1 BODY CONSTRUCTION

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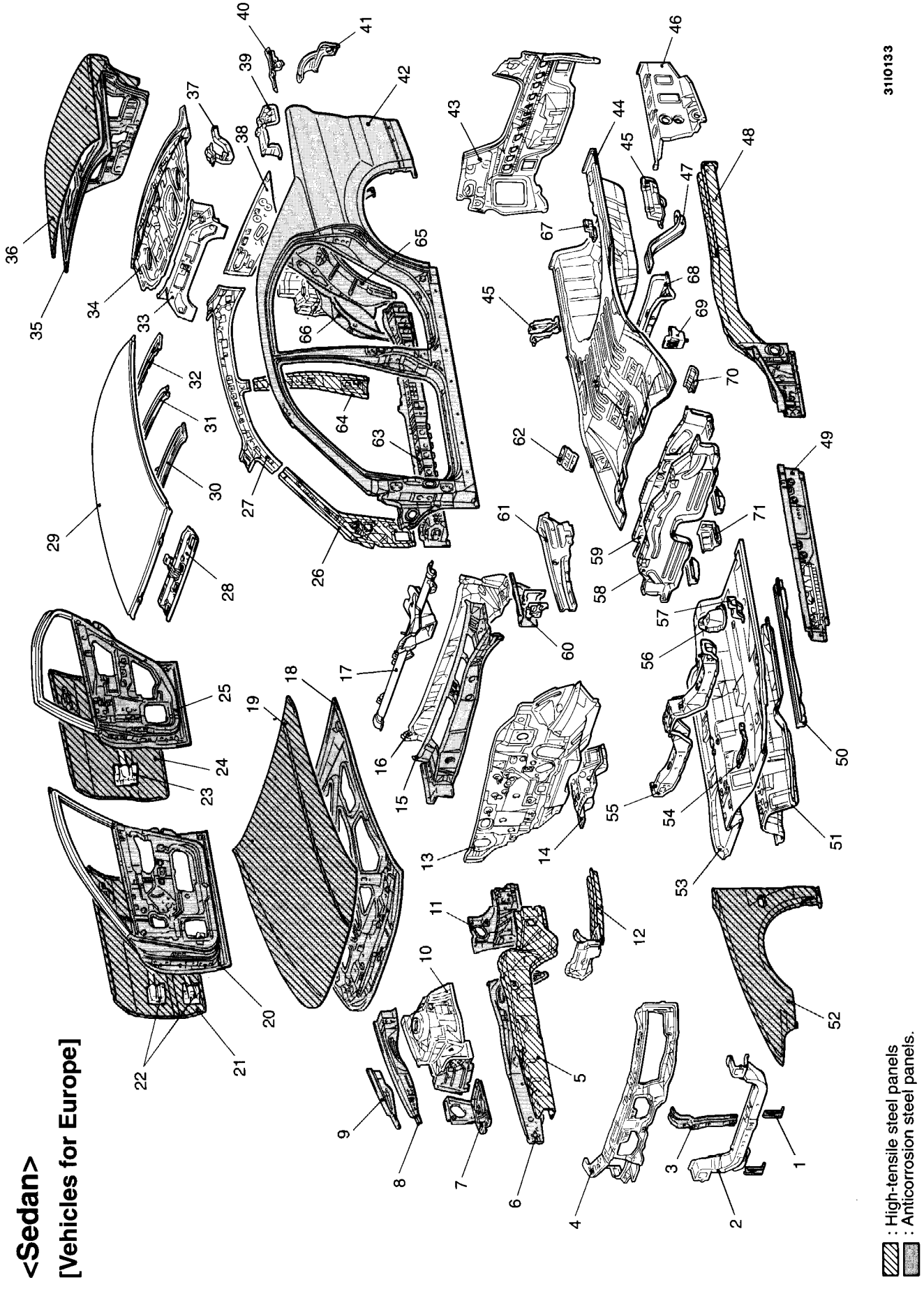
BODY COMPONENTS

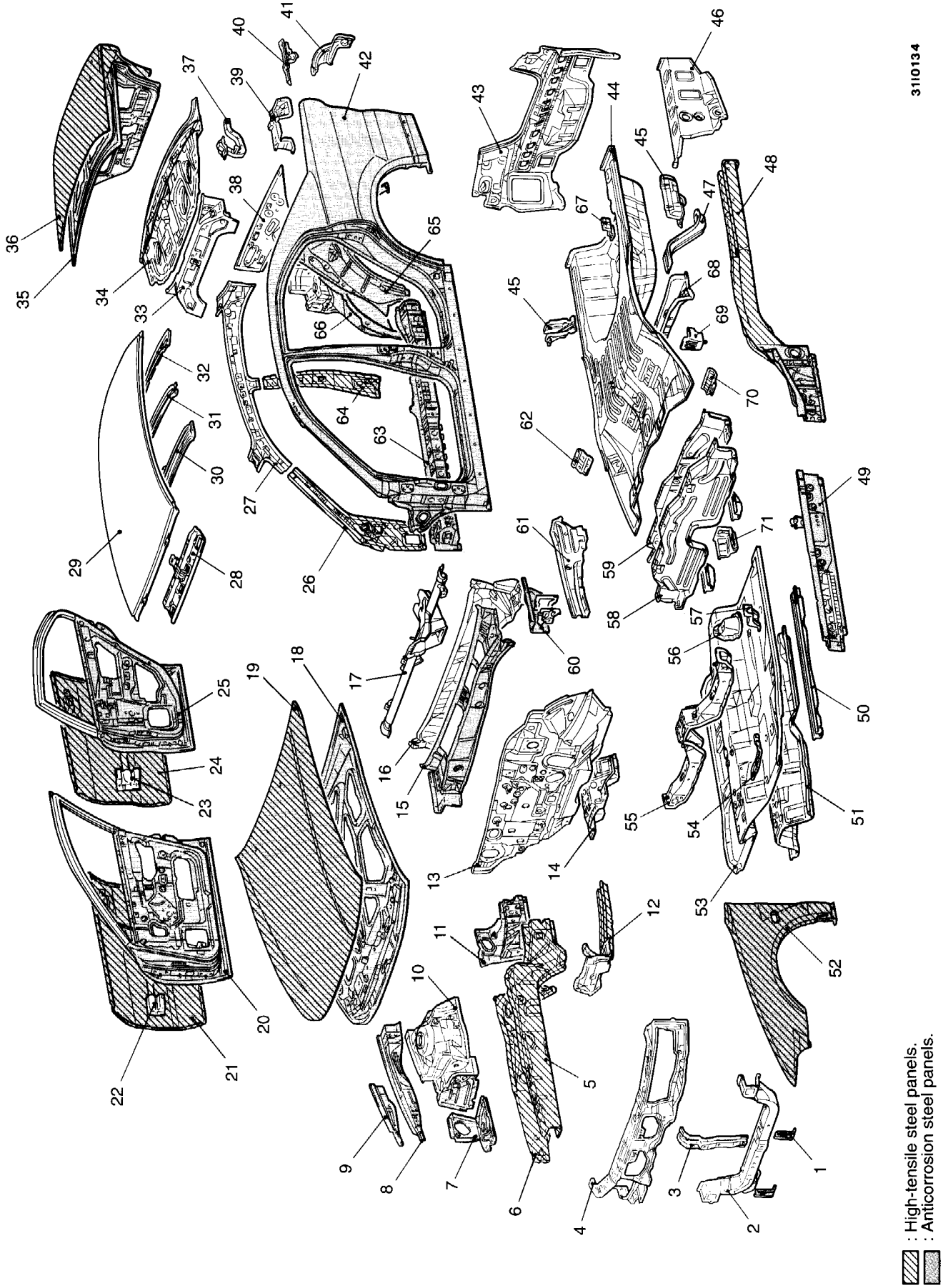
<Sedan>

[Vehicles for Europe]

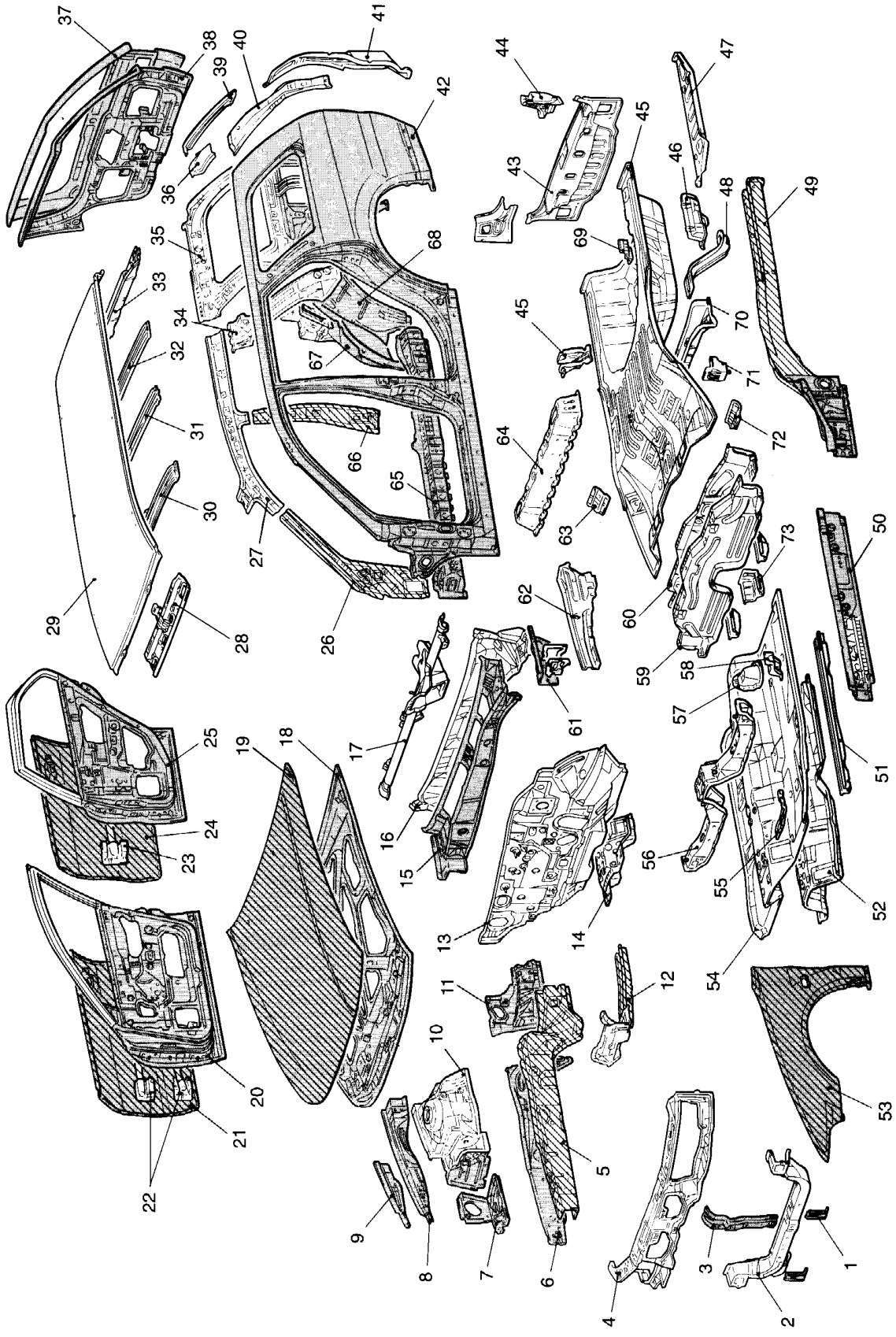


1. Bumper bracket
2. Front end crossmember
3. Hood lock stay
4. Headlamp support panel
5. Front sidemember, inner
6. Front sidemember, outer
7. Shield plate
8. Front upper frame, inner
9. Front upper frame, outer
10. Spring house panel
11. Front floor side sill, inner, front
12. Front sidemember, rear
13. Dash panel
14. Backbone reinforcement extension, front
15. Cowl top panel, outer
16. Cowl top panel, inner
17. Deck crossmember
18. Hood inner panel
19. Hood outer panel
20. Front door inner panel
21. Front door outer panel
22. Front door side door beam
23. Rear door side door beam
24. Rear door outer panel
25. Rear door inner panel
26. Front pillar, inner
27. Side roof rail, inner
28. Front roof rail
29. Roof panel
30. Roof bow
31. Rear roof bow
32. Rear roof rail
33. Rear shelf extension
34. Rear shelf panel
35. Trunk lid inner panel
36. Trunk lid outer panel
37. Trunk lid hinge
38. Rear pillar, inner
39. Rear shelf brace
40. Quarter corner panel
41. Rear end outer extension
42. Side outer panel
43. Rear end panel
44. Rear floor pan
45. Shipping bracket
46. Rear floor side brace
47. Garage jack bracket
48. Rear floor sidemember
49 Front floor side sill, inner
50. Front floor sidemember
51. Backbone reinforcement
52. Front fender
53. Front floor pan
54. Side sill to floor brace
55. Front floor crossmember
56. Front seat rear center bracket
57. Front seat rear side bracket
58. Rear seat front crossmember
59. Rear seat rear crossmember
60. Front upper frame extension, inner
61. Front upper frame extension, outer
62. Rear seat back side bracket
63. Side sill reinforcement
64. Center pillar, inner
65. Quarter panel, inner
66. Rear wheelhouse, inner
67. Jack bracket
68. Rear floor crossmember
69. Fuel tank support rear bracket
70. Muffler hanger rear reinforcement
71. Backbone reinforcement extension, rear

[Vehicles for General Export]



1. Bumper bracket
2. Front end crossmember
3. Hood lock stay
4. Headlamp support panel
5. Front sidemember, inner
6. Front sidemember, outer
7. Shield plate
8. Front upper frame, inner
9. Front upper frame, outer
10. Spring house panel
11. Front floor side sill, inner, front
12. Front sidemember, rear
13. Dash panel
14. Backbone reinforcement extension, front
15. Cowl top panel, outer
16. Cowl top panel, inner
17. Deck crossmember
18. Hood inner panel
19. Hood outer panel
20. Front door inner panel
21. Front door outer panel
22. Front door side door beam
23. Rear door side door beam
24. Rear door outer panel
25. Rear door inner panel
26. Front pillar, inner
27. Side roof rail, inner
28. Front roof rail
29. Roof panel
30. Roof bow
31. Rear roof bow
32. Rear roof rail
33. Rear shelf extension
34. Rear shelf panel
35. Trunk lid inner panel
36. Trunk lid outer panel
37. Trunk lid hinge
38. Rear pillar, inner
39. Rear shelf brace
40. Quarter corner panel
41. Rear end outer extension
42. Side outer panel
43. Rear end panel
44. Rear floor pan
45. Shipping bracket
46. Rear floor side brace
47. Garage jack bracket
48. Rear floor sidemember
49 Front floor side sill, inner
50. Front floor sidemember
51. Backbone reinforcement
52. Front fender
53. Front floor pan
54. Side sill to floor brace
55. Front floor crossmember
56. Front seat rear center bracket
57. Front seat rear side bracket
58. Rear seat front crossmember
59. Rear seat rear crossmember
60. Front upper frame extension, inner
61. Front upper frame extension, outer
62. Rear seat back side bracket
63. Side sill reinforcement
64. Center pillar, inner
65. Quarter panel, inner
66. Rear wheelhouse, inner
67. Jack bracket
68. Rear floor crossmember
69. Fuel tank support rear bracket
70. Muffler hanger rear reinforcement
71. Backbone reinforcement extension, rear



<Wagon>

: High-tensile steel panels.
: Anticorrosion steel panels.

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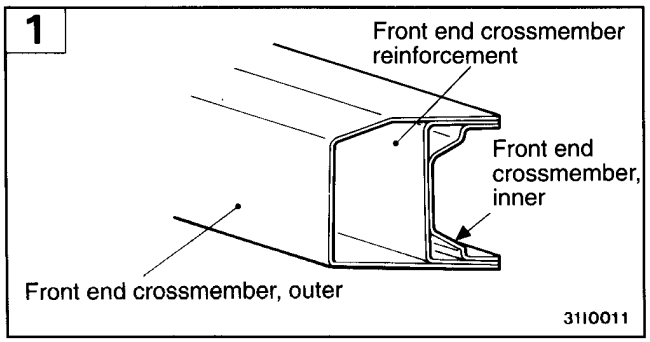
2. Front end crossmember
3. Hood lock stay
4. Headlamp support panel
5. Front sidemember, inner
6. Front sidemember, outer
7. Shield plate
8. Front upper frame, inner
9. Front upper frame, outer
10. Spring house panel
11. Front floor side sill, inner, front
12. Front sidemember, rear
13. Dash panel
14.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

BODY CONSTRUCTION CHARACTERISTICS

BODY MAIN CROSS-SECTIONAL VIEWS

1



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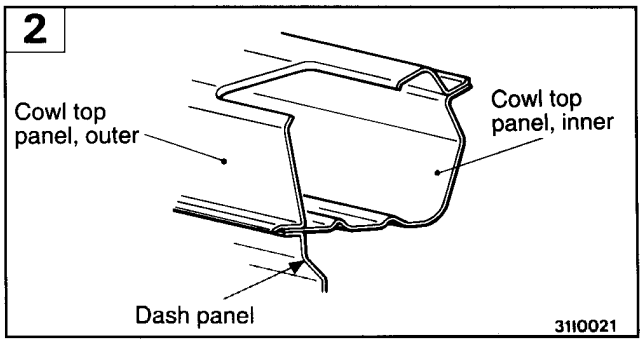

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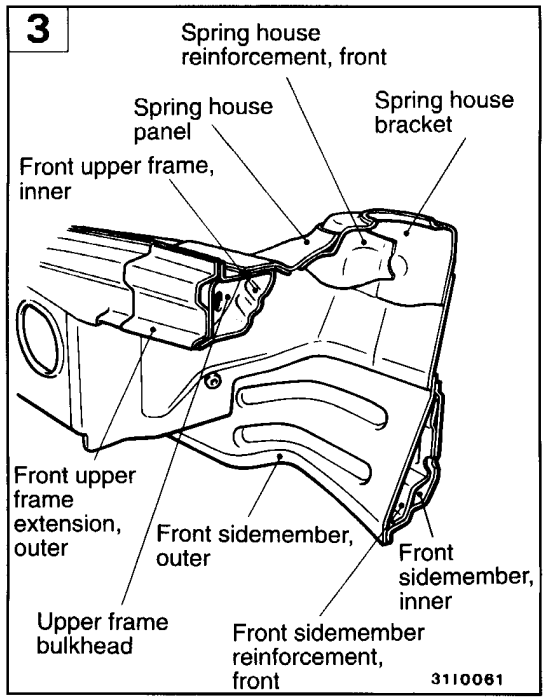

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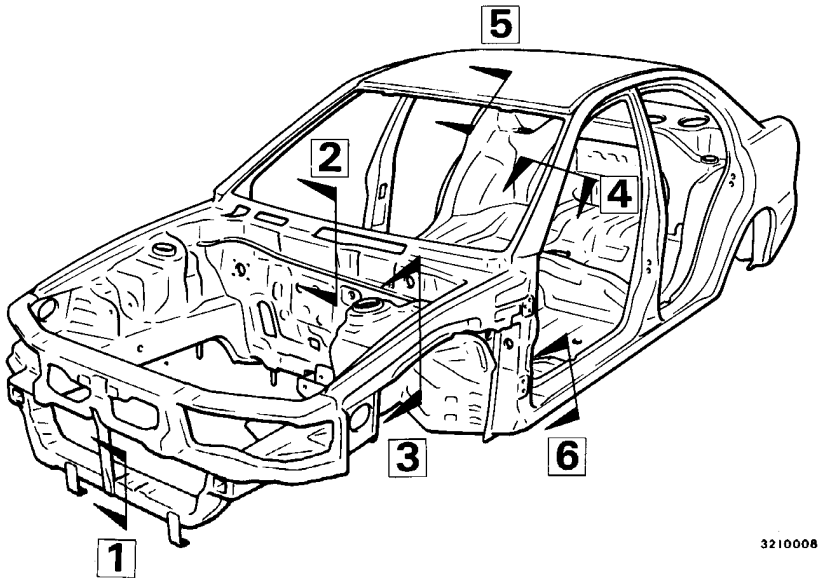

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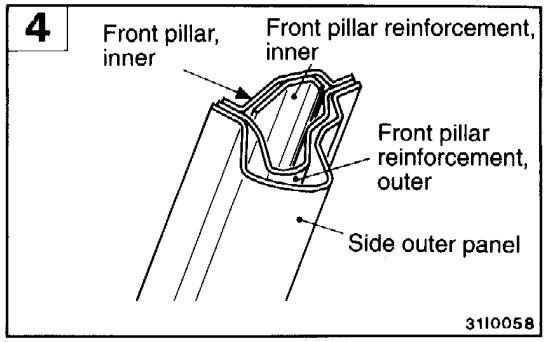

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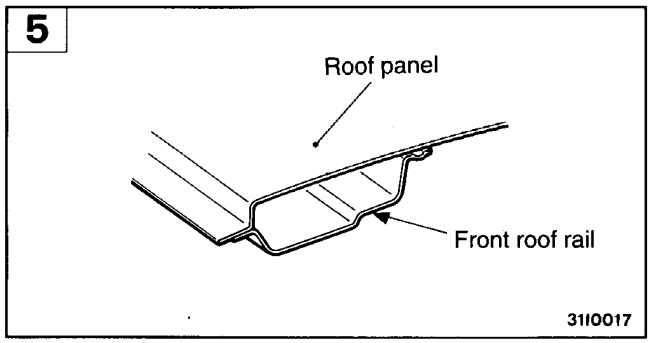

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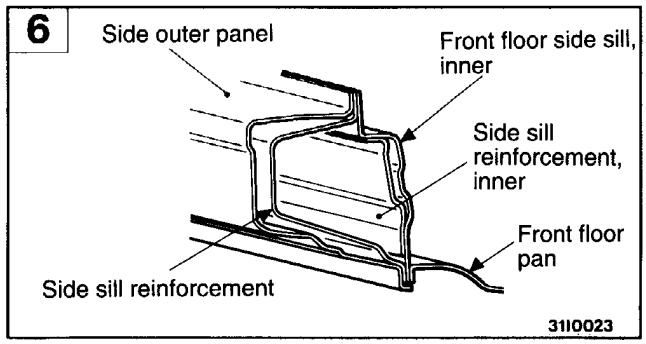

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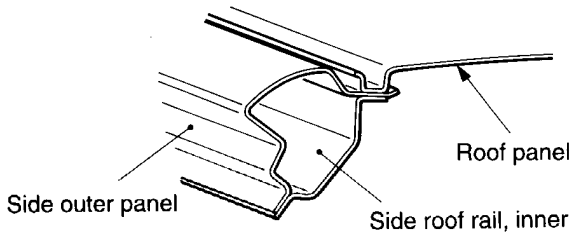

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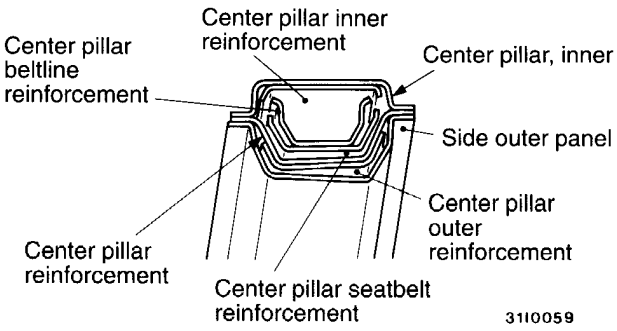
8 [Vehicles for Europe]



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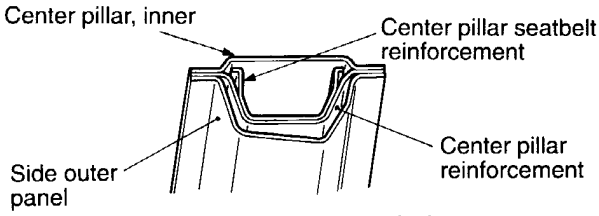
[Vehicles for General Export]



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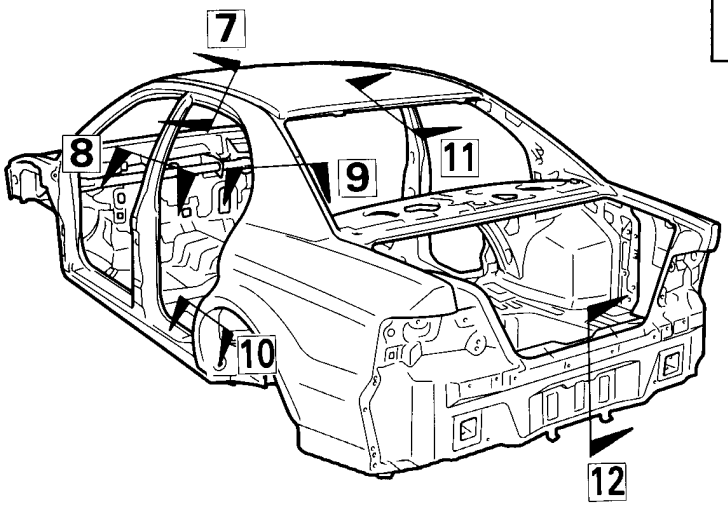

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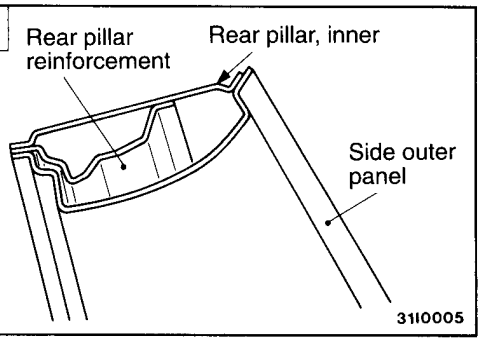

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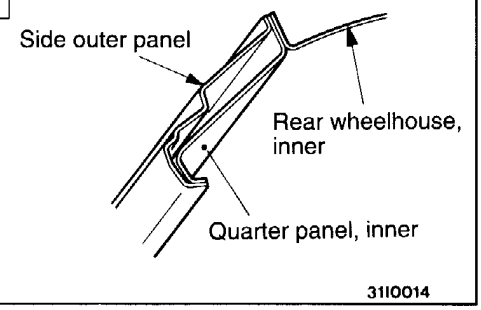

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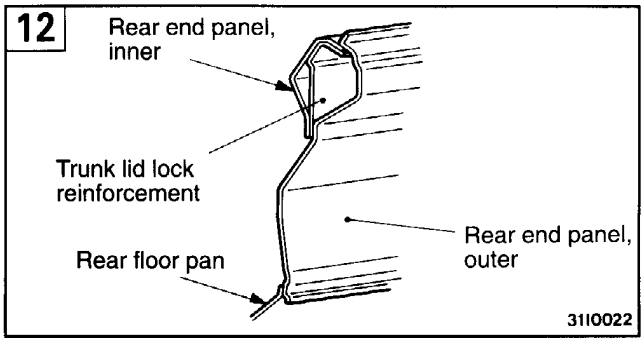

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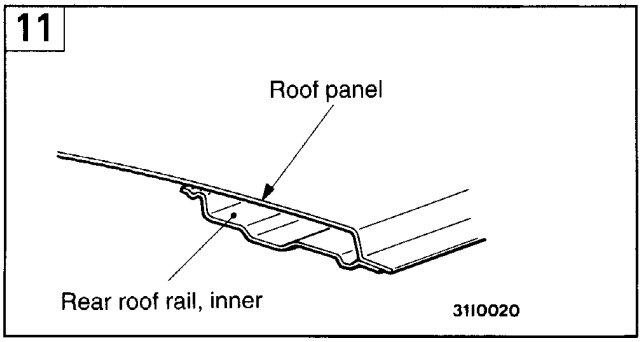

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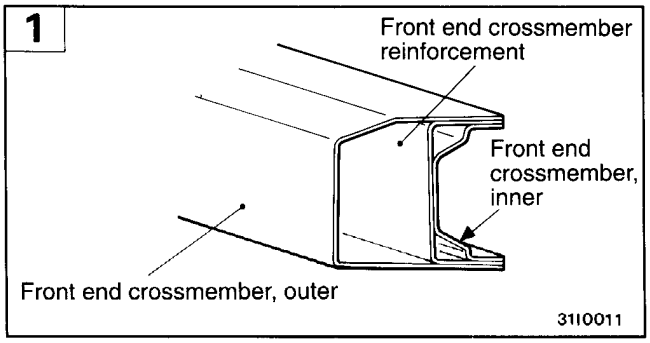

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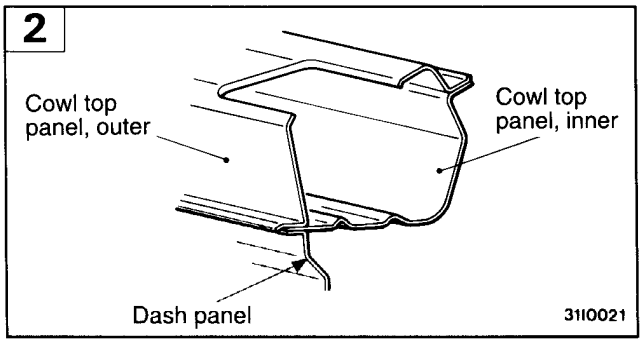

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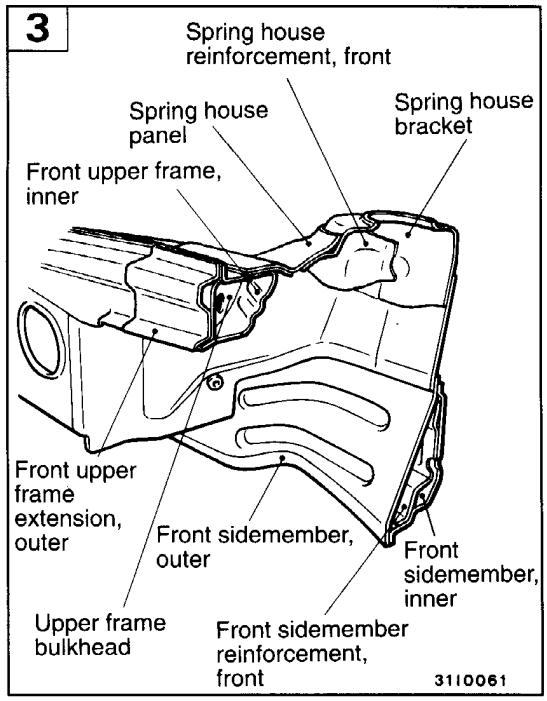

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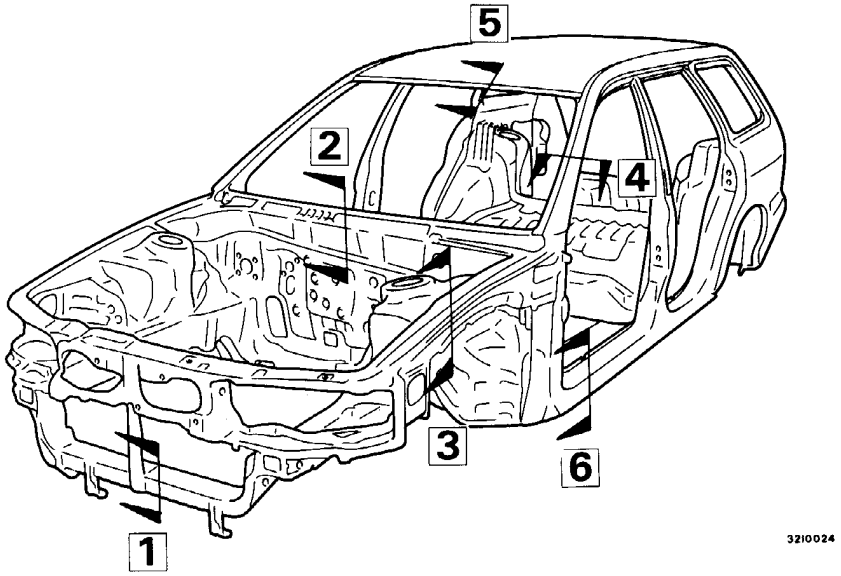

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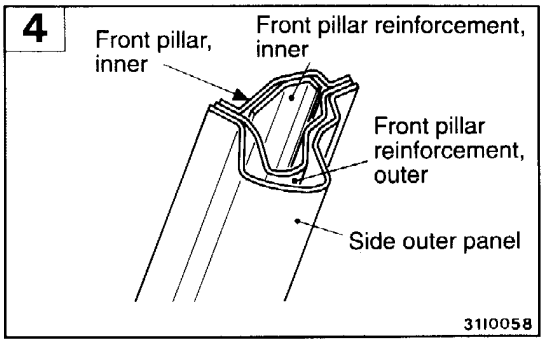

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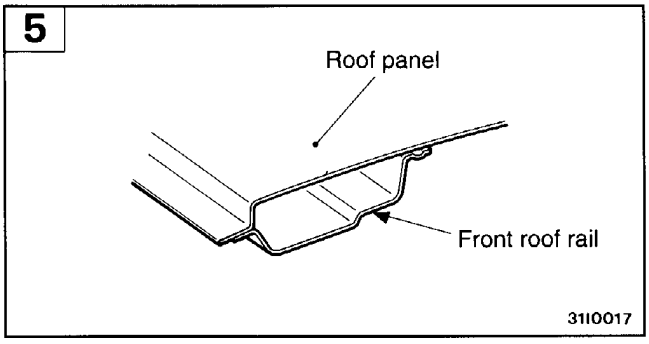

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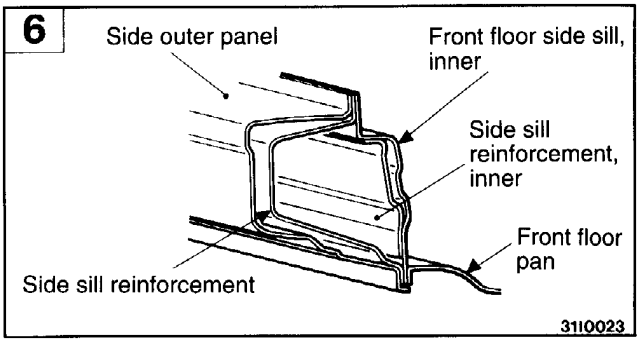
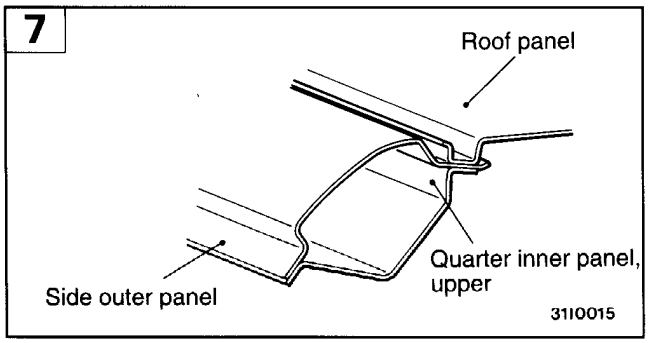
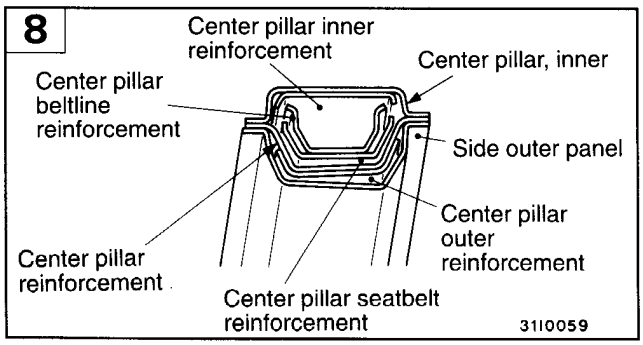



7
Roof panel
Quarter inner panel, upper
Side outer panel
3110015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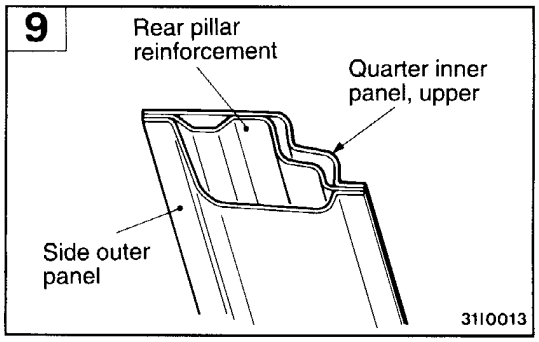
Center pillar inner reinforcement
Center pillar, inner
Center pillar beltline reinforcement
Side outer panel
Center pillar outer reinforcement
Center pillar reinforcement
Center pillar seatbelt reinforcement
3110059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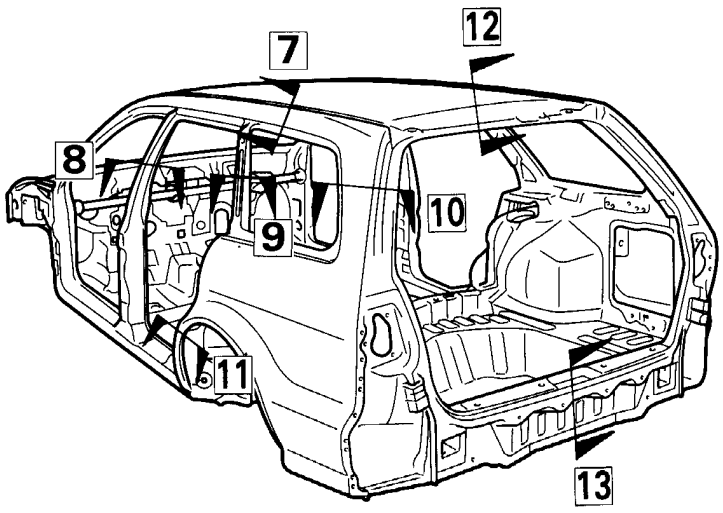
Rear pillar reinforcement
Quarter inner panel, upper
Side outer panel
3110013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13
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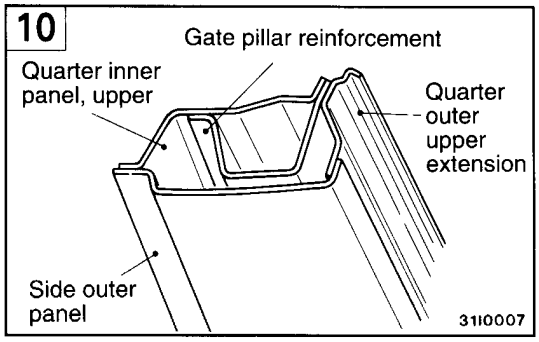
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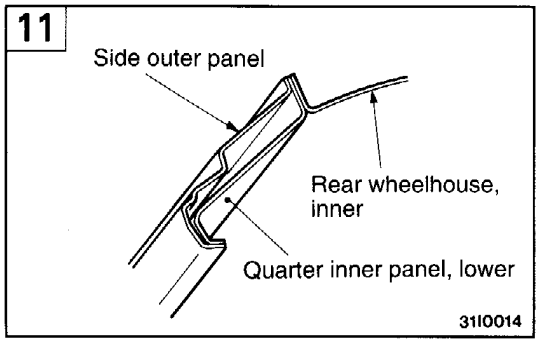
Gate pillar reinforcement
Quarter inner panel, upper
Quarter outer upper extension
Side outer panel
3110007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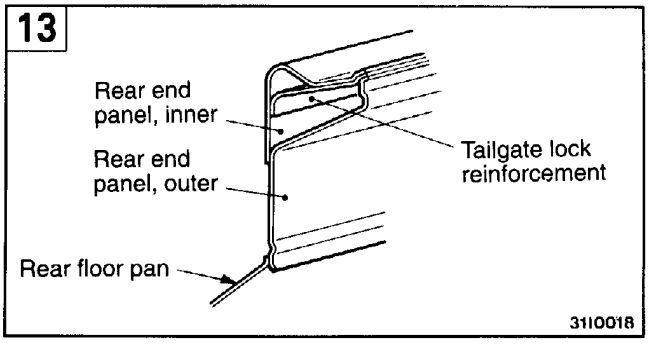
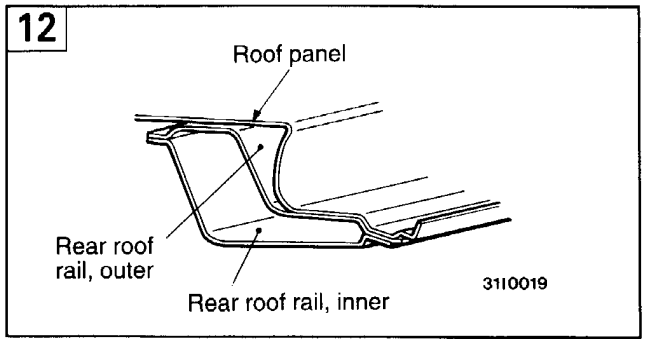
Side outer panel
Rear wheelhouse, inner
Quarter inner panel, lower
3110014

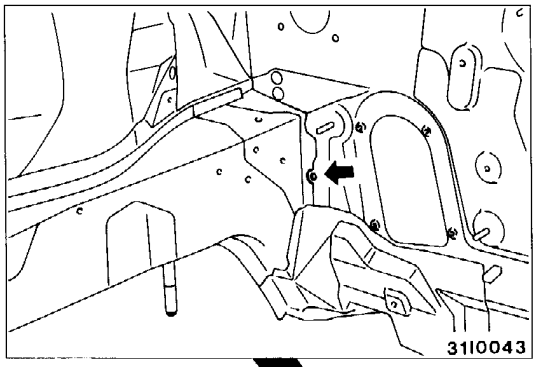

13
Rear end panel, inner
Rear end panel, outer
Tailgate lock reinforcement
Rear floor pan
3110018

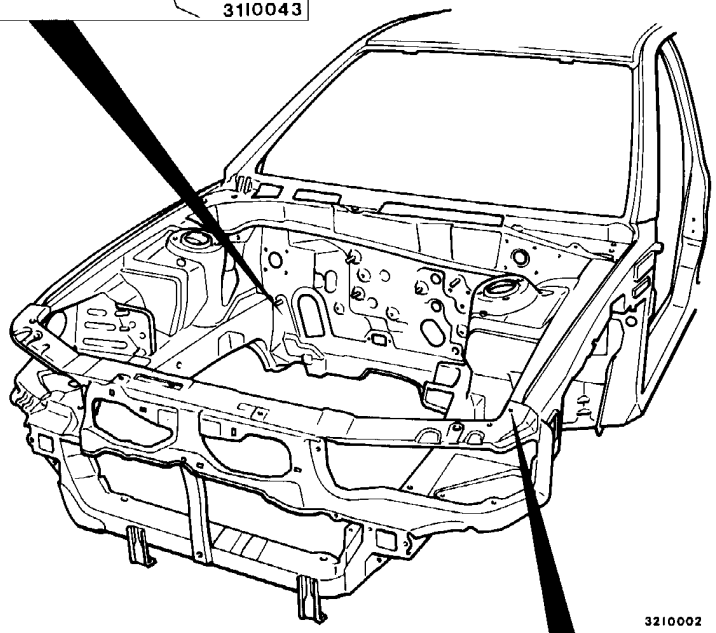

12
Roof panel
Rear roof rail, outer
Rear roof rail, inner
3110019

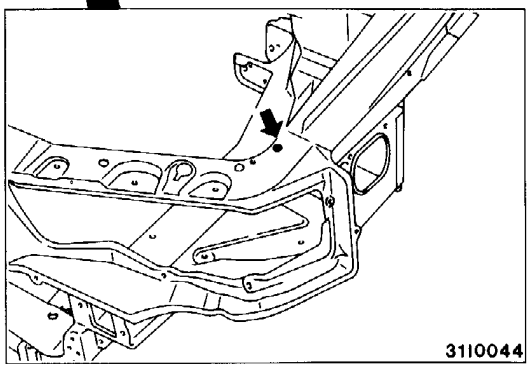
MAINTENANCE, SERVICEABILITY

HEADLAMP SUPPORT, FENDER SHIELD

The overlapping parts indicated in the illustrations below have been provided with positioning projections, notches and holes to make installation work easier.

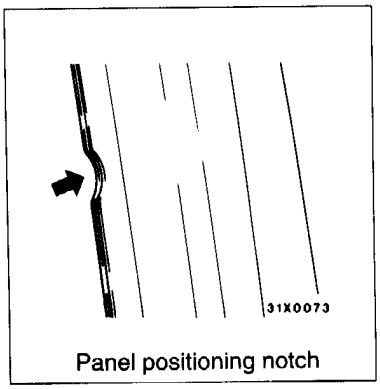






SIDE STRUCTURE

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



Panel positioning notch

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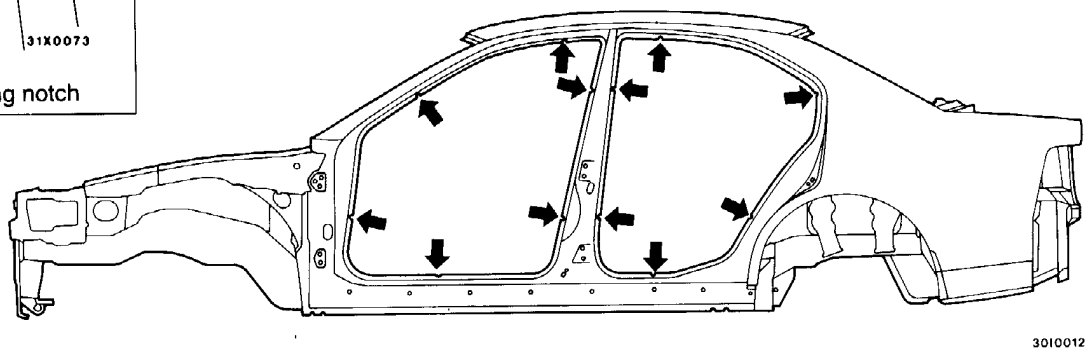

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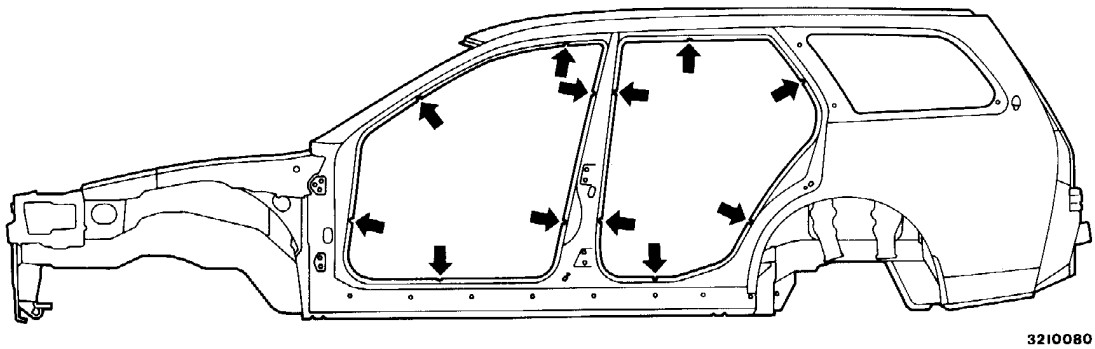

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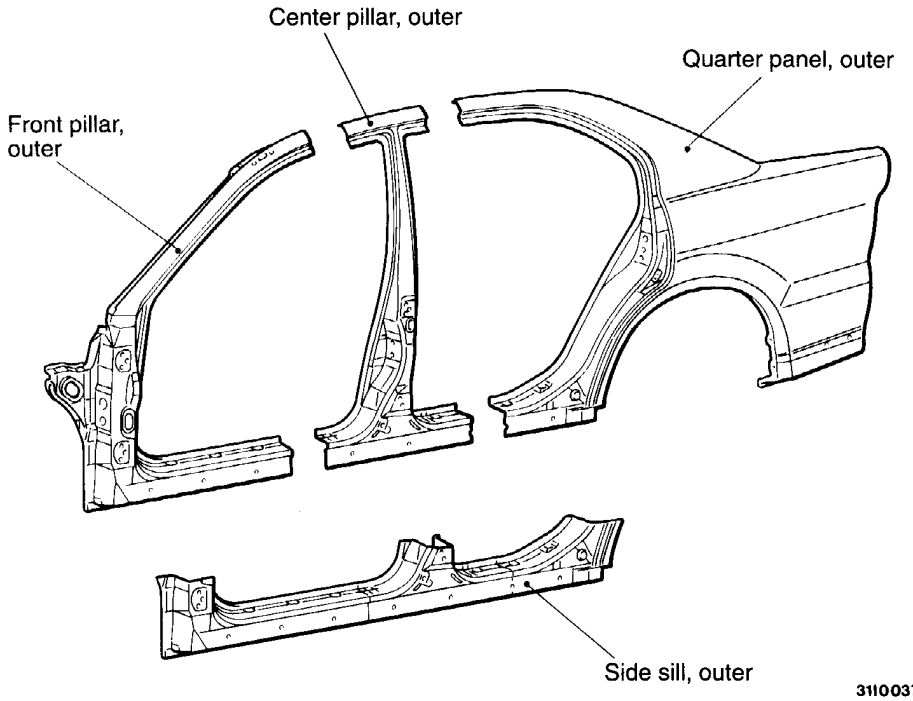
SIDE OUTER PANEL

Parts are supplied in the following cut forms in conjunction with the use of an integrated side outer panel.

<Sedan>



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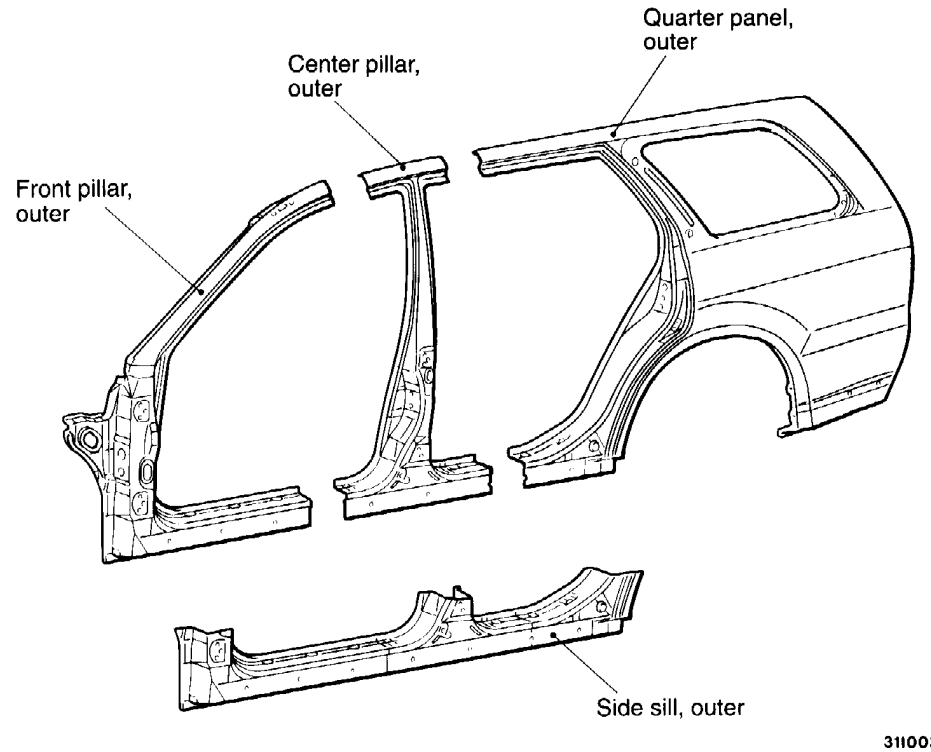
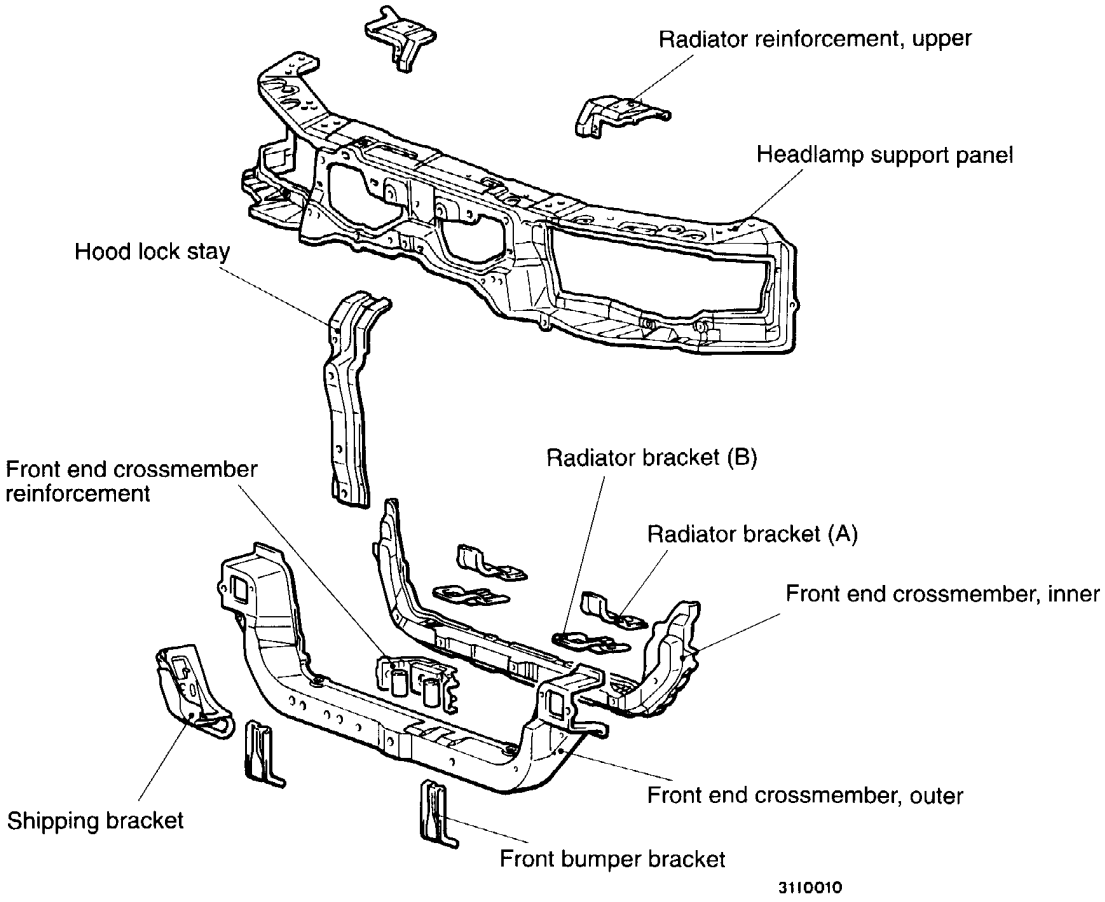


FRONT BODY

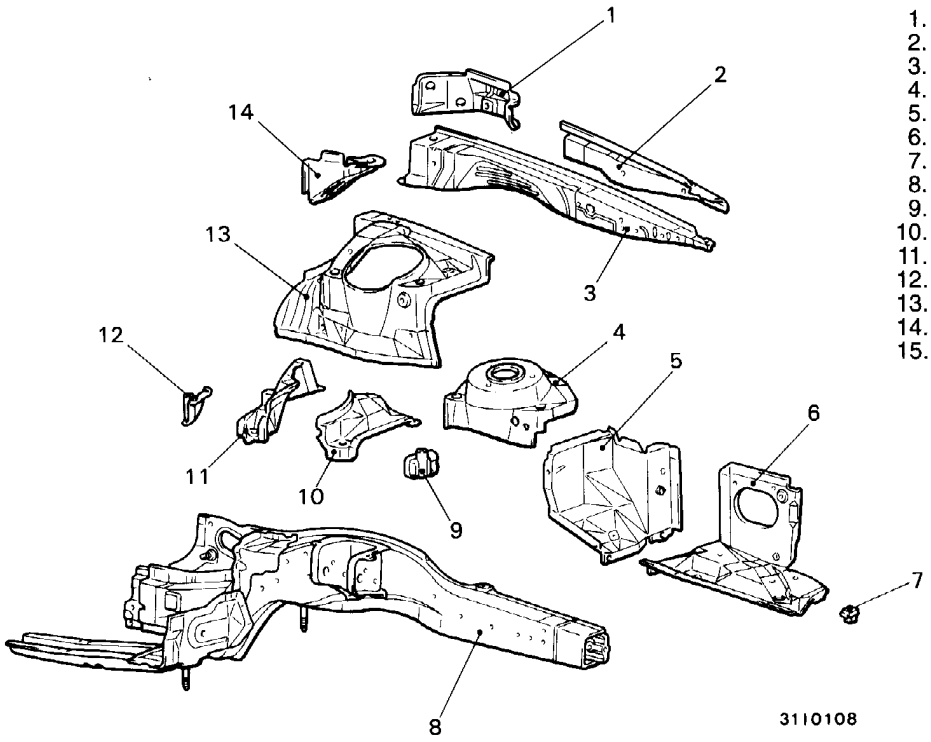
HEADLAMP SUPPORT

The headlamp support has been integrated into a single unit in order to improve installation precision to the body and to reduce weight.



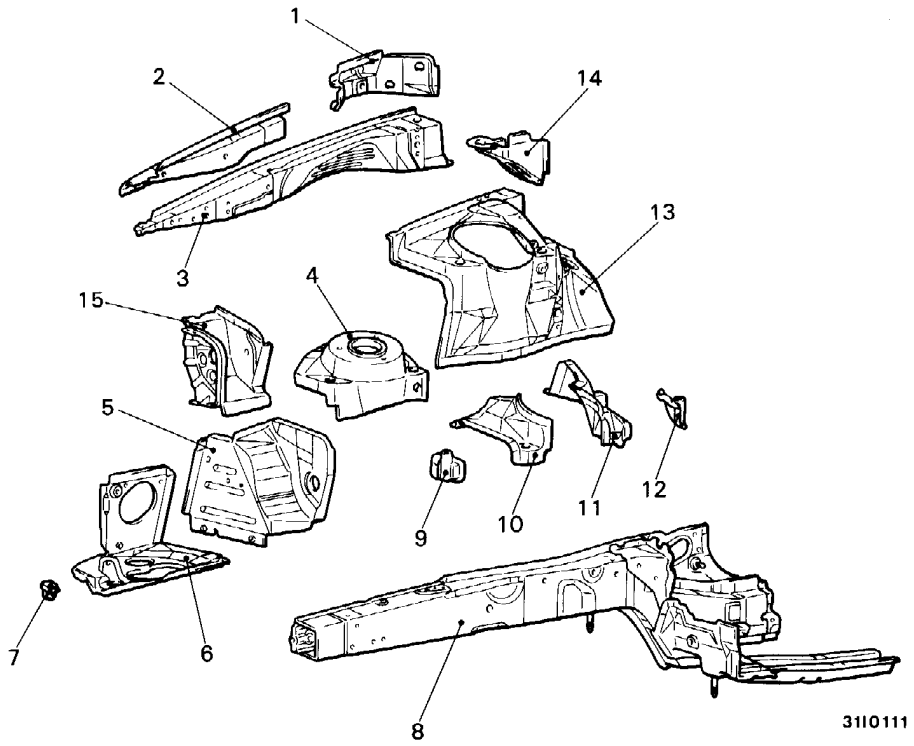
FENDER SHIELD

<Left side>



1. Upper frame bulkhead
2. Front upper frame, outer
3. Front upper frame, inner
4. Spring house bracket
5. Front fender shield
6. Shield plate
7. Horn bracket
8. Front sidemember
9. Upper arm pipe support, front
10. Spring house reinforcement, front
11. Spring house reinforcement, rear
12. Upper arm pipe support, rear
13. Spring house panel
14. Front upper frame gusset
15. Engine mounting bracket

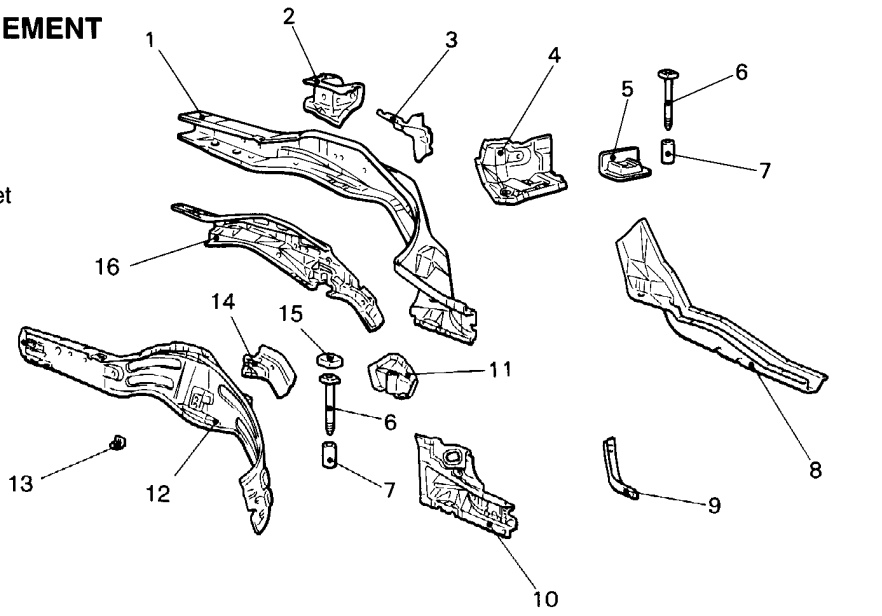
<Right side>



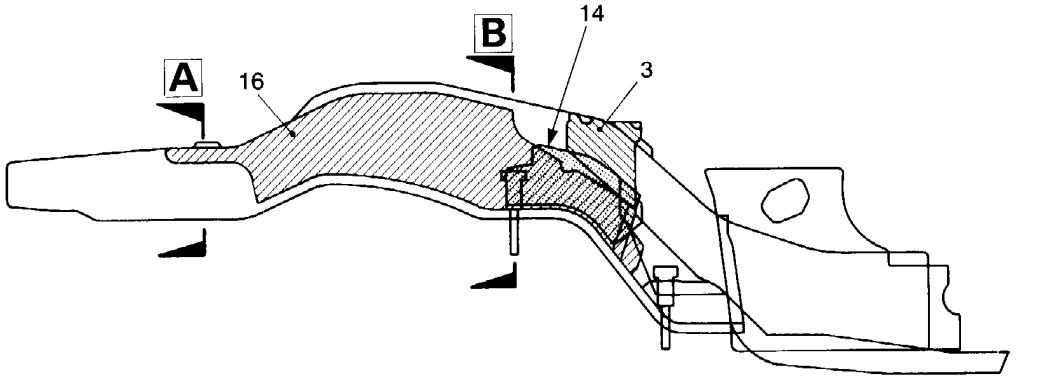
FRONT SIDEMEMBER REINFORCEMENT

(Left side)

1. Front sidemember, inner
2. Transmission mounting bracket
3. Front sidemember to dash panel gusset
4. Dash panel crossmember, side
5. Pipe support
6. Square head bolt
7. Pipe
8. Front sidemember, rear
9. Dash panel extension, side
10. Front floor side sill, inner, front
11. Pipe support, rear
12. Front sidemember, outer
13. Brake hose bracket
14. Front sidemember outer reinforcement
15. Retainer
16. Front sidemember reinforcement, front



3110109



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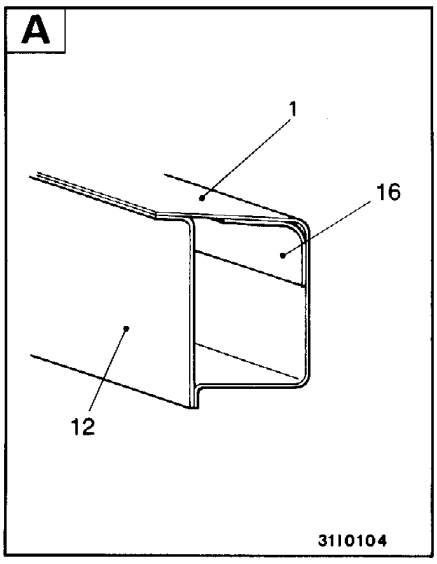

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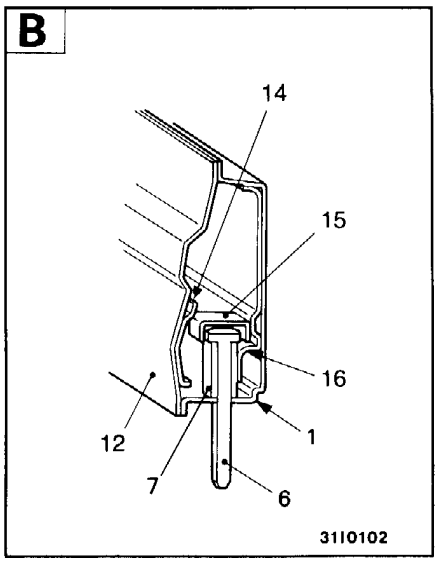
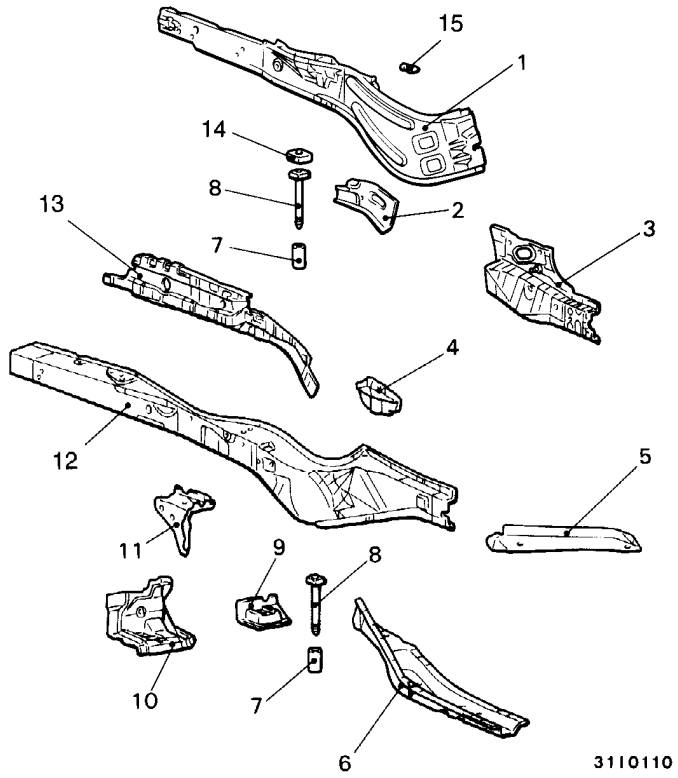
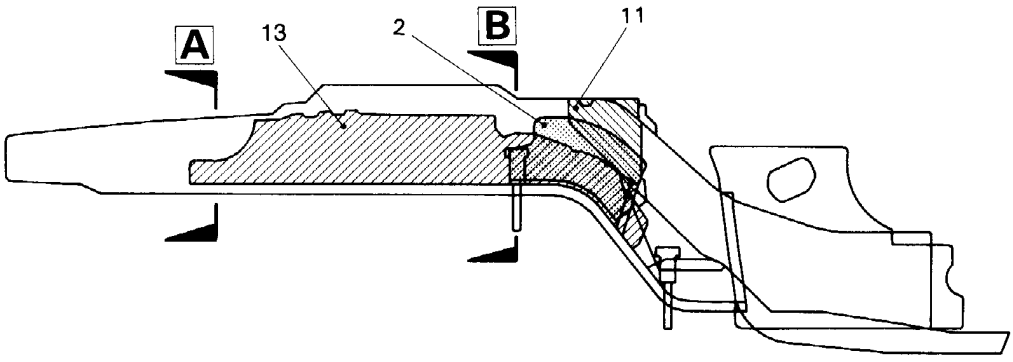


3110102

(Right side)

1. Front sidemember, outer
2. Front sidemember outer reinforcement
3. Front floor side sill, inner, front
4. Pipe support, rear
5. Dash panel extension, side
6. Front sidemember, rear
7. Pipe
8. Square head bolt
9. Pipe support
10. Dash panel crossmember, side
11. Front sidemember to dash panel gusset
12. Front sidemember, inner
13. Front sidemember reinforcement, front
14. Retainer
15. Brake hose bracket





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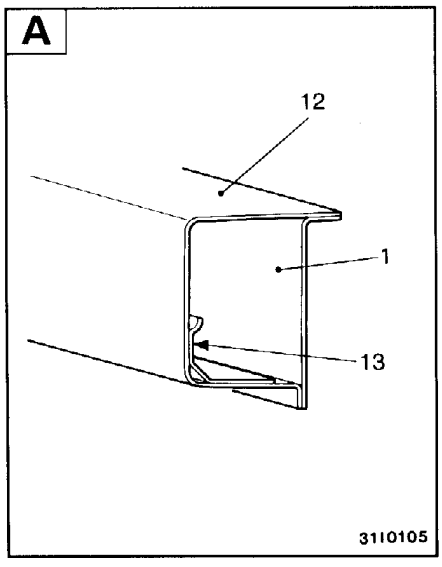
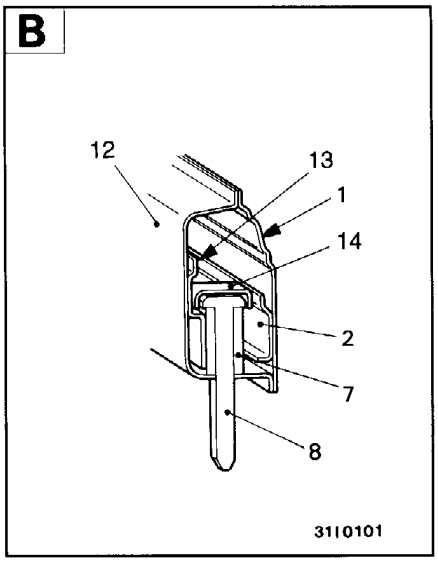
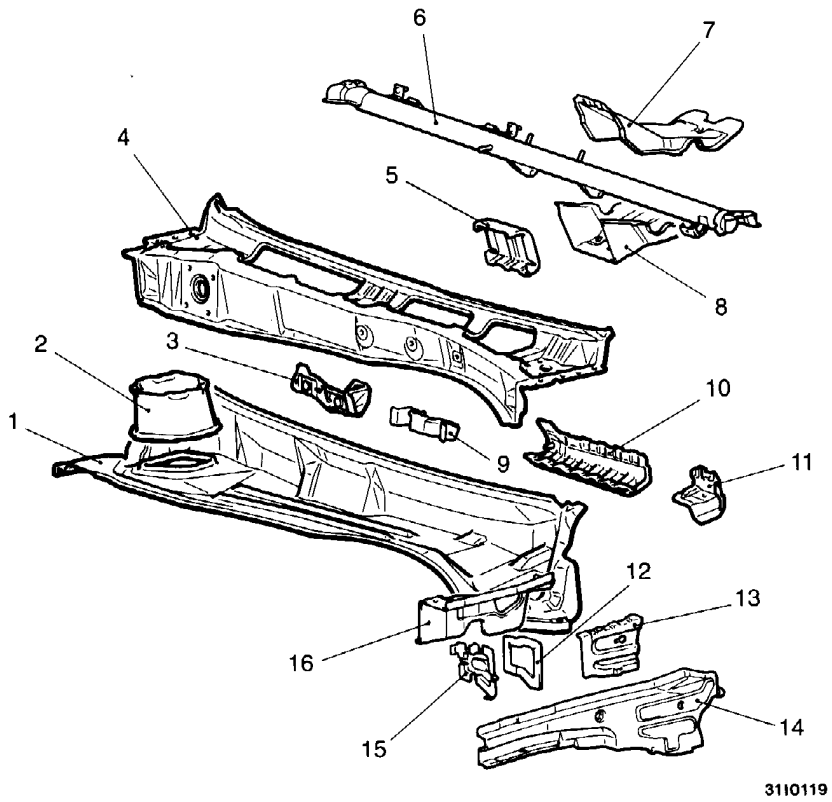




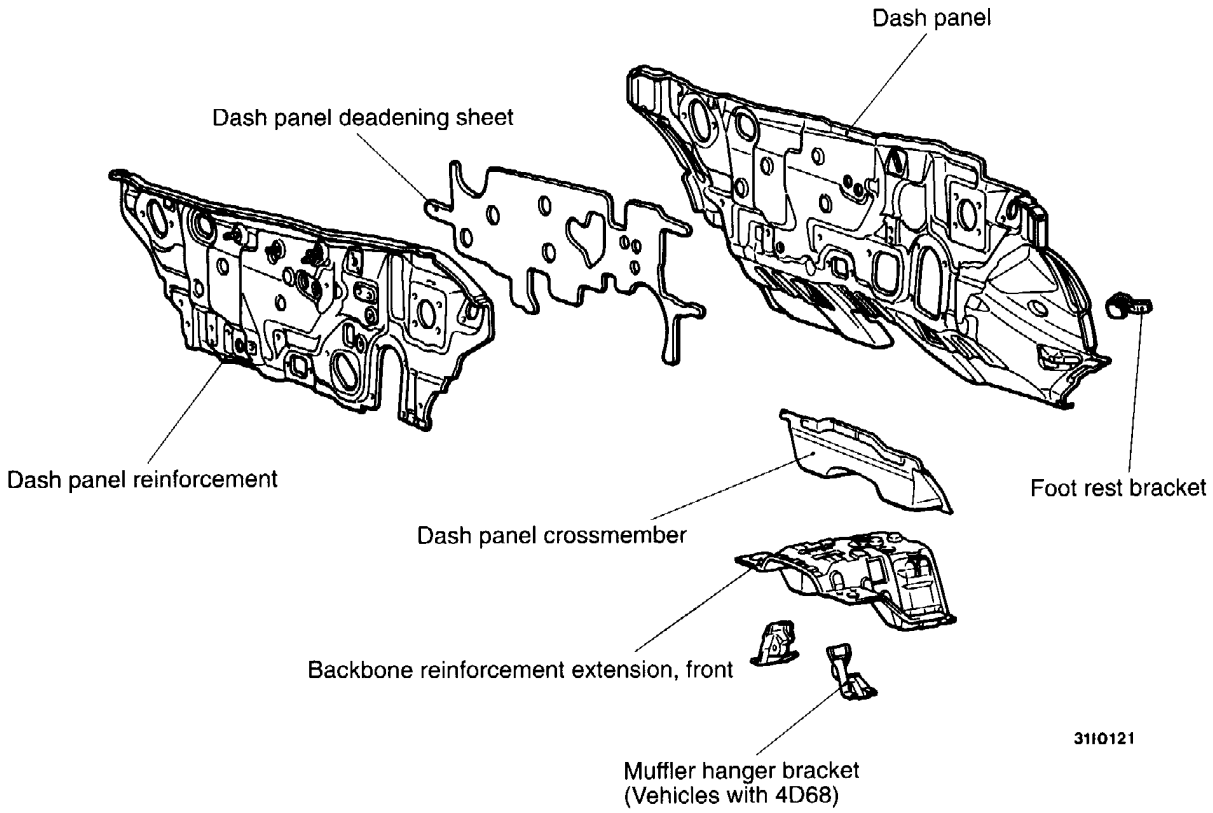
FRONT DECK

The deck crossmember joints have been filled with foaming agent in order to increase the rigidity of the joints with the pillars.



1. Cowl top panel, inner
2. Air intake duct
3. Air control unit bracket (B)
4. Cowl top panel, outer
5. Steering column support bracket, front
6. Front deck crossmember
7. Steering column support bracket, upper
8. Steering column support bracket, lower
9. Air control unit bracket (A)
10. Pedal support bracket (B)
11. Pedal support bracket (A)
12. Front deck side silencer
13. Front upper frame reinforcement
14. Front upper frame extension, outer
15. Water guide panel
16. Front upper frame extension, inner

DASH PANEL



SIDE BODY

SIDE STRUCTURE

The side outer panel has been integrated into a single unit in order to improve installation precision to the body.

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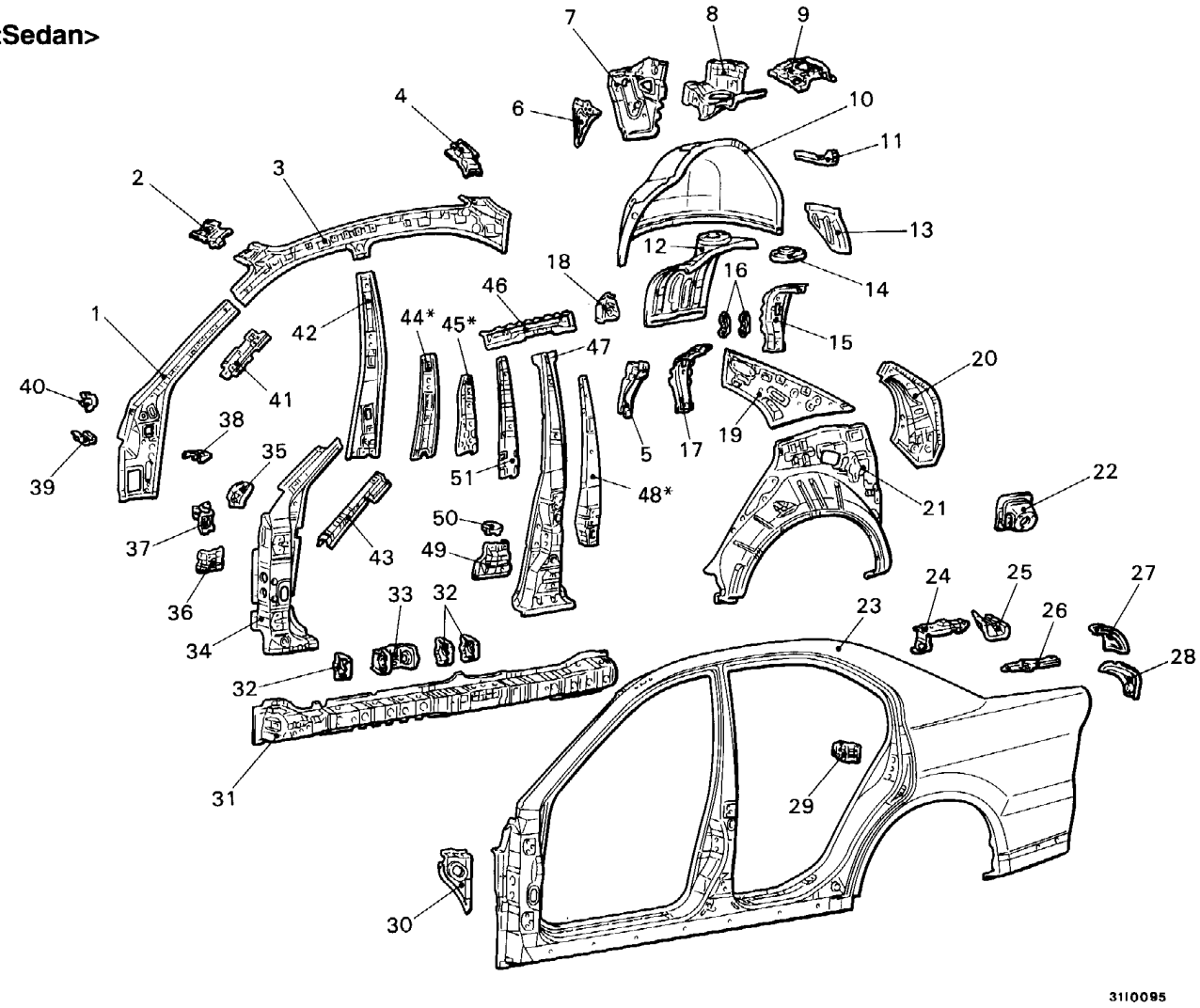
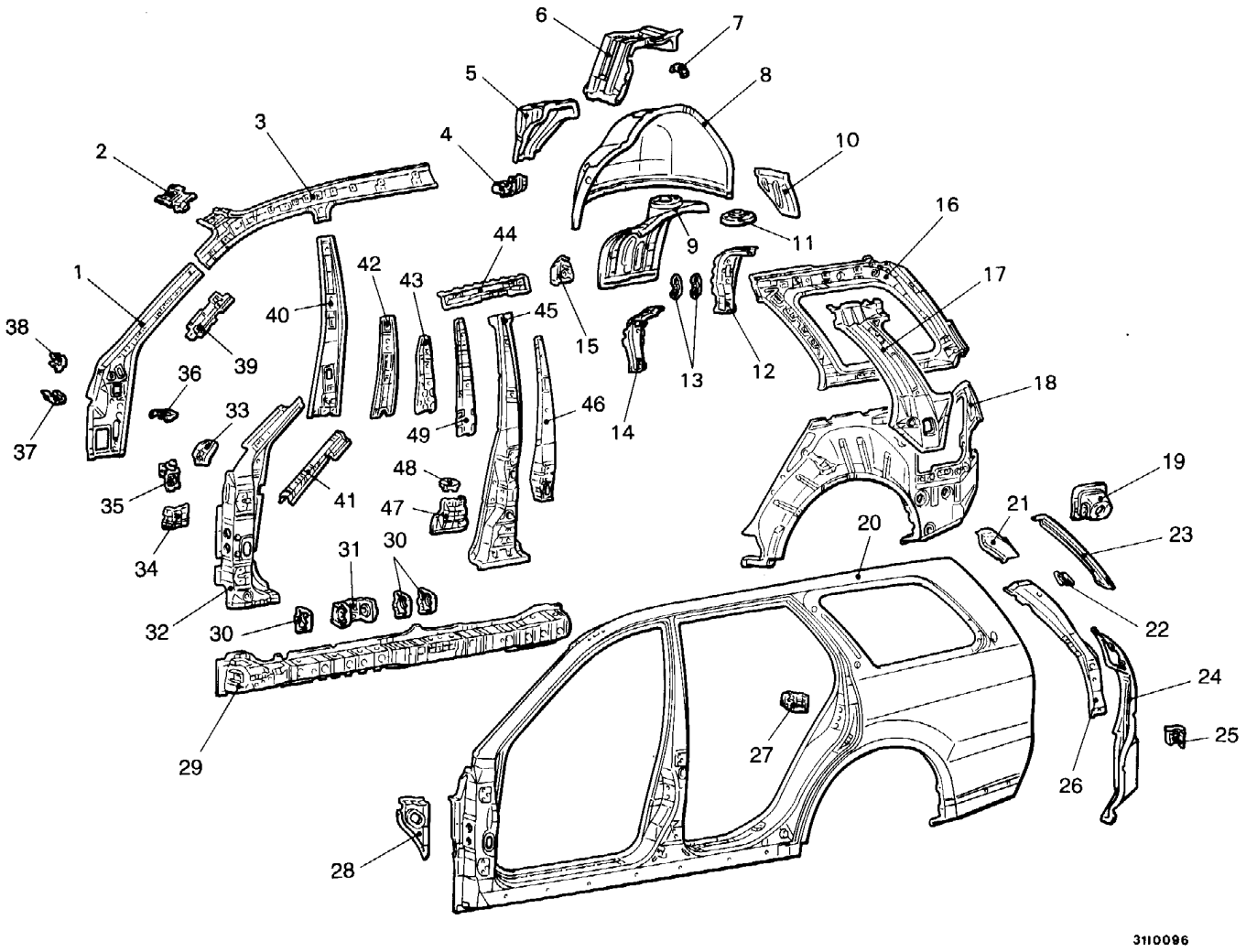


1. Front pillar, inner
2. Front pillar rigid foam support
3. Side roof rail, inner
4. Rear pillar rigid foam support
5. Seat back brace extension, upper
6. Seat back brace, lower
7. Rear deck crossmember extension, rear
8. Rear deck crossmember extension, front
9. Seatbelt reinforcement
10. Rear wheelhouse, inner
11. Rear spring house gusset
12. Spring house panel
13. Shield plate, rear
14. Rear spring house bracket
15. Upper arm reinforcement, rear
16. Upper arm reinforcement
17. Upper arm reinforcement, front
18. Shield plate, front
19. Rear pillar, inner
20. Rear pillar reinforcement
21. Quarter panel, inner
22. Fuel filler neck bracket (right side)
23. Side outer panel
24. Rear shelf brace, upper
25. Rear shelf brace, lower
26. Quarter panel trunk side support
27. Quarter corner panel
28. Rear end outer extension
29. Striker reinforcement
30. Side outer front extension
31. Side sill reinforcement
32. Side sill bulkhead
33. Side sill reinforcement (A)
34. Front pillar reinforcement
35. Front pillar reinforcement extension
36. Front pillar reinforcement, lower
37. Crossmember bracket, front
38. Front door check reinforcement
39. Crossmember bracket, lower
40. Crossmember bracket, rear
41. Front pillar reinforcement, inner
42. Center pillar, inner
43. Front pillar reinforcement, outer
44. Center pillar reinforcement, inner
45. Center pillar beltline reinforcement
46. Center pillar reinforcement, upper
47. Center pillar reinforcement
48. Center pillar outer reinforcement
49. Center pillar reinforcement, lower
50. Rear door check bulkhead
51. Center pillar seatbelt reinforcement

*: Vehicles for Europe

<Wagon>



1. Front pillar, inner
2. Front pillar rigid foam support
3. Side roof rail, inner
4. Rear floor crossmember brace
5. Rear floor side crossmember
6. Rear seatbelt bracket
7. Rear seatbelt reinforcement
8. Rear wheelhouse, inner
9. Spring house panel
10. Shield plate, rear
11. Rear spring house bracket
12. Upper arm reinforcement, rear
13. Upper arm reinforcement
14. Upper arm reinforcement, front
15. Shield plate, front
16. Quarter inner panel, upper
17. Rear pillar reinforcement
18. Quarter inner panel, lower
19. Fuel filler neck bracket (right side)
20. Side outer panel
21. Gate pillar upper reinforcement
22. Gas spring reinforcement
23. Quarter outer extension, upper
24. Quarter outer extension, lower
25. Damper bracket
26. Gate pillar reinforcement, center
27. Striker reinforcement
28. Side outer front extension
29. Side sill reinforcement
30. Side sill bulkhead
31. Side sill reinforcement (A)
32. Front pillar reinforcement
33. Front pillar reinforcement extension
34. Front pillar reinforcement, lower
35. Crossmember bracket, front
36. Front door check reinforcement
37. Crossmember bracket, lower
38. Crossmember bracket, rear
39. Front pillar reinforcement, inner
40. Center pillar, inner
41. Front pillar reinforcement, outer
42. Center pillar reinforcement, inner
43. Center pillar beltline reinforcement
44. Center pillar reinforcement, upper
45. Center pillar reinforcement
46. Center pillar outer reinforcement
47. Center pillar reinforcement, lower
48. Rear door check bulkhead
49. Center pillar seatbelt reinforcement

SIDE STRUCTURE REINFORCEMENTS

(1) Large reinforcements have been added to the front pillars to increase the rigidity of the body and to improve the rigidity of the joins with the side sills.
(2) Large reinforcements have been added to the center pillars to increase the rigidity of the body and to improve the rigidity of the joins with the side roof rails and side sills.
(3) The side sill has a large cross-sectional construction, and the addition of large reinforcements and bulkheads increase the rigidity of the body and also improve the ability of the side to withstand impacts.

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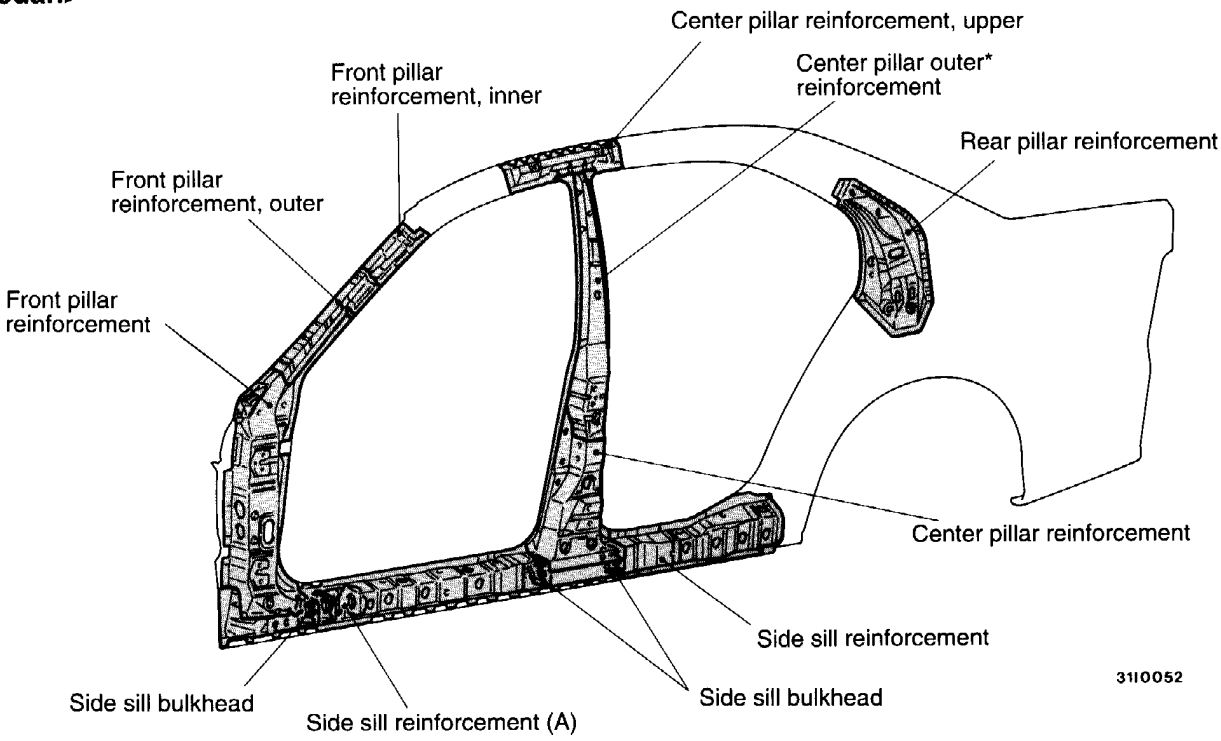

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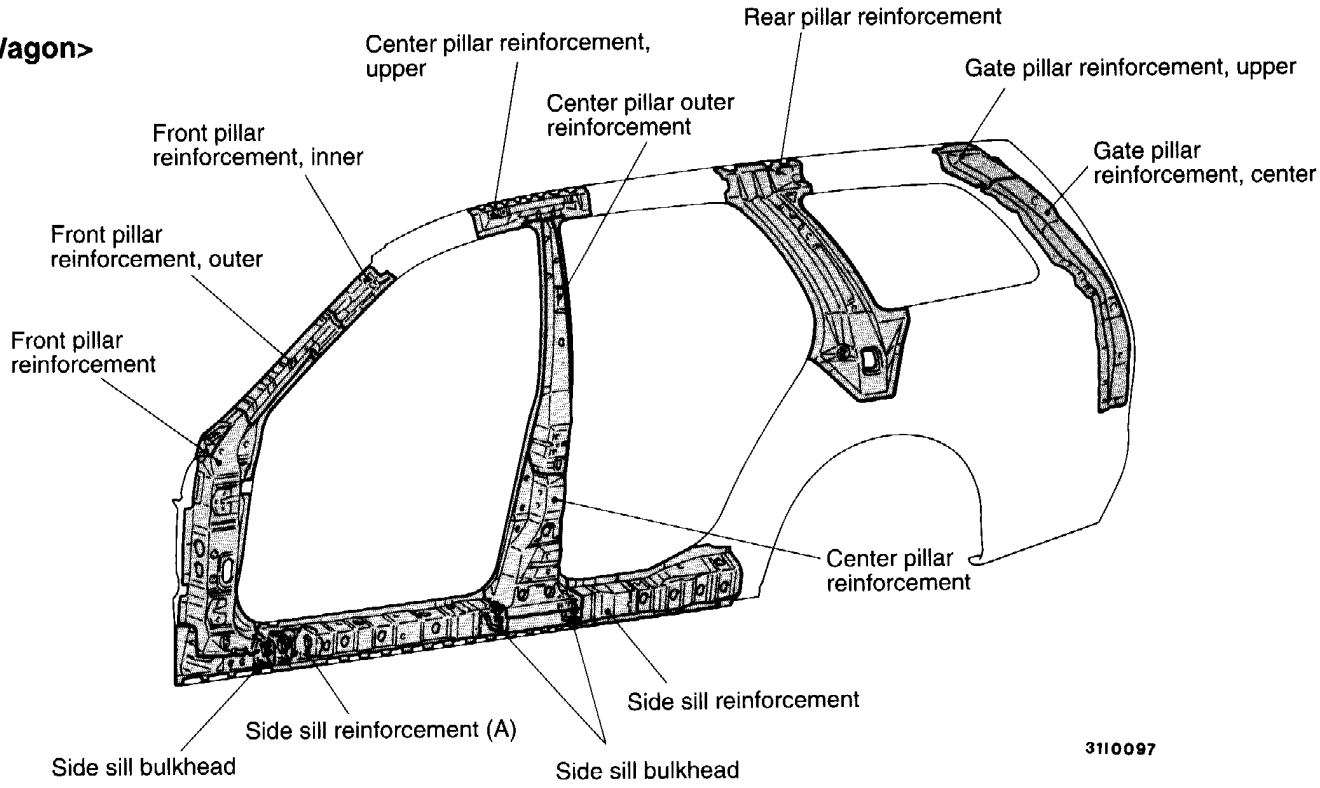
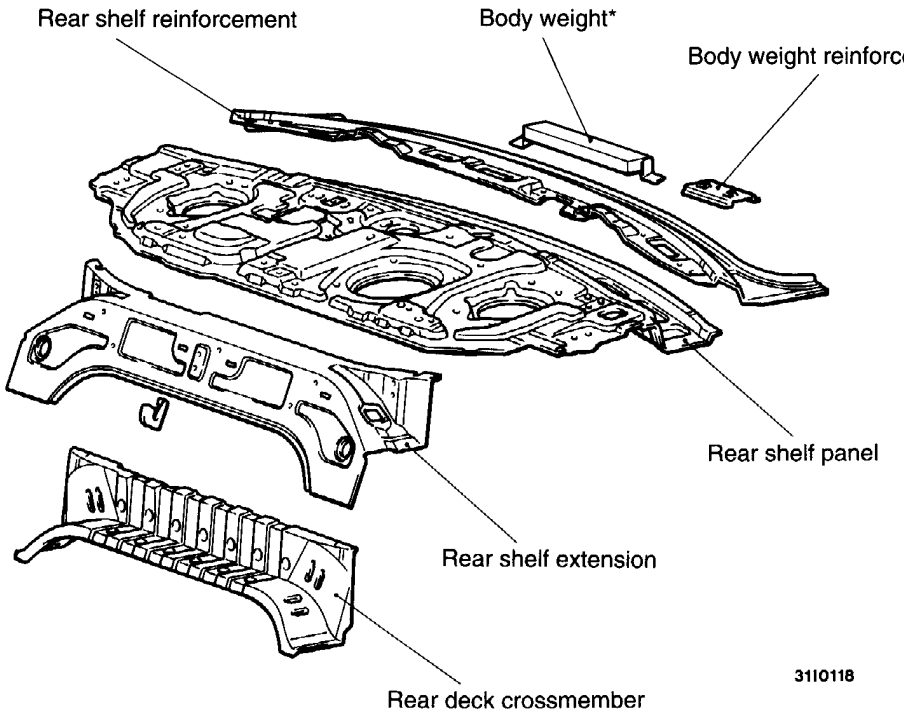


*: Vehicles for Europe

REAR BODY

REAR DECK

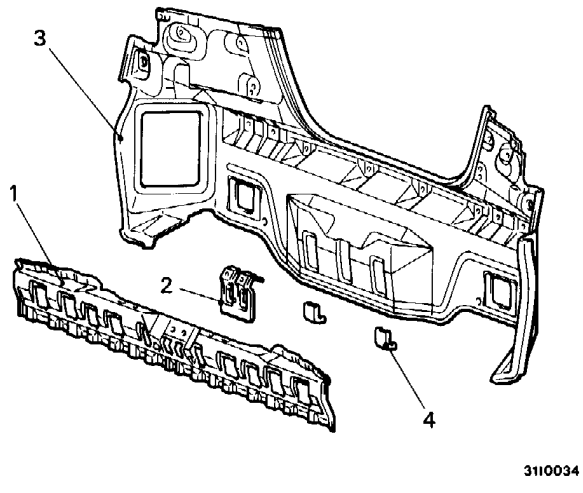
<Sedan>



*: Vehicles for General Export (except for Hong Kong and Chile)

REAR END PANEL

<Sedan>



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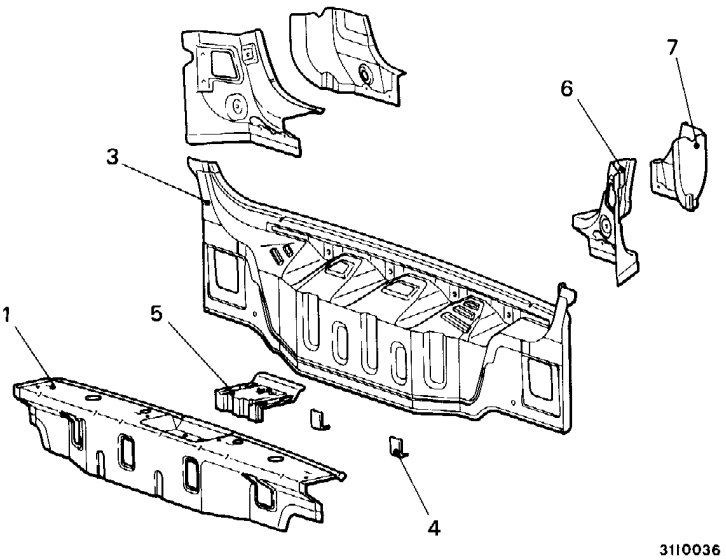
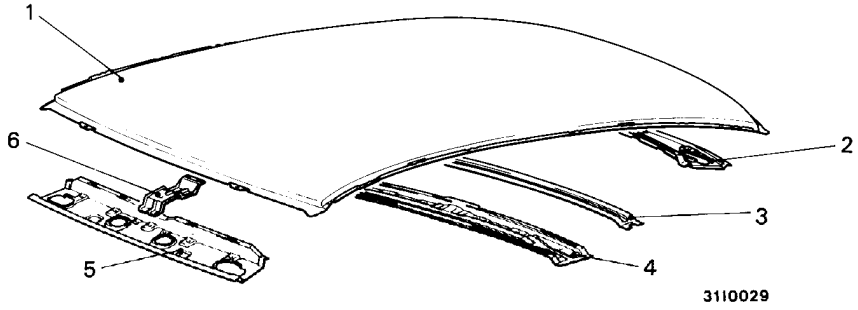


1. Rear end panel, inner
2. Trunk lid lock reinforcement
3. Rear end panel, outer
4. Rear bumper bracket, lower
5. Tailgate lock reinforcement
6. Rear end inner extension
7. Gate pillar reinforcement, lower

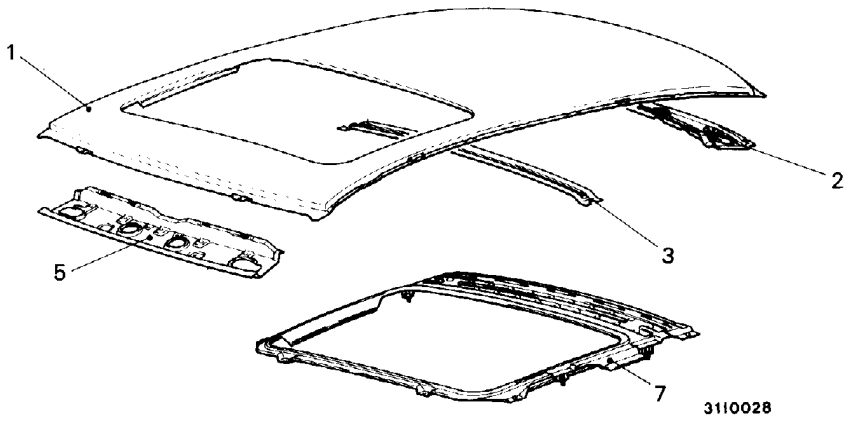
ROOF

<Sedan>

Standard roof



Sunroof



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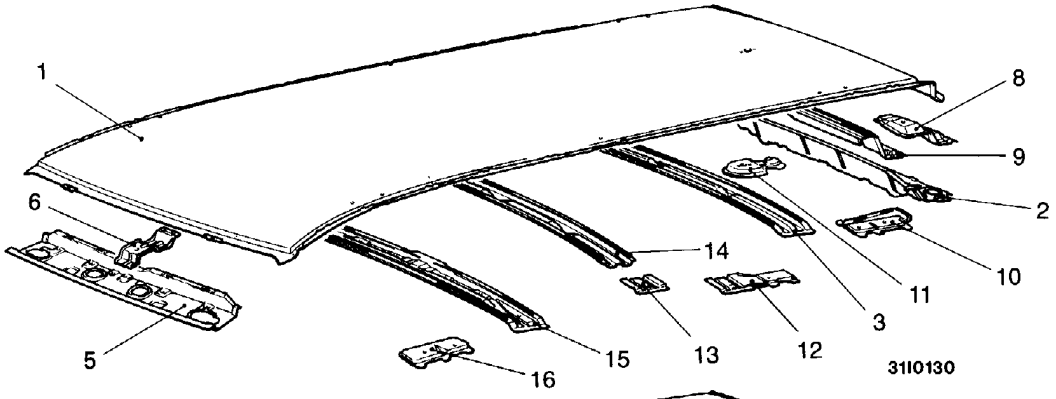
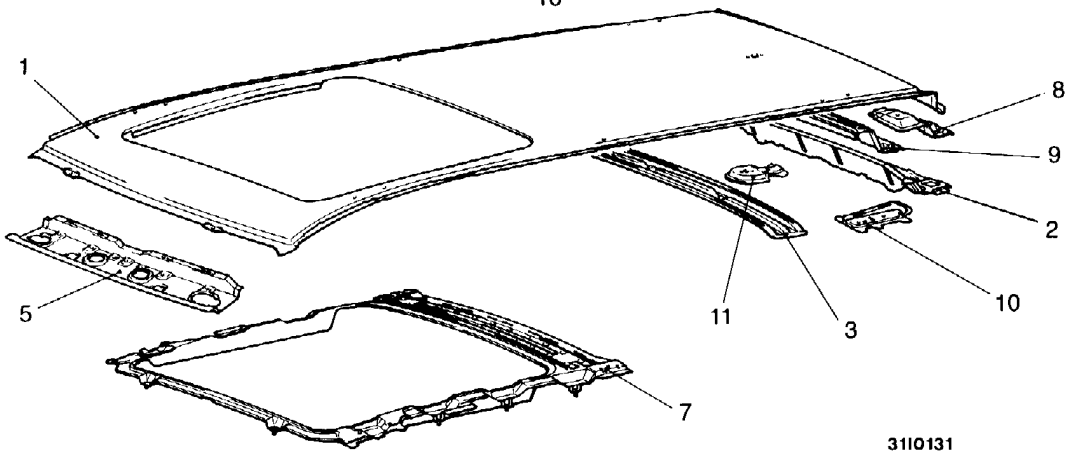
Standard roof



Sunroof

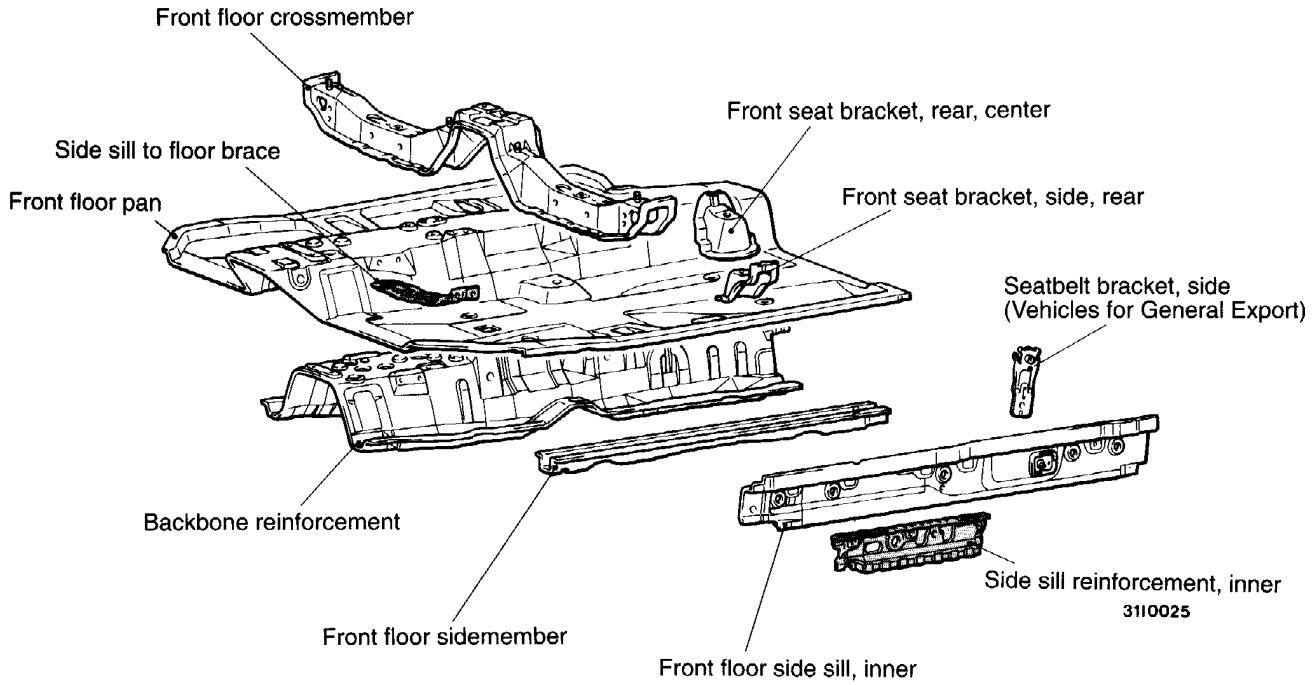


1. Roof panel
2. Rear roof rail, inner
3. Rear roof bow
4. Roof bow
5. Front roof rail, inner
6. Map lamp bracket
7. Roof reinforcement
8. Tailgate hinge reinforcement
9. Rear roof rail, outer
10. Roof rack reinforcement, rear
11. Roof antenna reinforcement
12. Roof rack reinforcement, center (A) (Vehicles with roof rail)
13. Roof rack reinforcement, center
14. Center roof bow
15. Front roof bow
16. Roof rack reinforcement, front (Vehicles with roof rail)

UNDER BODY

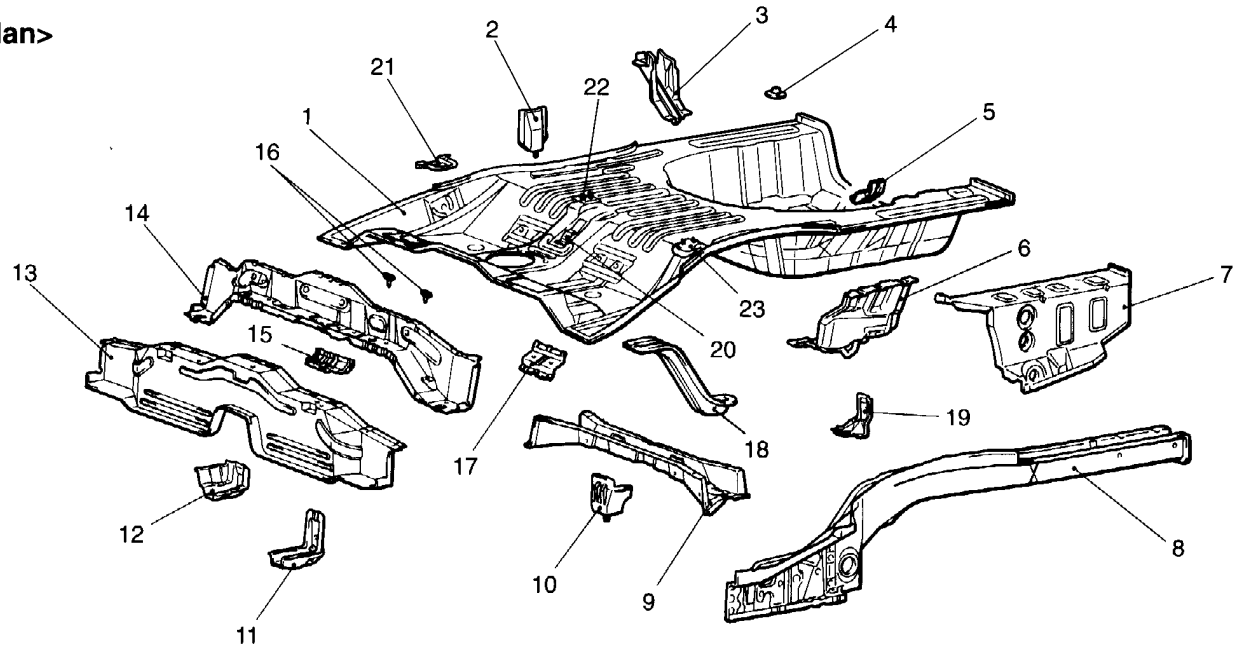
FRONT FLOOR

(1) A side sill to floor brace has been added to the top of the front floor in order to increase the strength and rigidity of the underbody.
(2) A side sill reinforcement, inner has been added to the front floor side sill, inner in order to increase the strength of the underbody.



REAR FLOOR

<Sedan>



3110141

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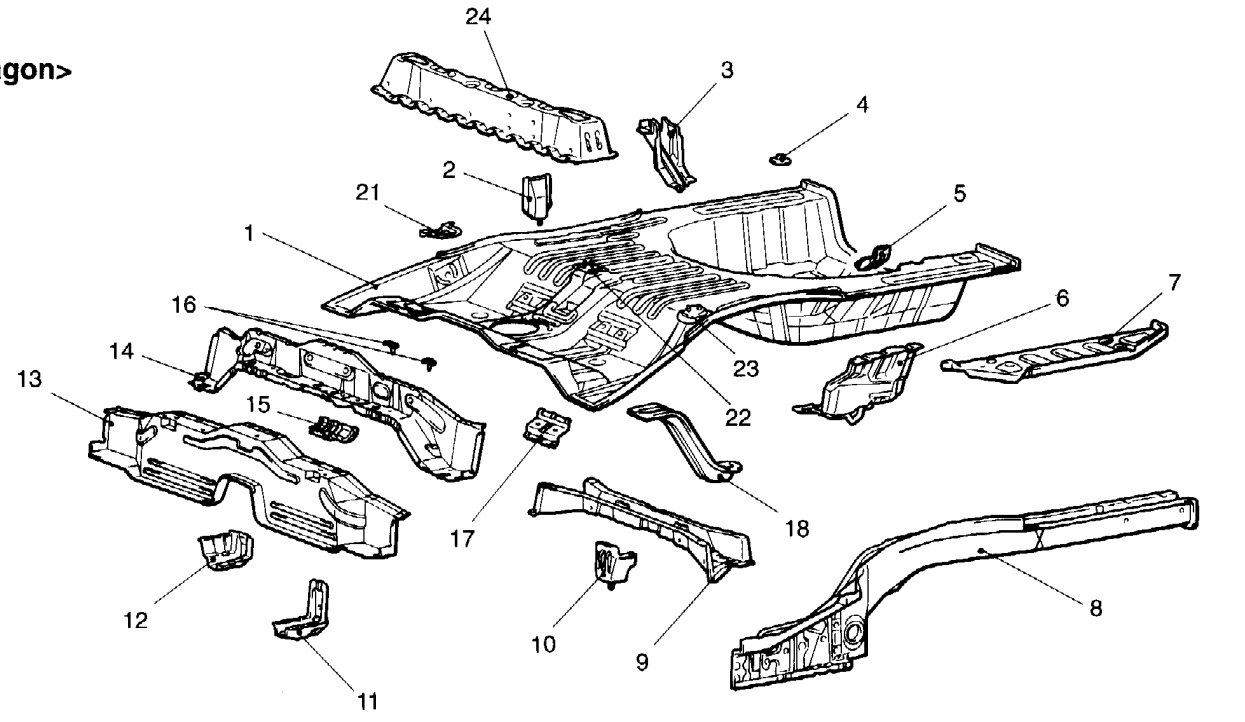
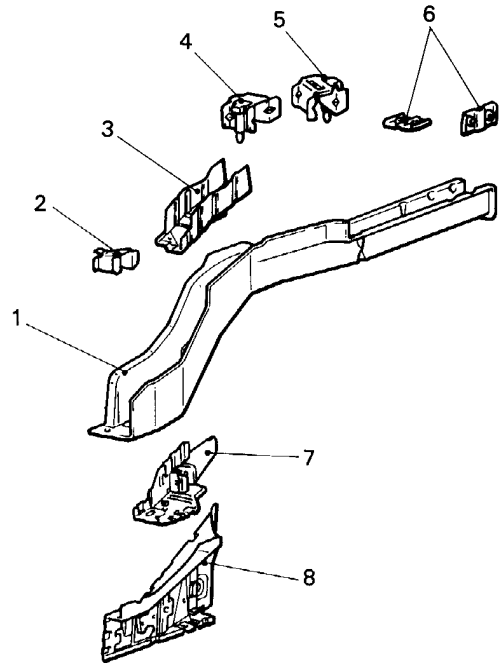


3110080

1. Rear floor pan
2. Fuel tank bracket, rear (right side)
3. Sipping bracket (right side)
4. Spare tire bracket
5. Jack bracket
6. Sipping bracket (left side)
7. Rear floor side brace
8. Sipping bracket (left side)
9. Rear floor crossmember
10. Fuel tank support bracket, rear
11. Front side crossmember extension
12. Backbone reinforcement extension, rear
13. Rear seat crossmember, front
14. Rear seat crossmember
15. Muffler hanger reinforcement, rear
16. Fuel tank support reinforcement
17. Rear floor seatbelt reinforcement
18. Garage jack bracket
19. Seatback brace extension, lower
20. Rear seat center bracket
21. Fuel tank bracket, front (right side)
22. Rear seat back center bracket
23. Rear seat back side bracket
24. Rear floor crossmember, upper

REAR FLOOR SIDEMEMBER REINFORCEMENT [Except for GCC]

1. Rear floor sidemember
2. Sidemember seatbelt reinforcement
3. Rear floor sidemember reinforcement
4. Rear suspension support bulkhead, front
5. Rear suspension support bulkhead, rear
6. Muffler hanger reinforcement, rear (left side)
7. Trailing arm bracket
8. Rear floor side sill, inner



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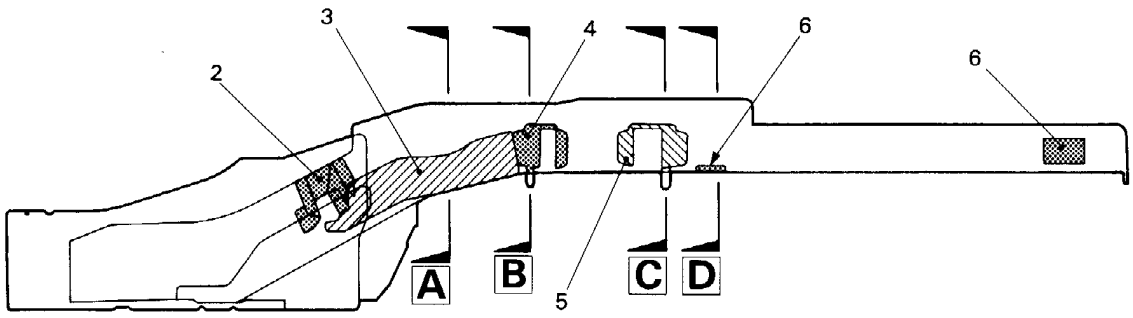

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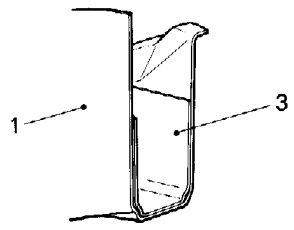

31X0136

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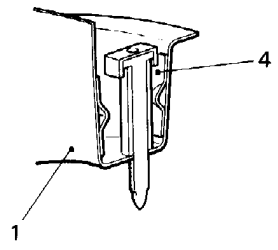

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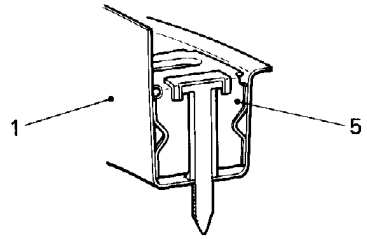

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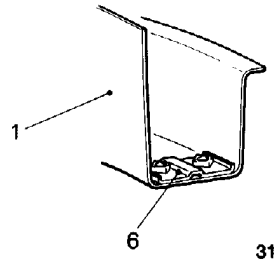
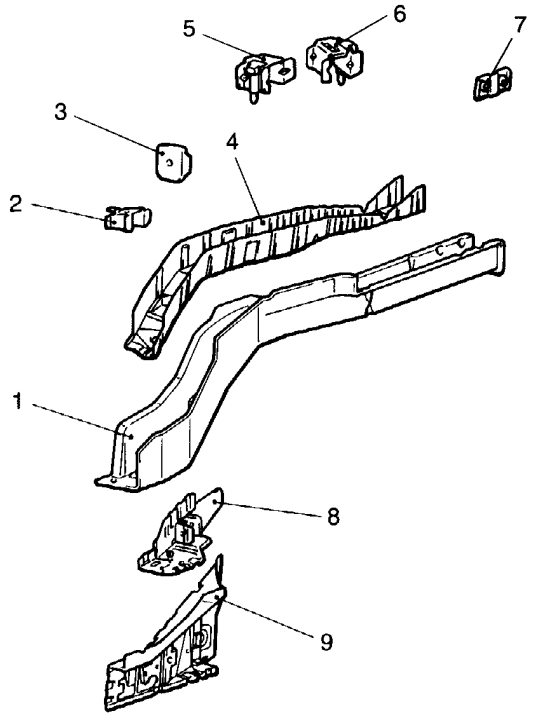


3110084

[Vehicles for GCC]

1. Rear floor sidemember
2. Sidemember seatbelt reinforcement
3. Rear floor sidemember bulkhead, front (right side)
4. Rear floor sidemember reinforcement
5. Rear suspension support bulkhead, front
6. Rear suspension support bulkhead, rear
7. Muffler hanger reinforcement, rear (left side)
8. Trailing arm bracket
9. Rear floor side sill, inner



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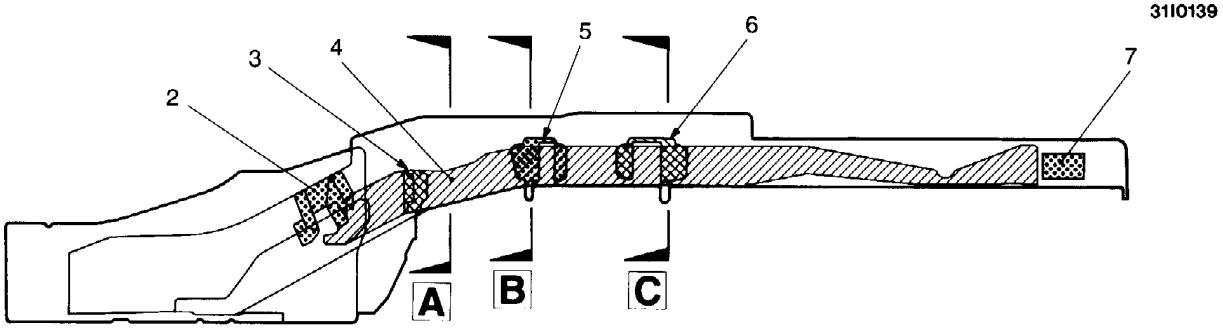

3110140

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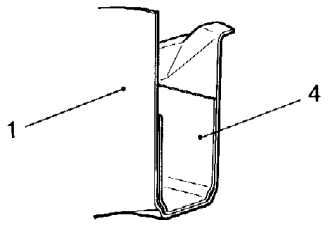

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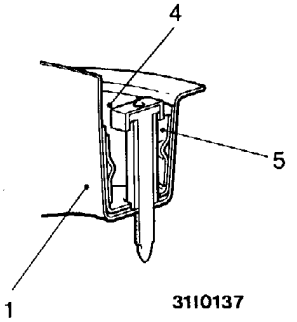
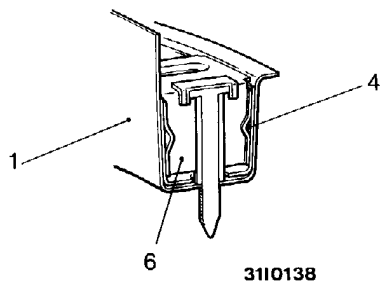
B



3110137

C

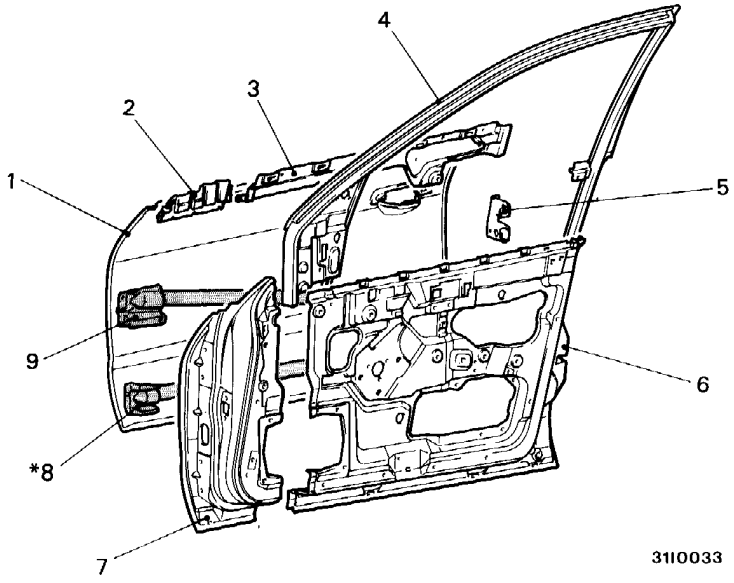


3110138

DOOR

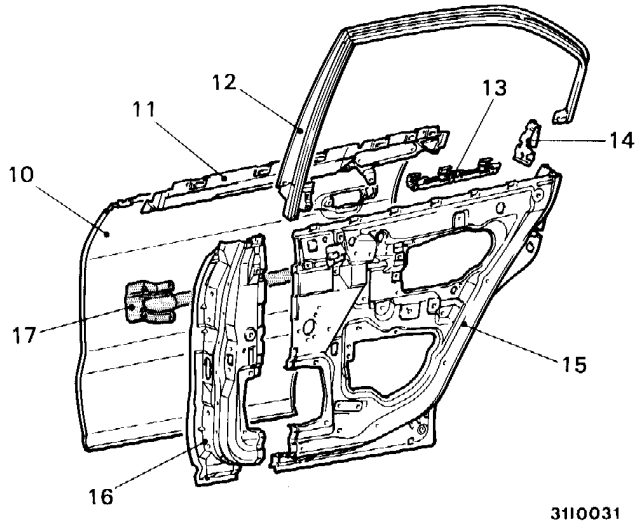
The doors have been equipped with reinforcements (side door beams) to protect the safety of passengers during a side impact.

Front door



Rear door

<Sedan>



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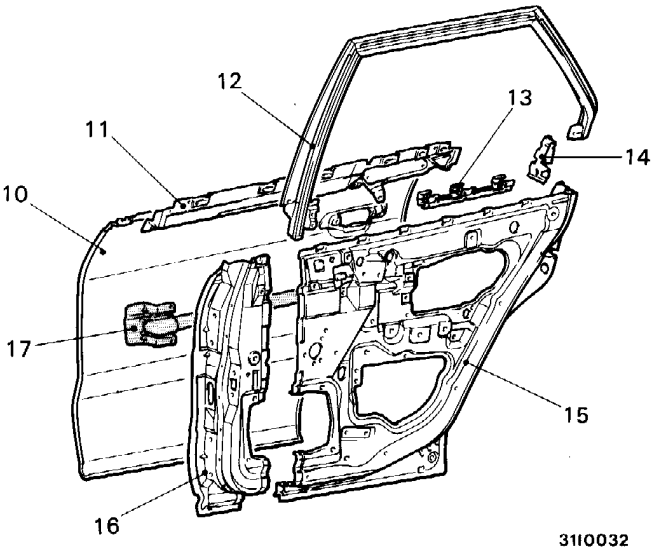
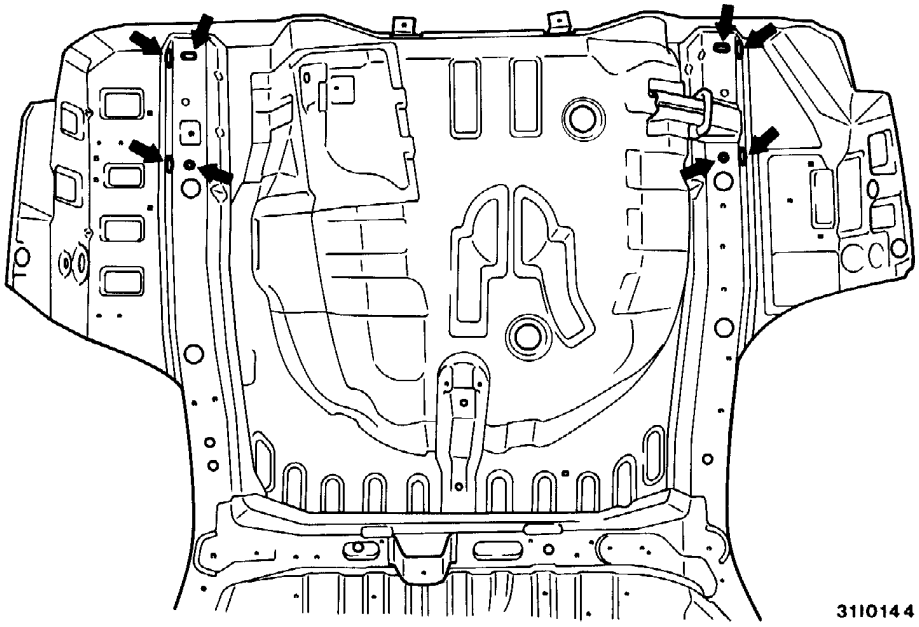


1. Front door outer panel
2. Front door beltline front bracket
3. Front door beltline reinforcement, outer
4. Front door window sash
5. Front door latch reinforcement
6. Front door panel, inner
7. Front door hinge panel
8. Front door side door beam, lower* (Vehicles for Europe)
9. Front door side door beam
10. Rear door outer panel
11. Rear door beltline reinforcement, outer
12. Rear door window sash
13. Rear door beltline bracket
14. Rear door latch reinforcement
15. Rear door panel, inner
16. Rear door hinge panel
17. Rear door side door beam

*: Vehicles for Europe

TOWING BAR MOUNTING LOCATIONS

(⬅ :Eight mounting locations)

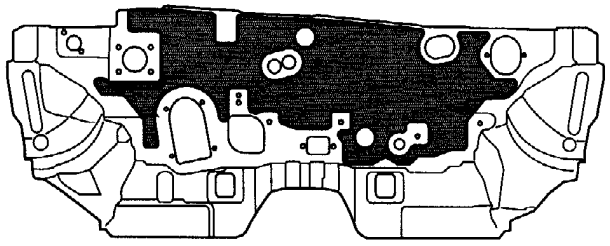


Rear floor, under

SILENCER APPLICATION LOCATIONS

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

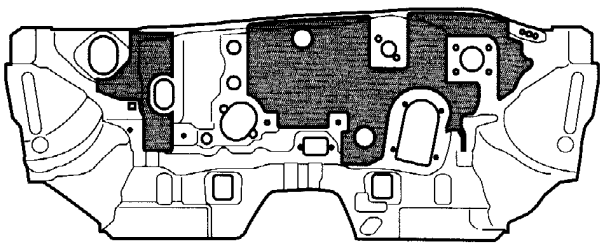
<L.H. drive vehicles>



3110122

Passenger compartment side of the dash panel

<R.H. drive vehicles>



3110077

Passenger compartment side of the dash panel

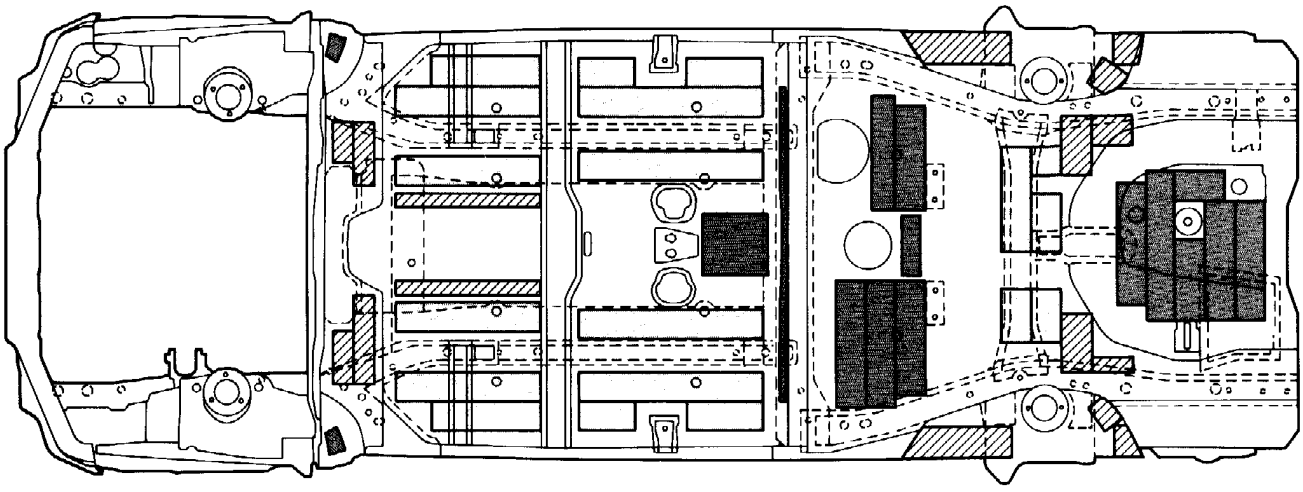
■ : 3.2 mm (two layers of 1.6 mm) thick silencer

SILENCER SPRAYING LOCATIONS

Spray–type anti–vibration silencers have been applied to the surface shown of the dash panel and the floor top in order to improve soundproofing.

NOTE:
When panels are replaced, the previous type of silencers should be attached.

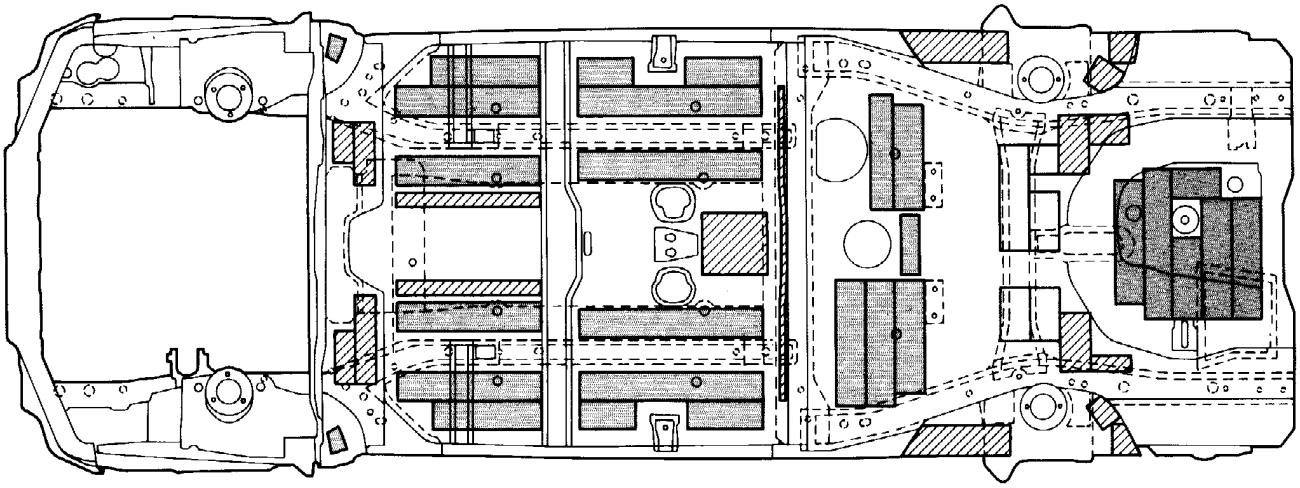
<Sedan>
Vehicles with 4G93 or 4G63 (Carburettor)



3110125

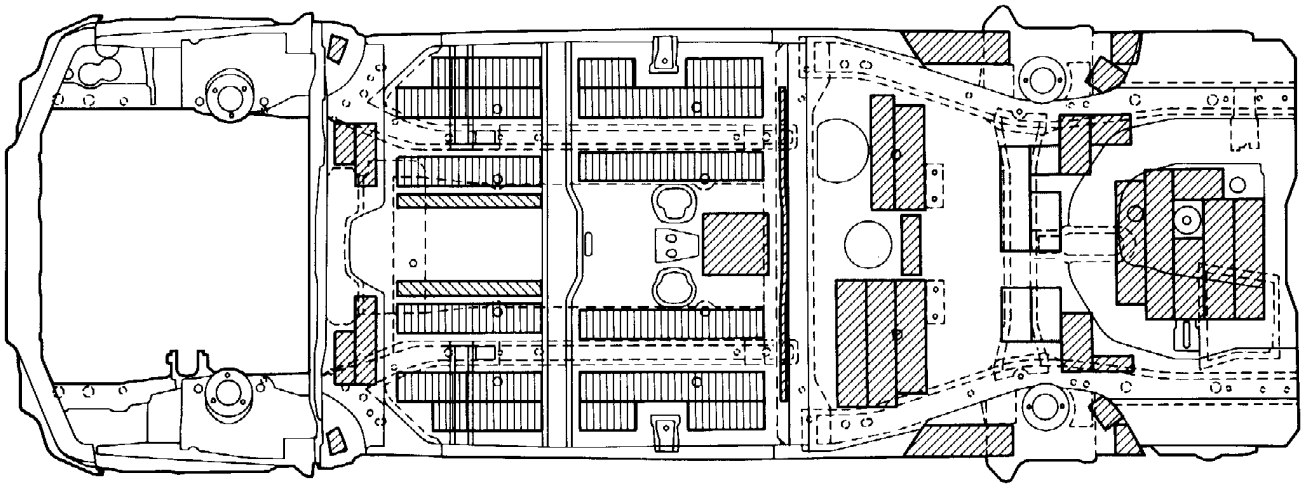
▒ : 1.5 mm thick (1.6 mm thick silencer)
■ : 2.0 mm thick (two layers of 1.6 mm thick silencers)
▨ : 3.0 mm thick (two layers of 1.6 mm thick silencers)

Vehicles with 4G63 (MPI) system or 6A13



3110126

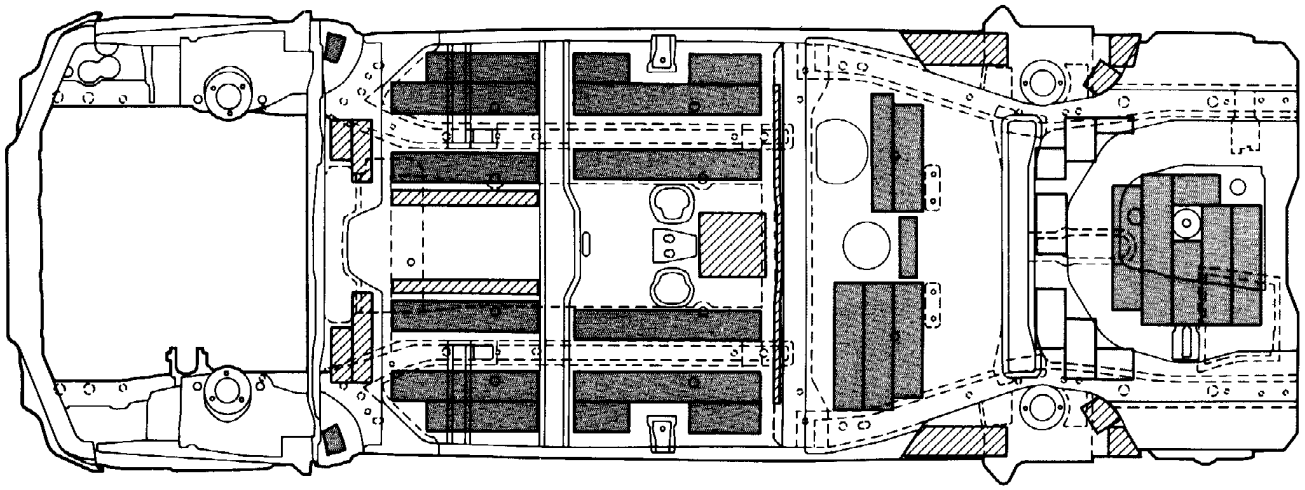
Vehicles with 4D68



3110127

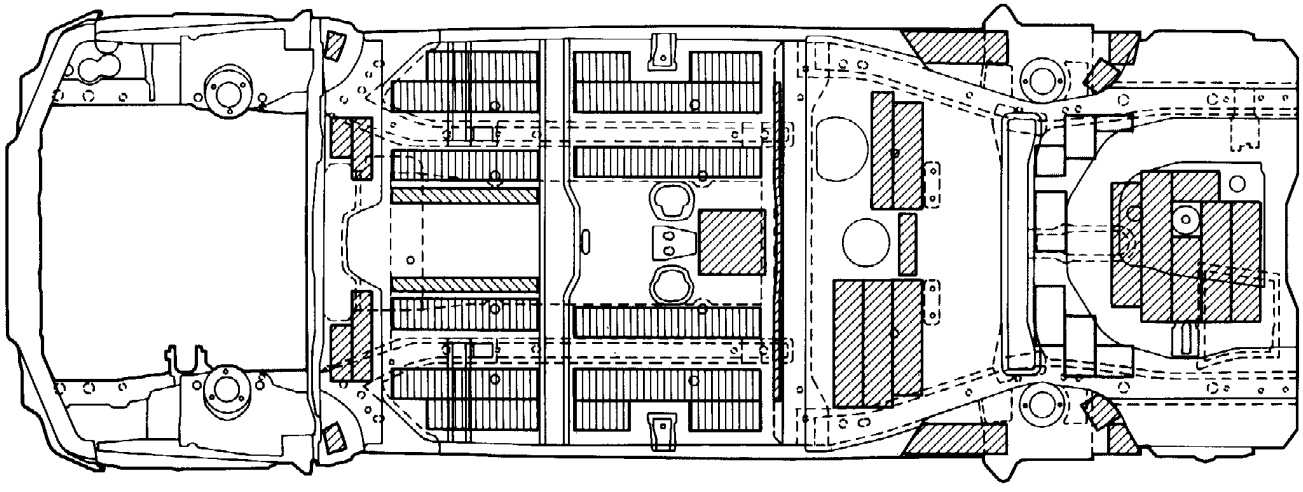
: 1.5 mm thick (1.6 mm thick silencer)
: 2.0 mm thick (two layers of 1.6 mm thick silencers)
: 2.5 mm thick (two layers of 1.6 mm thick silencers)
: 3.0 mm thick (two layers of 1.6 mm thick silencers)
: 3.5 mm thick (three layers of 1.6 mm thick silencers)

<Wagon>
Vehicles with 4G63 or 6A13



3110128

Vehicles with 4D68



3110129

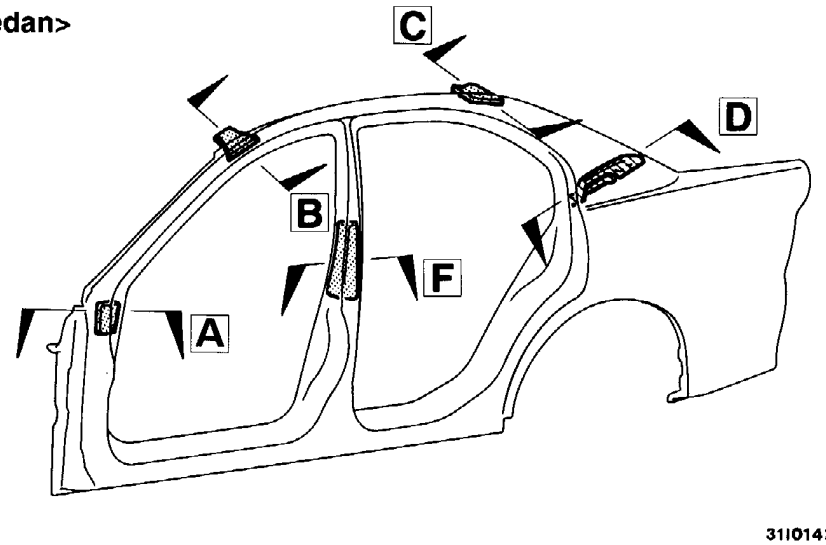
: 1.5 mm thick (1.6 mm thick silencer)
: 2.0 mm thick (two layers of 1.6 mm thick silencers)
: 2.5 mm thick (two layers of 1.6 mm thick silencers)
: 3.0 mm thick (two layers of 1.6 mm thick silencers)
: 3.5 mm thick (three layers of 1.6 mm thick silencers)

FOAMING AGENT USAGE LOCATIONS

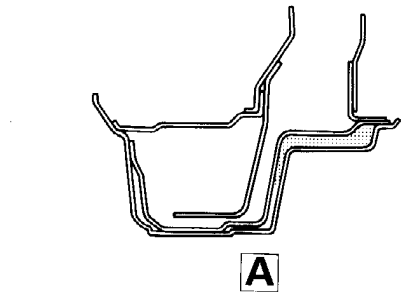
The pillars and roof rails have been filled with foaming agent in order to reduce columnar sound resonance. In addition, highly–rigid foaming agent has been adopted for the pillar joints where a high degree of rigidity is required, in order to provide additional cross–sectional rigidity.

Points to note when working with panels in foaming agent usage locations:
The foaming agent may ignite if it is heated, so the following points must be observed without fail.
(1) Do not use a gas burner or other similar equipment to heat the areas where foaming agent has been used.
(2) When cutting the areas where foaming agent has been used, use equipment (such as a pneumatic saw) which does not produce heat to make the cuts.
(3) If any foaming agent is remaining at the cutting locations (on the body side), clean off all foaming agent from around the area before carrying out welding.

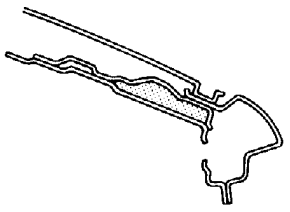
<Sedan>



3110142



3110054



3110053

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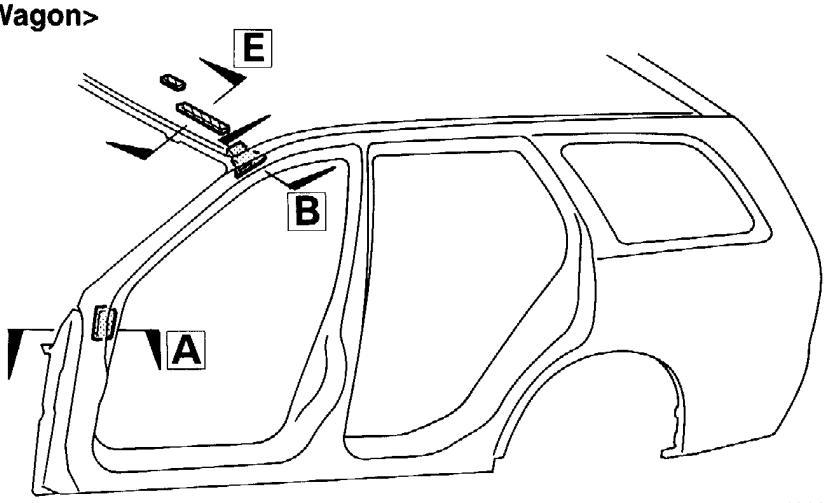

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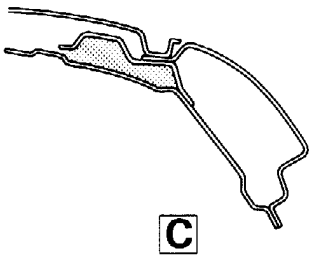

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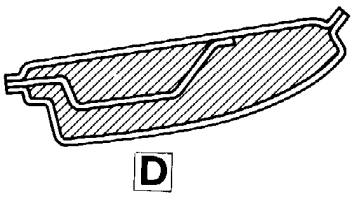

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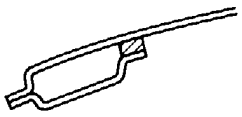


[Vehicles for General Export]

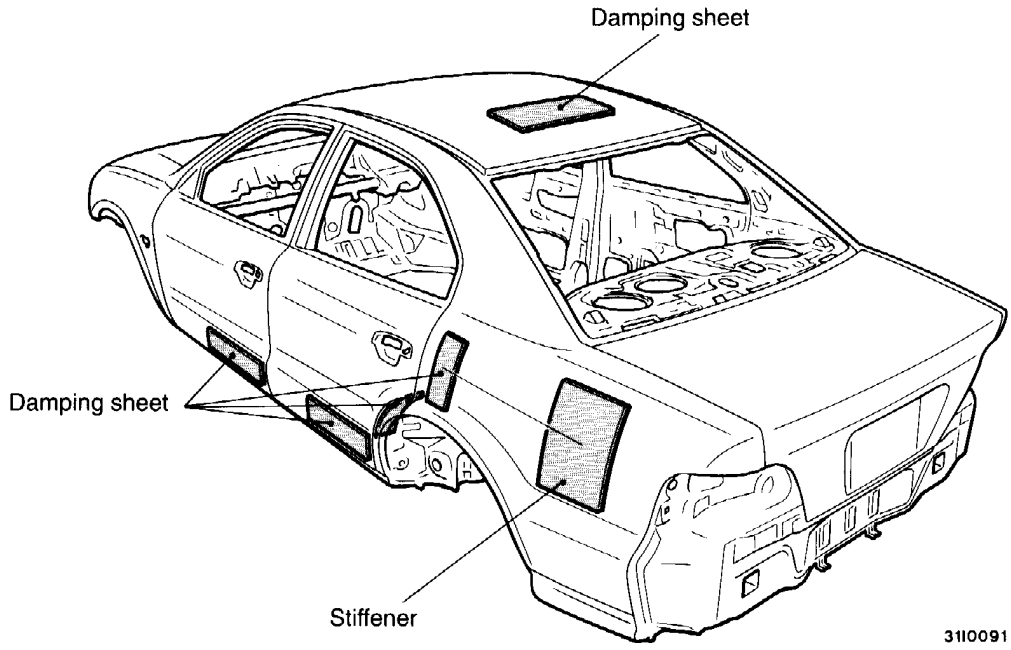
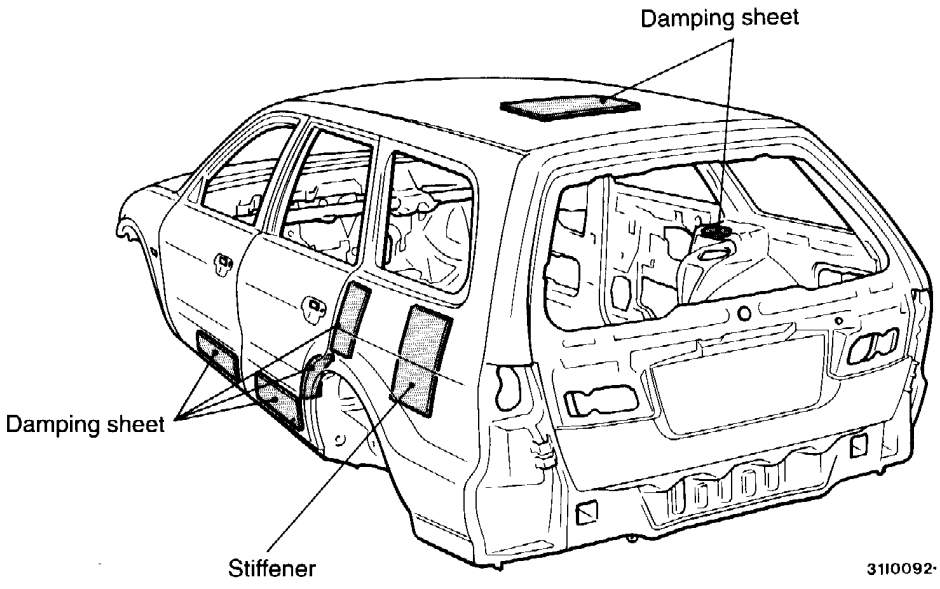
3110090

: High–rigidity foaming agent usage locations
: Foam soundproofing agent usage locations

STIFFENER AND DAMPING SHEET APPLICATION LOCATIONS

Stiffeners and damping sheets have been attached on the inside of the side outer panels, roof panel and front and rear door outer panels in order to increase the surface rigidity, and the anti–vibration effects also reduce noise.

<Sedan>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