FOREWORD

This repair manual has been prepared to provide information on the repair methods (including cutting and welding operations, but excluding painting) recommended by TOYOTA for collision damaged body components of the TOYOTA SUPRA.

Applicable models: MA70 series

This manual consists of body repair methods, exploded diagrams and illustrations of the body components and other information relating to body panel replacement such as handling precautions, tools, equipment, etc. However, it should be noted that the front fenders of all TOYOTA models are bolted on and require no welding.

Body construction will sometimes differ depending on specifications and country of destination. Therefore, please keep in mind that the information contained herein is based on vehicles for general destinations.

For the service of specifications and repair procedures other than collision-damaged body components of the TOYOTA SUPRA, refer to the following repair manuals.

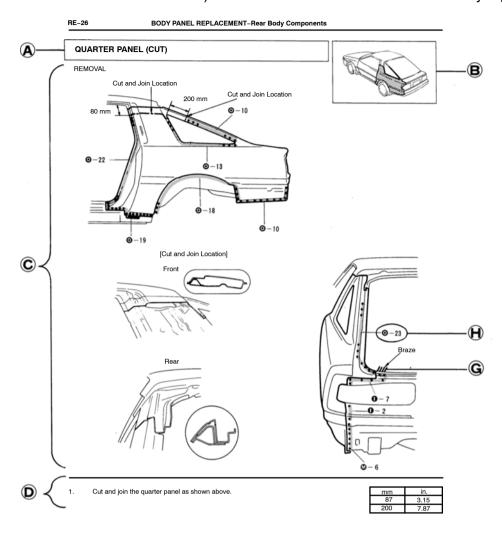
Manual Name	Pub. No.
7M-GE Engine Repair Manual	RM029E
TOYOTA SUPRA Chassis and Body Repair Manual	RM027E
TOYOTA SUPRA Chassis and Body Repair Manual Supplement	RM036E
TOYOTA SUPRA Electrical Wiring Diagram Manual	EWD013E
TOYOTA SUPRA Repair Manual (USA and Canada)	M/Y Version
TOYOTA SUPRA Electrical Wiring Diagram Manual (USA and Canada)	M/Y Version
Fundamental Body Repair Procedures	BRM002E
Fundamental Painting Procedures	36438E

All information contained in this manual is the most up-to-date at the time of publication. However, specifications and procedures are subject to change without prior notice.

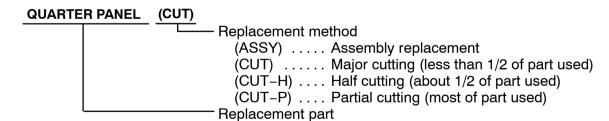
TOYOTA MOTOR CORPORATION

HOW TO USE THIS MANUAL

Each repair method description provided in Section RE of this manual comprises two pages, divided into 2 blocks (REMOVAL AND INSTALLATION) and includes illustrations to facilitate body repair.



(A): REPLACEMENT PART AND METHOD

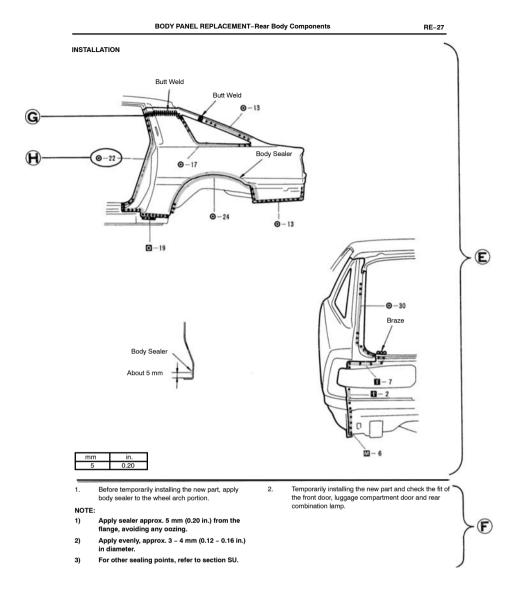


- **B**: BODY VARIATIONS AND PART LOCATION
 - Body variations: Non All models
- C: REMOVAL DIAGRAM

Describes in detail removal of the damaged part involving repair by cutting.

(D): REMOVAL GUIDE

Provides additional information to more efficiently help you perform the removal.



E: INSTALLATION DIAGRAM

Describes in detail installation of the new part involving repair by welding and/or cutting, but excluding painting.

F: INSTALLATION GUIDE

Provides additional information to more efficiently help you perform the installation.

G: SYMBOLS

See page IN-4.

(H): ILLUSTRATION OF WELD POINT

Weld method and panel position symbols. See page IN-5.

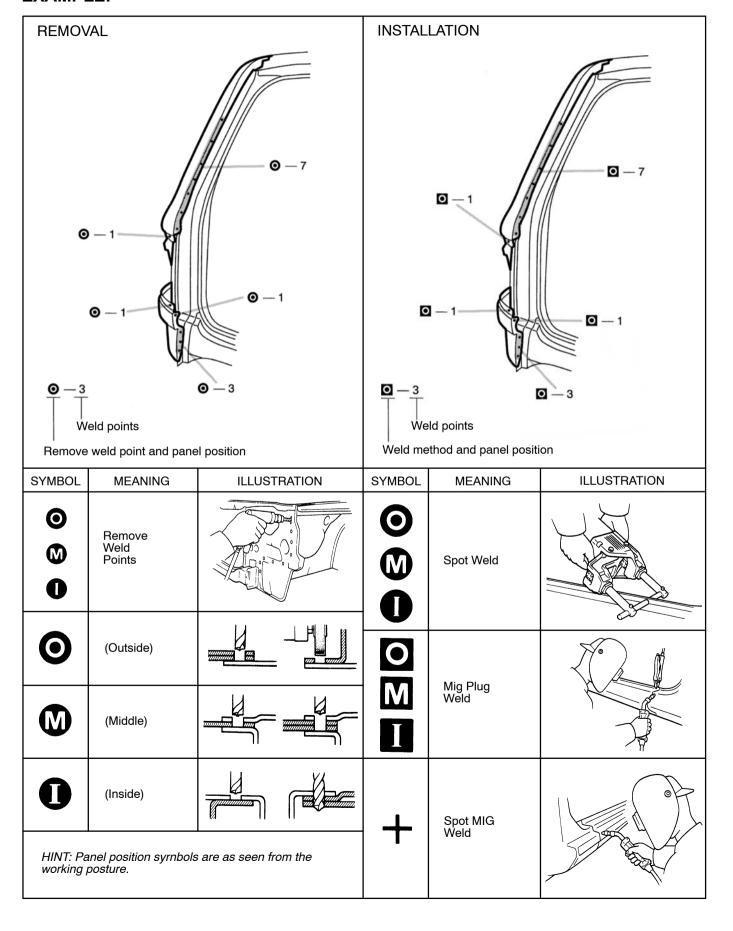
SYMBOLS

The following symbols are used in the welding Diagrams in Section RE of this manual to indicate cutting areas and the types of weld required.

SYMBOLS	MEANING	ILLUSTRATION
	SAW CUT OR ROUGH CUT	
///////////////////////////////////////	REMOVE BRAZE	
	WELD POINTS SPOT WELD OR MIG PLUG WELD (See page IN-5)	
	CONTINUOUS MIG WELD (BUTT WELD OR TACK WELD)	
ထာ	BRAZE	
	BODY SEALER	

Illustration of Weld Point Symbols

EXAMPLE:



GENERAL REPAIR INSTRUCTIONS

Work Precautions

SAFETY

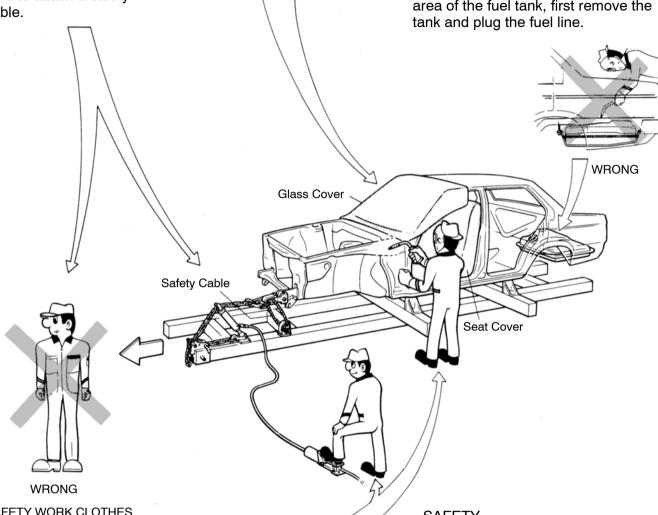
Never stand in direct line with the chain when using a puller an the body or frame, and be sure to attach a safety cable.

VEHICLE PROTECTION

When welding, protect the painted surfaces, windows, seats and carpet with heatresistant, fire-proof covers.

SAFETY

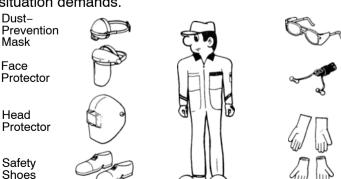
- Before performing repair work, check for fuel leaks. If a leak is found, be sure to close the opening totally.
- 2. If it is necessary to use a frame in the area of the fuel tank, first remove the



SAFETY WORK CLOTHES

In addition to the usual mechanic wear, cap and Safety shoes, the necessary gloves, head protector, glasses, ear plugs, face protector, dust-prevention mask, etc. should be worn as the situation demands.

SAFETY Before performing repair work, disconnect the battery cables.





Welder's

Glasses

Ear

Plugs

Welder's Gloves

Cotton Gloves Body Mechanic Stand

HAND TOOLS Keeping your hand tools in neat order will have an effect on your work efficiency.

Proper and Efficient Work Procedures

REMOVAL

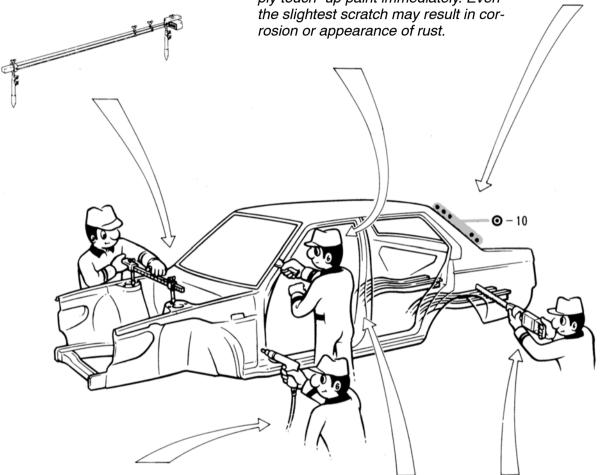
PRE-REMOVAL MEASURING Before removal or cutting operations, take measurements in accordance with the dimension diagram. Always use a puller to straighten a damaged body or frame. REMOVAL. OF ADJACENT COMPONENTS When removing adjacent components, apply protective tape to the surrounding body and your tools to prevent damage. *CAUTION:*

1. Be especially careful not to damage screw or clip holes.

2. If the paint is accidently scratched, apply touch-up paint immediately. Even the slightest scratch may result in cor-

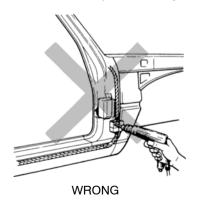
NO. OF SPOT WELDS Make a note of the number of spot welds for later reference.

NOTE: The number of spot welds may vary depending on the vehicle.



PRECAUTIONS FOR DRILLING OR CUTTING

Check behind any area to be drilled or cut to insure that there are no hoses, wires, etc., that may be damaged.



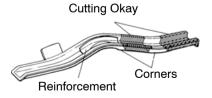
REMOVAL OF ADJACENT PARTS

When removing adjacent parts by avoid accidental marring, etc., wrapping the tools used and surrounding body parts in protective tape.

NOTE:

- Take particular care not to damage any screw or clip holes.
- 2) If you do scratch a painted surface, retouch immediatly after. Even a small scratch will result in rust and corrosion.

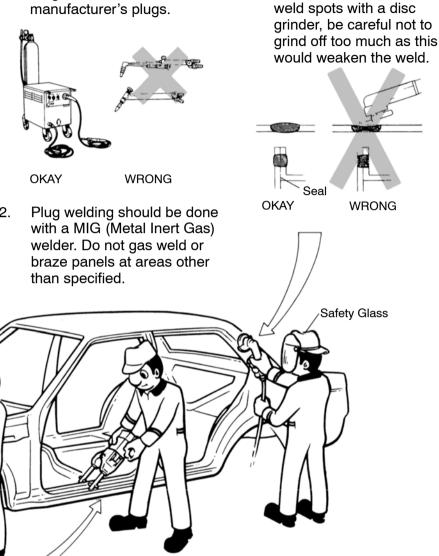
CUTTING AREA Always cut in a straight line and avoid reinforced areas.



PRE-WELDING MEASUREMENTS Always take measurements before installing underbody or engine components to insure correct assembly. After installation, confirm proper fit.

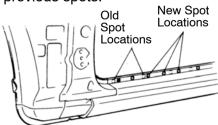
WELDING PRECAUTIONS

 The number of welding spots should be as follows.
 Spot weld: 1.3 x No. of manufacturer's spots.
 Plug weld: More than No. of manufacturer's plugs.

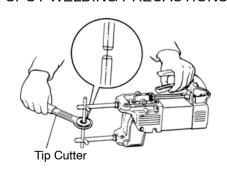


SPOT WELD LOCATIONS Try to avoid welding over previous spots.

Body Measurement Diagrams



SPOT WELDING PRECAUTIONS



1. The shape of the welding tip point has an effect on the strength of the weld.

POST-WELDING REFINISH-

Always check the welded

spots to insure they are

When smoothing out the

ING

2.

secure.

 Always insure that the seams and welding tip are free of paint.

PREPARATION FOR INSTALLATION

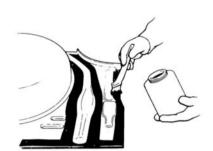
SPOT WELD POINTS

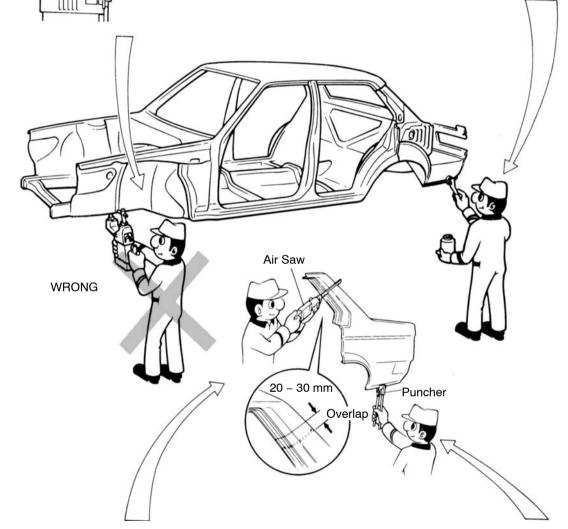
Less than 3 mm | | When welding panels with a combined thickness of over 3 mm (0.12 in.), use a MIG (Metal Inert Gas) welder for plug welding.

NOTE: Spot welding will not provide sufficient durability for panels over 3 mm (0.12 in.) thick.

APPLICATION OF WELD-THROUGH PRIMER

For treatment against corrosion, remove the paint from the portion of the new part and body to be welded, and apply weld—through primer.





ROUGH CUTTING OF JOINTS For joint areas, rough cut the new part, leaving 20 – 30 mm (0.79 – 1.18 in.) overlap. MAKING HOLES FOR PLUG WELDING For areas where a spot welder cannot he used, use a puncher or drill to make holes for plug welding.

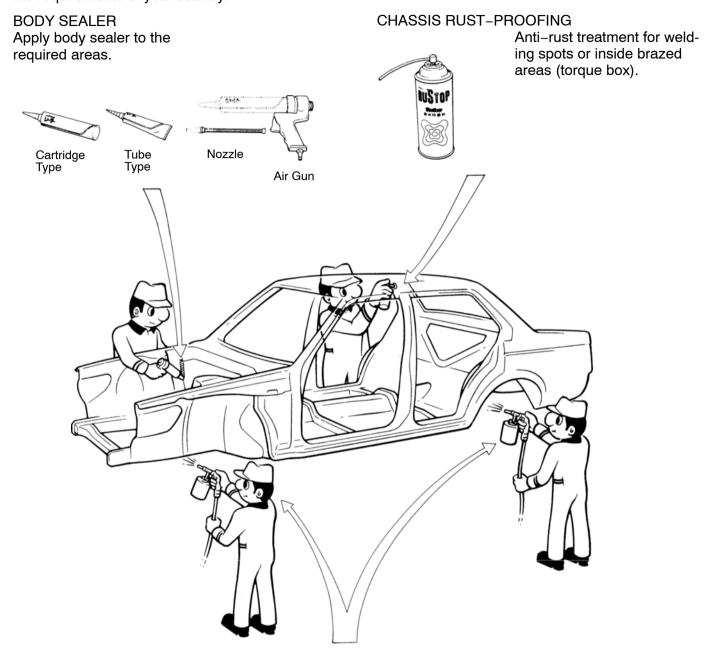
REFERENCE:

mm (in.)

Thickness of welded portion	Size of plug hole
1.0 (0.04) under	5 (0.20) ϕ over
1.0 (0.04) over	6.5 (0.26) \$\phi\$ over

ANTI-CORROSIVE TREATMENT

When replacing body panels, always apply body sealer, anti-rust treatment or undercoating according to the requirements of your country.





Undercoating (Oil base)



Undercoating (Water base)



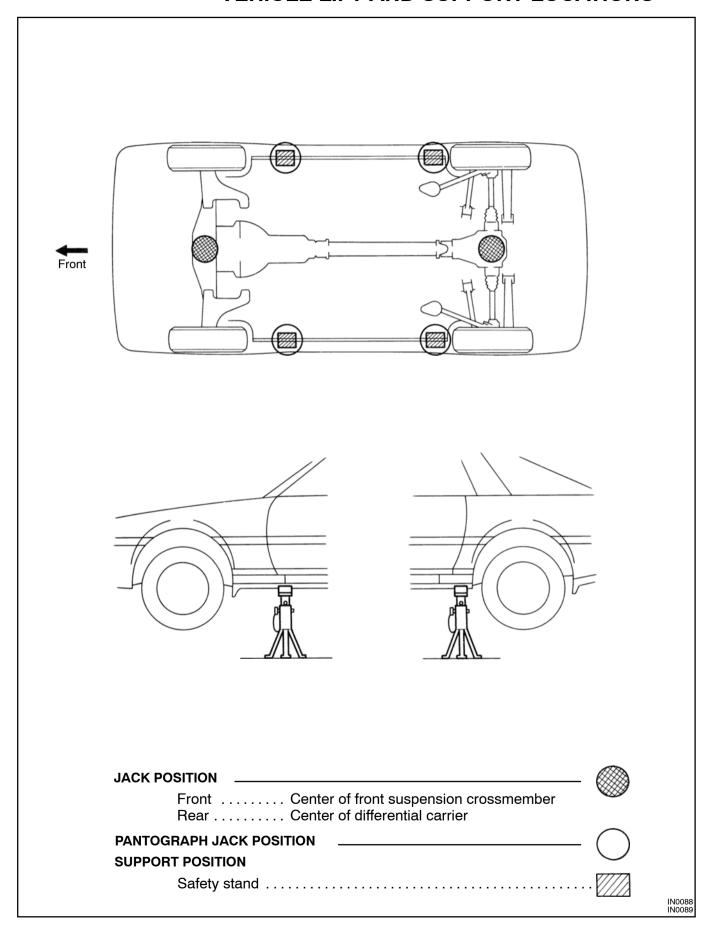
Spray Gun

UNDERCOATING

Anti-rust treatment for underbody welding spots and wheel housings.

INTRODUCTION IN-11

VEHICLE LIFT AND SUPPORT LOCATIONS



ABBREVIATIONS USED IN THIS MANUAL

For convenience, the following abbreviations are used in this manual.

Assy, assy Assembly, assembly

Sub-assy Sub-assembly

Ex. Except in. Inch

IRS Independent Rear Suspension

4-link Rear Suspension

MIG Metal Inert Gas
M/Y Model Year
OPN Operation

SP Spot Weld (Resistance Spot Weld)

w/ With
w/o Without
FR Front
RR Rear

RH Right-hand

RHD Right-hand Drive

LH Left-hand

LHD Left-hand Drive

MEASURING INSTRUMENTS

Tracking Gauge	For measuring body dimensions
Frame Centering Gauge	When 3 or 4 are used together, measurements of twists, bends or warps in the body and frame are possible.

SEPARATING TOOLS

Air-powered Drill	For separating spot welds and making holes in the body.
Electric- powered Drill	For separating spot welds and making holes in the body.
Spot Cutter	For separating spot welds.
Air-powered Cutter	For cutting panels.
Air-powered Chuck Grinder	For separating spot and plug welds and grinding off traces of plug welds.

SEPARATING TOOLS (Cont'd)

	Air-powered Chisel	For rough cutting and rough flattening of panels.
	Panel Cutter	For rough cutting of panels.
	Flat Chisel	For separating spot welds.
	Hammer Tool	For rough flattening in hard-to-reach areas.
	Air-powered Saw	For rough cutting of pillars, rocker panels, etc.
	Air-powered Saw	For rough cutting of pillars, rocker panels, etc.
800	Hacksaw	For rough cutting of pillars, rocker panels, etc.

INSTALLATION ASSISTANCE TOOLS

INO IALLATION ACCIO	IANGE TOOLG	
	Vise Grip Wrench	For temporary installation of panels and holding of portions to be welded.
	Flanging Tool	For making flanges in overlapping panels.
	Hemming Tool	For hemming door outer panels, etc.
	Hole Punch	For making holes for MIG plug welding.

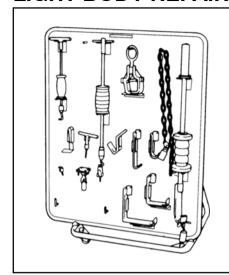
BODY PROTECTORS

Seat Cover	For protecting the seats from welding sparks, etc.
Glass Cover	For protecting the glass from welding sparks, etc.

WELDING INSTRUMENTS

WEEDING INSTITUTE		i
	MIG Welder (Metal Inert Gas)	For panel welding.
	Spot Welder	For panel welding.
	Gas Welder Torch Gas Cutter Torch	For rough cutting of panels, members, etc.
	Acetylene Gas Torch	For soldering and peeling of paint.
	Straightening Machine	For straightening distorted panels.
	Panel Extractor	For extraction of closed-in panels.

LIGHT BODY REPAIR TOOLS



Body Pullers

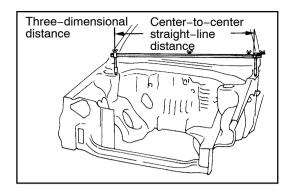
For straightening lightly damaged panels.

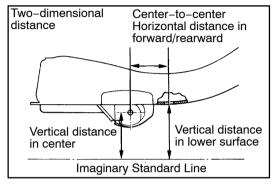
GRINDING AND POLISHING TOOLS

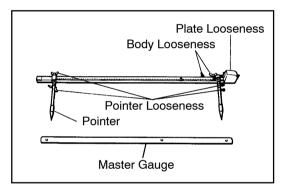
Air-powered Disc Grinder	For grinding plug welds, butt welds and door hems.
Electric- powered Disc Sander	For grinding plug welds, butt welds and door hems.
Belt Sander	For removing paint around weld areas.
Double-action Sander	For rough grinding and polishing, and feather edging.

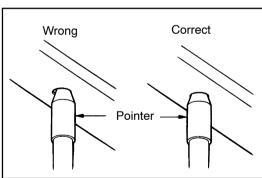
GRINDING AND POLISHING TOOLS (Cont'd)

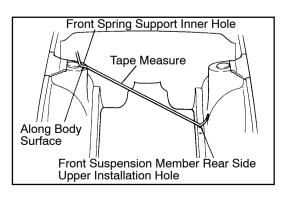
Straight-line Sander	For rough polishing of panel putty.
Air-powered Orbital Sander	For removing putty over a wide area, resurfacing and refinishing.
Air-powered Disc Sander	For peeling paint.
File Holder	For paint removal.
Flexible File Holder	For correction of soldering spots and resurfacing of panels.
Surforrn Tool	For rough finishing of panels.











GENERAL INFORMATION

1. BASIC DIMENSIONS

- (a) There are two types of dimensions in the diagram. (Three–dimensional distance)
 - Straight-line distance between the centers of two measuring points.

(Two-dimensional distance)

- Horizontal distance in forward/rearward between the centers of two measuring points.
- The height from an imaginary standard line.
- (b) In cases in which only one dimension is given, left and right are symmetrical.
- (c) The dimensions in the following drawing indicate actual distance. Therefore, please use the dimensions as a reference.

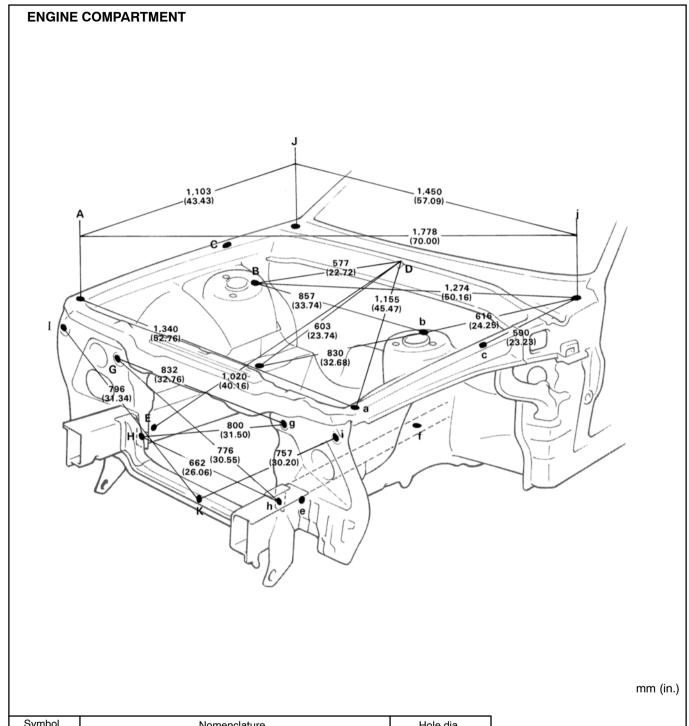
2. MEASURING

- (a) Basically, all measurements are to be done with a tracking gauge. For portions where it is not possible to use a tracking gauge, a tape measure should be used.
- (b) Use only a tracking gauge that has no looseness in the body, measuring plate, or pointers.

HINT:

- 1. The height of the left and right pointers must be equal.
- Always calibrate the tracking gauge before measuring or after adjusting the pointer height.
- 3. Take care not to drop the tracking gauge or otherwise shock it.
- 4. Confirm that the pointers are securely in the holes.
 - (c) When using a tape measure, avoid twists and bends in the tape.
 - (d) When tracking a diagonal measurement from the front spring support inner hole to the suspension member upper rear installation hole, measure along the front spring support panel surface.

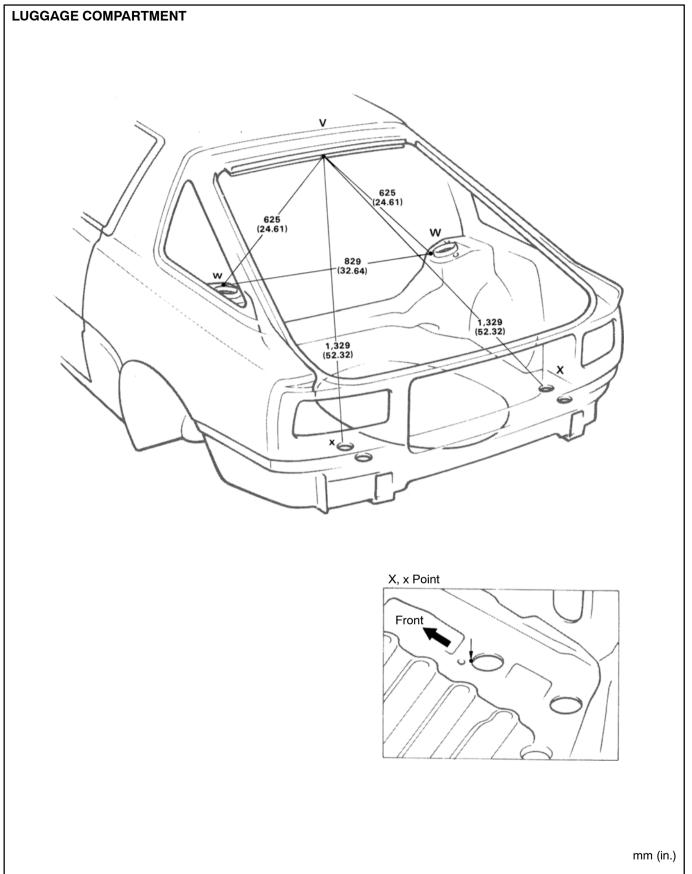
BODY DIMENSION DRAWINGS



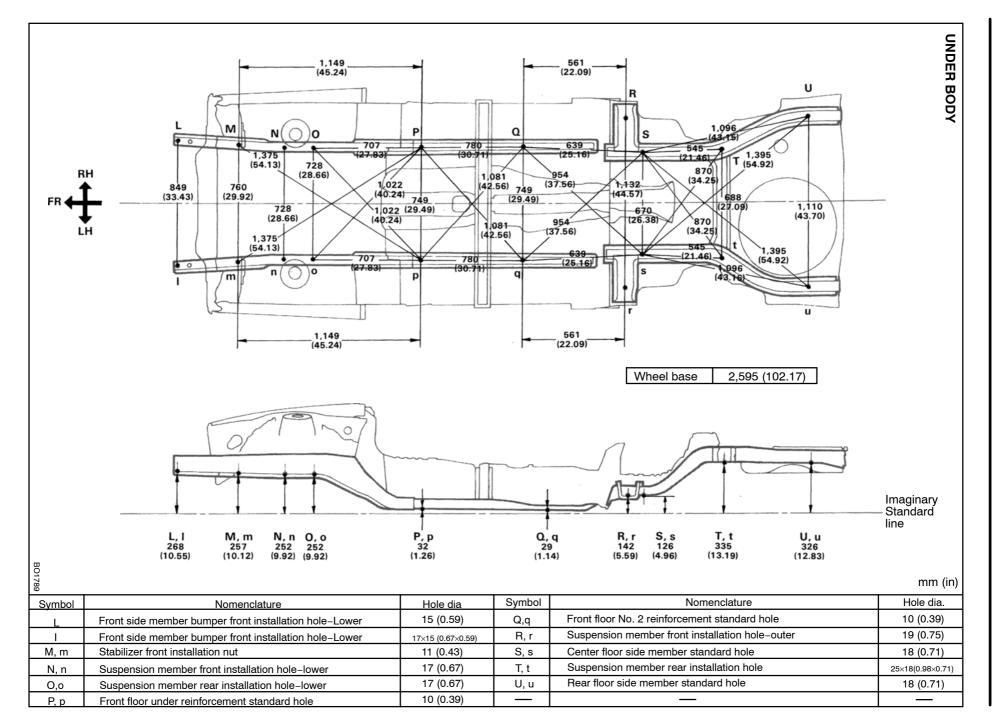
Symbol	Nomenclature	Hole dia.
A, a	Front fender installation nut-front	8 (0.31)
B, b	Front spring support hole-rear	11 (0.43)
C, c	Front fender installation nut-rear	8 (0.31)
D	Cowl top panel center mark	_
E, e	Front side member standard hole	15 (0.59)
F, f	Suspension member rear installation hole-upper	17 (0.67)
G, g	Retractable light bracket installation nut-upper	11 (0.43)
H, h	Radiator seal installation hole-lower	7 (0.28)
l, i	Front fonder aide installation hole	8 (0.31)
J, j	Cowl top panel standard hole	10 (0.39)
K	Hood lock support brace installation nut	7 (0.28)

BO1788

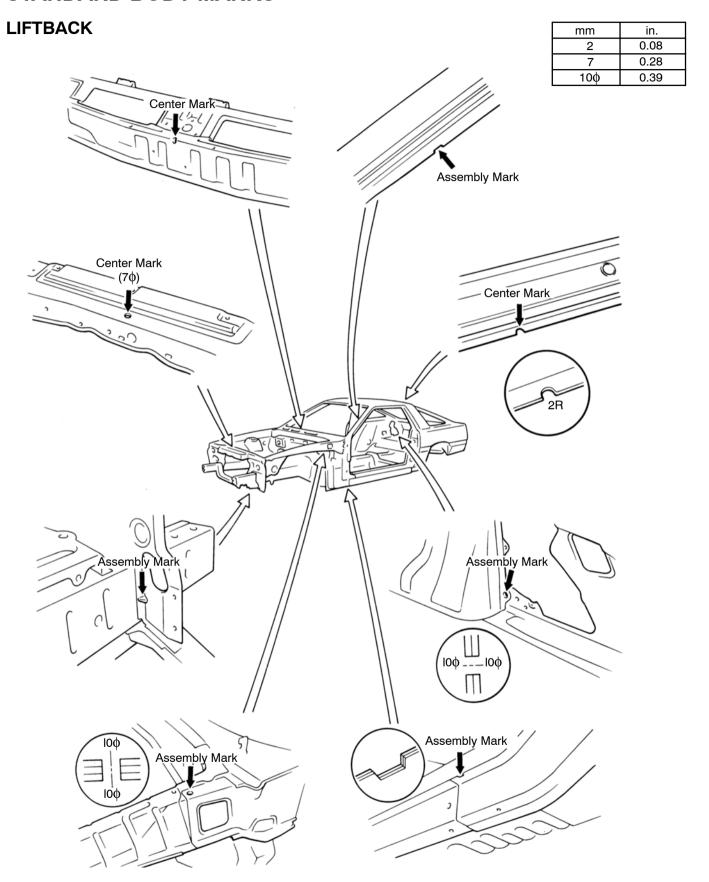
BO1790



Symbol	Nomenclature	Hole dia.
V	Back door opening frame center mark	2 (0.08)
W, w	Rear suspension spring support hole-inner	9 (0.35)
X, x	Rear floor pan bumper installation hole-front	40 (1.57)



STANDARD BODY MARKS



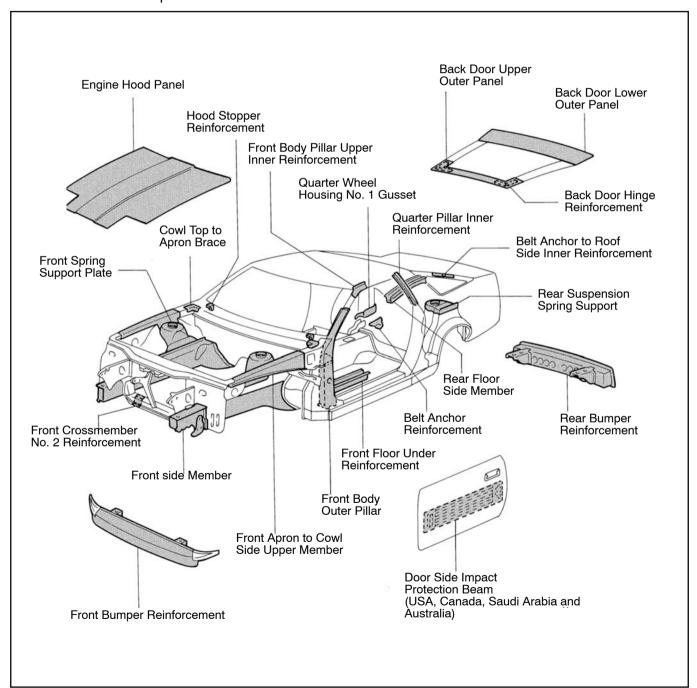
HIGH-STRENGTH STEEL (HSS) PARTS

Generally, High-Strength Steel (HSS) is that which has an intensity value of at least 35 kg f/mm², and distinguished from mild steel.

The handling of HSS is the same as for mild steel, but the following should be observed.

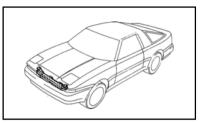
- Panel Hammering; Because HSS is thinner than mild steel, care should be taken to avoid warping during hammering operations.
- 2. Removing Stop Welds: Because HSS is tougher than mild steel, damage will occur more easily to a regular drill. Therefore, an HSS Spot Cutter is recommended.

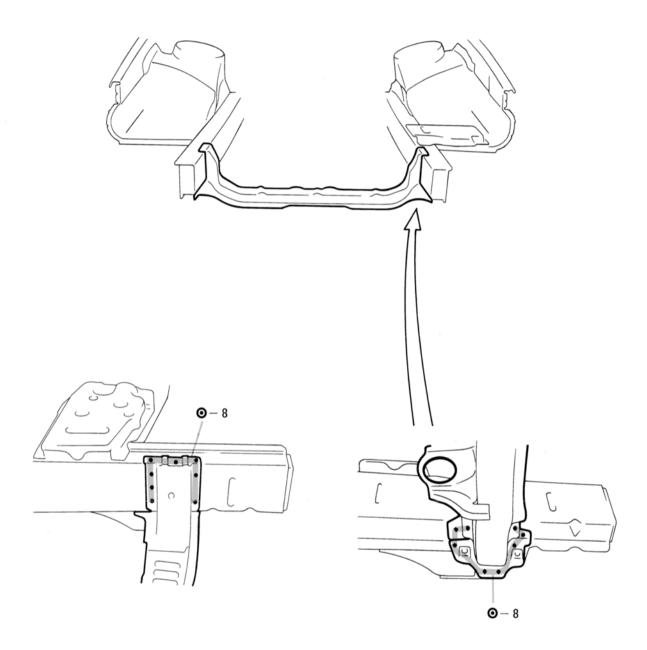
 Also, use a high-torque drill at low speed, and supply grinding oil to the drill during use.
- 3. Panel Welding: Panel welding procedures for HSS are exactly the same as for mild steel. Plug welding should be done with a MIG (Metal Inert Gas) welder. Do not gas weld or braze panels at areas other than specified.

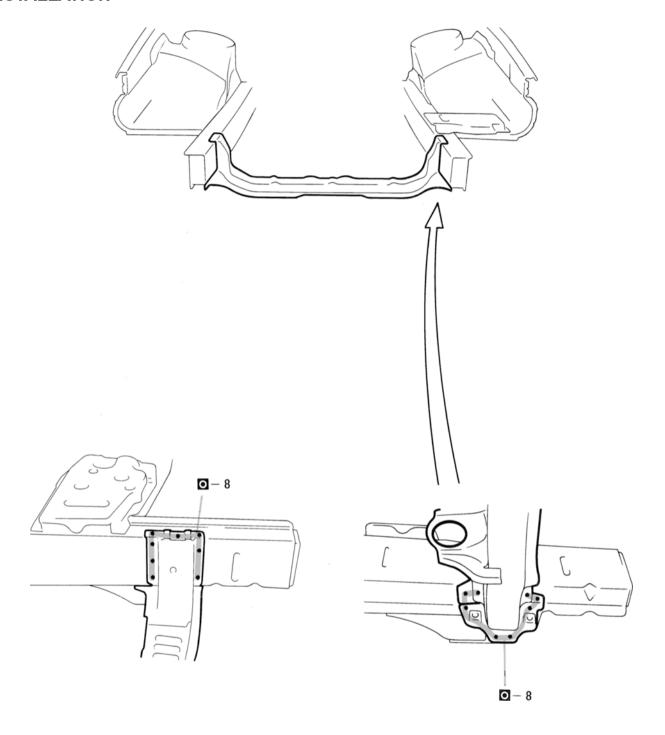


FRONT CROSSMEMBER (ASSY)

REMOVAL



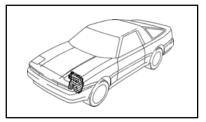


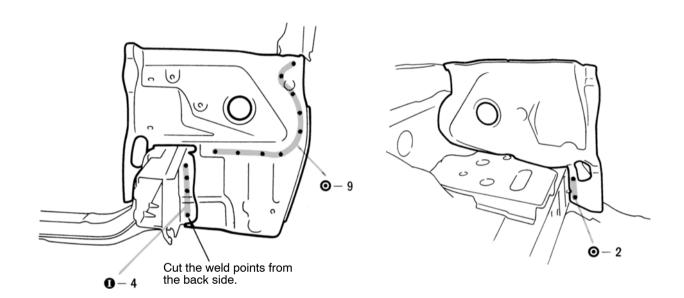


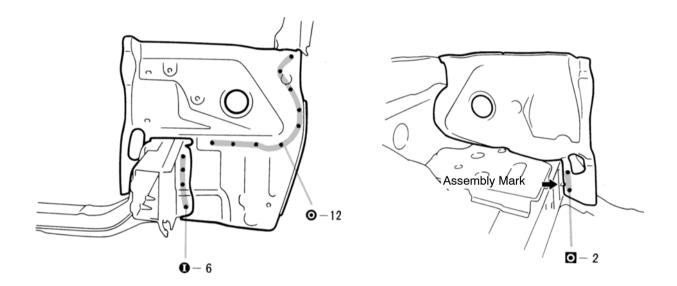
1. Temporarily installing the new part and measure each part in accordance with the body dimension diagram.

RADIATOR SUPPORT (ASSY)

REMOVAL



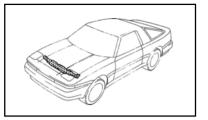


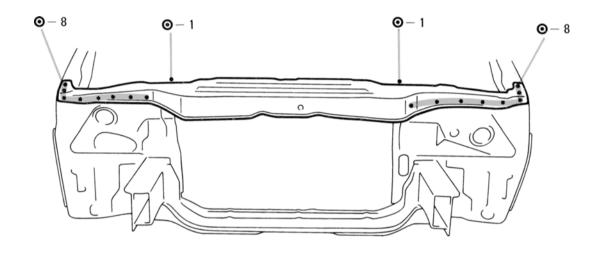


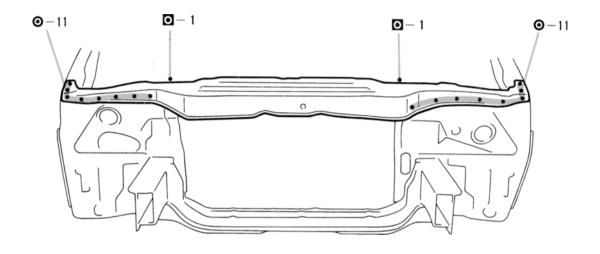
1. Temporarily install the new part with the assembly mark and measure each part in accordance with the body dimension diagram.

RADIATOR UPPER SUPPORT (ASSY)

REMOVAL







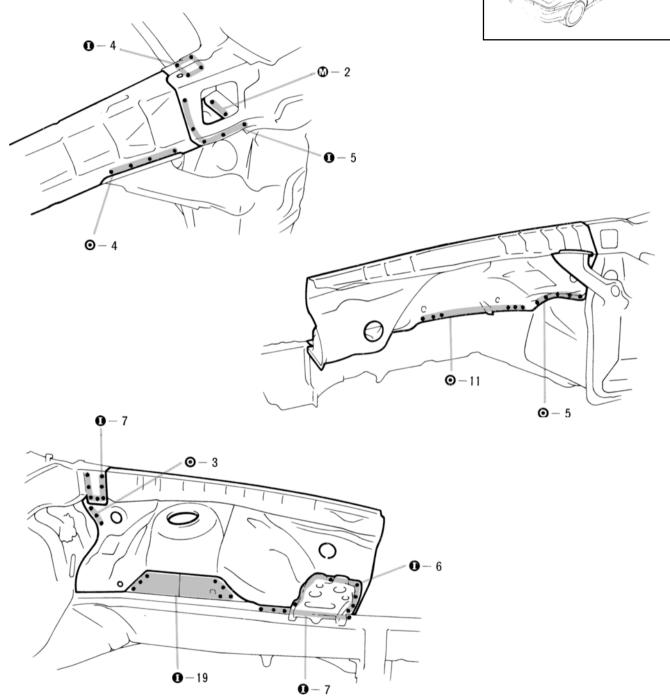
 Temporarily install the new part and measure each part in accordance with the body dimension diagram.

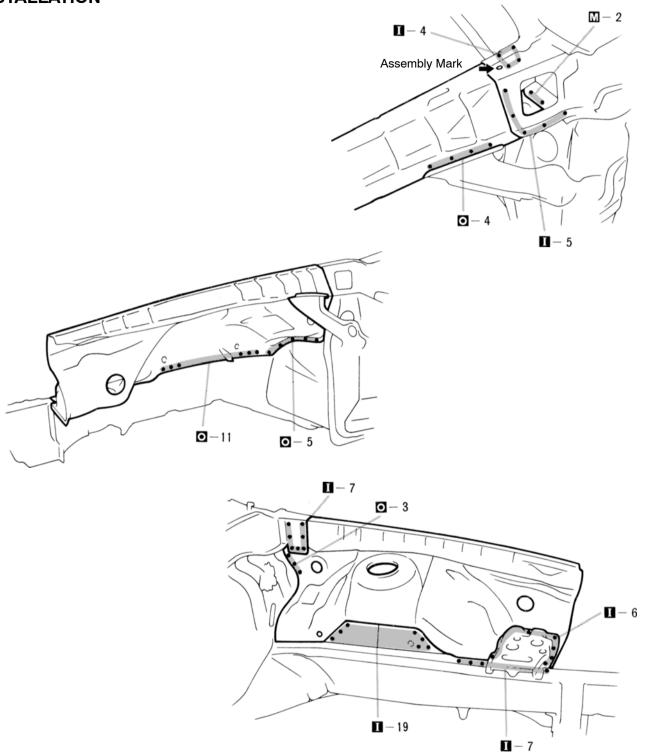
NOTE: Install the new panel with the hood lock support.

FRONT FENDER APRON (ASSY)

REMOVAL







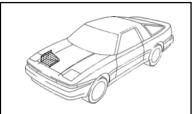
- 1. Determine the installation position of the new part by the assembly mark.
- 2. Measurements must be accurate with the body dimension diagram, as this effects the front wheel alignment.

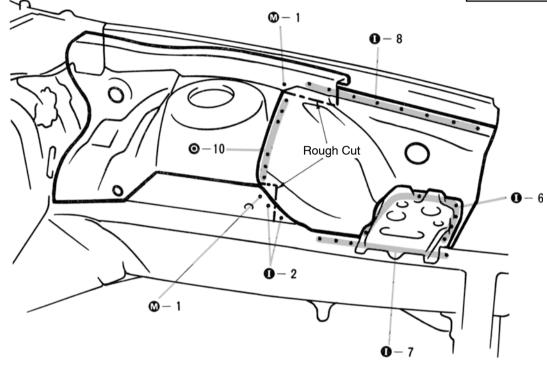
NOTE: The position of the front spring support hole is very important

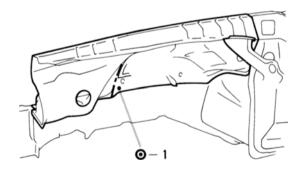
3. Check the fit of the front fender and hood.

FRONT FENDER APRON (CUT-H)

REMOVAL

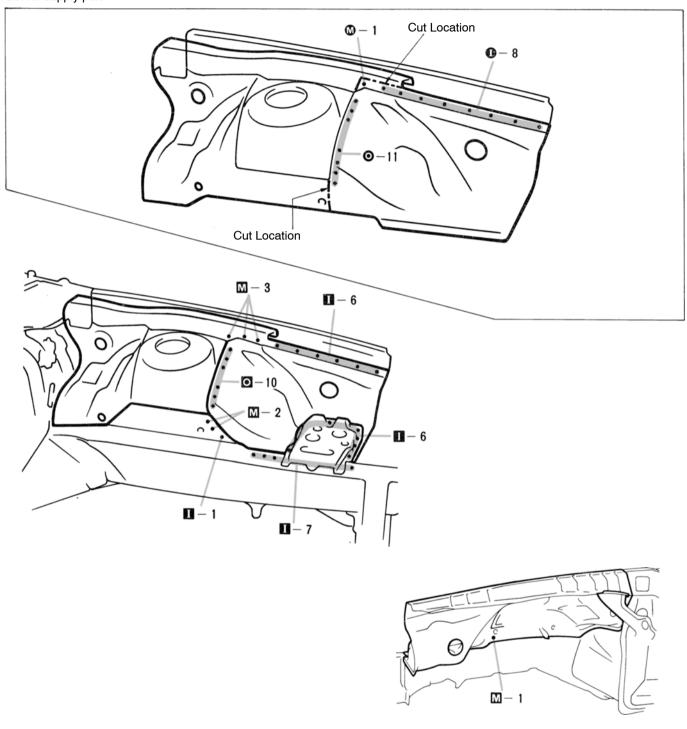






 After removing the spot welds, rough cut the front fender apron shown above.

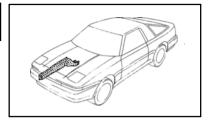
Cut for supply part

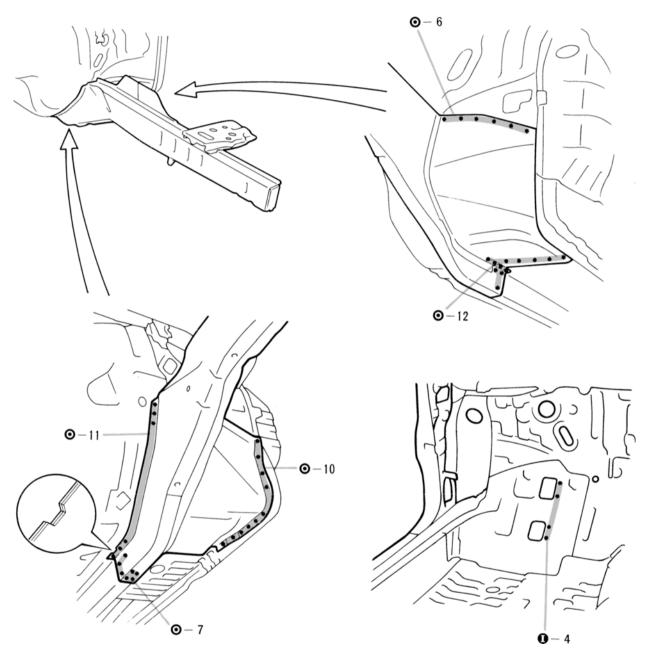


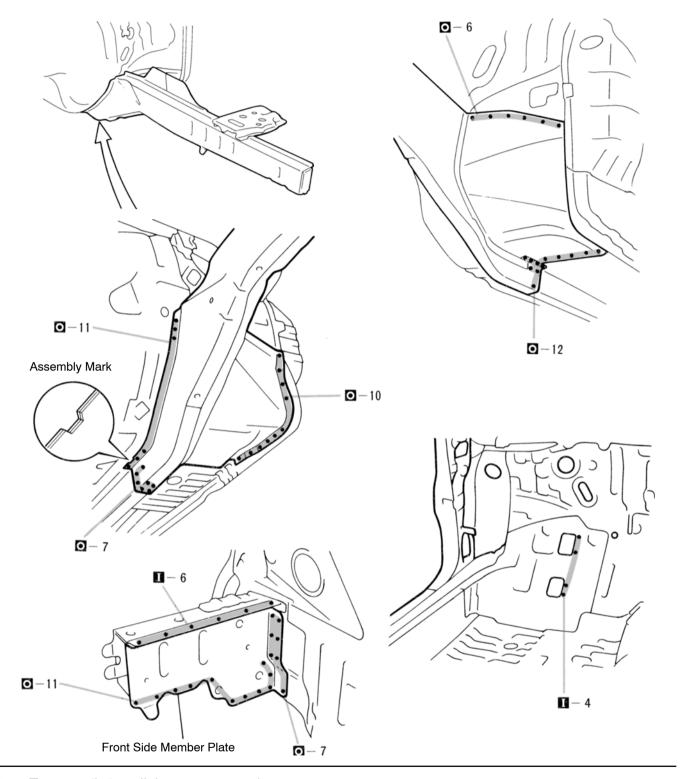
1. Cut the supply part shown above.

FRONT SIDE MEMBER (ASSY)

REMOVAL





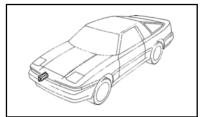


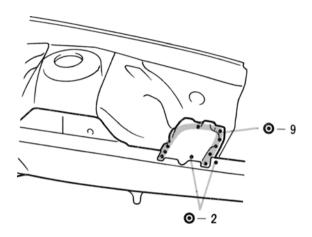
1. Temporarily install the new part and measure each part in accordance with the body dimension diagram.

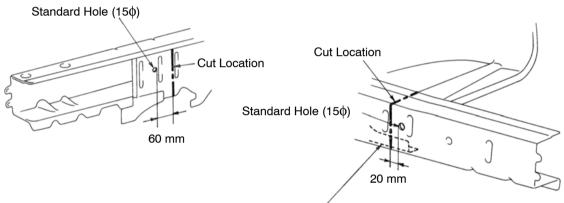
NOTE: Make sure each measurement is correct, as this part effects the front wheel alignment.

FRONT SIDE MEMBER (CUT-P)

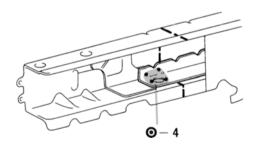
REMOVAL



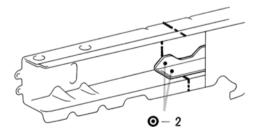




NOTE: Be careful not to damage the reinforcement when cutting the side member.



[USA and Canada]



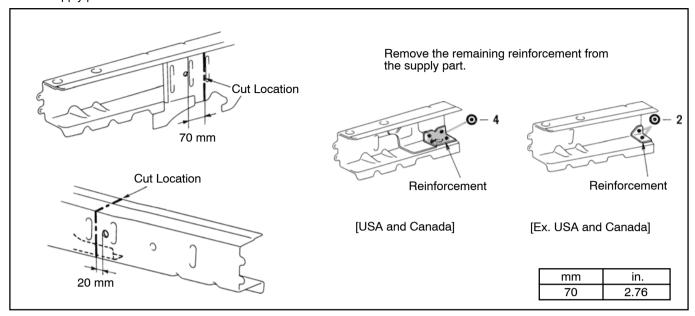
[Ex. USA and Canada]

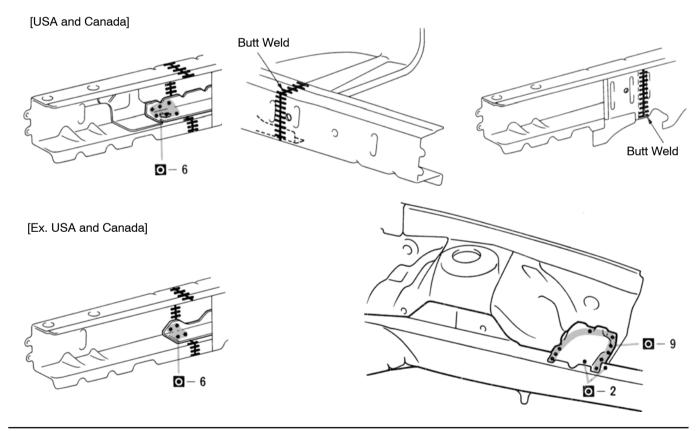
- 1. Before cutting the side member, remove the battery carrier support. (LH only)
- 2. Cut the front side member as shown above.

NOTE: Be careful not to damage the reinforcement when cutting the side member.

mm	in.	
15	0.59	
20	0.79	
60	2.36	

Cut for supply part





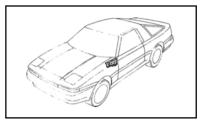
1. Cut the supply part shown above.

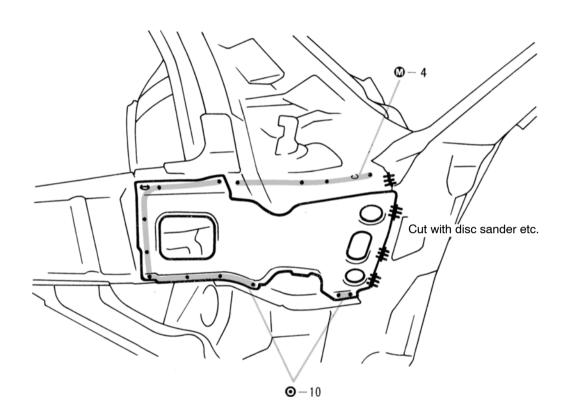
NOTE: Cut the front side member and the reinforcement at the same place.

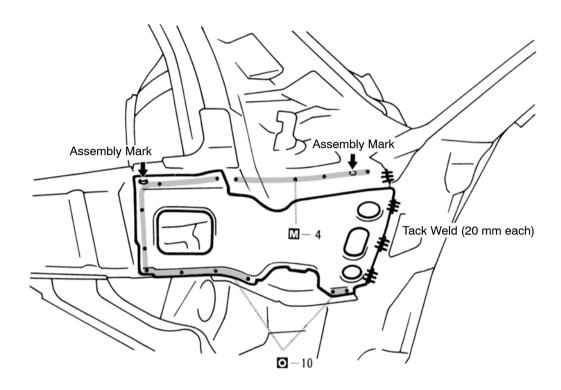
- 2. Remove the remaining reinforcement from the supply part.
- 3. Temporarily install the new member, measure each part in accordance with the body dimension diagram.
- After installing the new member, install the front side member plate. (See page RE-13)
- 5. After installing the new member, install the battery carrier support. (LH only)

COWL TOP SIDE PANEL (ASSY)

REMOVAL







mm	in.	
20	0.79	

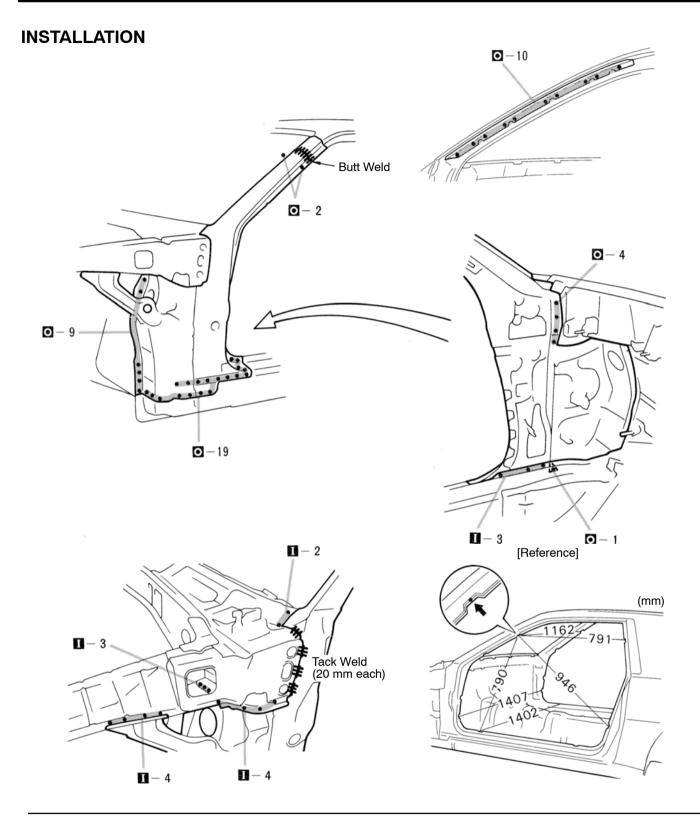
- Determine the installation position of the new part by the assembly mark.
- 2. Temporarily installing the new part and measure each part in accordance with the body dimension diagram.

FRONT BODY PILLAR (CUT) **REMOVAL** 150 mm or more [Cut and Join Location] Cut and Join Location **⊙**− 2 **⊙**−19 **⊙**− 4 0 - 3Cut With Disc Sander etc. 0 - 40 - 4 **⊙** − 1 0 **- 3**

1. Cut and join the front body pillar at the location shown above.

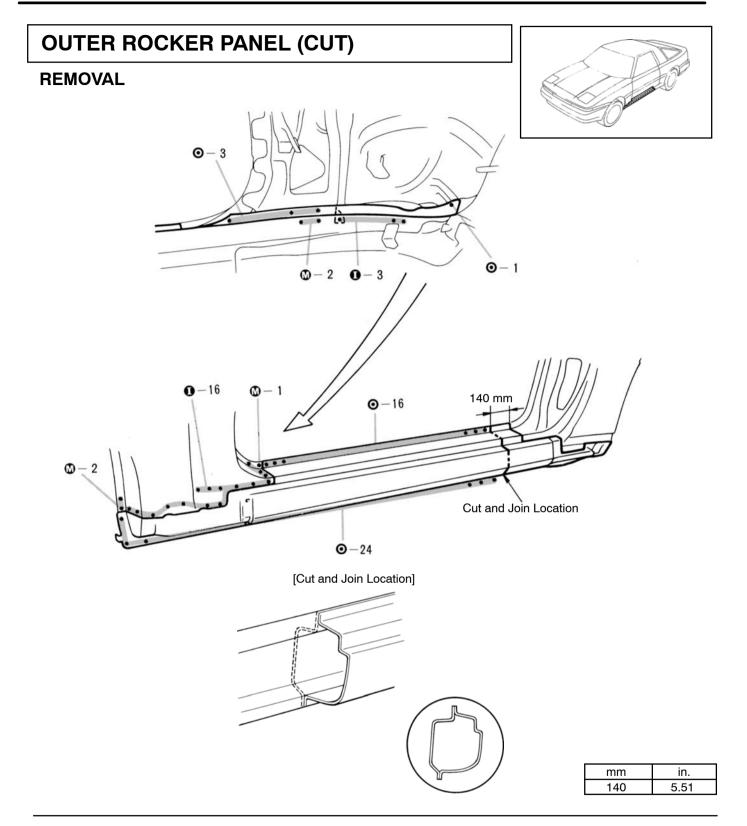
mm	in.	
150	5.91	

- 1) As shown above, cut and join the front body pillar outer and inner panels at a position shifted about 50 mm (1.97 in.).
- 2. Remove the remaining roof drip channel from body side.

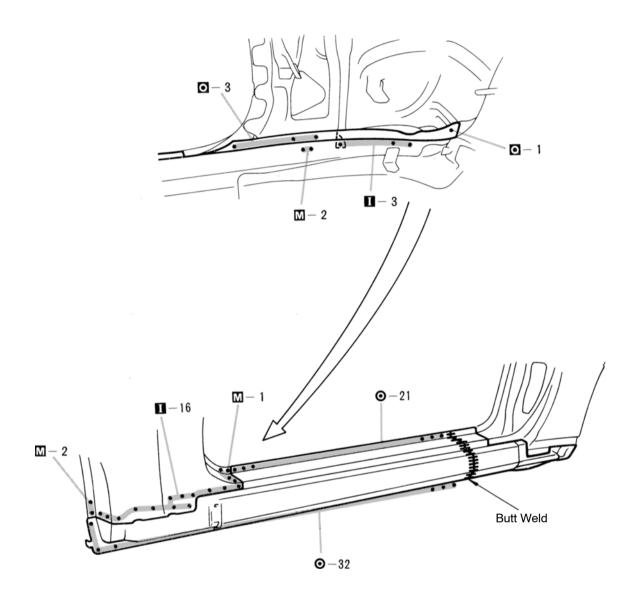


1. Temporarily install the new part and check the fit of the front door, front fender, hood and windshield glass.

mm	in.	
20	0.79	
790	31.10	
791	31.14	
946	37.24	
1,162	45.75	
1,402	55.20	
1,407	55.39	



1. Cut and join the outer panel at the area as show above.

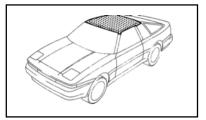


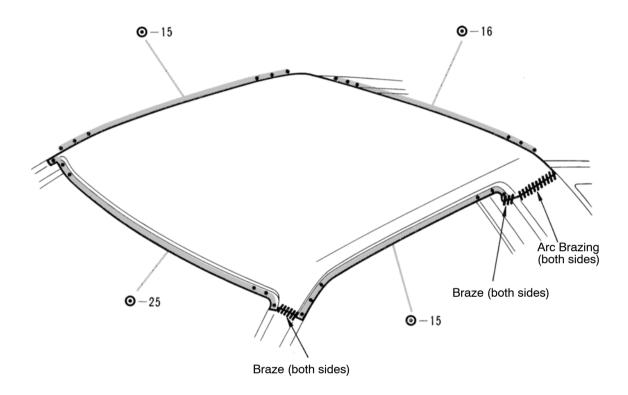
- 1. Temporarily install the new panel and check the fit for the front door and front fender.
- 2. There will be less warp if the cut edge (30 40 mm or 1.18 1.57 in.) is adhered to the matching part before welding.

NOTE: Scrape off the film on the cut edge and apply weld-through primer to adhere the matching part.

ROOF PANEL (ASSY)

REMOVAL

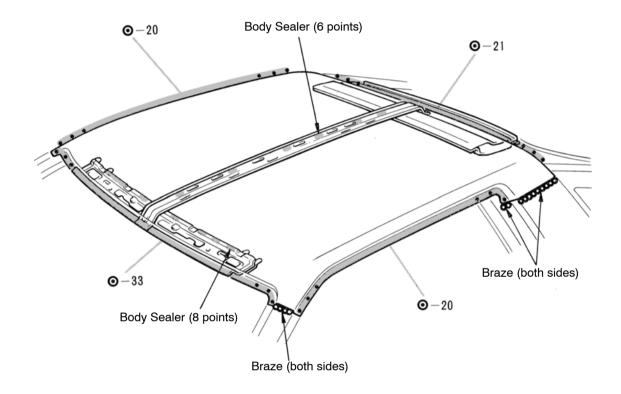




1. Heat the brazed area of the front pillar and scrape off the brazing with a wire brush.

NOTE: Be careful not to overheat the pillar.

2. Cut off the roof panel tip at the quarter panel are brazing connection with a cut grinder.



 Before temporarily installing the new part, apply body sealer to the windshield header panel, roof panel center reinforcement and back window opening frame.

NOTE:

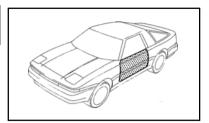
- 1) Apply just enough sealer for the new part to make contact.
- 2) For other sealing points, refer to section SU.

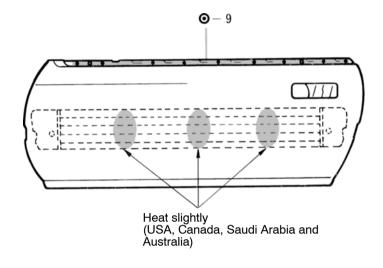
2. Braze the front body pillar connection.

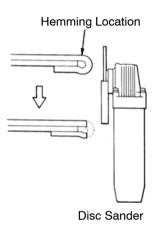
NOTE: Before performing these operations, place a wet rag on the roof panel to protect it from damage.

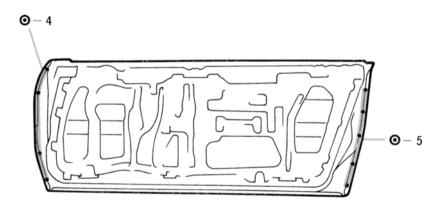
FRONT DOOR OUTER PANEL (ASSY)

REMOVAL

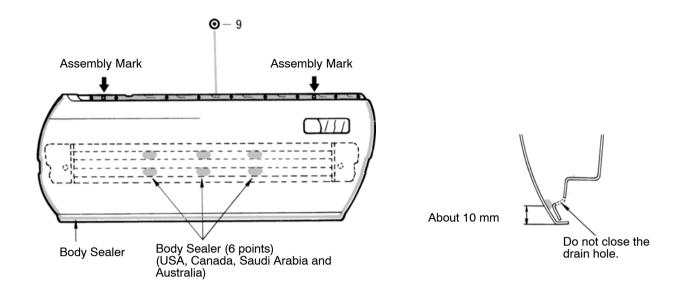


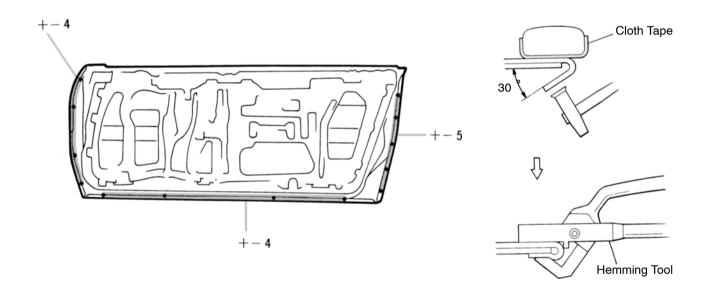






- 1. Grind out the hemming location, and remove the outer panel.
- 2. Slightly heating the outer panel will soften the sealer and make removal easier. (USA, Canada, Saudi Arabia and Australia).





mm	in.	
10	0.39	

1. Before temporarily installing the new part, coat the back side of the new panel with body sealer.

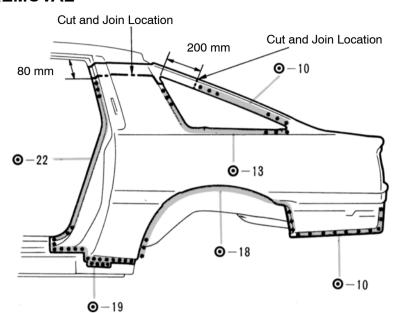
NOTE:

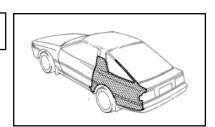
- 1) Coat evenly about 10 mm (0.39 in.) from the flange and 3 mm (0.12 in.) in diameter
- 2) For other sealing points, refer to section SU.
- 3) Determine the position for the new panel by the assembly marks.
- 3. Bend the flange hem approx. 30° with a hammer and dolly. Then use a hemming tool.

- 1) Perform hemming in three steps, being careful not to warp the panel.
- It a hemming tool cannot be used, hem with a hammer and dolly.

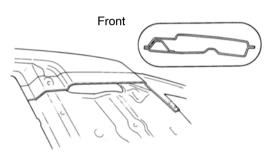
QUARTER PANEL (CUT)

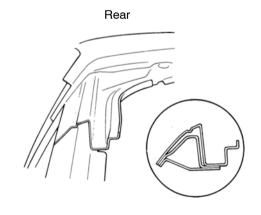
REMOVAL

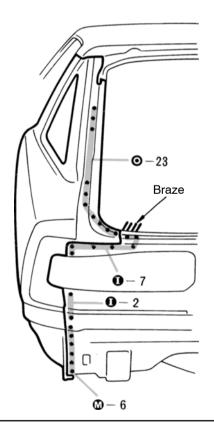






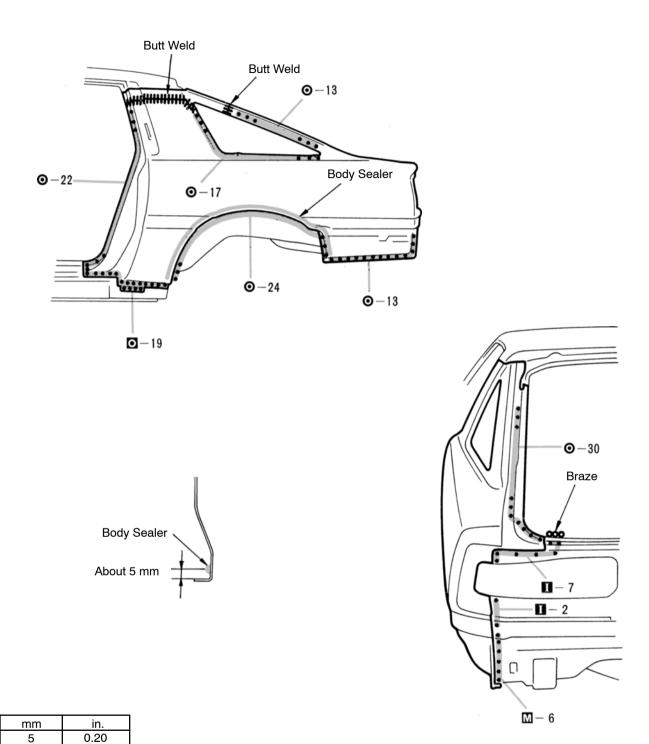






1. Cut and join the quarter panel as shown above.

mm	in.
87	3.43
200	7.87

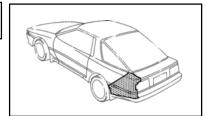


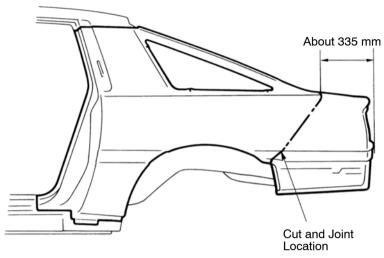
1.	Before temporarily installing the new part,
	apply body sealer to the wheel arch portion.

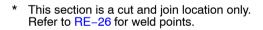
- 1) Apply sealer approx. 5 mm (0.20 in.) from the flange, avoiding any oozing.
- 2) Apply evenly, approx. 3 4 mm (0.12–0.16 in.) in diameter.
- 3) For other sealing points, refer to section SU.
- 2. Temporarily install the new part and check the fit of the front door, luggage compartment door and rear combination lamp.

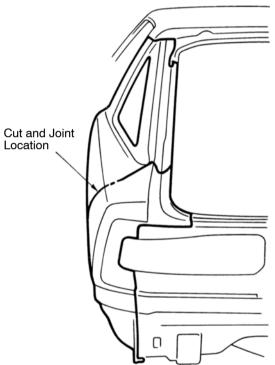
QUARTER PANEL (CUT-P)

REMOVAL

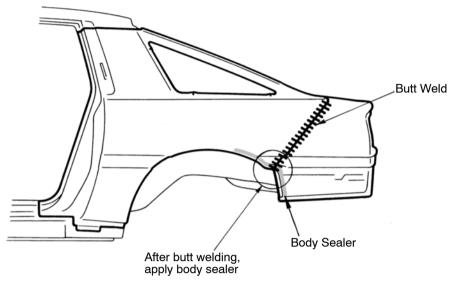


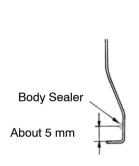




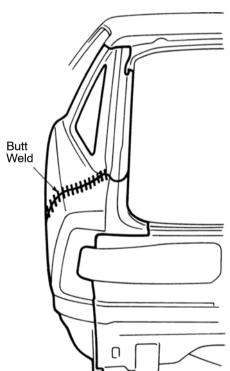


1. Cut on the line shown above.





* This section is a cut and join location only. Refer to RE-27 for weld points.



- 1. Before cutting the overlap areas, check the fit for the luggage compartment door and rear combination lamp.
- 2. Before welding, apply body sealer from inside of the vehicle.

NOTE:

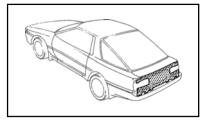
 Do not apply body sealer to the weld seams before welding as the sealer will melt, resulting in a bad seal and a bad weld.

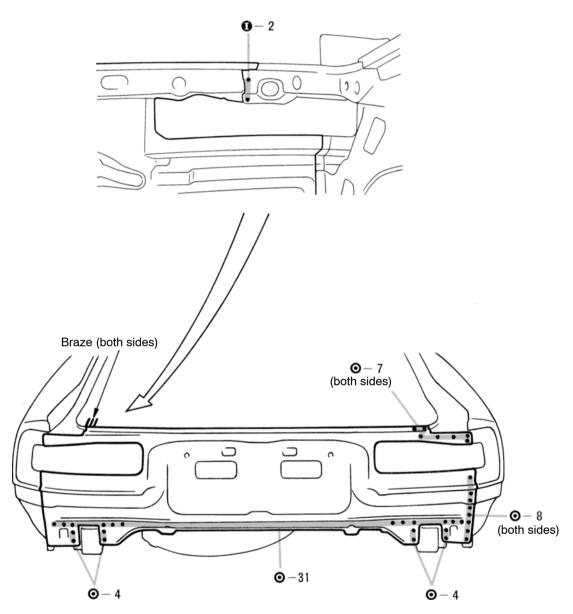
- 2) For other sealing points, refer to section SU.
- 3. Surface finish the weld seam from the inside also.

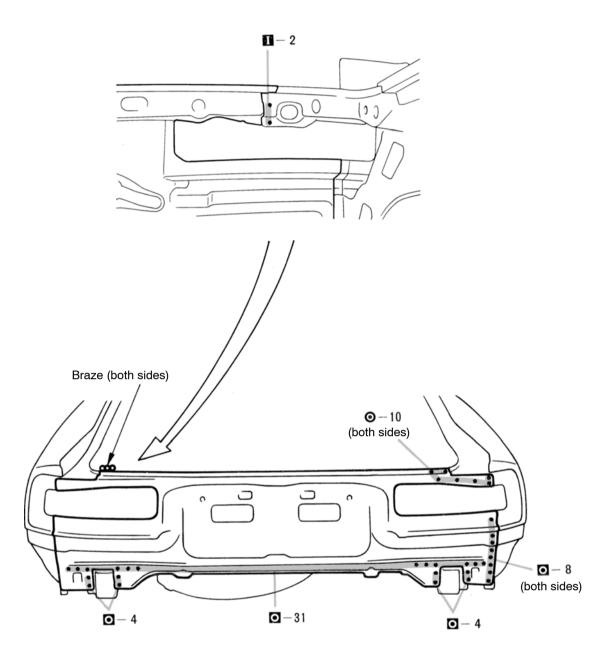
NOTE: Be careful not to grind off to much weld as it will result in loss of durability.

BODY LOWER BACK PANEL (ASSY)

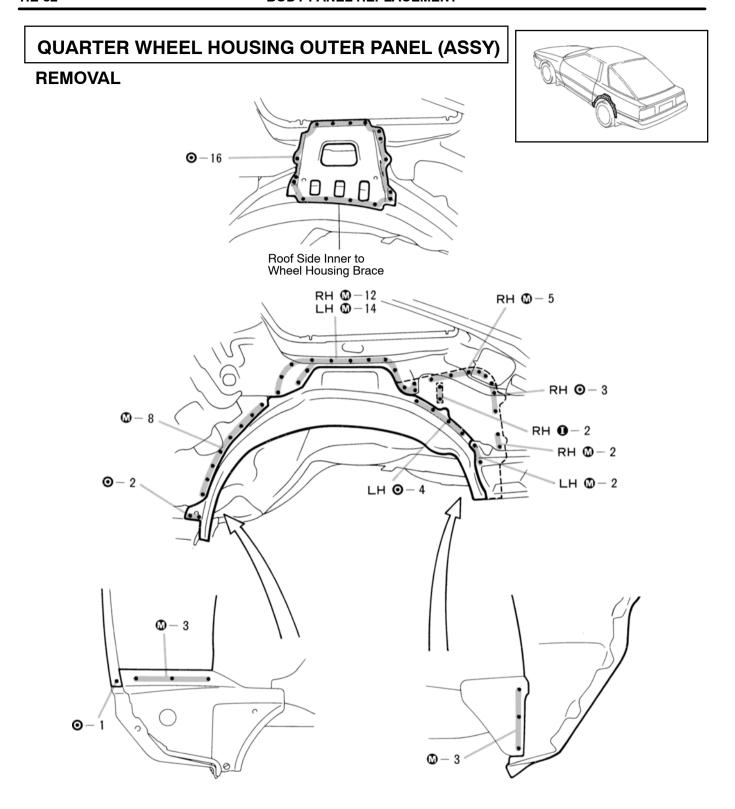
REMOVAL



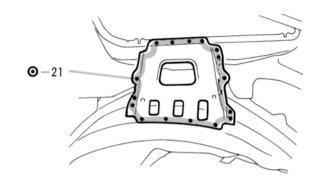


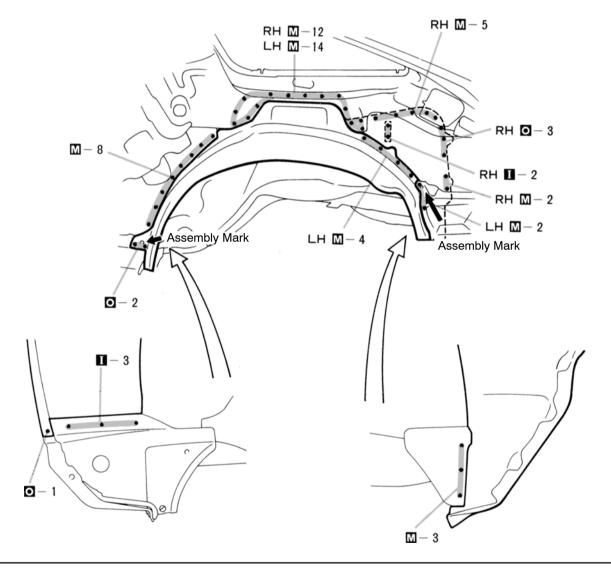


1. Temporarily install the new part and check the fit of the back door and rear combination lamp.



1. Before removing the quarter wheel housing outer panel, remove the roof side inner to wheel housing brace.

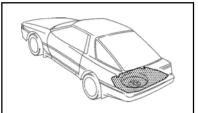


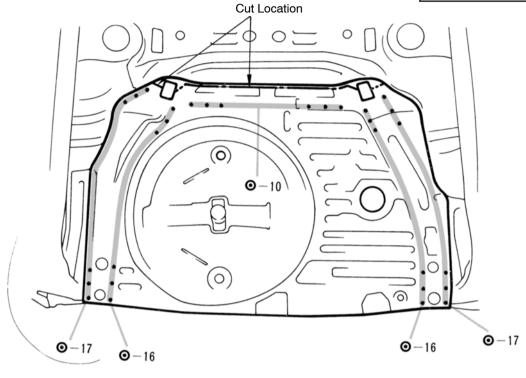


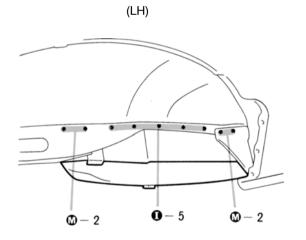
- 1. Determine the position of the new part by the assembly marks of the inner and outer panels.
- 2. Before welding the new part, temporarily install the quarter panel and check the fit.

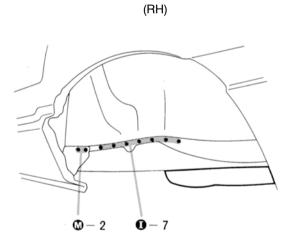
REAR FLOOR PAN (CUT)

REMOVAL

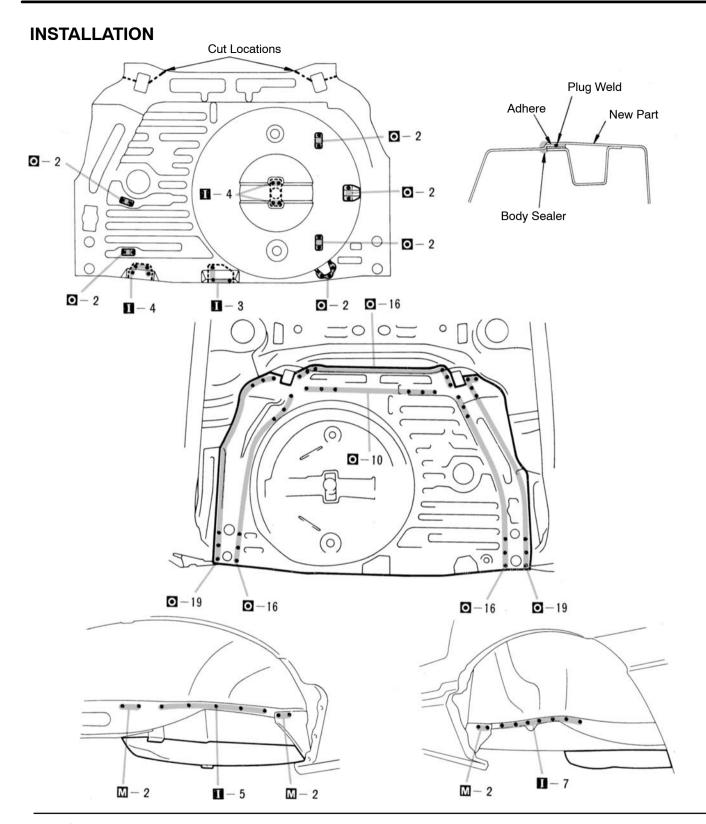








- 1. Cut and join the rear floor pan shown above.
- 2. Avoid the rear floor side member.
- 3. Since each bracket is supplied separated, remove the brackets if reusing.



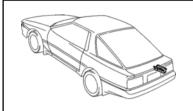
- 1. Cut the new panel shown above.
- 2. Match the bracket to the new part location (dent marks) and install.
- 3. After temporarily installing the new part, measure each part in accordance with the body dimension diagram.
- 4. Plug weld the overlapping portion of the new part.

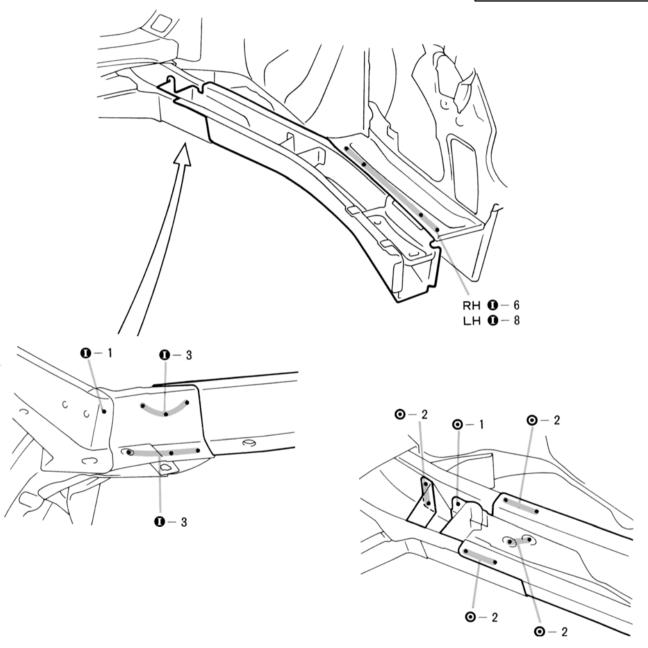
NOTE: Be sure the portion to be welded are align and not loose.

5. Coat the overlapping opening portion from the both sides with body sealer.

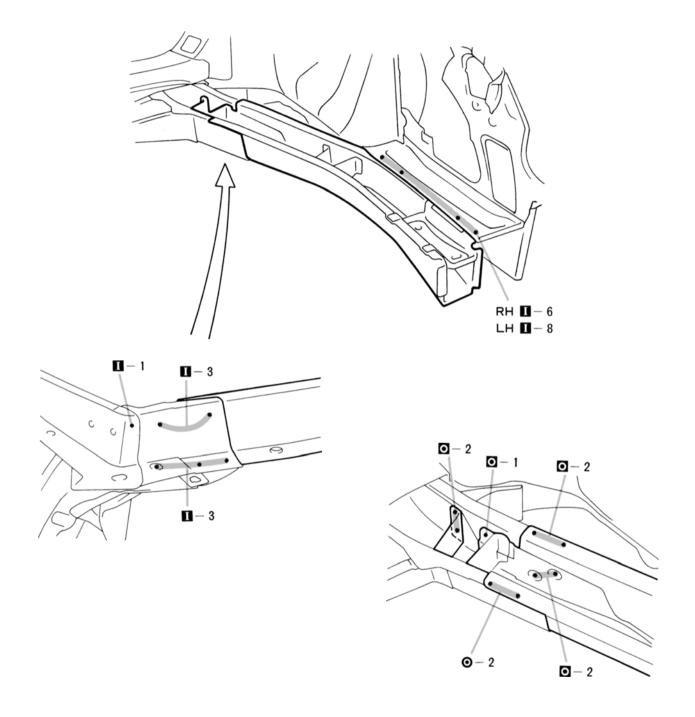
REAR FLOOR SIDE MEMBER (ASSY)

REMOVAL

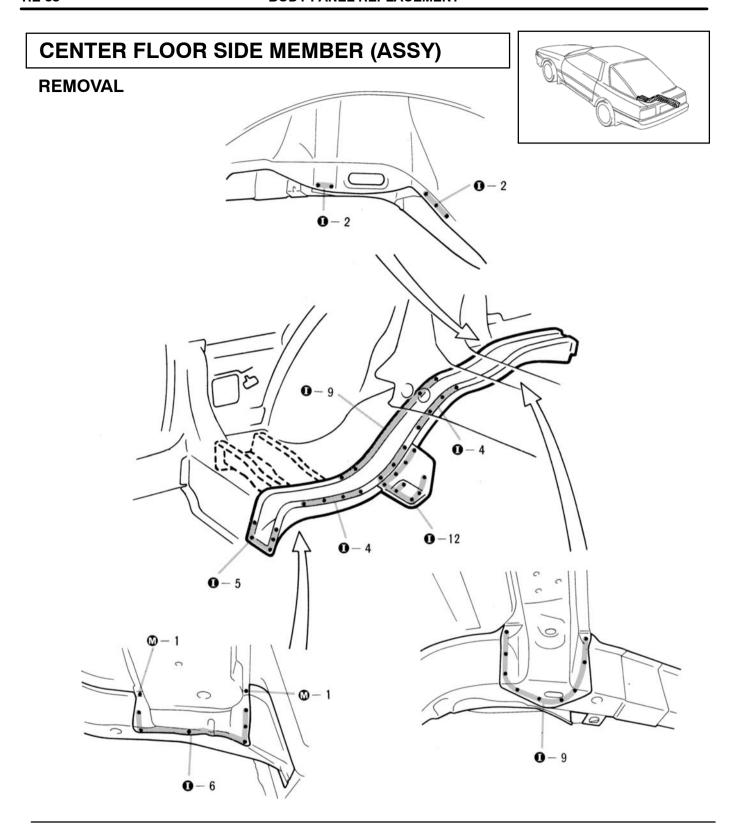


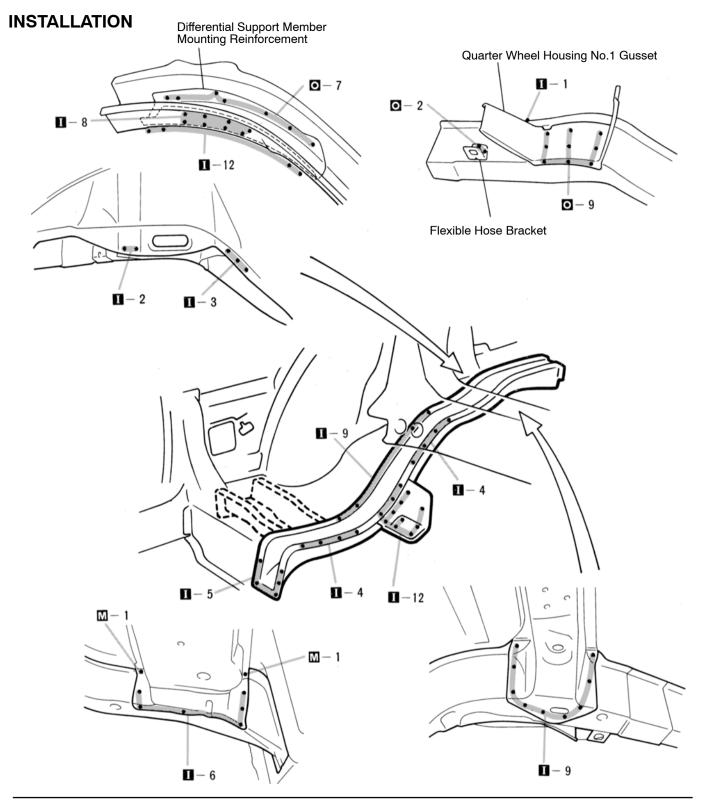


1. Before removing the rear floor side member, remove the rear floor pan.



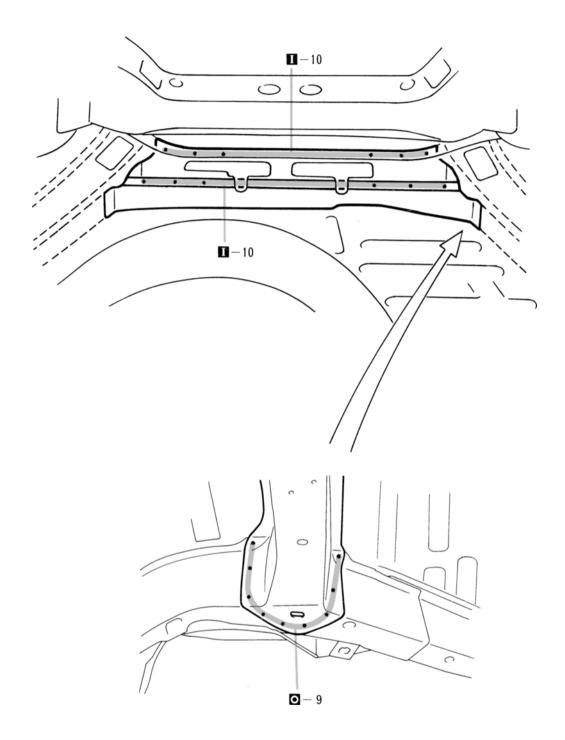
 Temporarily install the new part and measure each part in accordance with the body dimension diagram.



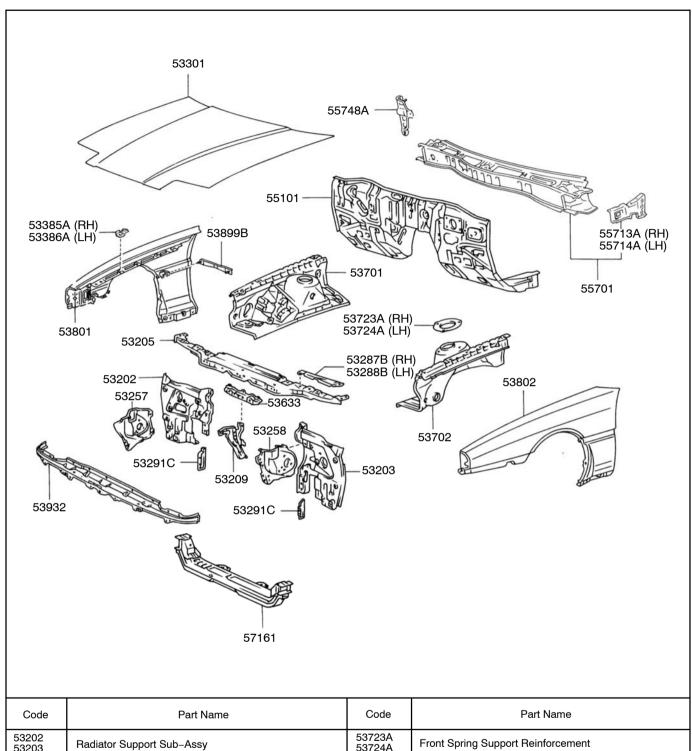


1. Temporarily install the new part and measure each part in accordance with the body dimension diagram.

CENTER FLOOR NO. 2 CROSSMEMBER (ASSY) REMOVAL \bullet -10 \bigcirc **1**0 − 10 \odot – 9

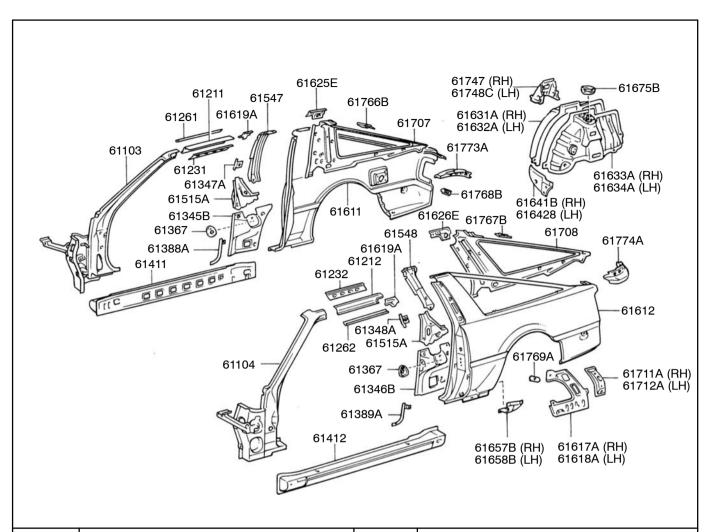


PL-2 PART LISTS



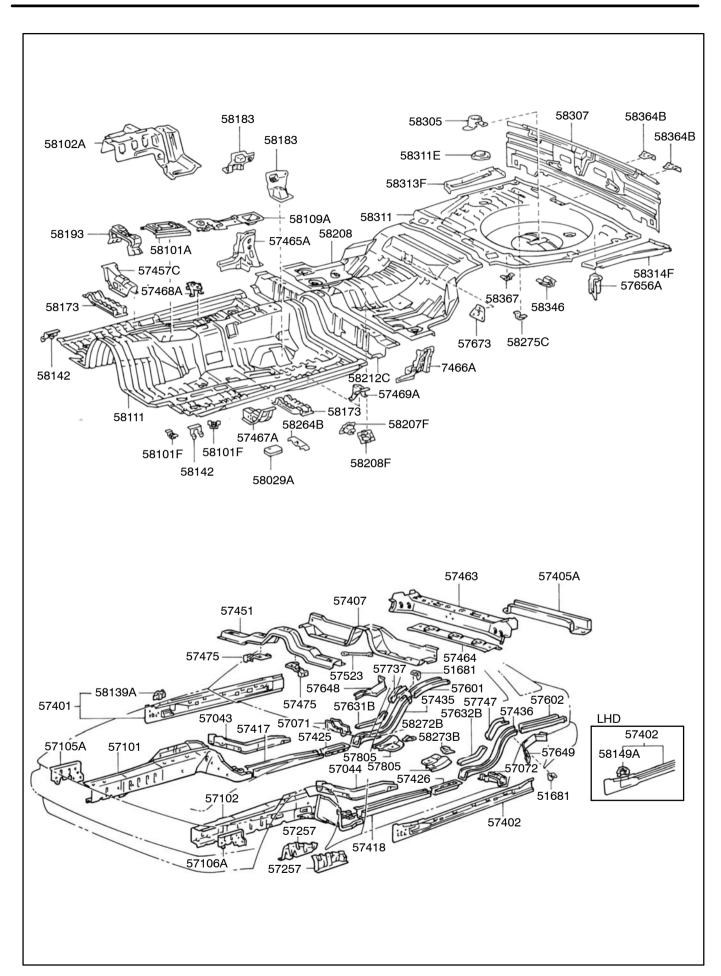
Code	Part Name	Code	Part Name	
53202 53203	Radiator Support Sub-Assy	53723A 53724A	Front Spring Support Reinforcement	
53205	Radiator Upper Support Sub-Assy	53801	Front Fender Sub-Assy	
53209	Hood Lock Brace Sub-Assy	53802	Front Fender Sub-Assy	
53257	53257 53258 Front End Panel Mounting Bracket 53		Front Fender Panel Support	
53258			Front End Panel Sub-Assy	
53287B			Dash Panel Sub-Assy	
53288B			Cowl Panel Sub-Assy	
53291C	Radiator Support to Frame Seal	55713A	Coul Top Side Band	
53301	Hood Sub-Assy	55714A	Cowl Top Side Panel	
53385A	53385A 53386A Hood Bumper Retainer		Cowl Top Inner to Pillar Brace	
53386A			Cowl Top Inner to Pillar Brace	
53633	Hood Lock Control Cable Shield	57161	Front Crossmember	
53701 53702	Front Fender Apron Sub-Assy	_	_	

PART LISTS PL-3



Code	Part Name	Code	Part Name	
61103	Front Body Pillar Sub-Assy	61619A	Quarter Panel Reinforcement	
61104 61107		61625E 61626E	Quarter Panel Inner Rear Extension	
61108	Front Body Outer Pillar Sub-Assy	61631A	Quarter Wheel Housing Outer Panel	
61211 61212	Roof Side Outer Rail	61632A 61633A	<u> </u>	
61231	Doof Cide Janear Doil	61634A	Quarter Wheel Housing Inner Panel	
61232	Roof Side Inner Rail	61641B	Quarter Wheel Housing Gusset	
61261 61262	Roof Drip Channel	61642B 61657B	Table 1111001110001119	
61345B	1.000 2.10 0.100.110		Quarter Panel End Lower Housing	
61346B	Center Body Inner Lower Pillar		Rear Suspension Spring Support Reinforcement	
61347A				
61348A	Beit Arichor to Center Pillar Reinforcement	61707	Quarter Inner Panel Sub-Assy	
61367	Belt Anchor to Center Pillar Lower Reinforcement	61708 61711A	·	
61388A	Center Body Pillar End Plate	61712A	Roof Side Outer Reinforcement	
61389A	Center Body Final End Flate	61747 61748C	Roof Side Inner to Wheel Housing Brace	
61411 61412	Rocker Outer Panel	61766B	,	
61515A	Quarter Lock Pillar Extension	61767B	Roof Side Inner to Wheel Housing Brace Reinforcement	
61547 61548	Quarter Pillar Inner Reinforcement	61768B	Belt Anchor to Roof Side Inner Rear Reinforcement	
61611			Seat Belt Anchor No. 2 Reinforcement	
61612	Quarter Panel	61773A 61774A	Back Door Opening Lower Patch	
61617A 61618A	Quarter Inner Rear Panel	—	-	

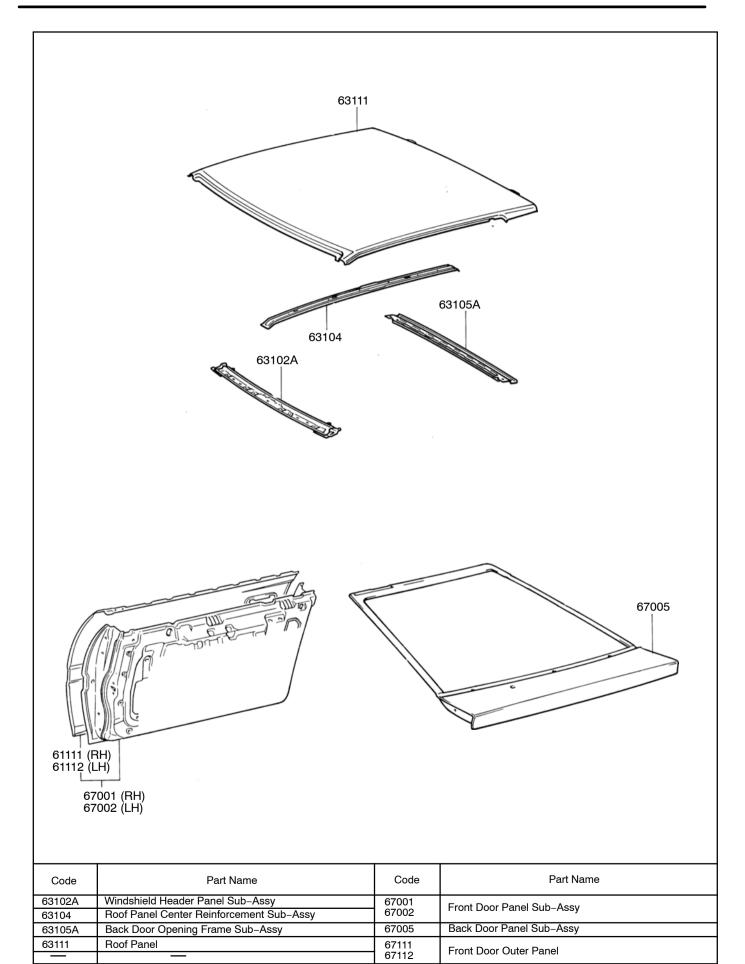
PL-4 PART LISTS



PART LISTS PL-5

Code	Part Name	Code	Part Name	
51681	Flexible Hose Bracket 57656A		Exhaust Pipe Mounting No. 1 Bracket	
57043	Front Side Member Rear Reinforcement	57673	Rear Seat Back Hinge Mounting Bracket	
57044 57071		57737 57747	Differential Support Member Mounting Reinforcement	
57072	Torque Rod Rear Box Sub-Assy	57805	Belt Anchor Reinforcement Sub-Assy	
57101		58029A	Parking Brake Cable No. 1 Clamp	
57102	Front Side Member Sub-Assy	58101A	Transmission Auxiliary Cover	
57105A	5 O M D O A	58101F	Mounting Floor No. 1 Bracket	
57106A	Front Side Member Plate Sub-Assy.	58102A	Front Floor Reinforcement Sub-Assy	
57257	Engine Rear Support Member Bracket	58109A	Parking Brake Retainer Sub-Assy	
57401		58111	Front Floor Pan	
57402	Main Floor Side Member Sub-Assy	58139A	Front Floor Cido Door Diet	
57405A	Center Floor No. 2 Crossmember Sub-Assy	58149A	Front Floor Side Rear Plate	
57407	Center Floor No. 1 Crossmember Sub-Assy	50440	Floor Side Member to Floor Pan	
57417	Front Floor Under Reinforcement	58142	Reinforcement	
57418	Front Floor Onder Reinforcement	58173	Front Floor Stone Deflector	
57425	Front Floor No. 2 Reinforcement	58183	Front Seat Mounting Inside Bracket	
57426		58193	Instrument Panel Brace Mounting Bracket	
57435 57436	Center Floor Side Member	58207F 58208F	Parking Brake Cable Clamp Sub-Assy	
57451	Front Floor Crossmember	58208	Center Floor Pan	
57457C	Front Outside Mounting Front Bracket	58212C	Center Floor Front Pan	
57463	Center Floor No. 3 Crossmember	58264B	Parking Bake Cable Guide No. 1 Bracket	
57464	Center Floor Crossmember Strength	58272B	Belt Anchor to Floor Pan No. 4 Reinforcement	
57465A	Contac Floor Consensation Boar Consent	58273B	Belt Anchor to Floor Pan No. 5 Reinforcement	
57466A	Center Floor Crossmember Rear Gusset	58275C	Wire Harness Protector Bracket	
57467A	Front Seat Outside Mounting Front Bracket	58305	Spare Wheel Clam Bracket Sub-Assy	
57468A	Front Seat Outside Rear Bracket	58307	Body Lower Back Panel Sub-Assy	
57469A	Front Seat Outside Hear Bracket	58311E	Rear Floor Service Hole Cover	
57475	Front Floor Crossmember Plate	58311	Rear Floor Pan	
57523	Center Floor Crossmember Brace	58313F	Bass Flass Bass In O. and a Bass I F. Incaria	
57601 57602	Rear Floor Side Member Sub-Assy	58314F 58364	Rear Floor Pan to Quarter Panel Extension Rear Floor Heat Insulator Bracket	
57631B		58364B	Fuel Tank Support Bracket	
57632B	Rear Floor Side Member Front Reinforcement	58367	Fuel Tube Clamp Bracket	
57648 57649	Quarter Wheel Housing No. 1 Gusset	_	— —	

PL-6 PART LISTS



HANDLING PRECAUTIONS

- 1. The repair procedure for plastic body parts must conform with the type of plastic material.
- 2. Plastic body parts are identified by the codes in the following chart.
- 3. When repairing metal body parts adjoining plastic body parts (by brazing, frame cutting, welding, painting, etc.), consideration must given to the property of the plastic.

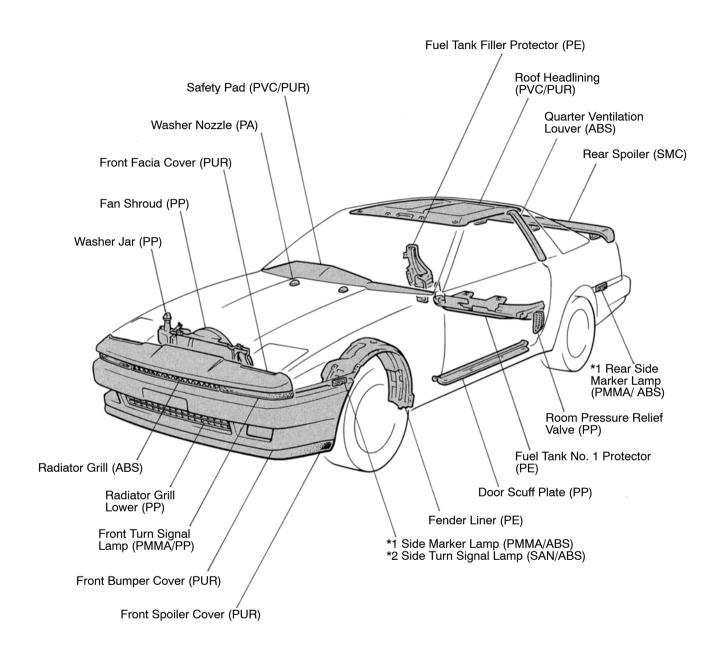
Code	Material Name	Heat * Resisting Temperature C (°F)	Resistance To Alcohol or Gasoline	Notes
AAS	Acrylonitrile Acrylic Rubber Styrene Resin	80 (176)	Alcohol is harmless if applied only for short time in small amounts (ex., quick wiping to remove grease).	Avoid gasoline and organic or aromatic solvents.
ABS	Acrylonitrile Butadiene Styrene Resin	80 (176)	Alcohol is harmless if applied only for short time in small amounts (ex., quick wiping to remove grease).	Avoid gasoline and organic or aromatic solvents.
AES	Acrylonitrile Ethylene Rubber Styrene Resin	80 (176)	Alcohol is harmless if applied only for short time in small amounts (ex., quick wiping to remove grease).	Avoid gasoline and organic or aromatic solvents.
EPDM	Ethylene Propylene Rubber	100 (212)	Alcohol is harmless. Gasoline is harmless if applied only for short time in small amounts.	Most solvents are harm- less but avoid dipping in gasoline, solvents, etc.
PA	Polyamide (Nylon)	80 (176)	Alcohol and gasoline are harmless.	Avoid battery acid.
PC	Poiycarbonate	120 (248)	Alcohol is harmless.	Avoid gasoline, brake fluid, wax, wax removers and organic solvents.
PE	Polyethylene	80 (176)	Alcohol and gasoline are harmless.	Most solvents are harmless.
POM	Polyoxymethylene (Polyacetal)	100 (212)	Alcohol and gasoline are harmless.	Most solvents are harmless.

^{*} Temperature higher than those listed here may result in material deformation during repair.

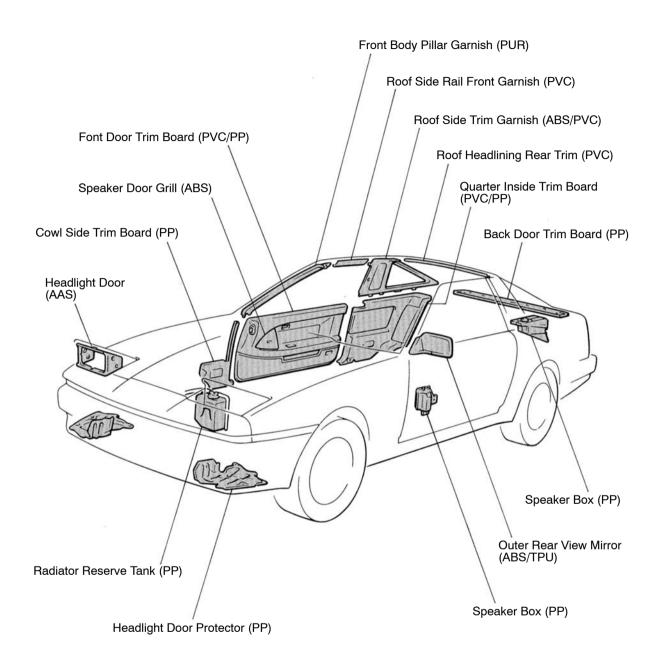
Code	Material Name	Heat * Resisting Temperature C (F)	Resistance To Alcohol or Gasoline	Notes
PP	Polypropylene	80 (176)	Alcohol and gasoline are harmless.	Most solvents are harmless.
PPO	Modified Polyphenylene Oxide	100 (212)	Alcohol is harmless.	Gasoline is harmless if applied only for quick wiping to remove grease.
PS	Polystyrene	60 (140)	Alcohol and gasoline are harm- less if applied only for short time in small amounts.	Avoid dipping or immersing in alcohol, gasoline, solvents, etc.
PUR	Thermosetting Polyurethane	80 (176)	Alcohol is harmless if applied only for very short time in small amounts (ex., quick wiping to remove grease).	Avoid dipping or immersing in alcohol, gasoline, solvents, etc.
PVC	Polyvinylchloride (Vinyl)	80 (176)	Alcohol and gasoline are harmless if applied only for short time in small amounts (ex., quick wiping to remove grease).	Avoid dipping or immersing in alcohol, gasoline, solvents, etc.
РММА	Polymethyl Methacrylate	80 (176)	Alcohol is harmless if applied only for short time in small amounts.	Avoid dipping or immersing in alcohol, gasoline, solvents, etc.
SAN	Styrene Acrylonitrile Resin	80 (176)	Alcohol is harmless if applied only for short time in small amounts (ex., quick wiping to remove grease).	Avoid dipping or immersing in alcohol, gasoline, solvents, etc.
SMC	Sheet Molding Compound	180 (356)	Alcohol and gasoline are harmless.	Avoid alkali
TPO	Thermoplastic Olefine	80 (176)	Alcohol is harmless. Gasoline is harmless if applied only for short time in small amounts.	Most solvents are harm- less but avoid dipping in gasoline, solvents, etc.
TPU	Thermoplastic Polyurethane	80 (176)	Alcohol is harmless if applied only for very short time in small amounts (ex., quick wiping to remove grease).	Avoid dipping or immersing in alcohol, gasoline, solvents, etc.

^{*} Temperature higher than those listed here may result in material deformation during repair.

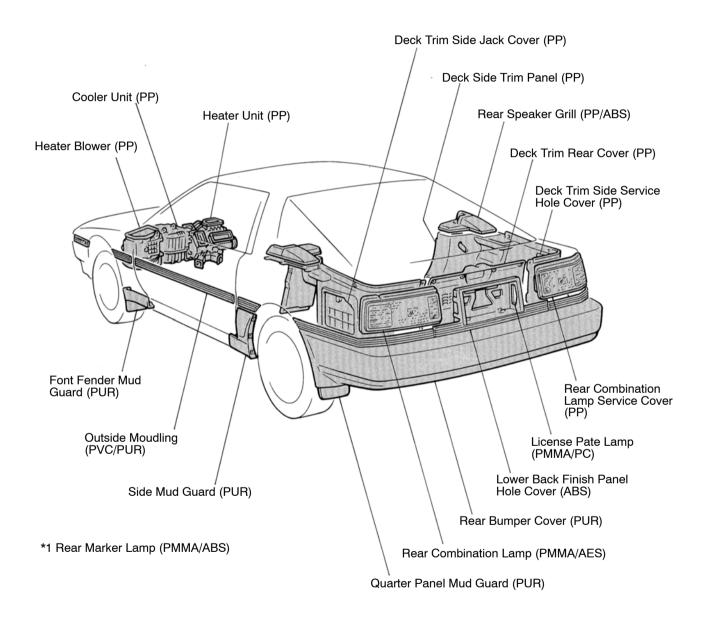
LOCATION OF PLASTIC BODY PARTS



- Resin material differs with model.
- / Made up of 2 or more kinds of materials.
- *1 USA and Canada
- *2 Except USA and Canada



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- / Made up of 2 or more kinds of materials.
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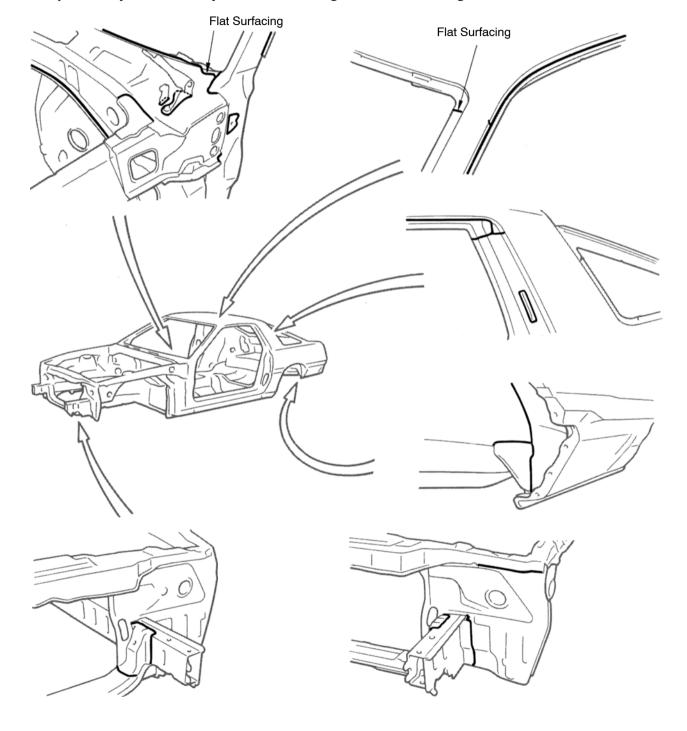


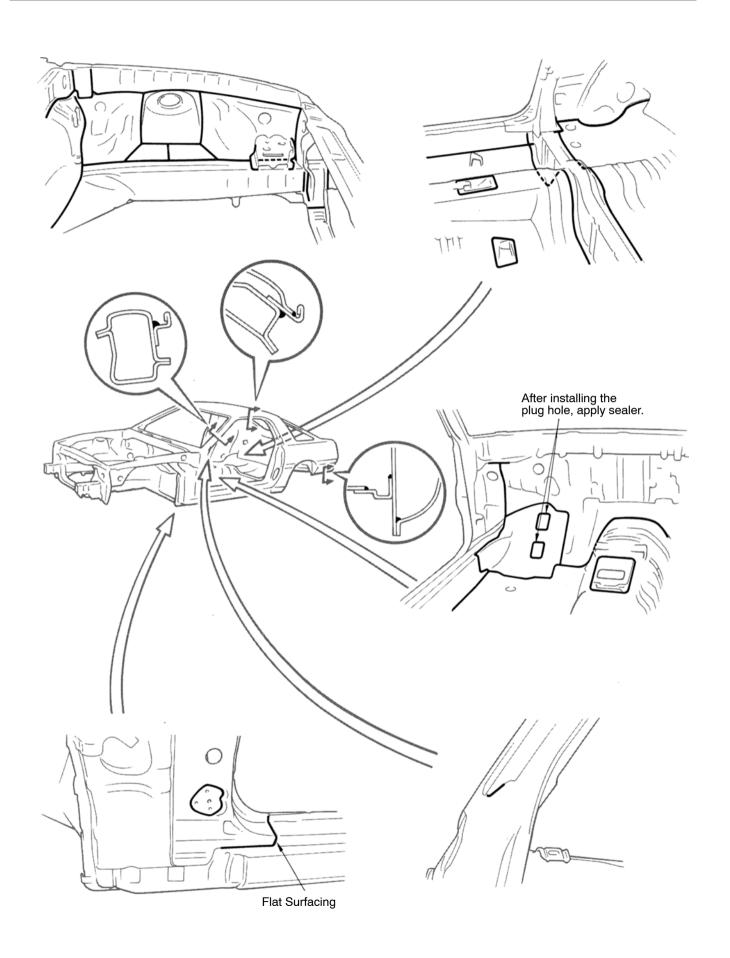
- Resin material differs with model.
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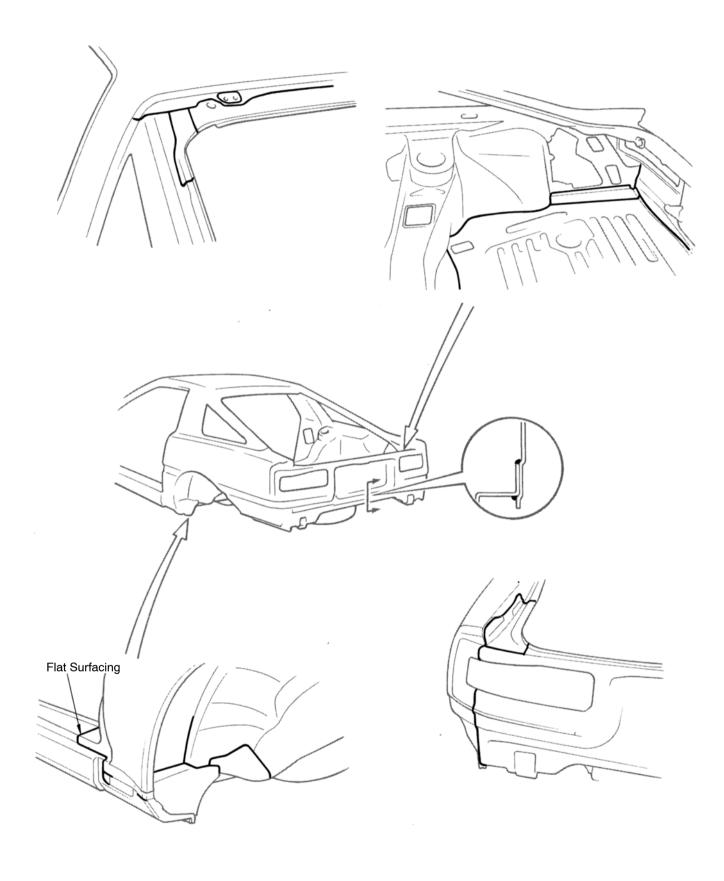
BODY PANEL SEALING AREAS

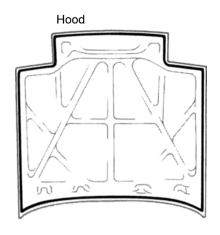
For water-proofing and anti-corrosion measures, always apply body sealer to the body panel seams and hems of the doors, hood, etc.

- 1. Prior to applying body sealer, clean the area with a rag soaked in white gasoline.
- 2. If weld-through primer was used, first wipe off any excess with thinner, and coat with anticorrosion primer before applying body sealer.
- 3. Wipe off any excess body sealer with a rag soaked in white gasoline.

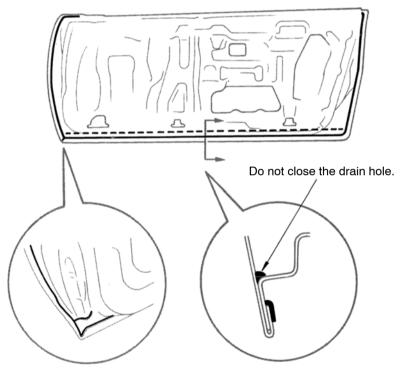






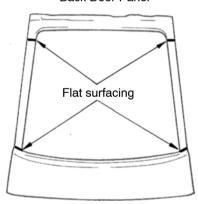


Front Door Panel





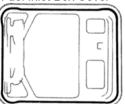
Back Door Panel



Fuel Inlet Box



Fuel Inlet Box Cover

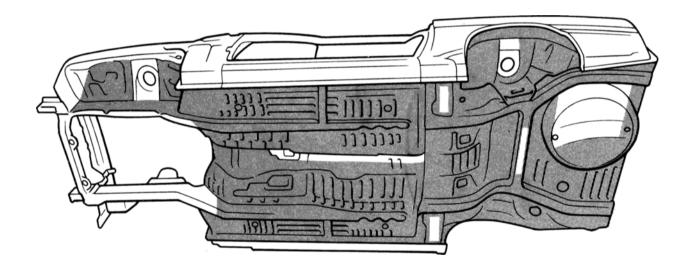


BODY PANEL UNDERCOATING AREAS

To prevent corrosion and protect the body from damage by flying stones, always apply undercoating to the welded seams and wheel housings after chassis, under body or panel repair.

NOTE:

- 1. First wipe off any dirt, grease or oil with white gasoline.
- 2. Cover the surrounding areas with masking paper to avoid coating unnecessary areas. If other areas are accidently coated, wipe off the coating immediately.
- 3. Do not coat parts which become hot, such as the tail pipe, or moving parts, such as the propeller shaft.
- 4. Besides the locations described below, apply undercoating to all weld points under the body to insure corrosion prevention.
- 5. Be sure to seal the edge of the flange of the member and bracket with undercoating.



REFERENCE: Referring to the notes above, undercoating should be applied according to the specifications for your country.