GROUP 1

BODY CONSTRUCTION

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15. Spring house panel
16. Dash panel crossmember upper
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18. Dash panel
19. Brake pedal support reinforcement
20. Cowl top panel
21. Brake pedal support bracket
22. Front deck crossmember
23. Hood panel inner <Except RALLIART>
24. Hood panel outer <Except RALLIART>
25. Hood panel inner <RALLIART>
26. Hood panel outer <RALLIART>
27. Front door side door beam
28. Front door panel inner
29. Front door panel outer
30. Rear door side door beam
31. Rear door panel inner
32. Rear door panel outer
33. Roof rail front lower
34. Roof rail front upper
35. Roof bow center lower <Vehicles without sunroof>
36. Roof bow center upper <Vehicles without sunroof>
37. Roof rail rear inner
38. Liftgate hinge reinforcement
39. Roof rail rear outer
40. Roof panel
41. Roof panel reinforcement <Vehicles with sunroof>
42. Liftgate panel inner
43. Liftgate panel outer
44. Fuel filler door panel
45. Rear bumper reinforcement
46. Rear bumper center reinforcement
47. Rear end crossmember
48. Rear end inner crossmember
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52. Rear floor crossmember
53. Rear floor side panel
54. Rear floor sidemember extension
55. Rear floor sidemember lower
56. Rear floor crossmember upper
57. Rear seat under floor
58. Rear seat belt reinforcement
59. Rear seat belt reinforcement upper
60. Rear seat belt reinforcement lower
61. Rear floor extension
62. Rear floor rear seat under crossmember
63. Front floor crossmember rear
64. Front floor backbone reinforcement
65. Front floor crossmember front
66. Front floor
67. Front floor side sill inner
68. Front floor sidemember
69. Front floor crossmember rear center
70. Front floor crossmember front
71. Front fender
72. Battery tray stay rear (Left side)
73. Battery tray stay front (Left side)
74. Headlight support panel lower
75. Radiator bracket lower
76. Side outer panel
77. Front fender bracket lower
78. Upper frame to front pillar brace
79. Front deck frame upper outer
80. Side sill reinforcement outer front
81. Side sill reinforcement outer rear
82. Side sill inner support front
83. Front pillar extension outer
84. Front pillar lower reinforcement
85. Front pillar inner lower
86. Front pillar inner center
87. Front upper inner pillar
88. Roof side rail inner
89. Rear wheel house panel inner
90. Rear wheel house panel front lower outer
91. Quarter panel upper inner
92. Rear end panel inner
93. Quarter panel extension lower inner
94. Quarter panel inner
95. Quarter panel extension inner
96. Quarter panel extension upper outer
97. Liftgate pillar reinforcement
98. Rear combination light housing panel
99. Quarter panel extension lower outer
100. Rear pillar reinforcement lower
101. Rear end corner panel
102. Gate pillar reinforcement
103. Roof side rail reinforcement rear
104. Rear pillar reinforcement lower
105. Center pillar reinforcement
106. Rear door hinge reinforcement
107. Rear door hinge reinforcement support
108. Roof side rail reinforcement
109. Center pillar inner lower
110. Center pillar inner upper
BODY MAIN CROSS-SECTIONAL VIEWS

A. Roof panel
   - Roof rail front upper
   - Roof rail front lower

B. Roof side rail reinforcement front
   - Side outer panel
   - Roof side rail inner
   - Roof side rail support
   - Center pillar reinforcement

C. Rear door hinge reinforcement support
   - Center pillar inner upper
   - Side outer panel
   - Rear door hinge reinforcement

D. Roof side rail reinforcement rear
   - Quarter inner panel upper
   - Side outer panel

E. Front end crossmember bulkhead
   - Front end crossmember upper
   - Front end crossmember lower

F. Front door hinge reinforcement lower
   - Front pillar inner lower
   - Side outer panel

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BODY CONSTRUCTION
BODY MAIN CROSS-SECTIONAL VIEWS

G  Roof side rail reinforcement front
    Side outer panel
    Front upper inner pillar

H  Roof panel
    Roof rail rear outer
    Roof rail rear inner

I  Side sill reinforcement outer front
    Front pillar inner lower
    Side outer panel
    Side sill inner support front

J  Side sill reinforcement outer rear
    Rear floor side sill inner
    Side outer panel

K  Rear pillar reinforcement lower
    Rear wheel house panel inner
    Quarter inner panel

L  Liftgate striker reinforcement
    Rear end inner crossmember
    Rear end crossmember

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FENDER SHIELD
A positioning hole, lug, and notch have been added on the front end upper bar side, front upper frame inner, upper frame extension inner, front side member brace upper, front sidemember reinforcement rear and dash panel to improve assembling workability during panel replacement.
SIDE STRUCTURE
A panel positioning notch has been added on the
door opening to improve assembling workability
when replacing the panel.
SIDE OUTER PANEL
The extra parts are supplied in 4 different cut forms as a result of employing the integrated side-frame side outer panel.
BODY CONSTRUCTION CHARACTERISTICS

FRONT BODY

HEADLIGHT SUPPORT

- The crush box structure, which has an octagonal cross-section at the front end of the front side-member, has been adopted. This structure can effectively absorb energy upon frontal impact and reduces the vehicle repair cost caused by a light collision.

- The bolt-on headlight support panel upper is used to improve maintainability.

- The 590-MPa class high tensile strength steel panels have been adopted for the front bumper reinforcement to improve the body rigidity.

The crush box structure has been changed to straight type with an octagon cross-section so that the structure can effectively absorb energy from the impact at the time of collision.

NOTE: *: Indicates 590MPa-high-tensile steel panels.

1. Front bumper reinforcement
2. Headlight support panel upper
3. Front end crossmember gusset
4. Front end crossmember upper
5. Nut plate <RALLIART>
6. Radiator bracket lower A
7. Front end crossmember bulkhead
8. Radiator bracket lower B
9. Shipping hook front
10. Shipping reinforcement front
11. Front end crossmember lower
FENDER SHIELD

- The front frame structure is supported in three directions by the dash crossmember center, dash crossmember lower and front sidemember rear in order to improve the frontal collision characteristics, and increase the vehicle body rigidity.

- The padding structure of the front fender bracket has been adopted to efficiently absorb energy upon impact and improve the pedestrian protection capability.

(Right side)

(Left side)

1. Upper side bar front
2. Front end upper bar side
3. Front fender bracket
4. Upper frame bulkhead front
5. Fender shield frame upper outer
6. Upper frame bulkhead center
7. Upper frame bulkhead rear
8. Front fender bracket
9. Front upper frame inner
10. Harness bracket
11. Spring house corner gusset
12. Spring house bracket reinforcement
13. Spring house bracket front
14. Spring house panel rear
15. Horn bracket  
16. Spring house harness bracket  
17. Suction hose bracket  
18. Spring house panel  
19. Power steering reservoir tank bracket  
20. Engine mounting bracket upper  
21. Front fender shield  
22. Engine mounting gusset  
23. Condense tank reinforcement  
24. Fender gusset  
25. Front fender bracket  
26. Front sidemember  
27. Clutch tube bracket <M/T>  
28. Engine control module bracket  
29. Relay box bracket  
30. transaxle mounting gusset
FRONT SIDEMEMBER REINFORCEMENT
The 590-MPa class high tensile strength steel panels have been adopted for the front sidemember extension, front sidemember rear bulkhead and front sidemember rear to improve the body rigidity.

(Right side)

NOTE: *: Indicates 590MPa-high-tensile steel panels.
NOTE: *: Indicates 590MPa-high-tensile steel panels. 18 ± 2 ft-lb

1. Dash crossmember extension lower
2. Front body frame to side sill brace
3. Tie down reinforcement front
4. Front sidemember rear
5. Front sidemember rear bulkhead
6. Front sidemember reinforcement rear lower
7. Front sidemember outer
8. Front brake hose bracket
9. Front sidemember extension
10. Front sidemember plate
11. Battery tray stay front
12. Battery tray stay rear
13. Front suspension crossmember bracket front
14. Front sidemember inner
15. Front sidemember brace upper
16. Transaxle mounting bracket
17. Connecter bracket
18. Headlight support panel
19. Headlight bracket lower
20. Front suspension crossmember bulkhead
21. Transaxle mounting bulkhead
FRONT DECK

- The impact absorbing opening on the cowl top outer reinforcement upper has been added to efficiently absorb energy upon impact and improve the pedestrian protection capability.

- Rigidity was heightened and driving stability was improved by bonding the fender shield frame upper outer and front pillar by the upper frame to front pillar brace.

1. Cowl top panel lower
2. Wiper B bracket
3. Cowl top stay bracket rear
4. Cowl top outer reinforcement upper
5. Cowl top panel inner
6. Cowl top panel outer
7. Deck crossmember stay bracket
8. Brake pedal support bracket
9. Clutch pedal support bracket <M/T>
10. Upper frame extension inner
11. Brake pedal support reinforcement
12. Front fender bracket
13. Cowl top outer reinforcement lower
14. Upper frame to front pillar brace
DASH PANEL

- The front frame structure is supported in three directions by the dash crossmember center, dash crossmember lower and front sidemember rear in order to improve the frontal collision characteristics, and increase the vehicle body rigidity.

- The 590-MPa class high tensile strength steel panels have been adopted for the dash crossmember center, dash crossmember extension, dash panel reinforcement and dash crossmember side to improve the body rigidity.

*: Indicates 590MPa-high-tensile steel panels.

1. Brake tube bracket
2. Harness bracket
3. Dash crossmember center
4. Dash crossmember extension
5. Canister bracket
6. Dash heat protector bracket
7. Dash panel
8. Backbone reinforcement front
9. Dash panel lower
10. Accelerator pedal bracket
11. Steering shaft bracket
12. Dash panel reinforcement
13. Clutch pedal reinforcement lower <M/T>
14. Dash crossmember side
15. Dash crossmember lower bulkhead
16. Dash crossmember lower
BODY CONSTRUCTION
BODY CONSTRUCTION CHARACTERISTICS

SIDE BODY

SIDE STRUCTURE

- The 590-MPa class high tensile strength steel panels or 980-MPa class ultra high tensile strength steel panels have been adopted for the front pillar, center pillar, side sill, and roof side rail to improve the body rigidity.

- The roof rail extension has been adopted to connect the roof side rail inner to the roof rail and the roof bow. The quarter inner gusset upper has also been adopted to connect the quarter inner panel upper to the roof rail rear. This improves rigidity of the body, handling stability, and riding comfort.

NOTE:
*: Indicates 590MPa-high-tensile steel panels.
**: Indicates 980MPa-ultra-high-tensile steel panels.

1. Front pillar inner lower
2. Front pillar inner center
3. Hood opener bracket (Left side)
4. Cowl side trim bracket (Right side)
5. Deck crossmember bracket (Right side)
6. Front upper inner pillar
7. Center pillar inner lower
8. Center pillar inner upper
9. Center pillar seat belt reinforcement lower
10. Center pillar seat belt reinforcement upper
11. Roof rail front extension

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12. Roof rail center extension <Vehicles without sunroof>
13. Bracket C <Vehicles with sunroof>
14. Roof side rail inner
15. Harness bracket (Right side)
16. Rear seat striker reinforcement
17. Rear wheel house reinforcement
18. Rear wheel house bulkhead lower
19. Rear wheel house plate
20. Harness bracket (Left side)
21. Rear wheel house panel inner
22. Filler pipe mounting bracket (Left side)
23. Rear wheel house panel front lower outer
24. Quarter inner gusset upper
25. Quarter inner panel upper
26. Nut plate
27. Rear end panel inner
28. Quarter panel extension lower inner
29. Quarter panel inner
30. Quarter panel extension inner
31. Quarter panel extension upper outer
32. Rear combination light housing panel
33. Liftgate pillar reinforcement
34. Quarter panel extension lower outer
35. Fuel filler neck bracket (Left side)
36. Side outer panel
37. Front fender bracket lower
38. Front fender bracket
39. Cowl side trim bracket
40. Front upper outer frame rear
41. Upper frame outer reinforcement <RALLIART>
42. Side sill reinforcement outer rear
43. Side sill reinforcement outer front
44. Side sill inner support front
45. Front pillar outer extension lower
46. Front pillar outer extension upper
47. Front pillar reinforcement lower
48. Front door hinge reinforcement lower
49. Front pillar reinforcement center bulkhead
50. Front door hinge reinforcement upper
51. Deck support pipe (Left side)
52. Front pillar support
53. Roof side rail support
54. Roof side rail reinforcement front
55. Rear door hinge reinforcement support
56. Rear door hinge reinforcement
57. Center pillar reinforcement
58. Roof side rail reinforcement rear
59. Gate pillar reinforcement upper
60. Rear combination light support bulkhead
61. Rear pillar reinforcement lower
62. Rear end corner panel
63. Gate pillar brace
64. Rear pillar reinforcement
65. Flap gate striker reinforcement
66. Nut plate
67. Rear pillar reinforcement lower
SIDE STRUCTURE REINFORCEMENT

The ring structure of the side structure reinforcement has been adopted to improve the collision characteristics and the rigidity of the whole vehicle.
REAR BODY

REAR END CROSSMEMBER

1. Rear bumper bracket
2. Bracket
3. Rear end inner crossmember
4. Liftgate striker reinforcement
5. Nut plate
6. Rear end outer crossmember
7. Rear bumper center reinforcement

5.0 ± 2.0 N·m
44 ± 17 in-lb
ROOF

- The closed section structure has been adopted for the roof rail front and the roof bow center to heighten body rigidity, improve handling stability and riding comfort, and to reduce vibration and noise.

<Vehicles without sunroof>

- The 590-MPa class high tensile strength steel panels have been adopted for the roof bow center lower to improve the body rigidity.

<Vehicles with sunroof>

NOTE: *: Indicates 590MPa-high-tensile steel panels.

1. Sunvisor bracket
2. Map light bracket
3. Roof rail front lower
4. Roof rail front upper
5. Roof panel
6. Roof rack bracket
7. Roof rail rear outer
8. Liftgate hinge reinforcement
9. Roof rail rear inner
10. Roof bow center upper
11. Roof bow center lower
12. Dome light bracket
13. Roof panel reinforcement
14. Set rear bracket
15. Bracket A
16. Bracket B
17. Set front bracket

5.5 ± 1.5 N·m
49 ± 13 in-lb
UNDER BODY

FRONT FLOOR

The 590-MPa class high tensile strength steel panels have been adopted for the front floor crossmember front and front floor sidemember, and the 980-MPa class ultra high tensile strength steel panels for the front floor side sill inner, to improve the body rigidity.

NOTE:
*: Indicates 590MPa-high-tensile steel panels.
**: Indicates 980MPa-ultra-high-tensile steel panels.

1. Front floor
2. Front floor crossmember front reinforcement
3. Front floor crossmember front
4. Parking brake lever reinforcement
5. Backbone reinforcement
6. Parking brake cable reinforcement
7. Seat center bracket rear
8. Front floor crossmember rear
9. Seat side bracket rear
10. Seat belt reinforcement
11. Front floor side sill inner center reinforcement
12. Front floor side sill inner
13. Front floor sidemember
14. Front floor crossmember rear center <Except RALLIART>
15. Front floor crossmember front
16. Front floor crossmember rear center <RALLIART>
17. Front floor reinforcement lower (Right side)
REAR FLOOR
The 590-MPa class high tensile strength steel panels have been adopted for the rear floor extension, rear floor crossmember front and rear seat crossmember to improve the body rigidity.

NOTE: *: Indicates 590MPa-high-tensile steel panels.

1. Rear floor extension
2. Rear seat under floor
3. Rear floor pan rear <Except RALLIART>
4. Rear floor crossmember upper
5. Jack bracket
6. Spare tire bracket
7. Rear floor pan rear <RALLIART>
8. Rear floor rear end crossmember
9. Rear seat bracket
10. Rear floor crossmember front
11. Fuel tank rear bracket
12. Rear seat belt reinforcement
13. Rear seat reinforcement upper
14. Rear seat reinforcement lower
15. Rear seat crossmember bulkhead inner
16. Rear seat crossmember
17. Sidemember front floor extension
18. Rear floor sidemember
19. Extension rear floor reinforcement side
REAR FLOOR SIDEMEMBER REINFORCEMENT

The 590-MPa class high tensile strength steel panels have been adopted for the rear floor sidemember reinforcement, rear floor sidemember extension, rear floor side sill inner and rear floor sidemember bulkhead to improve the body rigidity.

1. Rear floor side panel
2. Rear floor crossmember extension
3. Rear floor sidemember reinforcement
4. Rear floor crossmember extension rear <Except RALLIART>
5. Rear floor crossmember extension rear upper <Except RALLIART>
6. Muffler hanger rear
7. Rear floor crossmember extension rear <RALLIART>
8. Rear floor crossmember extension rear upper <RALLIART>
9. Shipping pipe <RALLIART>
10. Shipping bracket reinforcement <RALLIART>
11. Rear floor sidemember extension bulkhead <Except RALLIART>
12. Canister bracket (Left side)
13. Rear floor sidemember extension
14. Rear bumper support
15. Rear shipping hook reinforcement (Left side)  
   <Except RALLIART>
16. Rear shipping hook (Left side) <Except RALLIART>
17. Rear spring house panel
18. Rear spring house reinforcement
19. Rear spring house bracket
20. Rear floor crossmember extension reinforcement
21. Rear suspension bracket front
22. Rear floor side sill inner
23. Rear brake hose bracket
24. Rear parking brake cable rear bracket
25. Rear floor sidemember lower
26. Rear floor sidemember extension front
27. Rear tie down plate
28. Rear floor sidemember bulkhead
29. Rear floor sidemember reinforcement front A
30. Trailing arm bracket
31. Rear floor sidemember reinforcement front B
32. Rear floor sidemember bulkhead rear
33. Rear suspension bracket rear
34. Pipe nut
35. Hydraulic unit bracket front (Right side)  
   <RALLIART>
36. Hydraulic unit bracket rear (Right side) <RALLIART>
DOOR

An uneven thickness steel sheet* has been used for the front and rear door panel inners to make the forward part of the vehicle thicker for reduction in vehicle weight and higher rigidity.

(Front door)

NOTE: *: A steel sheet of varying thickness that is welded into one steel sheet.

(Rear door)

1. Front door panel outer
2. Front door beltline outer reinforcement
3. Front door outer stiffener
4. Front door side door beam
5. Front door window front sash
6. Front door window upper sash
7. Front door window rear sash
8. Front door latch reinforcement
9. Front door beltline inner reinforcement
10. Front door mirror reinforcement
11. Front door inside handle bracket
12. Nut plate
13. Front door checker reinforcement
14. Front door panel inner

15. Rear door panel outer
16. Rear door beltline outer reinforcement
17. Rear door side door beam
18. Rear door window front sash
19. Rear door window upper sash
20. Rear door beltline inner reinforcement
21. Rear door beltline bracket
22. Rear door sash reinforcement
23. Rear door stat corner bracket
24. Rear door latch reinforcement
25. Rear door window sash lower bracket
26. Rear door inside handle bracket
27. Rear door panel inner
A silencer (MD-12 and melting sheet) has been affixed on the upper surface of the floor for vibration damping.

NOTE: MD-12 is a high performance sheet composed of asphalt applied with mica and thermosetting resin for improving anti-vibration performance.

<RALLIART and optional item (Except RALLIART)>

<Except RALLIART>
FOAMING MATERIAL USAGE LOCATIONS

CAUTION
The sound dampening foam material may burn when heated. Always observe the following instructions:

- Never use a gas burner to burn the areas where sound dampening foam material is used.
- When cutting the parts which are provided with sound dampening foam material, ensure to use tools (air saw, etc.) that do not generate fire.
- If there are residual sound dampening foam material remaining on the cut section (body side), remove the sound dampening foam material from periphery of the welding area before welding work.

The sound dampening foam material have been adopted to the upper and lower sections of the front pillar, center pillar lower section, gate pillar section, the wheel house arch, the rear combination light housing and rear end panel inner inside to shield from external noise.
Sound dampening foam material

Sound dampening foam material <RALLIART>
STIFFENER APPLICATION LOCATIONS

Stiffeners have been adhered on the inner side of the side outer panel for higher surface rigidity.

NOTE:
• The main contents of a stiffener are epoxy resin. It comes in a sheet form and contains a mixture of glass fiber and filler, and cures (stiffens) when heated.

• No spare part of the stiffener for repair is available in the field. If the stiffener is damaged, replace it together with the panel.