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FOREWORD

This Body Repair Information brochure contains information, instructions and procedures for repairing the body structure for the 1995 Maxima model. In order to achieve reliable repair work and ensure customer satisfaction, the technician should study this brochure and familiarize himself with appropriate sections before starting repair and rebuilding work.

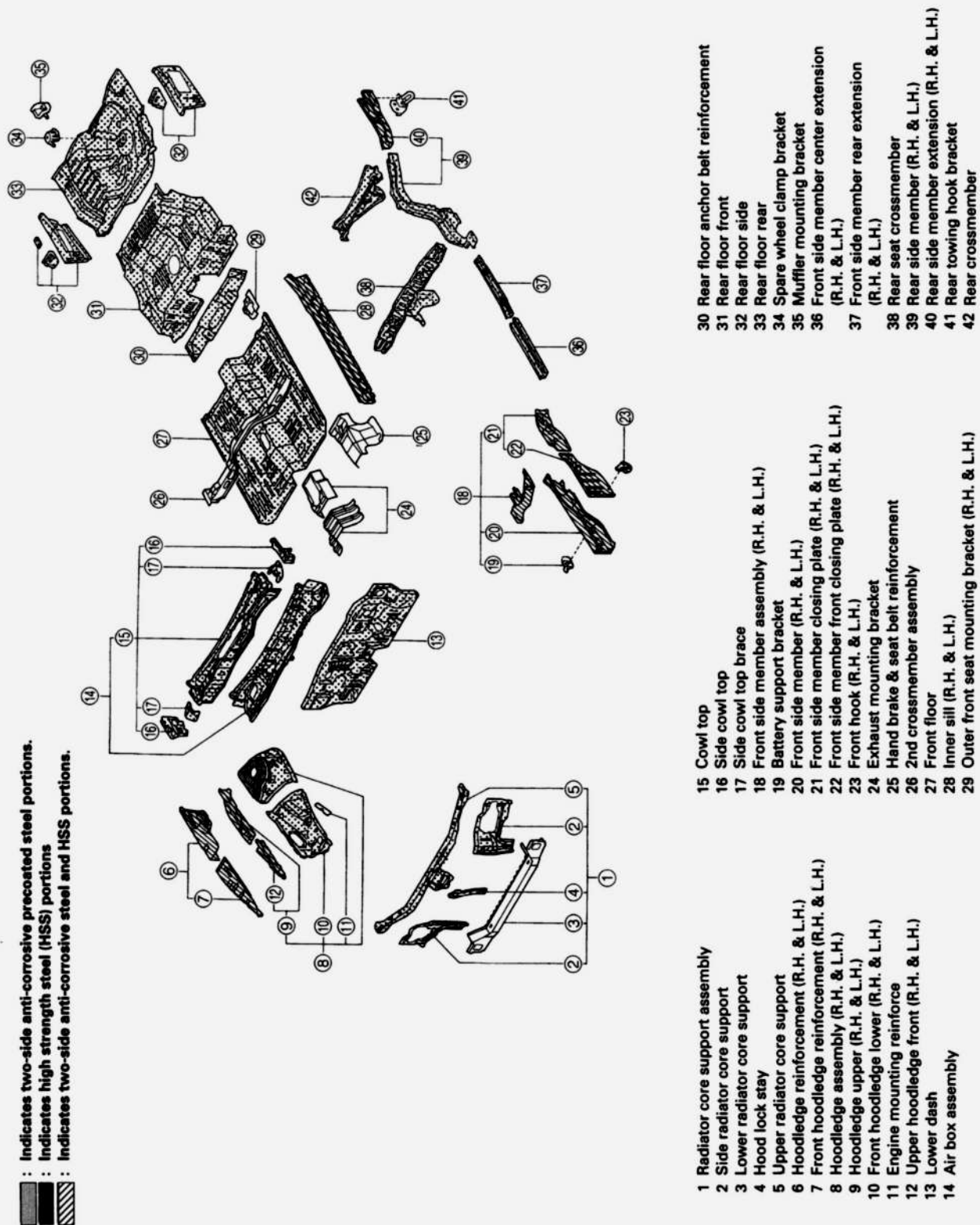
This Body Repair brochure is prepared for use by technicians who are assumed to have a high level of skill and experience in repairing collision-damaged vehicles and also use modern servicing tools and equipment. It is not recommended that persons unfamiliar with body repair techniques attempt to repair collision-damaged vehicles by using this brochure.

Technicians are also required to read the 1995 Maxima Service Manual and Body Repair Manual (Fundamentals) in order to ensure that the original functions and quality of the vehicle can be maintained. The Body Repair Manual (Fundamentals) contains additional information, including cautions and warnings, that are not included in this brochure. Technicians should refer to both manuals to ensure proper repairs.

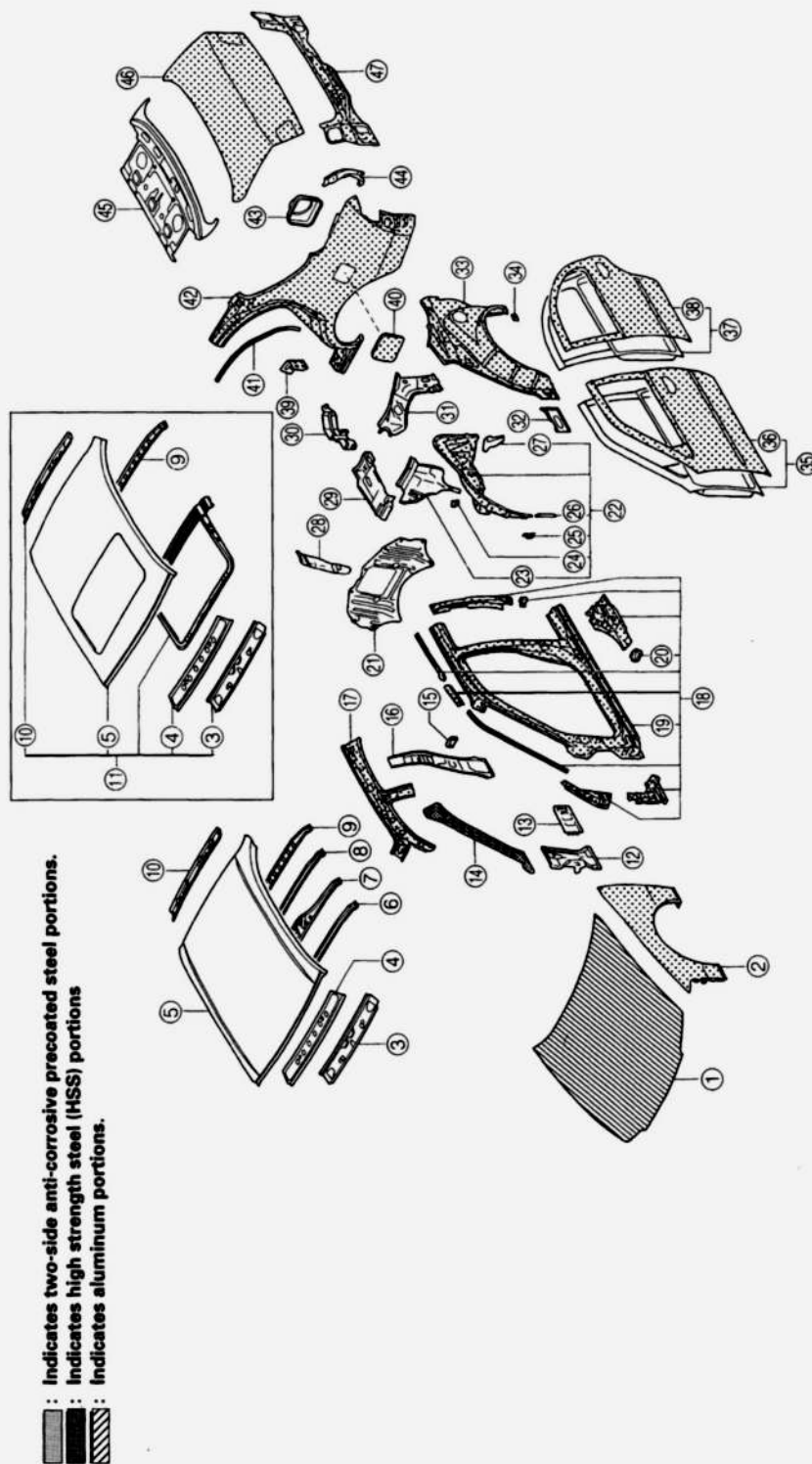
Please note that these manuals are prepared for worldwide usage, and as such, certain procedures might not apply in some regions or countries. In the USA, it is recommended that a M.I.G. welder be used by a trained technician to weld structural body parts.

All information in this brochure is based on the latest product information at the time of publication. The right is reserved to make changes in specifications and methods at any time without notice.

UNDERBODY COMPONENT PARTS



BODY COMPONENT PARTS



- | | | |
|---|--|---|
| 1 Hood | 17 Side roof rail inner (R.H. & L.H.) | 33 Outer rear wheelhouse (R.H. & L.H.) |
| 2 Front fender (R.H. & L.H.) | 18 Body assembly side (R.H. & L.H.) | 34 Anchor plate (R.H. & L.H.) |
| 3 Front roof rail | 19 Side body outer (R.H. & L.H.) | 35 Front door assembly (R.H. & L.H.) |
| 4 Front roof rail reinforcement | 20 Outer sill brace (R.H. & L.H.) | 36 Outer front door panel (R.H. & L.H.) |
| 5 Roof | 21 Rear seat back support | 37 Rear door assembly (R.H. & L.H.) |
| 6 No.1 roof bow | 22 Rear wheelhouse inner (R.H. & L.H.) | 38 Outer rear door panel (R.H. & L.H.) |
| 7 No.2 roof bow | 23 Rear seat back support side (R.H. & L.H.) | 39 Striker tapping retainer (R.H. & L.H.) |
| 8 No.3 roof bow | 24 Rear seat back bracket (R.H. & L.H.) | 40 Fuel filler lid |
| 9 No.4 roof bow | 25 Filler tube protector bracket | 41 Rear fender drip (R.H. & L.H.) |
| 10 Rear roof rail | 26 Sill closing plate (R.H. & L.H.) | 42 Rear fender (R.H. & L.H.) |
| 11 Roof assembly | 27 Rear wheelhouse extension inner (R.H. & L.H.) | 43 Filler lid base |
| 12 Inner lower front pillar (R.H. & L.H.) | 28 Rear pillar reinforcement lower | 44 Rear fender corner (R.H. & L.H.) |
| 13 Lower front pillar reinforcement (R.H. & L.H.) | 29 Side parcel shelf (R.H. & L.H.) | 45 Parcel shelf with rear waist |
| 14 Inner upper front pillar (R.H. & L.H.) | 30 Jack mounting bracket | 46 Trunk lid |
| 15 Center pillar hinge support (R.H. & L.H.) | 31 Rear pillar inner (R.H. & L.H.) | 47 Rear panel |
| 16 Inner center pillar (R.H. & L.H.) | 32 Rear wheelhouse extension outer (R.H. & L.H.) | |

DESCRIPTION

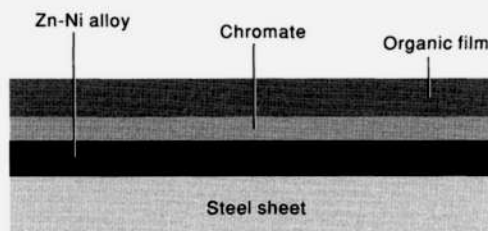
In order to provide improved corrosion prevention, the following anti-corrosive measures have been implemented in our production plants. When repairing or replacing body panels, it is necessary to use these same anti-corrosive measures.

ANTI-CORROSIVE PRECOATED STEEL (DURASTEEL)

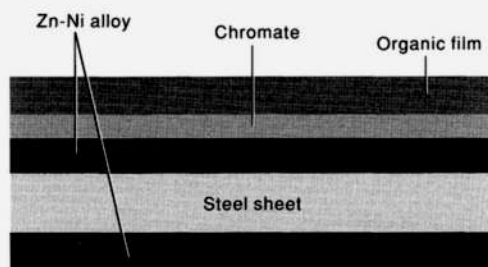
In order to improve repairability and corrosion resistance, a new type of anti-corrosive precoated steel sheets have been adopted taking the place of conventional zinc-coated steel sheets.

This durasteel is electroplated, zinc-nickel alloy under organic film, which provides excellent corrosion resistance.

Durasteel is classified as either one-side precoated steel or two-side precoated steel. The two-side precoated steel provides excellent corrosion resistance.



One-side precoated



OUTSIDE

Two-side precoated

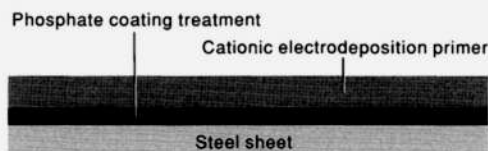
Nissan Genuine Service Parts are fabricated from durasteel sheets. Therefore, it is recommended that GENUINE NISSAN PARTS or equivalent be used for panel replacement to maintain the anti-corrosive performance built into the vehicle at the factory.

PHOSPHATE COATING TREATMENT AND CATIONIC ELECTRODEPOSITION PRIMER

A phosphate coating treatment and a cationic electrodeposition primer, which provide an excellent anti-corrosion effect, are employed on all body components.

Caution:

Confine paint removal in the welding operation to the absolute minimum.

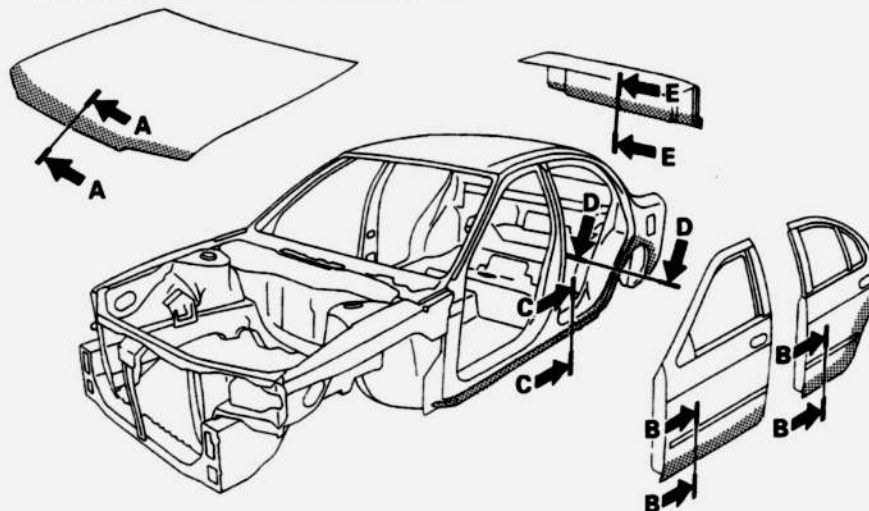


Nissan Genuine Service Parts also are treated in the same manner. Therefore, it is recommended that GENUINE NISSAN PARTS or equivalent be used for panel replacement to maintain anti-corrosive performance built into the vehicle at the factory.

ANTI-CORROSIVE WAX

In order to improve corrosion resistance, anti-corrosive wax is applied inside the body sill and inside other closed sections. Accordingly, when replacing these parts, be sure to apply anti-corrosive wax to the appropriate areas of the new parts. Select an excellent anti-corrosive wax which will penetrate after application and has a long shelf life.

■ : Indicates anti-corrosive wax coated portions

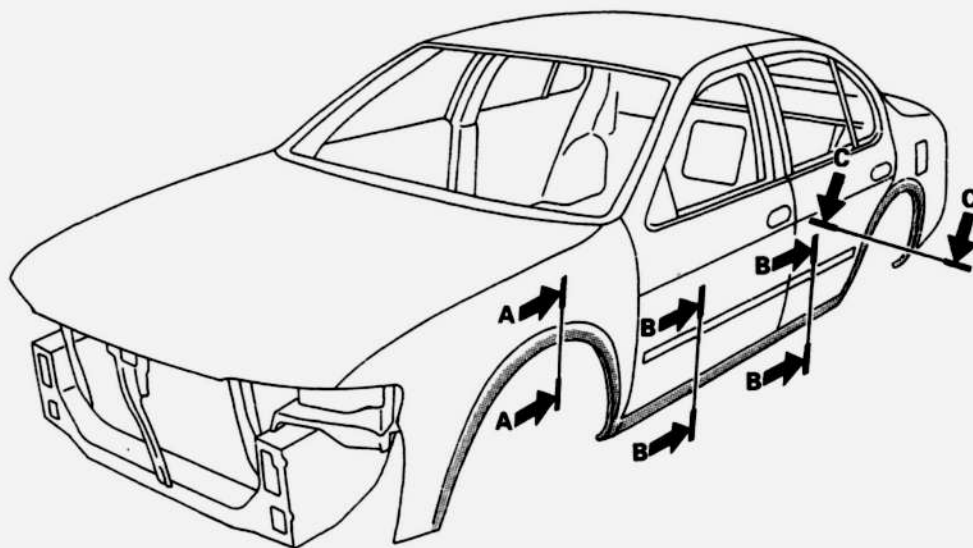


Section A-A	Section B-B	Section C-C
Section D-D	Section E-E	

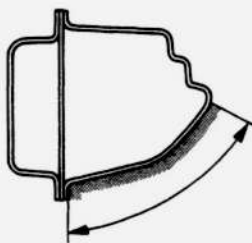
STONE GUARD COAT

In order to prevent damage caused by stones, the lower outer body panels (fender, door, etc.) have an additional layer of Stone Guard Coat over the ED primer coating. Thus, when replacing or repairing these panels, apply undercoat to the same portions as before. Use a coat which is rust preventive, durable, shock-resistant and has a long shelf life.

 : Indicates stone guard coated portions.



Section A-A

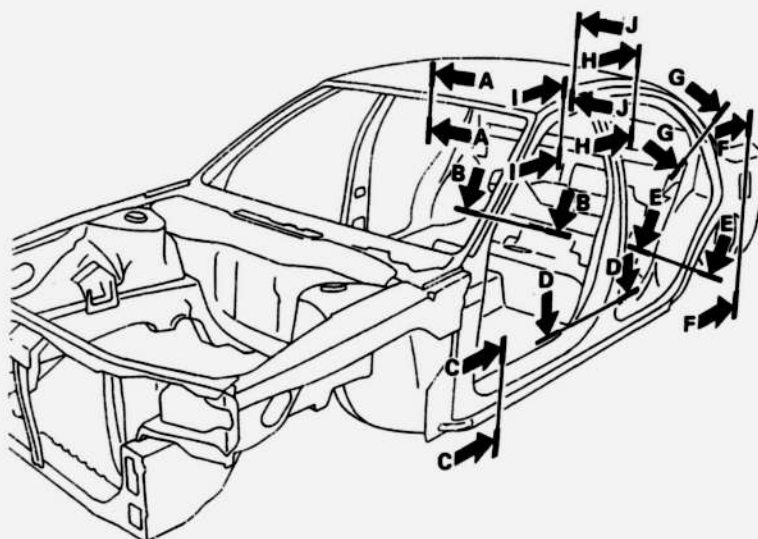


Section B-B



Section C-C

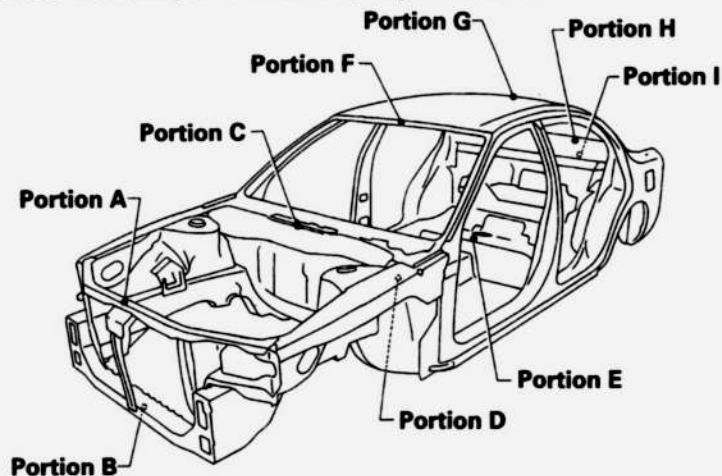
BODY CONSTRUCTION



Section A-A	Section B-B	Section C-C	Section D-D
Section E-E	Section F-F	Section G-G	Section H-H
Section I-I	Section J-J		

BODY CENTER MARKS

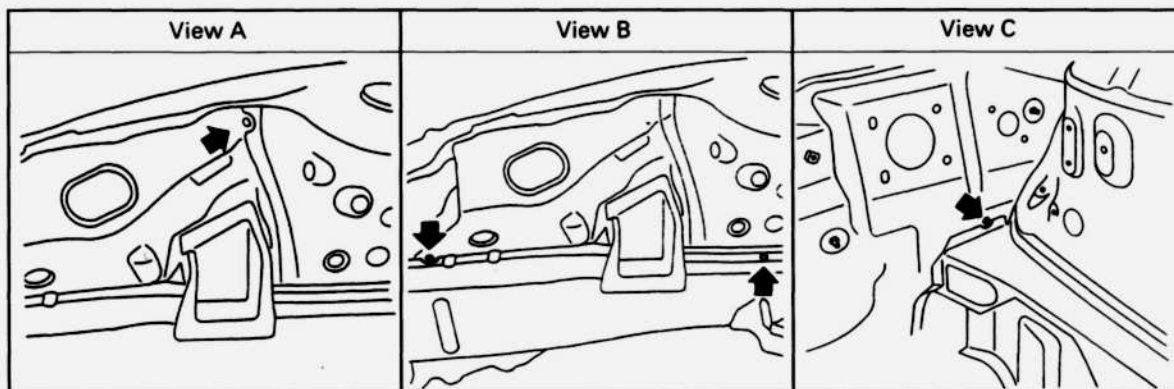
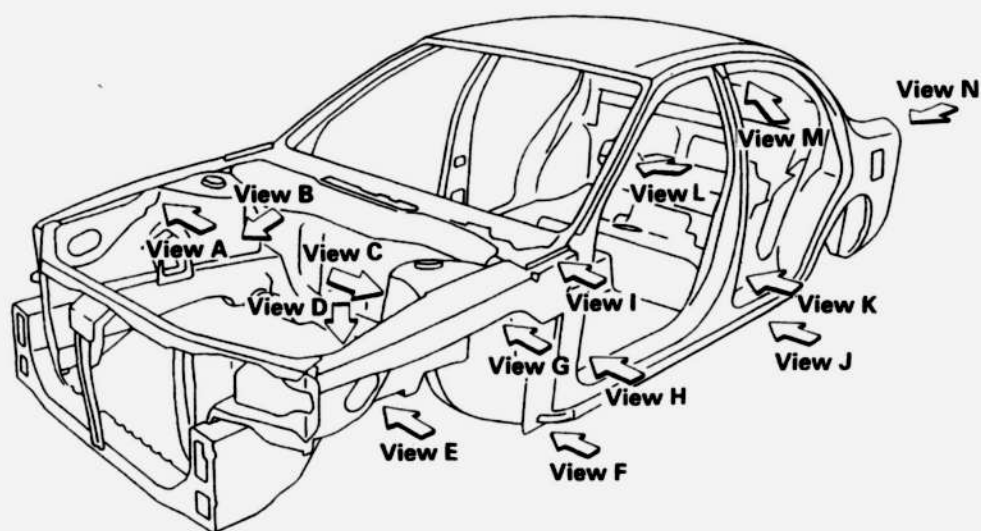
A mark has been placed on each part of the body to indicate the vehicle center. When repairing parts damaged by an accident which might affect the vehicle frame (members, pillars, etc.) more accurate, effective repair will be possible by using these marks together with body alignment data.



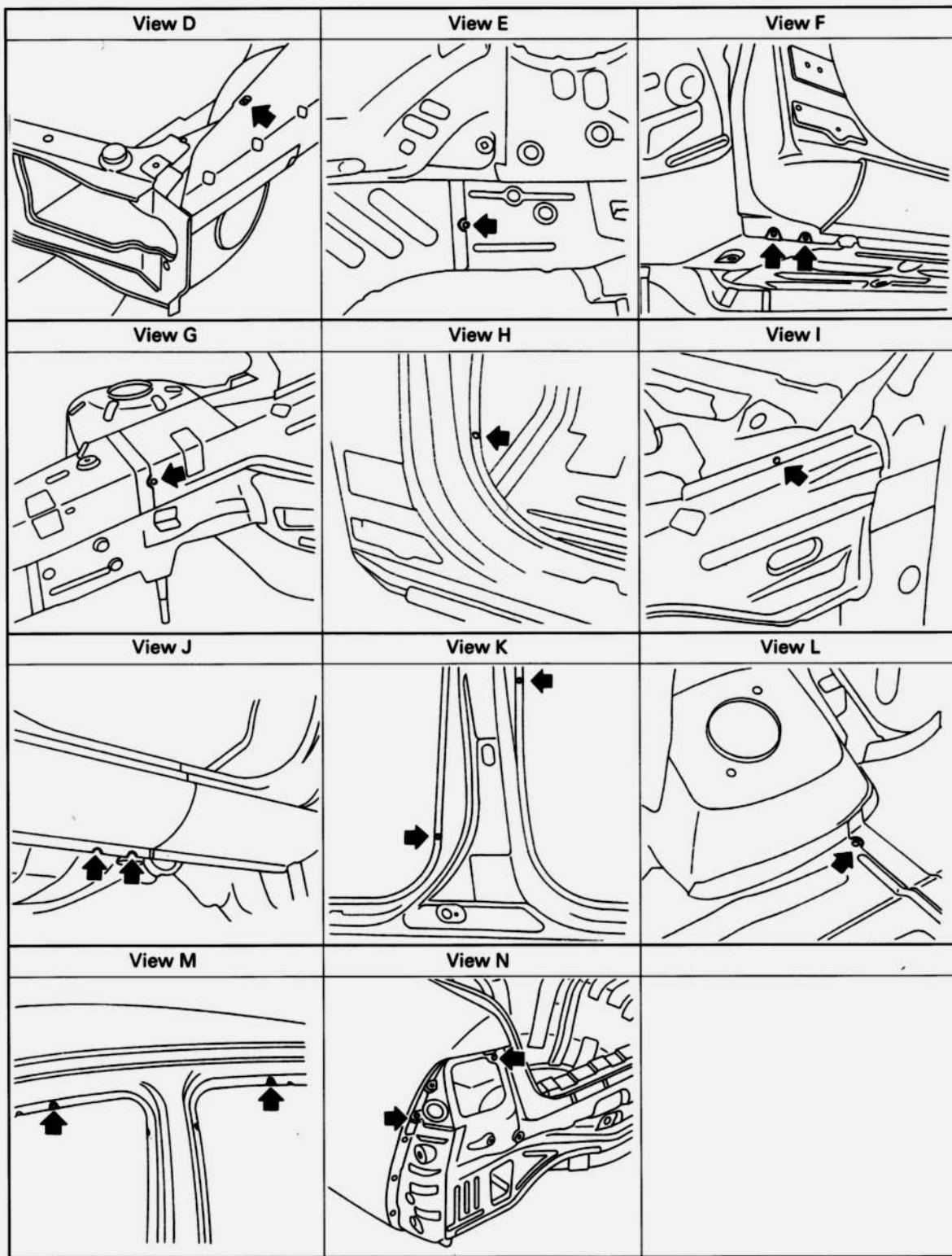
Portion A	Portion B	Portion C
• Upper radiator core support	• Lower radiator core support	• Cowl top
Portion D	Portion E	Portion F
• Parking brake reinforcement	• Rear floor front	• Front roof
Portion G	Portion H	Portion I
• Rear roof	• Rear waist panel	• Rear seat back side support

PANEL PARTS MATCHING MARKS

A mark has been placed on each part of the body to indicate the panel parts matching positions. When repairing parts damaged by an accident which might affect the vehicle frame (members, pillars, etc.) more accurate, effective repair will be possible by using these marks together with body alignment data.

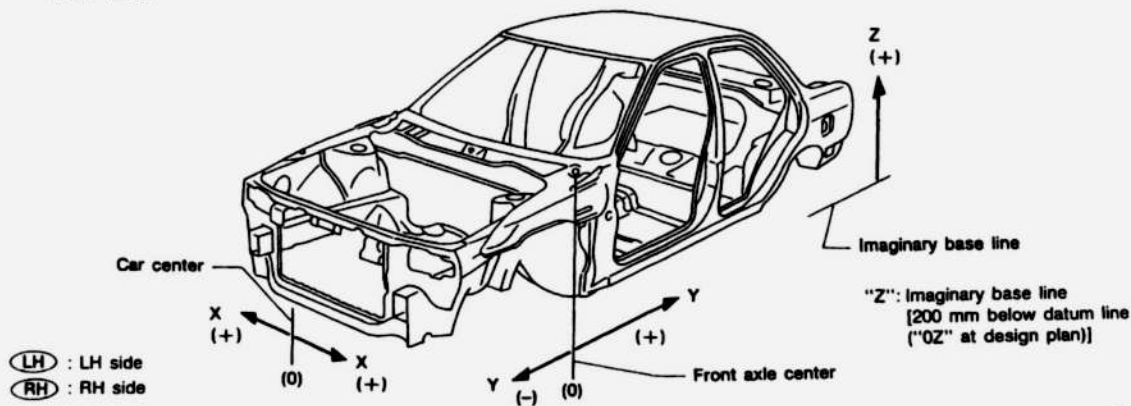


PANEL PARTS MATCHING MARKS



DESCRIPTION

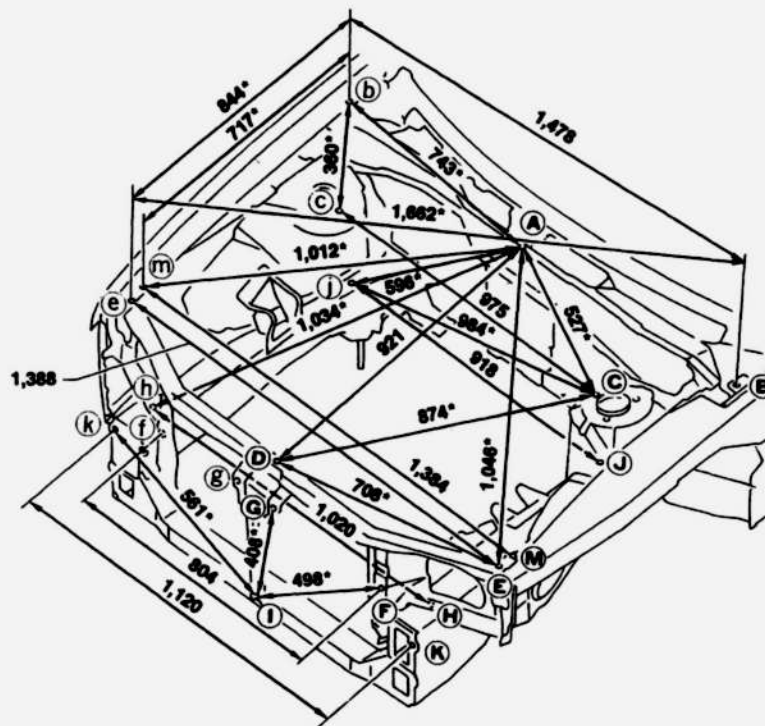
- All dimensions indicated in figures are actual ones.
- When a tram tracking gauge is used, adjust both pointers to equal length and check the pointers and gauge itself to make sure there is no free play.
- When a measuring tape is used, check to be sure there is no elongation twisting or bending.
- Measurements should be taken at the center of the mounting holes.
- An asterisk (*) following the value at the measuring point indicates that the measuring point on the other side is the same value.
- The coordinates of the measurement points are the distances measure from the standard line of "X", "Y" and "Z".



SBF874G

Engine Compartment

MEASUREMENT



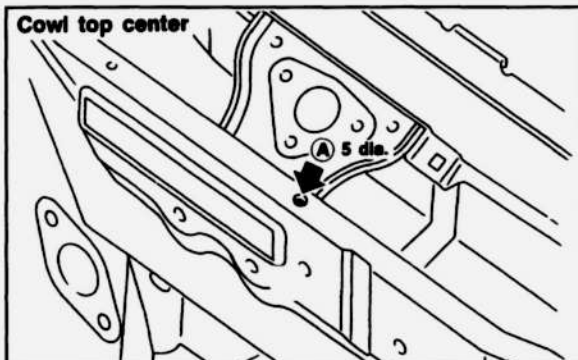
Unit: mm

SBF390H

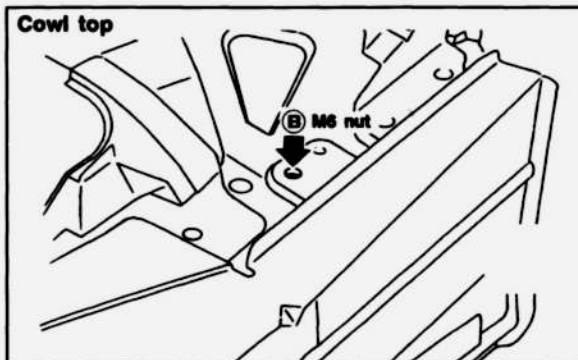
ENGINE COMPARTMENT

MEASUREMENT

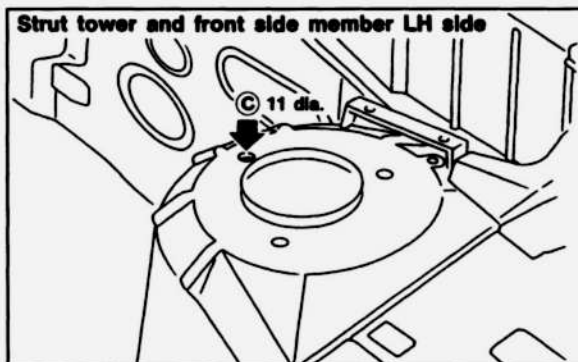
Cowl top center



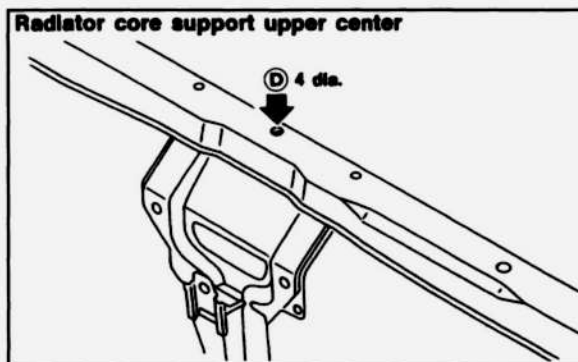
Cowl top



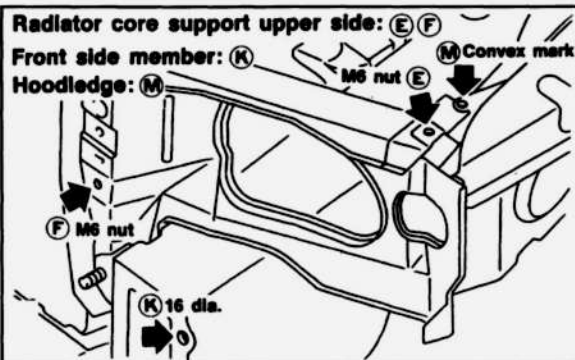
Strut tower and front side member LH side



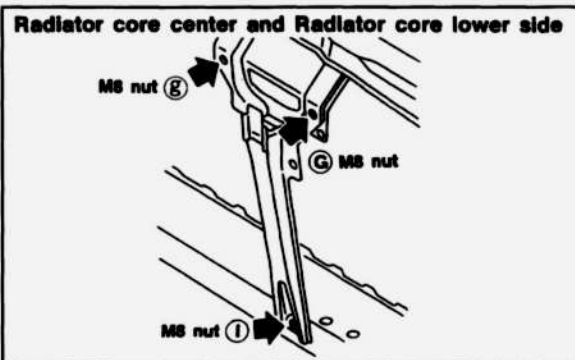
Radiator core support upper center



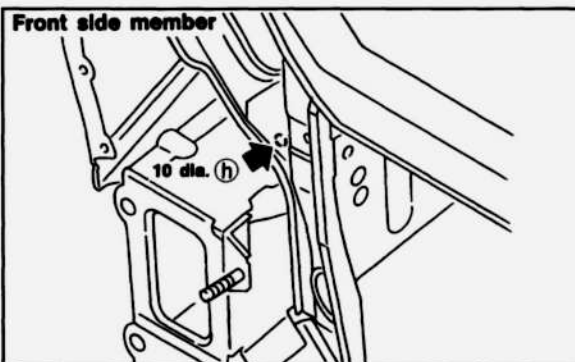
Radiator core support upper side: E F
Front side member: K
Hoodledge: M



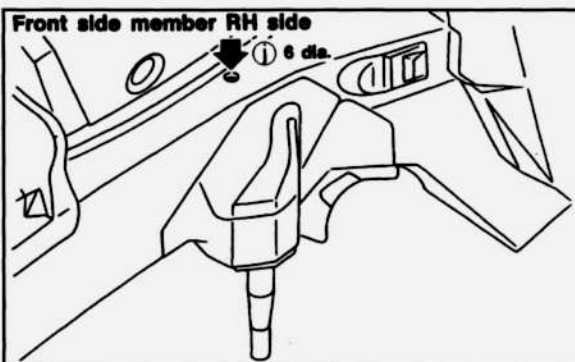
Radiator core center and Radiator core lower side



Front side member

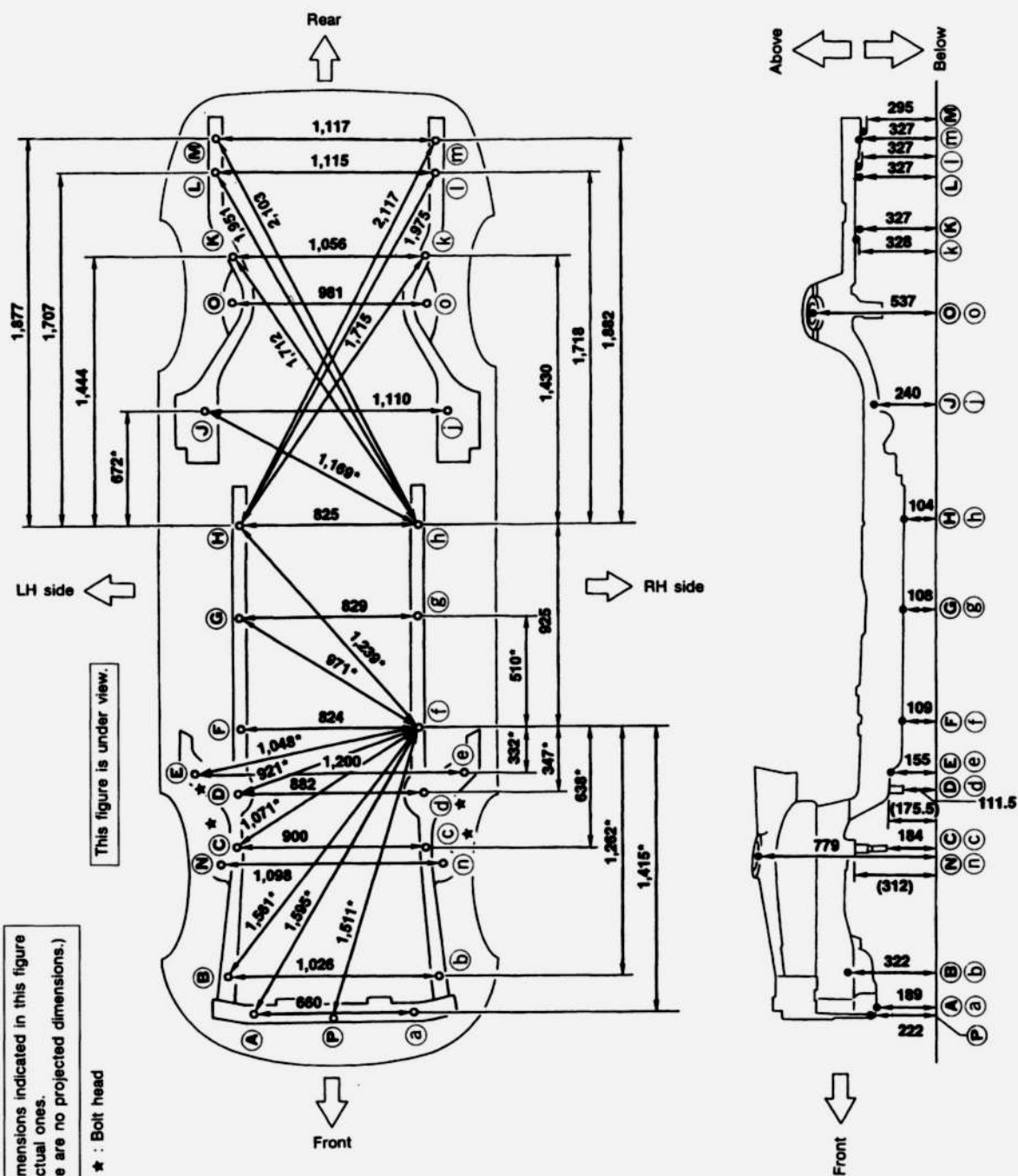


Front side member RH side



UNDERBODY

MEASUREMENT

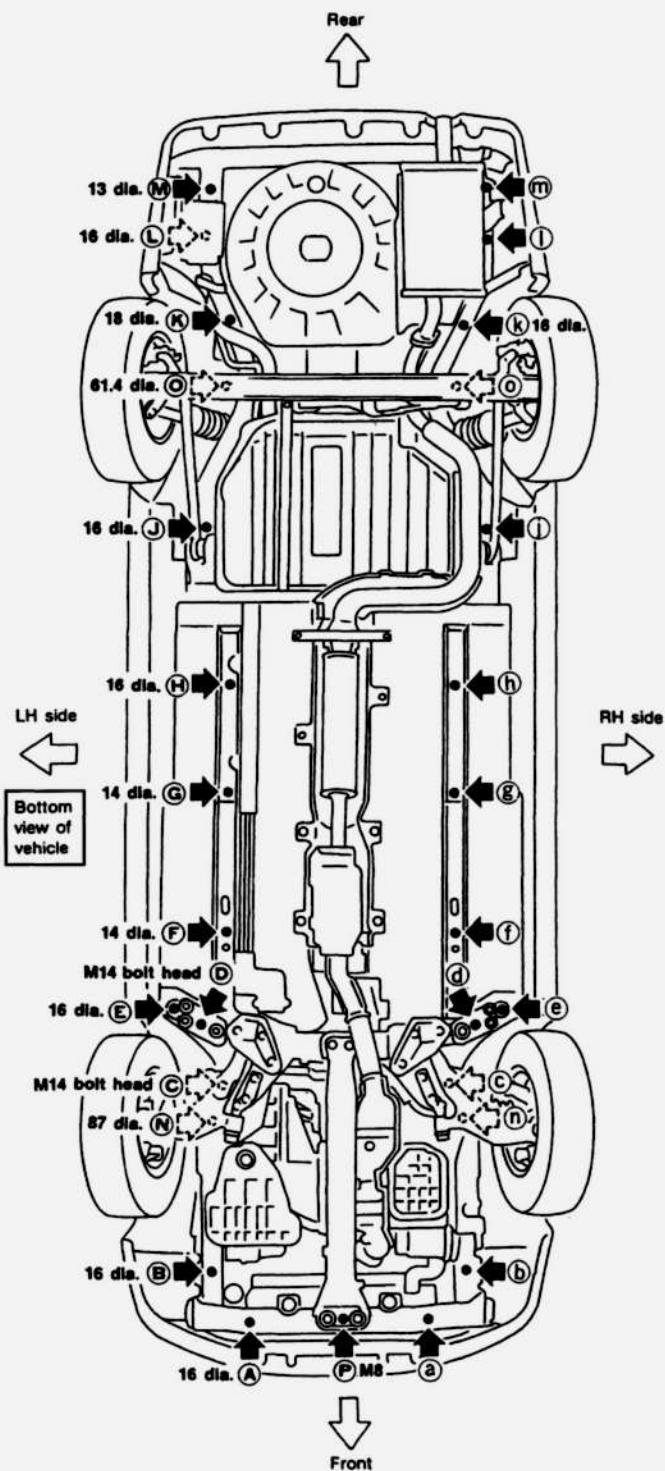


Unit: mm

(): This figure indicates the measurement from the lower surface of the underbody.

UNDERBODY

MEASUREMENT POINTS



Coordinates:

(A), (a)
 X: 330
 Y: -710
 Z: 188.8
(B), (b)
 X: 513
 Y: -540
 Z: 322
(C), (c)
 X: 450
 Y: 68
 Z: 184
(D), (d)
 X: 441
 Y: 354
 Z: 111.5
(E), (e)
 X: 600
 Y: 430
 Z: 154.9
(F), (f)
 X: 412
 Y: 700
 Z: 109
(G), (g)
 X: 414.5
 Y: 1,210
 Z: 108.4
(H), (h)
 X: 412.5
 Y: 1,625
 Z: 104

(J), (j)
 Radius rod
 bracket mounting
 hole
 X: 555
 Y: 2,185
 Z: 239.5
(K), (k)
 X: 512
 Y: 3,000
 Z: 326.6
(L), (l)
 X: 540
 Y: 3,272
 Z: 326.6
(I), (i)
 X: -575
 Y: 3,280
 Z: 326.6
(M), (m)
 X: 546
 Y: 3,454
 Z: 295.4
(N), (n)
 X: -570.5
 Y: 3,450
 Z: 326.6
(P), (p)
 X: 0
 Y: -749
 Z: 222

Front and rear strut tower centers

Coordinates:

(N), (n)
 X: 548.8
 Y: 28.7
 Z: 779.3
(O), (o)
 X: 490.3
 Y: 2,621
 Z: 537.2

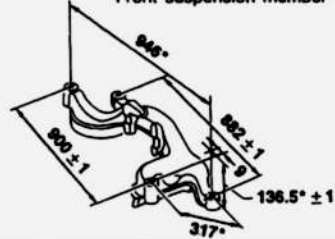


Front: (N), (n) 87 dia.

Rear: (O), (o) 61.4 dia.

Suspension link mounting hole

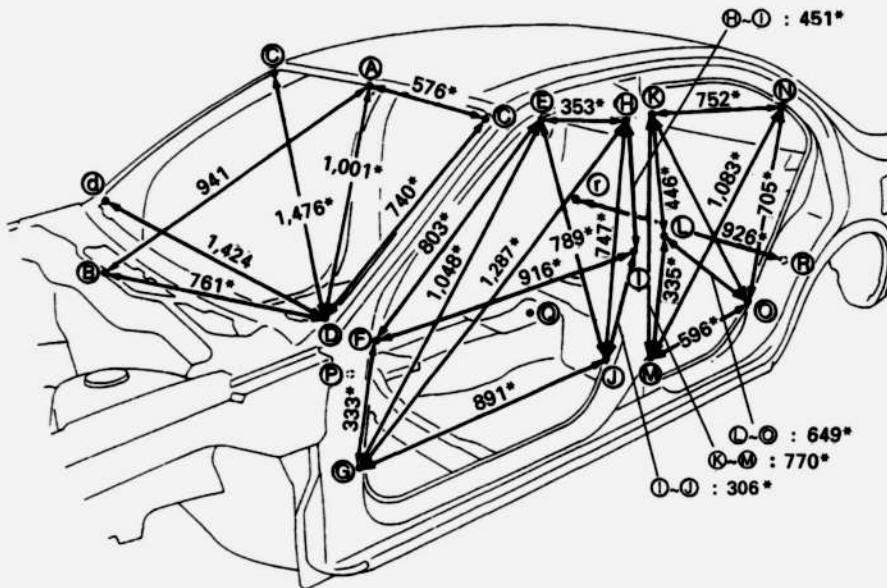
Front suspension member



Unit: mm

PASSENGER COMPARTMENT

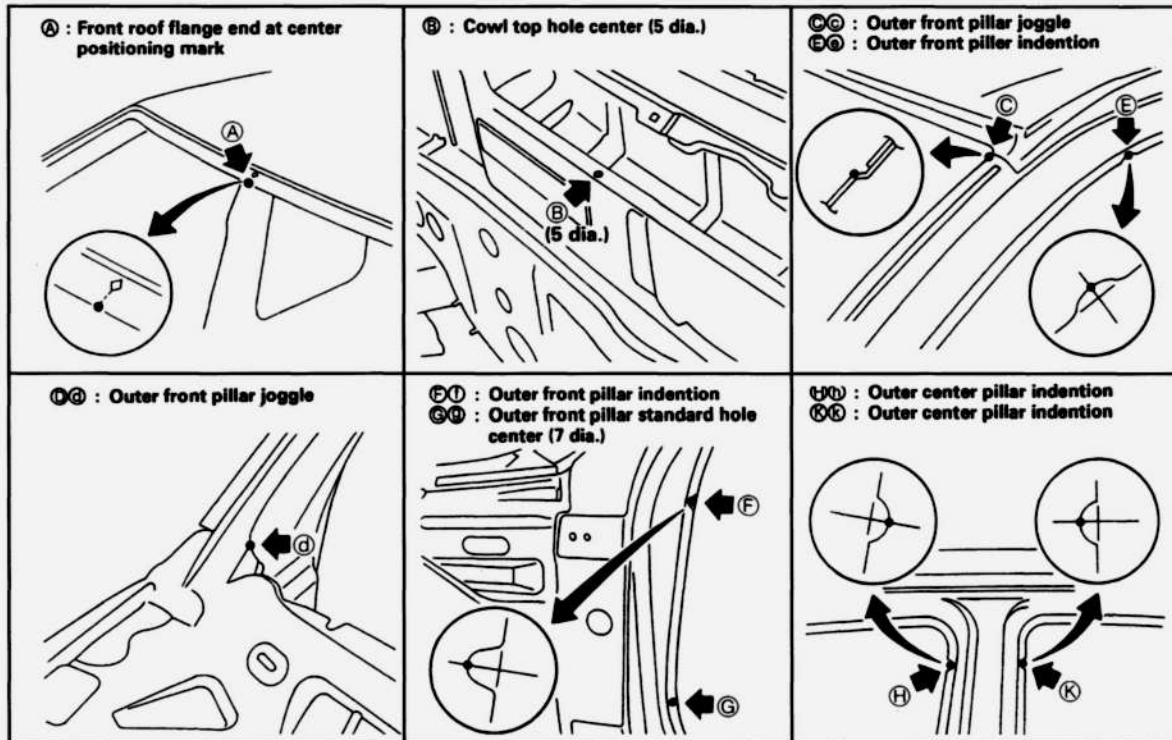
MEASUREMENT



Figures marked with a * show symmetrically identical dimensions on both right and left hand sides of the vehicle.

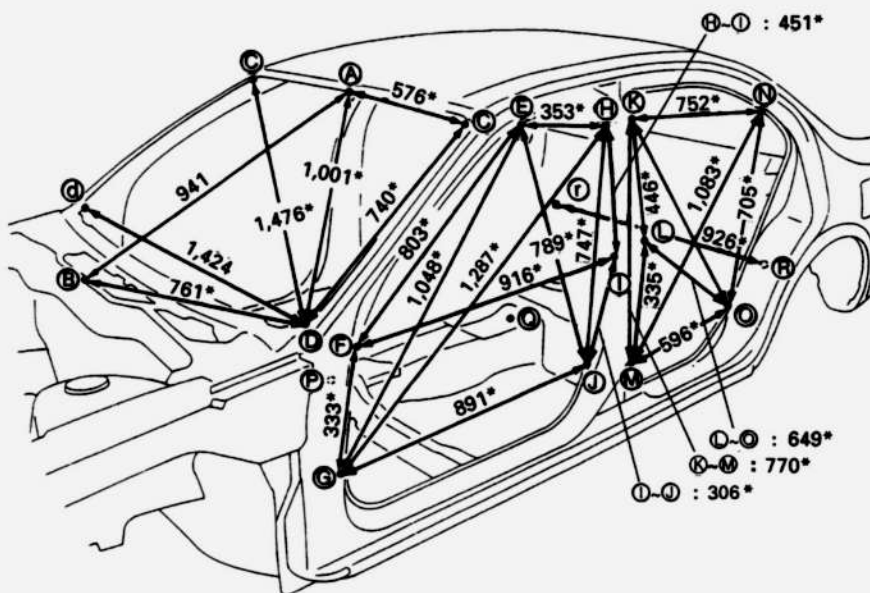
Unit: mm

Point	Dimension
③~③	1,146
⑤~⑤	1,189
⑦~⑦	1,442
⑨~⑨	1,426
⑪~⑪	1,239
⑬~⑬	1,470
⑮~⑮	1,431
⑰~⑰	1,237
⑱~⑱	1,470
⑲~⑲	1,429
⑳~㉑	1,296
㉒~㉒	1,419
㉓~㉓	1,082
㉔~㉔	913
㉕~㉕	1,201
㉖~㉖	964
㉗~㉗	1,077*
㉘~㉘	1,214*
㉙~㉙	878*
㉚~㉚	827*



PASSENGER COMPARTMENT

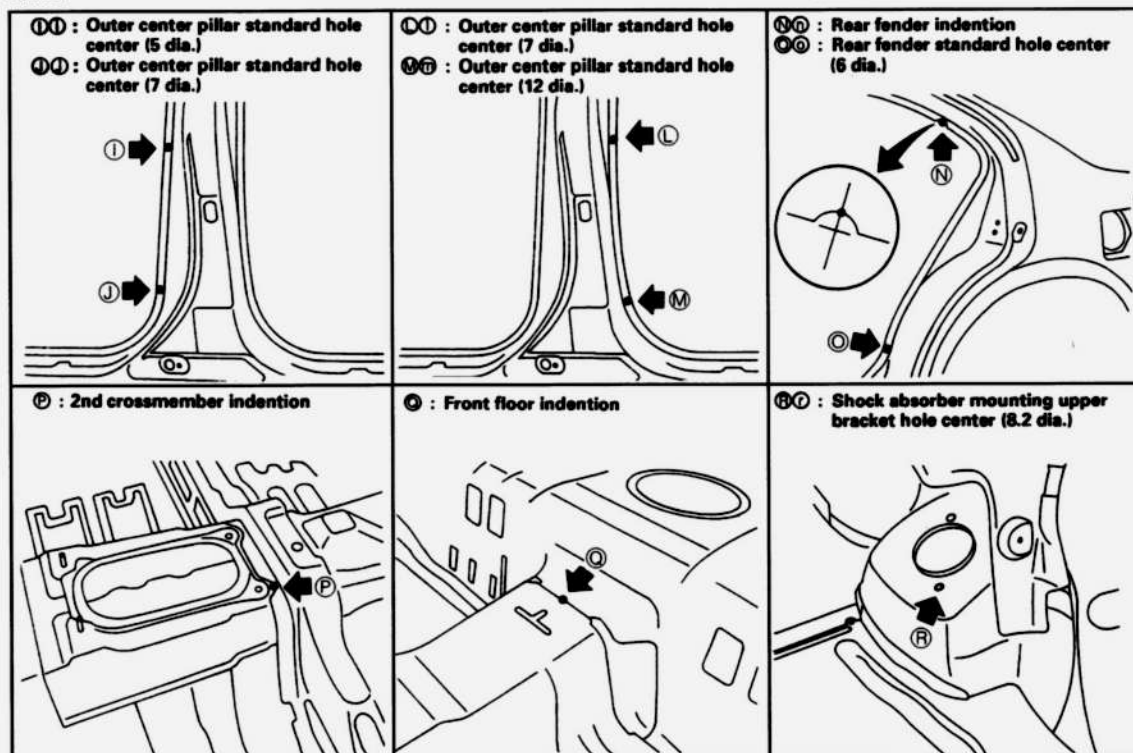
MEASUREMENT



Point	Dimension
C~C	1,146
E~e	1,189
F~f	1,442
G~g	1,426
H~h	1,239
I~i	1,470
J~j	1,431
K~k	1,237
L~l	1,470
M~m	1,429
N~n	1,296
O~o	1,419
P~E	1,082
P~F	913
P~H	1,201
P~I	964
Q~K	1,077*
Q~N	1,214*
Q~L	878*
Q~O	827*

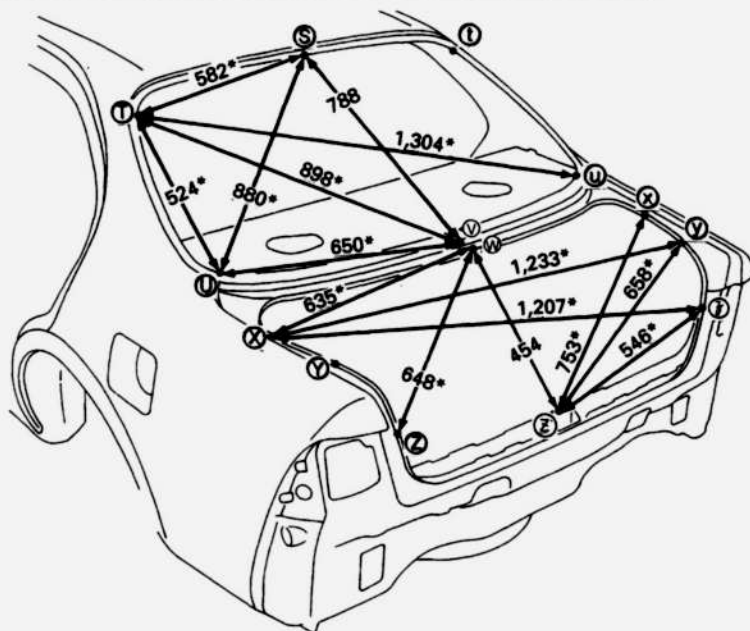
Figures marked with a * show symmetrically identical dimensions on both right and left hand sides of the vehicle.

Unit: mm



REAR BODY

MEASUREMENT

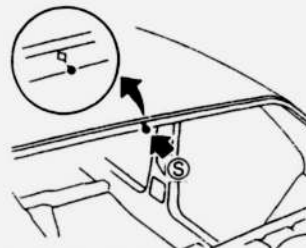


Point	Dimension
①~①	1,144
②~②	1,247
③~③	1,267
④~④	1,177
⑤~⑤	1,053

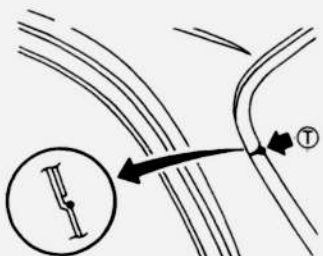
Unit: mm

Figures marked with a * show symmetrically identical dimensions on both right and left hand sides of the vehicle.

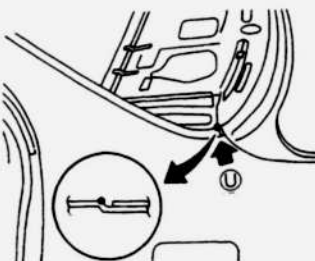
⑤ : Rear roof flange end at center positioning mark



①① : Rear fender joggle

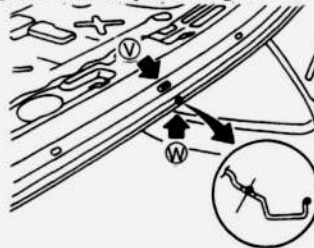


②② : Rear fender joggle



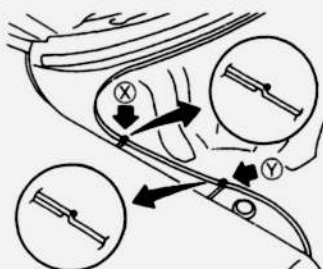
④ : Rear waist molding installing hole upper side (7 x 11)

⑥ : Rear waist panel flange end

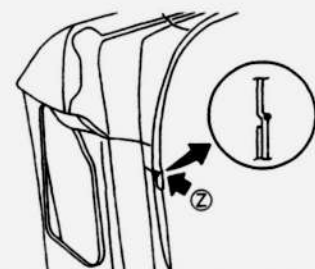


③③ : Rear fender joggle

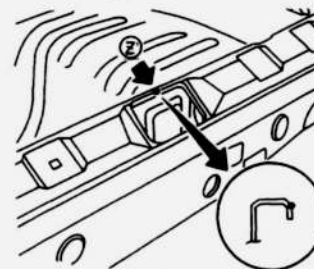
④④ : Rear fender corner joggle



⑤⑤ : Rear fender corner joggle



⑦ : Rear panel trunk lid lock installing hole flange end

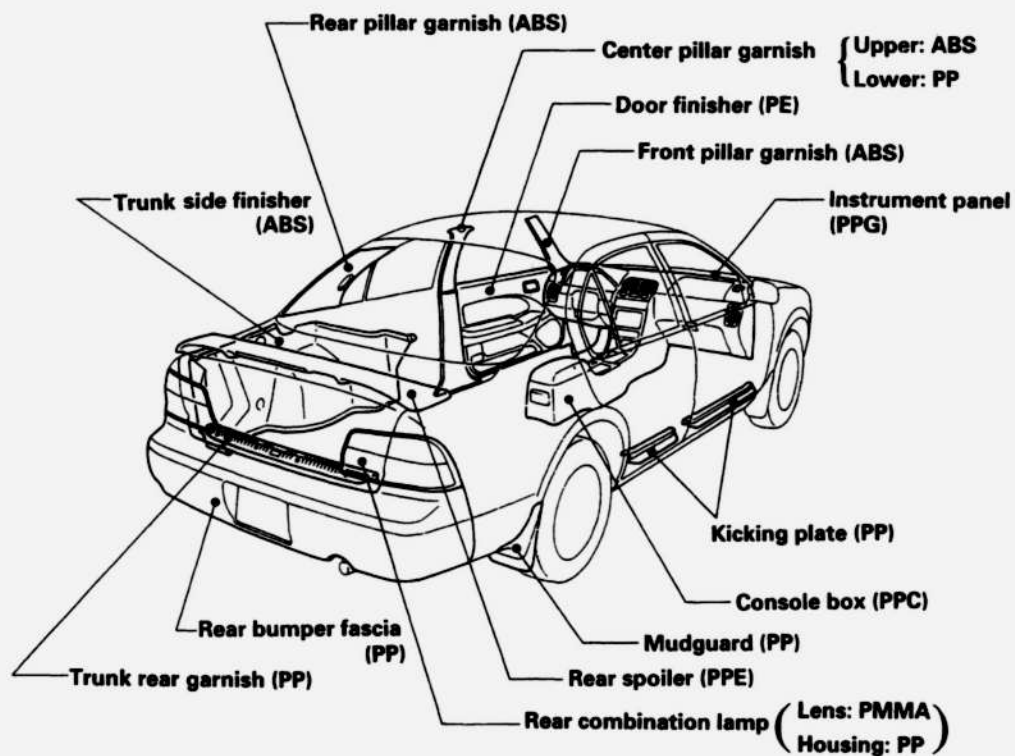
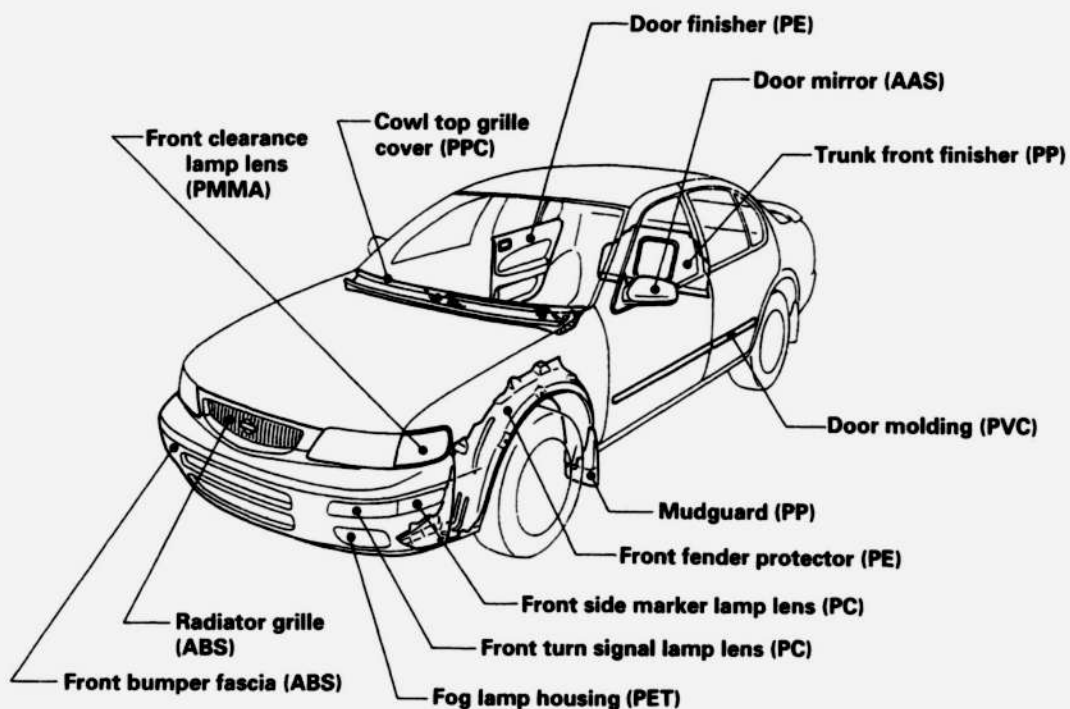


HANDLING PRECAUTIONS FOR PLASTICS

Abbreviation	Material name	Heat resisting temperature °C (°F)	Resistance to gasoline and solvents	Other cautions
PE	Polyethylene	80 (176)	Gasoline and most solvents are harmless.	Flammable
PET	Polyethylene terephthalate	180 (356)	Gasoline and most solvents are harmless.	
PVC	Polyvinyl chloride	80 (176)	Gasoline and most solvents are harmless if applied for a very short time (wipe up quickly).	Poison gas is emitted when burned.
PP	Polypropylene	90 (194)	Same as above. Also avoid battery acid.	Flammable
ABS	Acrylonitrile butadiene styrene resin	80 (176)	Avoid gasoline and solvents.	
AES	Acrylonitrile ethylene styrene	80 (176)	Avoid gasoline and solvents.	
PMMA	Polymethyl methacrylate	85 (185)	Avoid gasoline and solvents.	
PUR	Polyurethane	90 (194)	Gasoline and most solvents are harmless.	Avoid battery acid.
AAS	Acrylonitrile acrylic rubber styrene	85 (185)	Avoid gasoline and solvents.	
AS	Styrene-acrylonitrile	85 (185)	Avoid gasoline and solvents.	
PPO	Polyphenylene oxide	110 (230)	Avoid gasoline and solvents.	
POM	Polyacetal	120 (248)	Gasoline and solvents are harmless.	Avoid battery acid.
PC	Polycarbonate	120 (248)	Avoid gasoline and solvents.	
PA	Polyamide (Nylon)	140 (284)	Gasoline and most solvents are harmless.	Avoid immersing in water.
FRP	Fiber reinforced plastics	170 (338)	Gasoline and most solvents are harmless.	Avoid battery acid.
PPC	Polypropylene composite	115 (239)	Gasoline and most solvents are harmless.	Flammable
PBT	Polybutylene terephthalate	140 (284)	Gasoline and most solvents are harmless.	
TPR	Thermoplastic rubber	80 (176)	Avoid gasoline and solvents.	
TPE	Thermoplastic elastomer	80 (176)	Avoid gasoline and solvents.	
TPUR	Thermoplastic polyurethane	80 (176)	Avoid gasoline and solvents.	

1. When repairing and painting a portion of the body adjacent to plastic parts, consider their characteristics (influence of heat and solvent) and remove them if necessary or take suitable measures to protect them.
2. Plastic parts should be repaired and painted using methods suitable to the materials.

LOCATION OF PLASTIC PARTS



PRECAUTIONS FOR HANDLING HIGH STRENGTH STEEL (HSS)

High strength steel has been used as body panels in order to reduce vehicle weight. Accordingly, precautions in repairing automotive bodies utilizing high strength steel panels are described below:

HIGH STRENGTH STEEL (HSS) USED IN NISSAN VEHICLES

Tensile strength	Nissan designation	Major applicable parts
373 N/mm ² (38 kg/mm ² , 54 klb/sq in)	NP130	• Side member • Hoodledge • Pillar • Hood • Trunk lid outer
785 – 981 N/mm ² (80 – 100 kg/mm ² , 114 – 142 klb/sq in)	NP150	• Bumper reinforcement • Door guard bar

In Nissan vehicles, HHS panels of 373 N/mm² (38 kg/mm², 54 klb/sq in) (NP130) are most commonly utilized, panels with a tensile strength of 785 to 981 N/mm² (80 to 100 kg/mm², 114 to 142 klb/sq in) (NP150) are used only on parts requiring significantly more strength.

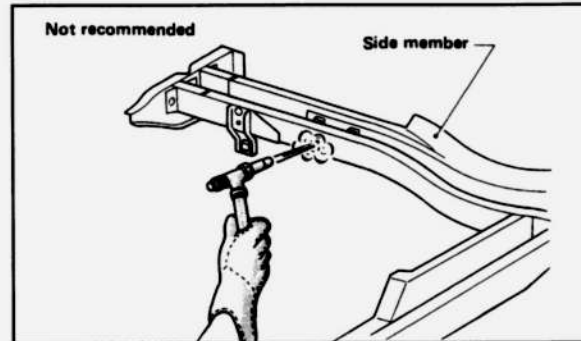
Precautions

PRECAUTIONS FOR HANDLING HIGH STRENGTH STEEL (HSS)

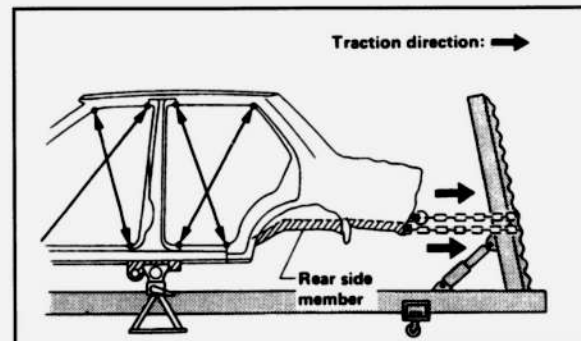
Special consideration for HSS must be given to the following points:

1. Additional points to consider

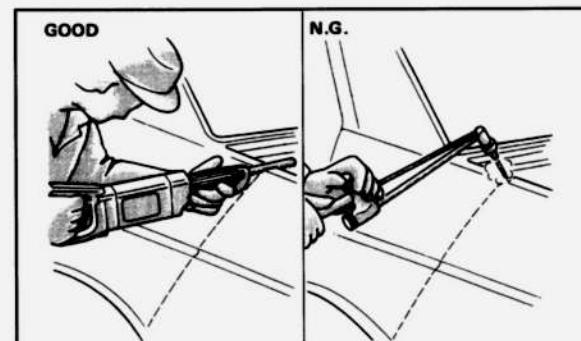
- The repair of reinforcements (such as side members) by heating is not recommended since it involves the risk of lowering strength. When heating is unavoidable, do not heat such parts at temperatures above 550°C (1,022°F). Heating temperature should be verified with a thermometer. (A crayon-type and other thermometer are available.)



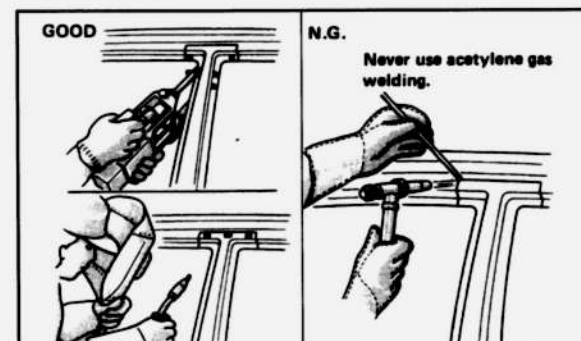
- When straightening body panels, use caution in pulling any HSS panel. Because it is very strong, this may cause deformation in adjacent portions of the body. In this case, increase the number of measuring points, and carefully pull the HSS panel.



- In cutting HSS panel, avoid gas cutting if possible. Instead, use an air saw or a hand cutter to avoid decreasing the strength of surrounding portions due to the influence of heat. In case gas cutting is inevitable, a minimum allowance of 50 mm (1.97 in) must be given.

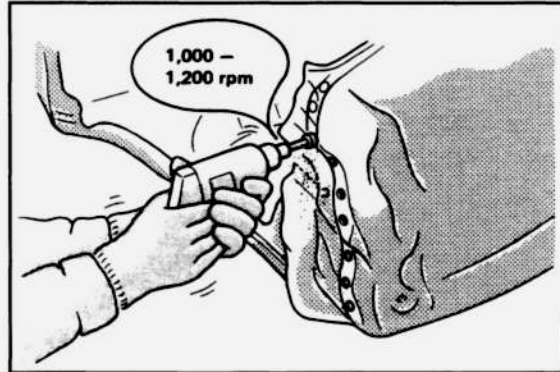


- In welding HSS panel, use spot welding whenever possible in order to minimize any decrease in strength of surrounding portions due to the influence of heat. If spot welding is impossible, use M.I.G. welding. Do not use acetylene gas welding because it is inferior in welding strength.



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- The spot nugget on HSS panel is harder than that of an ordinary steel panel. Therefore, for spot cutting HSS panel, a high torque drill of a low speed (1,000 to 1,200 rpm) may be used to maintain its durability and facilitate the operation.

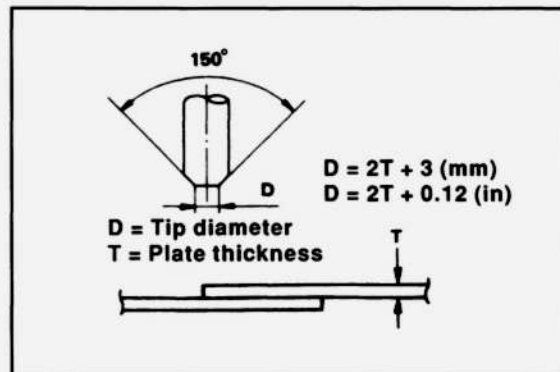


- HSS panels with a tensile strength of 785 to 981 N/mm² (80 to 100 kg/mm², 114 to 142 klb/sq in), used as reinforcement in the door guard bar and in the bumper, is too high in tensile strength to use for general repairs. When these parts are damaged, the puter panels also sustain consequential damage; therefore, these panels are never repaired without replacing the door assembly or bumper assembly.

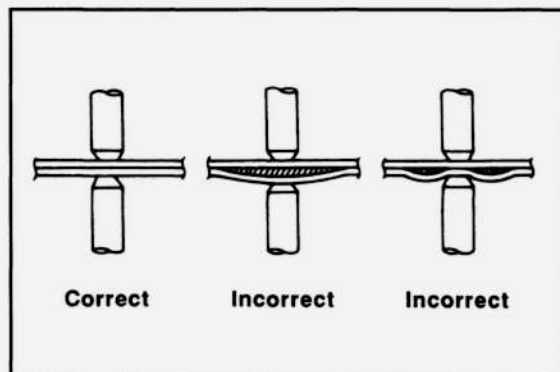
2. Precautions in spot welding

This work should be performed under standard work conditions. However, work control must be exercised as follows:

- The electrode tip diameter must be reformed properly according to the plate thickness.



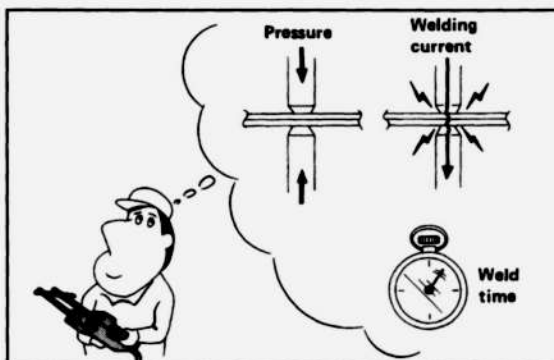
- The panel surfaces must be fitted to each other, leaving no gaps.



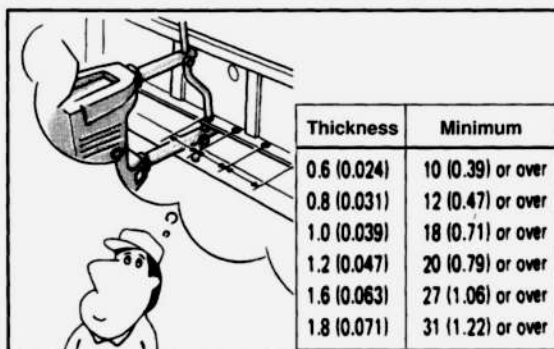
Precautions

PRECAUTIONS FOR HANDLING HIGH STRENGTH STEEL (HSS)

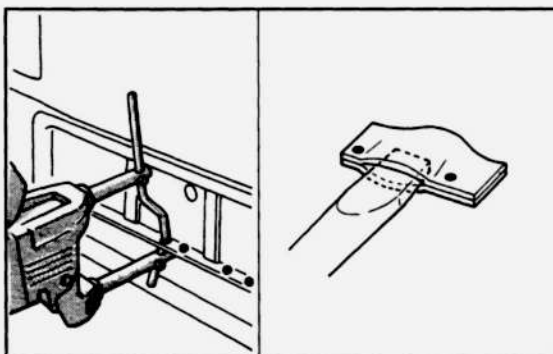
- Follow established specifications for the appropriate pressure level, current level and weld time.



- Follow the specifications for the proper welding pitch.



- After welding, welding strength must be tested.

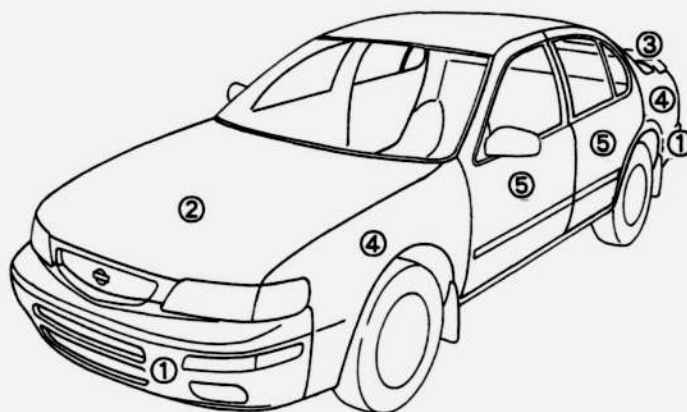


THEFT PREVENTION FOR BODY PARTS (For U.S.A.)

This vehicle complies with the U.S. Federal Motor Vehicle Theft Prevention Standard (49 CFR Part 541). Certain body parts (see illustration) are labeled at the factory, the labels show the VIN-number of this vehicle.

Spare parts are similarly labeled at the factory in a different location. The labels show the letter R (for replacement) instead of the VIN-number.

These labels are intended for parts identification in case of theft.



Location of labels

- ① Bumper front/rear
- ② Hood
- ③ Trunk lid
- ④ All fenders
- ⑤ All doors

Notes:

- Do not remove these labels.
- Do not damage or spray paint over these labels, when repairing.
- Make sure the replacement parts you received have labels.
- After spraying the paint, remove the masking tape placed over the labels.

