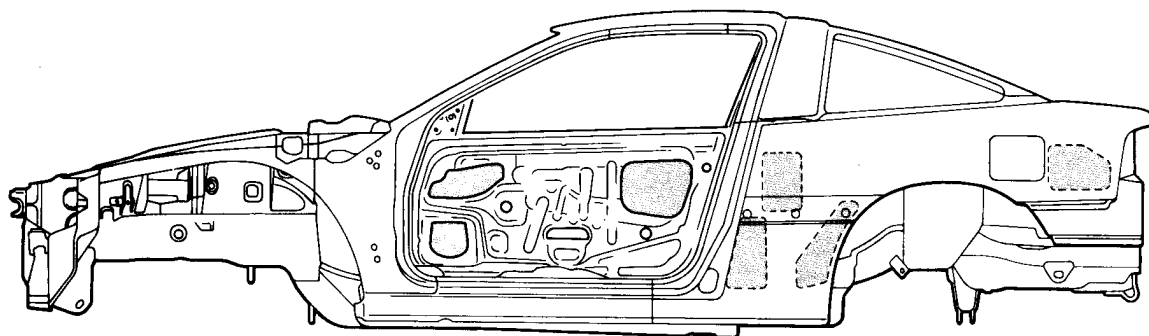
Front body centre point reference location



Rear body centre point reference location

Access Holes

Access holes are provided in inner panels including doors and quarter panels to facilitate correction of outer panel sheet metals.



■ : Access holes

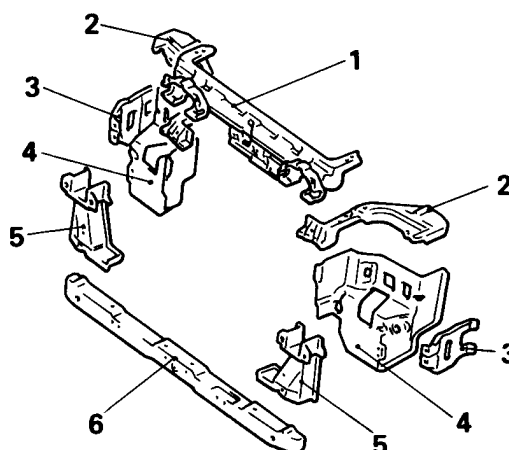
32A0119

Headlamp Support

The following component supply formats have been adopted in order to cope with various damage conditions.

- Supply as assembly
Headlamp support
1+2+3+4+5+6
- Supply as individual parts
1, 2, 3, 4, 5

1. Front end upper bar
2. Front end upper bar reinforcement
3. Fender support plate
4. Headlamp support side panel
5. Sidemember to crossmember brace
6. Front end crossmember



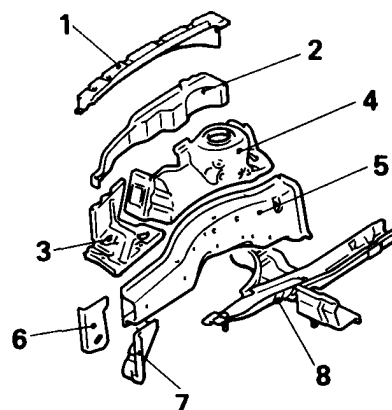
31A0244

Fender Shield

The following component supply formats have been adopted in order to cope with various damage conditions.

- Supply as assembly
Fender shield
1+2+3+4+5+6+7
Wheelhouse, inner
1+2+3+4
- Supply as individual parts
1, 2, 3, 6, 7, 8

1. Front upper frame, outer
2. Front upper frame, inner
3. Shield plate
4. Front wheelhouse
5. Front sidemember
6. Front end gusset, outer
7. Front end gusset, inner
8. Front sidemember, rear



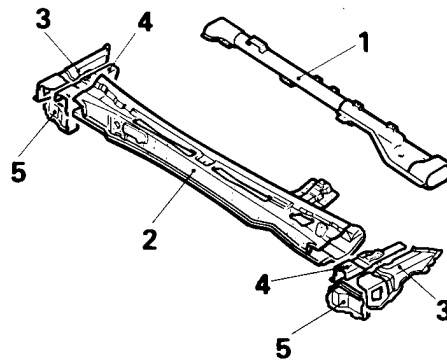
31A0243

Front Deck

The part coupling with the fender shield is supplied as an individual part for efficient part replacement.

- Supply as assembly
Cowl top panel
2+3+4+5
- Supply as individual parts
1, 3, 4, 5

1. Front deck crossmember
2. Cowl top
3. Upper frame extension, outer
4. Upper frame extension, inner
5. Upper frame silencer



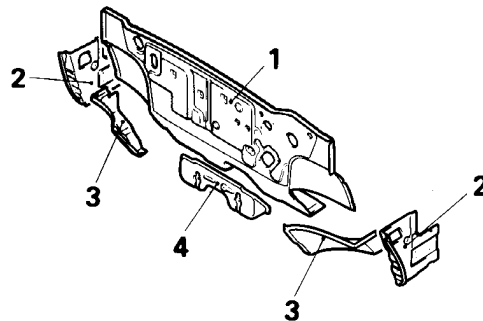
31A0239

Dash Panel

The dash panel extension is supplied as an individual part in order to cope with a side collision to the front pillar.

- Supply as assembly
Dash panel
1+2+3+4
- Supply as individual parts
2, 3, 4

1. Dash panel
2. Front floor side sill, inner, front
3. Dash panel extension
4. Dash panel crossmember



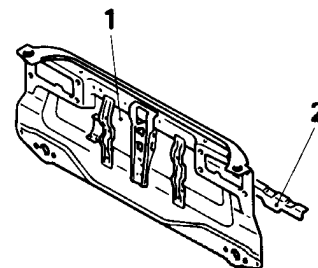
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Rear End Panel

The rear fascia upper bracket is supplied as an individual part in order to cope with a minor collision.

- Supply as assembly
Rear end panel
1+2
- Supply as individual parts
2

1. Rear end panel
2. Rear fascia bracket, upper



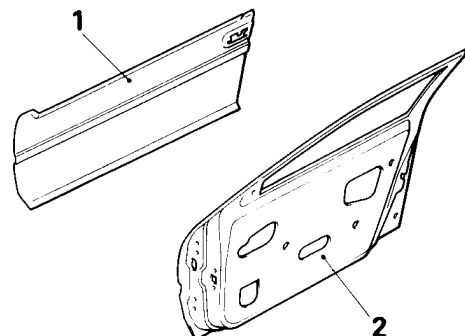
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Front Door

For the door, the outer panel is supplied as an individual part for efficient part replacement.

- Supply as assembly
Front door-panel
1+2
- Supply as individual parts
1

1. Front door panel, outer
2. Front door panel, inner



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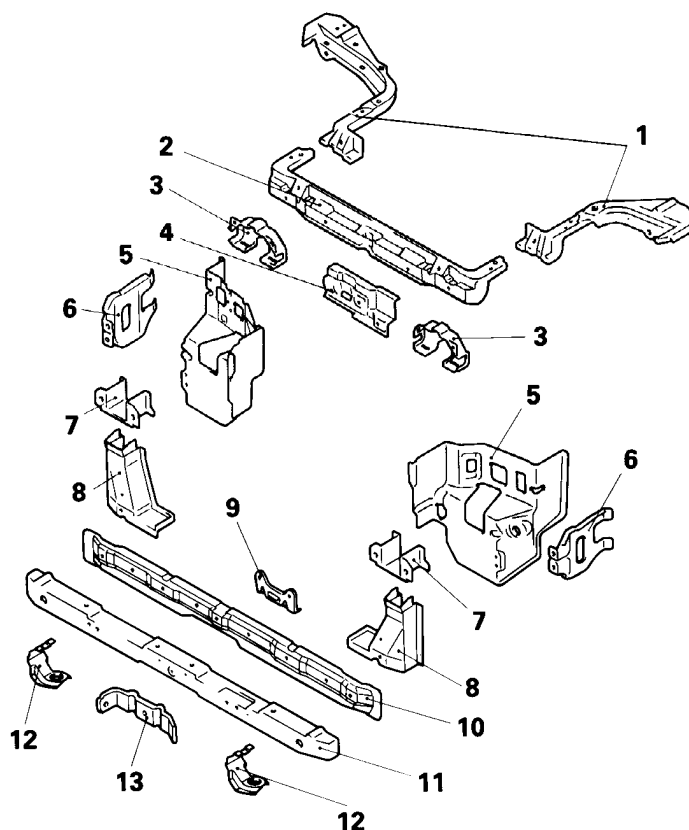
FRONT BODY

Headlamp support

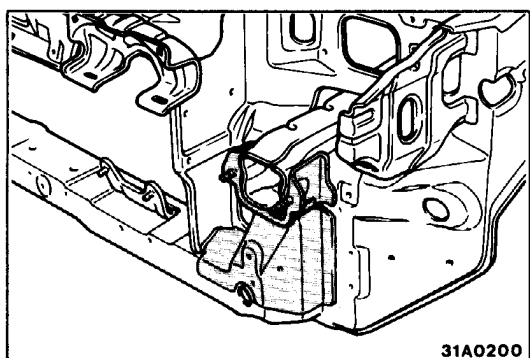
(1) For the headlamp support, the same basic separation construction is used as for previous models; it has the following features.

- The front end upper bar separates into three pieces to facilitate left and right replacement.
- A fender support plate has been provided for fender panel installation.

1. Front end upper bar reinforcement
2. Front end upper bar
3. Turn lamp bracket
4. Hood latch bracket
5. Headlamp support panel
6. Fender support plate
7. Bumper bracket
8. Sidemember to crossmember brace
9. Oil cooler bracket
10. Front end crossmember, inner
11. Front end crossmember, outer
12. Radiator bracket
13. Front end crossmember reinforcement
<2WD only>

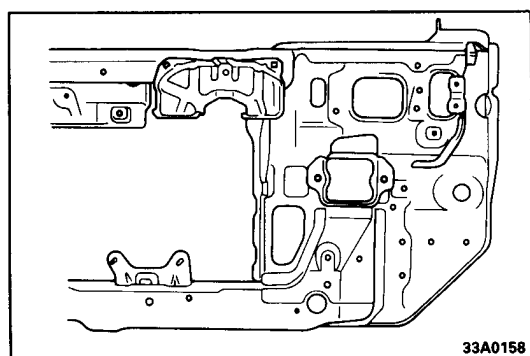


31A0228



31A0200

(2) The bumper bracket is coupled with the sidemember and crossmember brace, as well as the front sidemember in order to provide the front bumper installation part with sufficient strength.

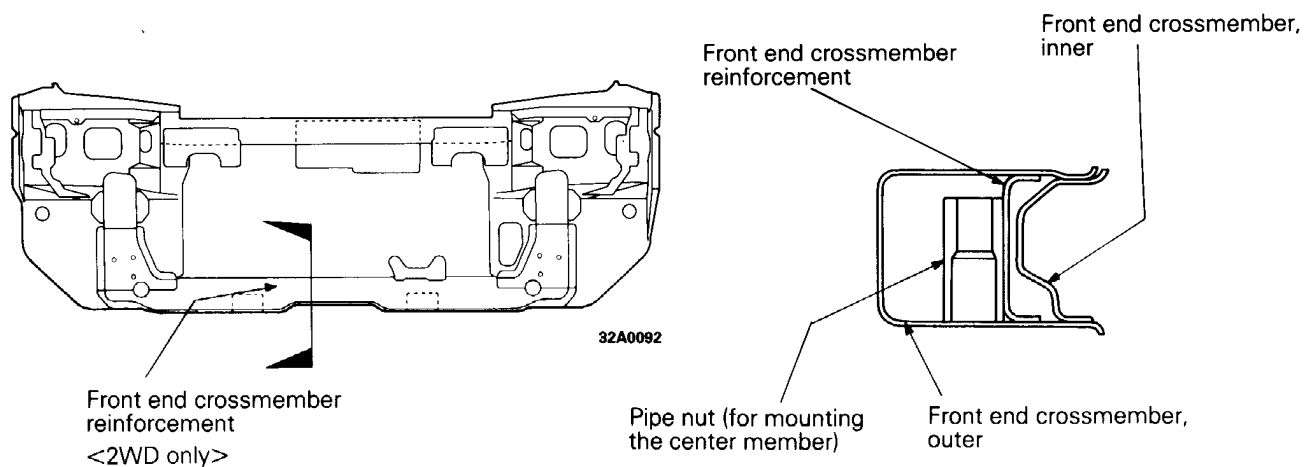


33A0158

(3) In conjunction with the adoption of the engine oil cooler, an oil cooler bracket has been provided.

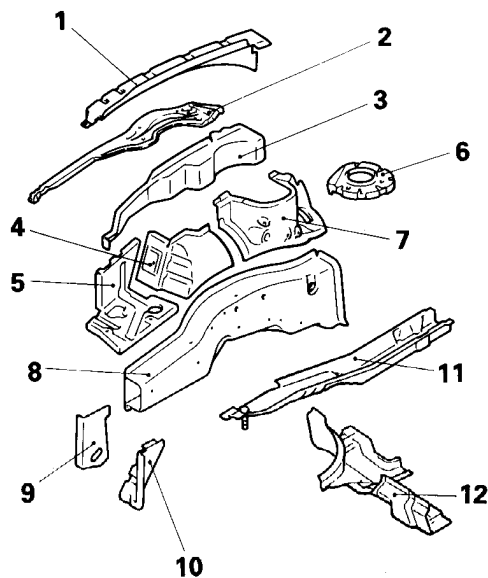
(4) Front end crossmember

Because the center member, which supports the engine, is mounted beneath the center of the front end crossmember, pipe nuts (two) and a reinforcement are used to strengthen this area.



Fender Shield

1. Front upper frame, outer
2. Front upper frame, lower
3. Front upper frame, inner
4. Front fender shield
5. Shield plate
6. Strut house bracket
7. Strut house panel
8. Front sidemember
9. Front tie down bracket, outer
10. Front tie down bracket, inner
11. Front sidemember rear reinforcement
12. Front sidemember, rear

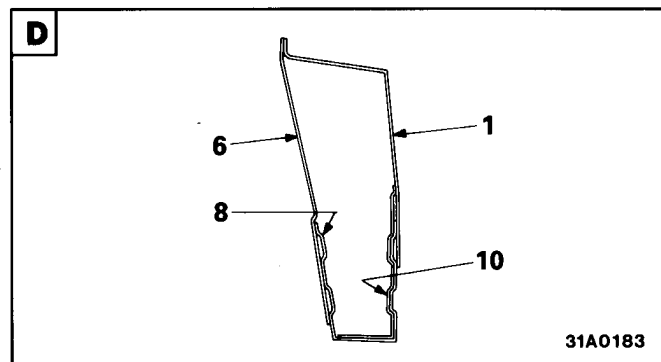
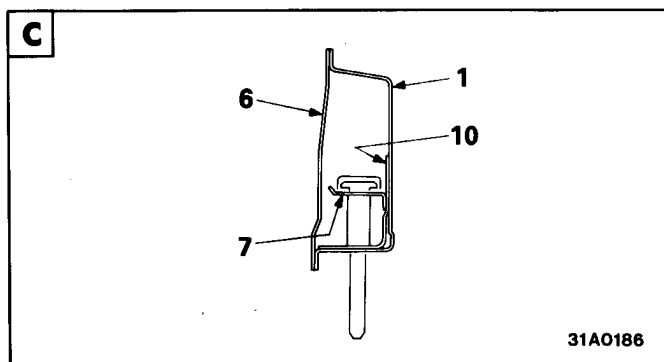
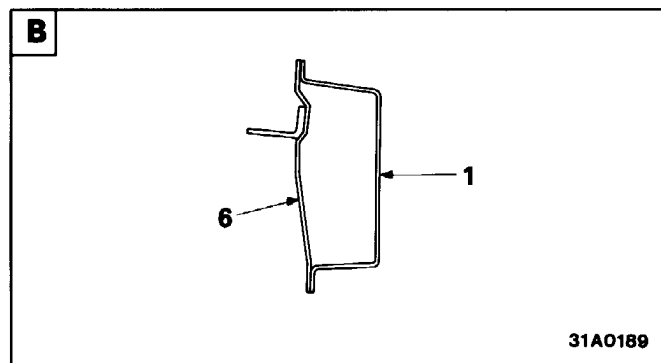
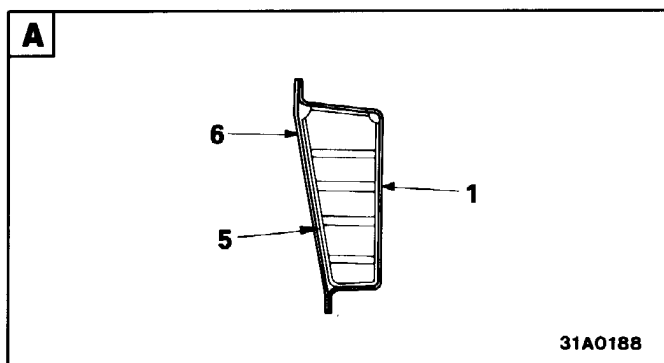
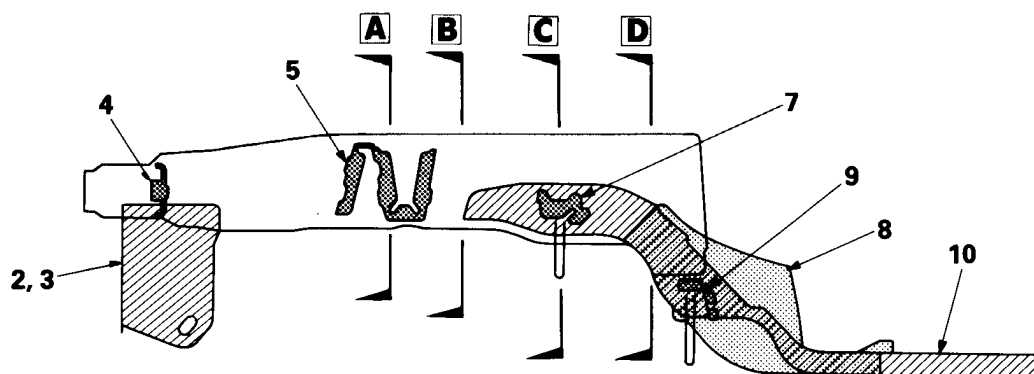
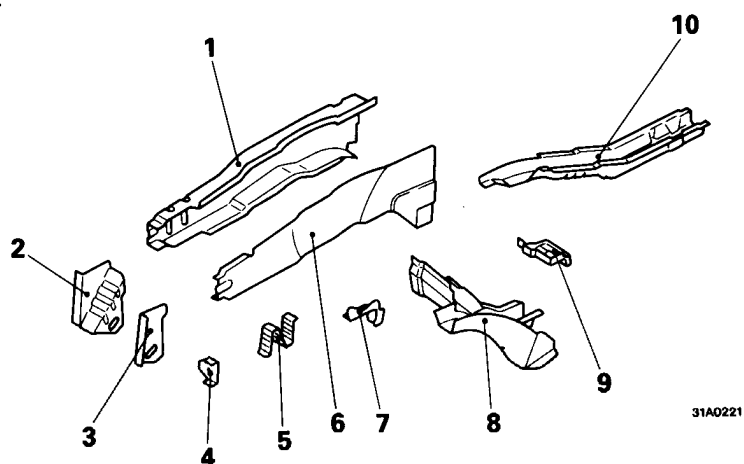


31A0227

(1) Front sidemember (Left side)

The following reinforcements have been installed to the front sidemember (Left side).

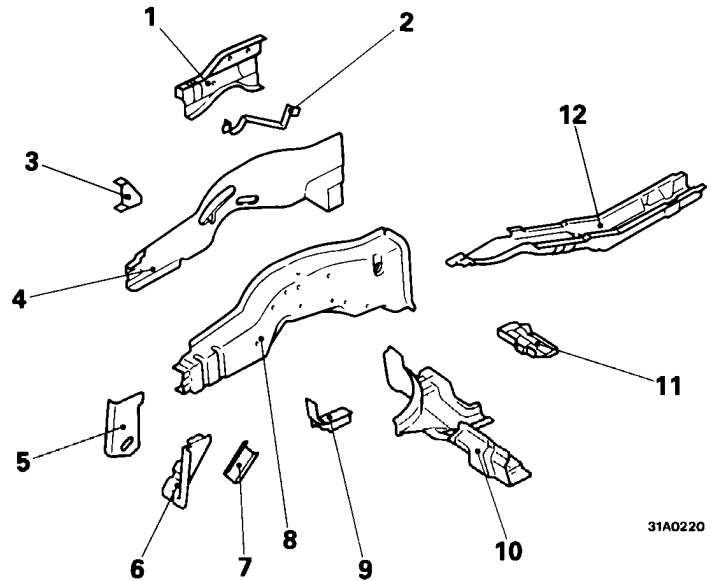
1. Front sidemember, inner
2. Front tie down bracket, inner
3. Front tie down bracket, outer
4. Absorber bracket
5. Front sidemember bulkhead
6. Front sidemember, outer
7. Pipe support, front
8. Front sidemember, rear
9. Pipe support, rear
10. Front sidemember rear reinforcement



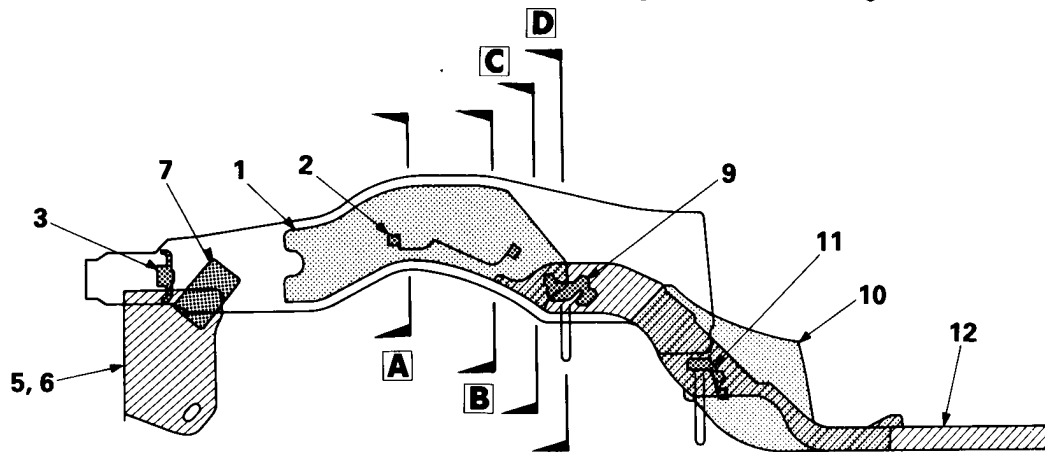
(2) Front sidemember (Right side)

The following reinforcements have been installed to the front sidemember (Right side).

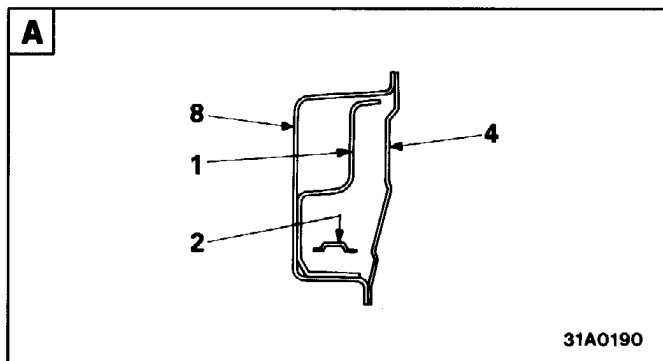
1. Front sidemember front reinforcement
2. Bolt guide plate
3. Absorber bracket
4. Front sidemember, outer
5. Front tie down bracket, outer
6. Front tie down bracket, inner
7. Condenser tank bracket
8. Front sidemember, inner
9. Pipe support, front
10. Front sidemember, rear
11. Pipe support, rear
12. Front sidemember rear reinforcement



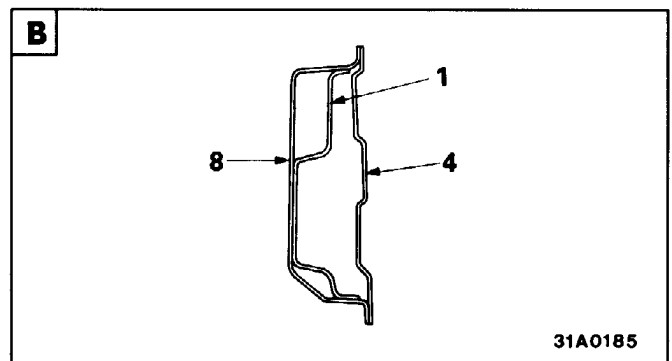
31A0220



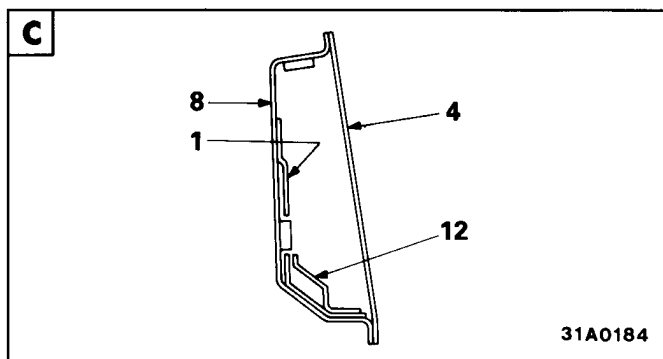
31A0181



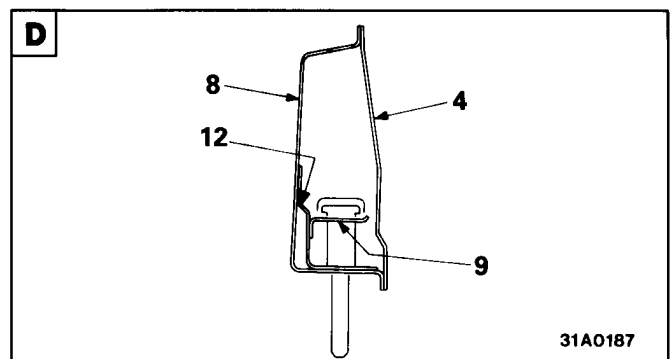
31A0190



31A0185

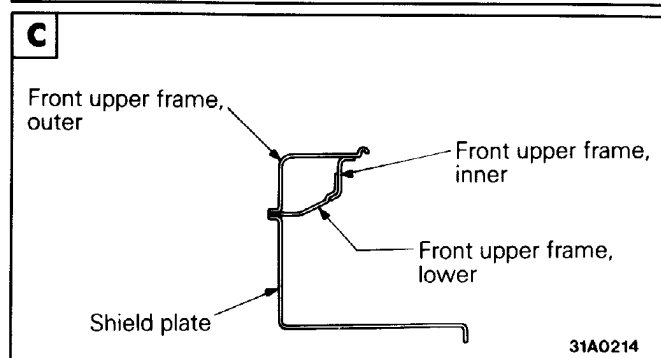
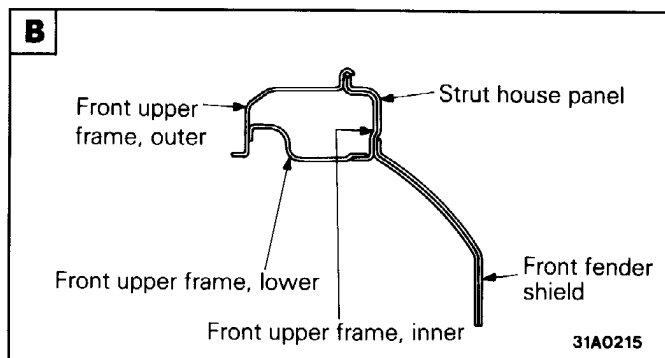
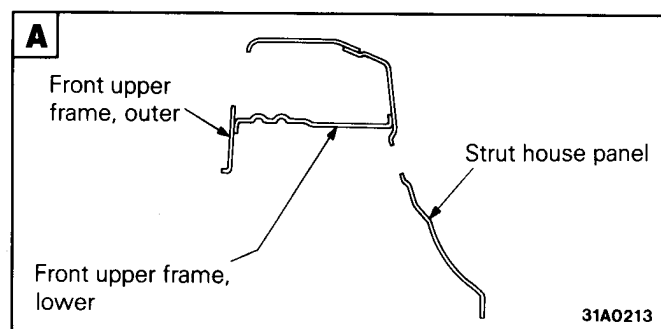
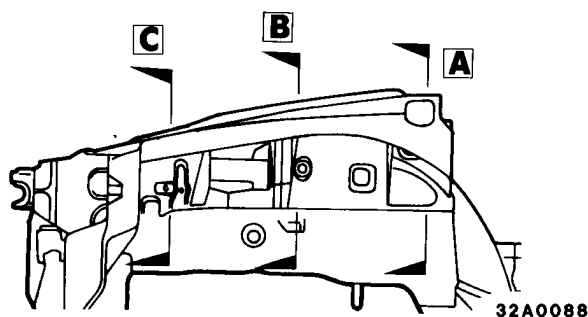


31A0184

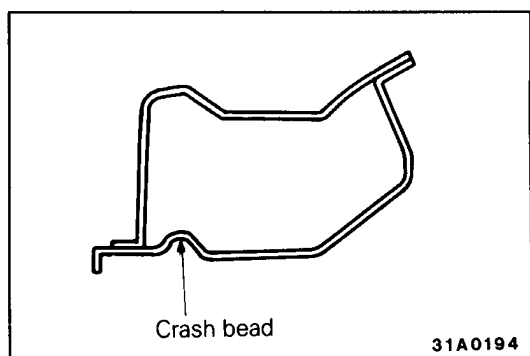
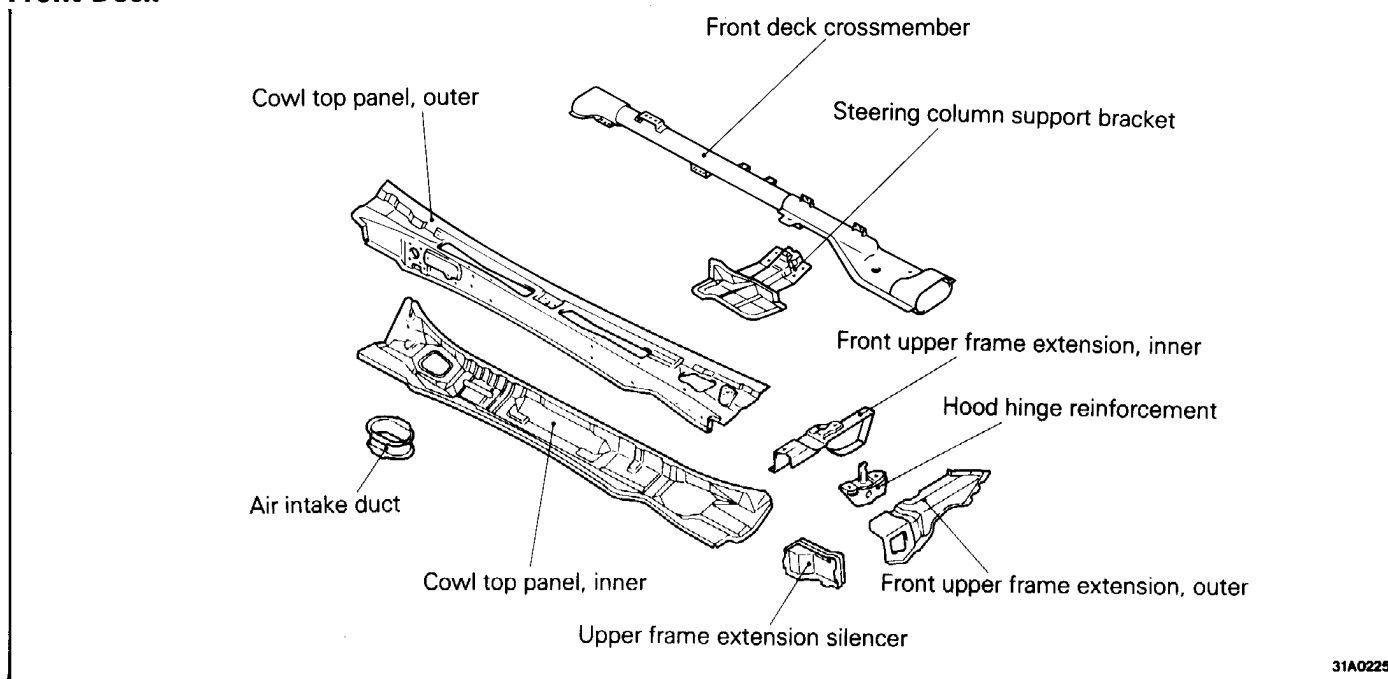


31A0187

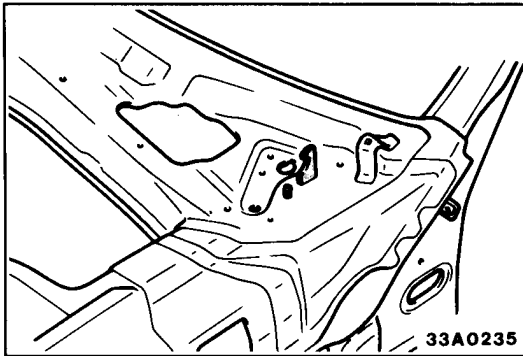
- (3) Closed-section construction has been adopted for the entire length of the upper frame, thereby providing high rigidity.



Front Deck

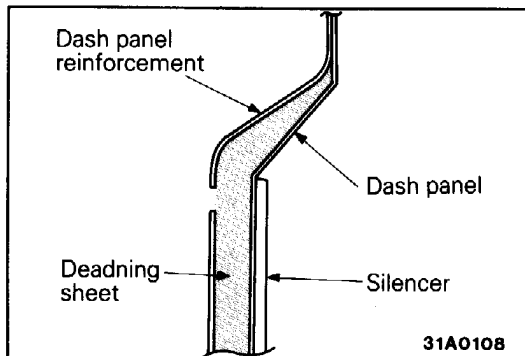
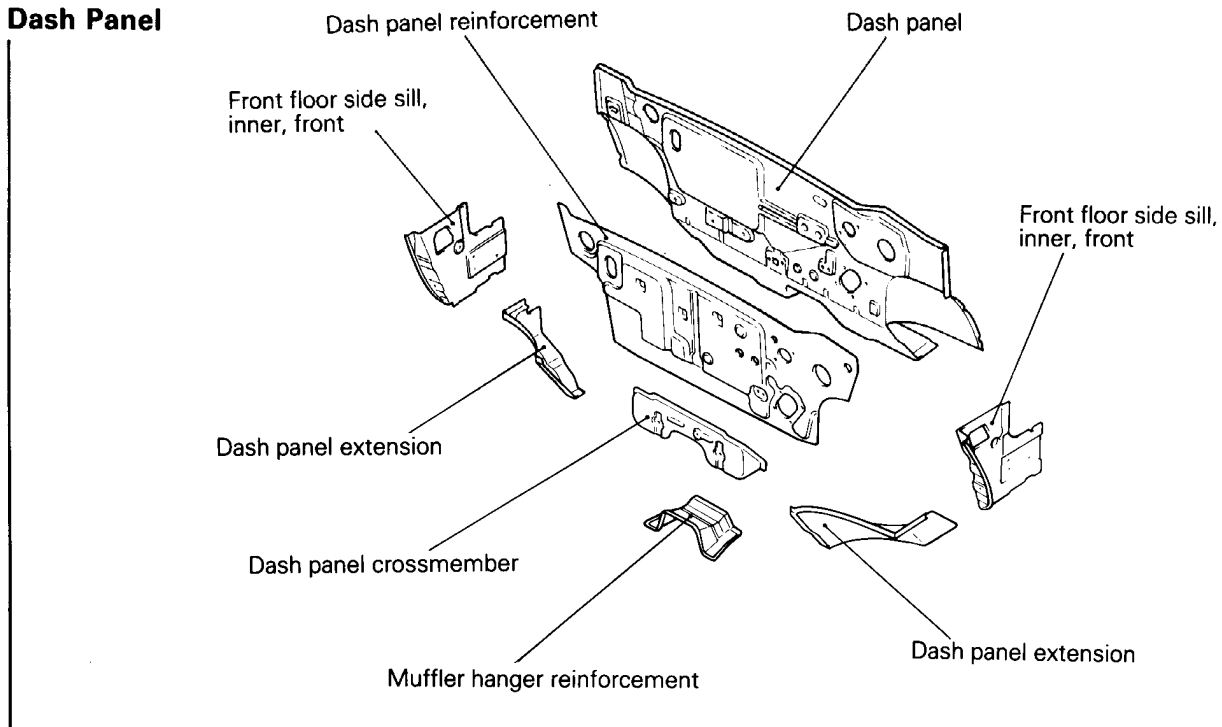


- (1) The cowl top panel (inner) has been provided with a crash bead in order to absorb the energy of a collision. As a result, this prevents the steering wheel from being pulled out of the driver's hands during a collision, and thereby adds safety.



- (2) In order to prevent the hood from being pushed into the interior during a collision, a safety hook has been provided for added safety of the driver and passengers.

Dash Panel



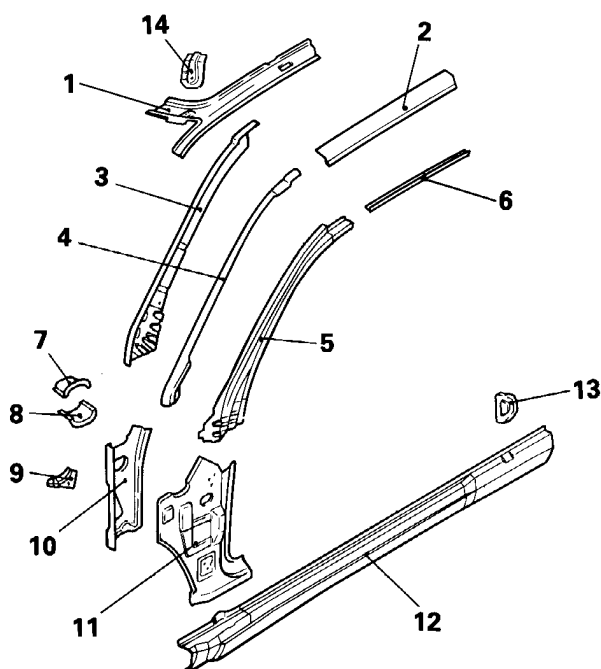
- (1) The dash panel construction is a double-wall construction with a deadening sheet between, an excellent construction that, together with the silencer attached at the interior side, provides superb sound-insulation and vibration-prevention characteristics.

SIDE BODY

The side body construction is a separate design in which the independent individual panels are assembled by welding.

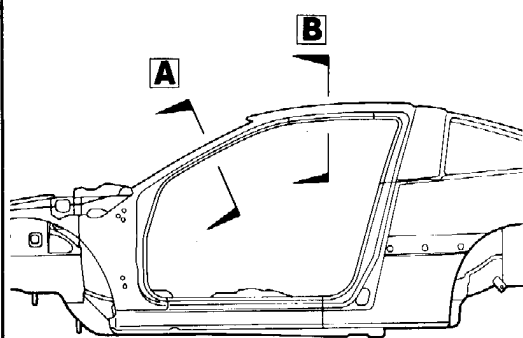
Front Side Structure

1. Roof side rail, inner
2. Roof side rail, outer
3. Front pillar, inner, upper (A)
4. Front pillar, inner, upper (B)
5. Front pillar, outer, upper
6. Roof drip channel
7. Deck crossmember support, upper
8. Deck crossmember support, lower
9. Deck crossmember stay reinforcement
10. Front pillar, inner, lower
11. Front pillar, outer, lower
12. Front floor side sill, outer
13. Side sill silencer
14. Guide plate (Vehicles with sun roof only)

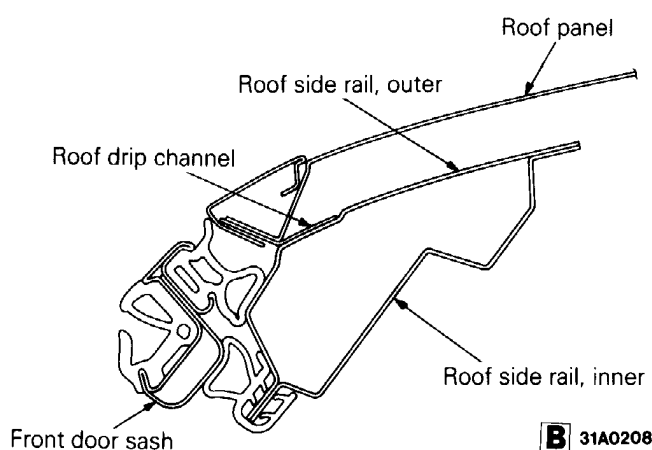


31A0223

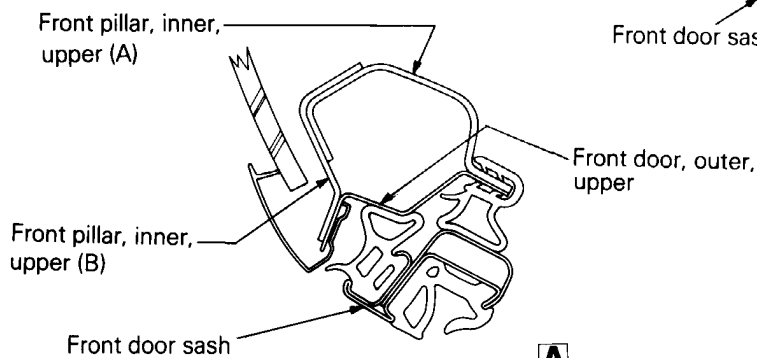
- (1) The front pillar has a concealed configuration, resulting in flush body surfaces. In addition, air resistance and wind noise are reduced by the double door-check configuration with the front doors.



32A0089



B 31A0208

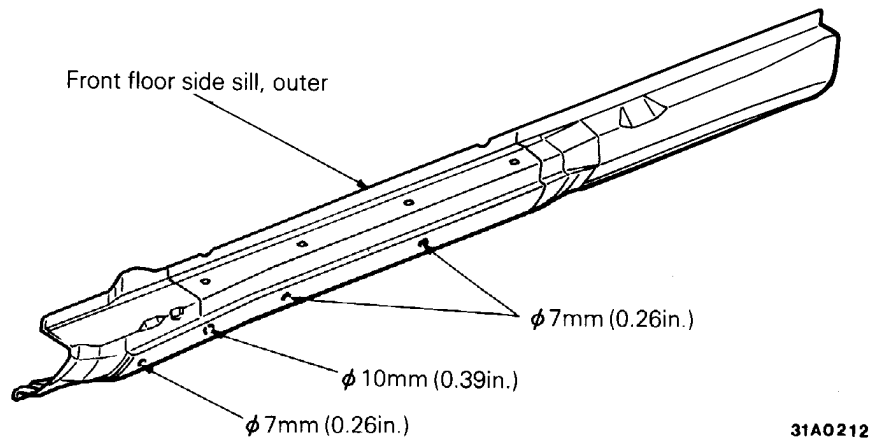


31A0207

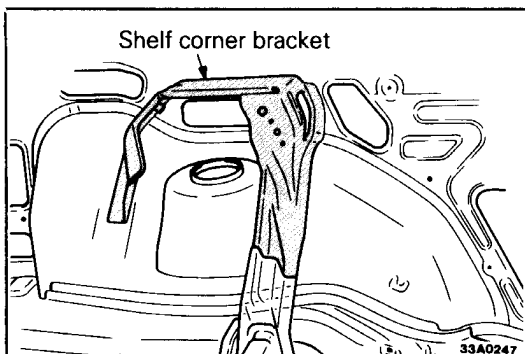
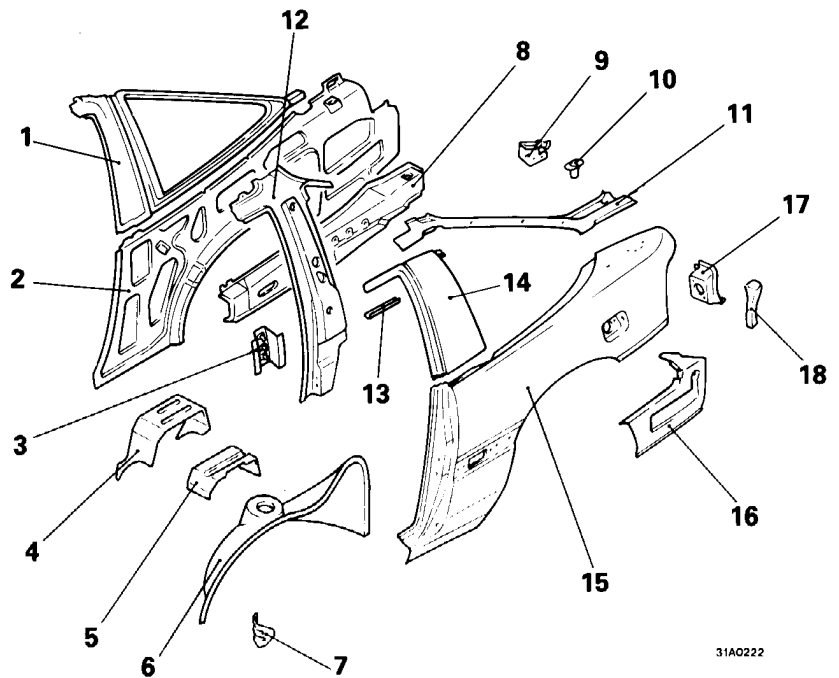
A

Side sill, outer

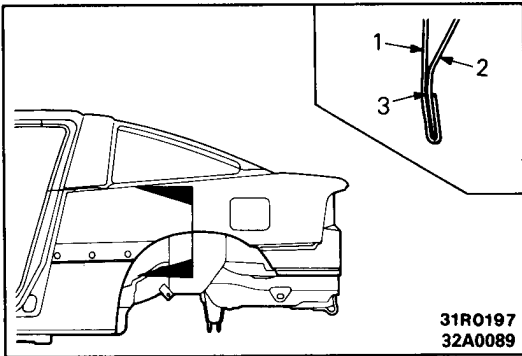
Installation holes (shown in the figure) are provided for models equipped with the side air dam.

**Rear Side Structure**

1. Quarter panel, inner, upper
2. Quarter panel, inner, lower
3. Front seat belt reinforcement, upper
4. Shelf corner bracket
5. Seat striker reinforcement
6. Rear wheelhouse, inner
7. Rear wheelhouse extension, front
8. Beltline reinforcement
9. Gas spring bracket
10. Drain pipe
11. Rear pillar, outer
12. Center pillar reinforcement, upper
13. Roof drip channel extension
14. Center pillar, outer
15. Quarter panel, outer
17. Rear lamp housing

**Rear wheelhouse, inner**

The shelf corner bracket is connected to the rear floor crossmember (upper) in order to provide sufficient rigidity to input from the rear tires.



Quarter panel

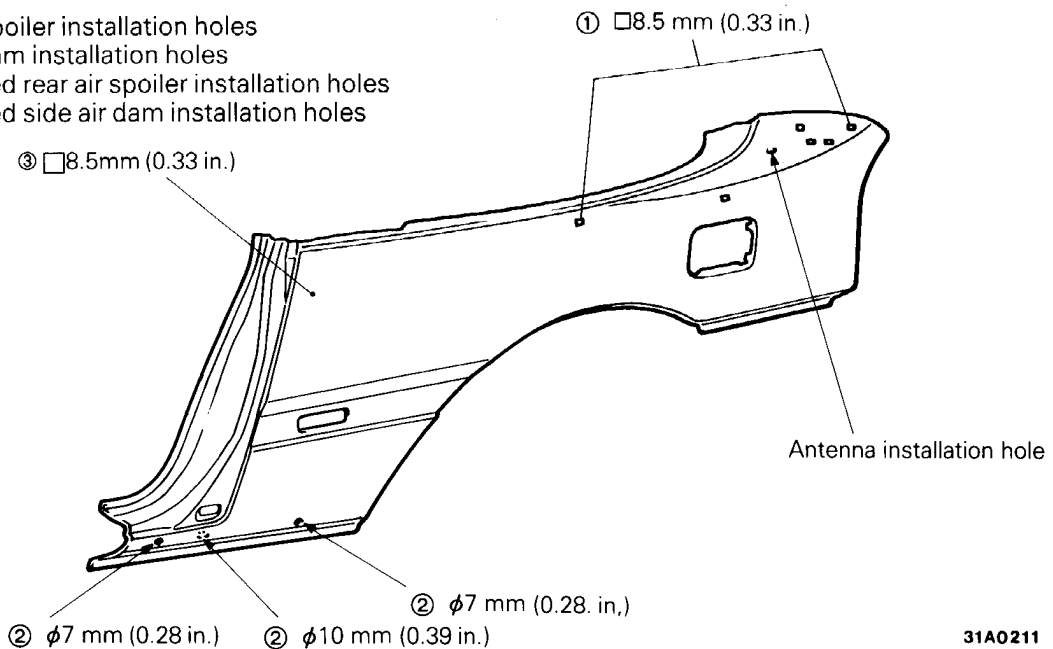
(1) In order to maintain sufficient clearance for installation of wide tires, the upper part of the wheel arch is hemmed.

- 1. Quarter panel, outer
- 2. Quarter panel, inner, lower
- 3. Adhesive

31R0197
32A0089

(2) Installation holes (shown in the figure) are provided for models equipped with the side air dam and rear air spoiler.

- ① : Rear air spoiler installation holes
- ② : Side air dam installation holes
- ① + ③ : Large-sized rear air spoiler installation holes
- ② + ④ : Large-sized side air dam installation holes

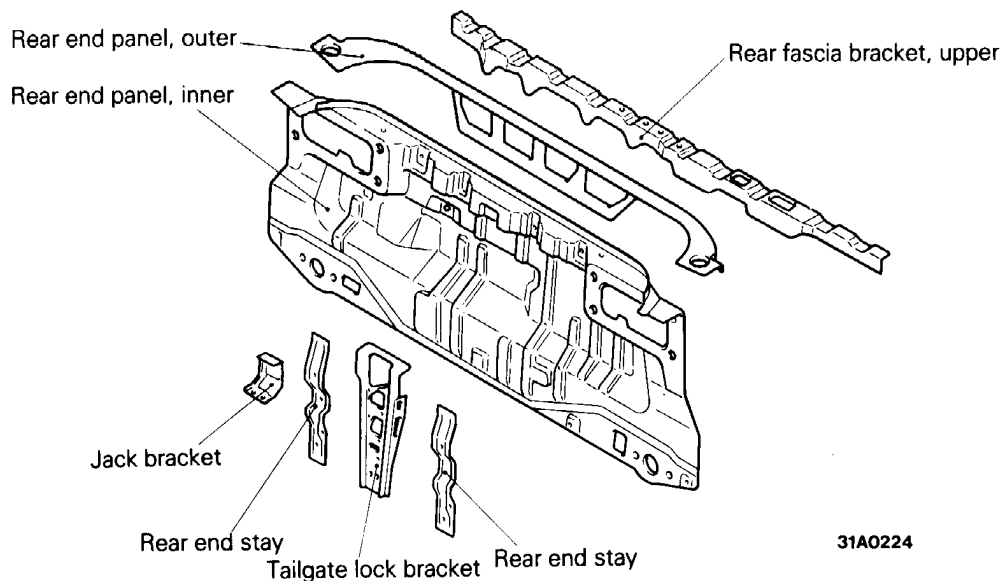


31A0211

REAR BODY

Rear End Panel

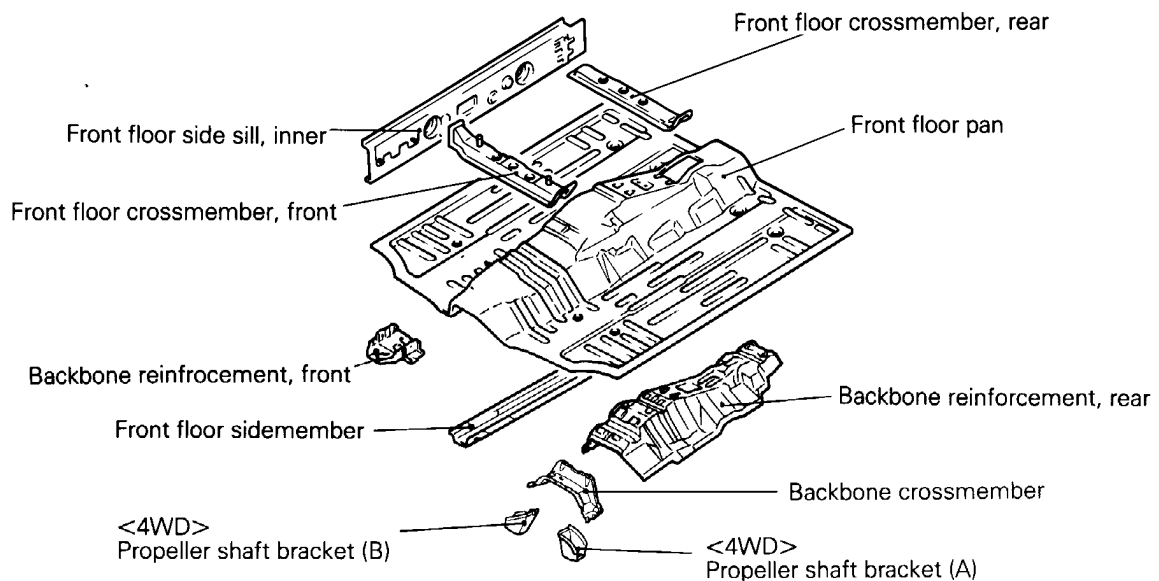
The rear end panel is installed at the outer side of the quarter panel in order to facilitate replacement procedures.



31A0224

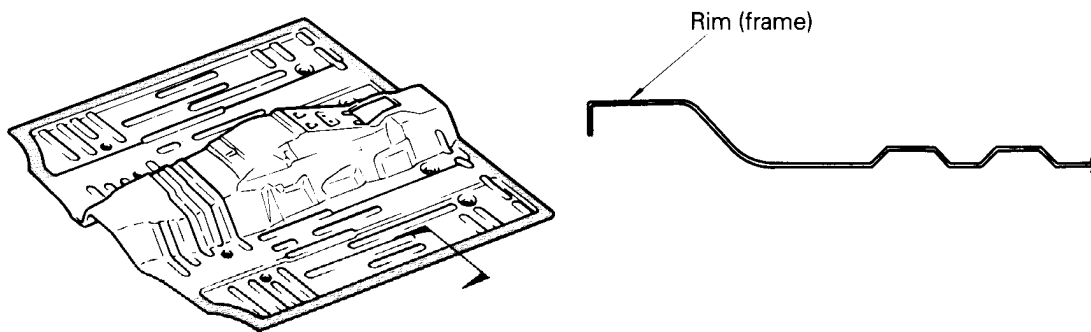
UNDER BODY

Front Floor



31A0235

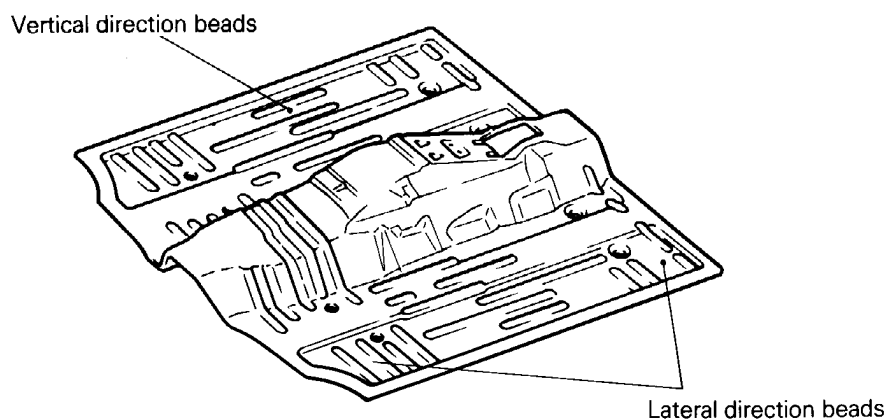
- (1) A framed floor construction (with a rim completely around the floor pan) has been adopted, thus increasing the rigidity of the panel itself.



31A0253

31A0054

- (2) By arranging the beads (at locations related to underfloor rectifications) in the vertical direction, this combined with the beads in the lateral direction, results in a form with a high rigidity effect.

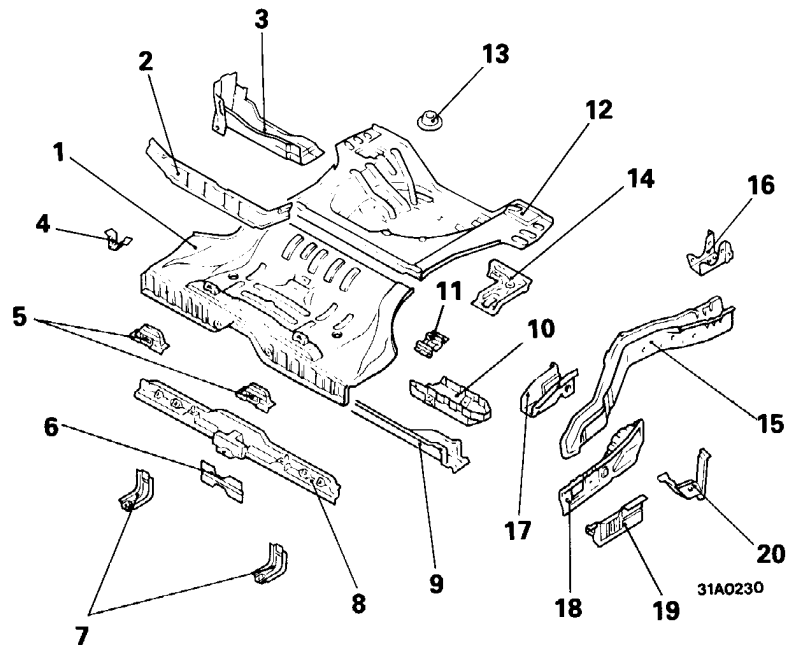


31A0253

Rear Floor

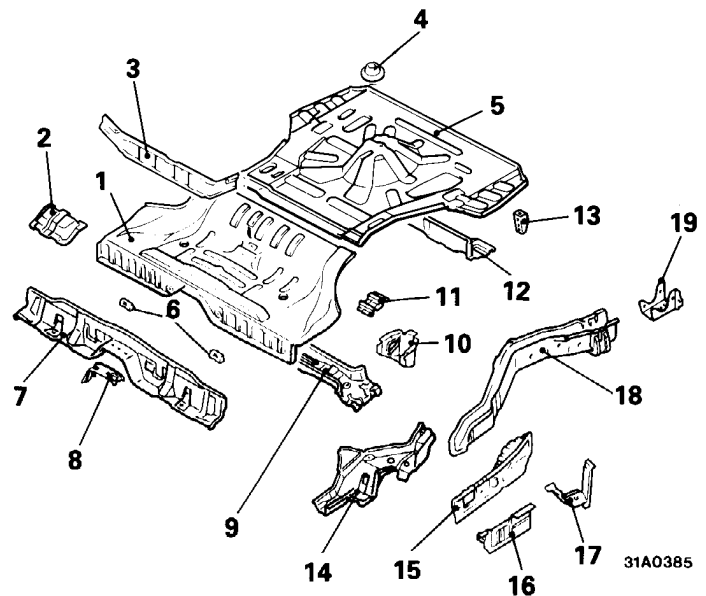
<2WD>

1. Rear seat pan
2. Rear floor crossmember, upper
3. Lateral rod bracket
4. Parking brake bracket
5. Rear seat support bracket
6. Rear seat crossmember reinforcement
7. Sidemember rear floor extension
8. Rear seat crossmember
9. Rear floor crossmember, lower
10. Rear floor crossmember reinforcement
11. Rear floor seatbelt reinforcement
12. Rear floor pan
13. Spare tire bracket
14. Jack up reinforcement
15. Rear floor sidemember
16. Rear floor sidemember extension
17. Trailing arm bracket
18. Rear floor side sill
19. Rear floor side sill reinforcement
20. Tie down reinforcement



<4WD>

1. Rear seat pan
2. Split seat bracket
3. Rear floor crossmember, upper
4. Spare tire bracket
5. Rear floor pan
6. Rear seat support bracket
7. Rear seat crossmember
8. Propeller shaft bracket, rear
9. Rear floor crossmember, lower
10. Fuel tank support bracket
11. Rear floor seatbelt reinforcement
12. Rear end crossmember
13. Child restraint reinforcement
14. Rear floor sidemember front extension
15. Rear floor side sill
16. Rear floor side sill reinforcement
17. Tie down reinforcement
18. Rear floor sidemember
19. Rear floor sidemember extension

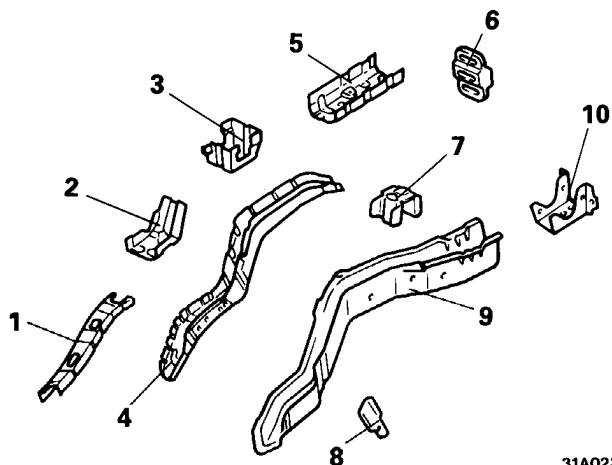


(1) Rear Floor Sidemember

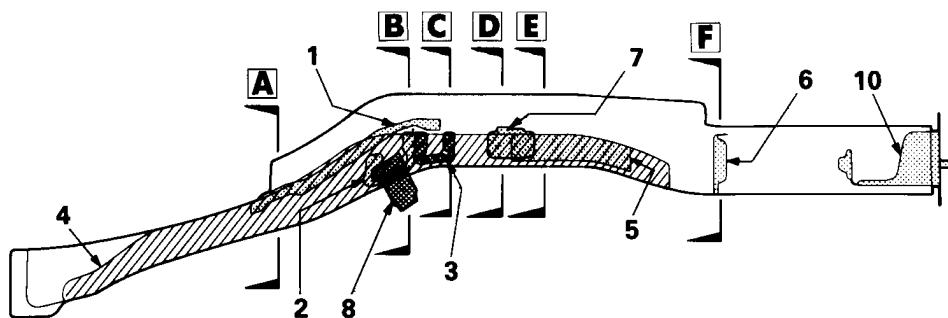
Because the rear part of the rear floor sidemember is almost straight, and the cross-section is larger, the rear-end collision characteristics are excellent.

(2) The following reinforcements have been installed to the rear floor sidemember.

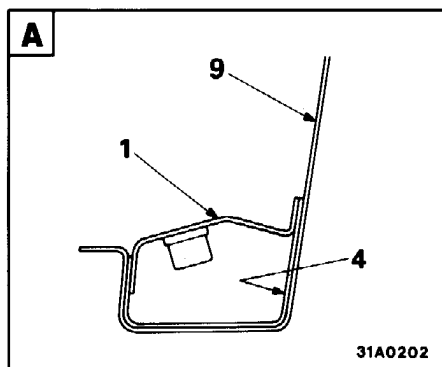
1. Sidemember seatbelt reinforcement
2. Rear floor sidemember bulkhead, front
3. Rear floor sidemember bulkhead, rear
4. Rear floor sidemember reinforcement
5. Rear floor sidemember center reinforcement <2WD only>
6. Rear floor sidemember bulkhead <2WD only>
7. Differential mount bulkhead <4WD only>
8. Brake hose bracket <2WD only>
9. Rear floor sidemember
10. Rear floor sidemember extension



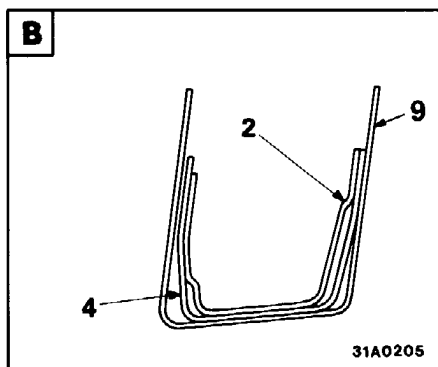
31A0234



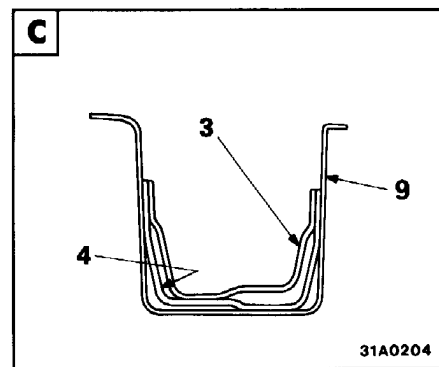
31A0358



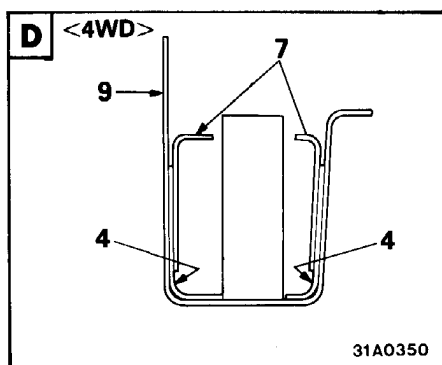
31A0202



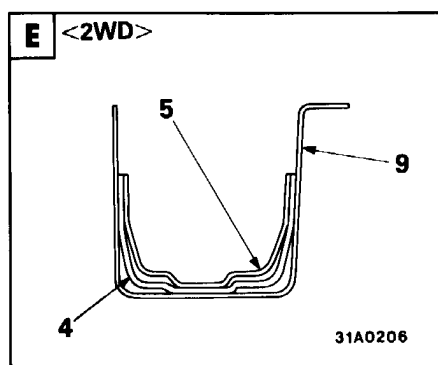
31A0205



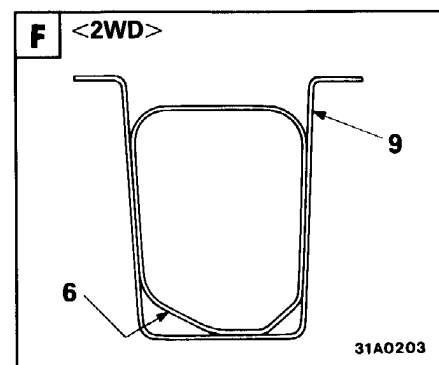
31A0204



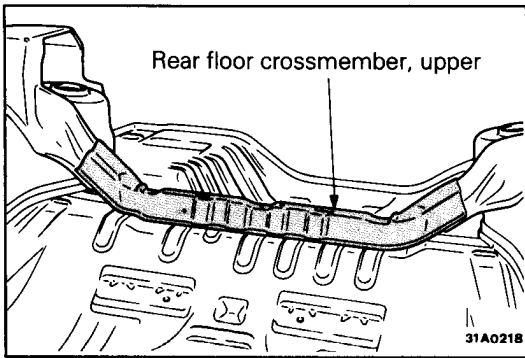
31A0350



31A0206



31A0203



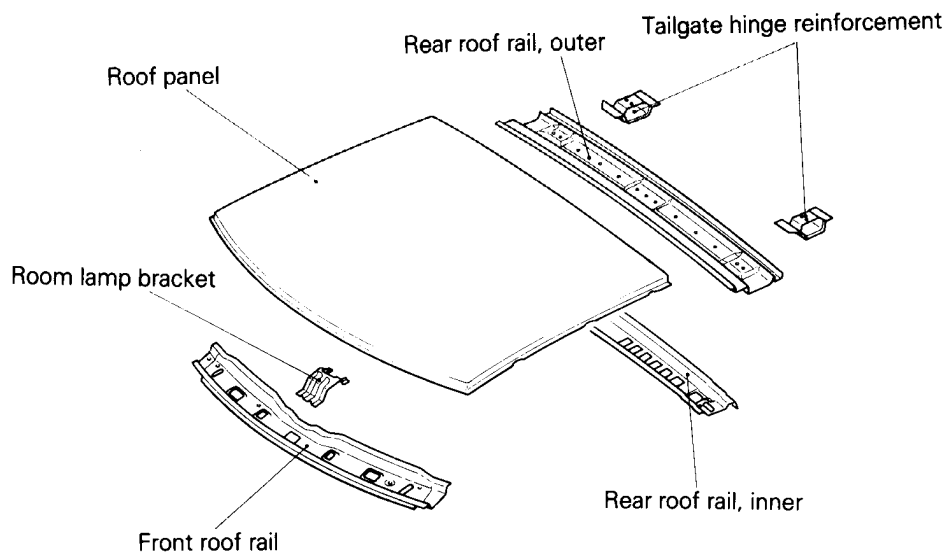
Rear Floor Crossmember, Upper

By providing a rear floor crossmember (upper) and coupling it with the side body, rigidity has been maintained and the spare tire is prevented from being pushed into the passenger compartment in a collision.

ROOF

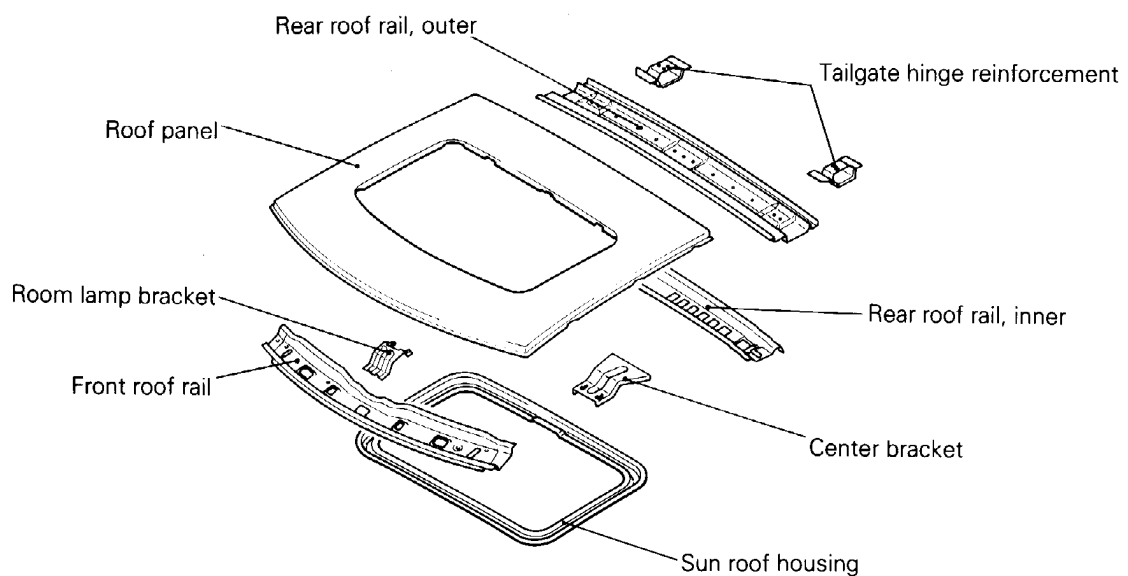
A construction without the roof bow has been achieved by making the roof surface small and increasing the camber.

(Vehicles without sun roof)



31A0229

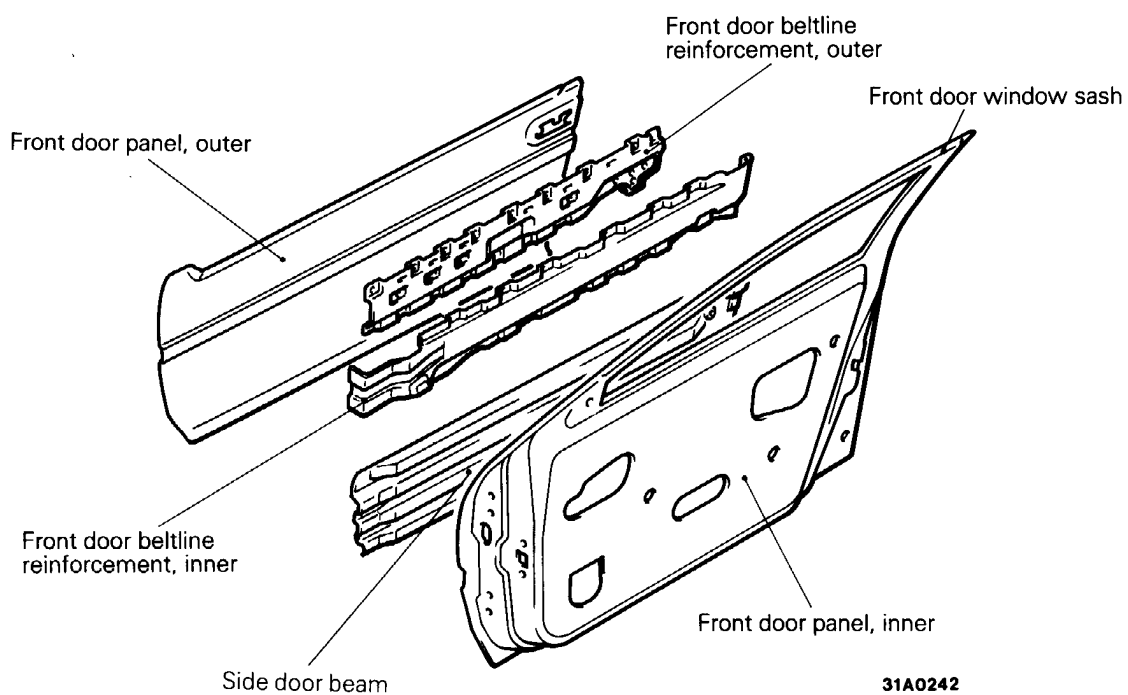
(Vehicles with sun roof)



31A0369

DOOR

Side door beam and beltline reinforcements have been provided in order to protect occupants during a collision from the side.

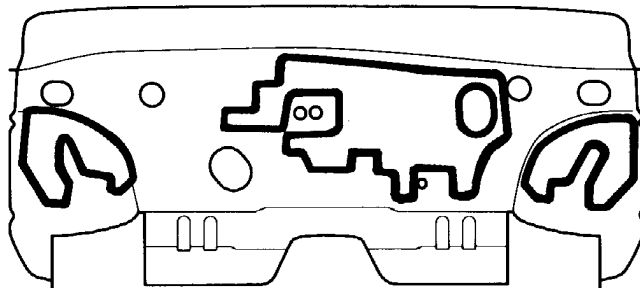


31A0242

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

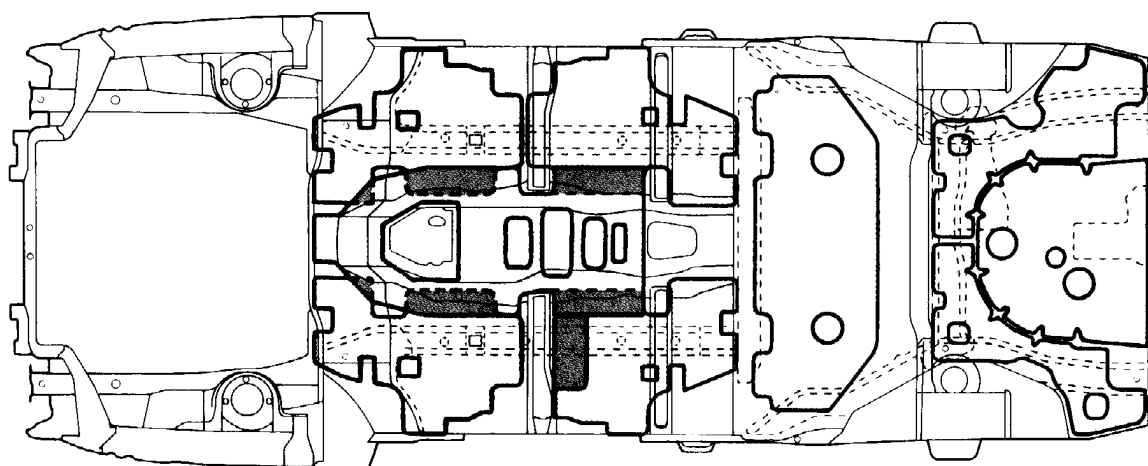
the silencers come off during welded panel replacement or other repairs, cut the replacement parts in the shapes indicated and apply them in the appropriate locations.



31A0216

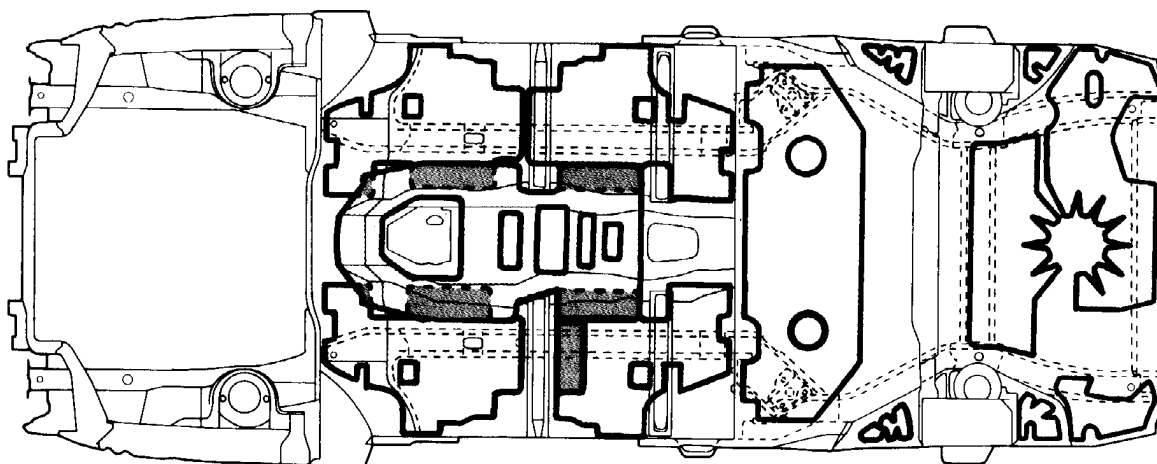
Passenger compartment side of the dash panel

<2WD>



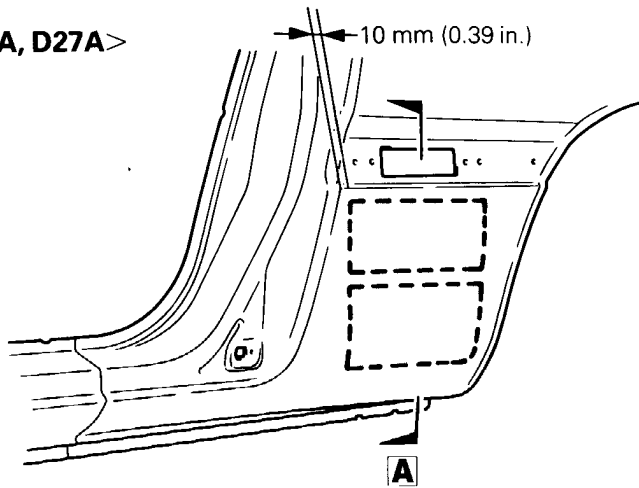
31A0233

<4WD>



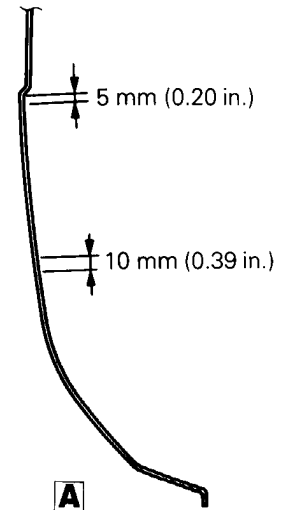
31A0359

<D22A, D27A>



31A0219

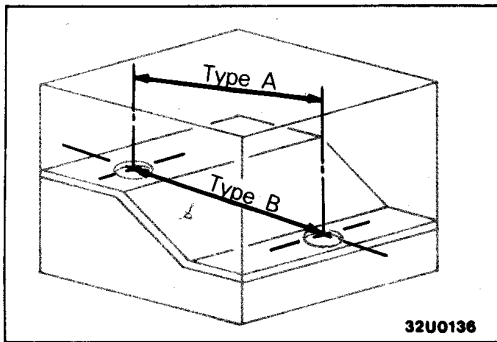
Attached to inner side of quarter panel

 1.6 mm (0.06 in.) thick

31A0217

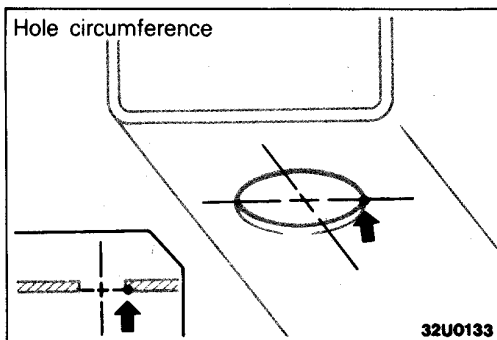
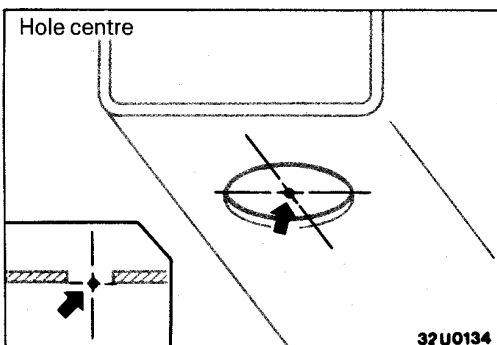
2 BODY DIMENSIONS

BODY DIMENSIONS AND MEASUREMENT	
METHODS	2-2
TYPE A	
(PROJECTED DIMENSIONS)	2-4
TYPE B	
(ACTUAL-MEASUREMENT DIMENSIONS)	2-6
UNDER BODY	2-6
ENGINE COMPARTMENT	2-8
UPPER BODY	2-8
SIDE BODY	2-9
INTERIOR	2-9
MEASUREMENT POINTS	2-10



mm (in.)				
No.	①	②	③*	④*
Length	940 (37.01)	928 (36.54)	1,240 (48.82)	706 (27.80)

31U0128



BODY DIMENSIONS AND MEASUREMENT METHODS

HOW BODY DIMENSIONS ARE INDICATED

1. Type A (Projected dimensions)
These are the dimensions measured when the measurement points are projected into the reference plane, and are the reference dimensions used for body alterations.
2. Type B (Actual-measurement dimensions)
These dimensions indicate the actual linear distance between measurement points, and are the reference dimensions for use if a tracking gauge is used for measurements.
3. The units given for the dimensions of both types (A and B) are mm (in.).

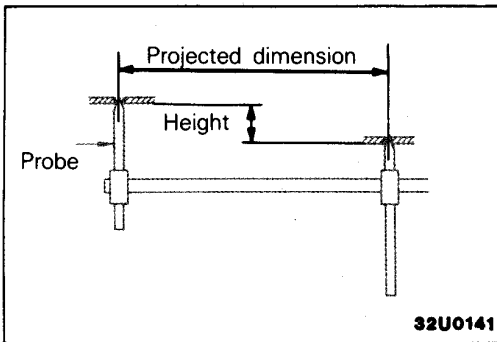
INDICATION OF REFERENCE DIMENSIONS

If the reference dimension number (in a circle) shown on the top line of the dimension table at left is marked with , measurements are taken of this dimension and another which are symmetrical with respect to the car centerline.

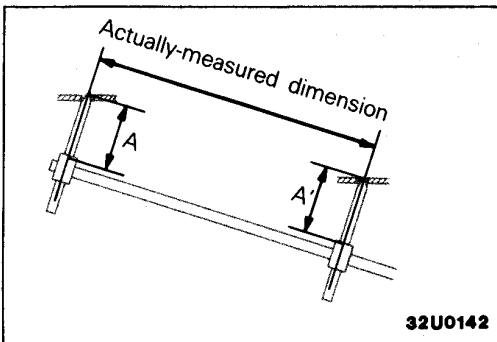
MEASUREMENT POINTS

Measurement points are used to indicate the following:

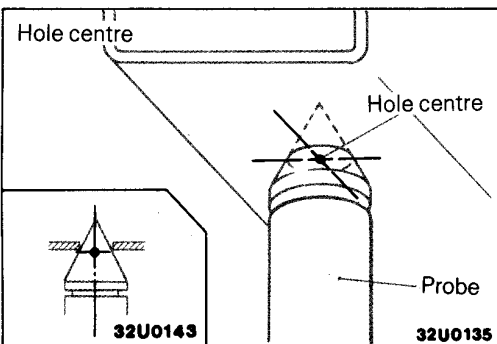
1. If a measurement is to be made at a hole centre, the point of the surface from which the measuring instrument is applied is the measurement point.
2. If a measurement is to be made at the circumference of a hole, the point of the hole circumference of the surface from which the measuring instrument is applied is the measurement point.



32U0141

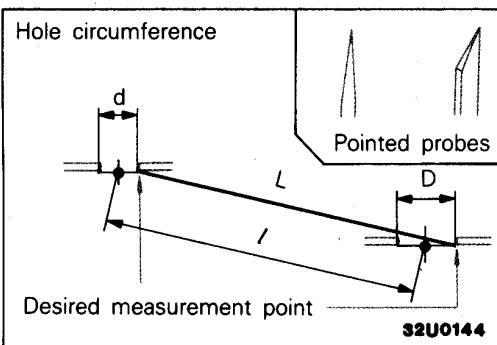


32U0142

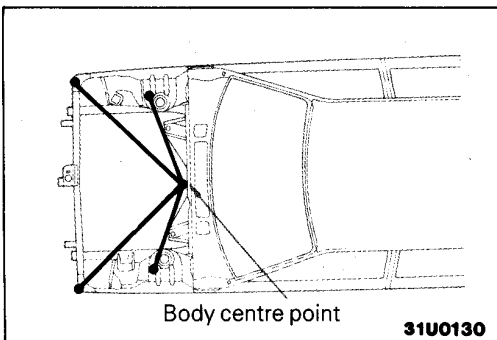


32U0143

32U0135



32U0144



31U0130

MEASUREMENT METHODS

USING A TRACKING GAUGE

NOTE

Use a tracking gauge without looseness between gauge body and probes.

1. TYPE A (PROJECTED DIMENSIONS)

If the length of the tracking gauge probes are adjustable, make the measurement by lengthening one probe by the amount equivalent to the difference in height of the two surfaces.

2. TYPE B (ACTUAL-MEASUREMENT DIMENSIONS)

Measure by first adjusting both probes to the same length ($A = A'$).

3. IF HOLE DIAMETERS ARE THE SAME AND THE PROBES ARE CONICAL

For both Type A and Type B, insert the probes into the holes, and then make the measurement. This method of measurement should be used if the diameters of the holes in the location to be measured are the same.

4. IF HOLE DIAMETERS ARE DIFFERENT, OR THE PROBES ARE POINTED

Because measurement at the hole centers is impossible, the circumferences must be used instead.

HOW TO DETERMINE DIMENSIONS

$$\text{Desired dimensions : } L = l + \frac{D - d}{2}$$

Example :

Reference dimensions : $l = 600$ (23.6)

Measured hole diameters : $D = 20\phi$ (0.79),

$d = 10\phi$ (0.39)

Desired dimensions :

$$L = 600 (23.6) + \frac{20\phi (0.79) - 10\phi (0.39)}{2}$$

$$= 605 (23.8)$$

mm (in.)

BODY CENTRE POINTS

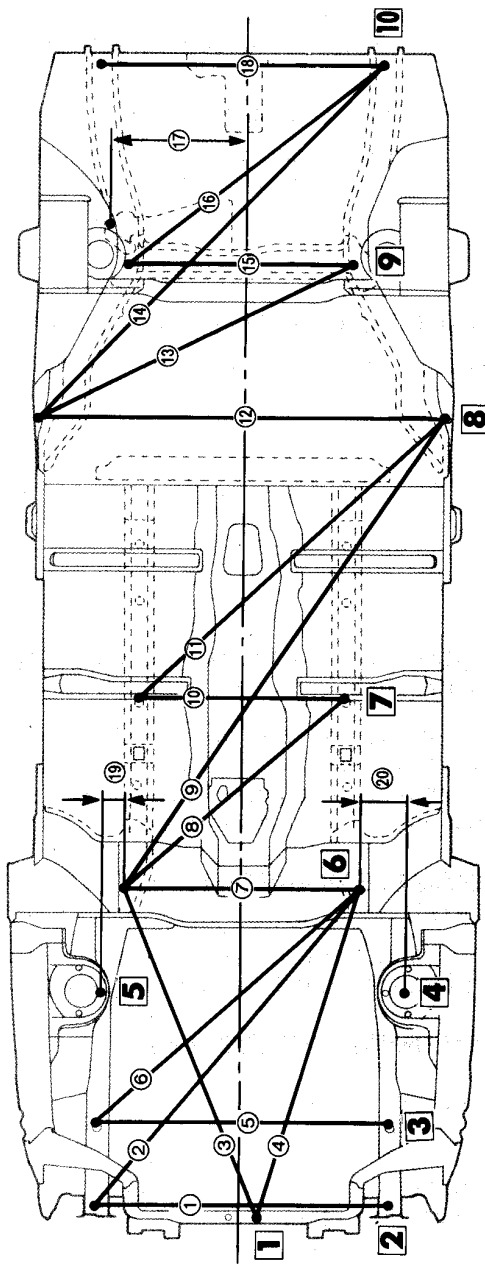
When measuring locations that should be symmetrical left and right and there are no specific instructions with regard to measurements in "Body Dimensions", the body centre points should be used to confirm that the left and right measurements from these points are the same. One body centre point is specified for the front of the body and another is specified for the rear.

TYPE A (PROJECTED DIMENSIONS)

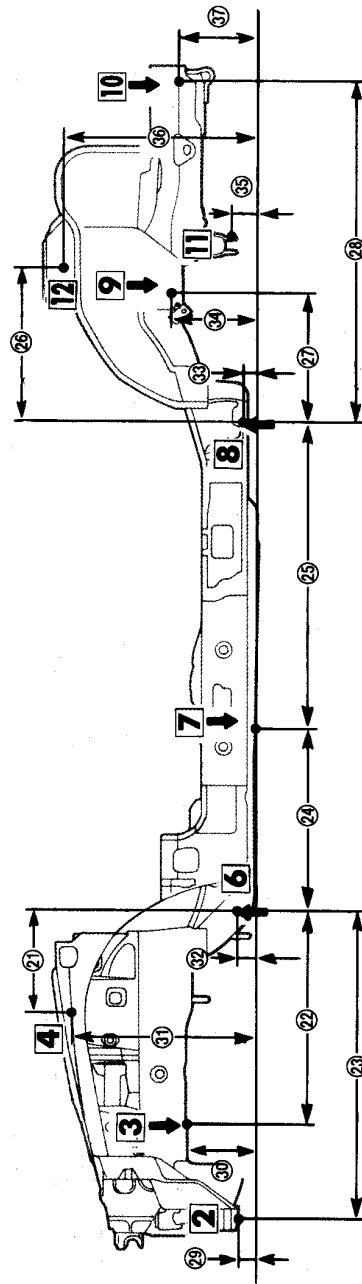
<2WD>

mm (in.)

No.	Length	No.	Length
①	980 (38.53)	②①	140 (5.51)
②★	1,339 (52.73)	②①	312 (12.28)
③	1,106 (43.55)	②②	729 (28.70)
④	1,075 (42.34)	②③	1,001 (39.41)
⑤	960 (37.80)	②④	672 (26.46)
⑥★	1,143 (44.99)	②⑤	932 (36.69)
⑦	800 (31.50)	②⑥	540 (21.26)
⑧★	1,012 (39.85)	②⑦	520 (20.47)
⑨★	1,925 (75.80)	②⑧	1,110 (43.70)
⑩	714 (28.11)	②⑨	75 (2.95)
⑪★	1,383 (54.46)	②⑩	L.H. 238 (9.37)
⑫	1,330 (52.36)		R.H. 238 (9.37)
⑬★	1,185 (46.66)	③①	636 (25.04)
⑭★	1,595 (62.78)	③②	58 (2.28)
⑮	800 (31.50)	③③	39 (1.54)
⑯★	1,060 (41.71)	③④	272 (10.71)
⑰	439 (17.28)	③⑤	101 (3.98)
⑱	960 (37.80)	③⑥	580 (22.84)
⑲	71 (2.80)	③⑦	239 (9.41)



32A0117



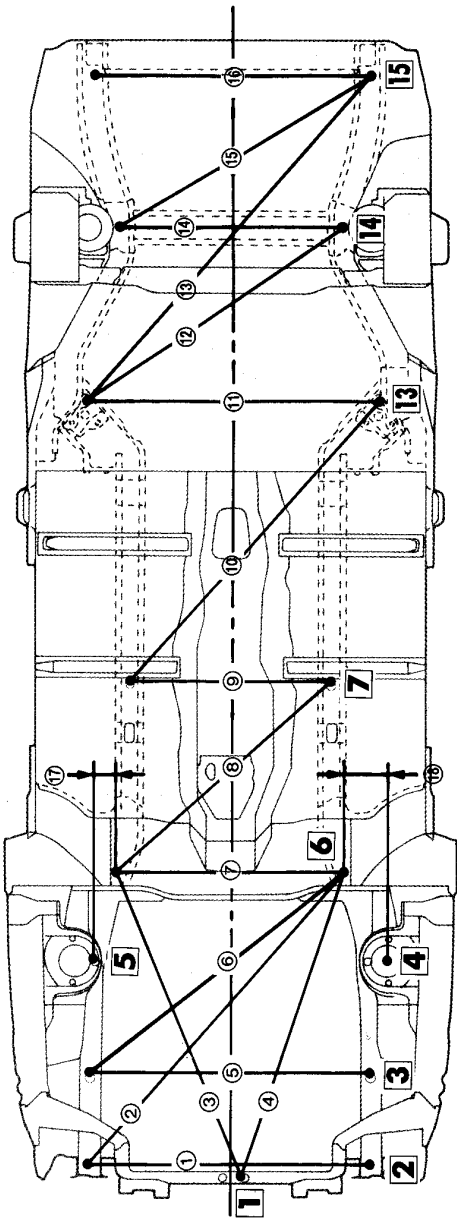
32A0113

NOTE: The ↑ symbol indicates the frame centering gauge installation positions.

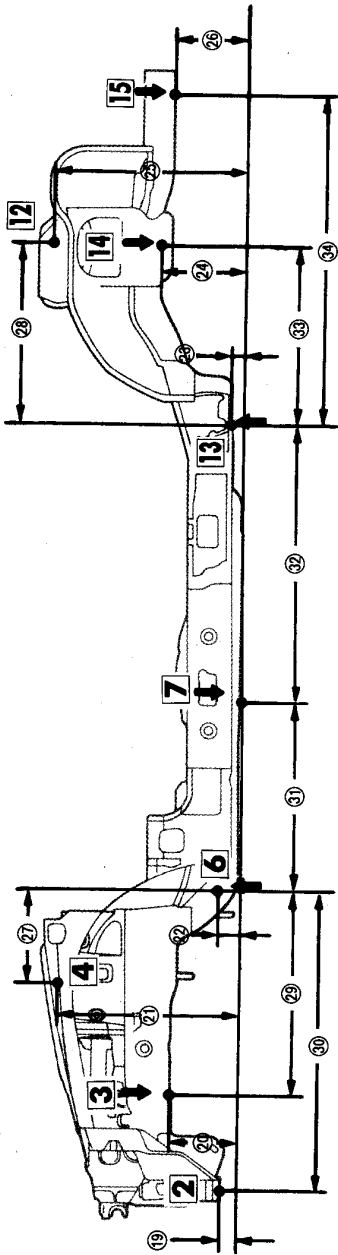
<4WD>

mm (in.)

No.	Length	No.	Length
①	980 (38.58)	②①	636 (25.04)
②*	1,339 (52.73)	②②	58 (2.28)
③	1,106 (43.55)	②③	115 (4.53)
④	1,075 (42.34)	②④	267 (10.51)
⑤	960 (37.80)	②⑤	565 (22.24)
⑥*	1,143 (44.99)	②⑥	238 (9.37)
⑦	800 (31.50)	②⑦	312 (12.28)
⑧*	1,012 (39.85)	②⑧	593 (23.35)
⑨	714 (28.11)	②⑨	729 (28.70)
⑩*	1,282 (50.46)	③⑩	1,001 (39.41)
⑪	1,020 (40.16)	③⑪	672 (26.46)
⑫*	1,079 (42.48)	③⑫	944 (37.17)
⑬*	1,501 (59.09)	③⑬	595 (23.43)
⑭	780 (30.71)	③⑭	1,128 (44.41)
⑮*	1,020 (40.17)		
⑯	960 (37.80)		
⑰*	71 (2.80)		
⑱*	140 (5.51)		
⑲	75 (2.95)		
⑳	238 (9.37)		



32A0143



32A0142

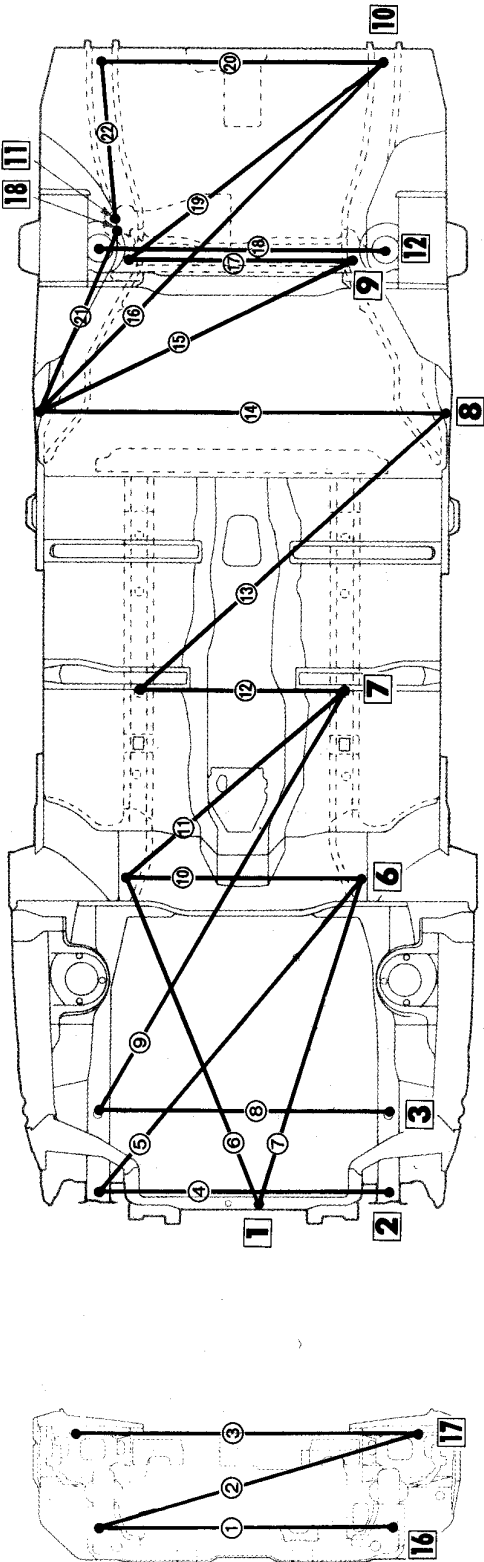
NOTE: The  symbol indicates the frame centering gauge installation positions.

TYPE B (ACTUAL-MEASUREMENT DIMENSIONS)

UNDER BODY

<2WD>

		mm (in.)										
No.	①	②★	③	④	⑤★	⑥	⑦	⑧	⑨	⑩	⑪★	
Length	1,000 (39.37)	1,139 (44.84)	1,170 (46.06)	980 (38.58)	1,340 (52.76)	1,106 (43.54)	1,075 (42.34)	960 (37.80)	1,649 (64.93)	800 (31.50)	1,014 (39.92)	
No.	⑫	⑬★	⑭	⑮★	⑯★	⑰	⑱	⑲★	⑳	㉑	㉒	
Length	714 (28.11)	1,384 (54.49)	1,330 (52.36)	1,208 (47.56)	1,607 (63.27)	800 (31.50)	968 (38.11)	1,060 (41.73)	960 (37.80)	635 (25.00)	493 (19.41)	

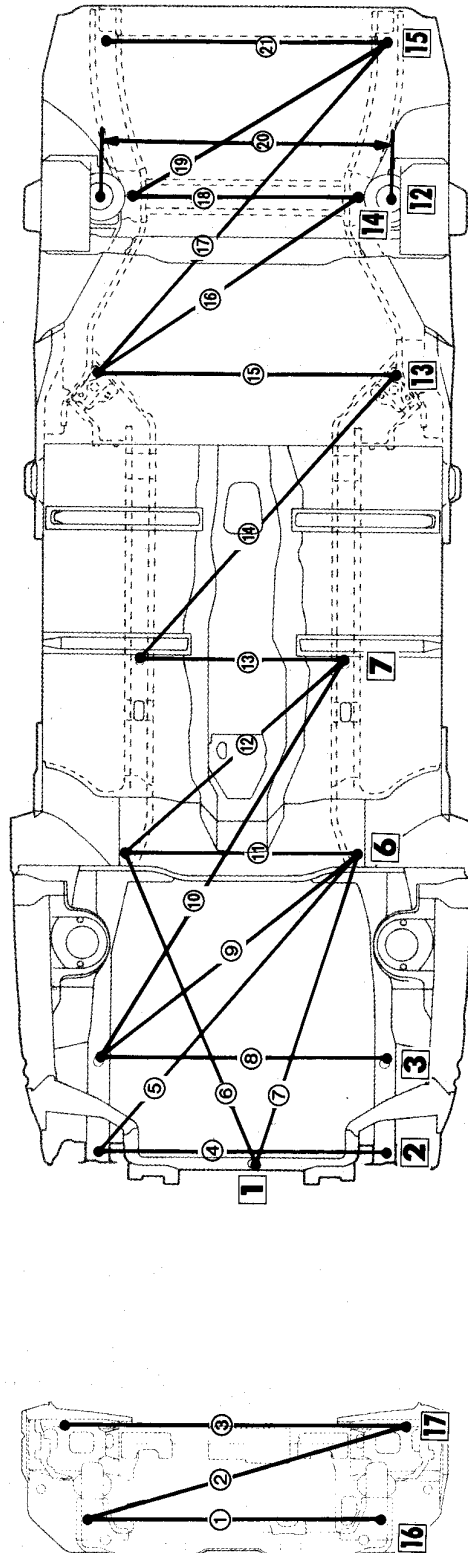


32A0118

32A0115

<4WD>

		mm (in.)									
No.	①	②★	③	④	⑤★	⑥	⑦	⑧	⑨★	⑩★	⑪
Length	1,000 (39.37)	1,139 (44.84)	1,170 (46.06)	980 (38.53)	1,340 (52.74)	1,106 (43.55)	1,075 (42.34)	960 (37.80)	1,157 (45.54)	1,649 (64.92)	800 (31.50)
No.	⑫★	⑬	⑭★	⑮	⑯★	⑰★	⑱	⑲★	⑳	㉑	
Length	1,014 (39.92)	714 (28.11)	1,287 (50.66)	1,020 (40.16)	1,090 (42.90)	1,506 (59.29)	780 (30.71)	1,021 (40.19)	972 (38.27)	960 (37.80)	



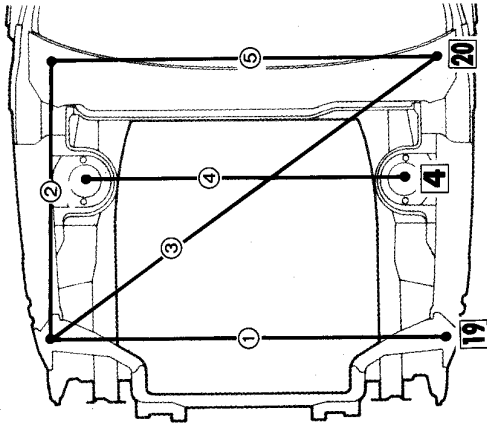
32A0118

32A0144

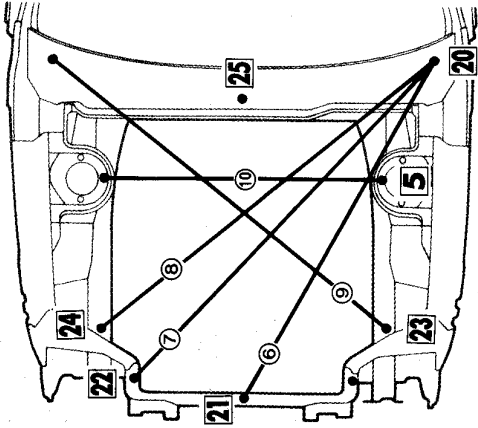
ENGINE COMPARTMENT

No.	①	②★	③★	④	⑤	⑥★	⑦★	⑧	⑨	⑩
Length	1,294 (50.95)	814 (32.06)	1,555 (61.22)	1,080 (42.52)	1,356 (53.39)	1,266 (49.86)	1,453 (57.22)	1,501 (59.09)	1,501 (59.09)	942 (37.09)

mm (in.)



32A0110

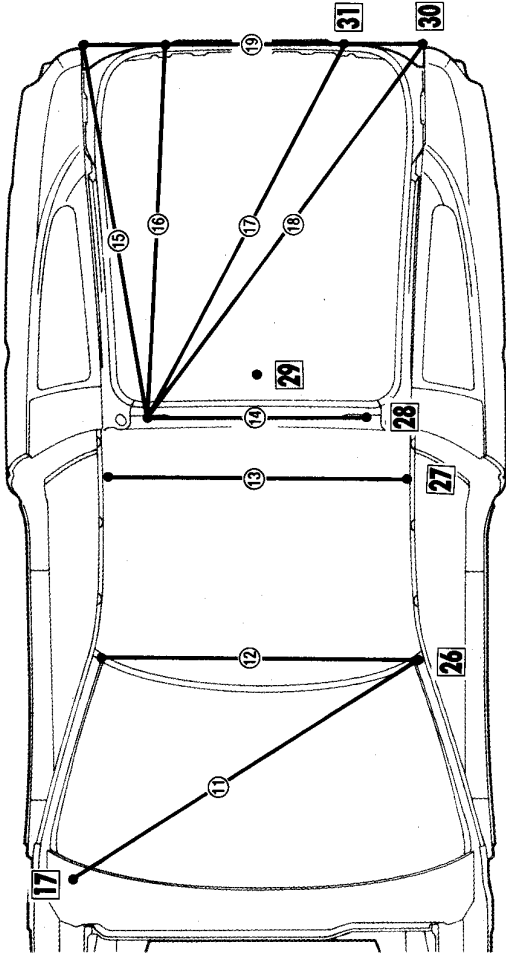


32A0111

UPPER BODY

No.	⑪★	⑫	⑬	⑭	⑮★	⑯★	⑰★	⑱★	⑲
Length	1,529 (60.20)	1,108 (43.62)	1,050 (41.34)	716 (28.19)	1,323 (52.09)	1,277 (50.29)	1,451 (57.11)	1,603 (63.11)	1,144 (45.04)

mm (in.)

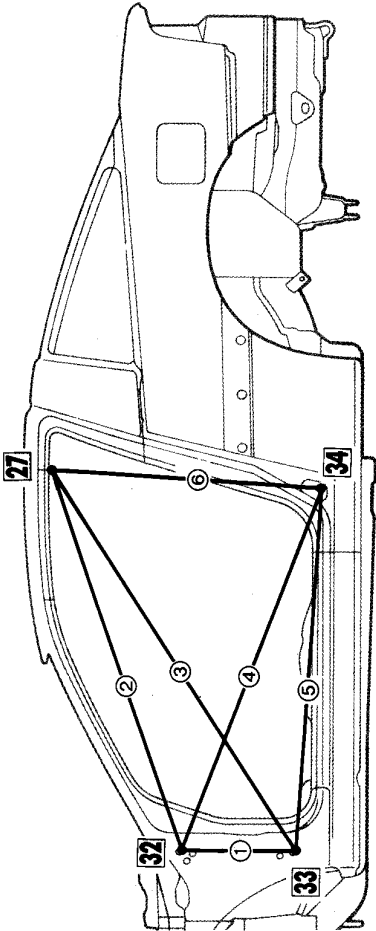


32A0109

SIDE BODY

mm (in.)

NO.	Length	No.	Length
①	360 (14.18)	④	1,235 (48.63)
②	1,270 (49.98)	⑤	1,154 (45.42)
③	1,435 (56.48)	⑥	917 (36.12)

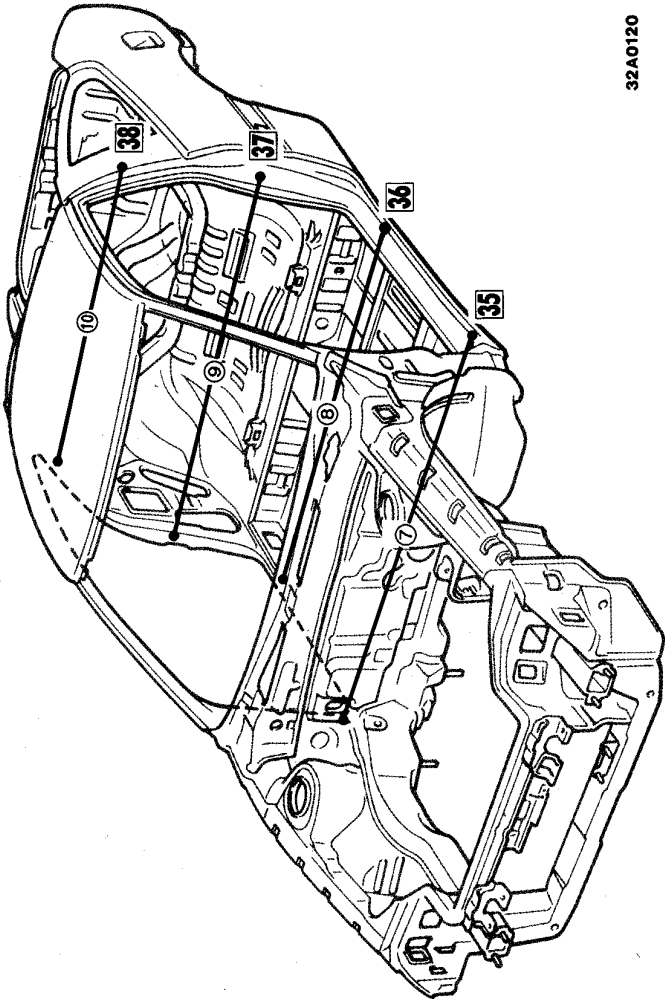


32A0114

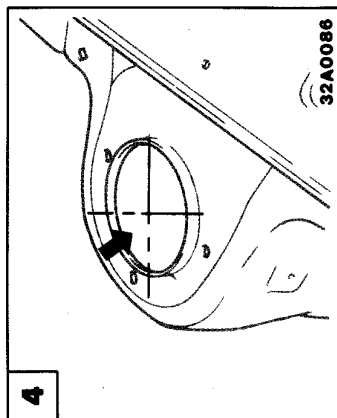
INTERIOR

mm (in.)

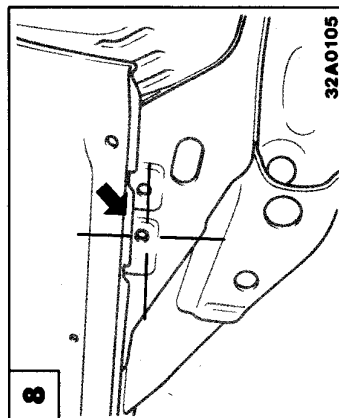
No.	Length	No.	Length
⑦	1,544 (60.79)	⑧	1,498 (58.98)
⑨	1,530 (60.24)	⑩	1,164 (45.83)



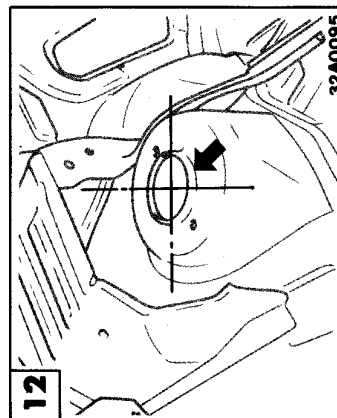
32A0120



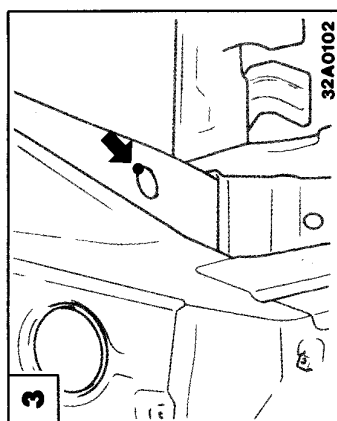
Strut insulator center



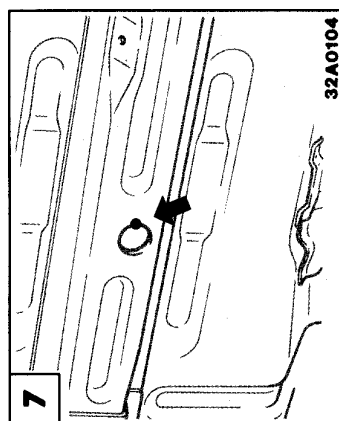
Centre of rear floor side sill water drainhole [diameter: 10mm (0.39in.)]



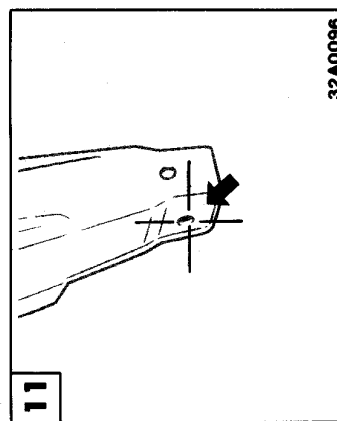
Centre of rear shock absorber mounting hole [diameter: 80mm (3.15in.)]



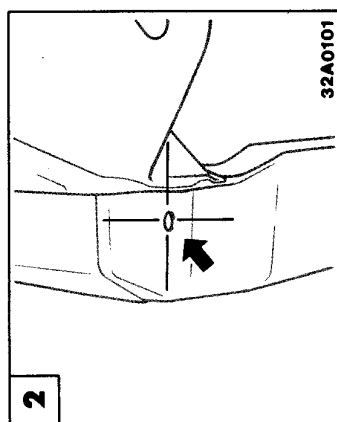
Rear edge of front sidemember locating hole [diameter: 25mm (0.98in.)]



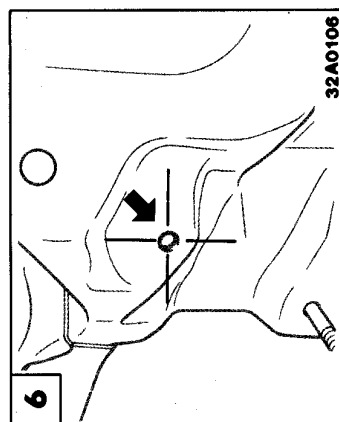
Rear edge of front floor sidemember water drainhole [diameter: 25mm (0.98in.)]



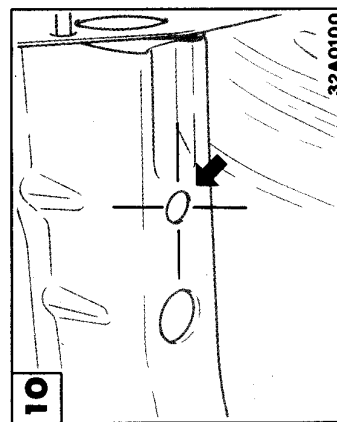
Centre of lateral rod bracket mounting hole [diameter: 12.2mm (0.48in.)]



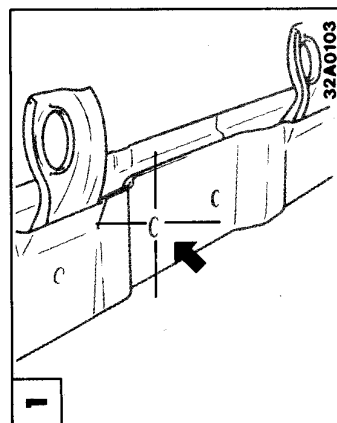
Centre of front end crossmember locating hole [diameter: 10mm (0.39in.)]



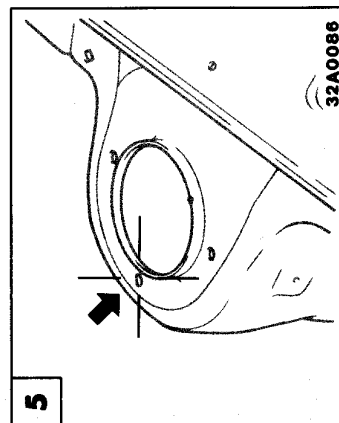
Centre of crossmember mounting hole [diameter: 15mm (0.59in.)]



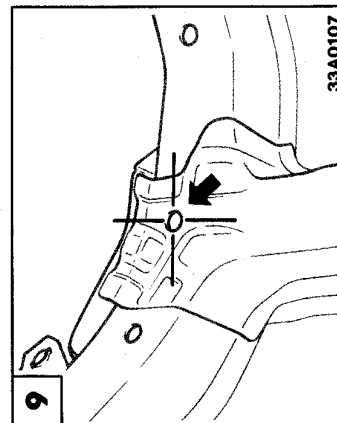
Centre of rear floor sidemember locating hole [diameter: 20mm (0.79in.)]



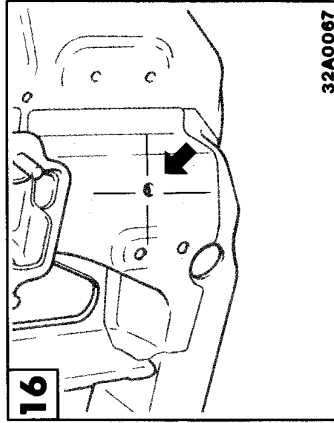
Centre of center member mounting hole [diameter: 14mm (0.55in.)]



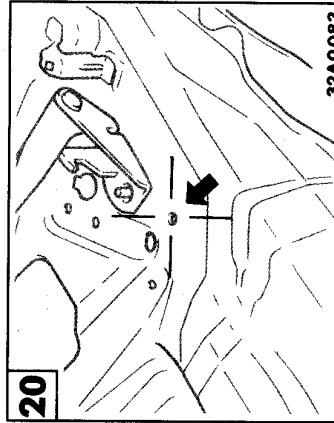
Centre of strut insulator mounting hole [diameter: 11mm (0.43in.)]



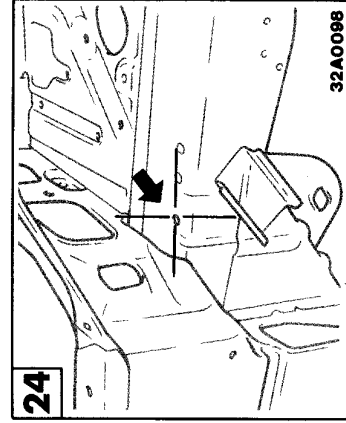
Centre of rear floor sidemember locating hole [diameter: 18mm (0.71in.)]



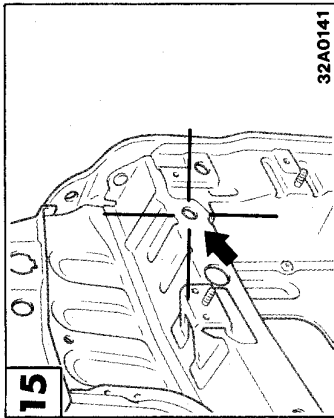
32A0087
Centre of sidemember to crossmember
brace location hole [diameter: 10mm
(0.39in.)]



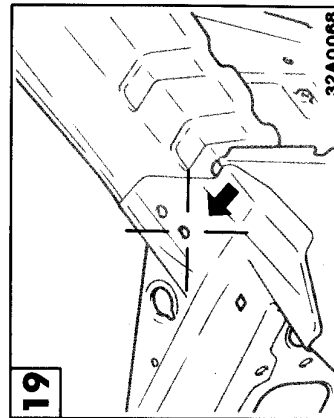
32A0083
Centre of front fender mounting hole
[diameter: 9mm (0.35in.)]



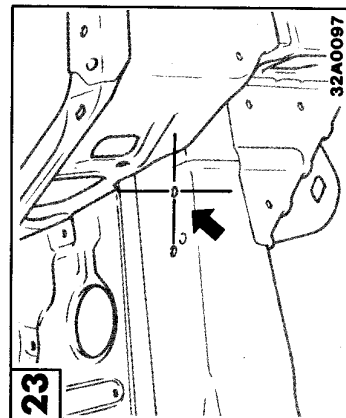
32A0088
Centre of harness clip mounting hole
[diameter: 7mm (0.28in.)]



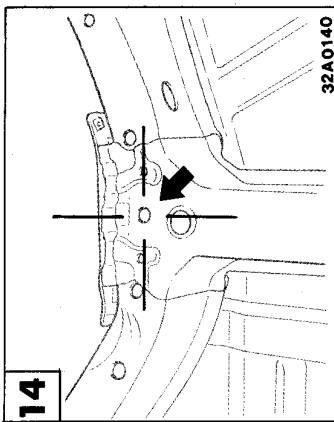
32A0141
Centre of rear sidemember locating hole
[diameter: 20mm (0.79in.)]



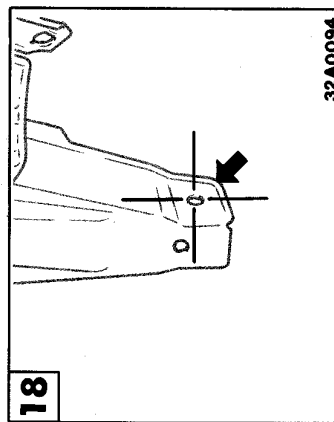
32A0068
Centre of front fender mounting hole
[diameter: 8mm (0.32in.)]



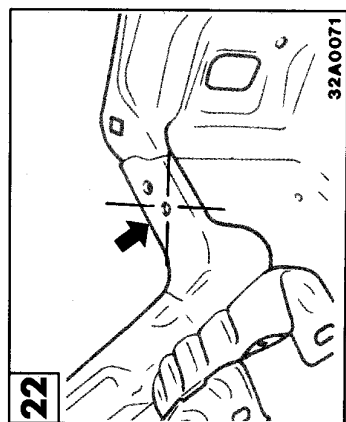
32A0097
Centre of harness clip mounting hole
[diameter: 7mm (0.28in.)]



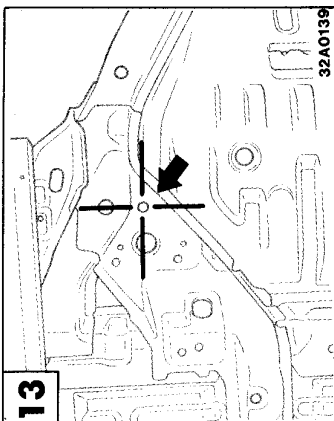
32A0140
Centre of differential support member
mounting hole [diameter: 20mm
(0.79in.)]



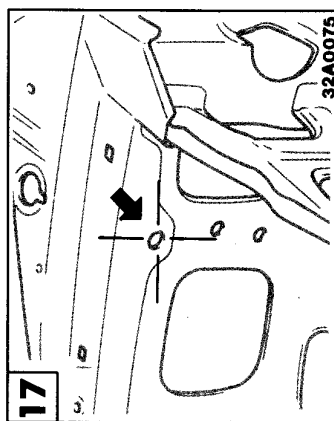
32A0094
Centre of lateral rod bracket mounting
hole [diameter: 12.2mm(0.48in.)]



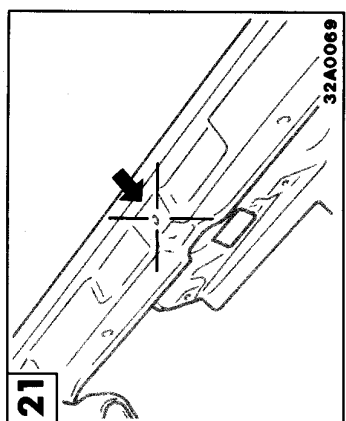
32A0071
Centre of front end upper bar location
hole [diameter: 8mm (0.32in.)]



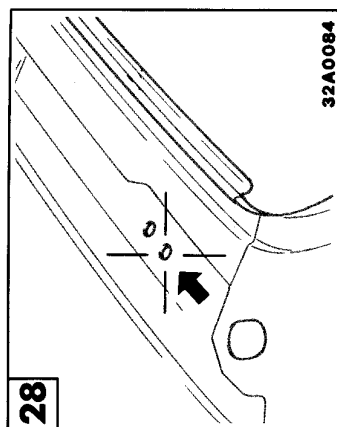
32A0139
Centre of crossmember mounting hole
[diameter: 15mm (0.59in.)]



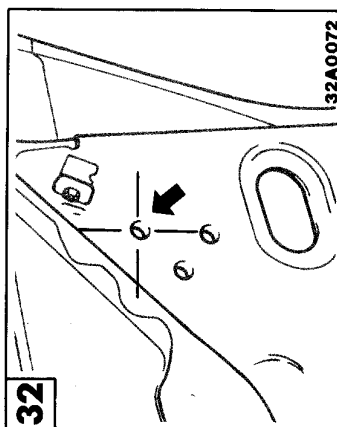
32A0075
Centre of headlight motor mounting hole
[diameter: 11mm (0.43in.)]



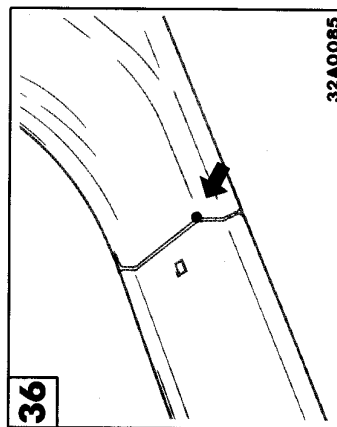
32A0069
Body centre reference hole
[diameter: 6mm (0.24in.)]



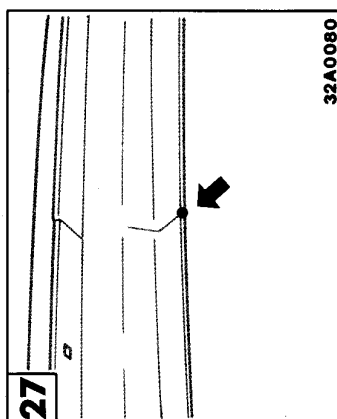
32A0084
Centre of tailgate hinge mounting hole
[diameter: 12mm (0.47in.)]



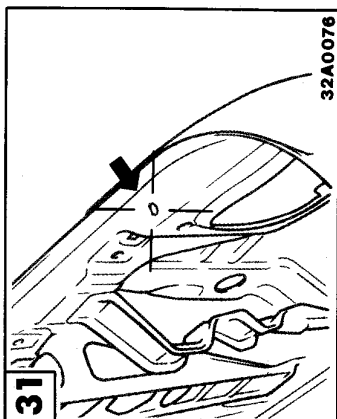
32A0072
Centre of front door hinge mounting hole
[diameter: 10.5mm (0.41in.)]



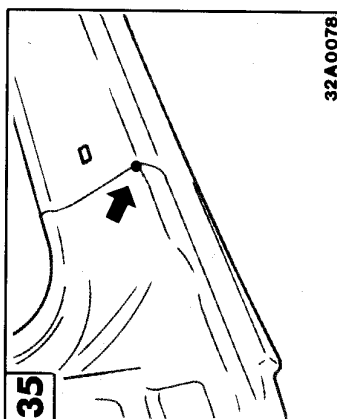
32A0085
Joint of quarter panel and side sill



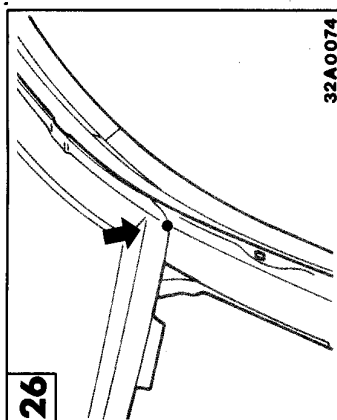
32A0080
Joint of centre pillar outer and side roof
rail outer



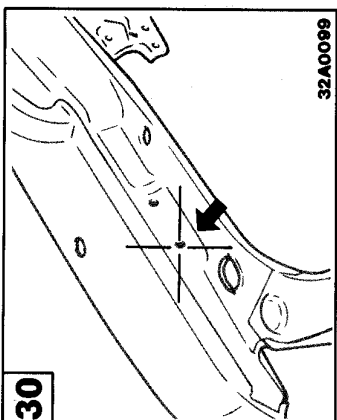
32A0078
Centre of rear end trim mounting hole
[diameter: 7mm (0.28in.)]



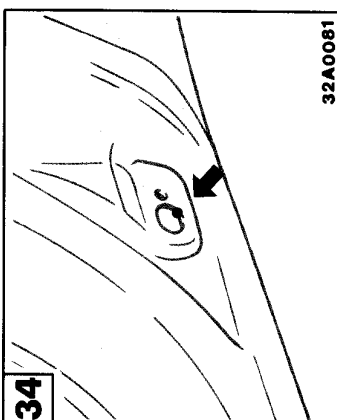
32A0078
Joint of front pillar and side sill



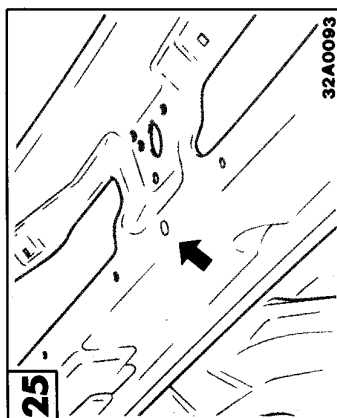
32A0074
Joint of roof and front pillar



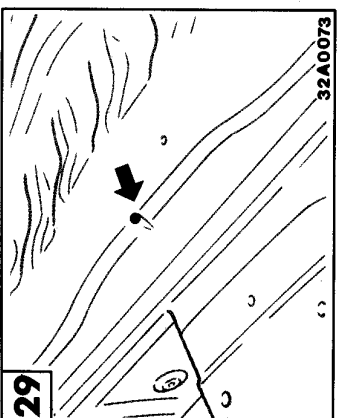
32A0099
Centre of tailgate damper mounting hole
[diameter: 6.6 mm (0.26in.)]



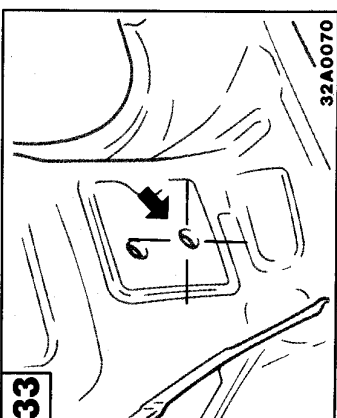
32A0081
Rear door switch mounting hole



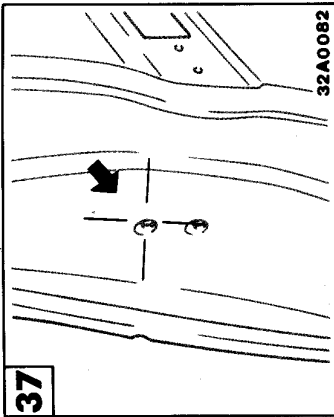
32A0093
Body centre point reference location



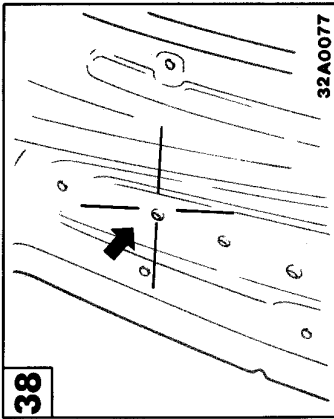
32A0073
Body centre point reference location



32A0070
Centre of front door hinge mounting hole
[diameter: 10.5mm (0.41in.)]



Centre of front door striker mounting hole
hole [diameter: 14mm (0.55 in.)]



Centre of seat belt rail mounting hole
[diameter: 11mm (0.43in.)]

3

WELDED PANEL REPLACEMENT

EXPLANATION OF MANUAL CONTENTS 3-2
WELDING POINTS AND WELDING PROCEDURE
NOTES WITH REGARD TO REPAIR WORK-

HEADLAMP SUPPORT (ASSEMBLY) ...	3-4	70
HEADLAMP SUPPORT (PART)	3-6	70
FRONT END UPPER BAR	3-8	—
FRONT FENDER SHIELD	3-10	71
FENDER SHIELD ASSEMBLY	3-12	72
FRONT DECK	3-14	72
FRONT PILLAR	3-16	73
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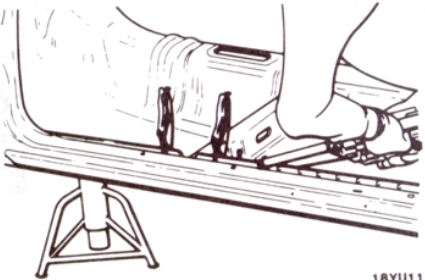
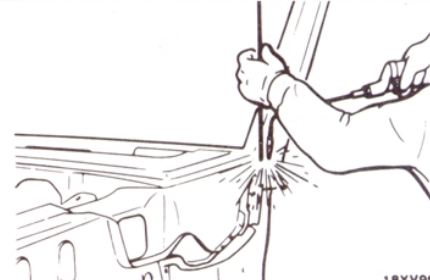
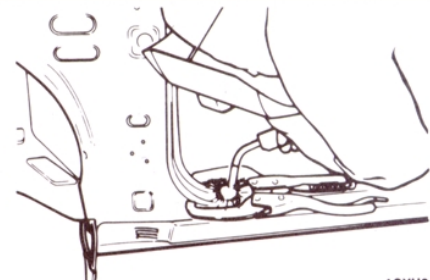
WELDED PANEL REPLACEMENT

EXPLANATION OF MANUAL CONTENTS

The basic parts supply units of the body structure are the weld-mounted outer panels. Herein are explained the procedures for replacement of these panels.

SYMBOLS

The various operations for panel replacement are designated by the following symbols.

Symbol	Operation description	Illustration
	Spot welding	
	MIG spot welding	
	MIG arc welding (continuous)	
	Braze welding	
 	MIG plug welding  indicates two panels to be welded  indicates three panels to be welded	

EXPLANATION OF WELDED PANEL REPLACEMENT

The replacement parts to be used in the welded panel replacement are indicated here:

- “ASSEMBLY” indicates that the assembly part (for example, [A]) is to be used without alteration.
- “CUT” indicates that the replacement panel (for example, [A]) is to be cut into easy-to-use sections and then used for replacement.
- “PART” indicates that only the damaged section of the assembly part (for example, [A]) is to be replaced by a section of the replacement panel.

Note that, in “CUT” and “PART” replacement, the location of the cutting must be selected carefully, considering both the construction of the vehicle and the level of strength following repairs.

Shows the part names keyed by symbols in the illustration.

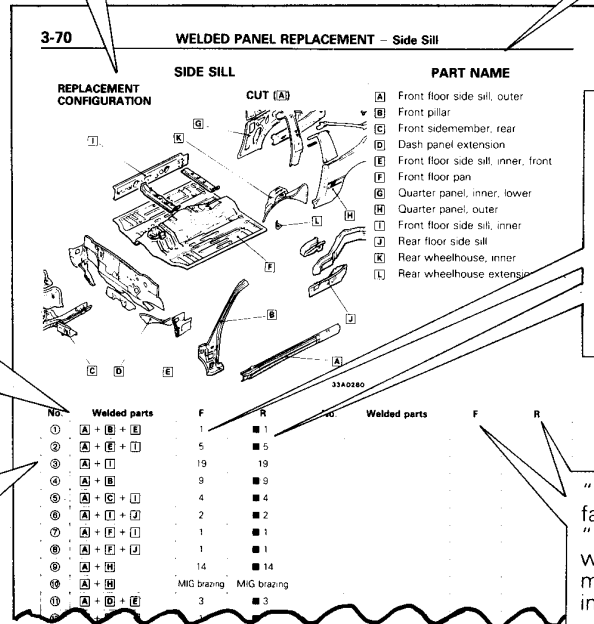
The welded components are indicated by using the designations given in the illustration.

For example, “A + B” indicates that component [A] and component [B] shown in the illustration are welded together.

★ This mark is used to indicate the weld of a part which is especially important to the vehicle body from a structural viewpoint; therefore, the weld must be made securely.

The weld point classification numbers are indicated:

- indicates one panel to be replaced.
- indicates two (or more) panels to be replaced.

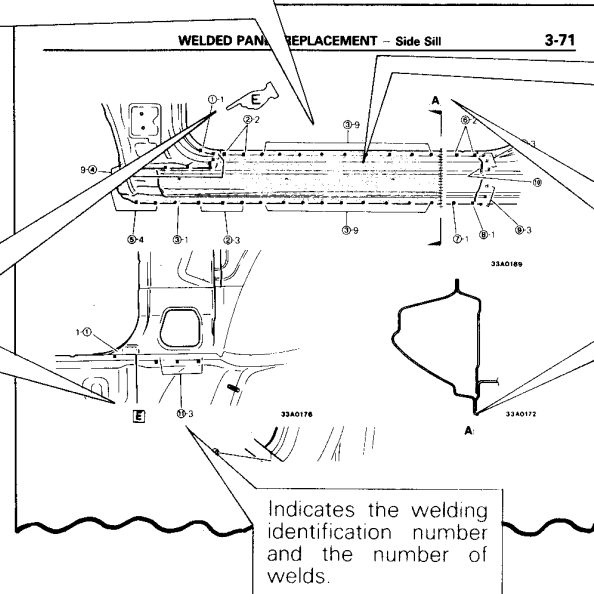


If only a number is listed, it indicates that the method is spot welding; for all other methods, both the welding method and the number of welds will be indicated. For example, “F5, R ■ 5” indicates that the 5 spot welds made at the factory should be replaced by 5 plug welds if repairs are made.

“F” indicates the number of factory welds to be separated. “R” indicates the number of welds to be made, and the method to be used, when making repairs.

For weld points (flange parts, etc.) on the same surface, only weld points at both ends are indicated; weld points between those end weld points are omitted.

Indicates a view as seen from the direction of the finger. “E” indicates that the view as seen from the direction of “E” is shown in figure [E].



Parts indicated by a light black colour are panels to be replaced.

Indicates cross section and its position. If arrow (→) is directed from rear to front in drawing, cross section viewed from front side of drawing is shown at [A].

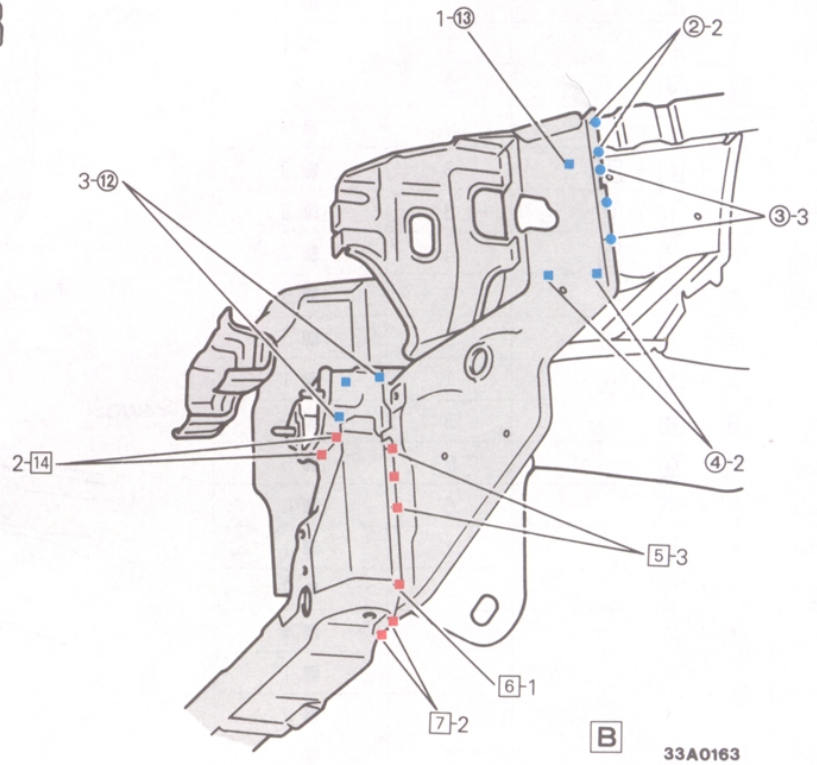
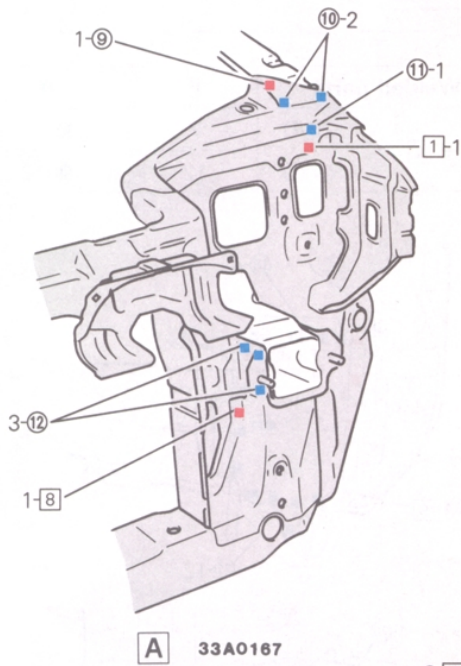
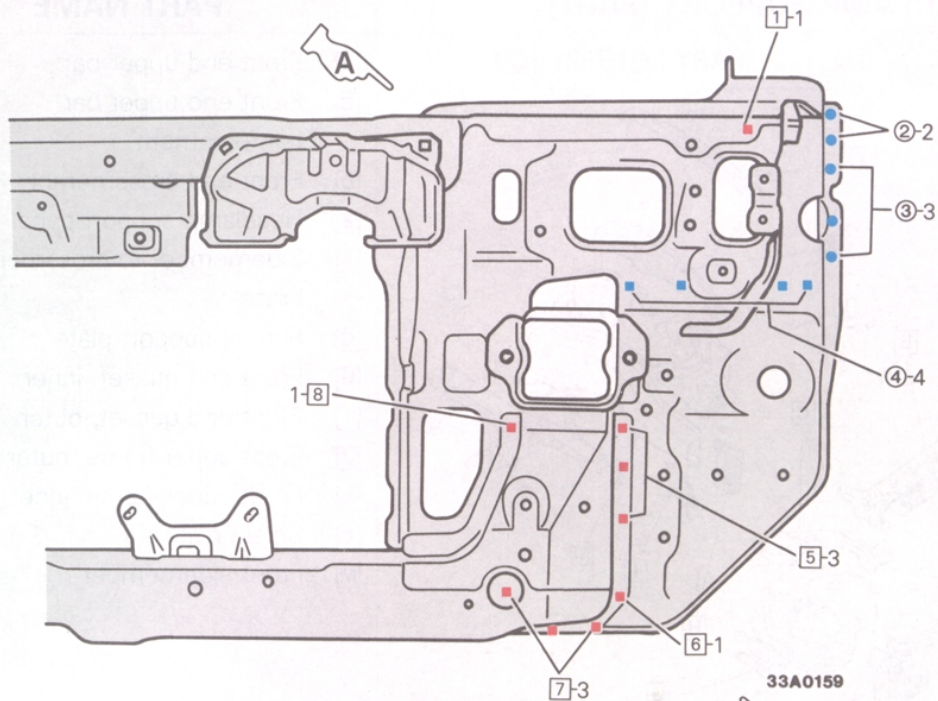
Indicates the welding identification number and the number of welds.

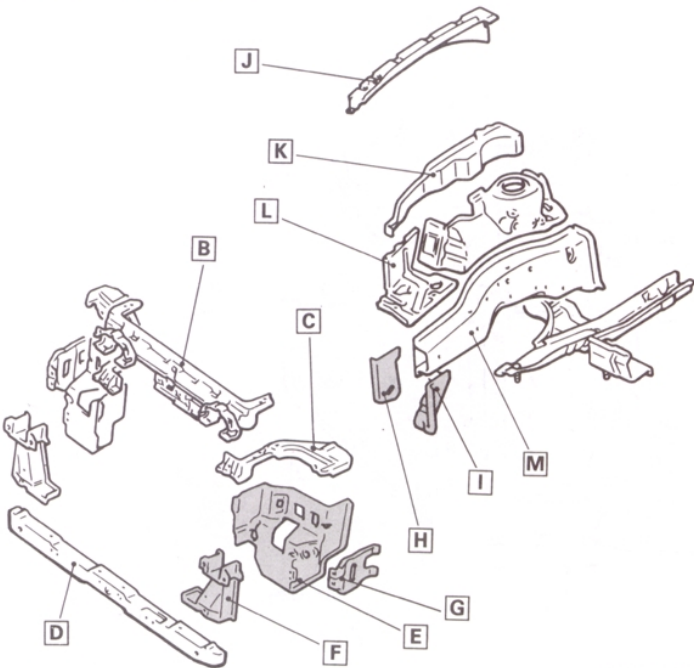
NOTES WITH REGARD TO REPAIR WORK

Notes with regard to repair work are given at the end of the “Welded Panel Replacement.”

HEADLAMP SUPPORT (ASSEMBLY)		PART NAME
REPLACEMENT CONFIGURATION	ASSEMBLY (A)	A Headlamp support H Front end gusset, inner I Front end gusset, outer J Front upper frame, outer K Front upper frame, inner L Shield plate M Front sidemember
	33A0279	

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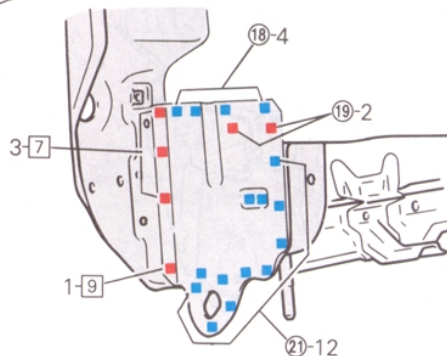
HEADLAMP SUPPORT (PART)		PART NAME
REPLACEMENT CONFIGURATION	PART (E F G H I)	
		B Front end upper bar C Front end upper bar reinforcement D Front end crossmember E Headlamp support panel F Sidemember to crossmember brace G Fender support plate H Front end gusset, inner I Front end gusset, outer J Front upper frame, outer K Front upper frame, inner L Shield plate M Front sidemember

33A0279

No.	Welded parts	F	R
①	E + C	7	7
②	E + C + K	1	■ 1
③	E + B	1	■ 1
④	E + B	1	■ 1
⑤	E + J	2	2
⑥	E + L	9	■ 9
⑦	E + F + I	3	■ 3
⑧	E + I + D	3	■ 3
⑨	E + H + D	4	■ 4
⑩	F + D	5	■ 5
⑪	E + F	5	■ 5
⑫	E + F + H	1	■ 1
⑬	G + C	3	■ 3
⑭	E + G	5	■ 5
⑮	F + M	6	■ 6
⑯	E + K	1	■ 1
⑰	F + M	2	■ 2
⑱	I + M	4	■ 4
⑲	I + M	2WD	1
		4WD	■ 2
⑳	H + M	4	■ 4

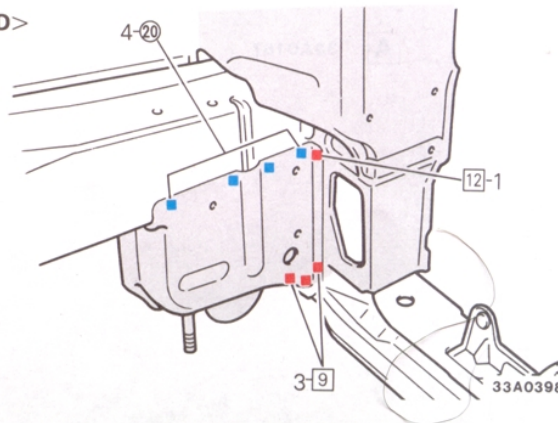
No.	Welded parts	F	R
⑳	H + I	2WD	7
		4WD	■ 12

<4WD>

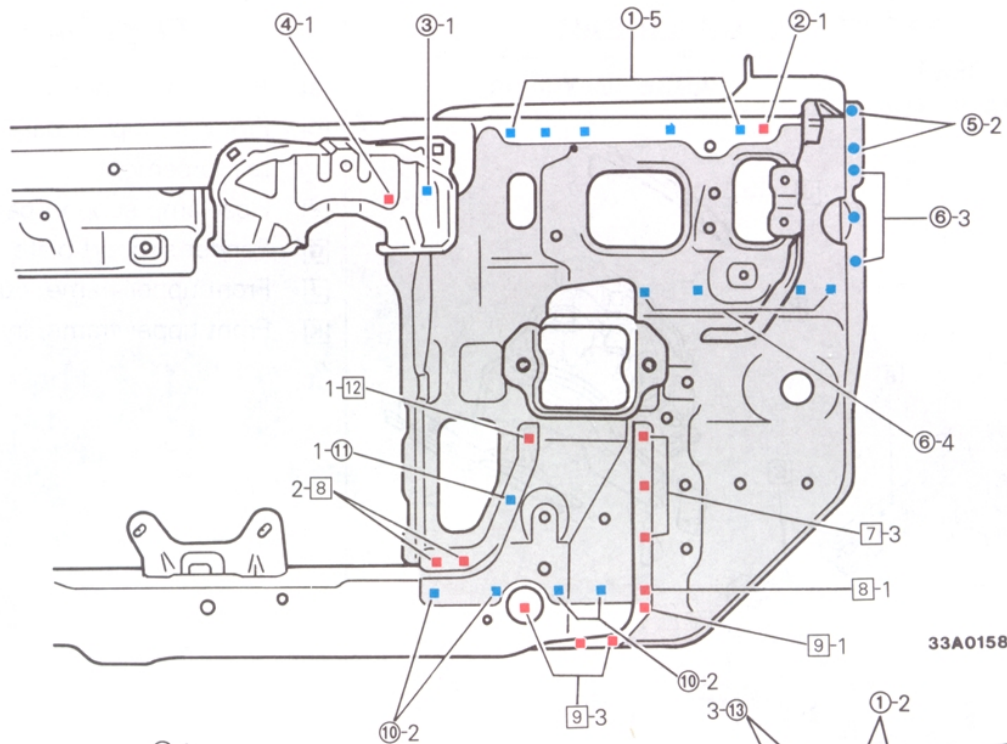


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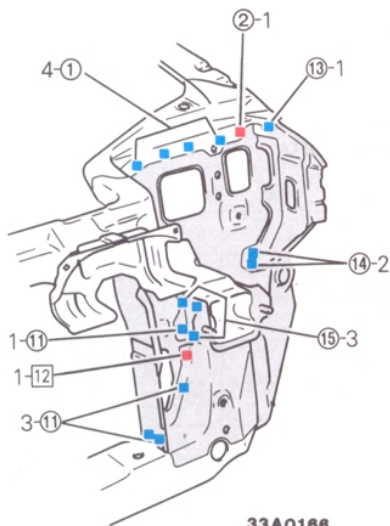
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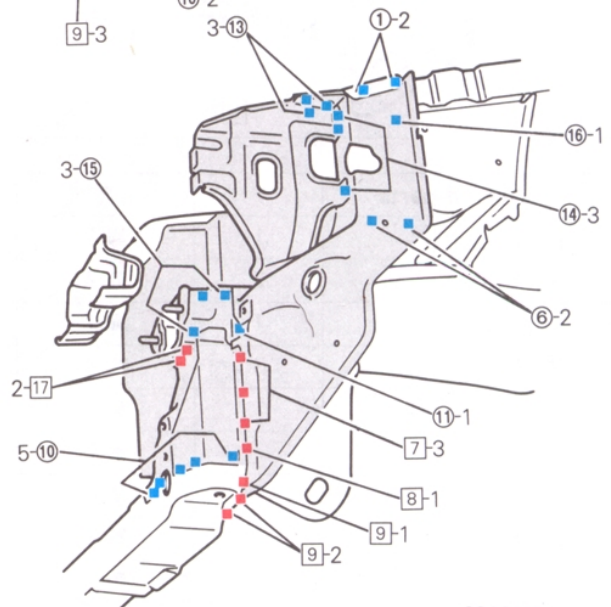
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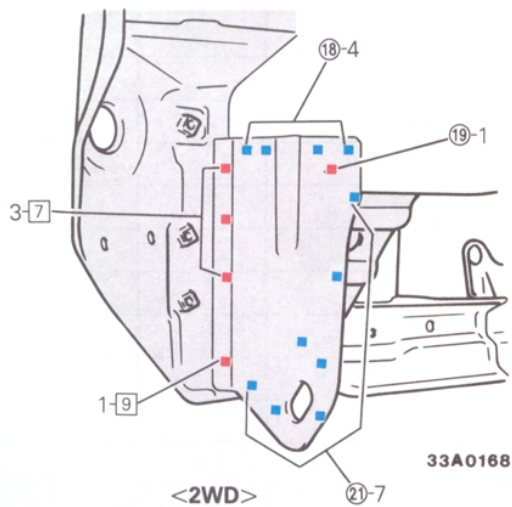
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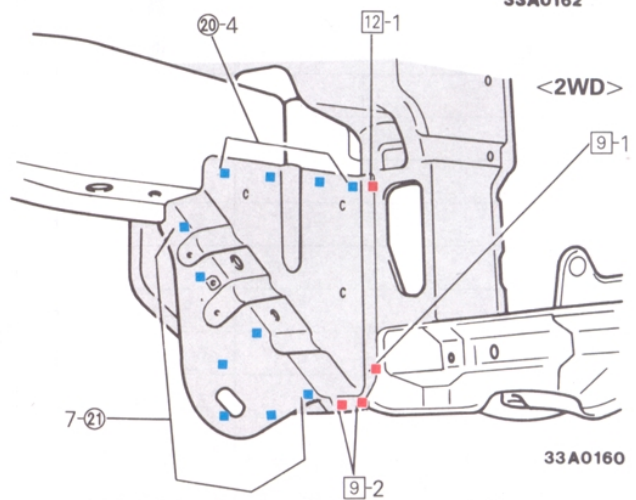
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33A0162

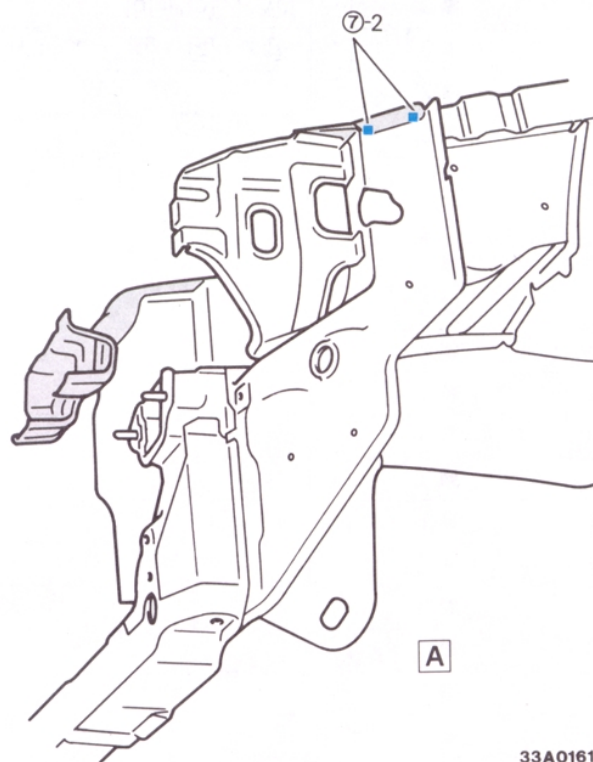
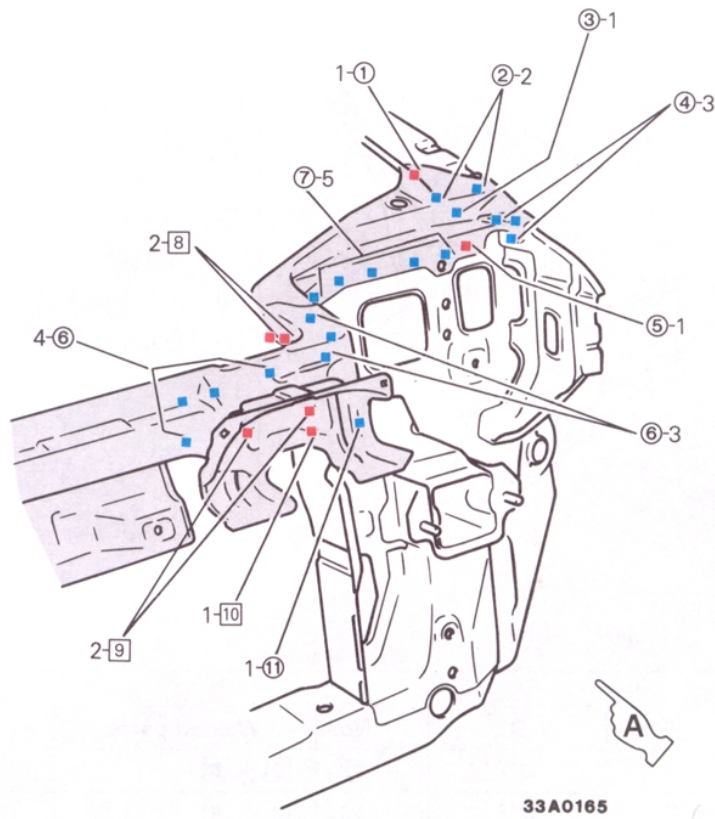


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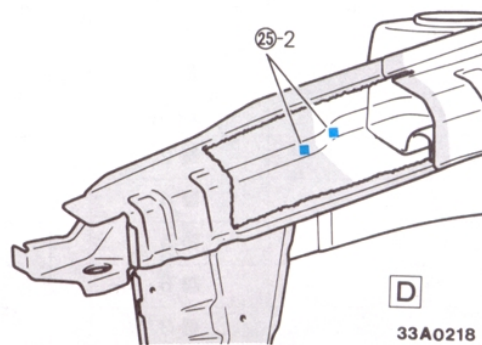
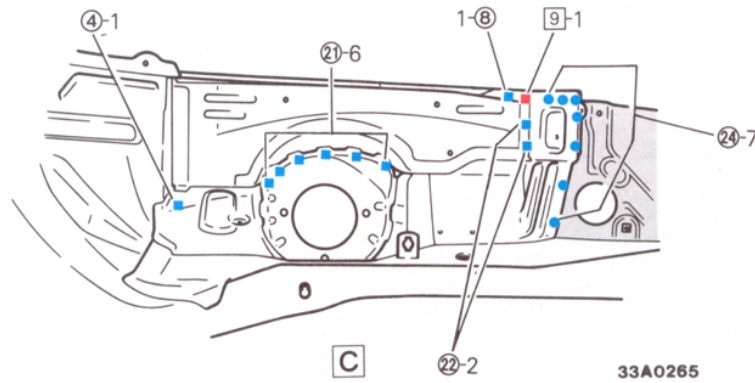
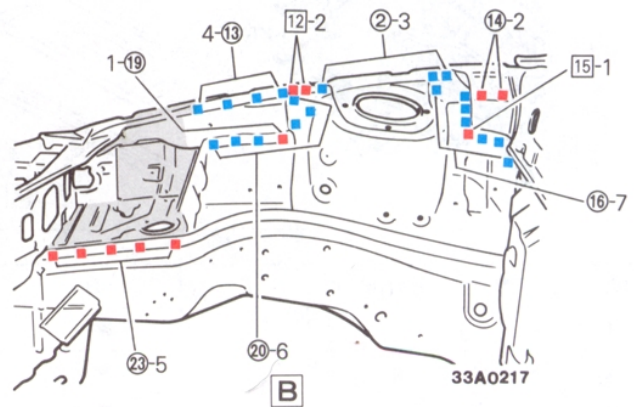
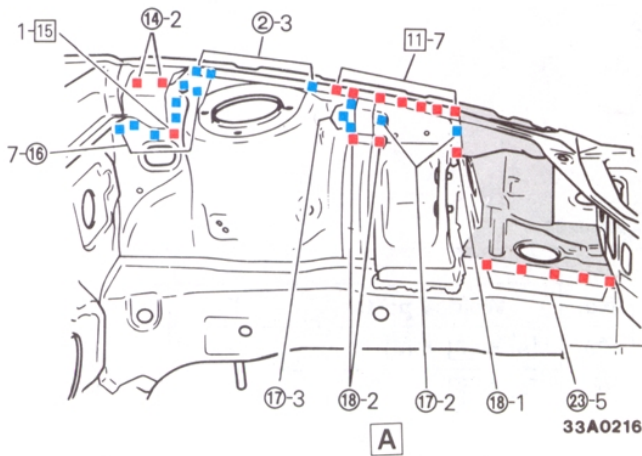
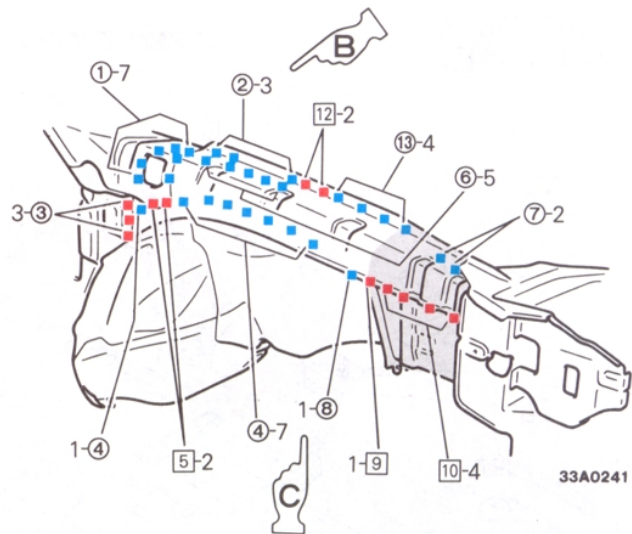
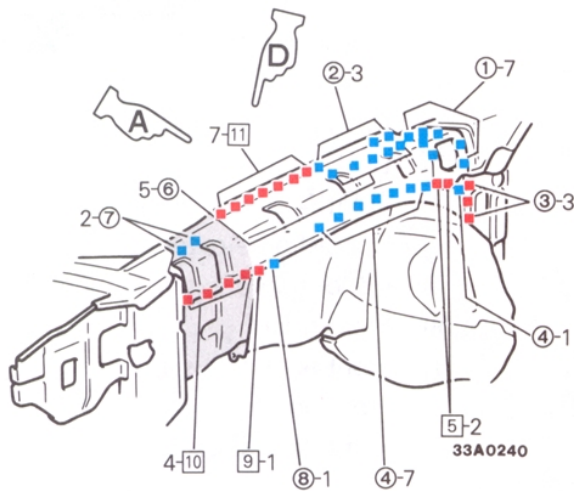


FRONT FENDER SHIELD		PART NAME
REPLACEMENT CONFIGURATION	CUT (A B C)	
		A Front upper frame, outer B Front upper frame, inner C Shield plate D Front fender shield E Front sidemember F Front upper frame extension, inner G Front upper frame extension, outer H Front pillar I Dash panel

33A0284

No.	Welded parts	F	R
①	A + G	7	■ 7
②	A + D	3	■ 3
③	A + H + I	3	■ 3
④	A + B	8	■ 8
⑤	A + B + G	2	■ 2
⑥	A + B	5	■ 5
⑦	A + B	2	■ 2
⑧	A + B	1	■ 1
⑨	A + B + D	1	■ 1
⑩	A + B + C	4	■ 4
⑪	A + B + D L.H.	7	■ 7
⑫	A + B + D R.H.	2	■ 2
⑬	A + B R.H.	4	■ 4
⑭	A + D + F	2	■ 2
⑮	B + D	1	■ 1
⑯	B + D	7	■ 7
⑰	B + D L.H.	5	■ 5
⑱	B + D L.H.	3	■ 3
⑲	B + D R.H.	1	■ 1
⑳	B + D R.H.	6	■ 6
㉑	B + D	6	■ 6

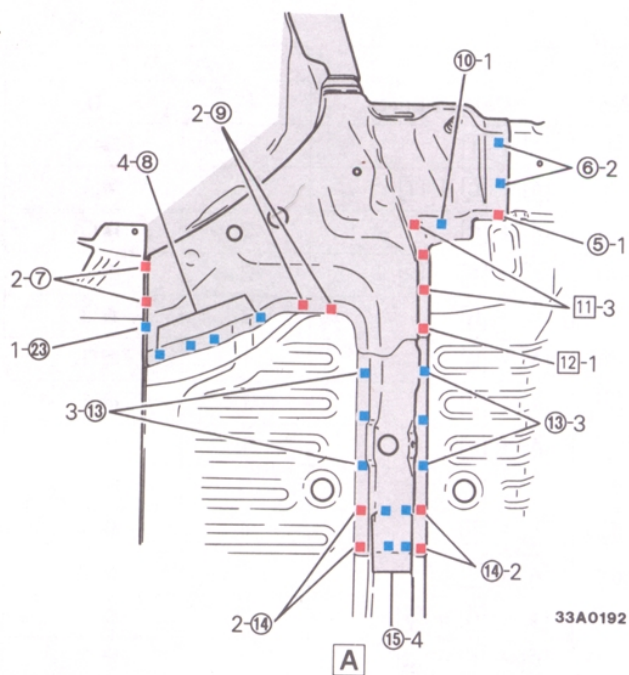
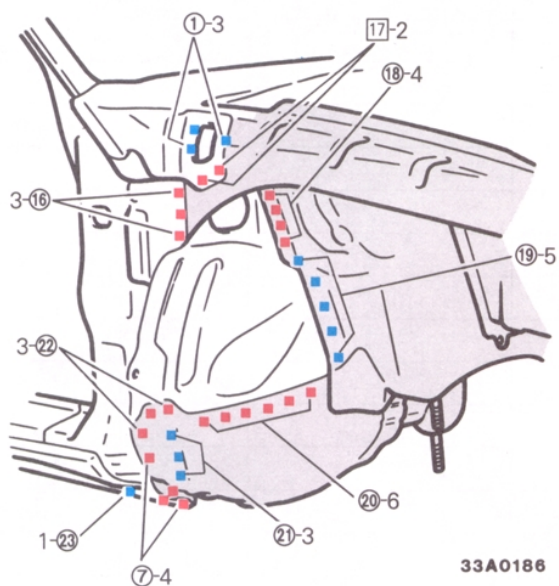
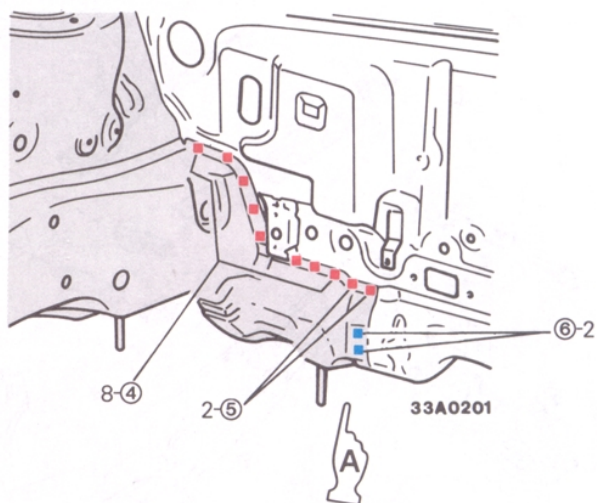
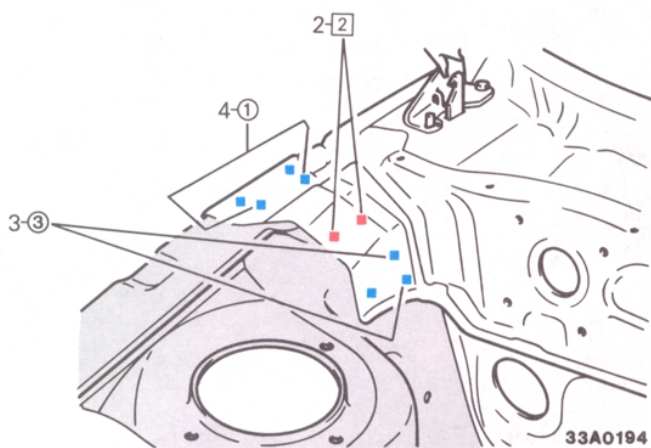
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FENDER SHIELD ASSEMBLY		PART NAME
REPLACEMENT CONFIGURATION	ASSEMBLY (A)	
		A Fender shield B Dash panel C Dash panel crossmember D Dash panel extension E Front floor side sill, inner, front F Upper frame extension, inner G Upper frame extension, outer H Front pillar I Front floor side sill, outer J Front floor pan K Front floor sidemember
33A0285		

No.	Welded parts	F	R
①	A + G	7	■ 7
②	A + F	2	■ 2
③	A + F	3	■ 3
④	A + B	8	■ 8
⑤	A + B + C	3	■ 3
⑥	A + C	4	■ 4
⑦	A + E + I	4	■ 4
⑧	A + D	4	■ 4
⑨	A + D + J	2	■ 2
⑩	A + B	1	■ 1
⑪	A + B	3	■ 3
⑫	A + J	1	■ 1
⑬	A + J	6	■ 6
⑭	A + J + K	4	■ 4
⑮	A + K	4	■ 4
⑯	A + B + H	3	■ 3
⑰	A + G	2	■ 2
⑱	A + B	4	■ 4
⑲	A + B	5	■ 5
⑳	A + B + D	6	■ 6
㉑	A + E	3	■ 3

[illegible]



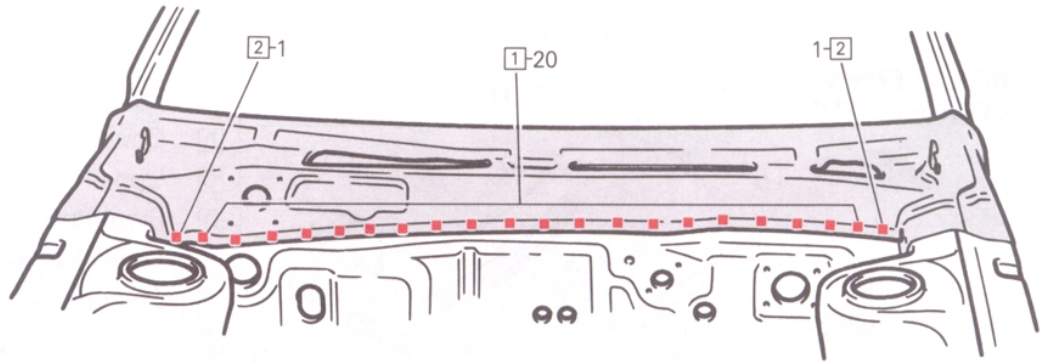
NOTE: Refer to P.3-4 for information concerning welding points with headlamp support.

FRONT DECK		PART NAME
REPLACEMENT CONFIGURATION	ASSEMBLY (A B C D E)	
The diagram shows an exploded view of the front deck assembly. Components are labeled as follows: A (Cowl top panel), B (Front deck crossmember), C (Upper frame inner extension), D (Upper frame outer extension), E (Upper frame silencer), F (Front upper frame, outer), G (Front upper frame, inner), H (Strut house panel), I (Dash panel), and J (Front pillar). The parts are arranged to show their relative positions and how they fit together.		A Cowl top panel B Front deck crossmember C Upper frame inner extension D Upper frame outer extension E Upper frame silencer F Front upper frame, outer G Front upper frame, inner H Strut house panel I Dash panel J Front pillar

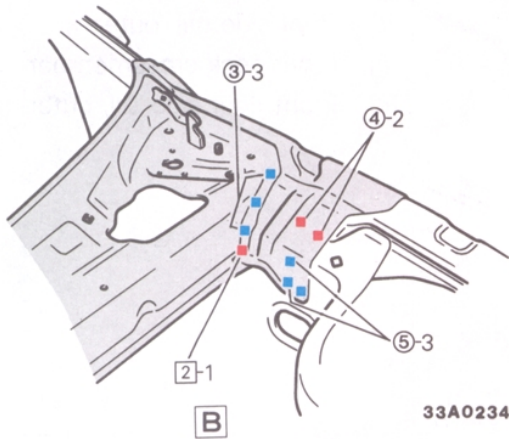
33A0282

No.	Welded parts	F	R
1	A + I	20	■ 20
2	A + C + I	1	■ 1
③	A + C	3	■ 3
④	C + F + H	2	■ 2
⑤	C + H	3	■ 3
⑥	A + D	1	■ 1
7	A + D	1	■ 1
8	A + J	1	■ 1
⑨	A + J	3	■ 3
⑩	A + D	4	■ 4
11	A + J	2	■ 2
12	A + D + J	2	■ 2
⑬	D + F + G	2	■ 2
14	D + F	7	■ 7
15	A + J	MIG arc	MIG arc
16	B + J	MIG arc	MIG arc
17	A + B	MIG arc	MIG arc
18	C + D	3	■ 3
19	A + C	4	■ 4
20	C + E	2	■ 2
21	D + E	2	■ 2

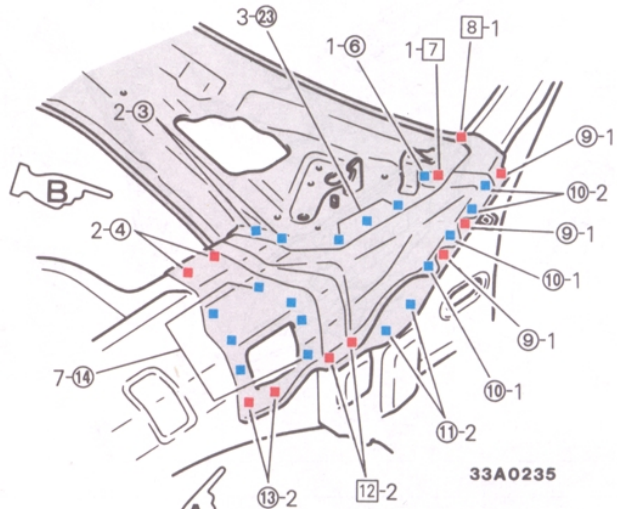
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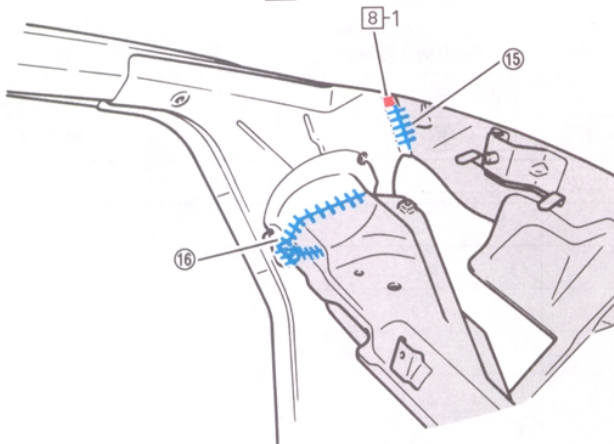
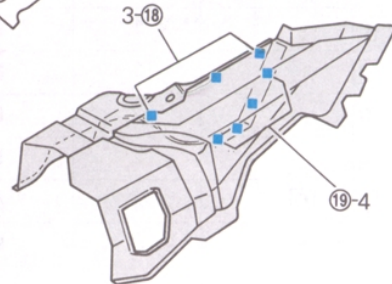
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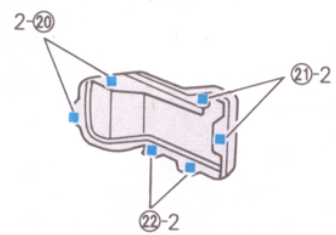
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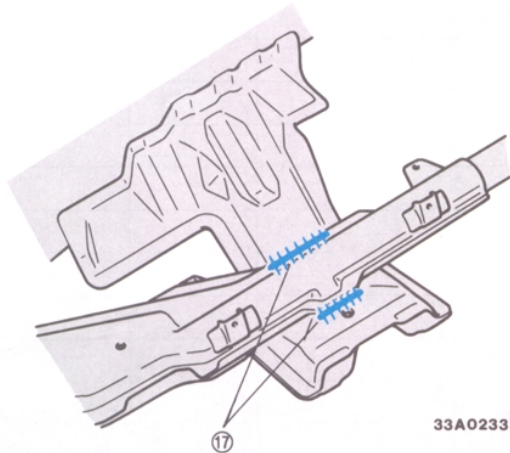
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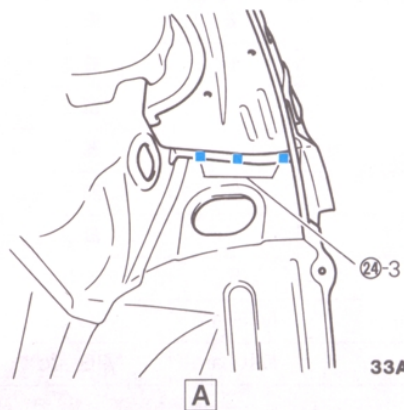
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33A0207



33A0233

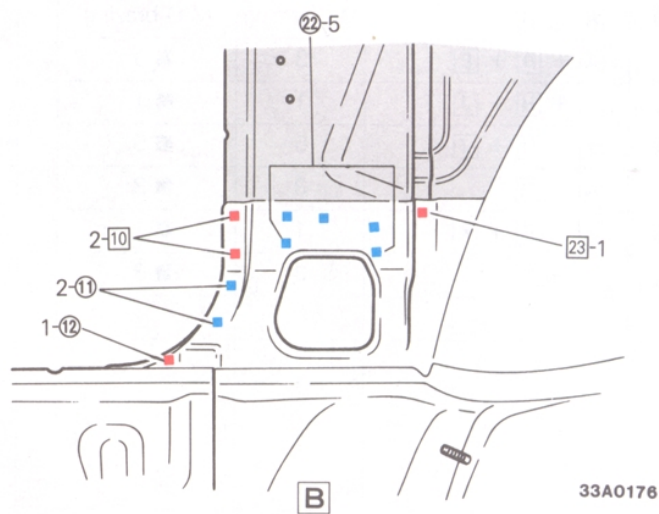
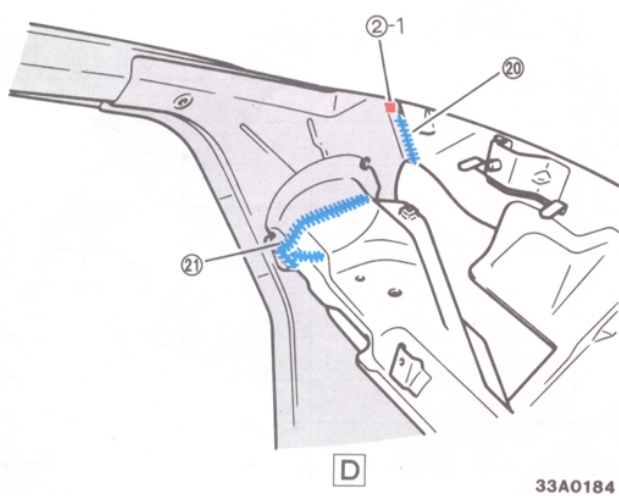
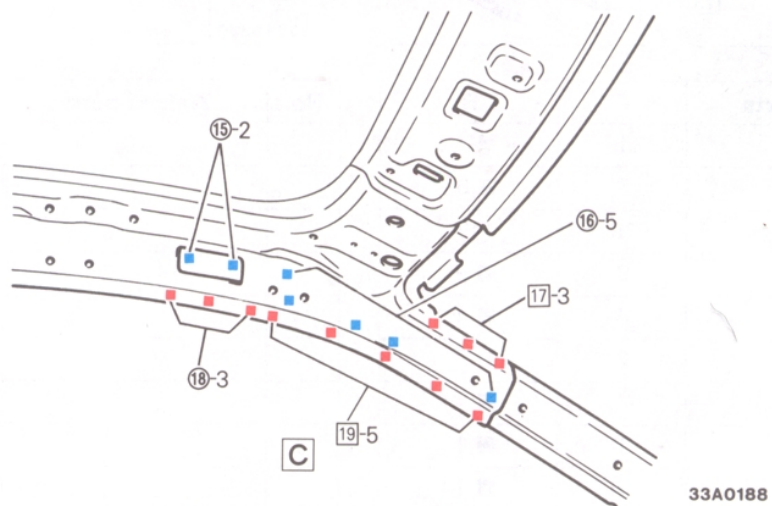
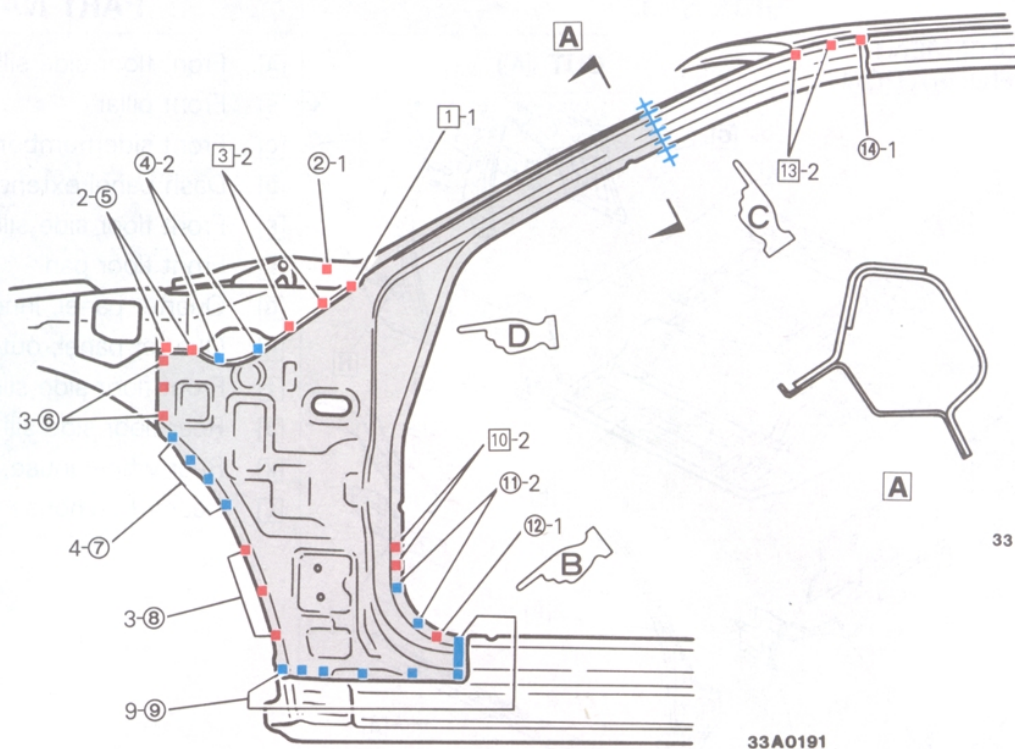


33A0231

FRONT PILLAR		PART NAME
REPLACEMENT CONFIGURATION	CUT (A)	
The diagram shows an exploded view of the front pillar assembly. Part A is the front pillar. Part B is the cowl top panel. Part C is the upper frame extension, outer. Part D is the front upper frame, outer. Part E is the front floor side sill, inner, front. Part F is the dash panel. Part G is the roof panel. Part H is the roof side rail, inner. Part I is the roof side rail, outer. Part J is the front deck crossmember. Part K is the front floor side sill, outer.		A Front pillar B Cowl top panel C Upper frame extension, outer D Front upper frame, outer E Front floor side sill, inner, front F Dash panel G Roof panel H Roof side rail, inner I Roof side rail, outer J Front deck crossmember K Front floor side sill, outer

No.	Welded parts	F	R
①	A + B	1	■ 1
②	A + B	1	■ 1
③	A + B	2	■ 2
④	A + B	2	■ 2
⑤	A + B + C	2	■ 2
⑥	A + D + F	3	■ 3
⑦	A + F	4	4
⑧	A + E + F	3	■ 3
⑨	A + K	9	■ 9
⑩	A + E	2	■ 2
⑪	A + E	2	■ 2
⑫	A + E + K	1	■ 1
⑬	A + G	2	■ 2
⑭	A + G + I	1	■ 1
⑮	A + I	2	■ 2
⑯	A + H	5	■ 5
⑰	A + H	3	■ 3
⑱	A + H + I	3	■ 3
⑲	A + H	5	■ 5
⑳	A + B	MIG arc	MIG arc
㉑	A + J	MIG arc	MIG arc

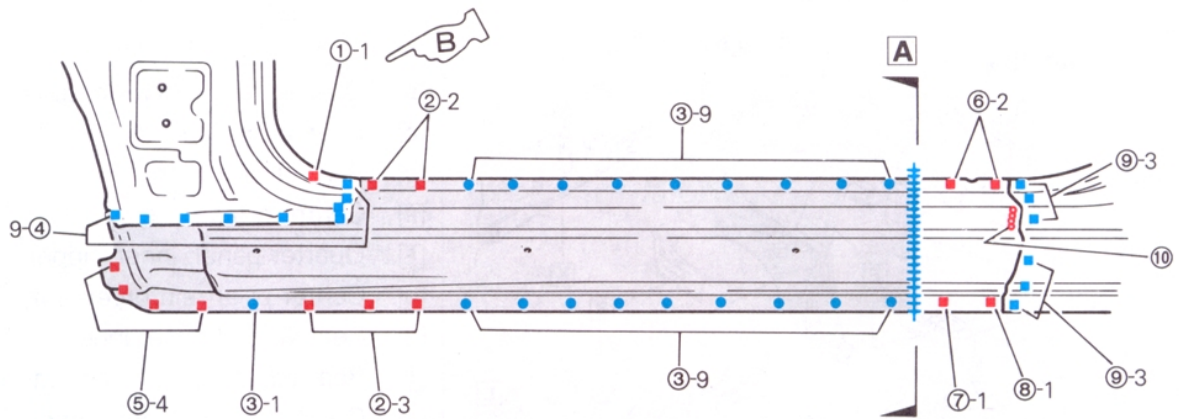
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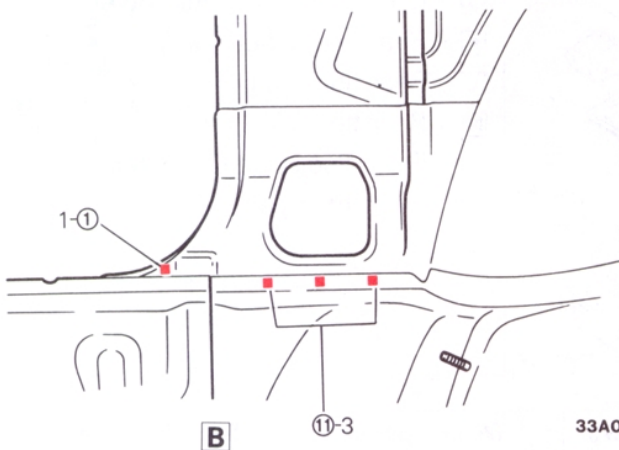
SIDE SILL		PART NAME
REPLACEMENT CONFIGURATION	CUT (A)	
The diagram shows an exploded view of the side sill assembly. Part A is the front floor side sill, outer. Part B is the front pillar. Part C is the front sidemember, rear. Part D is the dash panel extension. Part E is the front floor side sill, inner, front. Part F is the front floor pan. Part G is the quarter panel, inner, lower. Part H is the quarter panel, outer. Part I is the front floor side sill, inner. Part J is the rear floor side sill. Part K is the rear wheelhouse, inner. Part L is the rear wheelhouse extension, front.		A Front floor side sill, outer B Front pillar C Front sidemember, rear D Dash panel extension E Front floor side sill, inner, front F Front floor pan G Quarter panel, inner, lower H Quarter panel, outer I Front floor side sill, inner J Rear floor side sill K Rear wheelhouse, inner L Rear wheelhouse extension, front

No.	Welded parts	F	R
①	A + B + E	1	■ 1
②	A + E + I	5	■ 5
③	A + I	19	19
④	A + B	9	■ 9
⑤	A + C + I	4	■ 4
⑥	A + I + J	2	■ 2
⑦	A + F + I	1	■ 1
⑧	A + F + J	1	■ 1
⑨	A + H	14	■ 14
⑩	A + H	MIG brazing	MIG brazing
⑪	A + D + E	3	■ 3
⑫	A + H + J	1	■ 1
⑬	A + G + J	5	■ 5
⑭	A + G	3	■ 3
⑮	A + G + K	1	■ 1
⑯	A + L	3	■ 3

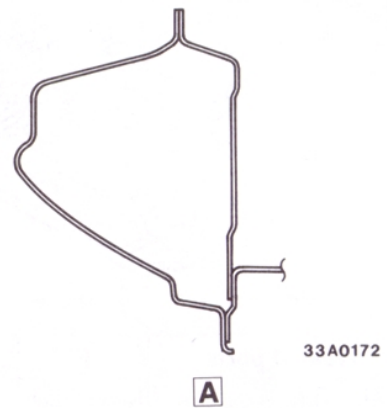
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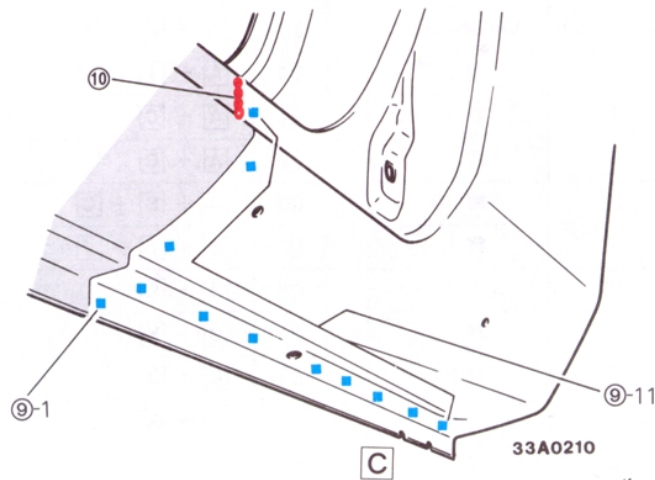
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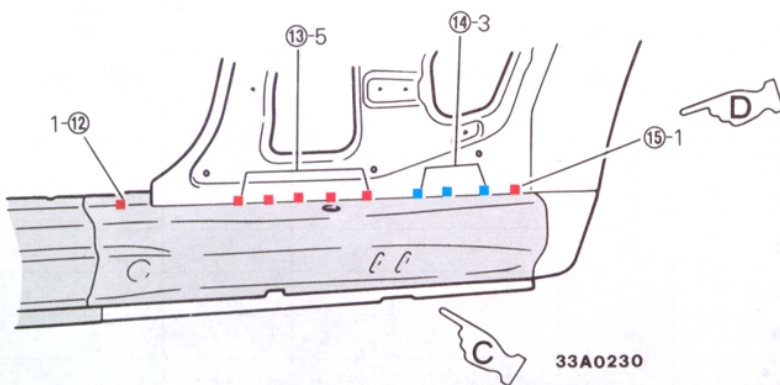
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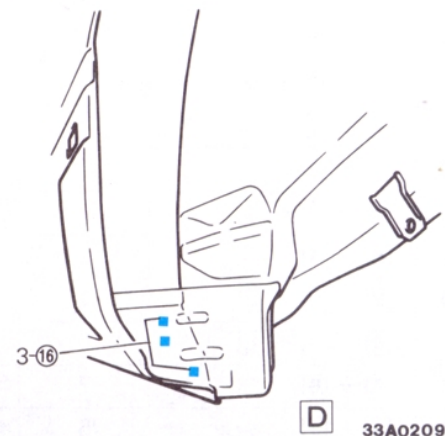
33A0172



33A0210



33A0230



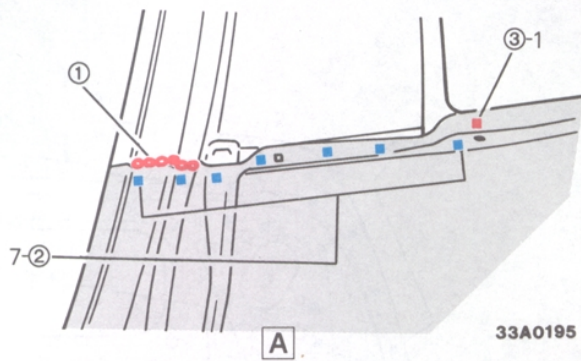
33A0209

QUARTER PANEL, OUTER		PART NAME
REPLACEMENT CONFIGURATION	ASSEMBLY (A B C)	
		A Quarter panel, outer B Quarter outer lower extension C Rear lamp housing D Rear pillar, outer E Center pillar, outer F Quarter panel, inner, upper G Center pillar reinforcement H Rear wheelhouse, inner I Rear wheelhouse front extension J Quarter panel, inner, lower K Rear end panel L Rear floor pan M Rear floor side sill N Front floor side sill, outer O Front floor pan

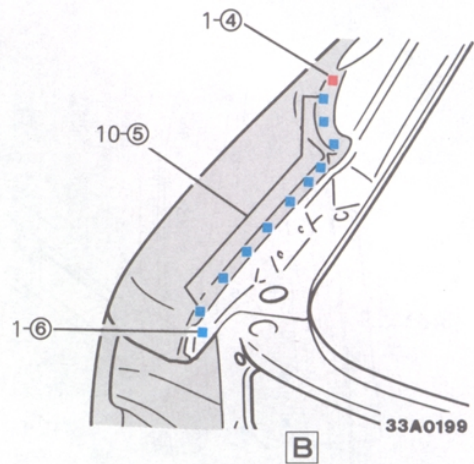
33A0287

No.	Welded parts	F	R
①	A + E	MIG brazing	MIG brazing
②	A + E	7	■ 7
③	A + E + F	1	■ 1
④	A + D + F	1	■ 1
⑤	A + D	10	■ 10
⑥	C + D	1	■ 1
⑦	A + F	10	10
⑧	A + J L.H.	4	■ 4
⑨	A + G + J	6	■ 6
⑩	A + J	4	4
⑪	A + M + N	1	■ 1
⑫	A + N	14	■ 14
⑬	A + M + O	4	■ 4
⑭	A + M	10	10
⑮	A + J	—	8 MIG spot
⑯	A + B + J	1	■ 1
⑰	B + J	2	■ 2
⑱	B + H + J	1	■ 1
⑲	B + J + L	5	■ 5
⑳	A + B	7	■ 7
㉑	A + J	5	5

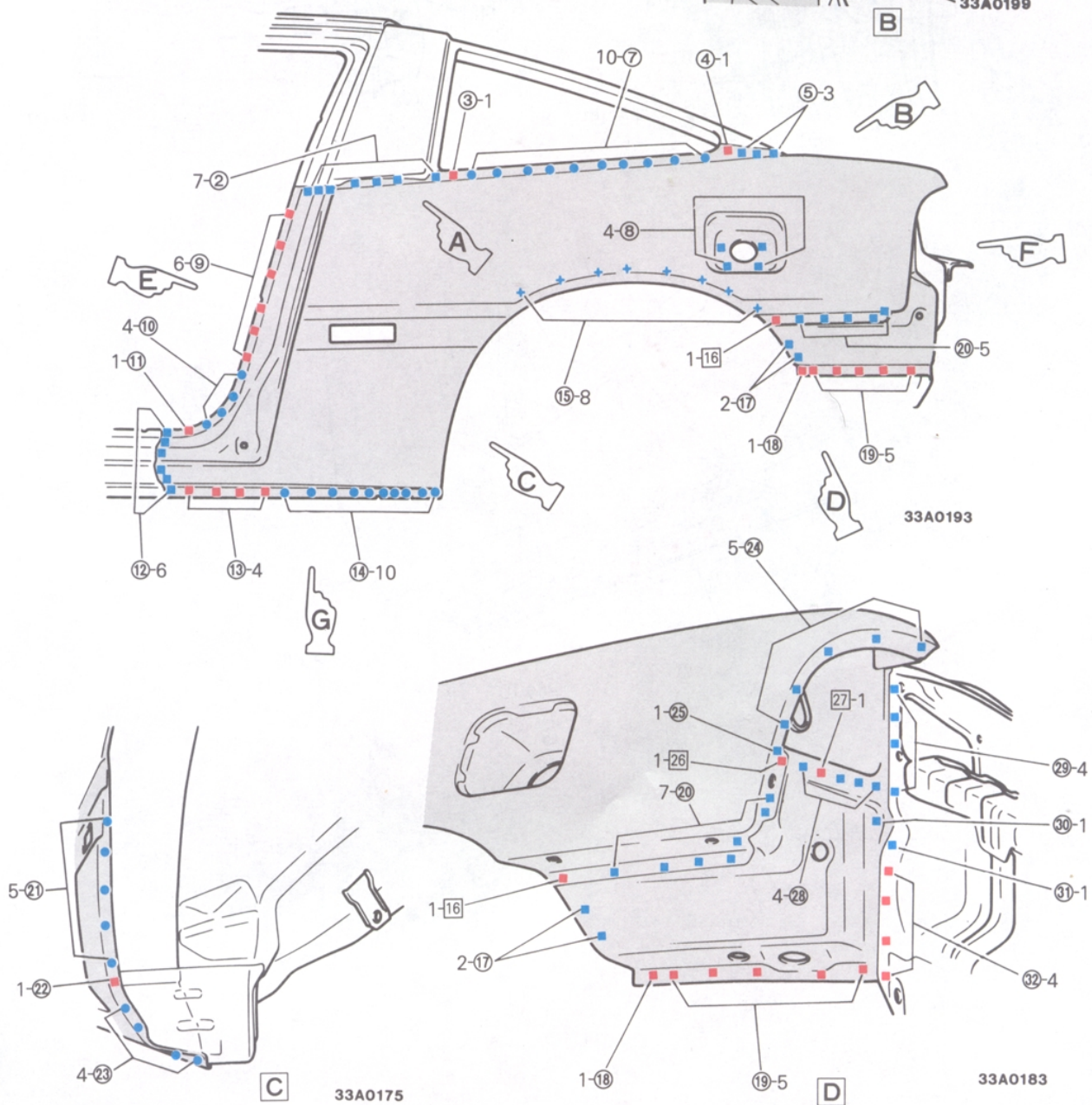
[illegible]



33A0195

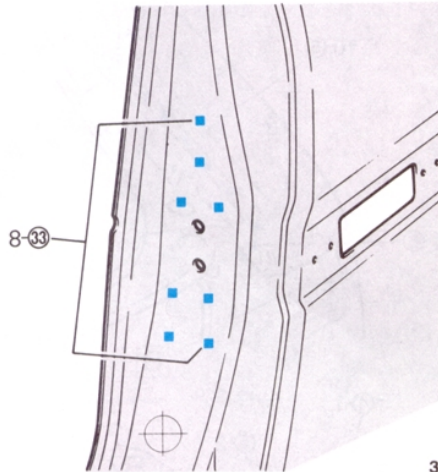


33A0199



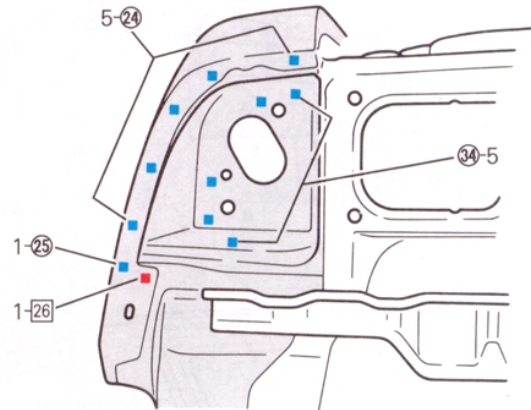
33A0175

33A0183



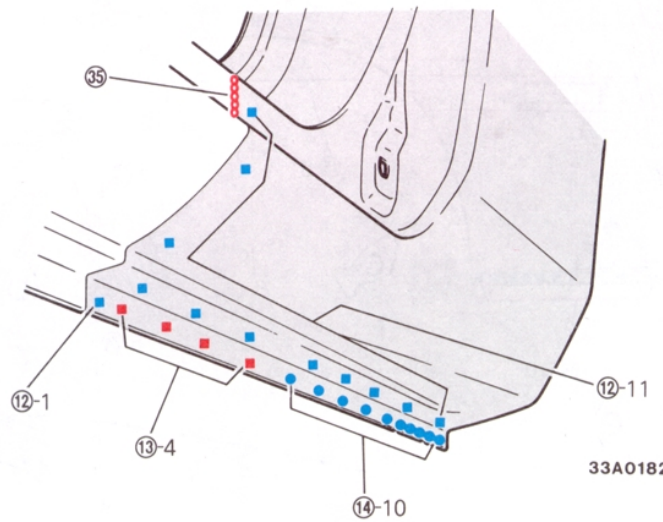
33A0181

E



33A0177

F



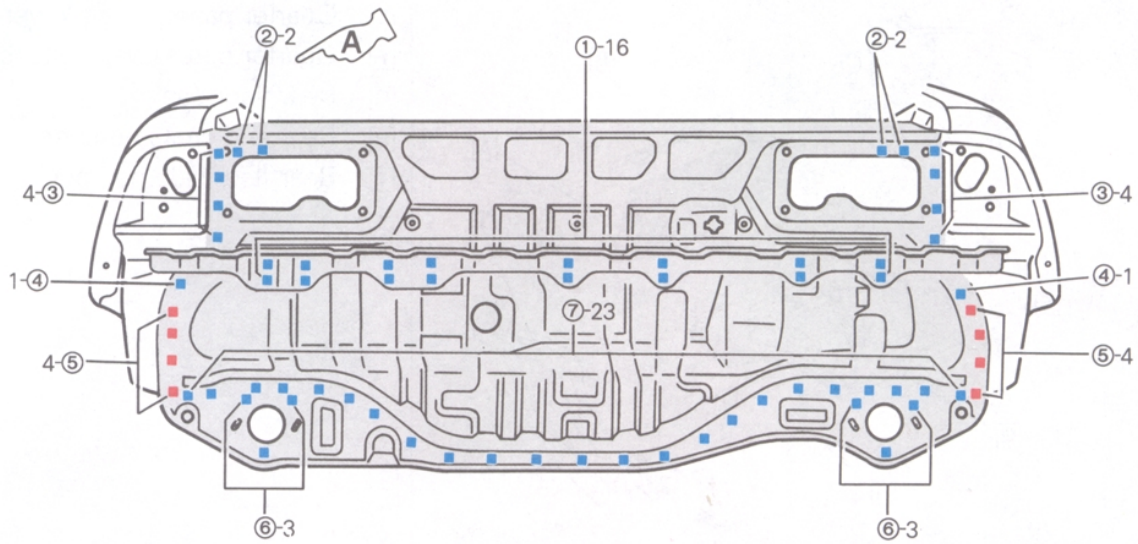
33A0182

G

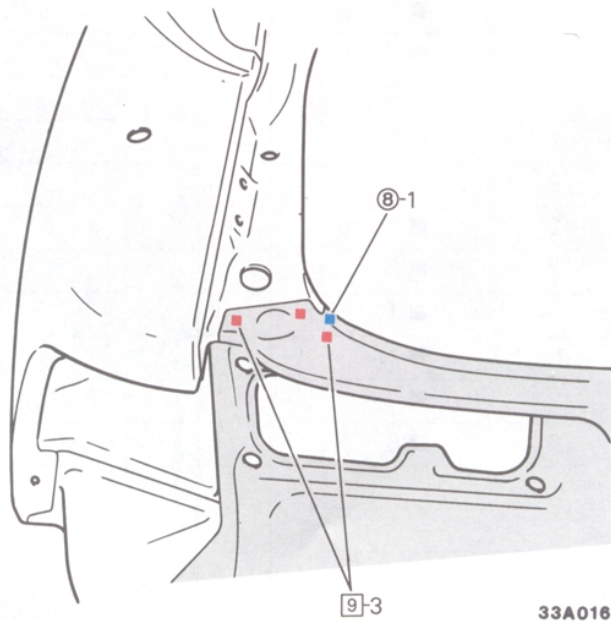
NOTES

33A0274

[illegible]



33A0157

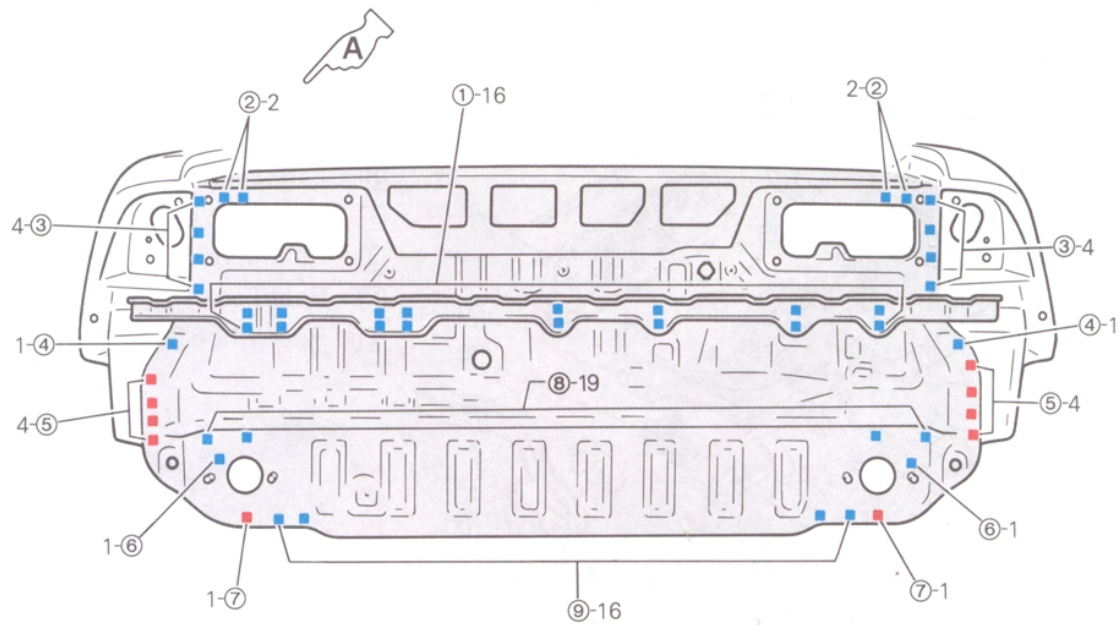


33A0164

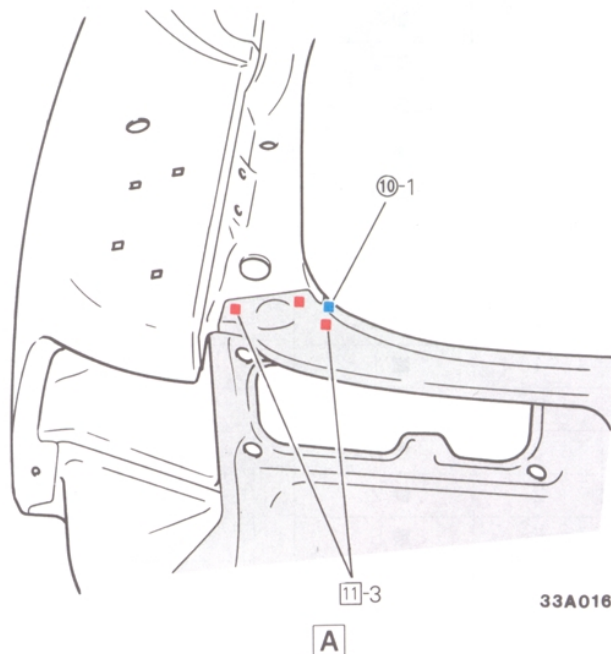
A

33A0419

[illegible]



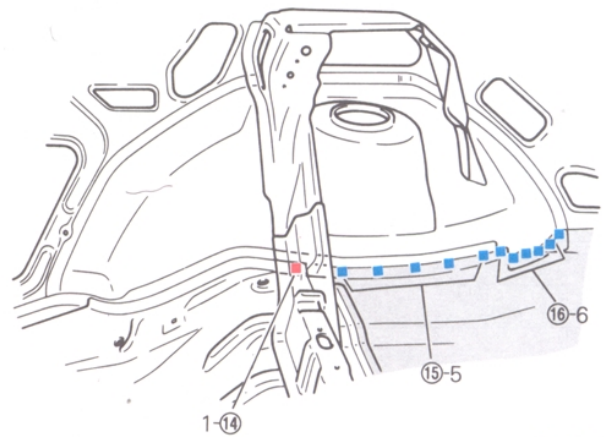
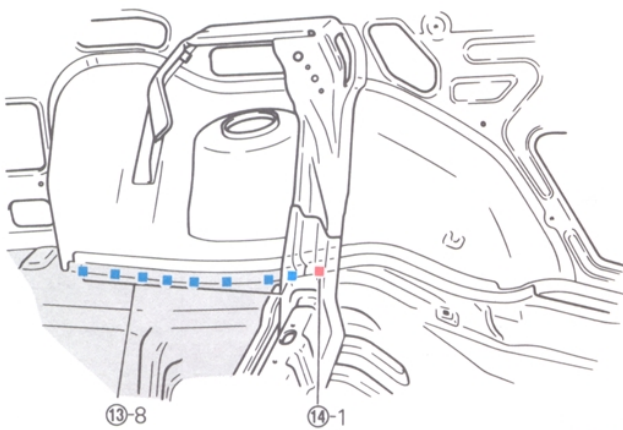
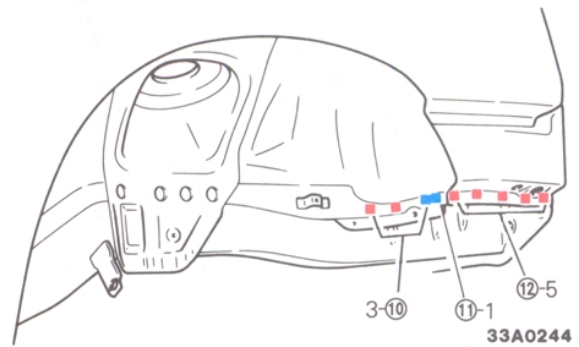
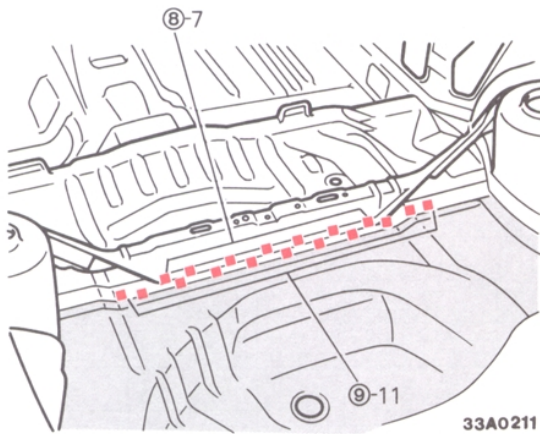
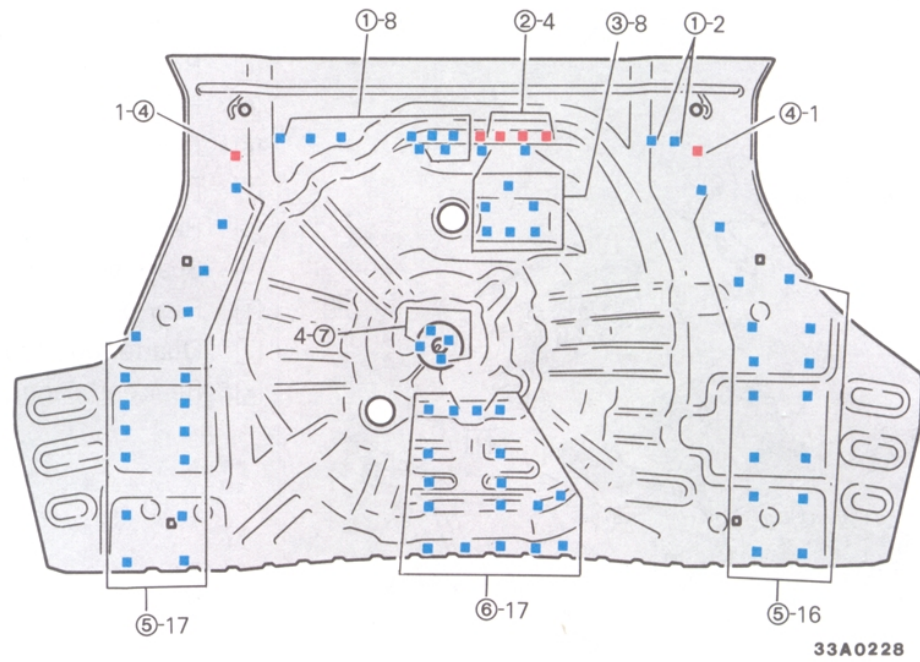
33A0386



33A0164

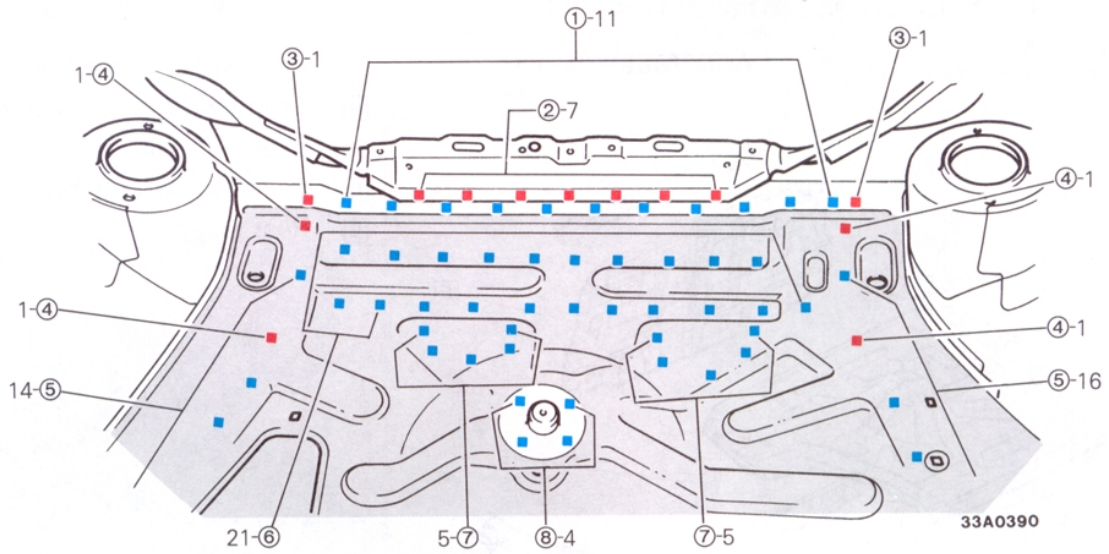
33A0274

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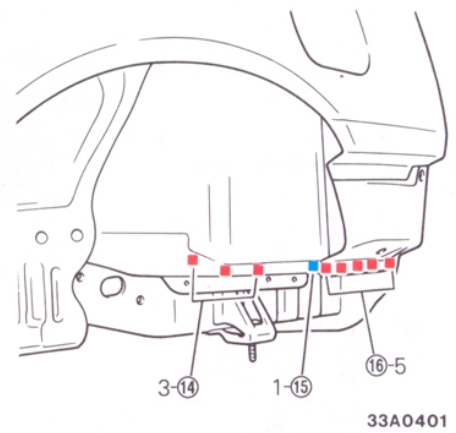
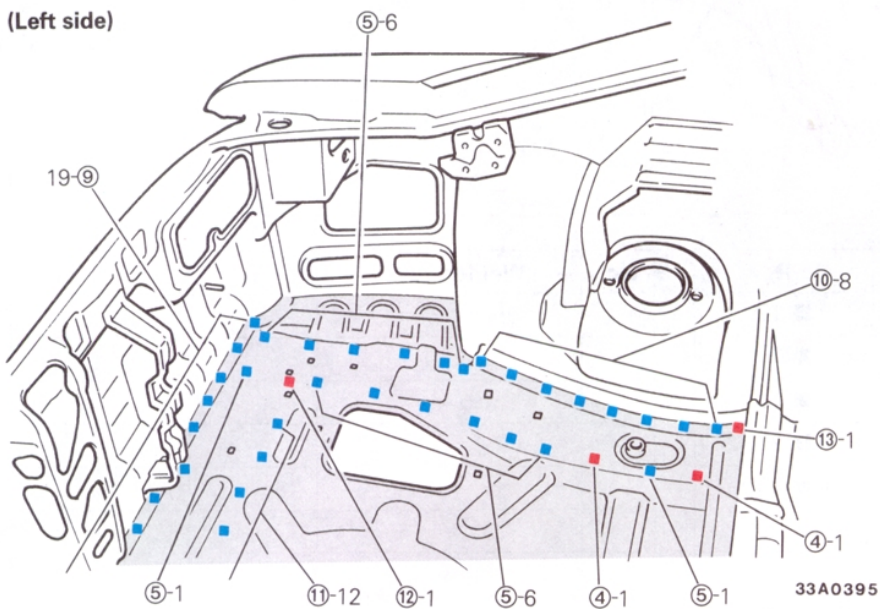


33A0419

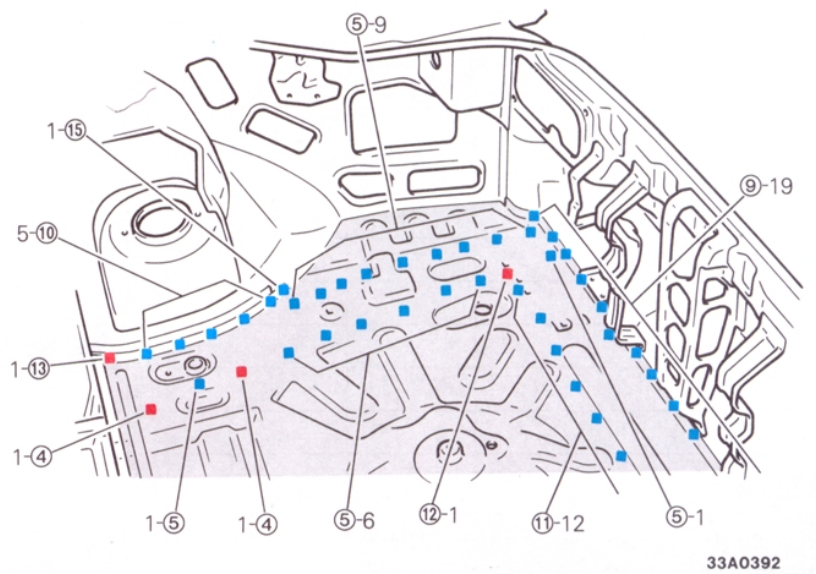
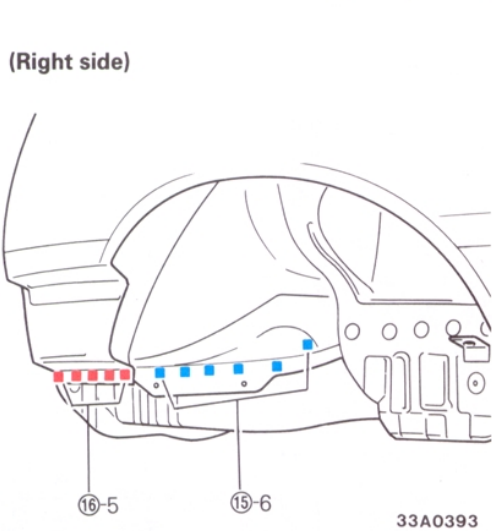
[illegible]



(Left side)

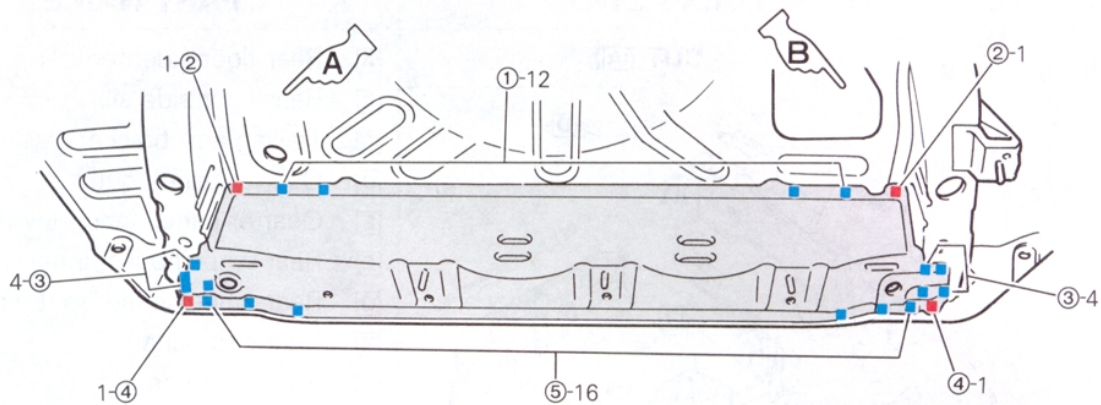


(Right side)

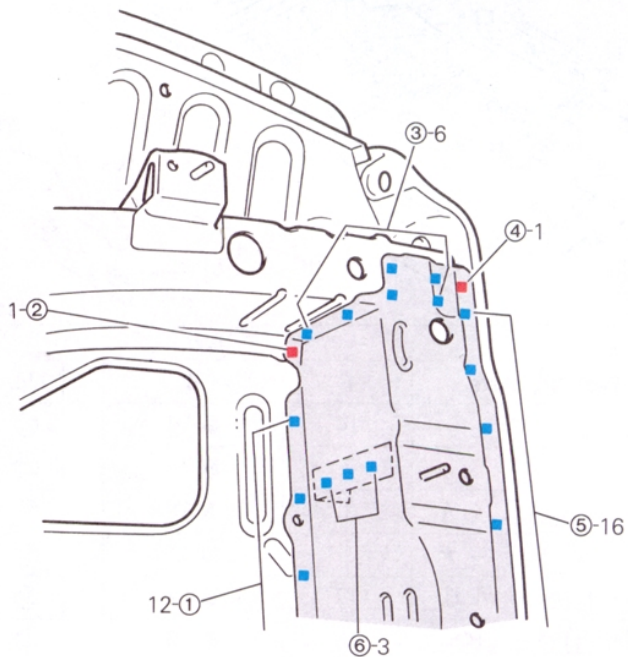


REAR END CROSSMEMBER <4WD>		PART NAME
REPLACEMENT CONFIGURATION	ASSEMBLY (A) (B)	(A) Rear end crossmember (B) Child restraint reinforcement (C) Rear floor pan (D) Rear floor sidemember (E) Rear end panel
33A0418		

[illegible][illegible]



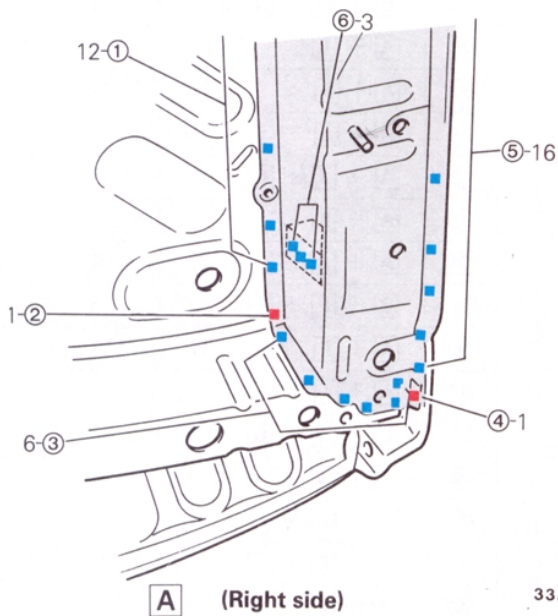
33A0396



33A0383

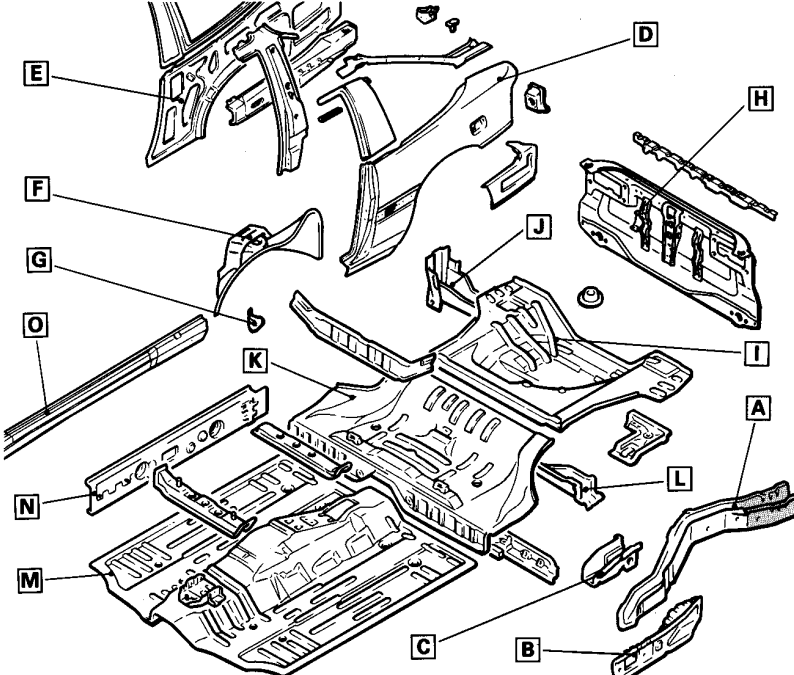
(Left side)

B



A (Right side)

33A0399

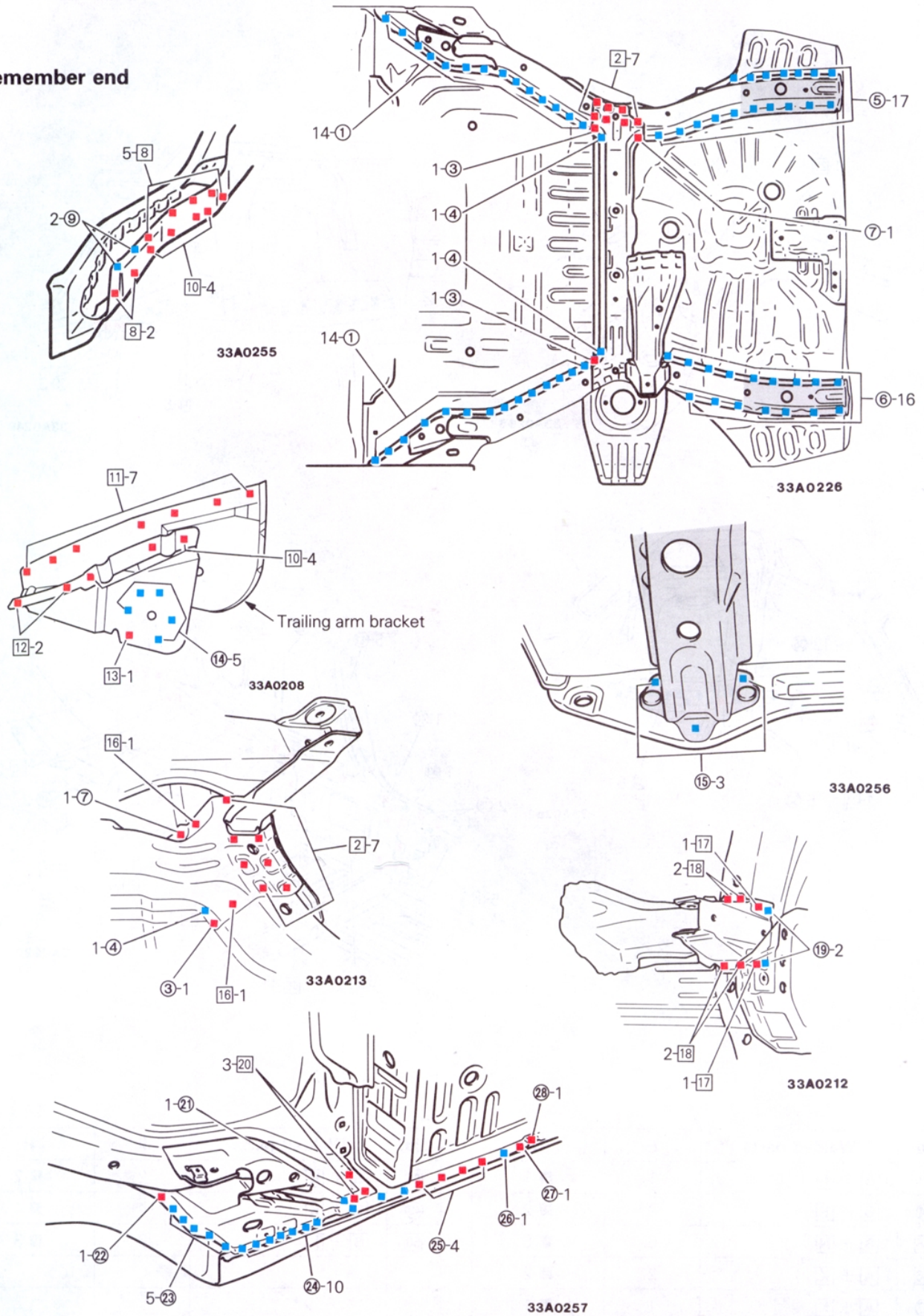
REAR FLOOR SIDEMEMBER <2WD>		PART NAME
REPLACEMENT CONFIGURATION	CUT (A)	
		A Rear floor sidemember B Rear floor side sill C Trailing arm bracket D Quarter panel, outer E Quarter panel, inner, lower F Rear wheelhouse, inner G Rear wheelhouse front extension H Rear end panel I Rear floor pan J Lateral rod bracket K Rear seat pan L Rear floor crossmember, lower M Front floor pan N Front floor side sill, inner O Front floor side sill, outer

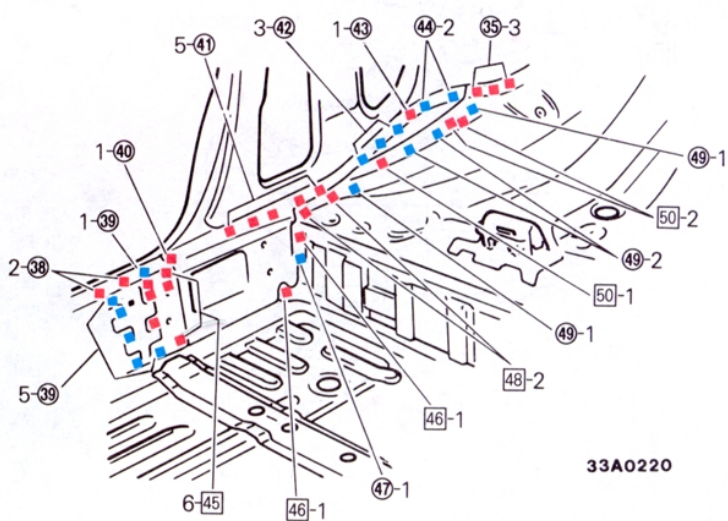
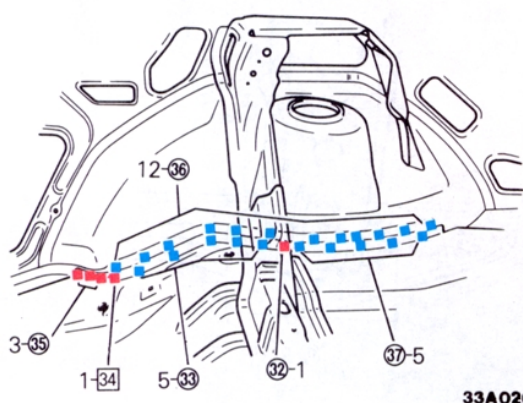
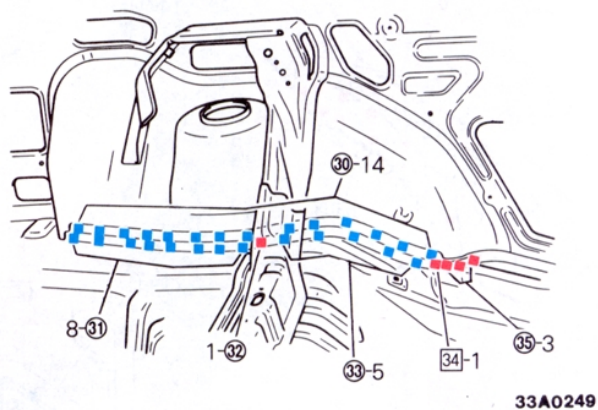
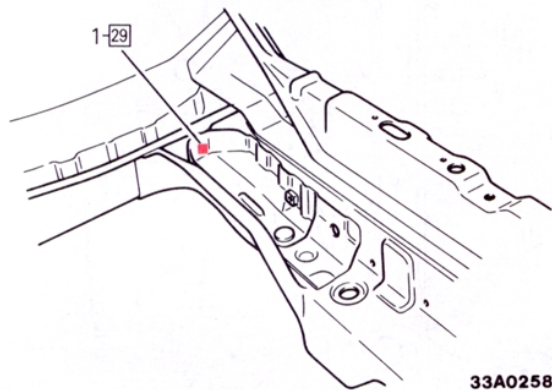
33A0275

No.	Welded parts	F	R
①	A + K	14	■ 14
②	A + L	7	■ 7
③	A + K + L ★	1	■ 1
④	A + L ★	1	■ 1
⑤	A + I L.H.	17	■ 17
⑥	A + I R.H.	16	■ 16
⑦	A + I + L ★	1	■ 1
⑧	A + B	7	■ 7
⑨	A + B	2	■ 2
⑩	A + B + C ★	4	■ 4
⑪	A + C ★	7	■ 7
⑫	A + C ★	2	■ 2
⑬	B + C ★	1	■ 1
⑭	B + C ★	5	■ 5
⑮	A + H	3	■ 3
⑯	A + L ★	2	■ 2
⑰	A + J R.H. ★	2	■ 2
⑱	A + J R.H. ★	4	■ 4
⑲	A + J R.H. ★	2	■ 2
⑳	A + B	3	■ 3
㉑	A + B	1	■ 1

No.	Welded parts	F	R
㉒	B + F + G	1	■ 1
㉓	B + G	5	■ 5
㉔	B + D	10	■ 10
㉕	B + D + M	4	■ 4
㉖	B + M	1	■ 1
㉗	B + M + O	1	■ 1
㉘	B + M + N	1	■ 1
㉙	A + L	1	■ 1
㉚	A + F L.H.	14	■ 14
㉛	A + I L.H.	8	■ 8
㉜	A + I + K	1	■ 1
㉝	A + K	5	■ 5
㉞	A + B + K	1	■ 1
㉟	B + F + K	3	■ 3
㊱	A + F R.H.	12	■ 12
㊲	A + I R.H.	5	■ 5
㊳	B + N + O	2	■ 2
㊴	B + N	6	■ 6
㊵	B + D + O	1	■ 1
㊶	B + E + O	5	■ 5
㊷	B + E	3	■ 3

Sidemember end

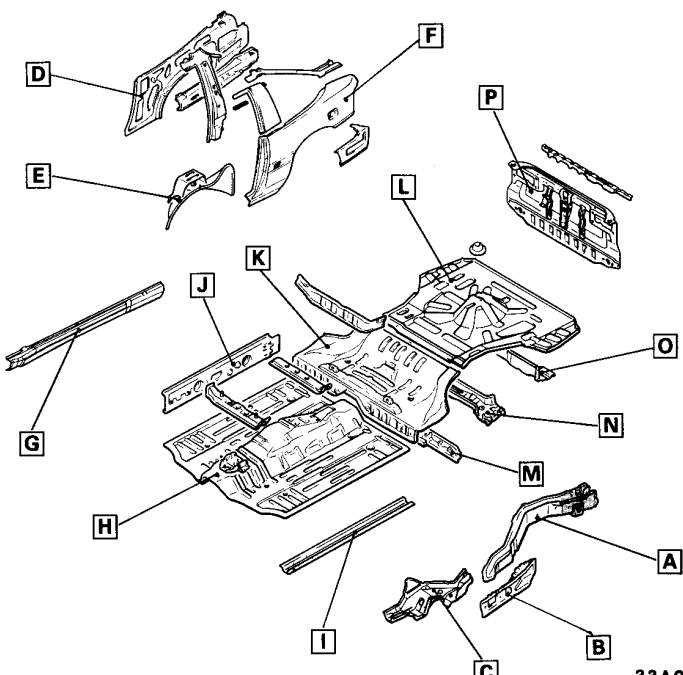




No.	Welded parts	F	R
④③	[B] + [F] + [E]	1	■ 1
④④	[B] + [F]	2	■ 2
④⑤	[B] + [N]	6	■ 6
④⑥	[A] + [K]	2	■ 2
④⑦	[A] + [K]	1	■ 1

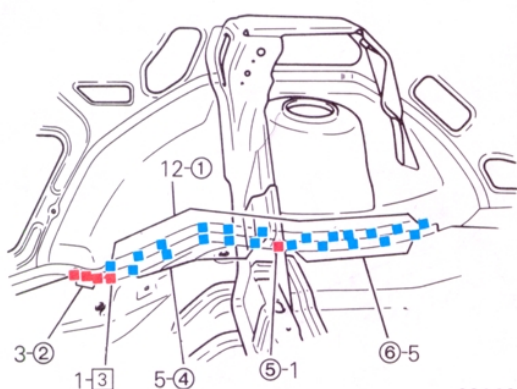
No.	Welded parts	F	R
④⑧	[B] + [K]	2	■ 2
④⑨	[B] + [K]	4	■ 4
⑤⑩	[B] + [K]	3	■ 3

NOTES

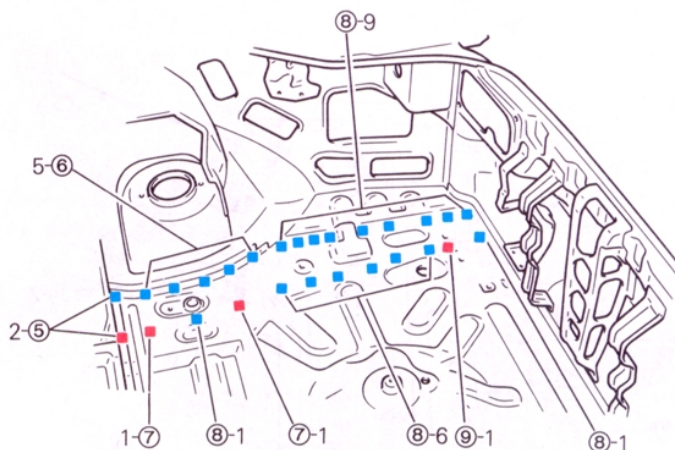
REAR FLOOR SIDEMEMBER <4WD>		PART NAME
REPLACEMENT CONFIGURATION	—	
		A Rear floor sidemember B Rear floor side sill C Rear floor sidemember front extension D Quarter panel, inner, lower E Rear wheelhouse, inner F Quarter panel, outer G Front floor side sill, outer H Front floor pan I Front floor sidemember J Front floor side sill, inner K Rear seat pan L Rear floor pan M Rear seat crossmember N Rear floor crossmember, lower O Rear end crossmember P Rear end panel
		33A0420

No.	Welded parts	F	R
①	Left side A + E	14	■ 14
	Right side	12	■ 12
②	B + E + K	3	■ 3
③	A + B + K	1	■ 1
④	A + K	5	■ 5
⑤	Left side A + L	8	■ 8
	Right side	5	■ 5
⑦	A + L + N	2	■ 2
⑧	Left side A + L	14	■ 14
	Right side	17	■ 17
⑨	A + L + P	1	■ 1
⑩	B + E	2	■ 2
⑪	B + D + E	1	■ 1
⑫	B + D	3	■ 3
⑬	B + D + G	5	■ 5
⑭	B + F + G	1	■ 1
⑮	B + J	6	■ 6
⑯	B + G + J	2	■ 2
⑰	B + J	6	■ 6
⑱	B + K	5	■ 5

No.	Welded parts	F	R
⑲	B + K	4	■ 4
⑳	B + K	3	■ 3
㉑	B + E	5	■ 5
㉒	B + E	1	■ 1
㉓	Left side A + N	7	■ 7
	Right side	4	■ 4
㉔	A + N	3	■ 3
㉕	A + O	7	■ 7
㉖	A + O + P	1	■ 1
㉗	C + H + I	4	■ 4
㉘	C + H + K	2	■ 2
㉙	C + M	8	■ 8
㉚	C + K + M	4	■ 4
㉛	C + K	5	■ 5
㉜	A + C	5	■ 5
㉝	A + C + K	3	■ 3
㉞	A + M	4	■ 4
㉟	B + H + J	1	■ 1
㊱	B + G + H	1	■ 1
㊲	B + H	1	■ 1
㊳	B + F + H	4	■ 4

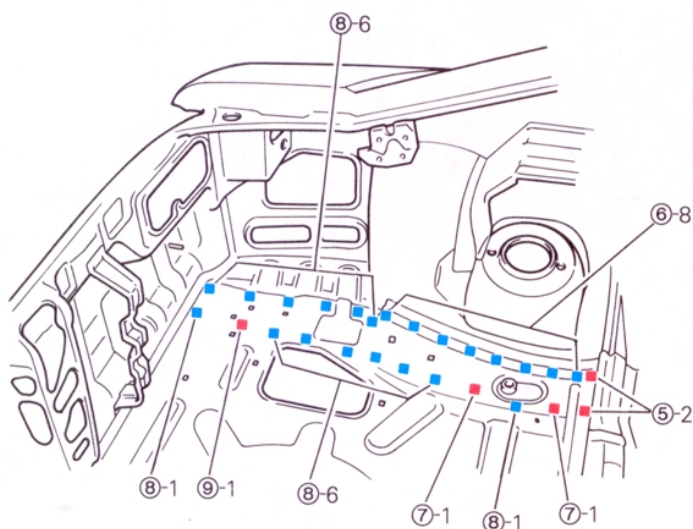


33A0262

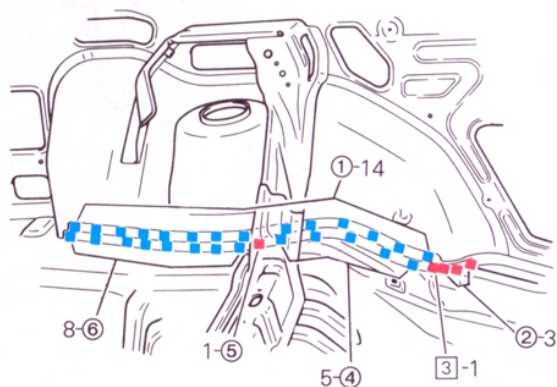


33A0391

(Right Side)



33A0394



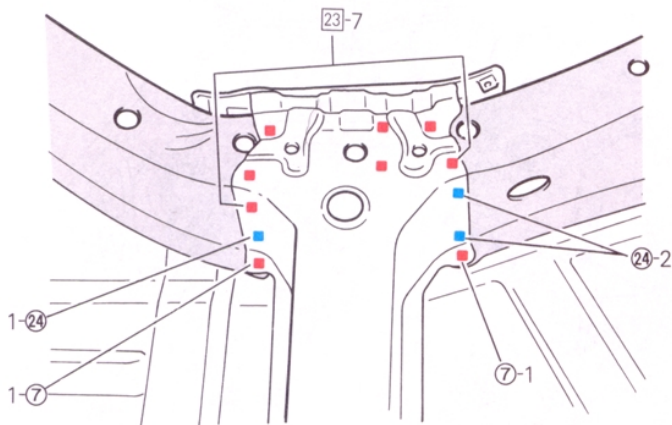
33A0249

(Left Side)

No.	Welded parts	F	R
③⑨	[B] + [F] + [M]	1	■ 1
④⑩	[A] + [B] + [F]	2	■ 2
④⑪	[A] + [B]	1	■ 1

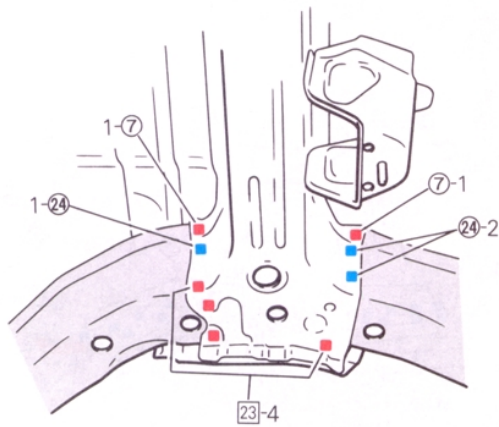
No.	Welded parts	F	R
④⑫	[B] + [F]	7	■ 7
④⑬	[B] + [M]	2	■ 2
④⑭	[A] + [B] + [C]	4	■ 4

(Left side)



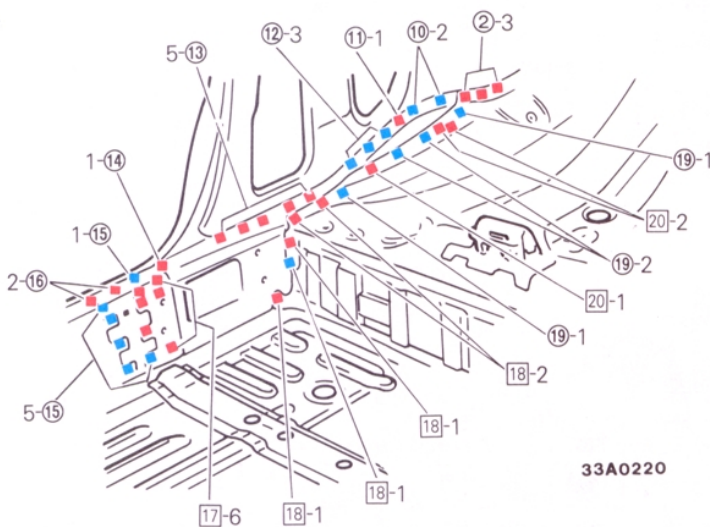
33A0379

(← Front)



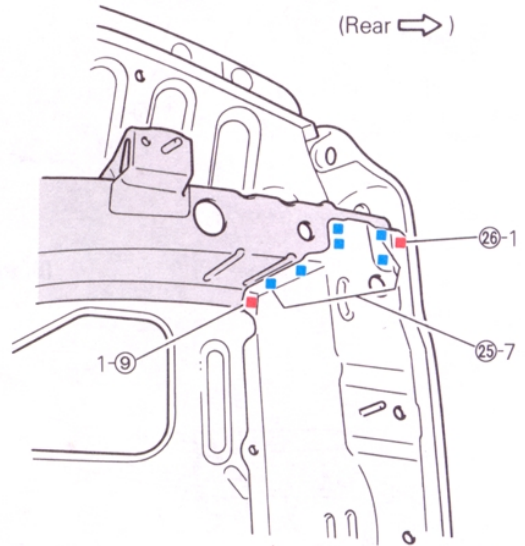
33A0384

(Right side)



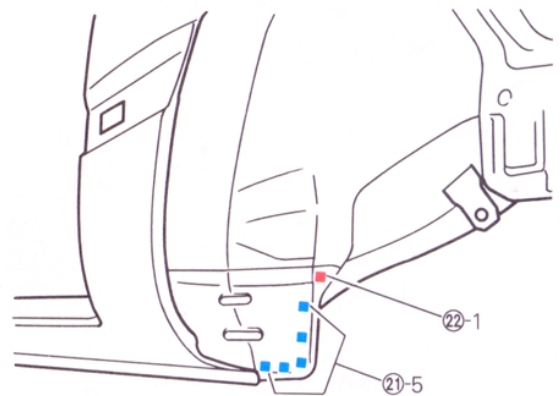
33A0220

(Rear →)

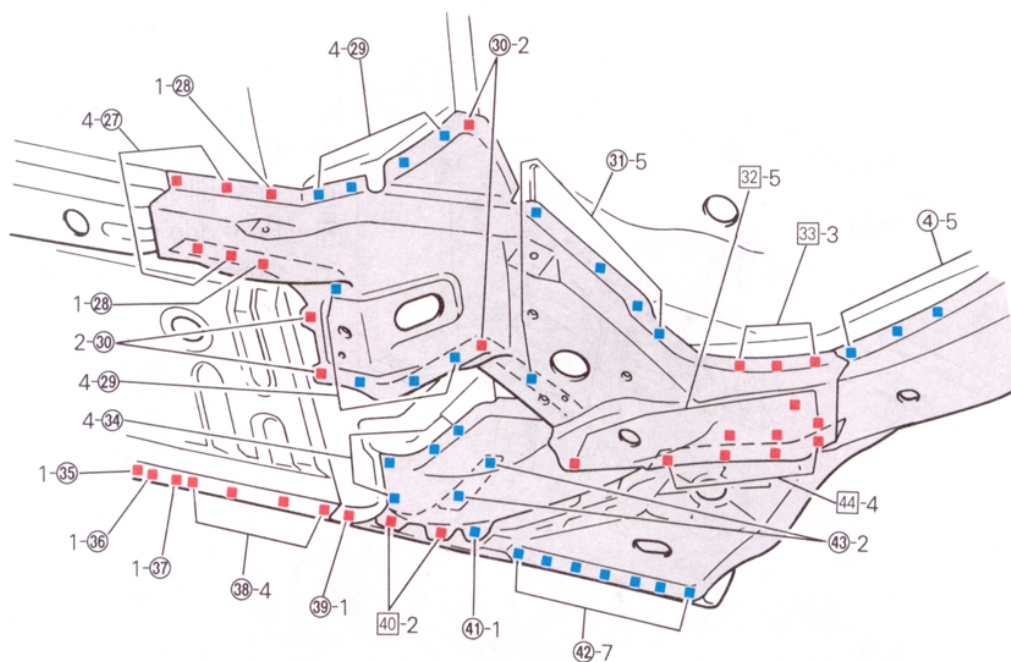


33A0382

(Left side)



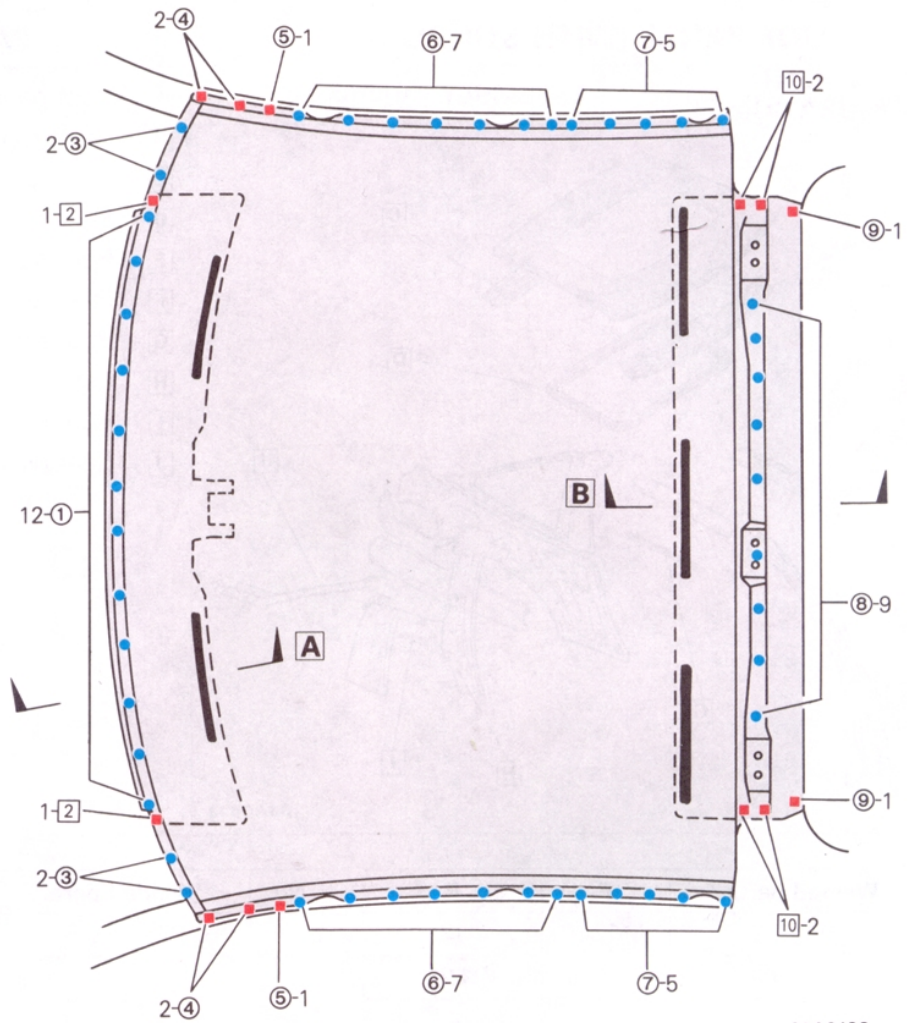
33A0409



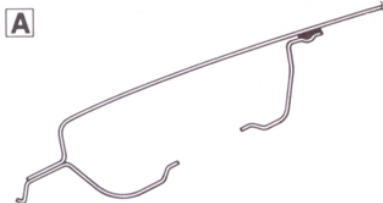
33A0402

33A0283

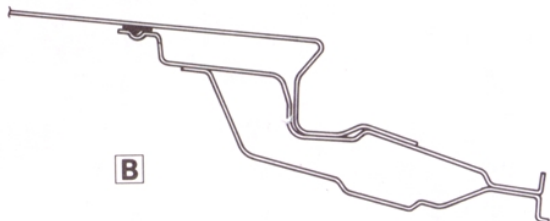
[illegible]



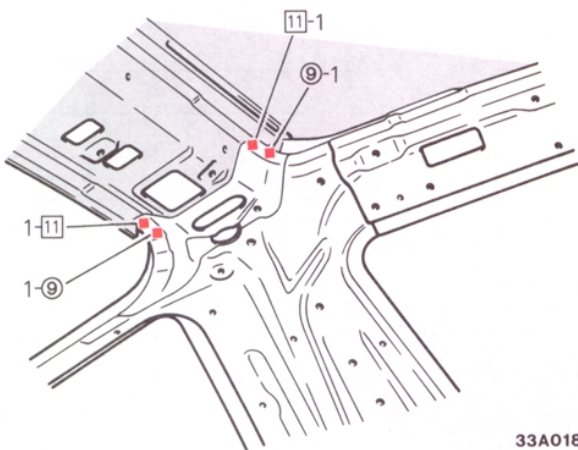
33A0196



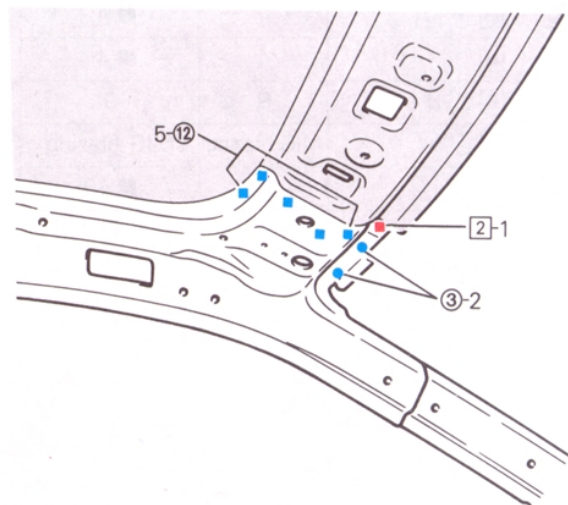
33A0198



33A0197



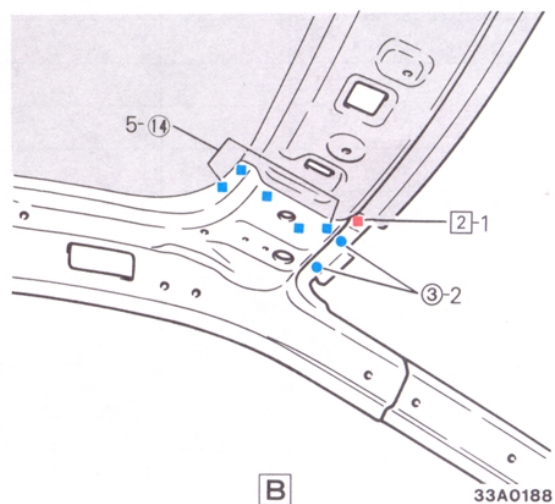
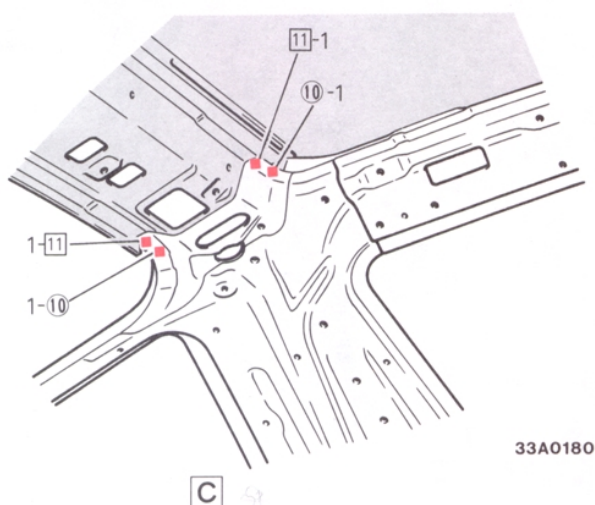
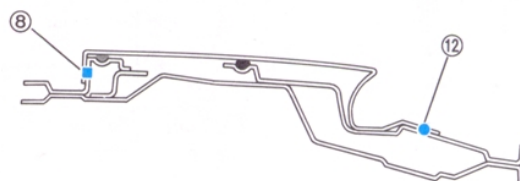
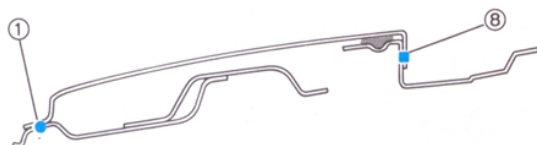
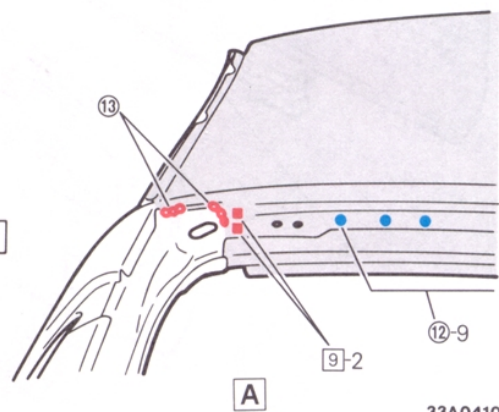
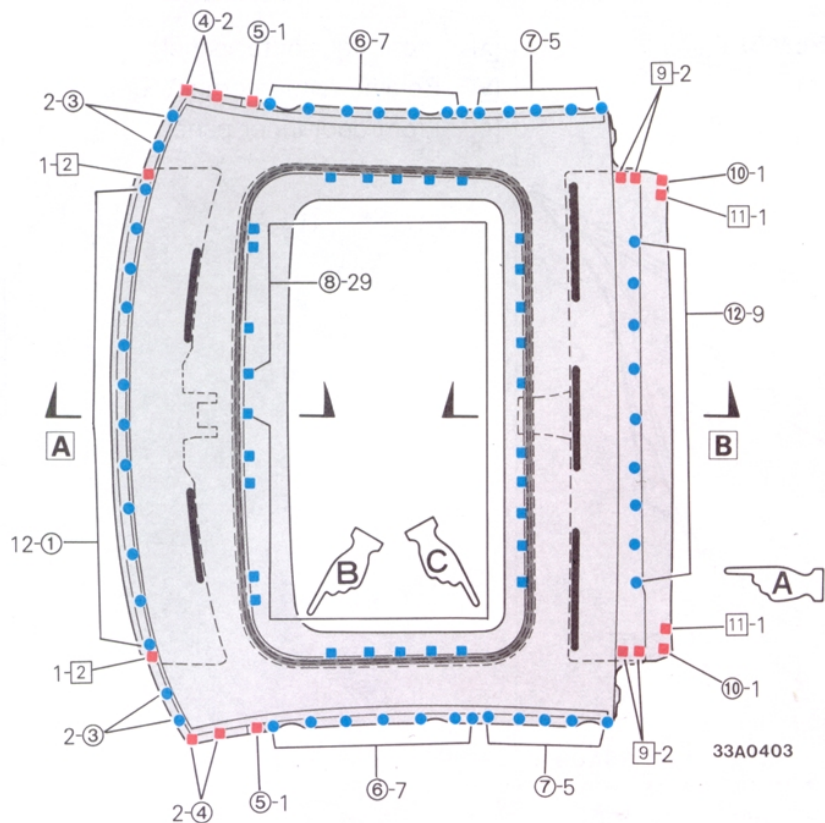
33A0180



33A0188

33A0413

[illegible]



33A0415

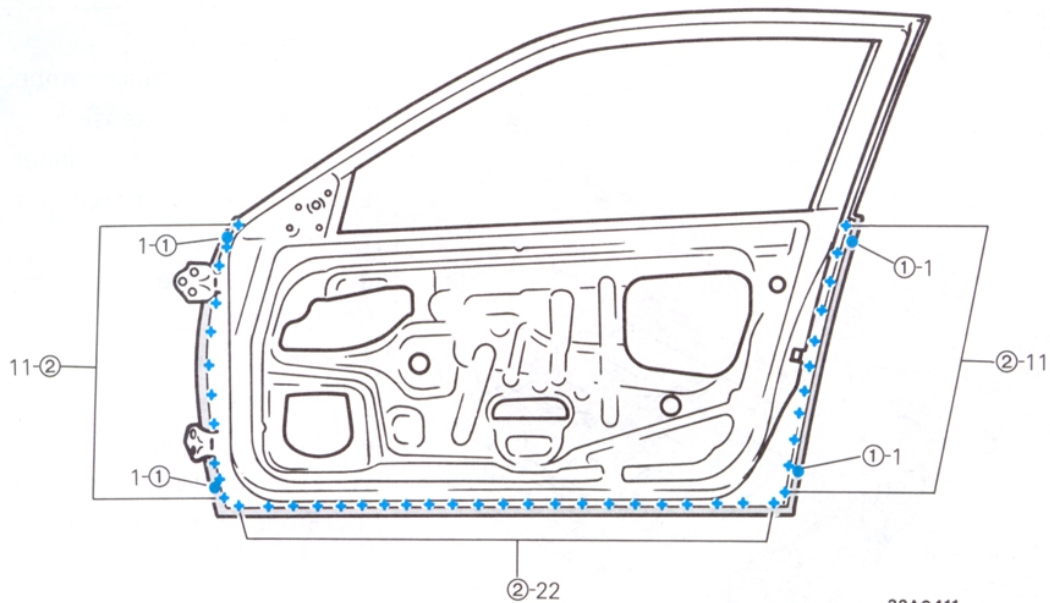
A diagram showing a road layout. A main road runs diagonally from the bottom left towards the top right. A side road branches off to the right from the main road. At the junction, there is a small black square. A callout line with the number '3' inside a circle points to this square. Further down the main road, there is another black rectangular shape.

A

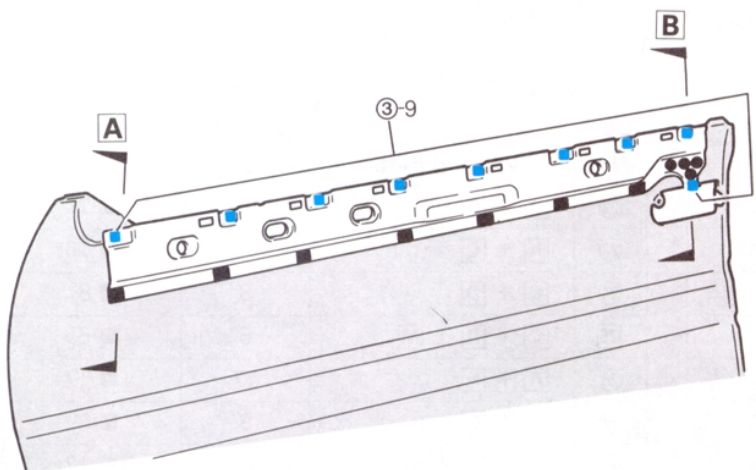
33A0405

**B**

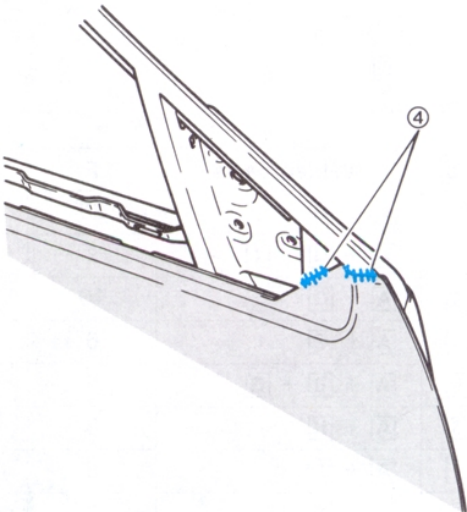
33A0404



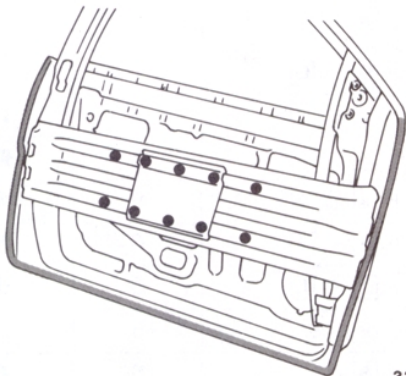
33A0411



33A0381

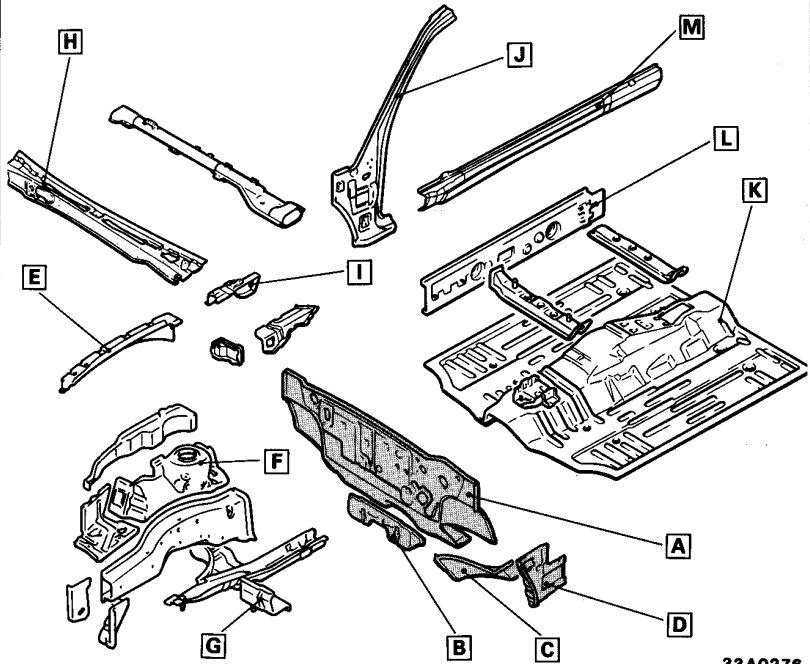


33A0179



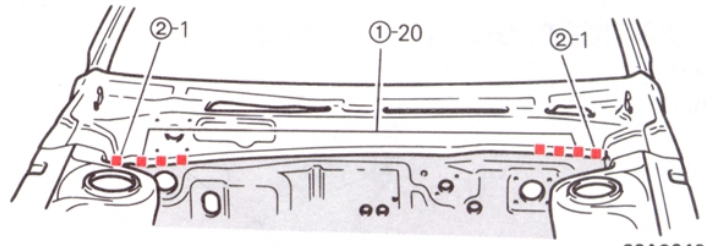
33A0408

■ : Silicon rubber sealer
■ : Moisture cured Urethane Adhesive
[Type: *Urethane E
*EESEX SPECIALITY PRODUCTS Inc.]

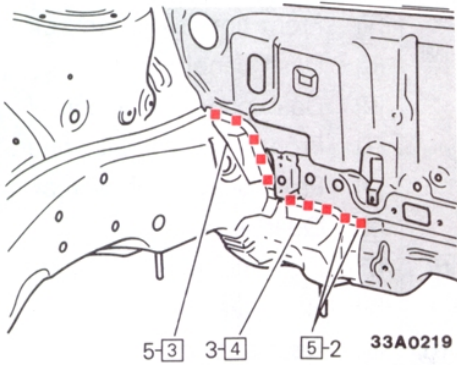
DASH PANEL		PART NAME
REPLACEMENT CONFIGURATION	—	
		A Dash panel B Dash panel crossmember C Dash panel extension D Front floor side sill, inner, front E Front upper frame, outer F Strut house panel G Front sidemember H Cowl top panel I Upper frame extension, inner J Front pillar K Front floor pan L Front floor side sill, inner M Front floor side sill, outer
33A0276		

No.	Welded parts	F	R
①	A + H	20	■ 20
②	A + H + I	2	■ 2
③	A + G	10	■ 10
④	A + G	6	■ 6
⑤	A + B + G	6	■ 6
⑥	A + H	3	■ 3
⑦	A + F	8	■ 8
⑧	A + F	2	■ 2
⑨	D + J	2	■ 2
⑩	D + J	10	■ 10
⑪	D + J	4	■ 4
⑫	D + J	4	■ 4
⑬	D + J + M	2	■ 2
⑭	D + L + M	2	■ 2
⑮	D + L	4	■ 4
⑯	D + L	6	■ 6
⑰	C + D + L	4	■ 4
⑱	C + G	8	■ 8
⑲	C + G + K	4	■ 4
⑳	A + C + G	2	■ 2
㉑	A + G	6	■ 6

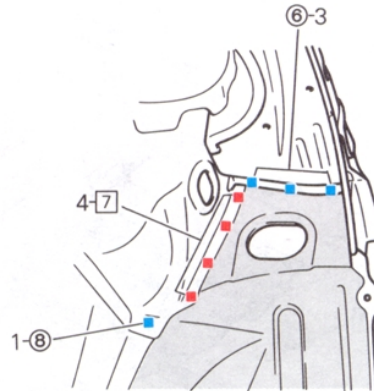
No.	Welded parts	F	R
㉒	A + G	2	■ 2
㉓	A + C	16	■ 16
㉔	C + D	8	■ 8
㉕	C + D + M	6	■ 6
㉖	A + K	17	■ 17
㉗	A + G	8	■ 8
㉘	A + C + G	12	■ 12
㉙	D + G	6	■ 6
㉚	D + L + M	6	■ 6
㉛	D + G + M	8	■ 8
㉜	A + D + G	6	■ 6
㉝	A + D + J	6	■ 6
㉞	A + D	2	■ 2
㉟	A + J	8	■ 8
㊱	A + E + J	6	■ 6
㊲	D + K + L	6	■ 6
㊳	A + B	5	■ 5
㊴	A + B	6	■ 6
㊵	A + B	2	■ 2
㊶	B + G	8	■ 8
㊷	A + B	5	■ 5



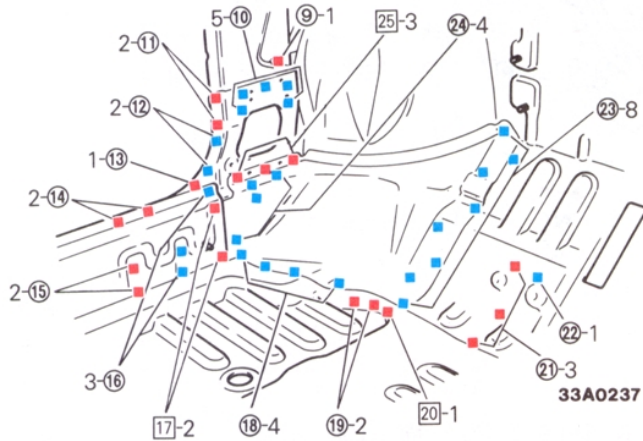
33A0243



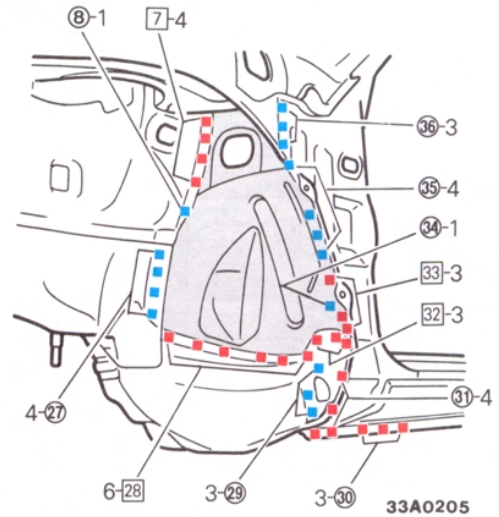
33A0219



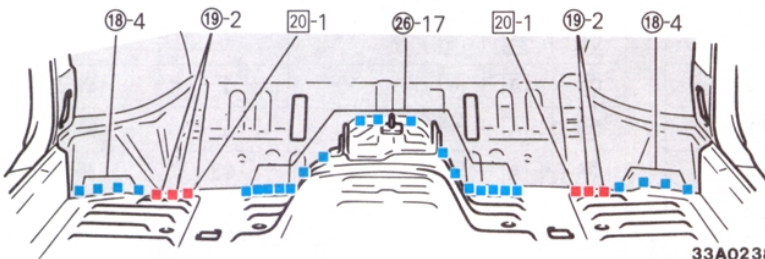
33A0232



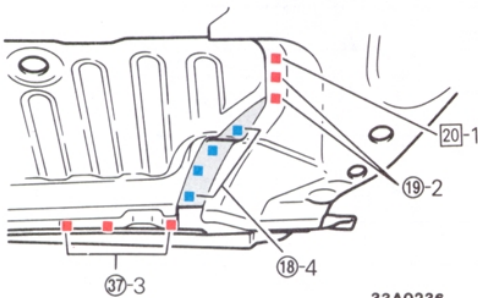
33A0237



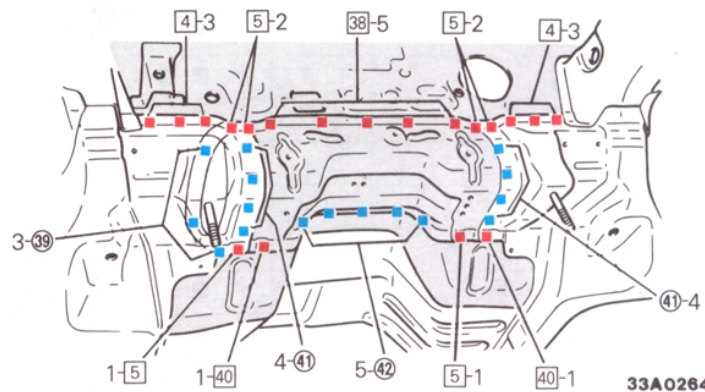
33A0205



33A0238



33A0236

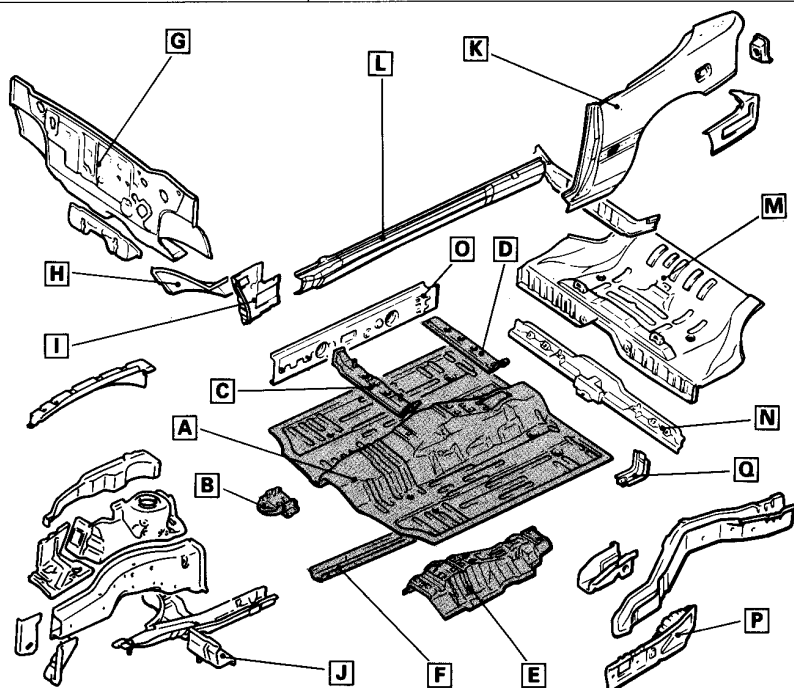


33A0264

FRONT FLOOR PAN <2WD>

PART NAME

REPLACEMENT CONFIGURATION

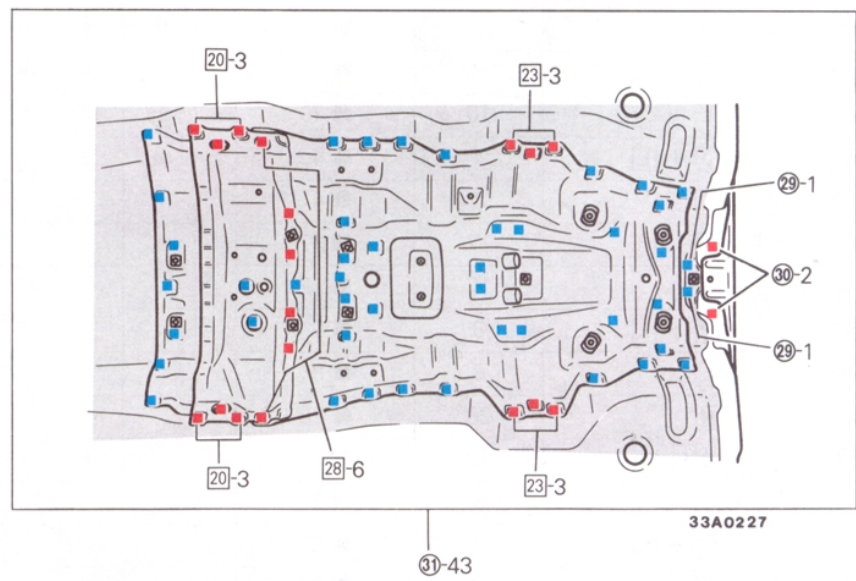
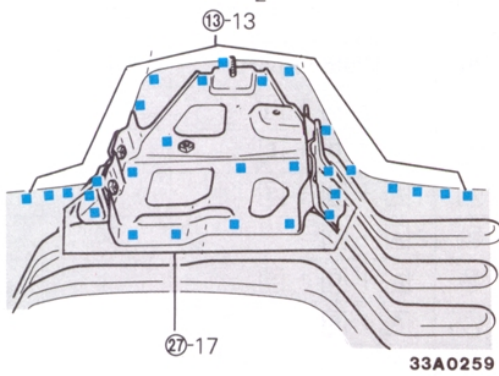
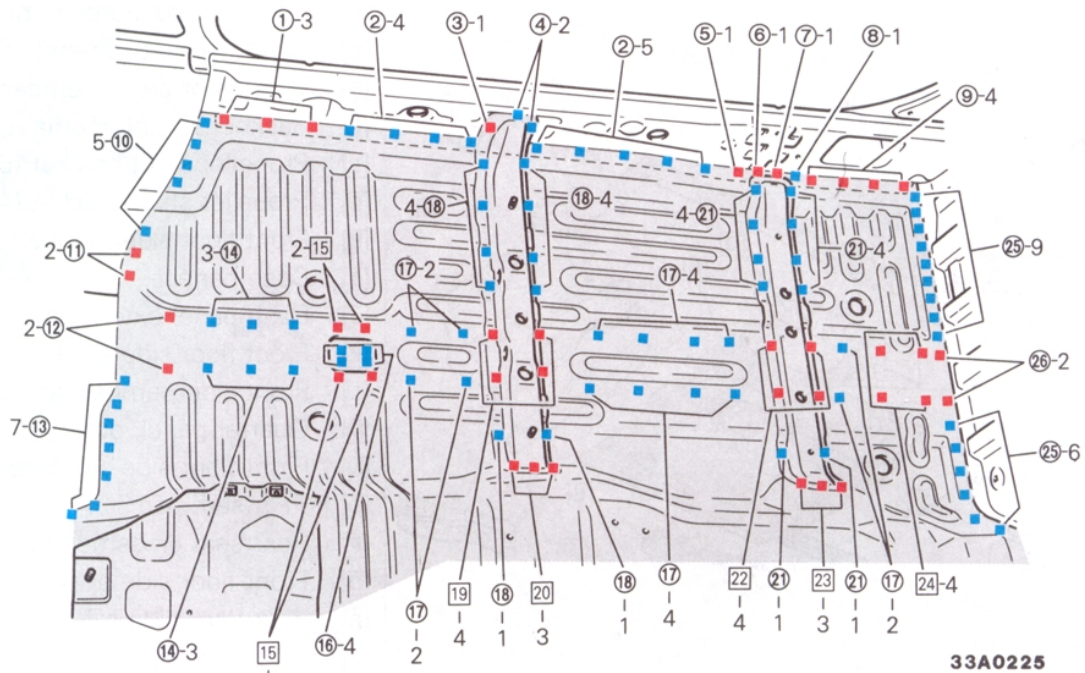


33A0277

- A** Front floor pan
- B** Backbone reinforcement, front
- C** Front floor crossmember, front
- D** Front floor crossmember, rear
- E** Backbone reinforcement, rear
- F** Front floor sidemember
- G** Dash panel
- H** Dash panel extension
- I** Front floor side sill, inner, front
- J** Front sidemember, rear
- K** Quarter panel, outer
- L** Front floor side sill, outer
- M** Rear seat pan
- N** Rear seat crossmember
- O** Front floor side sill, inner
- P** Rear floor side sill
- Q** Sidemember rear floor extension

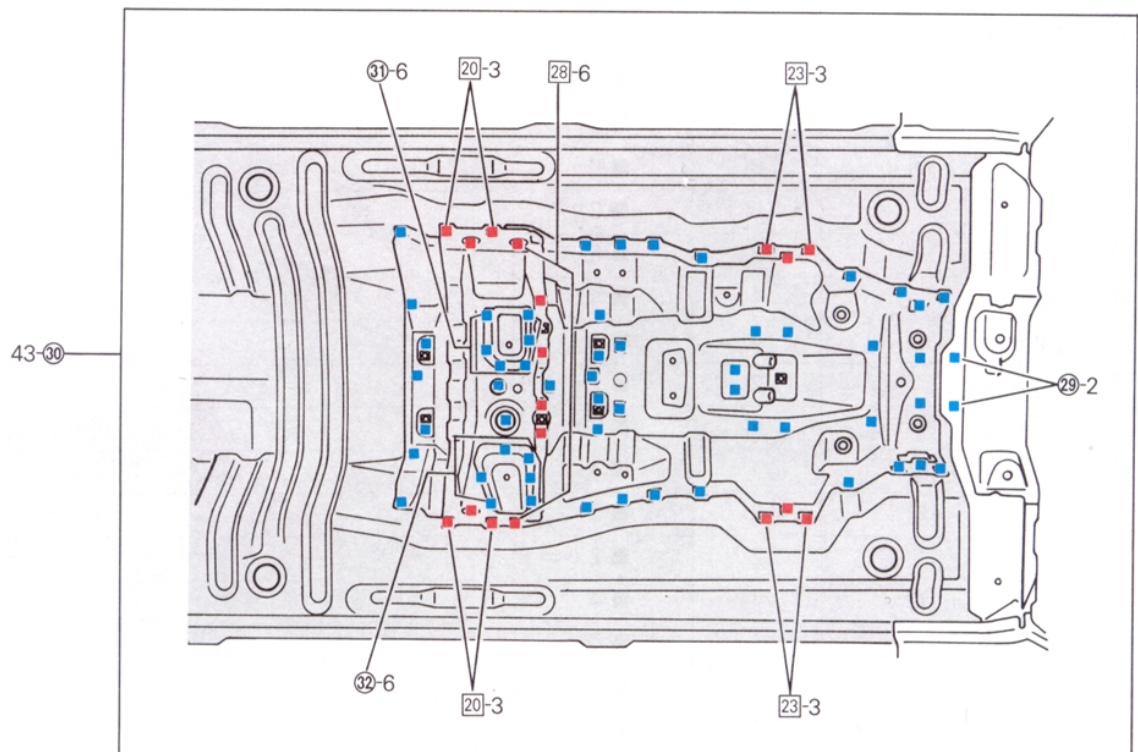
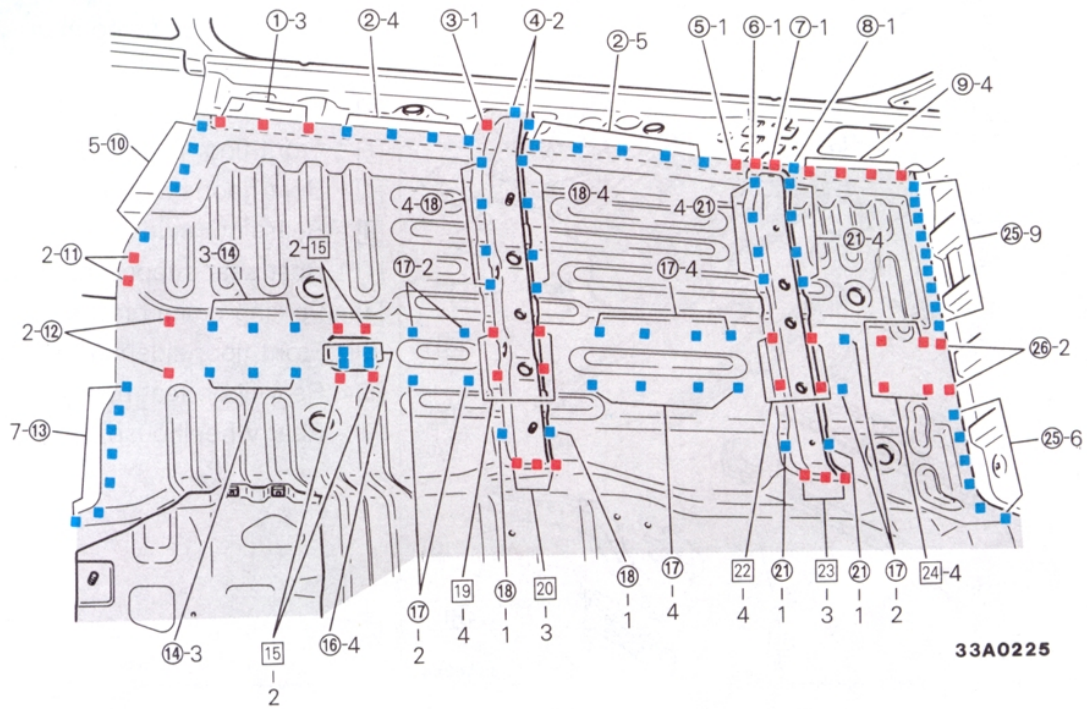
No.	Welded parts	F	R
①	A + I + O	6	■ 6
②	A + O	18	■ 18
③	C + O	2	■ 2
④	C + O	4	■ 4
⑤	A + L + O	2	■ 2
⑥	A + O + P	2	■ 2
⑦	A + L + P	2	■ 2
⑧	A + P	2	■ 2
⑨	A + K + P	8	■ 8
⑩	A + J	10	■ 10
⑪	A + H + J	4	■ 4
⑫	A + J	4	■ 4
⑬	A + G	17	■ 17
⑭	A + J	12	■ 12
⑮	A + F + J	8	■ 8
⑯	F + J	8	■ 8
⑰	A + F	28	■ 28
⑱	A + C	20	■ 20
⑲	A + C + F	8	■ 8
⑳	A + C + E	6	■ 6
㉑	A + D	20	■ 20

[illegible]



33A0417

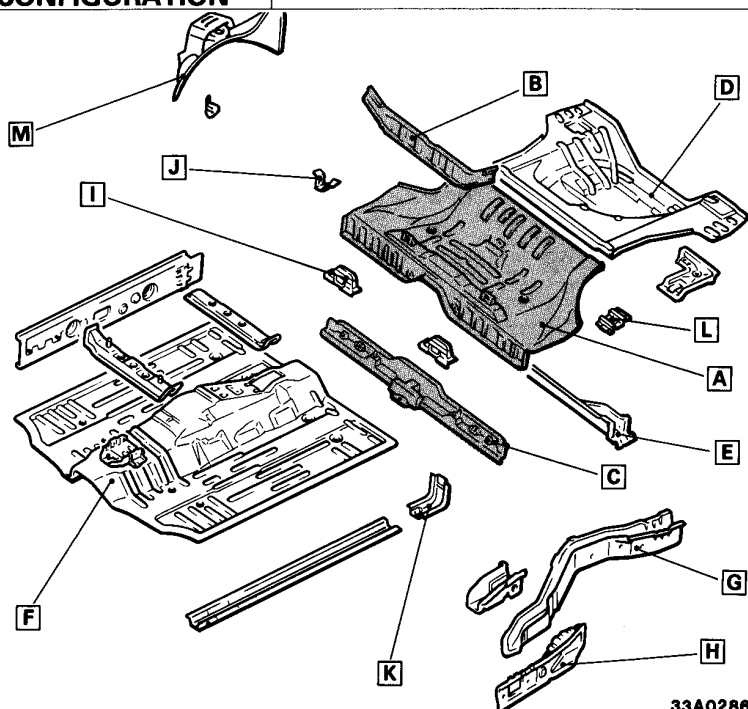
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REAR SEAT PAN <2WD>

PART NAME

REPLACEMENT CONFIGURATION

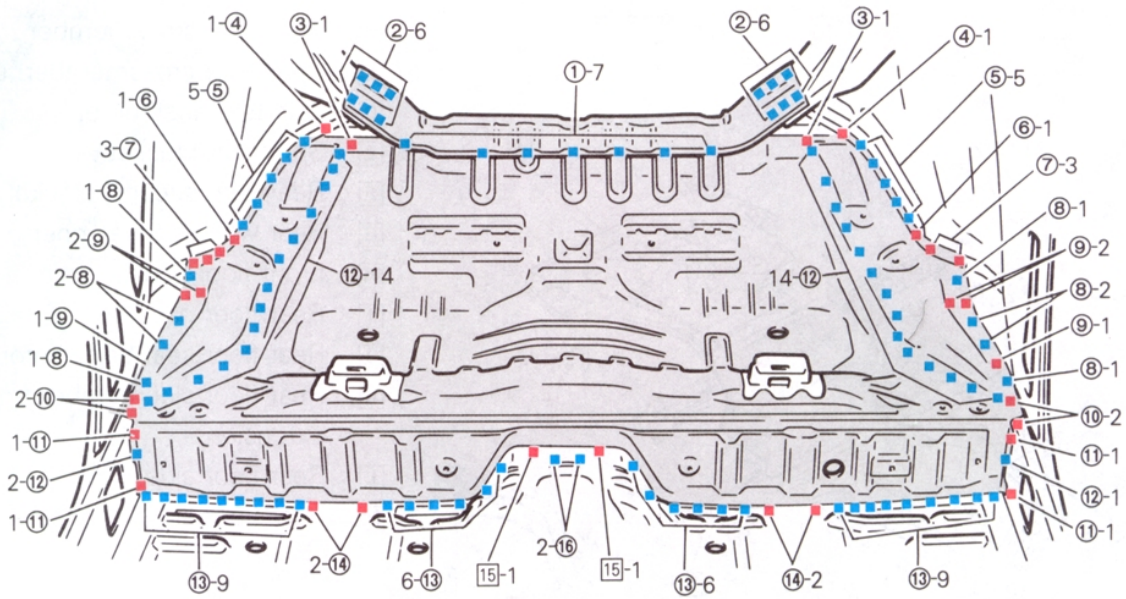


33A0286

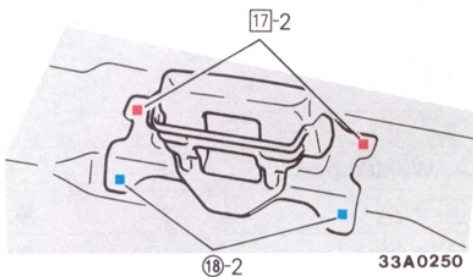
- A** Rear seat pan
- B** Rear floor crossmember, upper
- C** Rear seat crossmember
- D** Rear floor pan
- E** Rear floor crossmember, lower
- F** Front floor pan
- G** Rear floor sidemember
- H** Rear floor side sill
- I** Rear seat support bracket
- J** Parking brake bracket
- K** Front floor sidemember extension
- L** Rear floor seat belt reinforcement
- M** Rear wheelhouse, inner

No.	Welded parts	F	R
①	A + B	7	■ 7
②	B + M	12	■ 12
③	A + D + E ★	2	■ 2
④	A + D + G	2	■ 2
⑤	A + G	10	■ 10
⑥	A + G + H	2	■ 2
⑦	A + H + M	6	■ 6
⑧	A + H	8	■ 8
⑨	A + H	6	■ 6
⑩	A + H	4	■ 4
⑪	A + H	4	■ 4
⑫	A + H	2	■ 2
⑬	A + F	30	■ 30
⑭	A + F + K	4	■ 4
⑮	A + C + F	2	■ 2
⑯	C + F	2	■ 2
⑰	A + C + I	4	■ 4
⑱	A + I	4	■ 4
⑲	A + L	12	■ 12
⑳	A + B + D ★	7	■ 7
㉑	A + B + E ★	11	■ 11

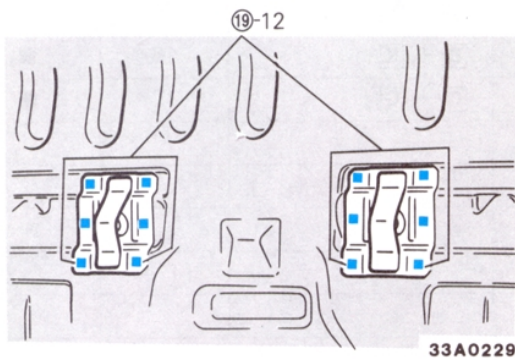
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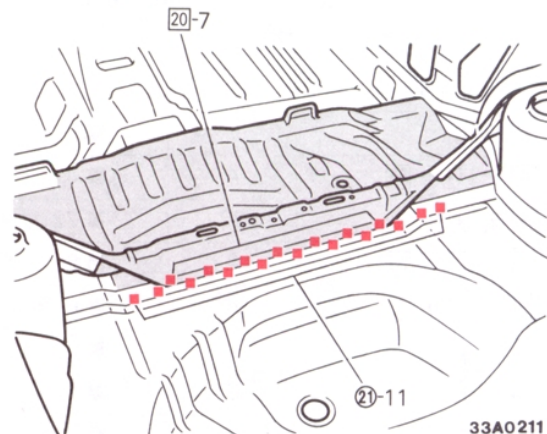
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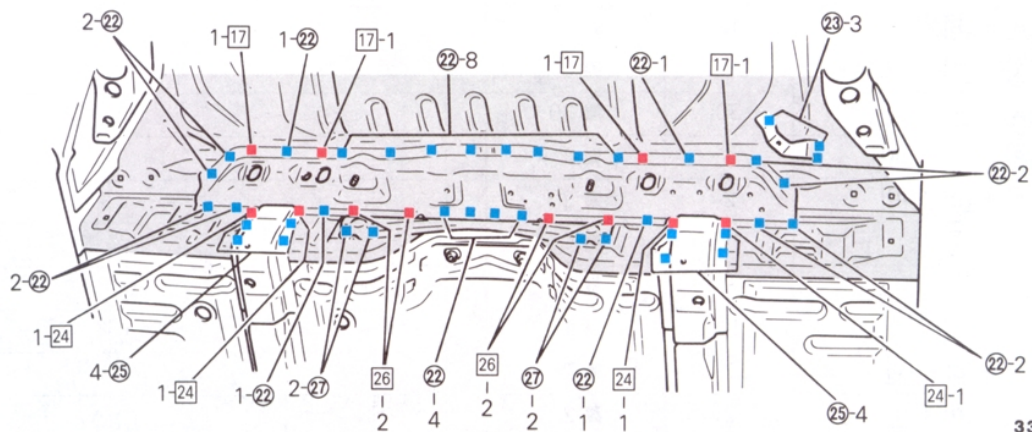
33A0250



33A0229



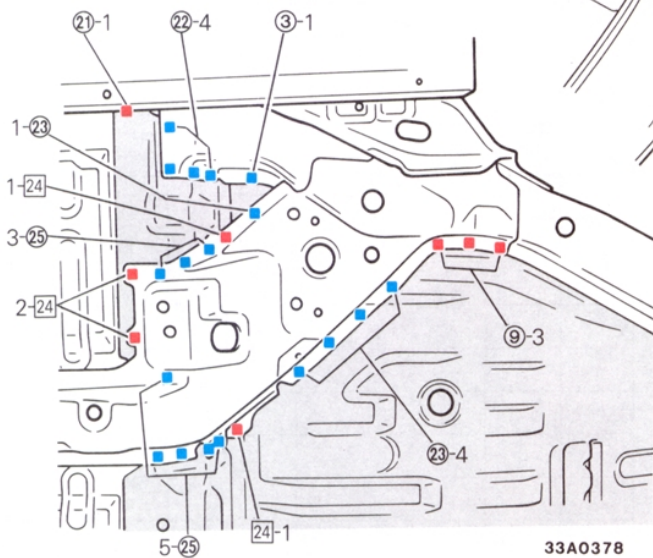
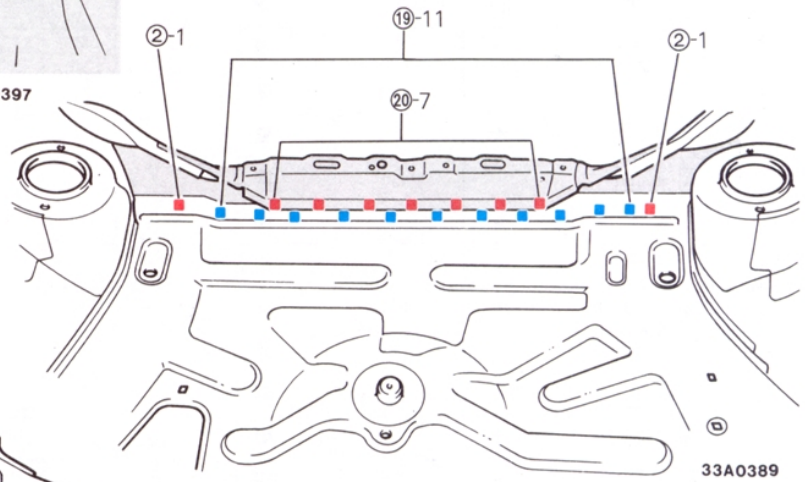
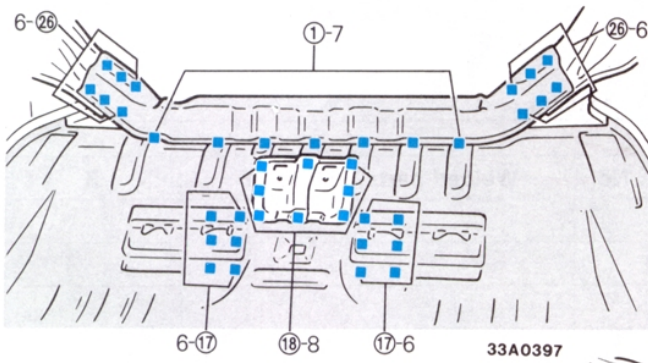
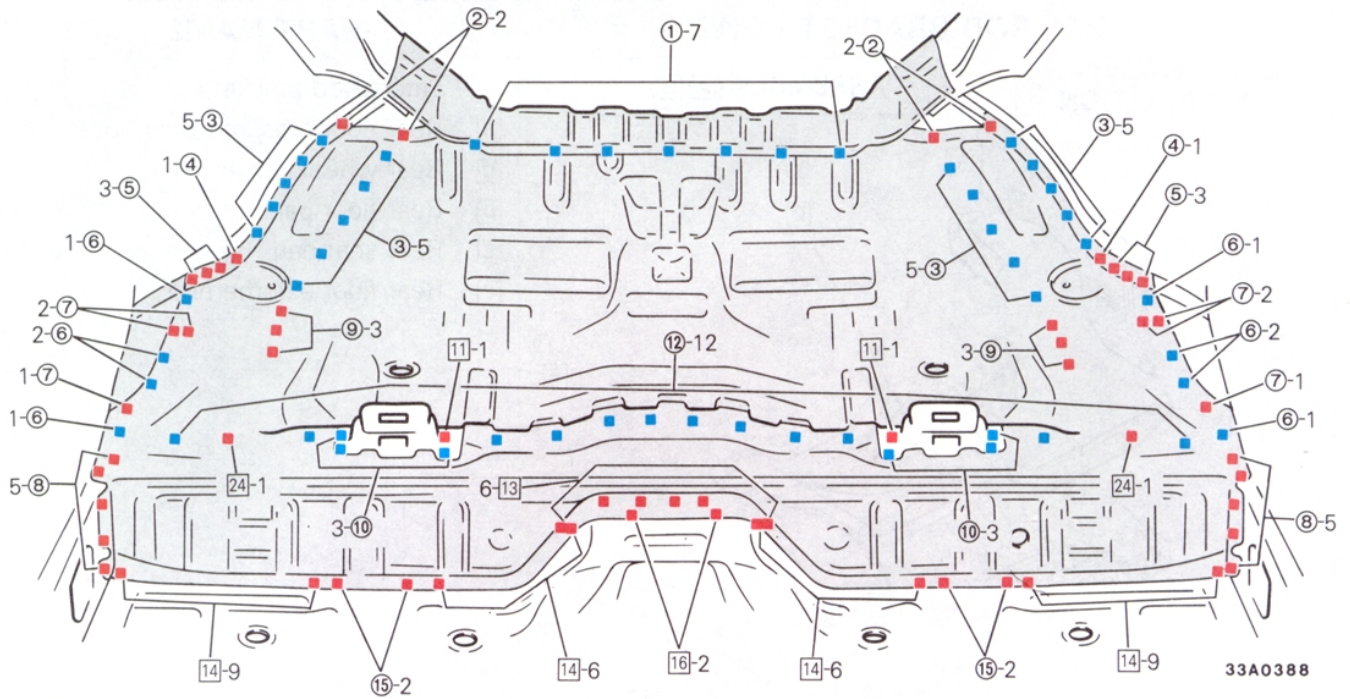
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33A0223

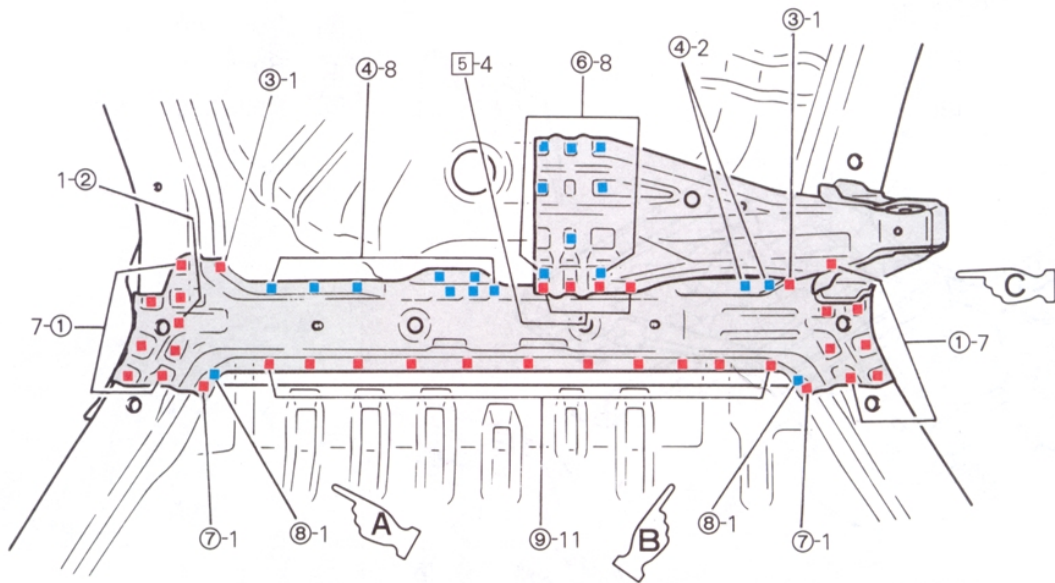
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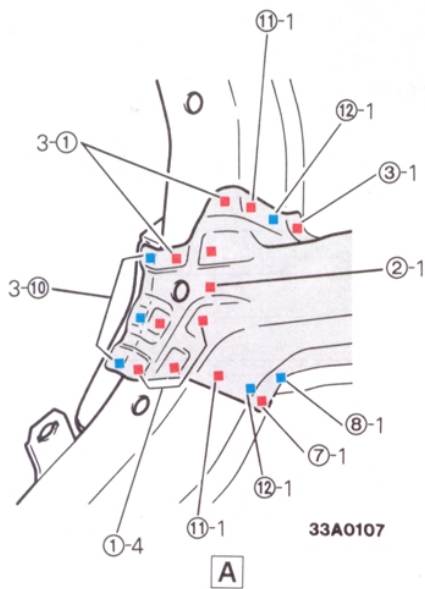


33A0278

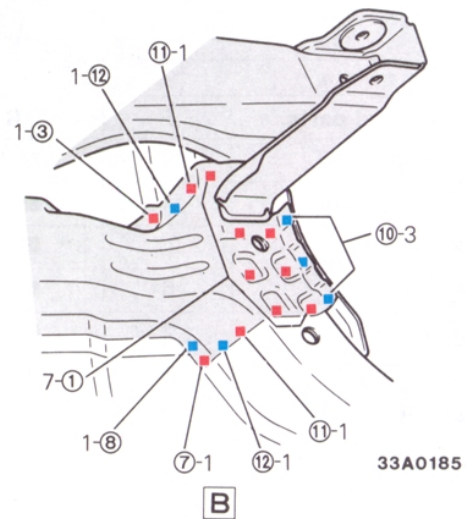
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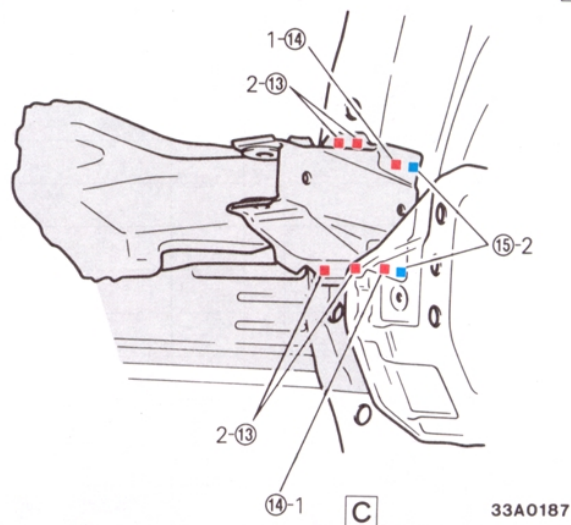
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33A0107



33A0185

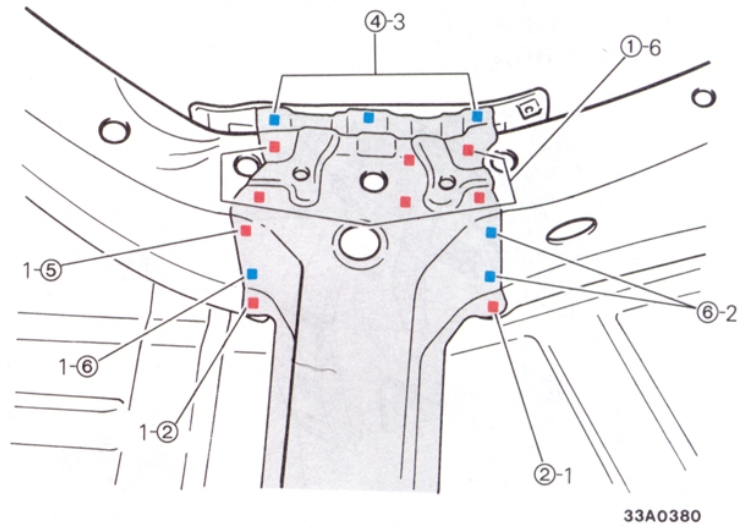
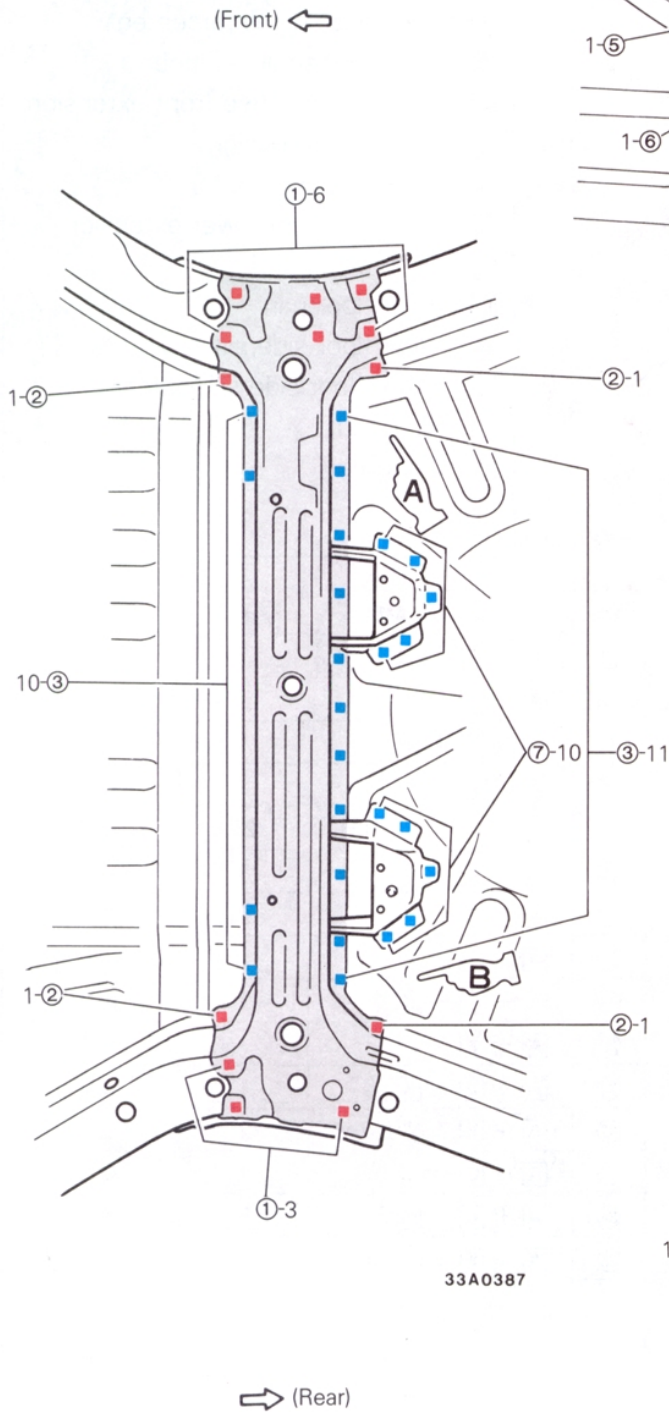


33A0187

REAR FLOOR CROSSMEMBER <4WD>		PART NAME
REPLACEMENT CONFIGURATION	ASSEMBLY (A)	A Rear floor crossmember B Rear floor pan C Rear wheelhouse, inner D Rear floor sidemember

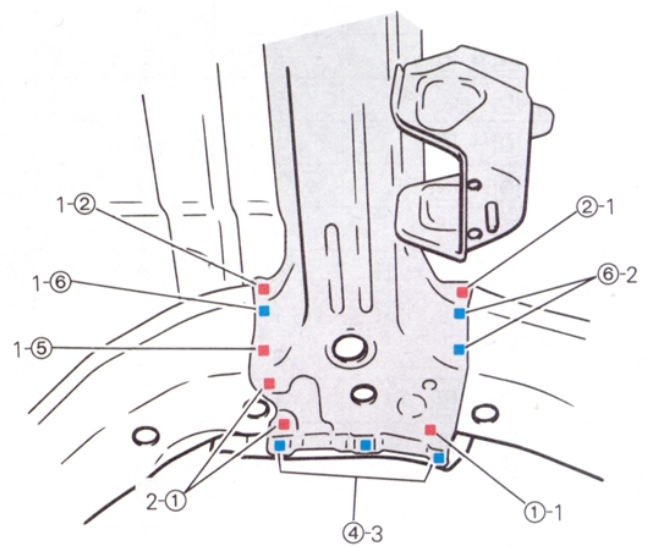
33A0416

[illegible][illegible]



(Left side)

A



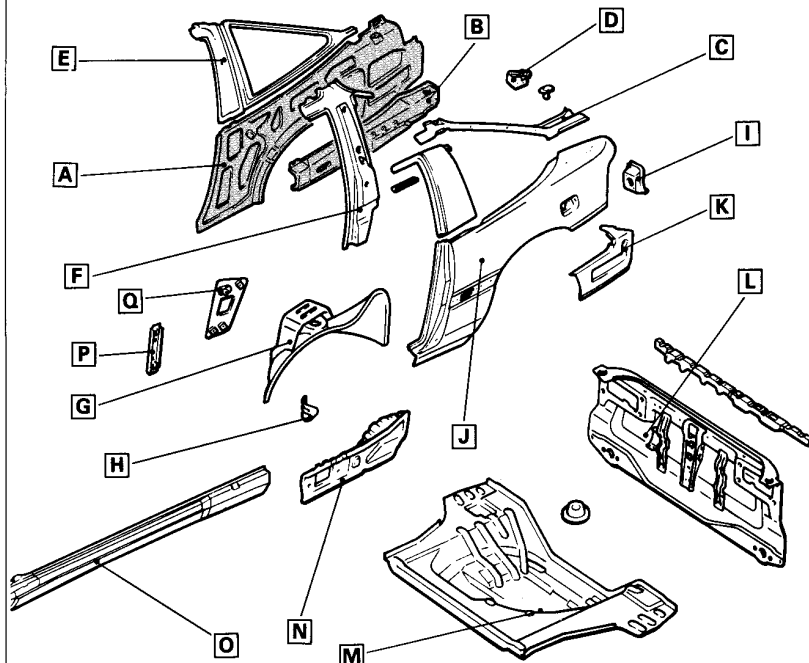
(Right side)

B

QUARTER PANEL, INNER

PART NAME

REPLACEMENT CONFIGURATION

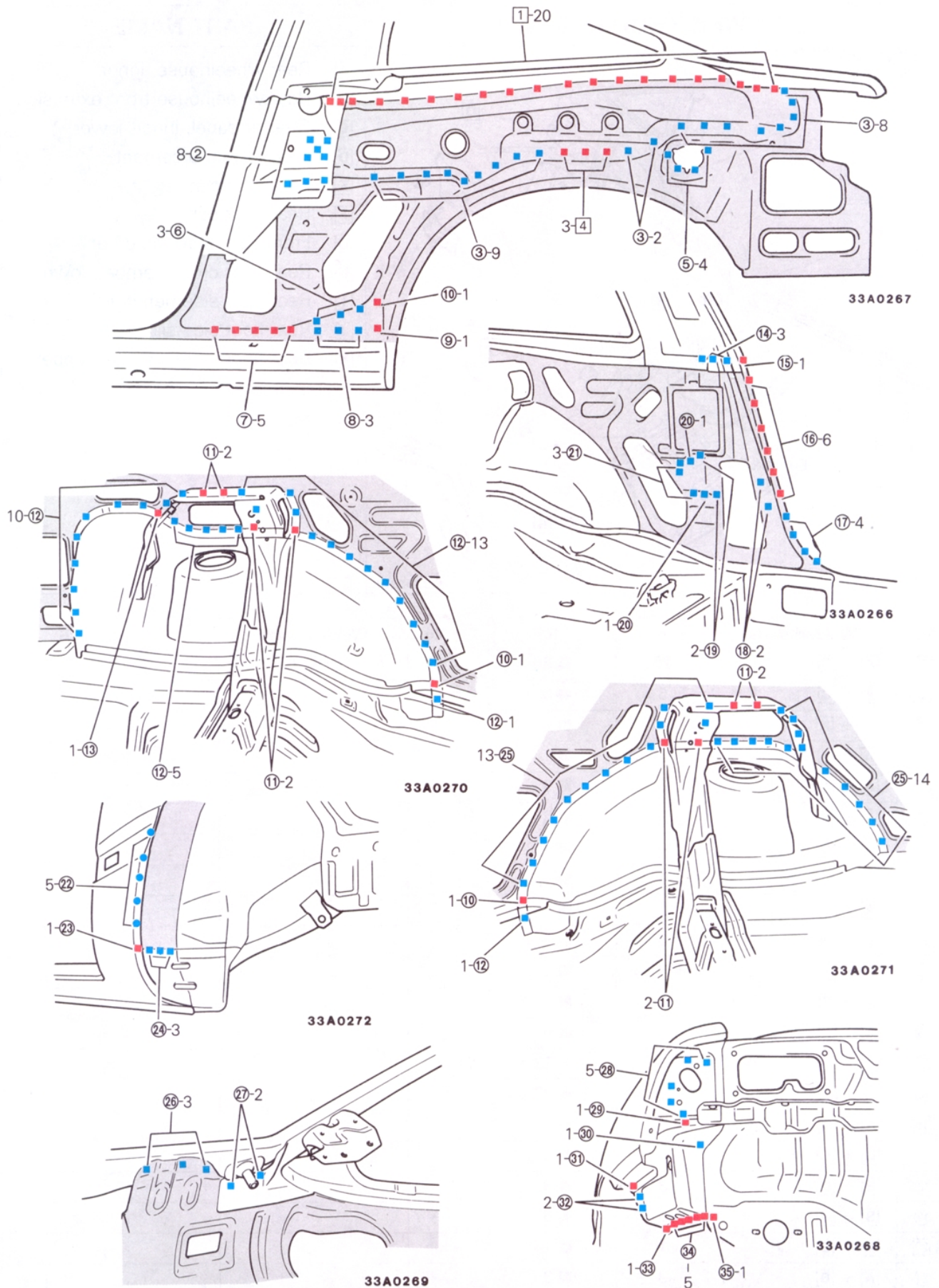


33A0289

- A** Quarter panel, inner, lower
- B** Beltline reinforcement
- C** Rear pillar, outer
- D** Gas spring bracket
- E** Quarter panel, inner, upper
- F** Center pillar reinforcement
- G** Rear wheelhouse, inner
- H** Rear wheelhouse front extension
- I** Rear lamp housing
- J** Quarter panel, outer
- K** Quarter panel lower extension
- L** Rear end panel
- M** Rear floor pan
- N** Rear floor side sill
- O** Front floor side sill, outer
- P** Plate nut
- Q** Plate nut

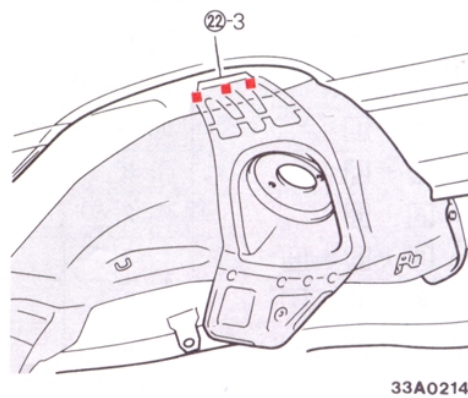
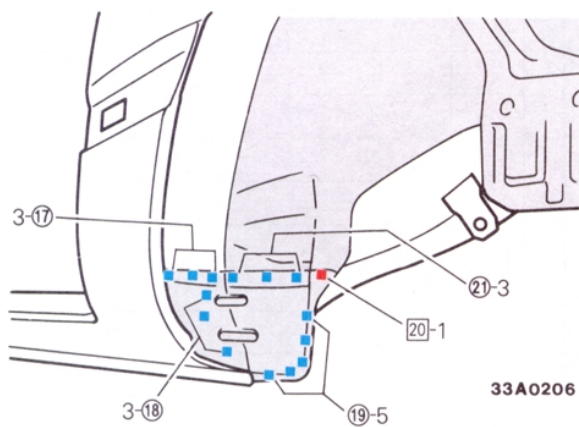
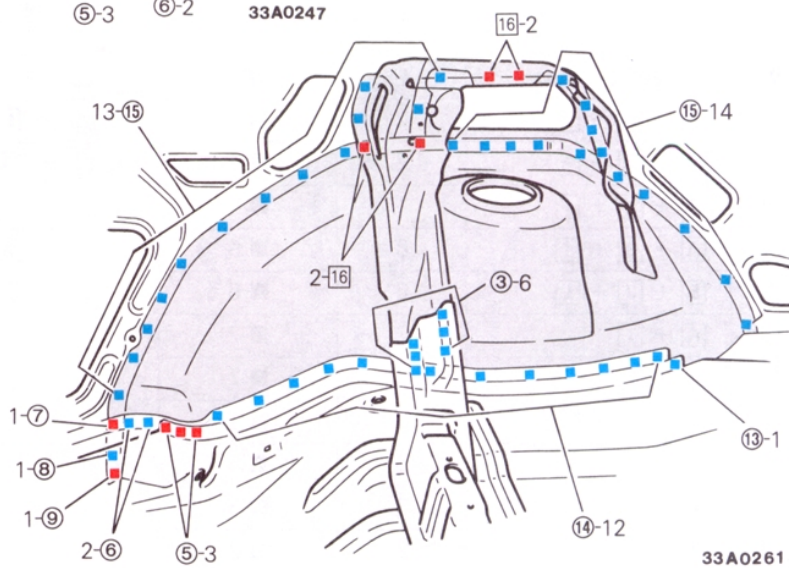
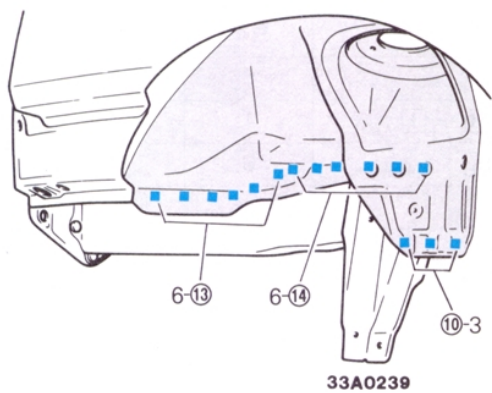
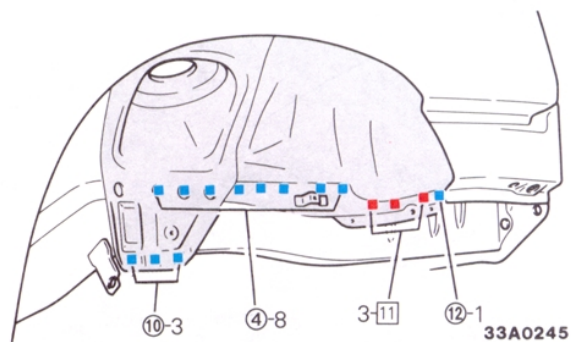
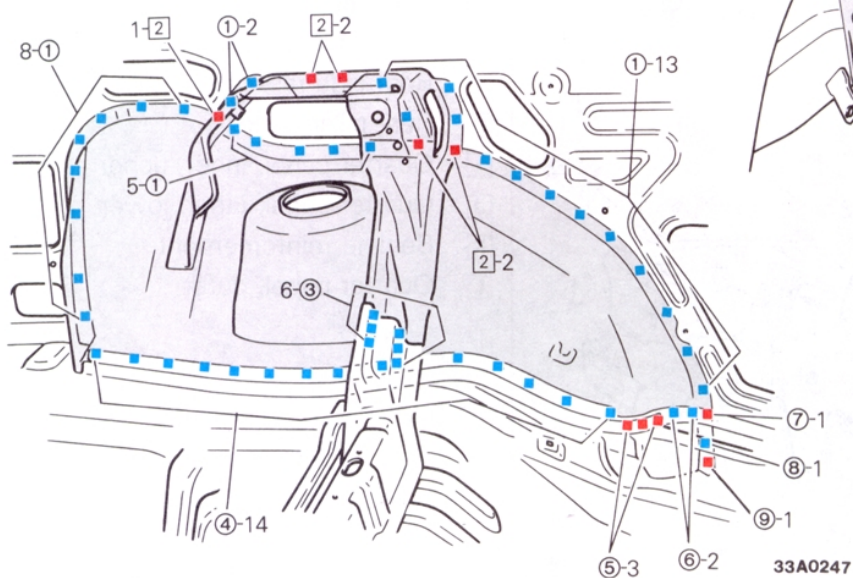
No.	Welded parts	F	R
①	A + B + E	20	■ 20
②	B + F	8	■ 8
③	A + B L.H. R.H.	19	■ 19
		21	■ 21
④	A + B + G	3	■ 3
⑤	A + J L.H.	4	■ 4
⑥	A + N	3	■ 3
⑦	A + N + O	5	■ 5
⑧	A + O	3	■ 3
⑨	A + G + O	1	■ 1
⑩	A + G + N	1	■ 1
⑪	A + G	4	■ 4
⑫	A + G L.H.	29	■ 29
⑬	A + G L.H.	1	■ 1
⑭	A + E	3	■ 3
⑮	A + E + F	1	■ 1
⑯	A + F + J	6	■ 6
⑰	A + J	4	■ 4
⑱	A + P ★	2	■ 2
⑲	A + Q ★	2	■ 2
⑳	A + Q R.H. ★	2	■ 2

[illegible]



33A0288

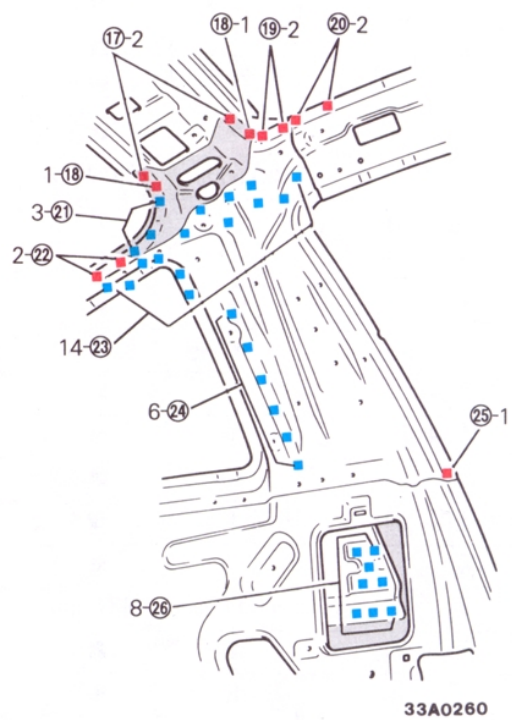
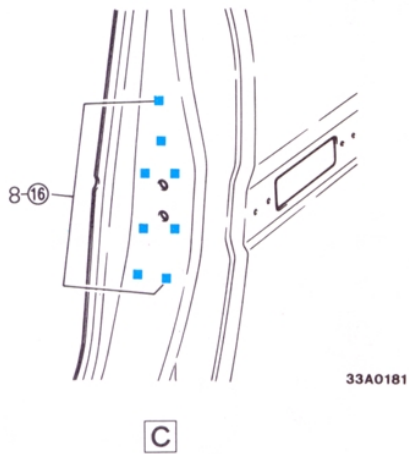
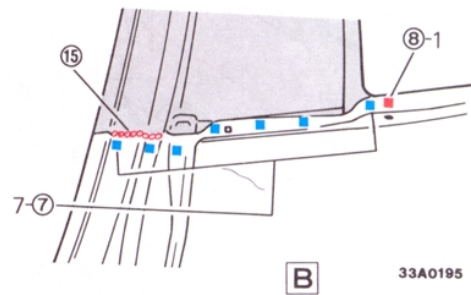
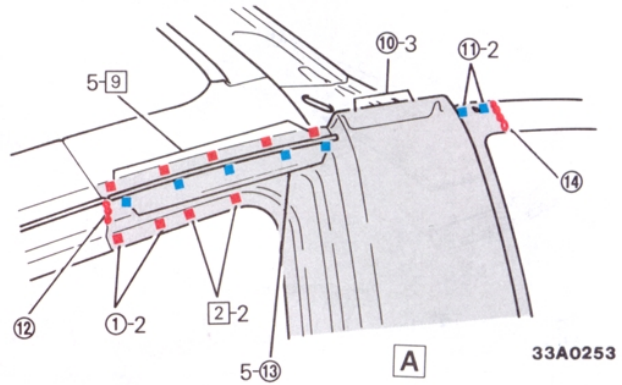
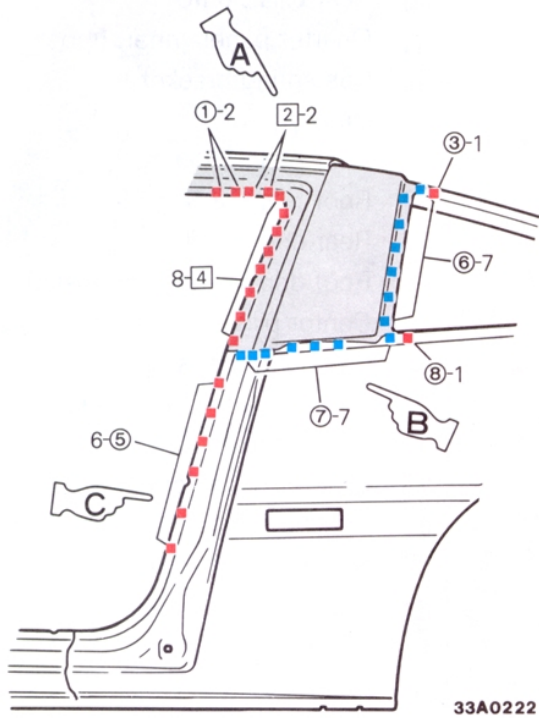
[illegible]



CENTER PILLAR		PART NAME
REPLACEMENT CONFIGURATION	—	
The diagram illustrates the assembly of the center pillar. It shows the outer pillar (A) being attached to the inner reinforcement (B). The roof panel (D) is shown being secured by the roof rear rail (E) and roof side rails (F and G). The quarter panels (I and L) are shown being attached to the pillar and roof rails. The beltline reinforcement (K) and drip channel extension (C) are also shown as part of the assembly. The rear pillar (H) is shown as a separate component. The quarter panel inner lower (J) and inner upper (I) are shown being attached to the pillar.		A Center pillar, outer B Center pillar reinforcement C Roof drip channel extension D Roof panel E Roof rear rail F Roof side rail, inner G Roof side rail, outer H Rear pillar, outer I Quarter panel, inner, upper J Quarter panel, inner, lower K Beltline reinforcement L Quarter panel, outer
		33A0273

No.	Welded parts	F	R
①	A + F + G	2	■ 2
②	A + B + F	2	■ 2
③	A + H + I	1	■ 1
④	A + B + I	8	■ 8
⑤	B + J + L	6	■ 6
⑥	A + I	7	■ 7
⑦	A + L	7	■ 7
⑧	A + I + L	1	■ 1
⑨	A + C + H	5	■ 5
⑩	A + H	3	■ 3
⑪	A + H	2	■ 2
⑫	A + G	MIG brazing	MIG brazing
⑬	C + D	5	■ 5
⑭	A + H	MIG brazing	MIG brazing
⑮	A + L	MIG brazing	MIG brazing
⑯	B + L	8	■ 8
⑰	B + E	2	■ 2
⑱	B + E + H	2	■ 2
⑲	B + H + I	2	■ 2
⑳	B + F + H	2	■ 2
㉑	B + H	3	■ 3

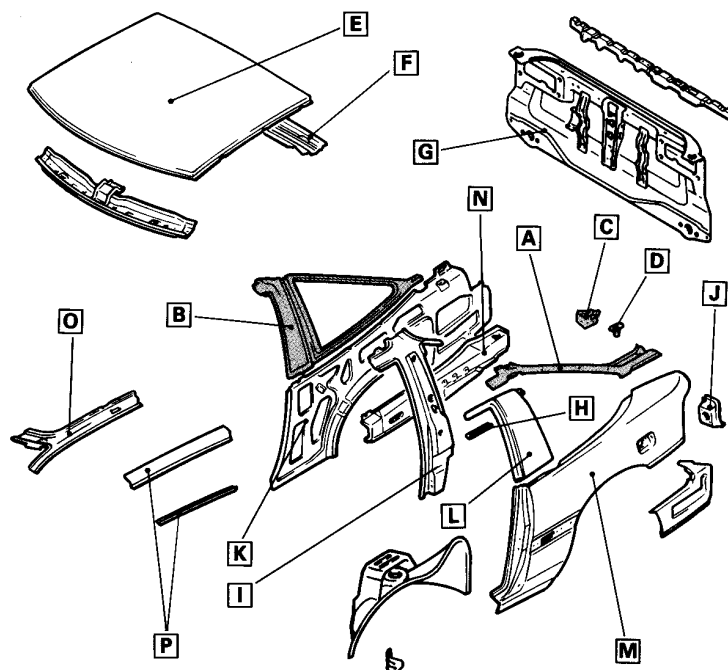
[illegible]



REAR PILLAR

PART NAME

REPLACEMENT CONFIGURATION

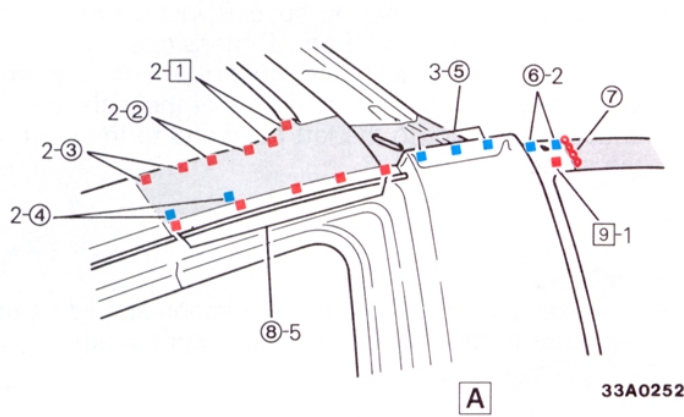


33A0273

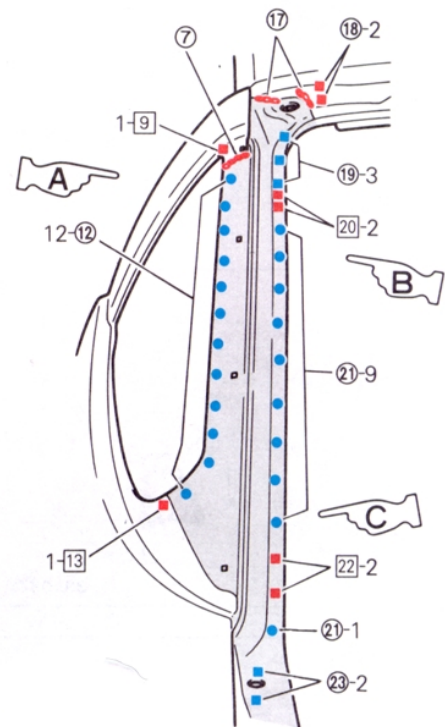
- A** Rear pillar, outer
- B** Quarter panel, inner, upper
- C** Gas spring bracket
- D** Drain pipe
- E** Roof panel
- F** Roof rear rail
- G** Rear end panel
- H** Roof drip channel extension
- I** Center pillar reinforcement
- J** Rear lamp housing
- K** Quarter panel, inner, lower
- L** Center pillar, outer
- M** Quarter panel, outer
- N** Beltline reinforcement
- O** Side roof rail, inner
- P** Side roof rail, outer

No.	Welded parts	F	R
①	A + B + I	2	■ 2
②	A + I + O	2	■ 2
③	A + O + P	2	■ 2
④	A + P	2	■ 2
⑤	A + L	3	■ 3
⑥	A + L	2	■ 2
⑦	A + L	MIG brazing	MIG brazing
⑧	A + H + L	5	■ 5
⑨	A + B + L	1	■ 1
⑩	B + L	7	■ 7
⑪	B + I + L	8	■ 8
⑫	A + B	12	■ 12
⑬	A + B + M	1	■ 1
⑭	A + M	10	■ 10
⑮	B + L + M	1	■ 1
⑯	B + M	10	■ 10
⑰	A + E	MIG brazing	MIG brazing
⑱	A + E + F	2	■ 2
⑲	A + I	3	■ 3
⑳	A + B + I	2	■ 2
㉑	A + B	10	■ 10

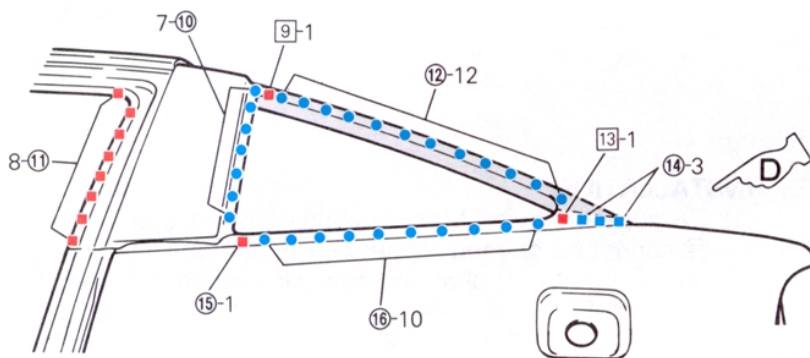
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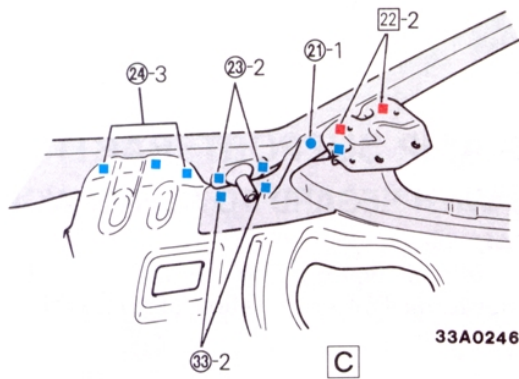
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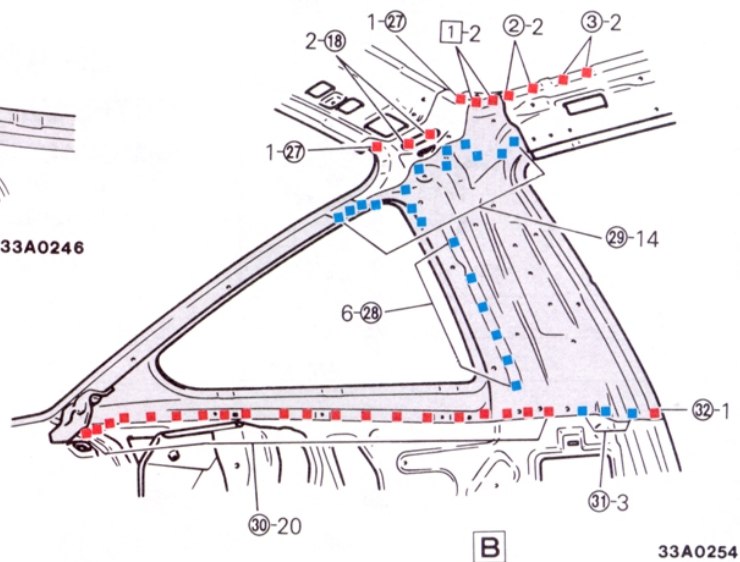
33A0251



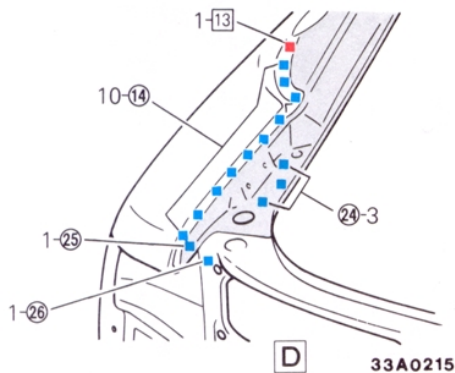
33A0221



33A0246



33A0254

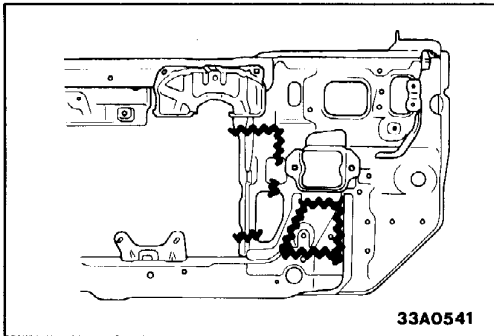


33A0215

HEADLAMP SUPPORT (ASSEMBLY)

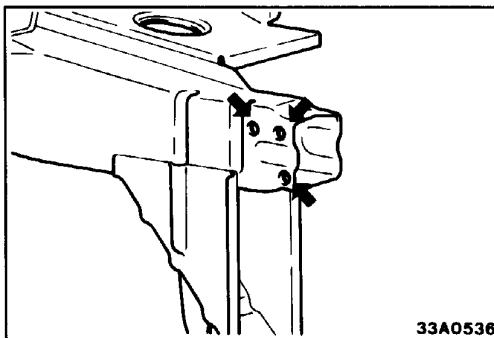
NOTES WITH REGARD TO REPAIR WORK

- For points which have no specific instructions with regard to measurements in "Body Dimensions", determine two points on the headlamp support which are positioned symmetrically, and then confirm that the distances from the body center point to the left point and to the right point are the same.



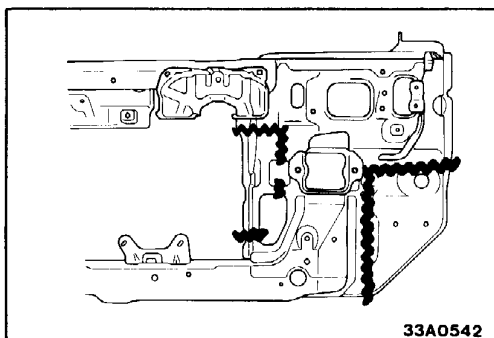
REMOVAL

- (1) The locations shown in the illustration should be rough cut in order to facilitate separation of spot welds.



INSTALLATION

- (1) Because the holes for plug welding of weld points ⑧ and ⑫ cannot be opened for new parts, the opening should be made where shown in the illustration of the front sidemember.



HEADLAMP SUPPORT (PART)

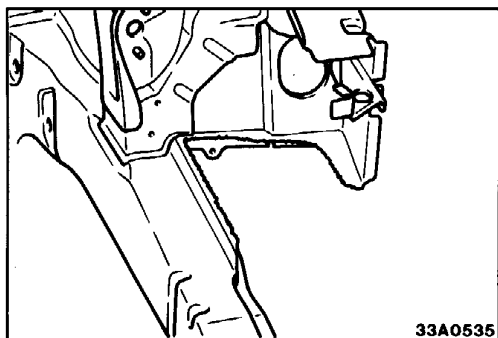
NOTES WITH REGARD TO REPAIR WORK

REMOVAL

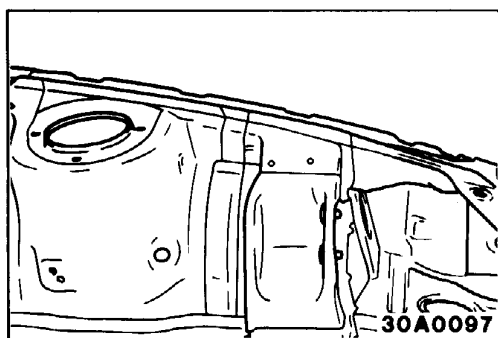
- (1) The locations shown in the illustration should be rough cut in order to facilitate separation of spot welds.

FRONT FENDER SHIELD**NOTES WITH REGARD TO REPAIR WORK**

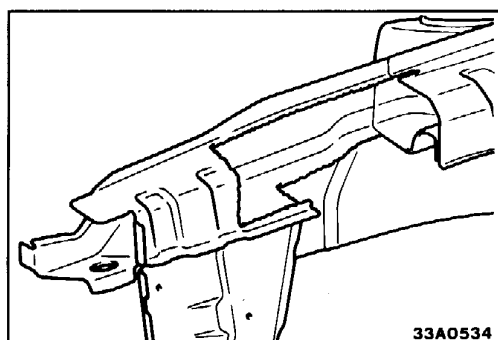
- The front upper frame (outer) and front upper frame (inner) should be butt-welded separately at the different position.

**REMOVAL**

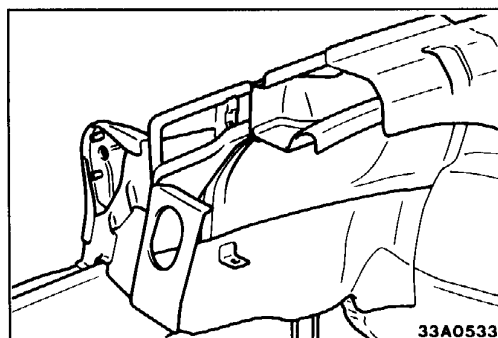
- (1) The shield plate should be rough cut in order to facilitate separation of spot welds.



- (2) Cut the front upper frame (outer) and front upper frame (inner) where shown in the illustration.



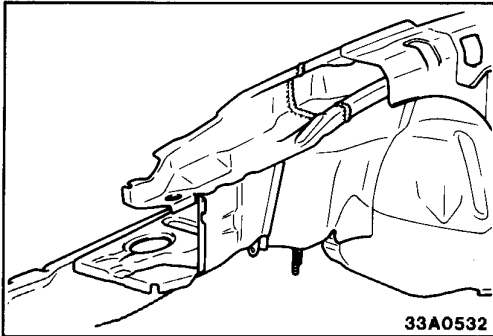
- (3) Rough-cut the front upper frame (outer) and front upper frame (inner) where shown in the illustration in order to separate weld point ②5.

**INSTALLATION**

- (1) Rough-cut the new front upper frame (outer), leaving a margin for overlap.
- (2) Temporarily mount the rough-cut new front upper frame (outer) to the body, and then cut the two pieces (overlap with panel) together.

Caution

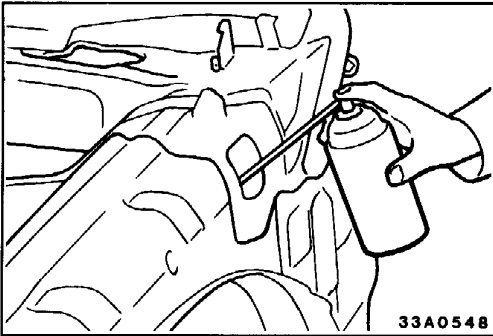
- Do not cut at the bead.



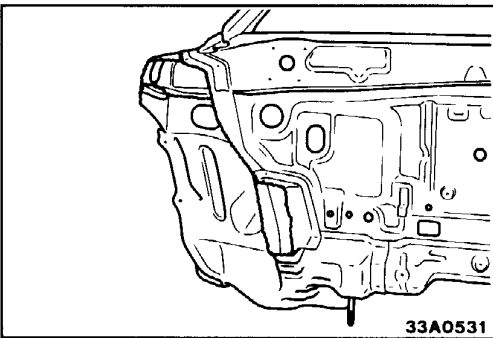
- (3) Cut the new front upper frame (inner), using the cut-out position at the body side as a reference.
- (4) First, install the front upper frame (inner) and the shield plate to the body, and weld.

Caution

- Weld point ②⑤ should be welded before installation of the front upper frame (outer).



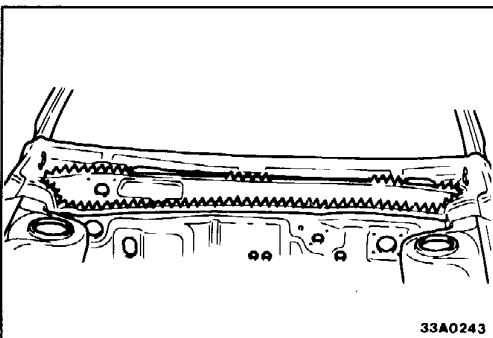
- (5) Then install the front upper frame (outer) to the body, and weld.
- (6) Apply a liberal amount of corrosion-prevention agent (using the hole indicated in the illustration) to the butt-weld locations.

**FENDER SHIELD ASSEMBLY****NOTES WITH REGARD TO REPAIR WORK****REMOVAL**

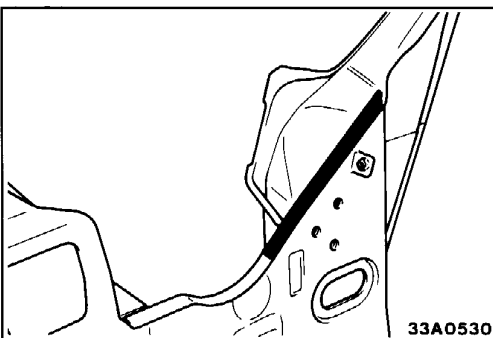
- (1) The locations shown in the illustration should be rough cut in order to facilitate separation of spot welds.

Caution

- Take care, when rough cutting, not to damage the dash panel, upper frame extension, etc.

**FRONT DECK****NOTES WITH REGARD TO REPAIR WORK****REMOVAL**

- (1) The locations shown in the illustration should be rough cut in order to facilitate separation of spot welds to the dash panel.

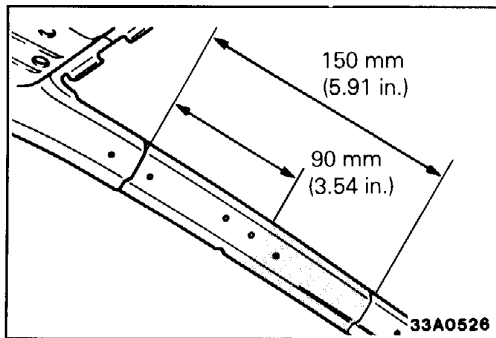
**INSTALLATION**

- (1) Apply a coating of silicon rubber sealer at the body side where shown in the illustration.

FRONT PILLAR

NOTES WITH REGARD TO REPAIR WORK

- When cutting the pillar, support the roof (by using portable power equipment, etc.) so that the roof does not sag.

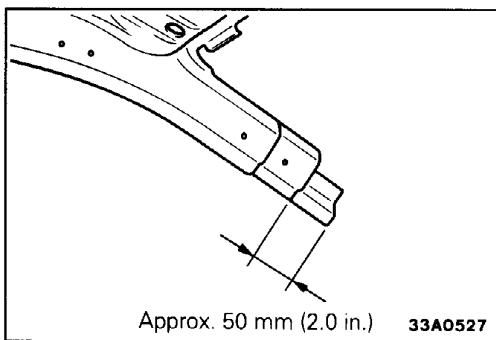


REMOVAL

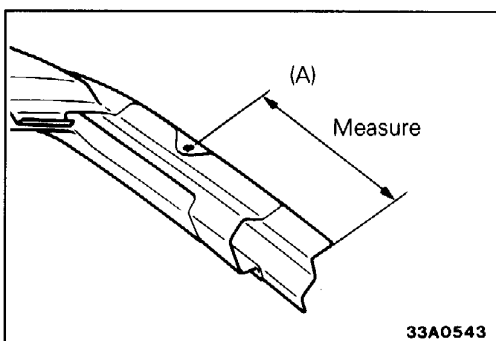
- (1) Cut the front pillar at a position 90 - 150 mm (3.54 - 5.91 in.) down from the end of the panel of the side roof rail (inner).

Caution

- Because the welding will be butt-welding, make the cut at a right angle to the pillar.



- (2) Cut only the front pillar (inner) and front pillar (inner upper) of the body side pillar approximately 50 mm (1.97 in.) upward from the cut-out.

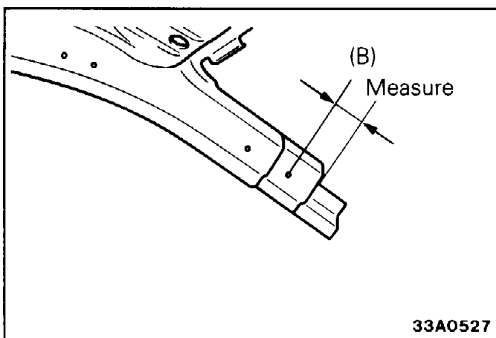


INSTALLATION

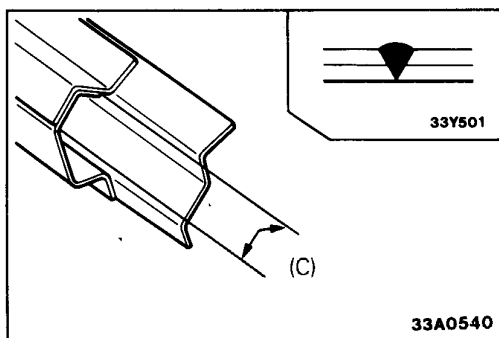
- (1) Measure the cut position of the body side pillar and make a mark on the new front pillar.

NOTE

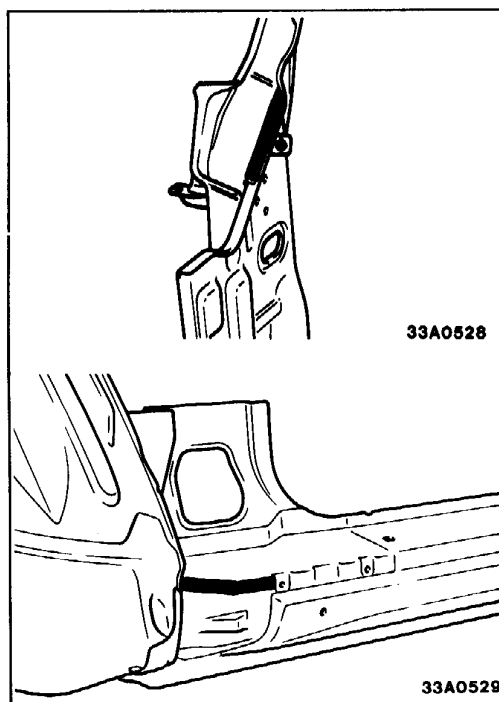
For the outer panel, use the drip moulding installation hole (A).



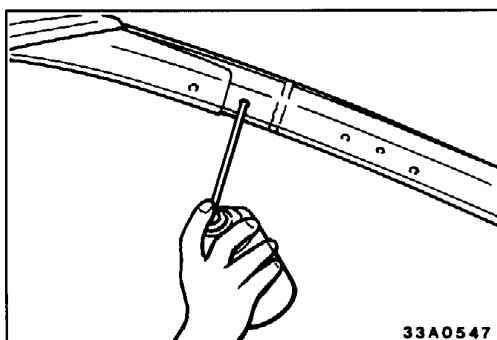
For the inner panel side, use the front pillar trim installation hole (B).



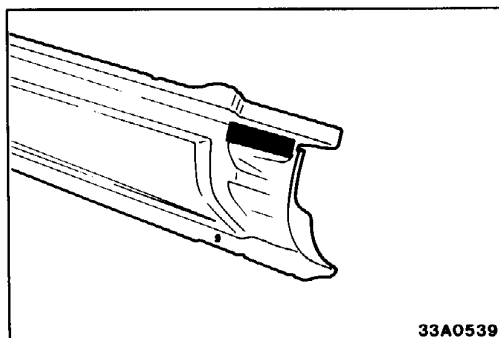
- (2) When butt-welding the part indicated by (C) in the illustration, cut the overlap part of the panel in a V shape so that bolt panels can be welded together, assuring better penetration during welding.



- (3) Apply a coating of silicon rubber sealer where shown in the illustration.



- (4) Apply a liberal amount of corrosion-prevention agent (using the front pillar trim installation hole) to the butt-weld locations.

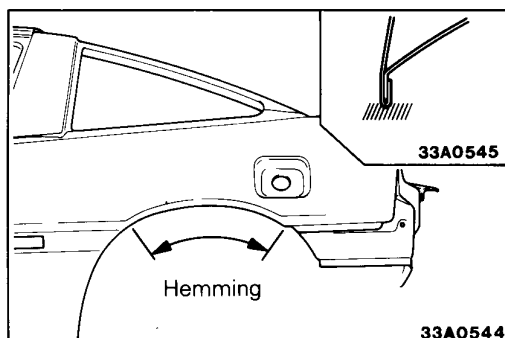


SIDE SILL

NOTES WITH REGARD TO REPAIR WORK

INSTALLATION

- (1) Apply a coating of silicon rubber sealer where shown in the illustration.



QUARTER PANEL, OUTER

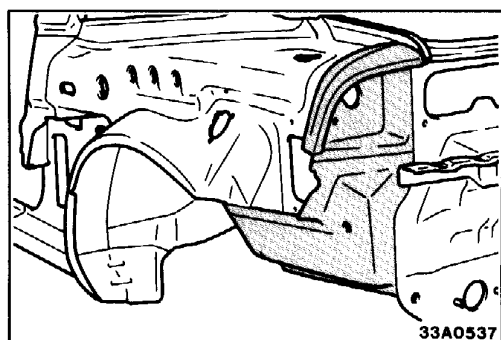
NOTES WITH REGARD TO REPAIR WORK

REMOVAL

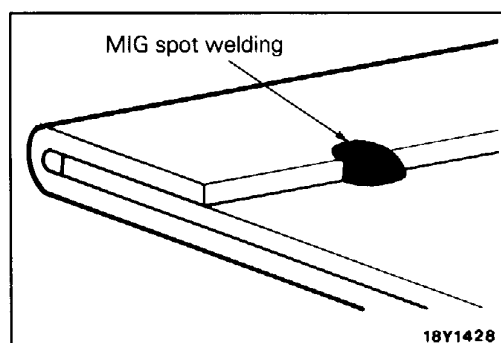
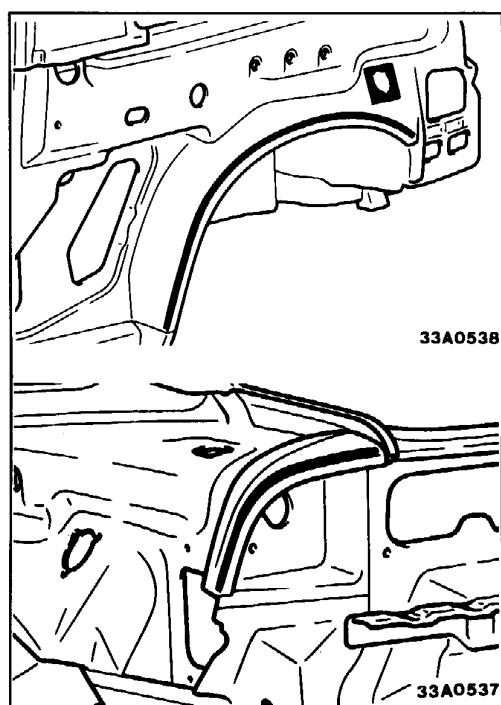
- (1) Be sure to cut weld point ③③, because it's difficult to find because of the finish after welding.
- (2) Because there is hemming at the wheel arch where shown in the illustration, grind away the bent part by using a grinder.

INSTALLATION

- (1) First install the rear lamp housing and quarter outer lower extension to the body, and then install the quarter panel (outer).



- (2) Apply a coating of silicon rubber sealer at the body side where shown in the illustration.



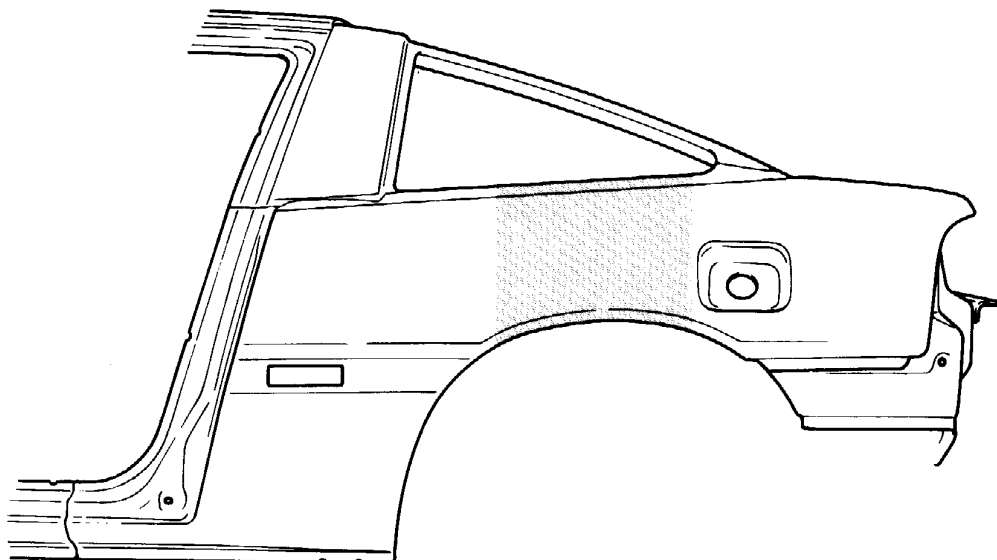
- (3) After completion of hemming, make MIG spot welds at the edge of the flange of the quarter panel (outer), at intervals of approximately 50 mm (1.97 in.). (Weld point: ⑮)

3-76 WELDED PANEL REPLACEMENT – Quarter Panel, Outer/Rear Floor Pan

Reference: Depending upon the scope of the damage, the part may be replaced.

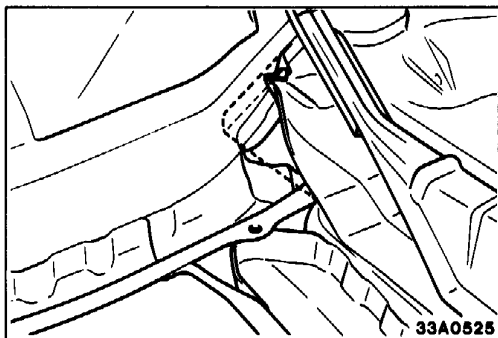
Caution

- Avoid the installation holes for the rear spoiler, etc.



33A0193

 : Range within which cutting is possible



33A0525

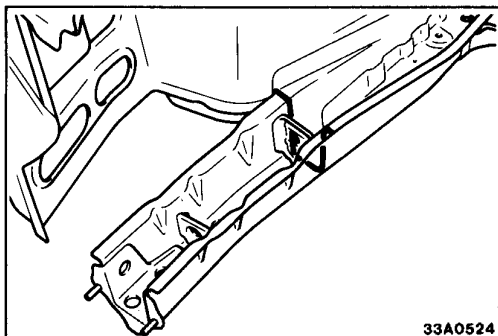
REAR FLOOR PAN

NOTES WITH REGARD TO REPAIR WORK

- In order to facilitate the removal and installation of the rear floor pan, bend both ends of the rear seat pan as shown in the illustration.

Caution

- Bend the rear seat pan the minimum necessary only.



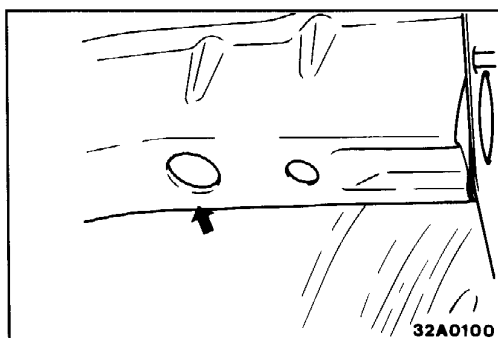
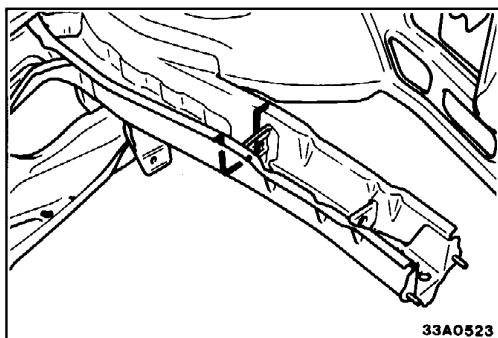
REAR FLOOR SIDEMEMBER

NOTES WITH REGARD TO REPAIR WORK

- Cut the rear floor sidemember where shown in the illustration.

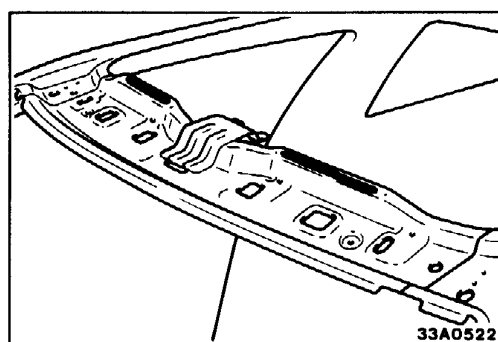
NOTE

If the cut is made at a place where there is a reinforcement, make the butt-welding from both sides (inner and outer) of the sidemember.



INSTALLATION

- (1) Apply a liberal amount of corrosion-prevention agent (using the hole indicated by the arrow in the illustration) to the butt-weld locations.

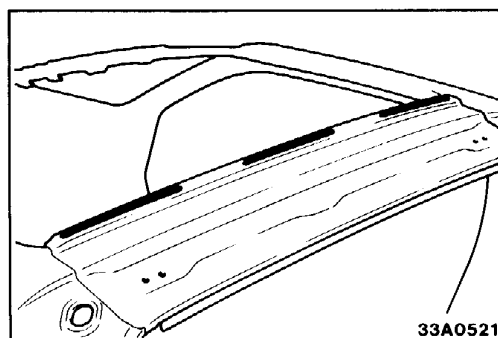


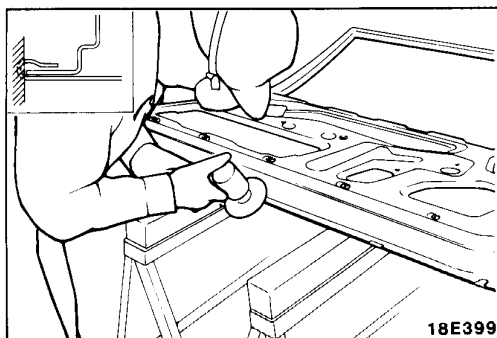
ROOF PANEL

NOTES WITH REGARD TO REPAIR WORK

INSTALLATION

- (1) Apply a coating of silicon rubber sealer where shown in the illustration.





FRONT DOOR OUTER PANEL

NOTES WITH REGARD TO REPAIR WORK

- Do the welding of the outer panel and the inner panel by making MIG spot welds to the bent flange part of the outer panel at intervals of approximately 50 mm (2 in.).

REMOVAL

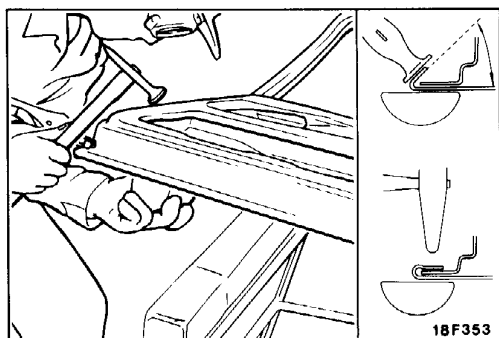
- (1) Use an air grinder to grind off the hemming edge of the perimeter of the outer panel.

INSTALLATION

- (1) Install the outer panel to the inner panel.

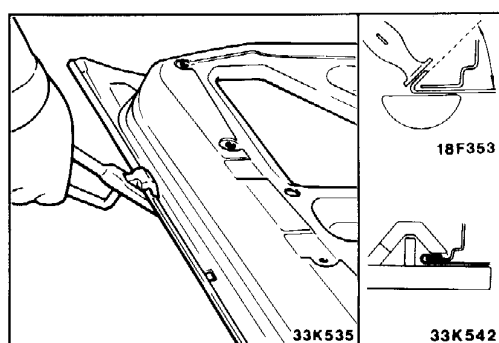
Caution

- **Clamp backings onto the outside of the outer panel in order to prevent scratching it.**



- (2) Using either a hammer and dolly or a hammer and hemming tool, do the hemming work for the entire circumference of the outer panel.

- Using a hammer and dolly.



- Using a hammer and hemming tool

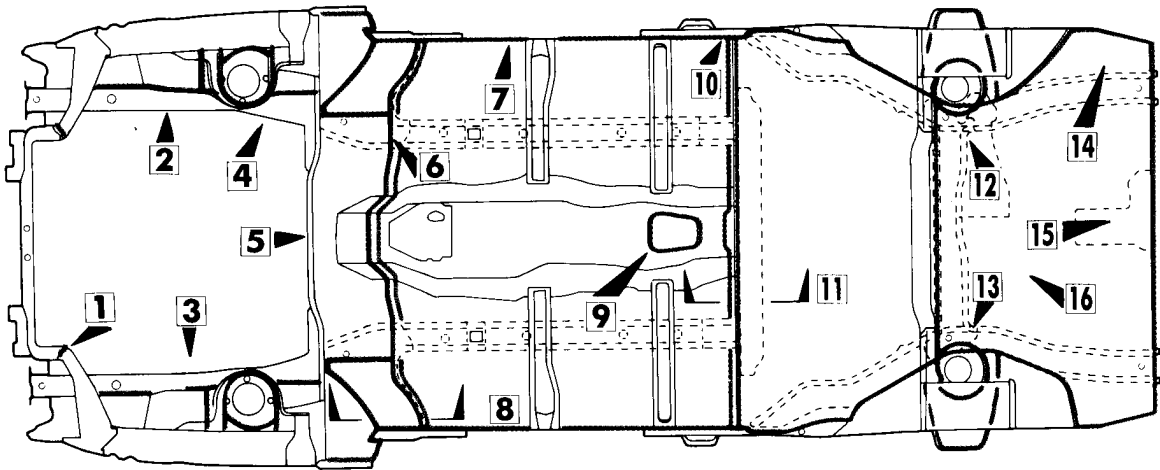
NOTE

Do the hemming work by folding the edge in two stages. When completed, the outer perimeter edge should be well rounded.

4 CORROSION PROTECTION

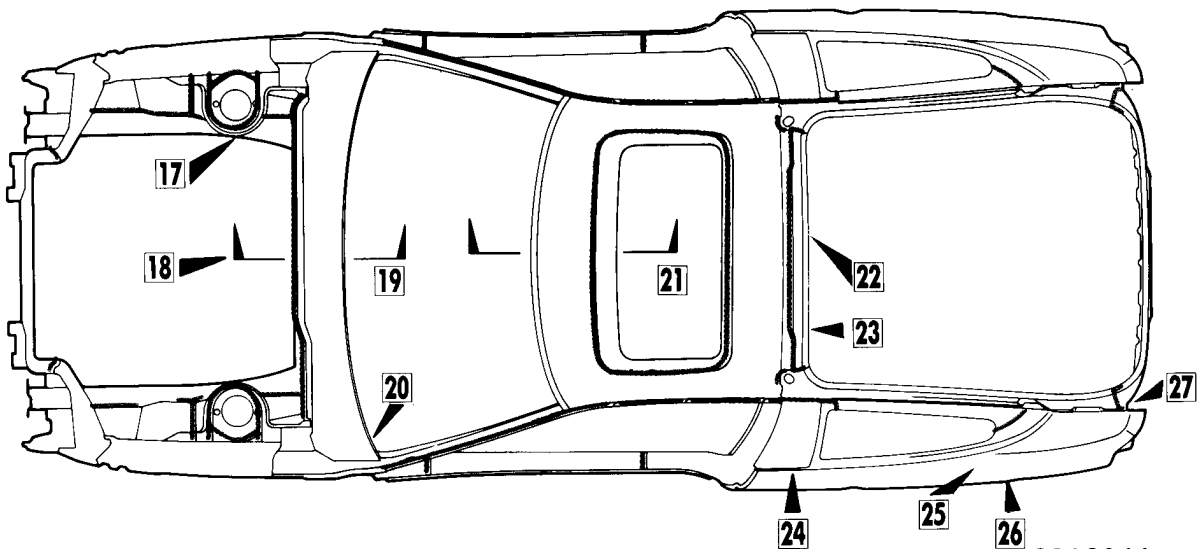
BODY SEALING LOCATIONS	4-2
FLOOR	4-2
UPPER BODY	4-2
SIDE BODY	4-2
HOOD, DOOR AND LIFTGATE	4-3
WAX INJECTION LOCATIONS	4-10
ANTICORROSION PRIMER LOCATIONS	4-10
UNDERCOAT APPLICATION LOCATIONS	4-11
SEALING TAPE LOCATIONS	4-13
UNDERBODY ANTI-CORROSION	
AGENT LOCATIONS	4-14

BODY SEALING LOCATIONS
FLOOR



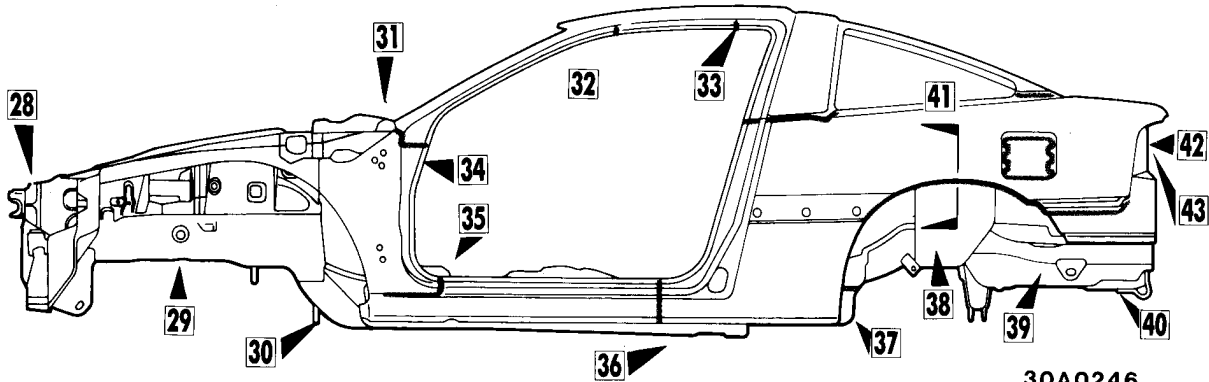
30A0245

UPPER BODY



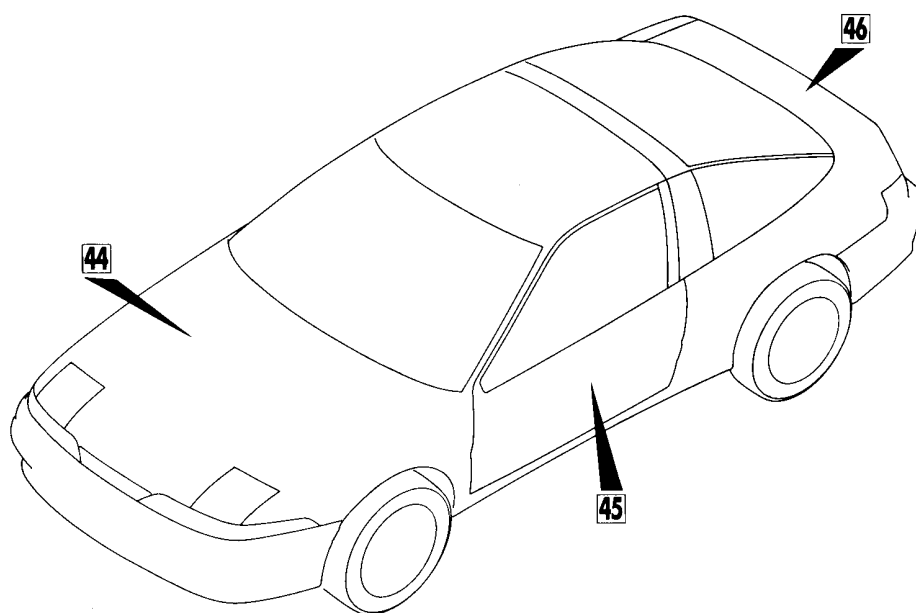
30A0244

SIDE BODY



30A0246

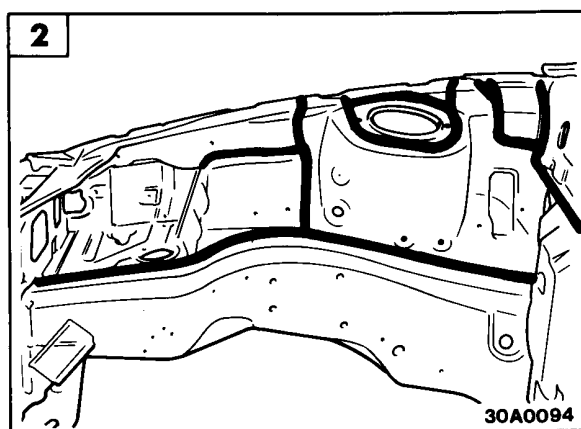
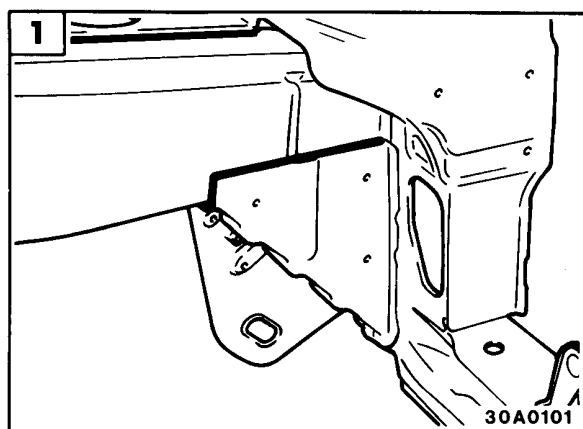
HOOD, DOOR AND TAILGATE



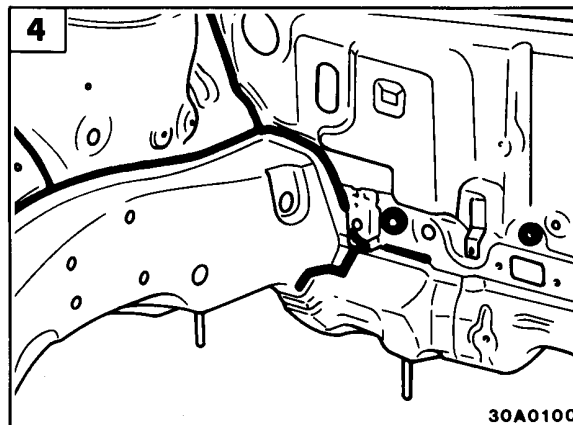
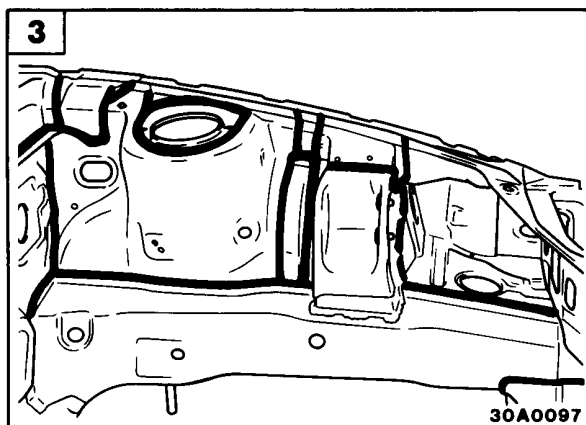
31A0179

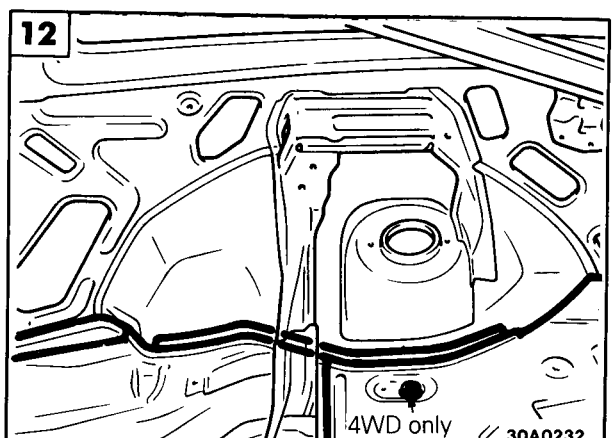
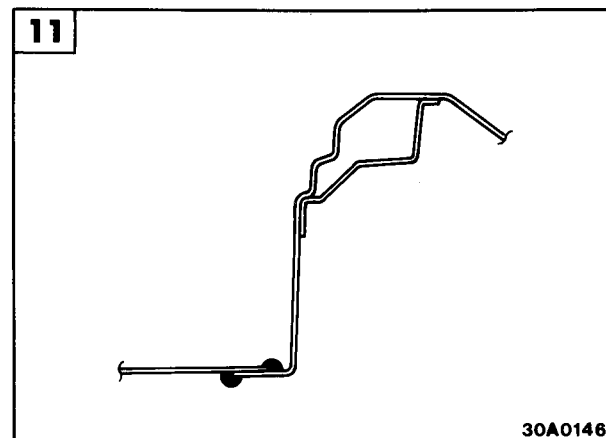
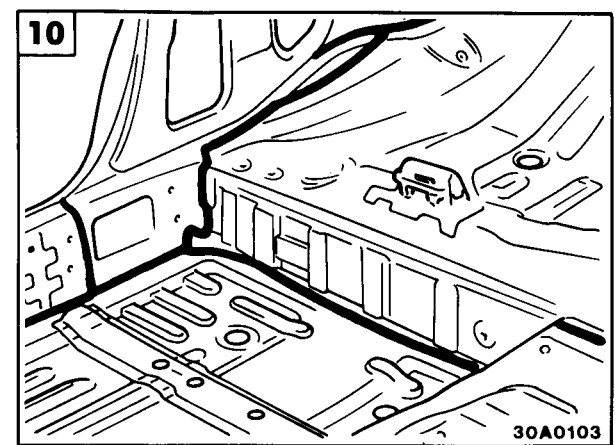
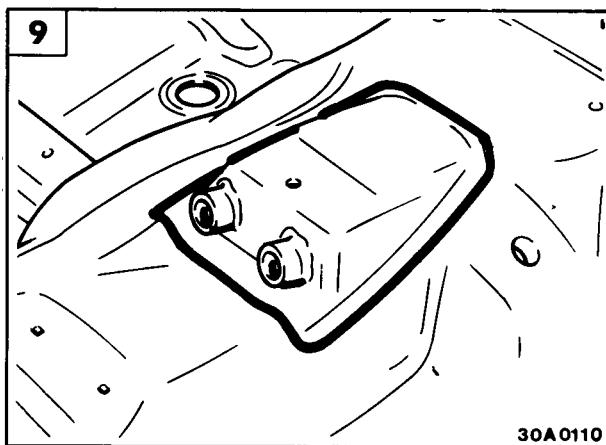
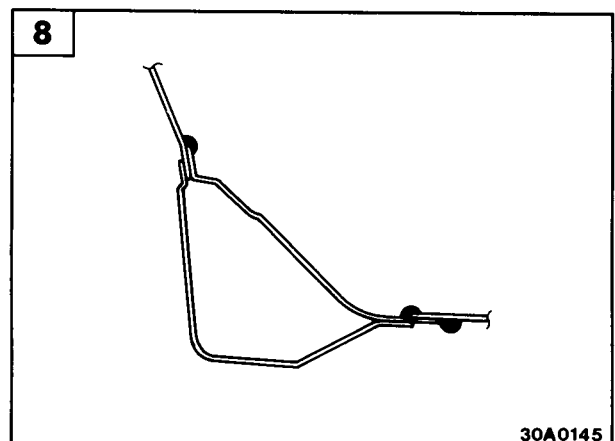
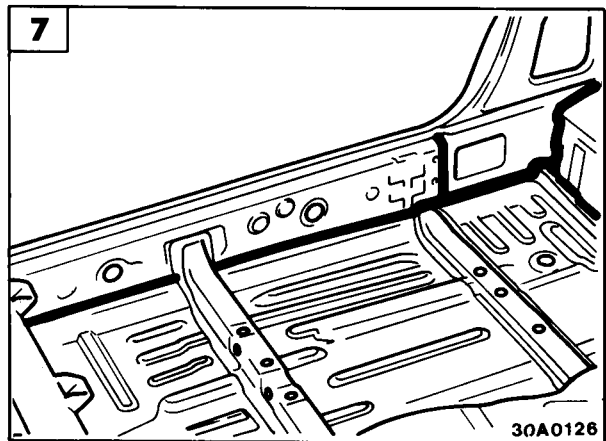
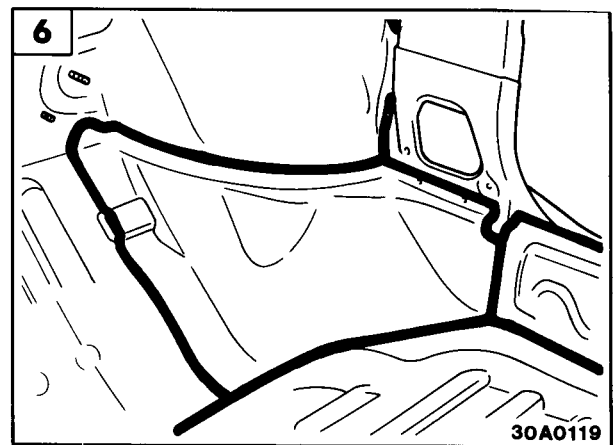
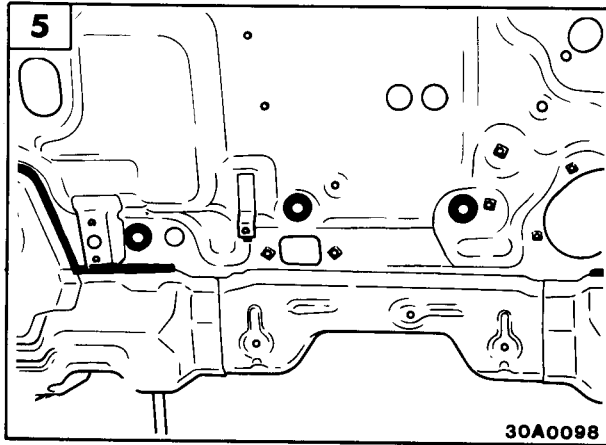
NOTE

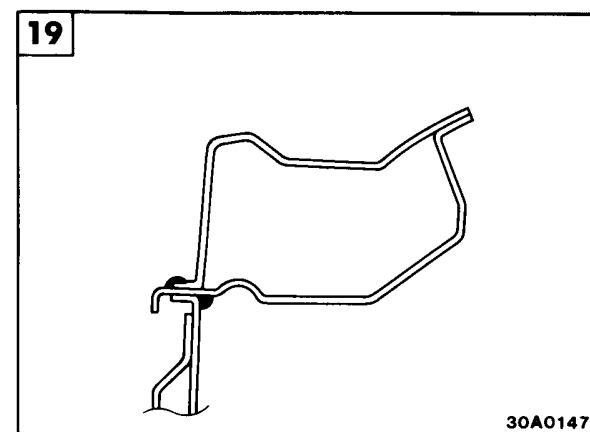
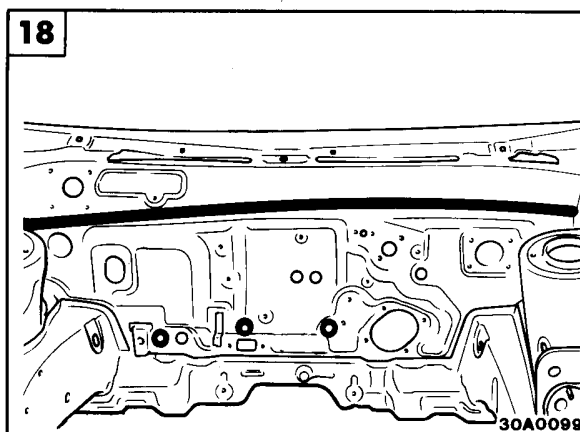
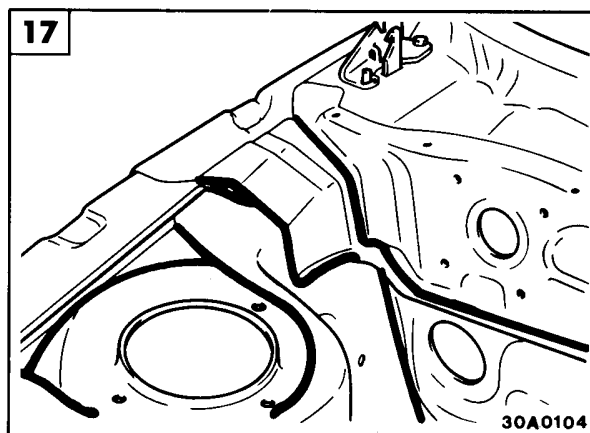
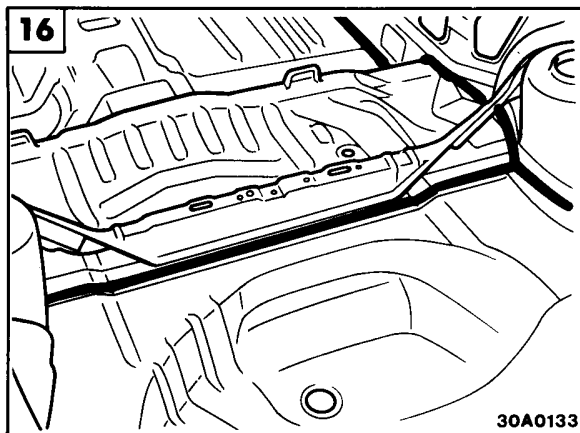
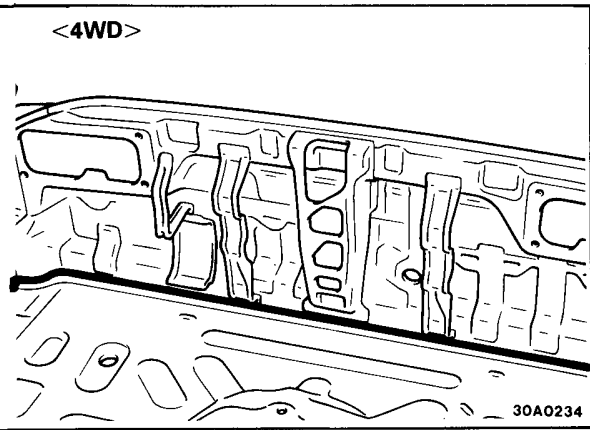
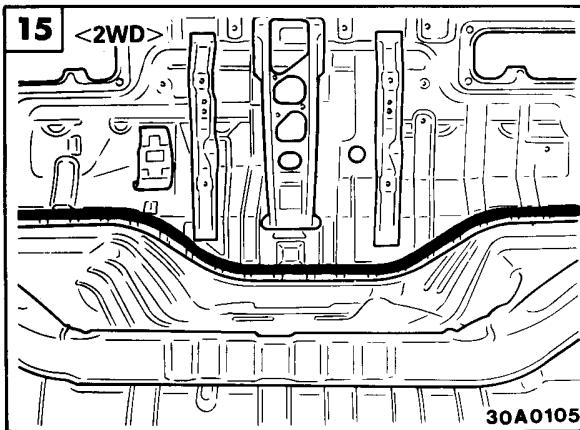
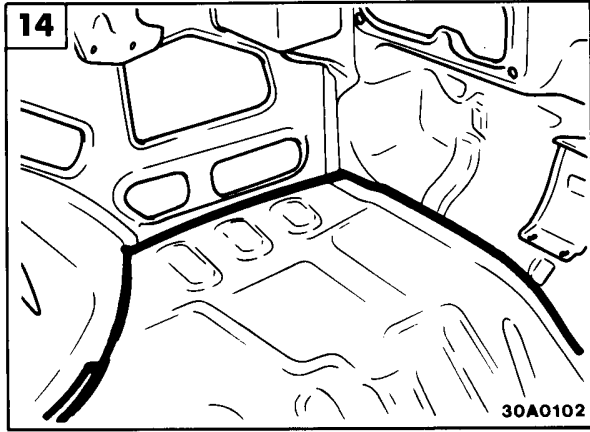
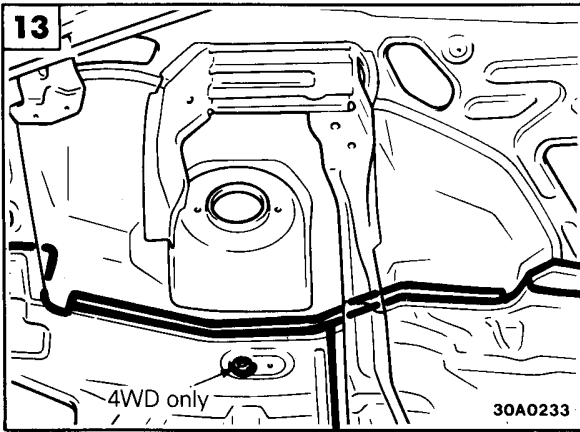
For external surfaces such as the drip channels, pillars, clinches, etc., where the sealant application can be seen directly, and where it will be necessary that the appearance of the application be attractive, apply the sealant so that it is smooth and level, or wipe the surface after applying the sealant.

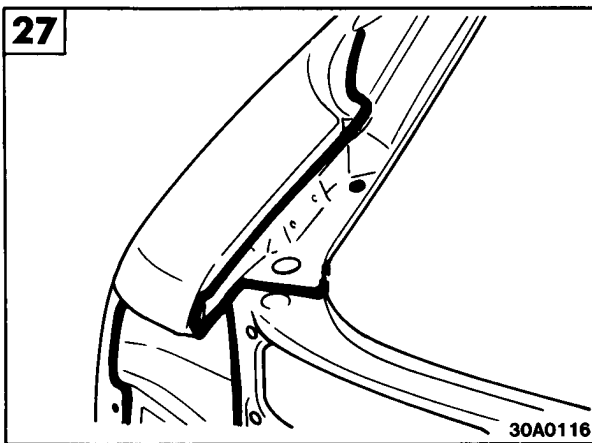
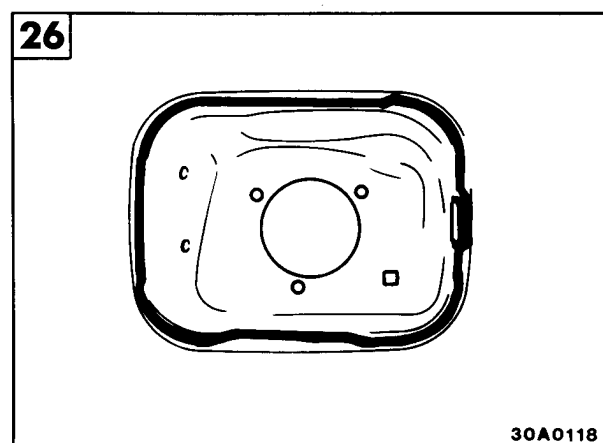
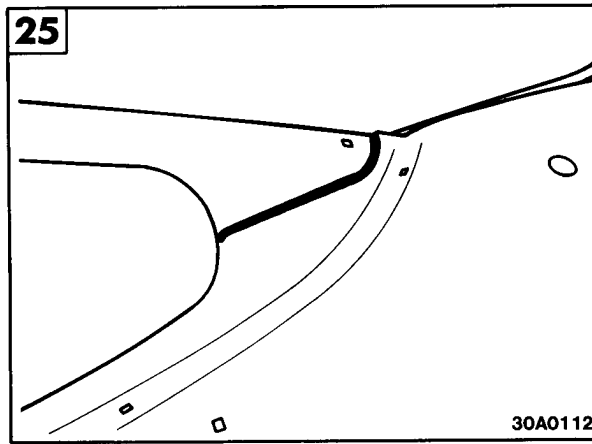
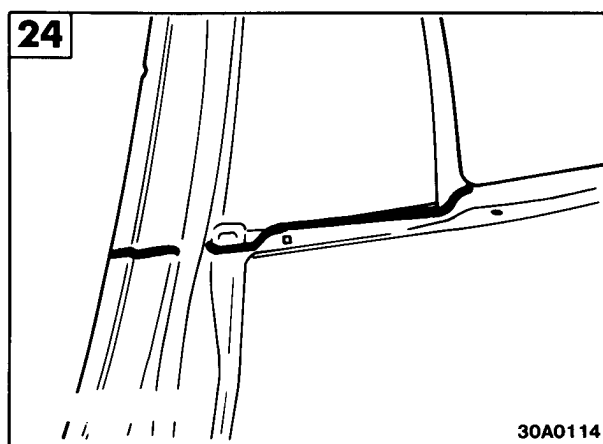
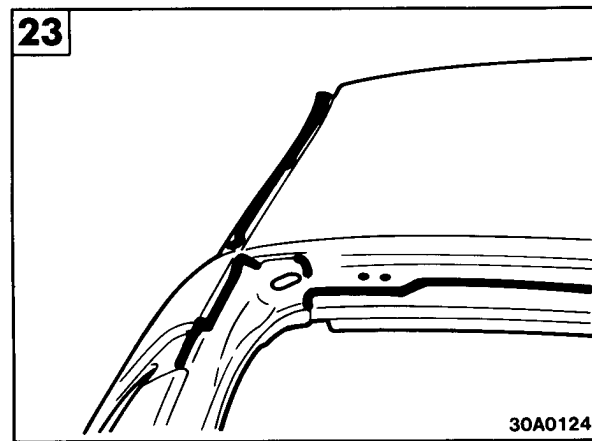
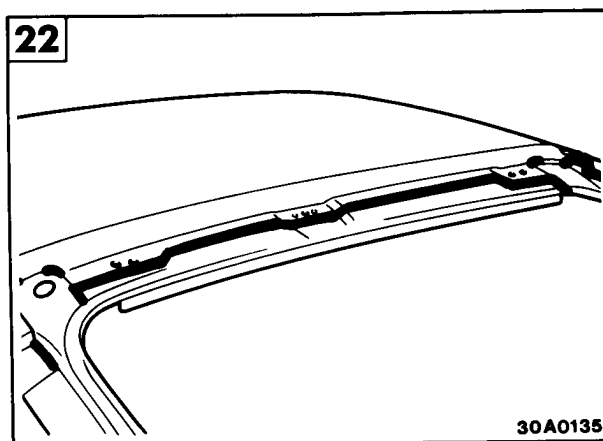
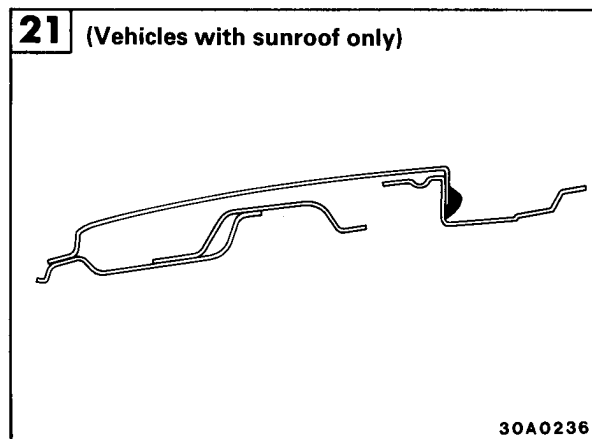
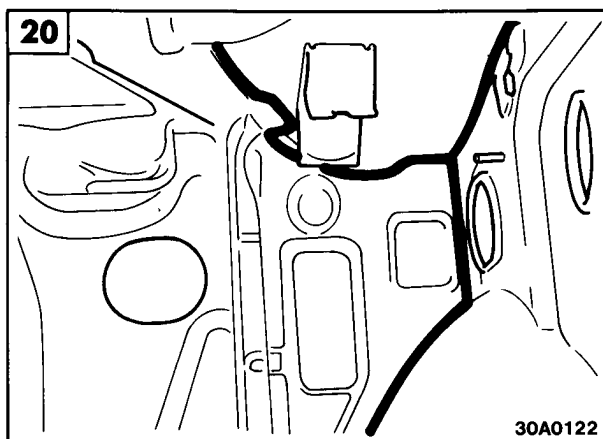


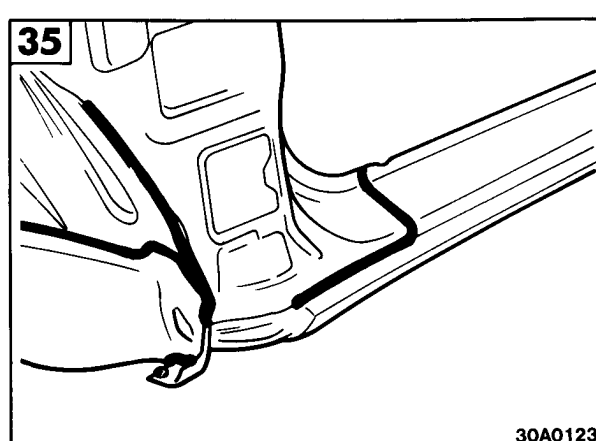
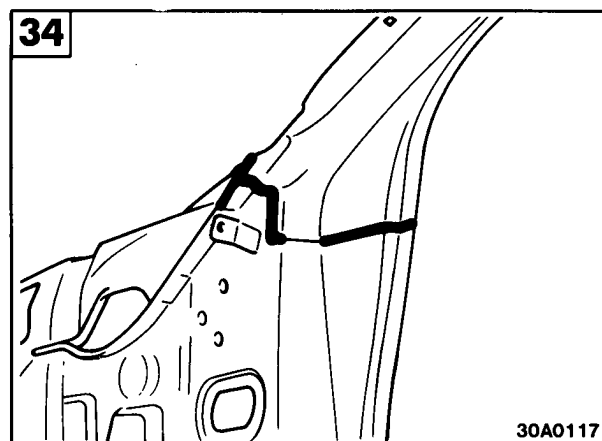
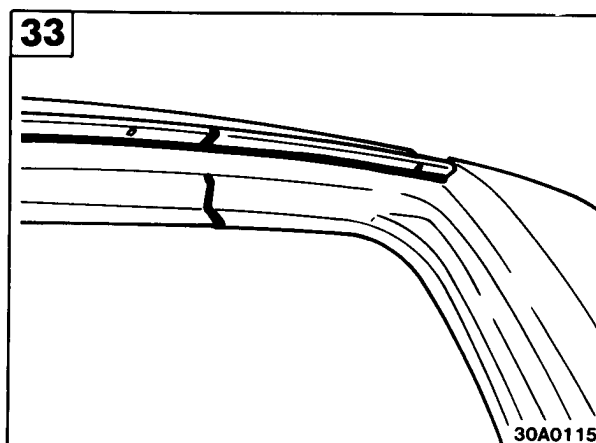
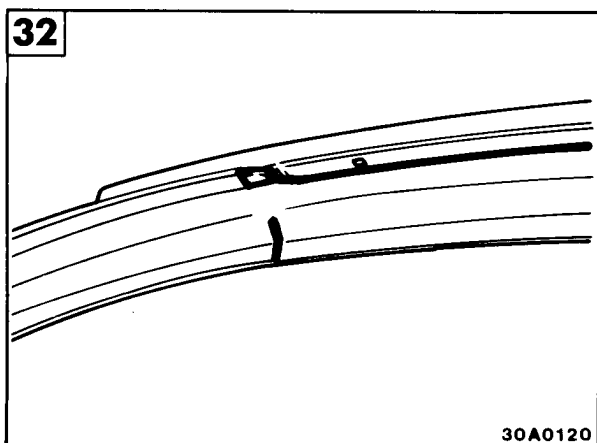
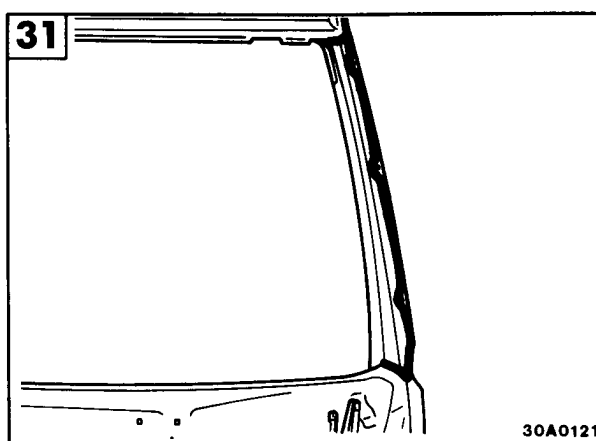
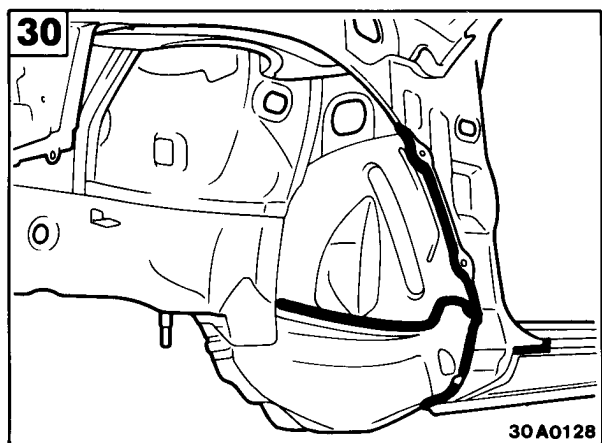
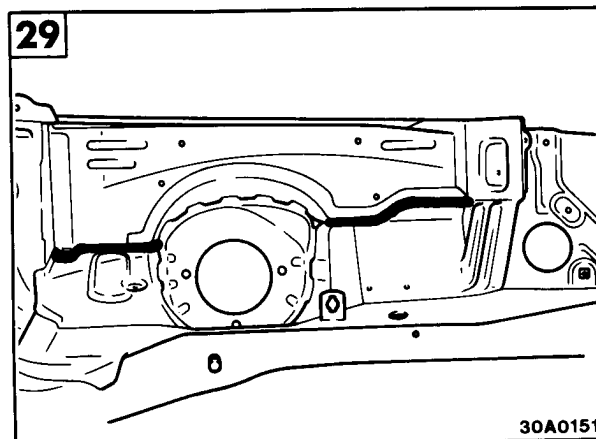
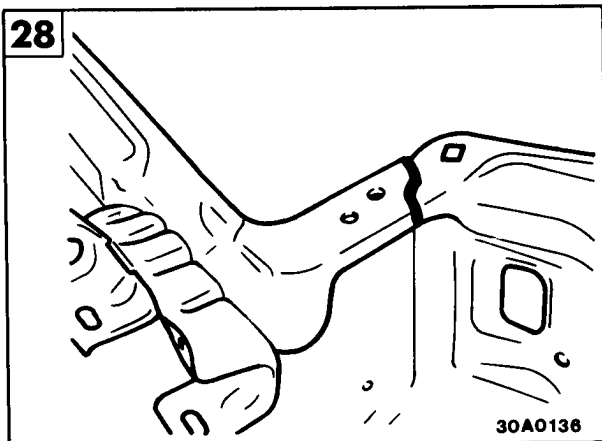
4

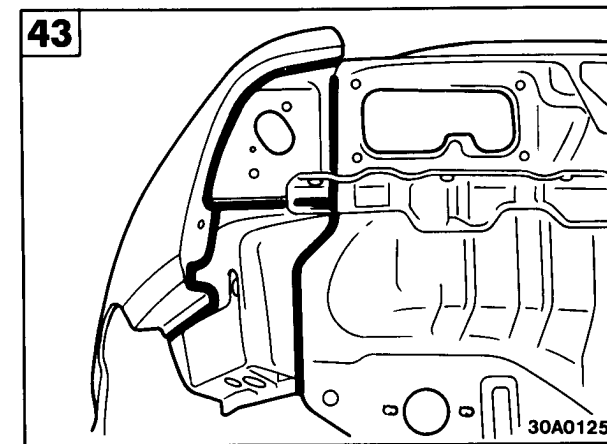
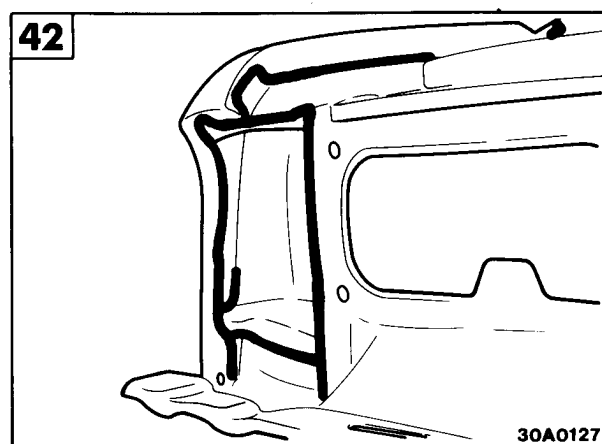
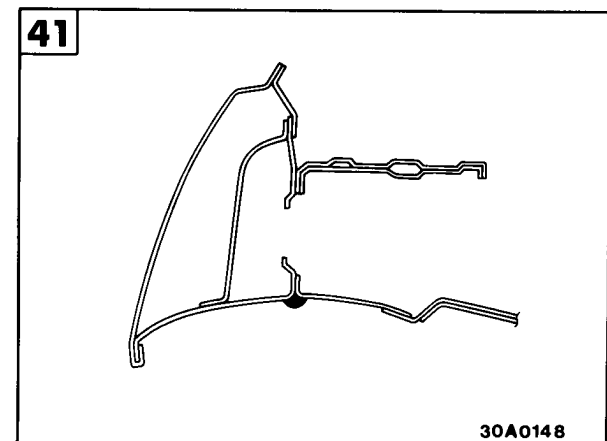
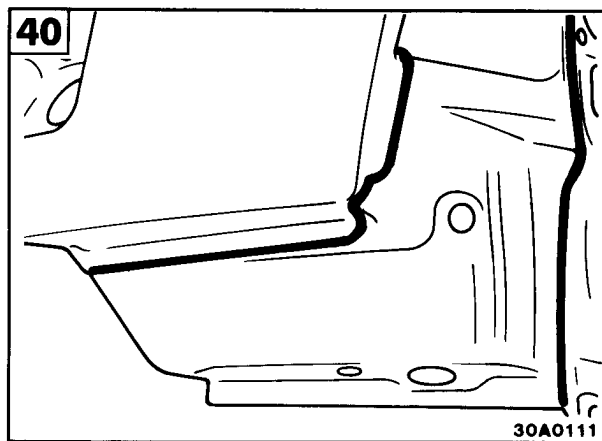
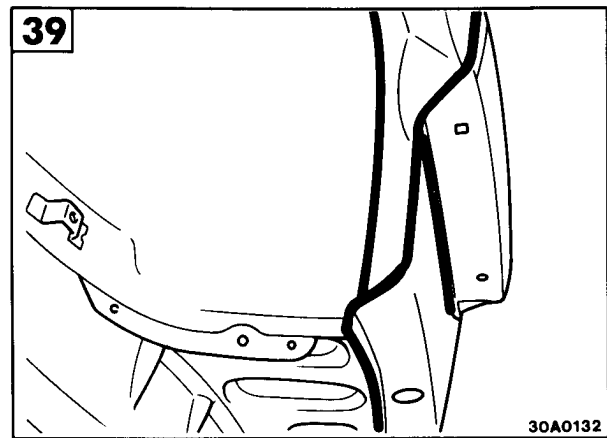
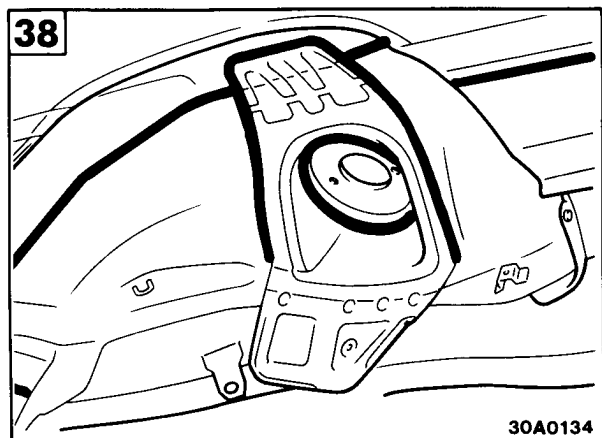
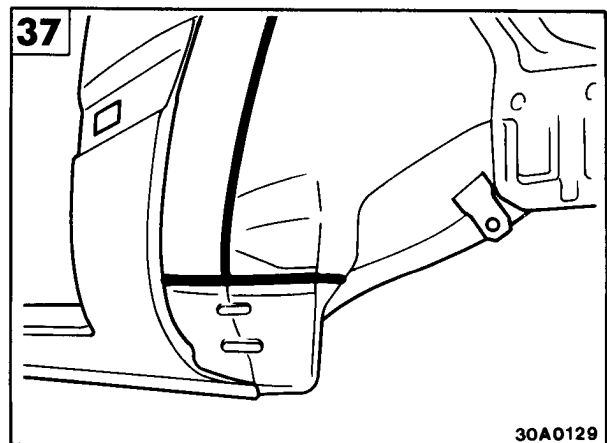
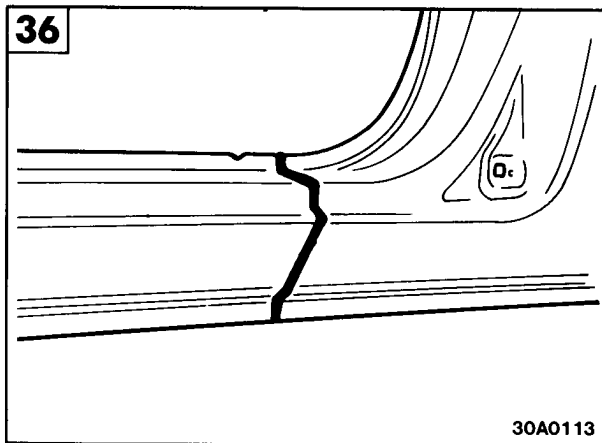


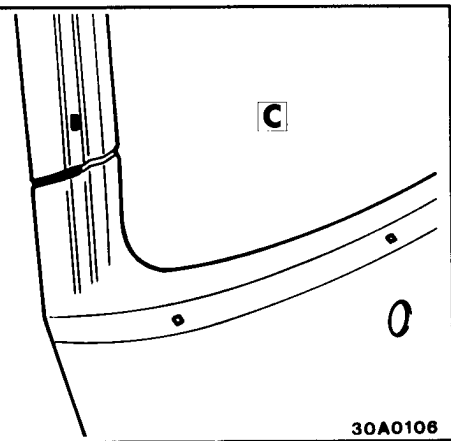
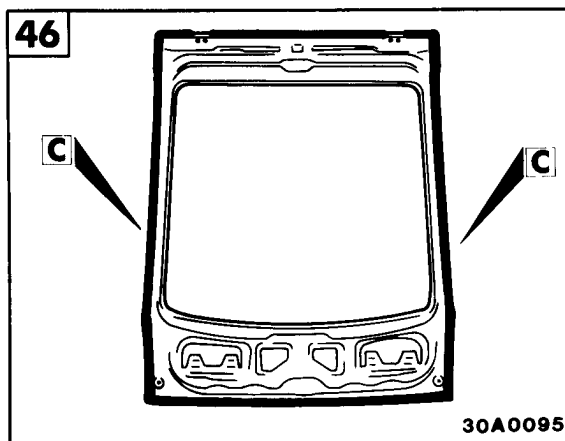
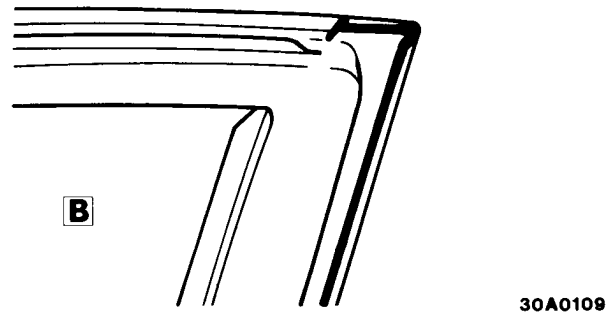
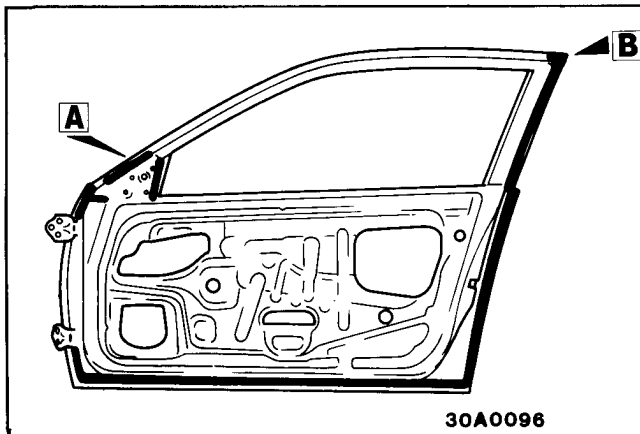
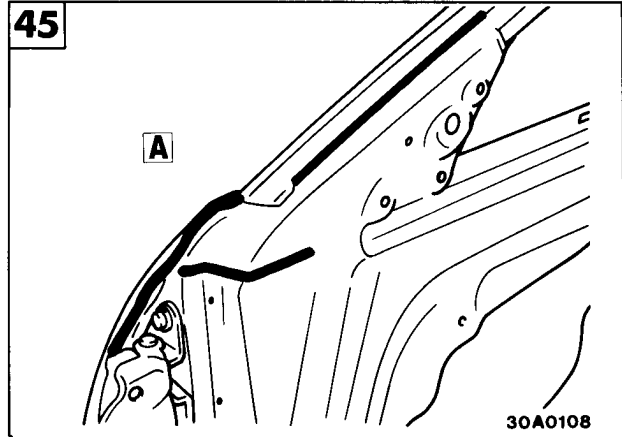
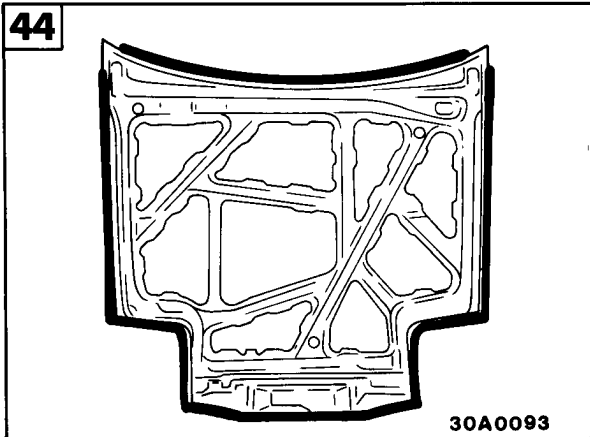












WAX INJECTION LOCATIONS

In order to provide greater corrosion resistance, wax injection has been performed for the arched part of rear wheels. If quarter outer panel is replaced, wax injection must be performed for the new parts.

Recommended wax:

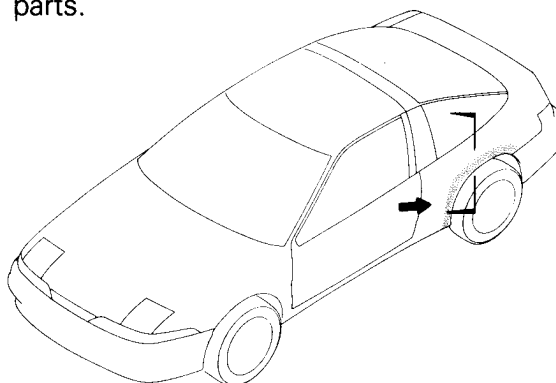
- Tectyl 506, 506T or ML
- Waxoyl
- Dinitrol 3122 or 3654-1
- Mercasol 831-ML
- Terotex
- HV200 PLUS or HV300

NOTES

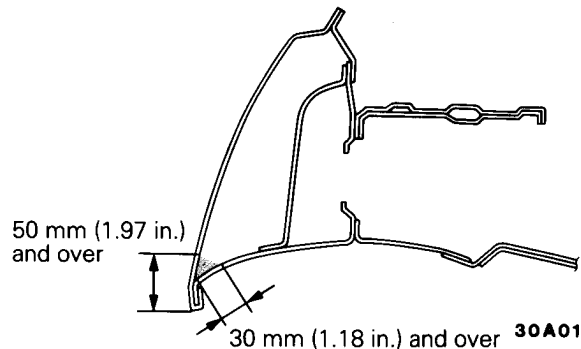
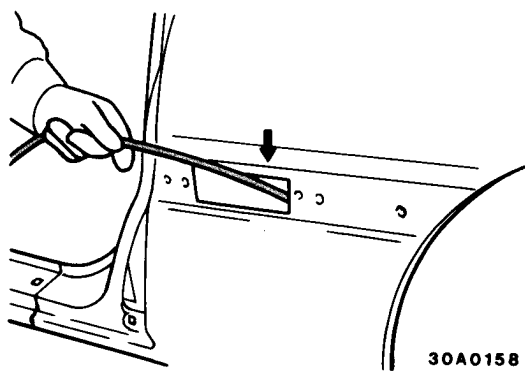
(1) : Nozzle insertion openings

NOTES REGARDING WAX INJECTION WORK

- Be careful that the wax does not get onto other parts.



31A0179

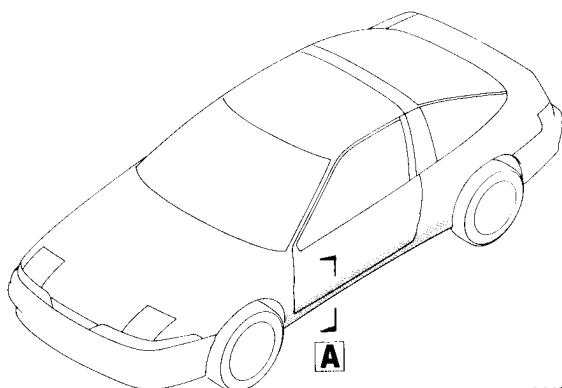
Application surfaces	Nozzle insertion opening (places marked in )
 50 mm (1.97 in.) and over 30 mm (1.18 in.) and over 30A0168	 30A0158

ANTICORROSION PRIMER LOCATIONS

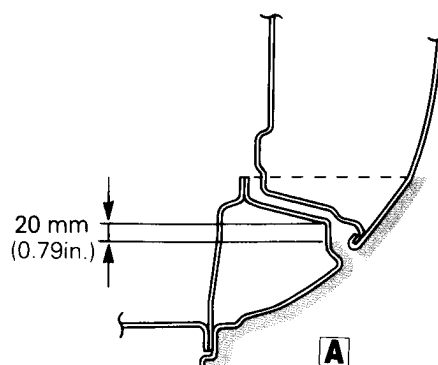
An anticorrosion primer has been applied to the side sill outer panel, the lower edge of the front fender and the lower edge of the outer quarter panel for the purposes of corrosion prevention and

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.

No.	Primer name	Recommended primer	Coating thickness
(1)	Rocker panel primer	Glasurit FX89-7330 (polyester basis) or FT90-7103 (water basis) or equivalent	400 μ or more.



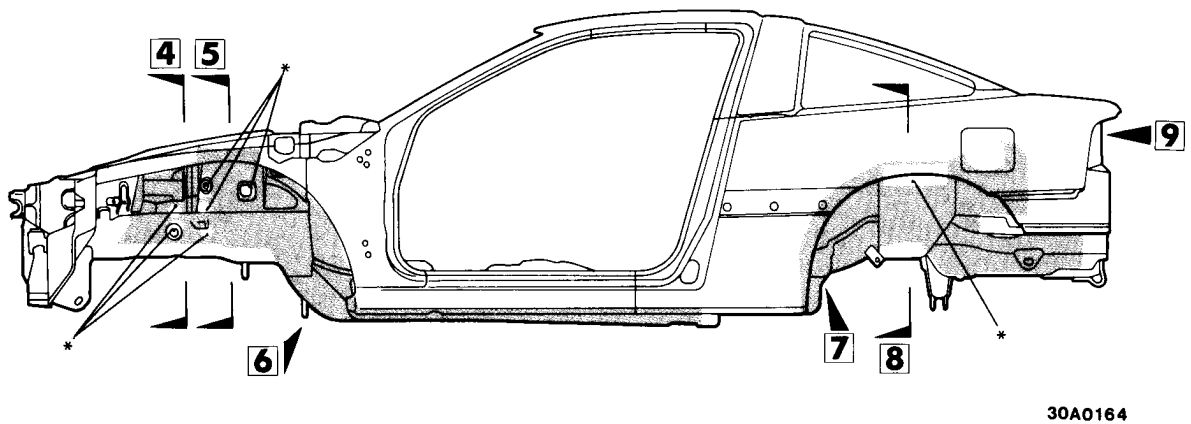
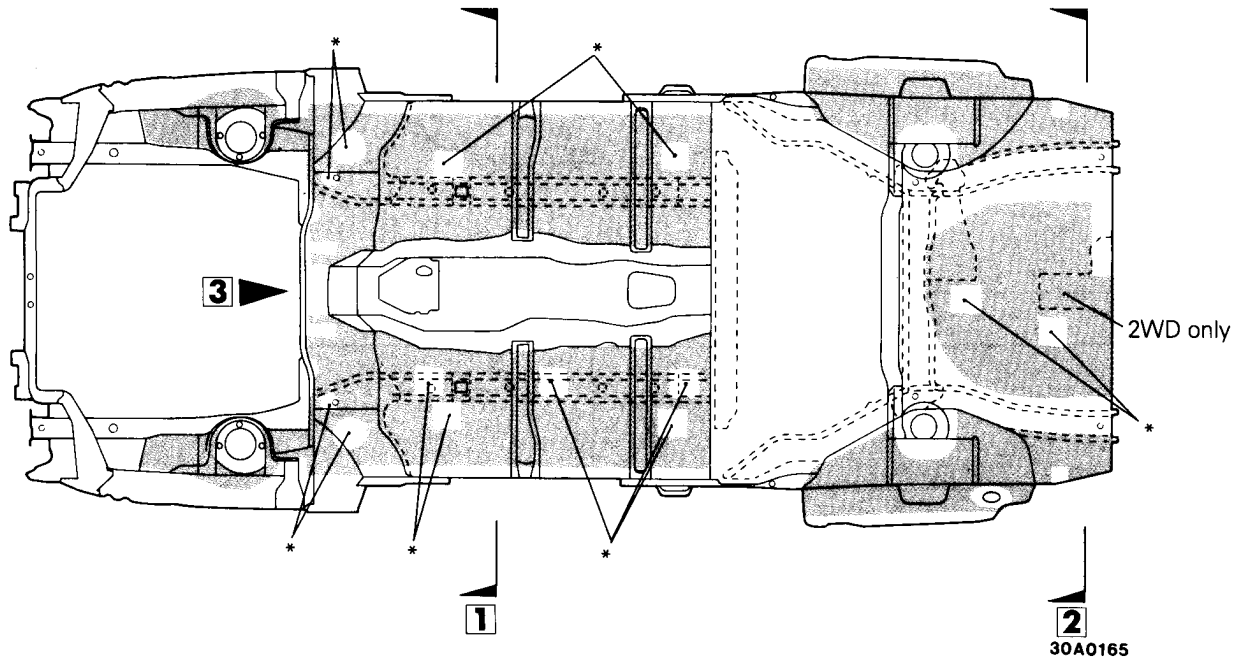
31A0179



30A0162

UNDERCOAT APPLICATION LOCATIONS

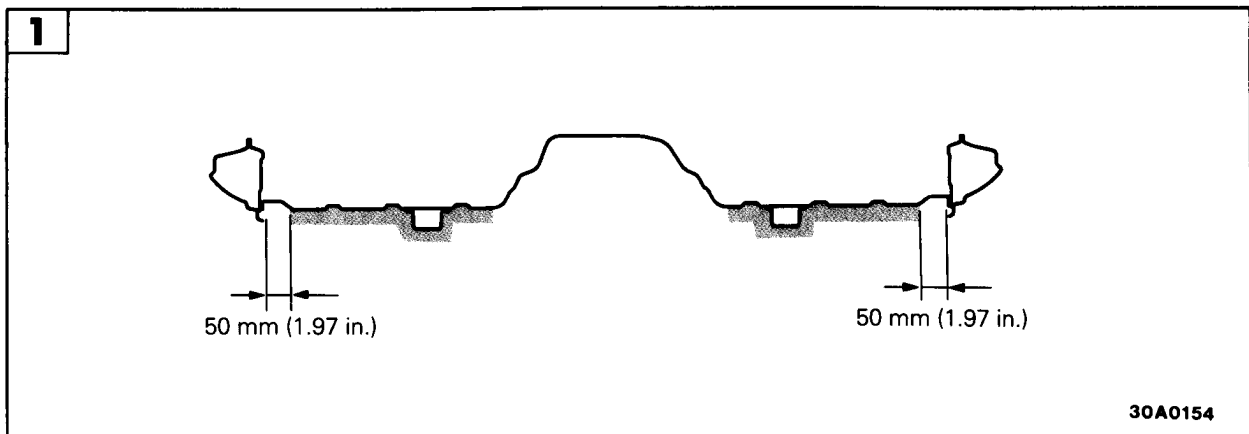
In order to provide rust, corrosion, chipping, and vibration resistance, an undercoat is applied to certain areas of the underbody. After completing body repairs, restore this undercoat if necessary.

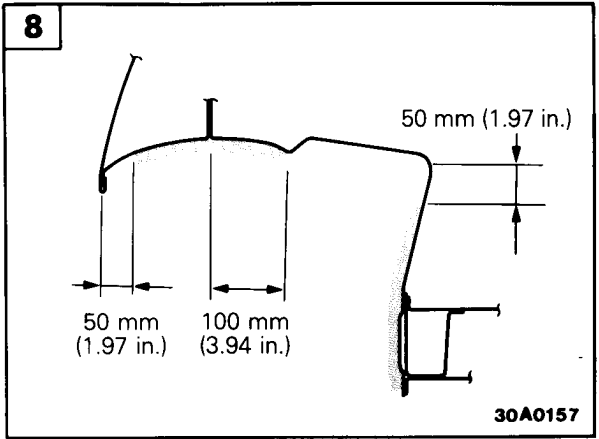
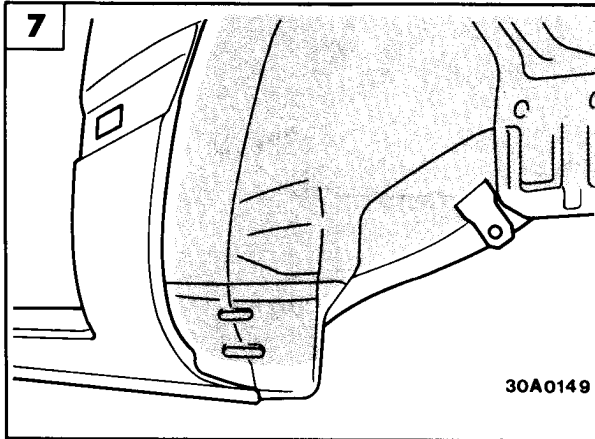
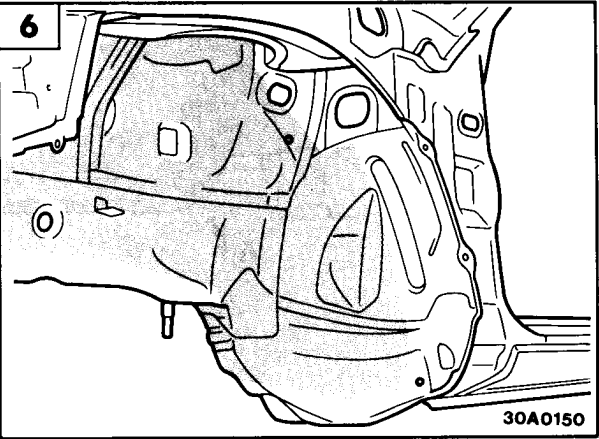
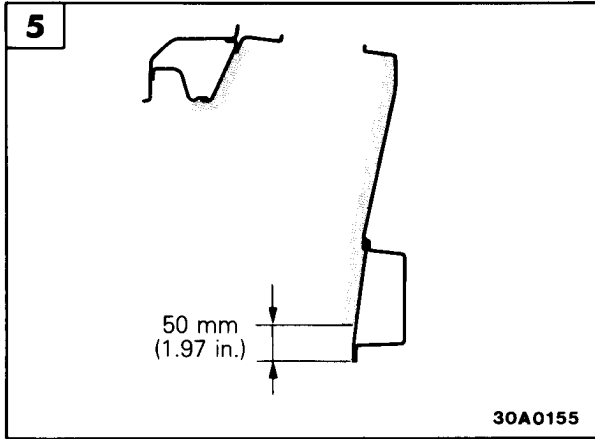
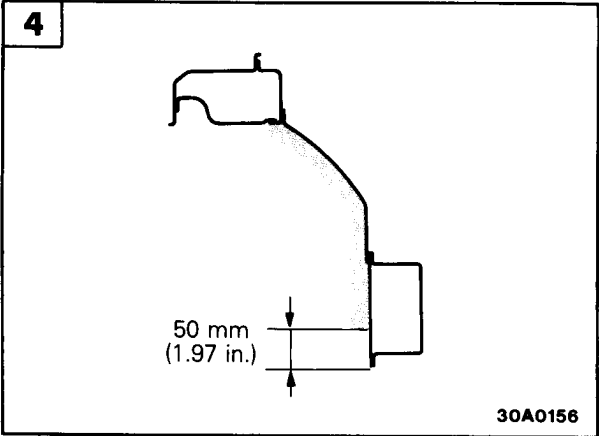
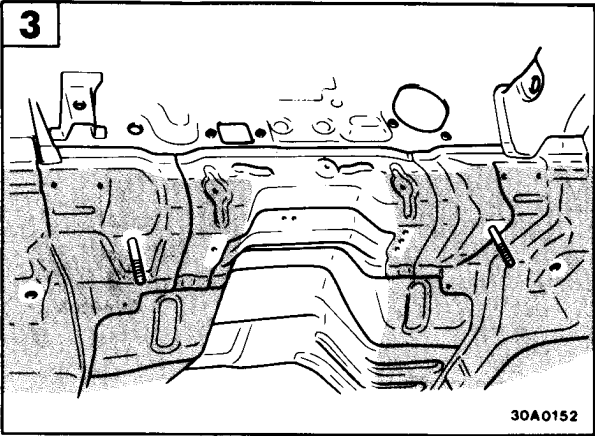
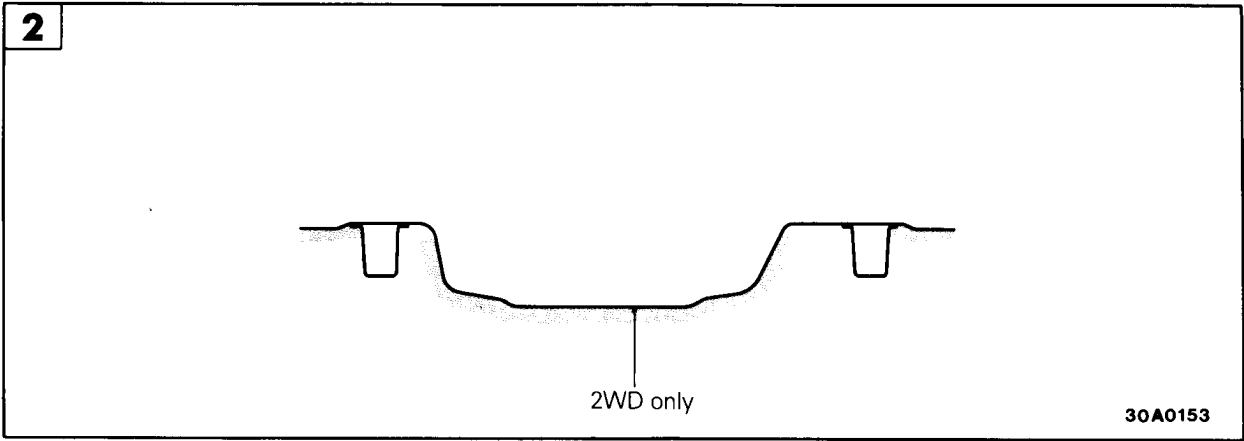


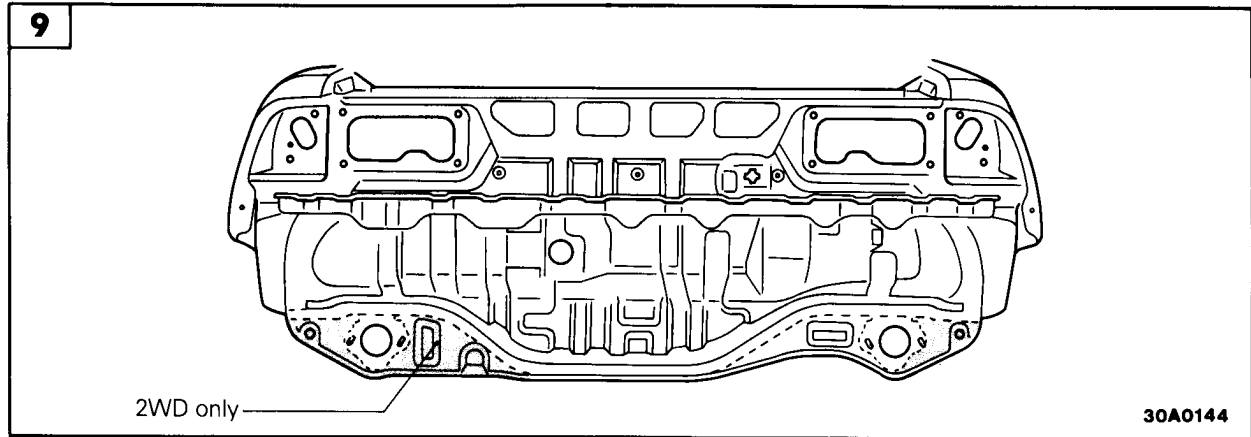
NOTE

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

■ : Undercoating [film thickness of at least 0.8mm (0.03in.)]

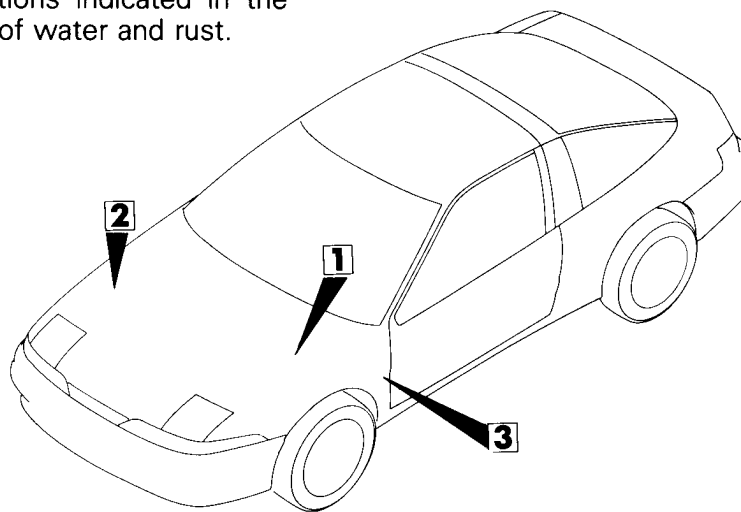




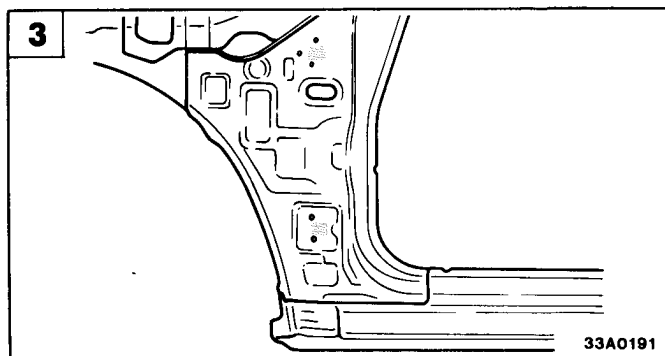
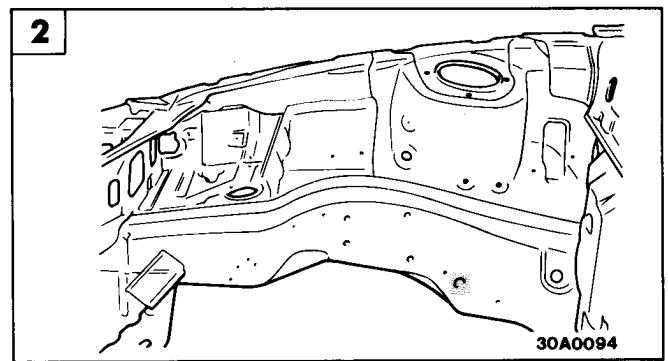
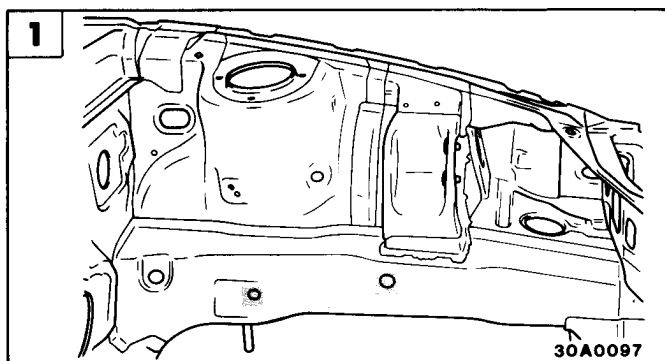


SEALING TAPE LOCATIONS

Apply sealing tapes to locations indicated in the illustrations to prevent entry of water and rust.



31A0179

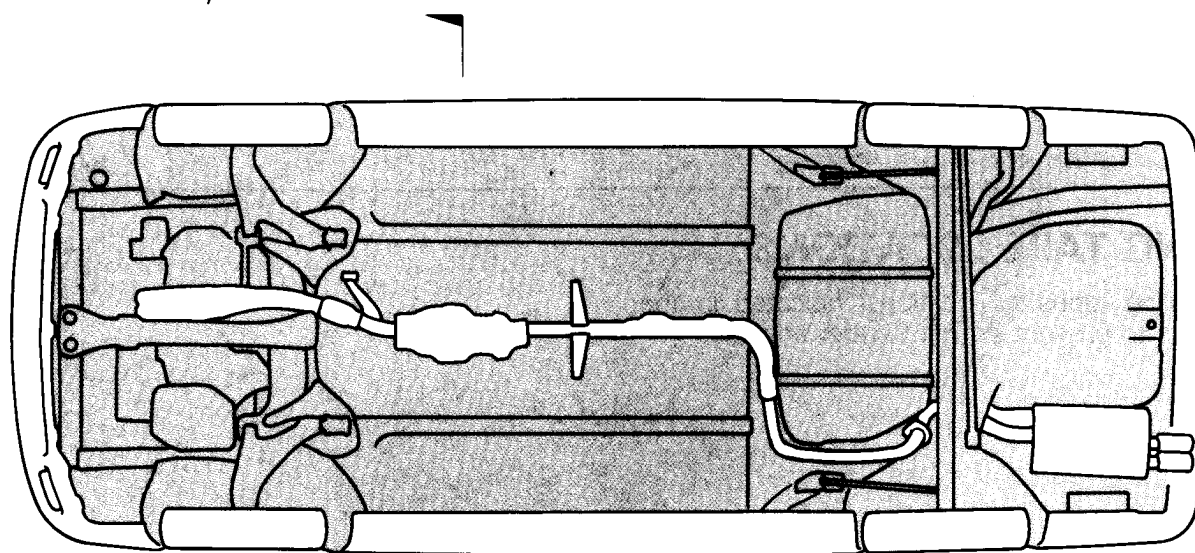


UNDERBODY ANTICORROSION AGENT LOCATIONS

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



1

10A0013



1

■: 100 μ or more

30A0154

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.

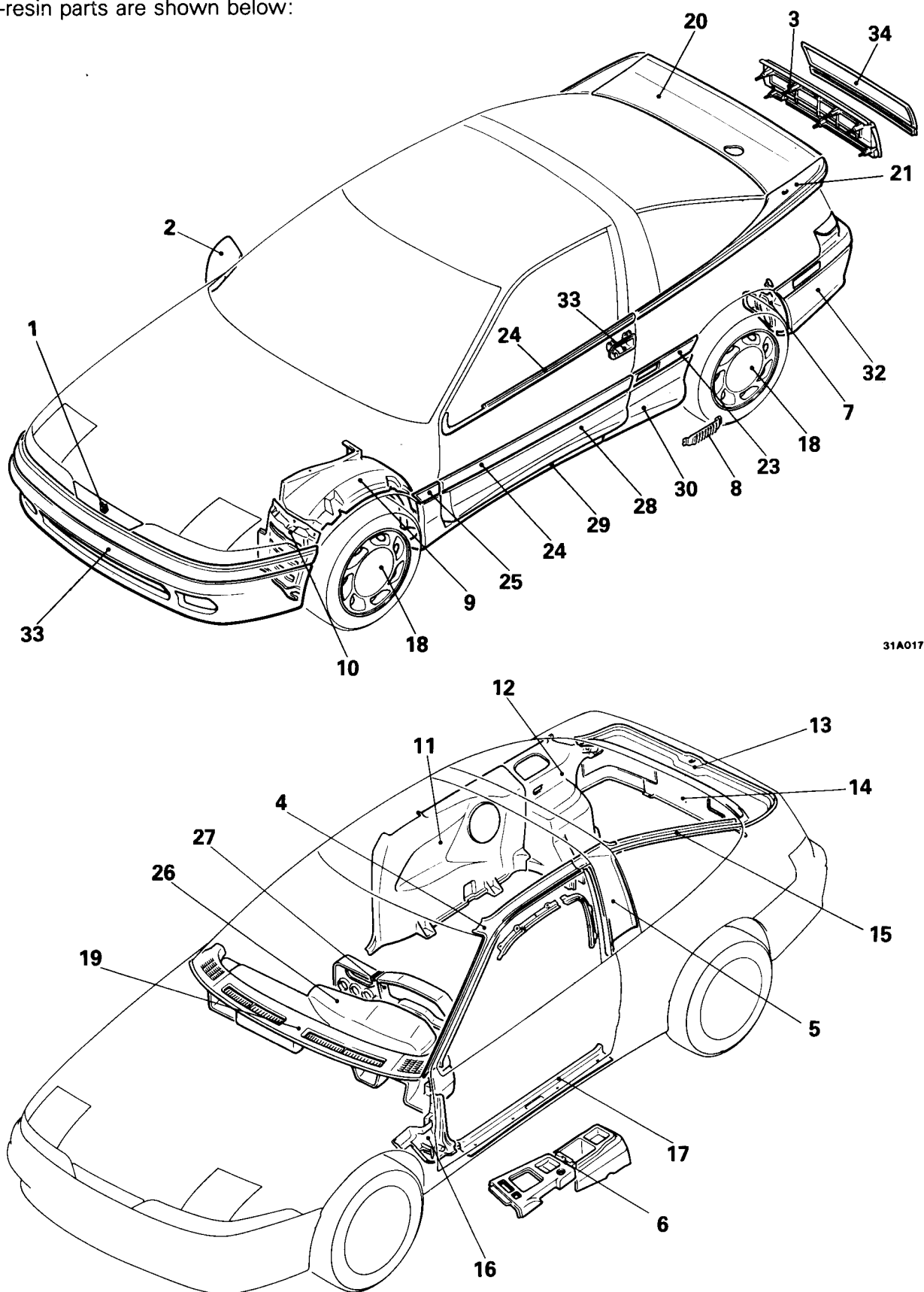
5

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:

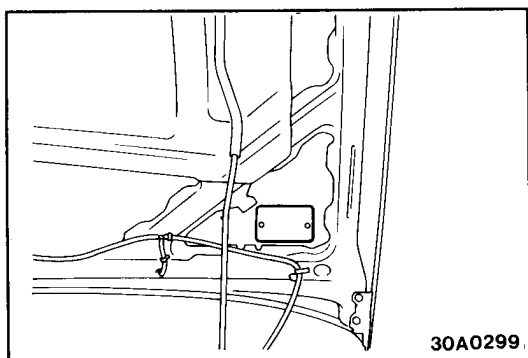


No.	Part name	Name of resin	Abbreviation
1	Front garnish	ABS resin	ABS
2	Door mirror housing		
3	Base garnish		
4	Front pillar trim		
5	Center pillar trim		
6	Floor console		
5	Center pillar trim	Polypropylene	PP
7	Rear splash shield		
8	Air outlet garnish		
9	Front splash shield		
10	Front splash shield extension		
11	Quarter trim		
12	Rear side trim		
13	Tailgate trim		
14	Rear end trim		
15	Rear pillar trim		
16	Cowl side trim		
17	Scuff plate		
18	Wheel cover	Polyphenylene oxide	PPO
19	Instrument panel		
20	Rear air spoiler, center		
21	Rear air spoiler, side		
22	Door air spoiler		
23	Quarter protector moulding	Polyvinyl chloride	PVC
24	Door protector moulding		
25	Fender protector moulding		
26	Instrument pad	Polyvinyl chloride/Urethane	PVC/U
27	Cluster panel		
28	Door side air dam	Polyurethane	PUR
29	Side air dam		
30	Quarter side air dam		
31	Front bumper face	Urethane	U
32	Rear bumper face		
33	Outside door handle	Polyamide 6	PA6
34	Outer garnish	Polyacrylate	PMMA

NOTE: The "/" symbol indicates manufacture from two types of materials.

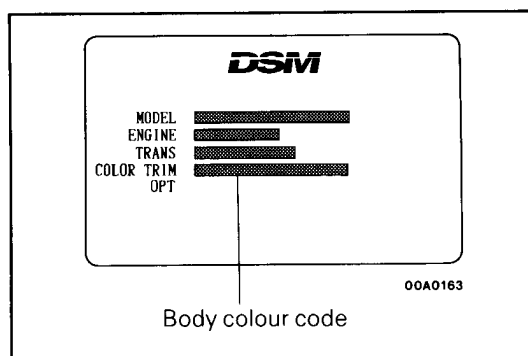
6 BODY COLOUR

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



BODY COLOUR CODE

The body colour code is imprinted on the vehicle information code plate, which is mounted on the hood.



BODY COLOUR CODE INTERPRETATION

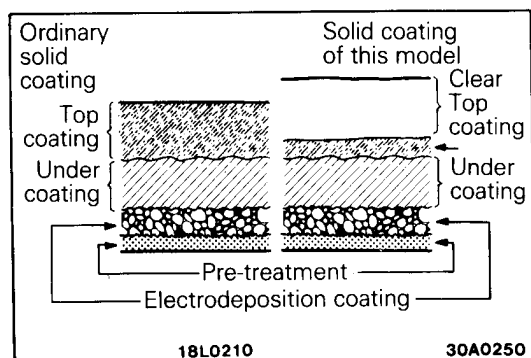
The information contained in the body colour code is explained in the body colour charts.

BODY COLOUR TYPES

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.

(M): Metallic paint

Paint used by manufacturer	Body colour Code	Body colour	Colour number	Body colour name	Engine compartment and luggage compartment colour	
					Colour number	Colour name
Paint used by manufacturer	R11	RED	AC10811	Santa Barbara Red	AC10811	RED
	W12	WHITE	AC10812	Blooming ton White	AC10812	WHITE
	X13	BLACK	AC10813	Appalachian Black	AC10813	BLACK
	B47	DARK BLUE (M)	AC10947	Niagara Blue (M)	AC10947	DARK BLUE
	R87	RED	AC10987	Pasadena Red	AC10987	RED



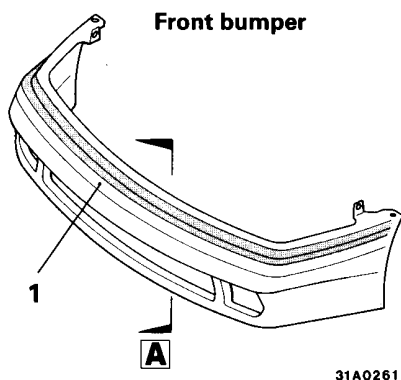
SOLID COATING

The solid coating of this model is an additional clear coating applied to the top coating in order to improve the lustre and feeling of depth.

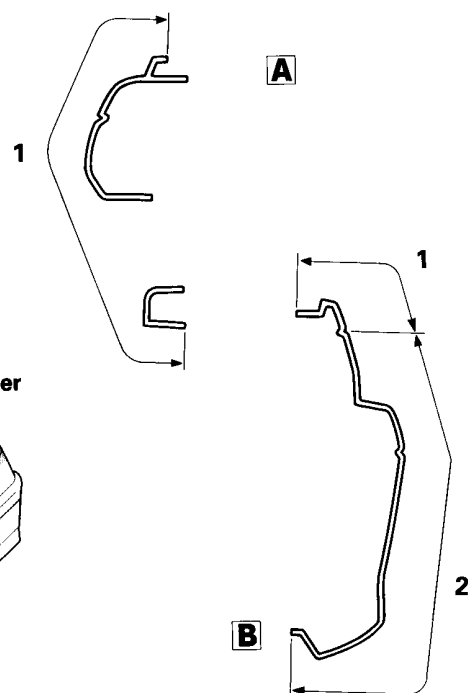
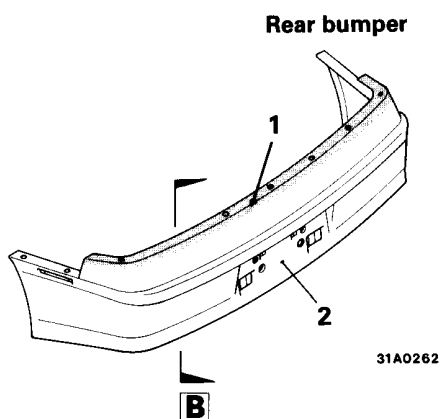
Note that the coating procedures are the same as those for the metallic finish.

BODY COLORING

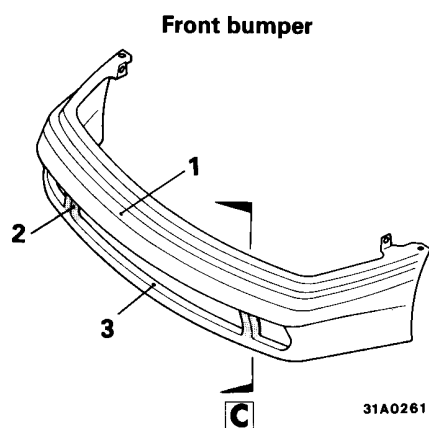
BUMPER (Normal type)



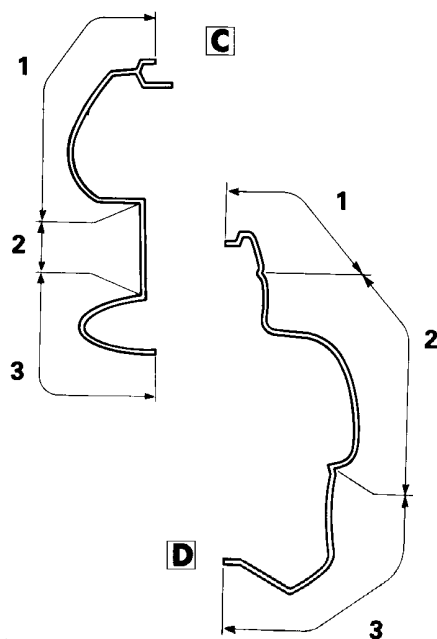
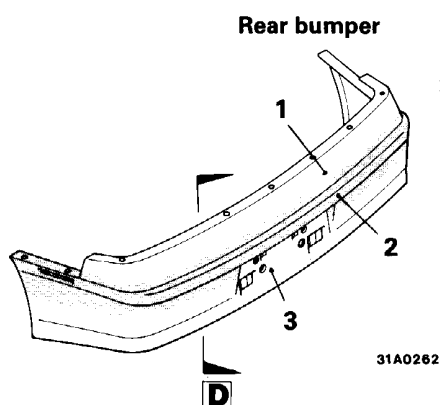
- 1. Body colour
- 2. AC10657



(Large type)



- 1. Body colour
- 2. AC10657

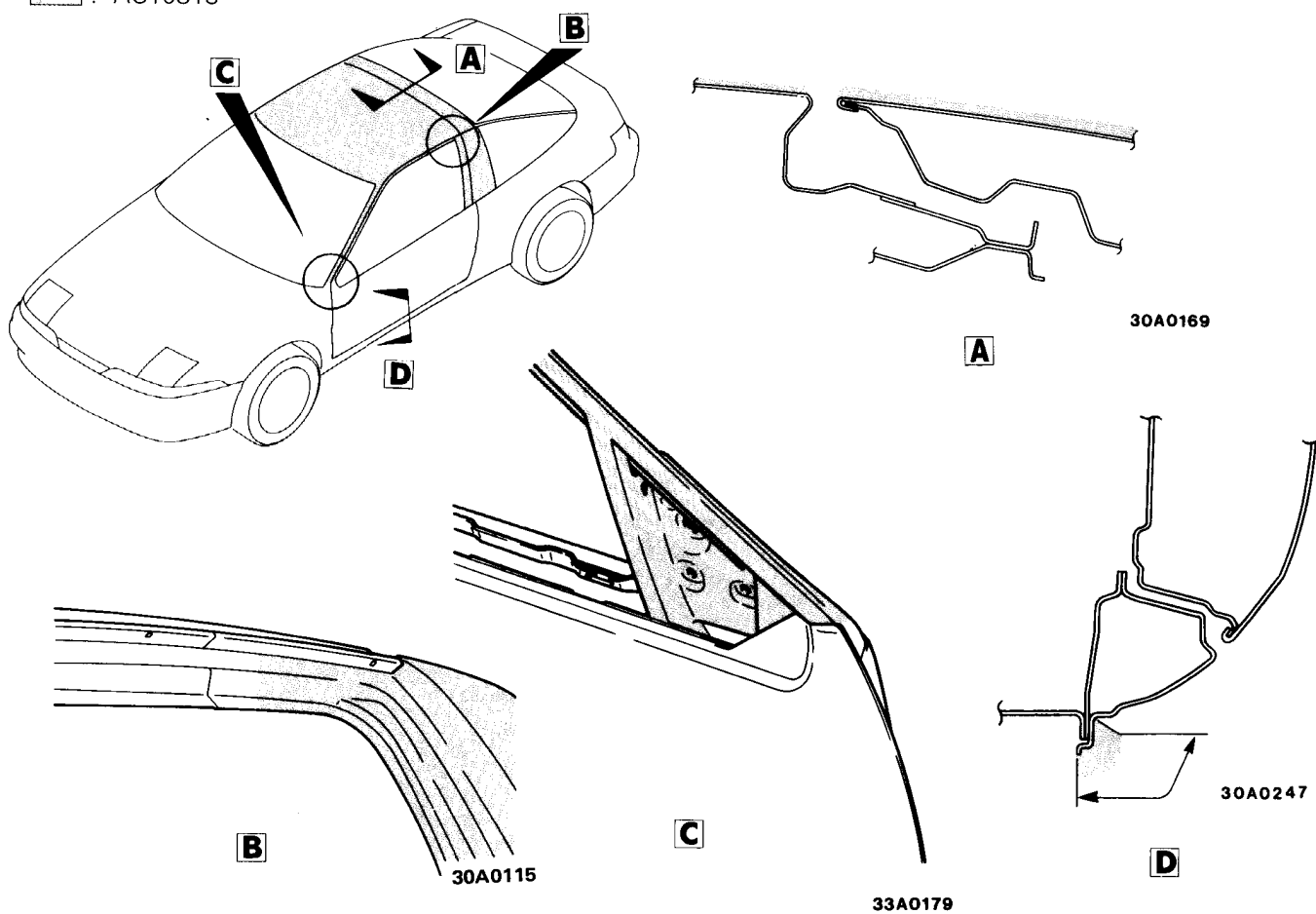
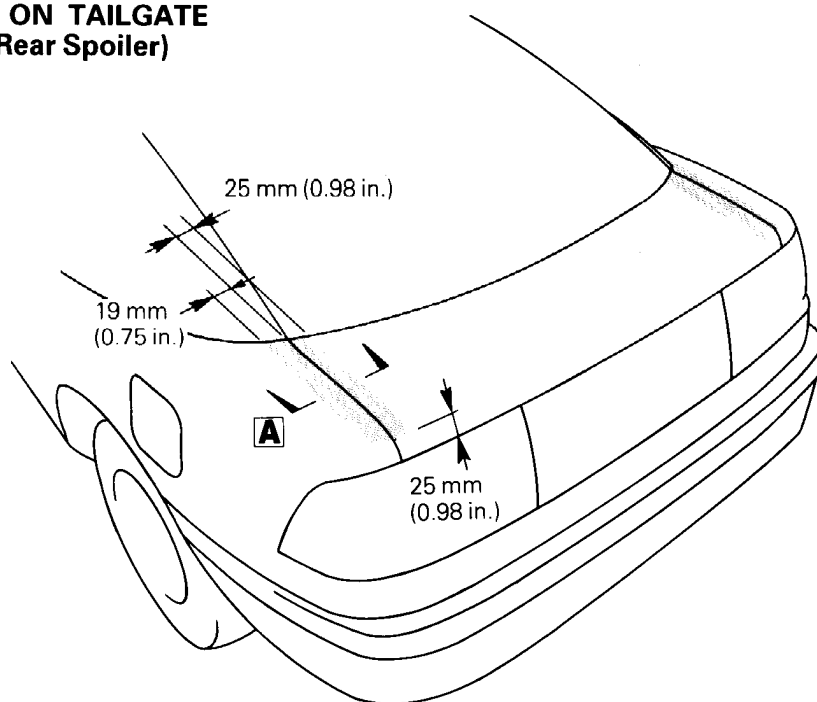


6

Front bumper	1	Body colour
	2	AC10657 (Black)
	3	AC10816 (M/Quartz)
Rear bumper	1	AC10813 (Black)
	2	Body colour
	3	AC10816 (M/Quartz)

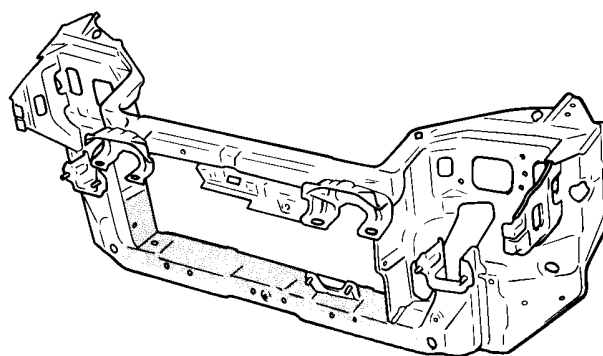
BLACK PAINT ON CENTER PILLAR, ROOF, DOOR SASH AND SIDE SILL

□ : AC10813


BLACK PAINT ON TAILGATE
(Vehicles with Rear Spoiler)


BLACK PAINT ON HEADLAMP SUPPORT
[colour codes B47 and W12 only]

 : AC10657



30A0166

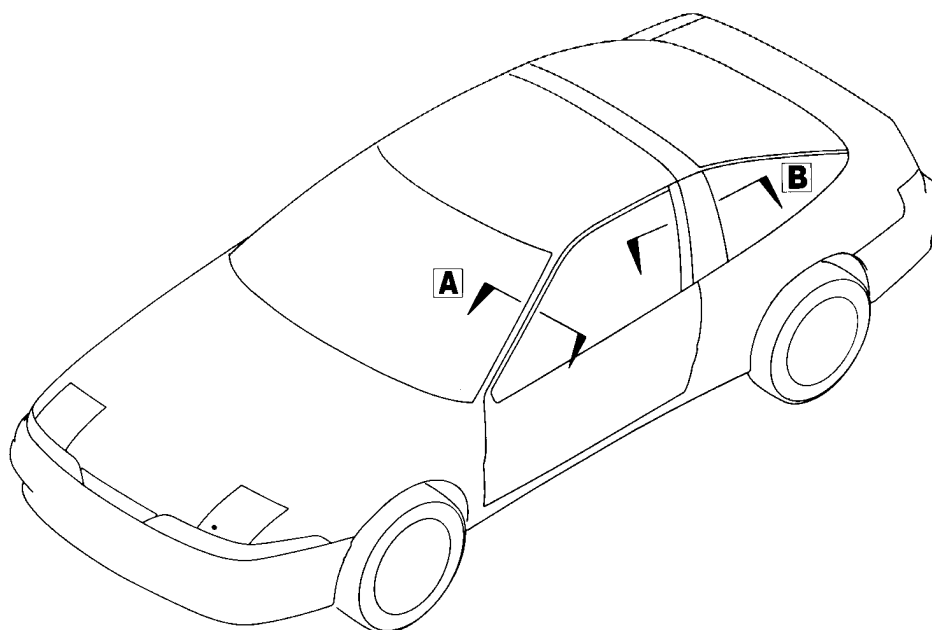
7

WIRING HARNESS ROUTING DIAGRAM

WIRING HARNESS ROUTING DIAGRAM 7-2

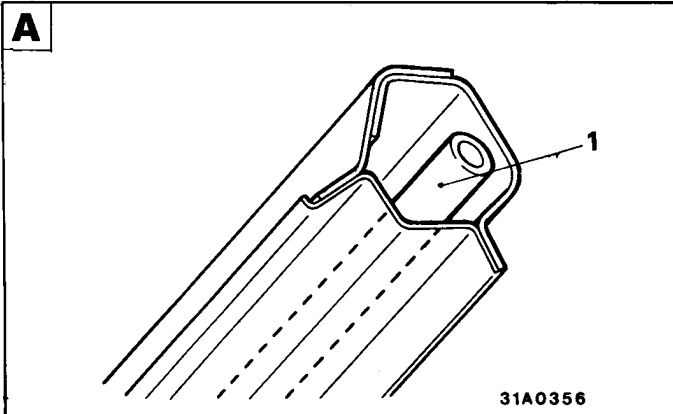
WIRING HARNESS ROUTING DIAGRAM

Hoses may be located in closed cross section components due to the body construction. When replacing these components, first remove the hoses.



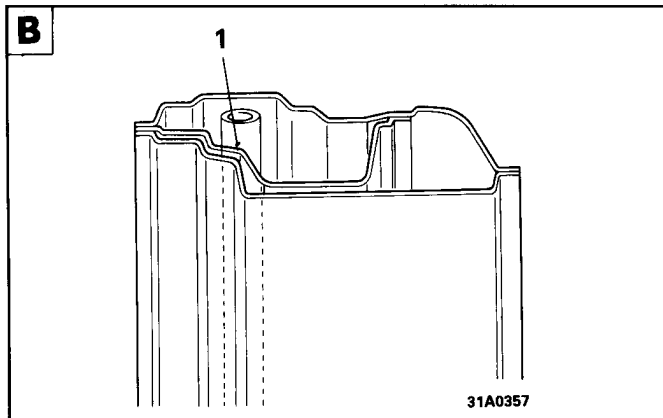
31A0179

1. Drain hose (Vehicles with sunroof)



31A0356

1. Drain hose (Vehicles with sunroof)

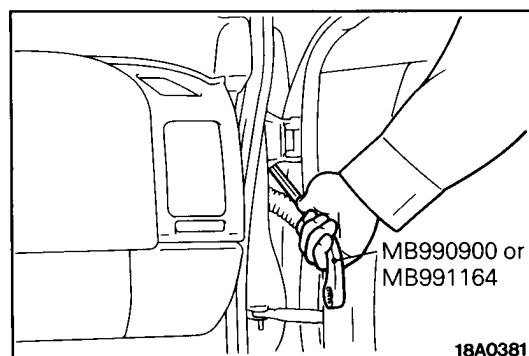
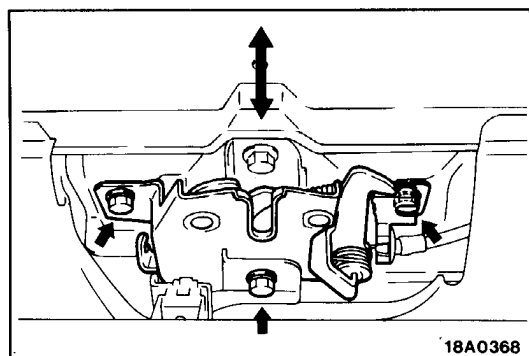
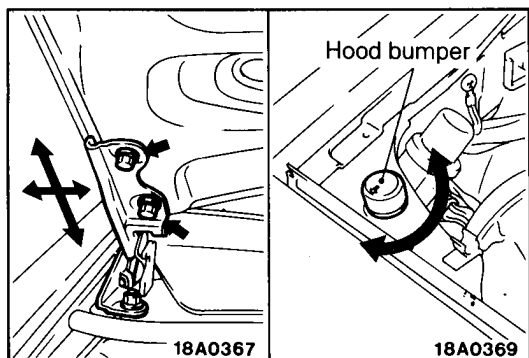


31A0357

8

REFERENCE MATERIAL

BOLTED PANEL FIT AND ADJUSTMENT	8-2
HOOD	8-2
DOOR	8-2
TAILGATE	8-3
FUEL FILLER DOOR	8-3
INSTALLATION AND REMOVAL OF ADHESIVE COMPONENTS	8-4
SIDE PROTECTOR MOULDING	8-4
SIDE AIR DAM	8-6
ADJUSTMENT OF OTHER PARTS	8-7
FRONT WHEEL ALIGNMENT	8-7
REAR WHEEL ALIGNMENT	8-7
HEADLAMP AIMING	8-9
DRIVING LAMP AIMING	8-10



BOLTED PANEL FIT AND ADJUSTMENT

HOOD

ADJUSTMENT OF HOOD FIT

1. Loosen the hood mounting bolts, and then adjust the hood by moving it so that the clearance is equal on all sides.
2. Turn the hood bumpers, adjust the height of the hood.
3. Loosen the hood latch mounting bolts, and then adjust the meshing of the hood latch and hood striker by moving the hood latch.

Hood installation bolt tightening torque:

12 Nm (1.2 kgm, 8ft.lbs.)

Hood latch installation bolt tightening torque:

9 Nm (0.9 kgm, 7ft.lbs.)

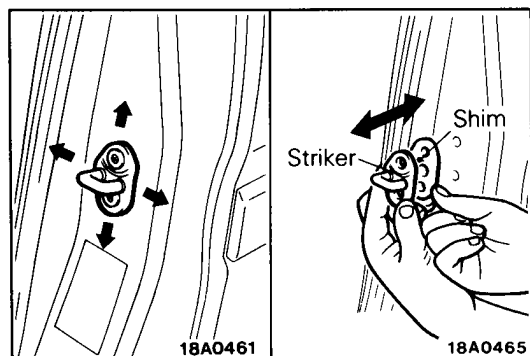
DOOR

ADJUSTMENT OF DOOR FIT

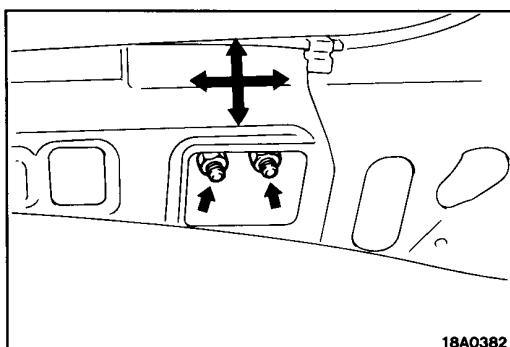
- (1) If the clearance between the door and body is not uniform, attach protection tape to the door edge and the fender around the hinge installation area; then, using the special tool, loosen the door hinge installation bolt at the body side, and move the door to adjust so that the clearance around the door is uniform.
- (2) If the door and body are not flush, use the special tool to loosen the door hinge installation bolt at the door side and then move the door to adjust it to be flush with the body.

Door hinge bolt tightening torque:

22 Nm (2.2 kgm, 16ft.lbs.)



- (3) If the opening/closing of the door feels "heavy", adjust the meshing (in the fore/aft direction) of the striker and the door latch by the shim at the striker installation part, and also move the striker up and down and from side to side.



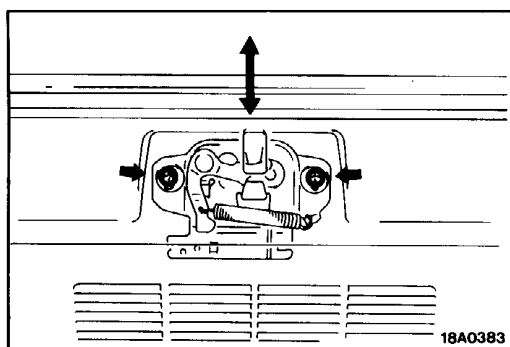
TAILGATE

ADJUSTMENT OF TAILGATE FIT

1. Loosen the tailgate hinges mounting nuts, and then adjust the tailgate by moving it so that the clearance is equal on all sides.

Tailgate hinge installation nut tightening torque:

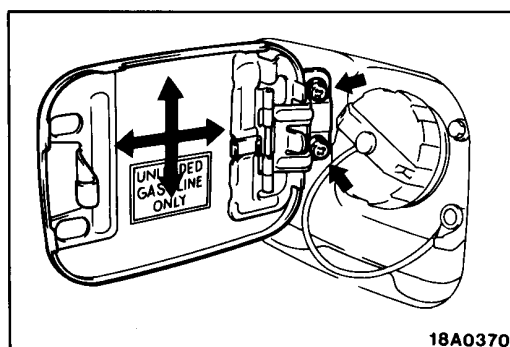
13 Nm (1.3 kgm, 9 ft.lbs.)



2. Loosen the tailgate latch mounting bolts, and then adjust the meshing of the tailgate latch and the tailgate striker by moving the tailgate latch.

Tailgate latch installation bolt tightening torque:

9 Nm (0.9 kgm, 7ft.lbs.)



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.

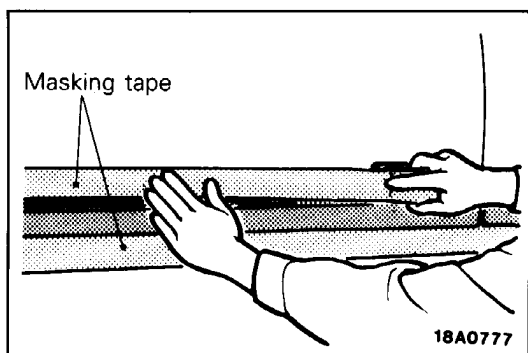
INSTALLATION AND REMOVAL OF ADHESIVE COMPONENTS

SIDE PROTECTOR MouldING



REMOVAL

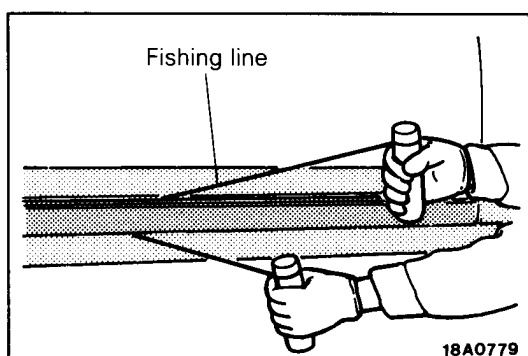
- (1) Apply masking tape to the outside circumference of the side protector moulding.



- (2) Insert fishing line ($\varnothing 0.8$ mm [0.03 in.]) in between the body and the side protector moulding, and pull both ends alternately to cut the adhesive section and remove the side protector moulding.

Caution

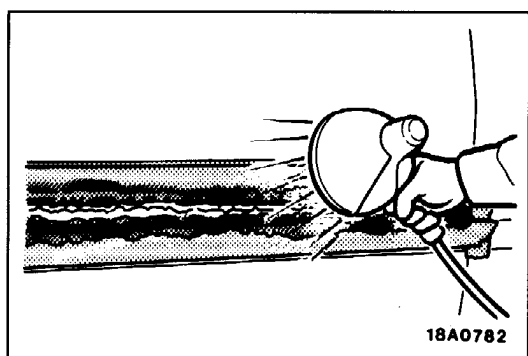
1. When reusing the side protector moulding, pull the fishing line along the edge of the body so as not to damage the edge of the side protector moulding.
2. If the adhesive is difficult to remove, heat it to 40°C (104°F).



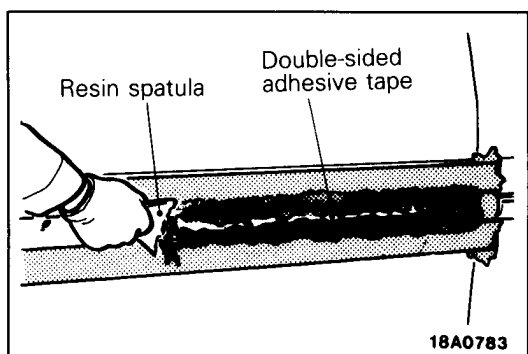
- (3) Heat the both-sided tape still remaining on the body with an infrared lamp, etc. to 40–60°C (104–140°F) for 5 to 10 minutes.

Caution

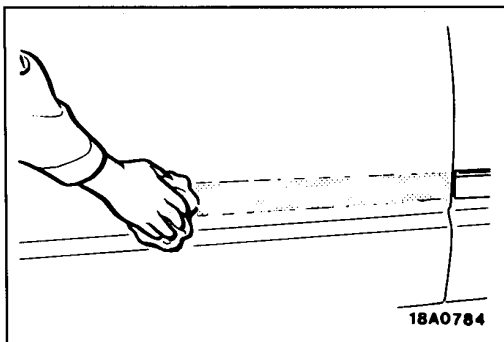
Do not overheat so that the surface turns white and dry.



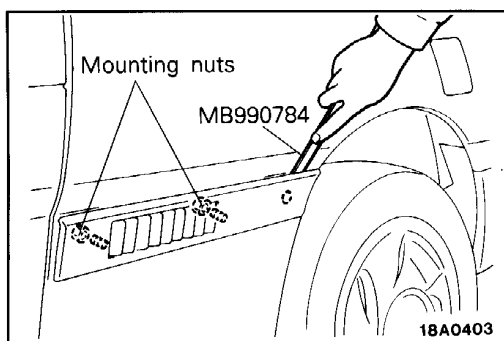
- (4) Scrape off the both-sided adhesive tape with a resin spatula.
- (5) Tear off the masking tape.



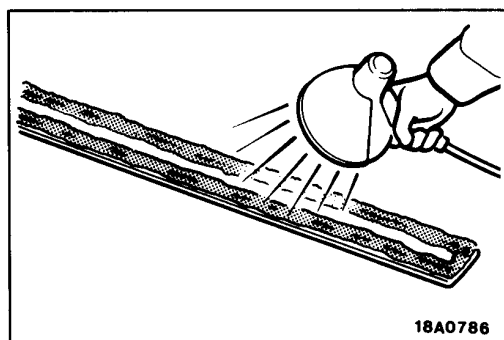
REFERENCE MATERIAL – Installation and Removal of Adhesive Components 8-5



- (6) Wipe the body surface clean with a rag moistened with isopropyl alcohol



- (7) Remove the rear side trim.
(8) After removing the mounting nuts, pry off the side protect moulding quarter with the special tool.



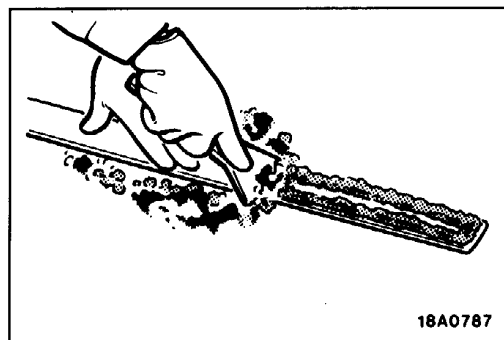
INSTALLATION

- **Affixing the both-sided tape to the side protector moulding (when reusing)**

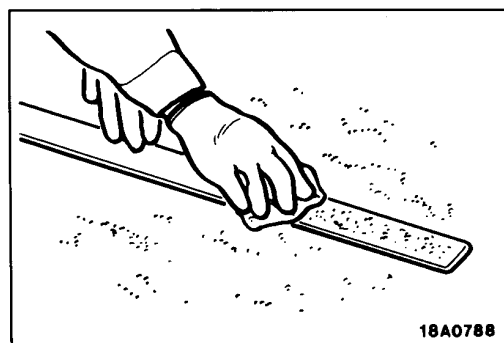
- (1) Heat the both-sided tape with an infrared lamp, etc. to 40–60°C (104–140°F) for 5–10 minutes.

Caution

Do not overheat so that the surface turns white and dry.

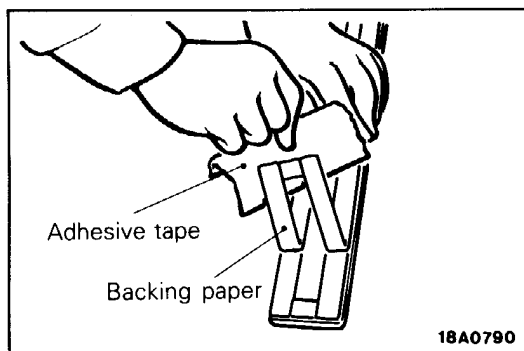
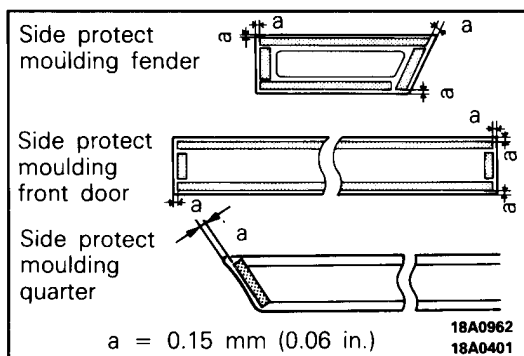


- (2) Scrape off the both-sided adhesive tape with a resin spatula or gasket scraper.



- (3) Wipe the body surface clean with a rag moistened with isopropyl alcohol.

8-6 REFERENCE MATERIAL – Installation and Removal of Adhesive Components



- (4) Affix the specified both-sided adhesive tape to the side protector moulding.

Adhesive tape: Both-sided tape
15 mm (0.59 in.) wide and
1.2 mm (0.05 in.) thick

● Installation of side protector moulding

- (1) Tear off the both-sided tape backing paper.

NOTE

If you attach the adhesive tape to the edge of the backing paper, it will be easy to tear off.

- (2) Install the side protector moulding so that the positioning bosses match the body holes.

NOTE

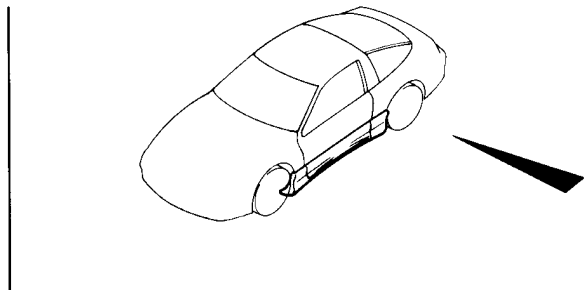
If the both-sided adhesive tape is difficult to affix during winter, etc., warm the bonding surfaces of the body and the side protector moulding before affixing the tape.

Body 40–60°C (104–140°F)

Side protector moulding 20–30°C (68–86°F)

- (3) Firmly press in the side protector moulding.

SIDE AIR DAM



REMOVAL

Remove by the same procedure as for the side protector moulding. Furthermore, remove the clips from the clip-mounted section while removing the side air dam.

Caution

Do not remove all of the residual adhesive.

INSTALLATION

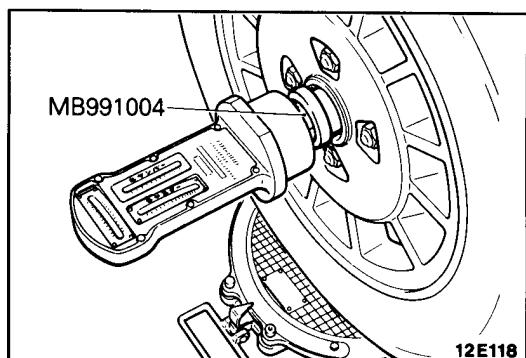
Install by the same procedure as for the side protector moulding.

NOTE

When reusing the side air dam, remove some of the residual adhesive, and apply the new adhesive over the top.

Caution

Do not get any adhesive on the adhesive surface of the tape.



ADJUSTMENT OF OTHER PARTS

FRONT WHEEL ALIGNMENT

ADJUSTMENT OF FRONT WHEEL ALIGNMENT

NOTE

The front suspension assembly must be free of worn, loose or damaged parts prior to measurement of front wheel alignments.

Measure wheel alignment by using the special tool.

CAMBER AND CASTER

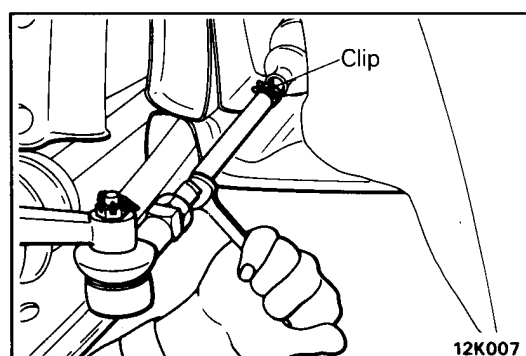
Standard value:

	2WD	4WD
Camber	$0^{\circ}15' \pm 30'$	$0^{\circ} \pm 30'$
Caster	$2^{\circ}20' \pm 30'$	$2^{\circ}18' \pm 30'$

Camber and caster are pre-set at the factory and cannot be adjusted.

NOTE

If camber and caster are not within specifications, replace bent or damaged parts.



TOE-IN

Standard value: 0 ± 3 mm (0 ± 0.118 in.)

- (1) Adjust the toe-in by undoint 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 toward the front of the vehicle and the right turnbuckle is turned toward the rear of the vehicle.

- (3) For each half turn of the left and right tie rods, the toe-in will be adjusted by 6 mm (0.24 in.)

- (4) After making the adjustments, use a turning radius gage to confirm that the steering wheel turning angle is within the standard value range.

REAR WHEEL ALIGNMENT

<2WD>

REAR WHEEL ALIGNMENT INSPECTION

The rear suspension assembly must be free of worn, loosen or damaged parts prior to measurement of rear wheel alignment.

Standard value:

Toe-in (Left-right difference) 0 ± 3 mm (0 ± 0.118 in.)
Camber $-45' \pm 14'$

NOTE

The rear wheel alignment is set at the factory and cannot be adjusted.

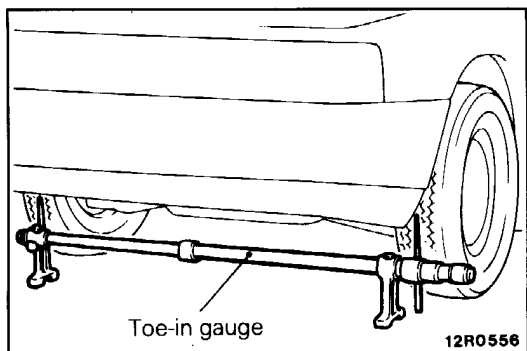
If toe-in or camber is not within the standard value, replace bent or damaged parts.

<4WD>

ADJUSTMENT OF REAR WHEEL ALIGNMENT

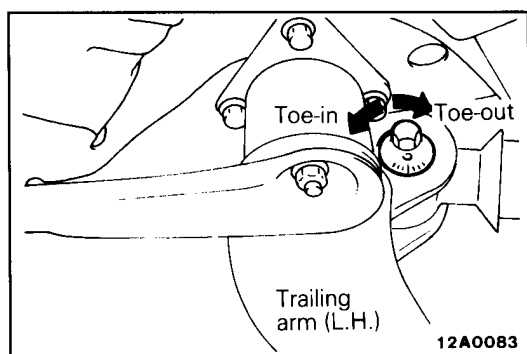
Measure the wheel alignment with the vehicle parked on level ground.

The rear suspension and wheels should be serviced to the normal condition prior to measurement of wheel alignment.

**TOE-IN**

- (1) Measure the toe-in with a toe-in gauge.

Standard value: 5 ± 3 mm (0.196 ± 0.118 in.)

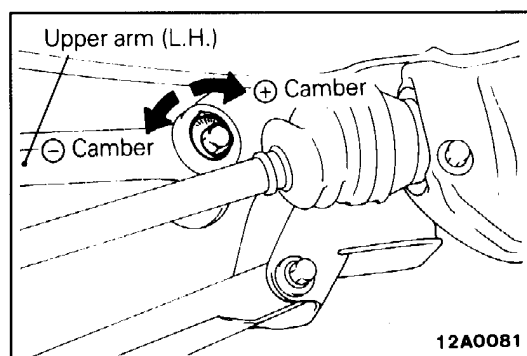


- (2) If the toe-in is not within the standard value, adjust it by moving the mounting bolts located on the crossmember side of the trailing arm.

NOTE

Make the adjustment by moving the left and the right bolts equally.

Movement of one division on the scale will cause toe-in variation of about 2 mm (0.08 in.).

**CAMBER**

- (1) Measure the camber with a camber/caster/kingpin gauge.

Standard value: $1^{\circ}45' \pm 30'$

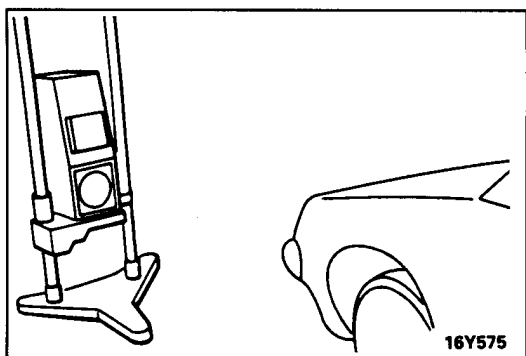
- (2) If the camber is not within the standard value, adjust it by moving the mounting bolt located on the crossmember side of the upper arm.

NOTE

Movement of one division on the scale will cause camber variation of about 15'.

Caution

1. As toe-in will vary 0.9 mm (0.035 in.) for every camber scale adjustment, adjust the toe after adjusting camber.
2. The difference between the left and the right camber shall be less than 15'.



HEADLAMP AIMING

<Using a Beamsetting Equipment>

- (1) The headlamps should be aimed with the proper beamsetting equipment, and in accordance with the equipment manufacture's instructions.

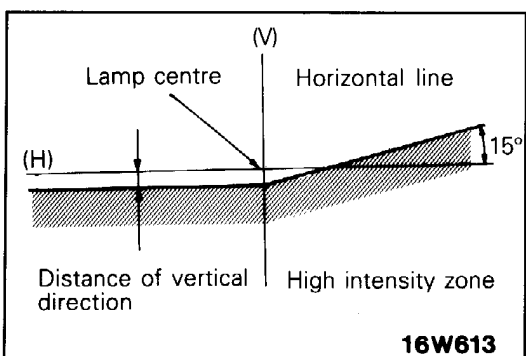
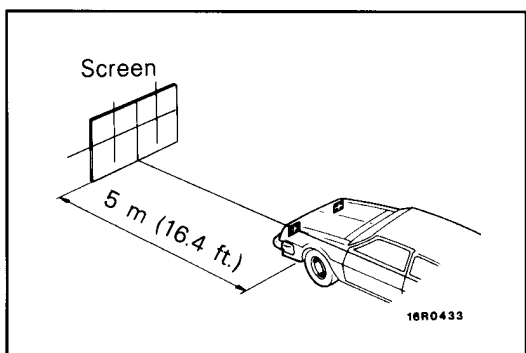
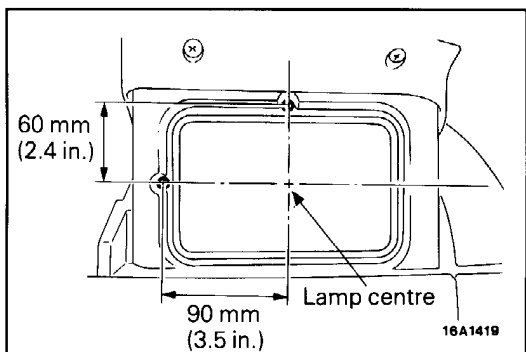
NOTE

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 requirements.

- (2) Alternately turn the adjusting screw to adjust the headlamp aiming.

<Using a Screen>

- (1) Measure the center of the headlamp as shown in the illustration.
- (2) Inflate the tyres to the specified pressures and remove the load from the vehicle (except a driver).
- (3) Set the distance between the screen and the centre of the headlamps as shown in the illustration.
- (4) With the engine running at 2,000 r/min, aim the headlamps.



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

Standard value: <For lower beam adjustment>

(Vertical direction)

60 mm (2.36 in.) below horizontal (H)

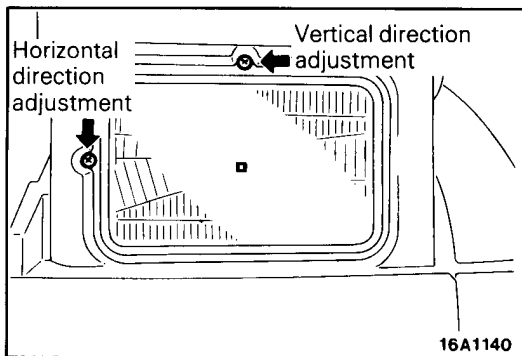
(Horizontal direction)

Position where the 15° sloping section intersects the vertical line (V)

Caution

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

When it is difficult, because of outside light, to distinguish the light/dark dividing line, use a curtain, screen or similar material to reduce the effects of the outside light.



- (6) Alternately turn the adjusting screw to adjust the headlamp aiming.

Caution

Be sure to adjust the aiming adjustment screw in the tightening direction.

INTENSITY MEASUREMENT

Using a photometer, and following its manufacture's instruction manual, measure the headlamp intensity and check to be sure that the limit value is satisfied.

Limit: 30,000 cd or more

NOTE

1. When measuring the intensity, maintain an engine speed of 2,000 r/min., with the battery in the charging condition.
2. There may be special local regulations pertaining to headlamp intensity; be sure to make any adjustments necessary to satisfy such regulations.
3. If an illuminometer is used to make the measurements, convert its values to photometer values by using the following formula.

$$I = E r^2 \text{ Where: } I = \text{intensity (cd)}$$

$$E = \text{illumination (lux)}$$

$$r = \text{distance (m) from headlamps to illuminometer}$$

DRIVING LAMP AIMING

1. Measure the centre of the driving lamps, as shown in the illustration.
2. Inflate the tyres to the specified pressures and remove the load from the vehicle (except a driver).
3. Set the distance between the screen and the centre of the driving lamps at 5 m (16.4 ft.).
4. Set the headlamps to upper beam to make the driving lamp illuminate.
5. With the engine running at 2,000 r/min., aim the driving lamp.
6. Check if the beam shining onto the screen is at the standard value.

Standard value:

(Vertical direction)

43 mm (1.7 in.) below horizontal (H)

(Horizontal direction)

Parallel to direction of vehicle travel

Caution

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

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

Caution

Be sure to adjust the aiming adjustment screw in the tightening direction.

