# Mazda6 Bodyshop Manual

## **FOREWORD**

This bodyshop manual is intended for use by technicians of Authorized Mazda Dealers to help them service and repair Mazda vehicles. It can also be useful to owners and operators of Mazda vehicles in performing limited repair and maintenance on Mazda vehicles.

For proper repair and maintenance, a thorough familiarization with this manual is important, and it should always be kept in a handy place for quick and easy reference.

All the contents of this manual, including drawings and specifications, are the latest available at the time of printing. As modifications affecting repair or miantenance occur, relevant information supplementary to this volume will be made available at Mazda dealers. This manual should be kept up-to-date.

Mazda Motor Corporation reserves the right to alter the specifications and contents of this manual without obligation or advance notice.

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Mazda Motor Corporation HIROSHIMA, JAPAN

## **APPLICATION:**

This manual is applicable to vehicles beginning with the Vehicle Identification Numbers (VIN) shown on the following page.

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## **WARNING**

Servicing a vehicle can be dangerous. If you have not received service-related training, the risks of injury, property damage, and failure of servicing increase. The recommended servicing procedures for the vehicle in this workshop manual were developed with Mazda-trained technicians in mind. This manual may be useful to non-Mazda trained technicians, but a technician with our service-related training and experience will be at less risk when performing service operations. However, all users of this manual are expected to at least know general safety procedures.

This manual contains "Warnings" and "Cautions" applicable to risks not normally encountered in a general technician's experience. They should be followed to reduce the risk of injury and the risk that improper service or repair may damage the vehicle or render it unsafe. It is also important to understand that the "Warnings" and "Cautions" are not exhaustive. It is impossible to warn of all the hazardous consequences that might result from failure to follow the procedures.

The procedures recommended and described in this manual are effective methods of performing service and repair. Some require tools specifically designed for a specific purpose. Persons using procedures and tools which are not recommended by Mazda Motor Corporation must satisfy themselves thoroughly that neither personal safety nor safety of the vehicle will be jeopardized.

The contents of this manual, including drawings and specifications, are the latest available at the time of printing, and Mazda Motor Corporation reserves the right to change the vehicle designs and alter the contents of this manual without notice and without incurring obligation.

Parts should be replaced with genuine Mazda replacement parts or with parts which match the quality of genuine Mazda replacement parts. Persons using replacement parts of lesser quality than that of genuine Mazda replacement parts must satisfy themselves thoroughly that neither personal safety nor safety of the vehicle will be jeopardized.

Mazda Motor Corporation is not responsible for any problems which may arise from the use of this manual. The cause of such problems includes but is not limited to insufficient service-related training, use of improper tools, use of replacement parts of lesser quality than that of genuine Mazda replacement parts, or not being aware of any revision of this manual.

# **VEHICLE IDENTIFICATION NUMBERS (VIN)**

Europe	ean (L.H.D.) s	pecs.				
JMŻ	GG1232*#	100001—	JN	ΙZ	GG1432*#	100001—
JMZ	GG1282*#	100001—	JN	ΙZ	GG1482*#	100001—
JMZ	GG12F2*#	100001—	JN	ΙZ	GG14F2*#	100001—
JMZ	GG12F5*#	100001—	JN	ΙZ	GG14F5*#	100001—
U.K. sp	oecs.					
JMZ	GG12820#	100001—	JN	ΙZ	GG14820#	100001—
JMZ	GG12F20#	100001—	JN	ΙZ	GG14F20#	100001—
JMZ	GG12F50#	100001—	JN	ΙZ	GG14F50#	100001—
JMZ	GG14320#	100001—				
GCC s	nace					
JM7		100001	18/	17	CC24E**#	100001
•	GG32F**#		JN		GG34F**#	
JM7	GG42F**#	100001—	JN	17	GG44F**#	100001—

# **GENERAL INFORMATION**

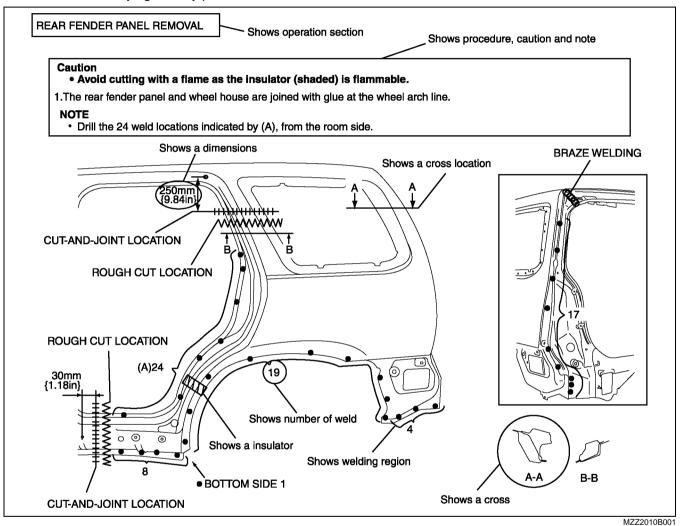
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## **HOW TO USE THIS MANUAL**

### HOW TO READ EFFICIENT REPLACEMENT OF BODY PANELS

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- This section contains information on the body panels in regard to the welding types, number of spot welds, and cut-and-join locations that are necessary for panel removal and installation.
- The type of weld and positions and indicated by symbol.
- Some sections have notes concerning the operation being performed, thoroughly read and understand the notes before carrying out any procedures.



## **Symbols of Panel Replacement**

• The following 6 symbols are used to indicate the type of weld that is used when replacing body panels.

SYMBOL	MEANING	SYMBOL	MEANING
	Spot welding		Continuous MIG welding (Cut-and-join location)
	CO <sup>2</sup> arc welding (plug welding)	$\infty$	Braze welding
+	CO <sup>2</sup> spot welding	<b>^</b>	Rough cut location

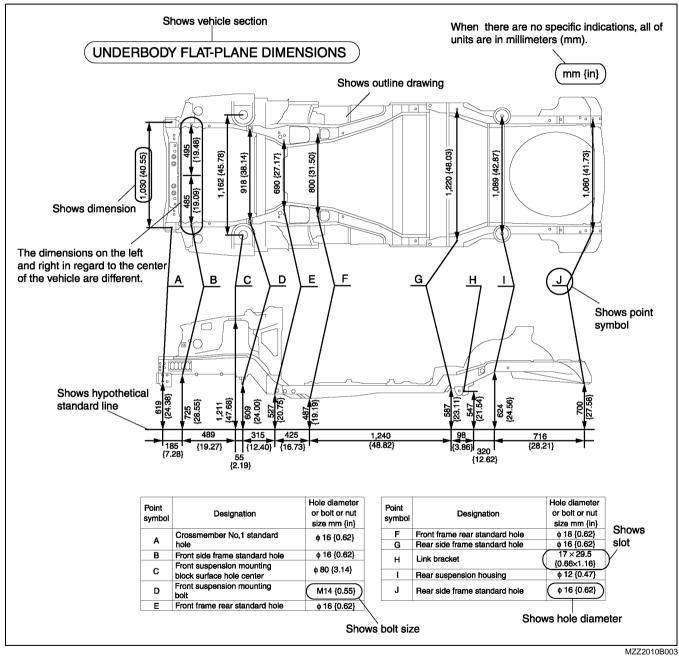
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### HOW TO READ BODY DIMINSIONS

## **Body Dimensions (Flat-plane Dimensions)**

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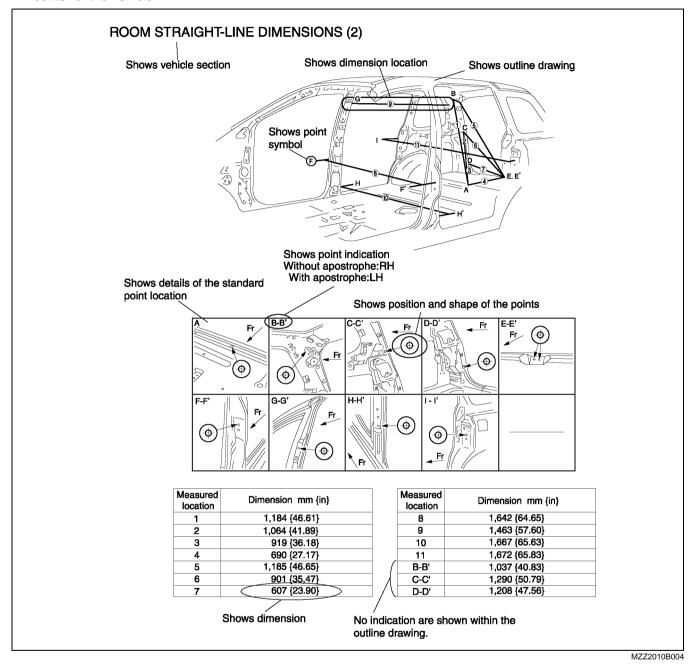
- Flat-plane dimensions are the dimensions measured by projecting certain reference points onto a plane surface.
- When there are no specific indications, the standard points and dimensions are symmetrical in regard to the center of the vehicle.
- The hypothetical lines may differ according to the vehicle model.
- The outline drawing shows the figure that projected vehicle from the upper side.



## **HOW TO USE THIS MANUAL**

## **Body Dimensions (Straight-line Dimensions)**

- Straight-line dimensions are the actual dimensions between two standard points.
- When there are no specific indications, the standard points and dimensions are symmetrical in regard to the center of the vehicle.



## **Symbols of Body Dimensions**

• The following 8 symbols are used to indicate the standard points.

S	YMBOL	MEANING
	$\bigoplus$	Center of circular hole
	<del>(</del>	Center elliptical hole
	$\bigcirc$	Edge of hole
	<b>(</b> 3)	Notch

SYMBOL	MEANING
•	Panel seam, bead, etc.
(arrow only)	Bolt tip
$\oplus$	Center of rectangular-shaped hole
	Edge of rectangular-shaped hole

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## **SERVICE PRECAUTIONS**

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## **Arrangement of Workshop**

• Arrangement of the workshop is important for safe and efficient work.

## **Safety Precautions**

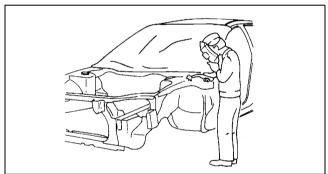
 Protective head covering and safety shoes should always be worn. Depending upon the nature of the work, gloves, safety glasses, ear protectors, face shield, etc., should also be used.



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## **Vehicle Protection**

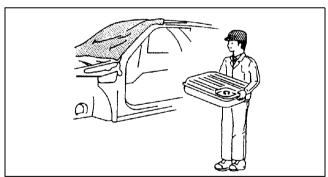
- · Use seat covers and floor covers.
- Use heat-resistant protective covers to protect glass areas and seats from heat or sparks during welding.
- Protect items such as moldings, garnishes, and ornaments with tape when welding.



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## **Remove Dangerous Articles**

 Remove the fuel tank before using an open flame in that area. Plug connection piping to prevent fuel leakage.

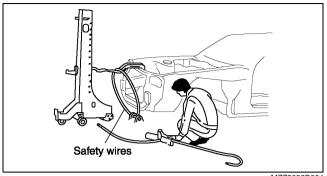


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## **SERVICE PRECAUTIONS**

## **Use of Pulling Equipment**

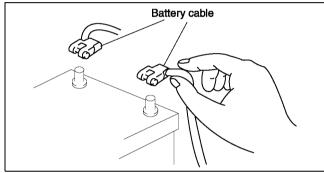
 When using pulling equipment, keep away from the pulling area and use safety wires to prevent accidents.



### MZZ2036B004

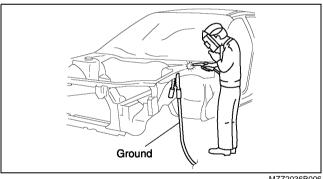
## **Prevent Short Circuits**

- Turn the ignition switch to the LOCK position.Disconnect the buttery cables.



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• Securely connect the welding machine ground near the welding area.

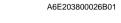


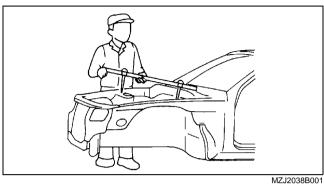
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## **EFFICIENT REMOVAL OF BODY PANELS**

## **Body Measurements**

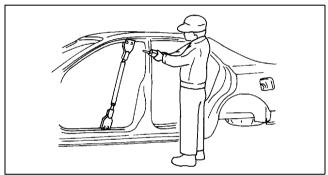
 Before removal or rough-cutting, first measure the body at and around the damaged area against the standard reference dimension specifications. If there is deformation, use frame repair equipment to make a rough correction.





## **Prevention of Body Deformation**

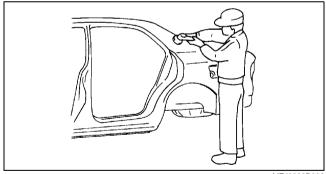
 Use a clamp or a jack for removal and reinforce at and around the rough-cutting location to prevent deforming of the body.



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## **Selection of Cut-and-join Locations**

 For parts where complete replacement is not feasible, careful cutting and joining operations should be followed. If the location to be cut is a flat area where there is no reinforcement, the selected cutting location should be where the welding distortion will be minimal.



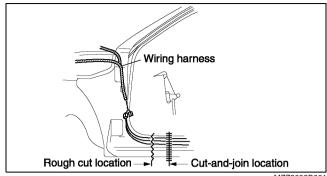
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## **Remove of Associated Parts**

• Protect moldings, garnishes, and ornaments with tape when removing associated parts.

## **Rough Cutting of Damaged Panel**

- Verify that there are no parts (such as pipes, hoses, and wiring harness) nearby or on the opposite side of a panel which could be damaged by heat.
- For cut-and-join areas, allow for an overlap of 30—50 mm {1.18—1.97 in} and then rough-cut the damaged panel.



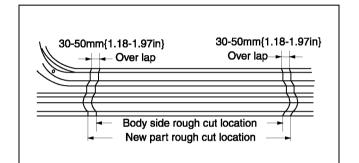
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### **INSTALLATION PREPARATIONS**

## **Rough Cutting of New Parts**

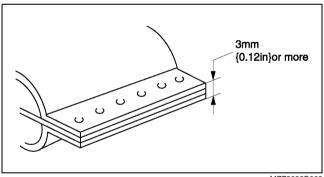
 For cut-and-join areas, allow for an overlap of 30—50 mm {1.18—1.97 in} with the remaining area on the body side and then rough-cut the new parts.



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## **Determination of Welding Method**

 If the total thickness at the area to be welded is 3 mm {0.12 in} or more, use a CO<sub>2</sub> gas shielded-arc welder to make the plug welds.



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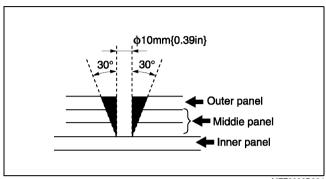
## Making Holes for CO<sub>2</sub> Arc Welding

• For places that cannot be spot welded, make a hole for CO<sub>2</sub> arc welding using a punch or drill as follows.

(mm {in})

Board thickness (ø)	Hole diameter (ø)
0.60-0.90 {0.02-0.03}	5 {0.19}
0.91—1.20 {0.04—0.05}	6 {0.23}
1.21—1.80 {0.051—0.07}	8 {0.31}
1.81—4.50 {0.071—0.17}	10 (0.39)

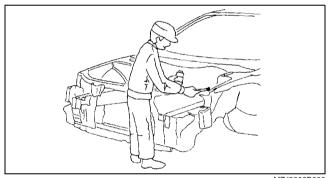
 Grind the shaded section indicated in the diagram below and create a hole in the part where the 3— 4 plates are put together. Also, weld the plates together tightly so that gaps do not develop.



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## **Application of Weld-through Primer**

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



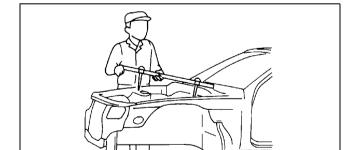
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## **EFFICIENT INSTALLATION OF BODY PANELS**

## **Checking Preweld Measurements And Watching**

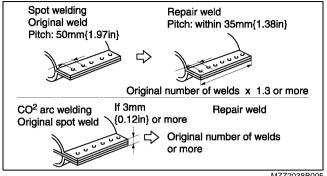
 Align to the standard reference dimensions, based upon the body dimensions illustration, so that new parts are installed in the correct position.



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## **Welding Notes**

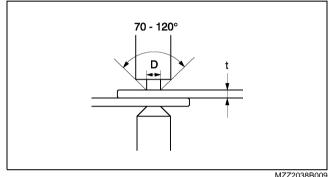
• For the number of weld points, welding should be performed in accordance with the following reference standards.



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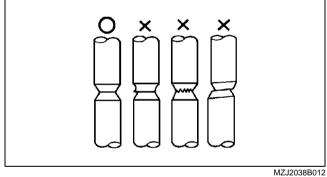
## **Spot Welding Notes**

• The shape of the spot welder tip is  $D=(2\times t)+3$ . If the upper panel thickness is different from that of the under panel, adjust to the thinner one.

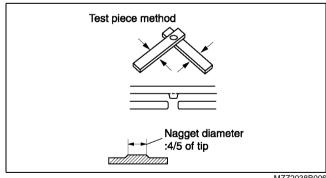


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- · Because the weld strength is affected by the shape of the spot welder tip, the optimum condition of the tip should always be maintained.
- Spot welds should be made at points other than the originally welded points.



· Before spot welding, make a trial weld using the same material as the body panel to check the weld strength.



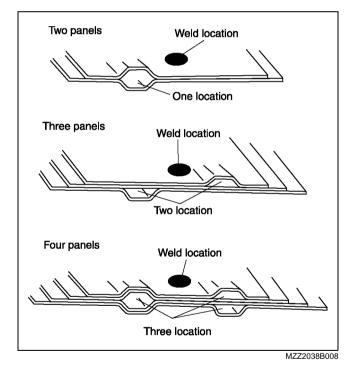
MZZ2038B006

Chisel dimensions

## **Checking Weld Strength**

 Installation locations of the engine, chassis, and seat belts are designated as important safety locations for weld strength. Check weld strength by driving a chisel between the panels at every fourth or fifth weld spot, and every tenth regular weld location.

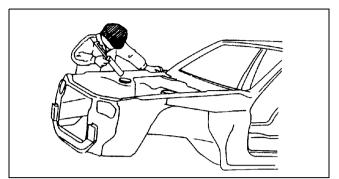
- 25mm {0.98in} 8mm{0.31in} Weld location Within 5mm {0.20in}
- Drive the chisel between the panels according to the number of panels as shown below.
- To determine weld strength, drive the chisel between the panel and check whether the panels come apart. If the panels come apart, make another weld near the original weld.
- · Restore the shape of the checked area.



## AFTER-INSTALLATION RUST PROOFING, NOISE AND VIBRATION INSULATING

## **Body Sealing**

- Apply body sealer where necessary.
  For locations where application of body sealer is difficult after installation, apply it before installation.

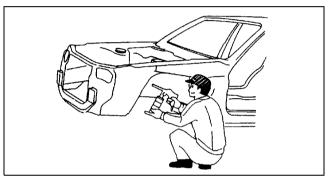


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## **Application of Undercoating**

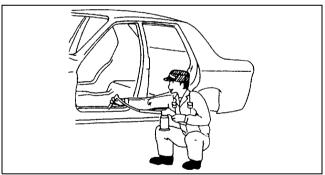
 Apply an undercoat to the required location of the body.



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## **Application of Rust Inhibitor**

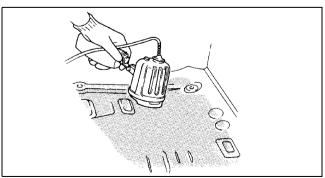
 Apply rust inhibitor (wax, oil, etc.) to the back of the welded areas.



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## **Application of Floor Silencer**

 Apply floor silencer by heating with an infrared ray lamp.



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## **ABBREVIATION**

5HB Five-door hatchback

Fr Front
Rr Rear
RH Right
LH Left
M Metallic
MC Mica

#### П

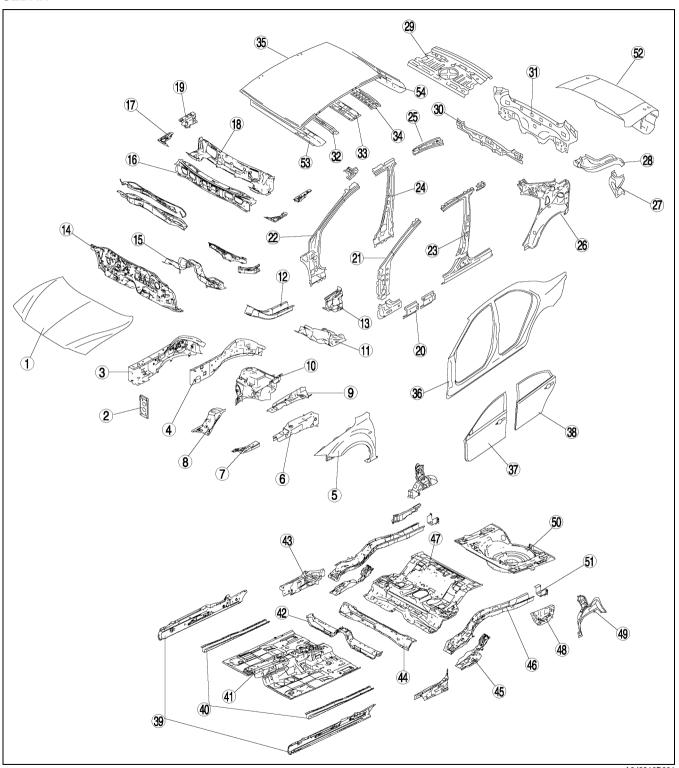
# **CONSTRUCTION**

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CONSTRUCTION	II-	-2

## **CONSTRUCTION**

## **CONSTRUCTION**

# CONSTRUCTION SEDAN AGE981007000B01



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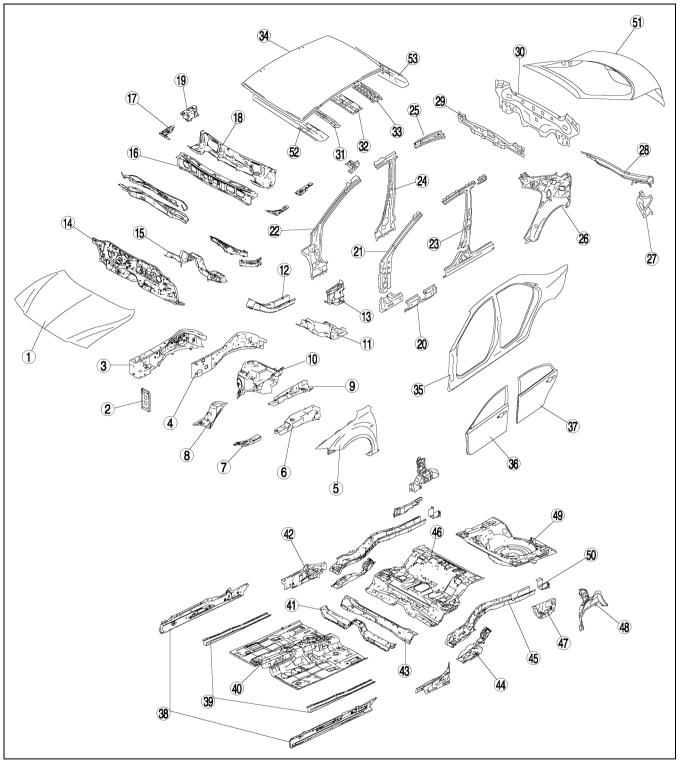
# x:Applied -:Not applied

No.	Part Name		High- tension steel	Rust proof steel	Thickness (mm) {in}
1	Bonnet		Х	Х	0.7{0.028}
2	Front bumper b	racket	-	-	2.9{0.114}
3	Front side	Fr	Х	Х	1.6{0.063}
3	frame inner	Rr	Х	Х	2.6{0.102}
4	Front side	Fr	Х	Х	1.4{0.055}
	frame outer	Rr	Х	Х	2.0{0.079}
5	Front fender pa	nel	х	х	0.75 {0.030}
6	Apron reinforce upper	ment	-	х	1.0 {0.039}
7	Shroud upper reinforcement		-	х	2.0{0.079}
8	Wheel apron pa front		-	х	0.65 {0.026}
9	Apron reinforcement lower		-	х	1.0 {0.039}
10	Suspension	Upper	Х	Х	3.2{0.126}
	housing	Lower	-	Х	1.2{0.047}
11	Torque box		-	Х	1.4{0.055}
12	Front frame rea	r	Х	Х	2.9{0.114}
13	Cowl side reinforcement		-	Х	1.2 {0.047}
14	Dash lower pan	el	-	х	0.85 {0.033}
15	Member dash lo	ower	-	Х	1.6{0.063}
16	Cowl panel		-	Х	0.7{0.028}
17	Cowl upper plat	te	-	Х	1.6{0.063}
18	Dash upper par	nel	-	Х	0.9{0.035}
19	Cowl upper plat	te	Х	Х	1.4{0.055}
20	Side sill reinford	cement	х	х	0.9 {0.035}
21	Front pillar reinforcement		х	1	1.8 {0.071}
22	Front pillar	Upper	Х	-	1.6{0.063}
	inner	Lower	Х	-	1.4{0.055}
		Upper front	х	-	1.8{0.071}
23	Center pillar reinforcement	Upper rear	x	-	1.6{0.063}
		Center	х	-	2.0{0.079}
		Lower	х	-	1.8 {0.071}
	0 1 "	Upper	Х	-	1.6{0.063}
24	Center pillar inner	Center	х	-	1.2{0.047}
	Lower		х	-	1.0{0.039}

	-:Not applied				
No.	Part Name		High- tension steel	Rust proof steel	Thickness (mm) {in}
25	Roof rail inner		Х	-	1.2{0.047}
26	Rear pillar inne	r	-	x	0.65 {0.026}
27	Corner plate		-	Х	0.7{0.028}
28	Rear fender rain	n rail	-	Х	0.7{0.028}
29	Package tray		-	-	0.65 {0.026}
30	Rear end memb	oer	-	ı	0.6{0.024}
31	Rear end panel		-	х	0.65 {0.026}
32	Roof reinforcem		-	ı	0.5{0.020}
33	Roof reinforcem	nent	Х	-	1.4{0.055}
34	Roof reinforcem	nent	-	ı	0.55 {0.022}
35	Roof panel		-	-	0.75 {0.030}
36	Side frame oute	er	-	Х	0.7{0.028}
37	Front door		-	Х	0.7{0.028}
38	Rear door		-	Х	0.7{0.028}
39	Side sill inner		Х	Х	1.6{0.063}
40	Front B frame	Fr	Х	Х	2.3{0.091}
		Rr	-	Х	1.6{0.063}
41	Front floor pan		-	х	0.65 {0.026}
42	Crossmember N	No.2	-	-	1.2{0.047}
43	Side sill inner re	ear	Х	Х	1.6{0.063}
44	Crossmember N	No.3	Х	ı	1.4{0.055}
45	Link bracket		х	x	2.3 {0.091}
46	Rear side	Fr	Х	Х	1.8{0.071}
	frame	Rr	Х	Х	1.4{0.055}
47	Center floor par		-	Х	0.6{0.024}
48	Floor side pane	l	-	Х	0.6{0.024}
49	Wheel house inner		-	х	0.75 {0.030}
50	Rear floor pan		-	Х	0.65{0.26}
51	Rear bumper	LH	Х	Х	2.0{0.079}
	bracket	RH	Х	Х	1.4{0.055}
52	Trunk lid panel		-	Х	0.75 {0.030}
53	Front header		-	-	1.2{0.047}
54	Rear header		-	-	0.65 {0.026}

**CONSTRUCTION** 

## 5HB



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## **CONSTRUCTION**

x:Applied -:Not applied

No.	Part Name		High- tension steel	Rust proof steel	Thickness (mm) {in}
1	Bonnet		Х	Х	0.7{0.028}
2	Front bumper bracket		-	-	2.9{0.114}
3	Front side	Fr	Х	Х	1.6{0.063}
3	frame inner	Rr	Х	Х	2.6{0.102}
4	Front side	Fr	Х	Х	1.4{0.055}
7	frame outer	Rr	Х	Х	2.0{0.079}
5	Front fender pa	nel	х	x	0.75 {0.030}
6	Apron reinforce upper	ment	-	x	1.0 {0.039}
7	Shroud upper reinforcement		-	Х	2.0 {0.079}
8	Wheel apron pa	anel	-	Х	0.65 {0.026}
9	Apron reinforce lower	ment	-	х	1.0 {0.039}
10	Suspension	Upper	х	х	3.2{0.126}
10	housing	Lower	-	Х	1.2{0.047}
11	Torque box		-	Х	1.4{0.055}
12	Front frame rea	r	Х	Х	2.9{0.114}
13	Cowl side reinforcement		-	x	1.2 {0.047}
14	Dash lower panel		-	х	0.85 {0.033}
15	Member dash lo	ower	-	Х	1.6{0.063}
16	Cowl panel		-	Х	0.7{0.028}
17	Cowl upper plat	te	-	Х	1.6{0.063}
18	Dash upper par	nel	-	Х	0.9{0.035}
19	Cowl upper plat	te	Х	Х	1.4{0.055}
20	Side sill reinford	cement	x	x	0.9 {0.035}
21	Front pillar reinforcement		х	-	1.8 {0.071}
22	Front pillar	Upper	Х	-	1.6{0.063}
22	inner	Lower	Х	-	1.4{0.055}
	front Uppe	Upper front	х	-	1.8{0.071}
23		Upper rear	х	-	1.6{0.063}
		Center	Х	-	2.0{0.079}
		Lower	х	-	1.8 {0.071}
	o	Upper	х	-	1.6{0.063}
24	Center pillar inner	Center	х	-	1.2{0.047}
	1111161	Lower	х	-	1.0{0.039}

	-:Not applie				
No.	Part Name		High- tension steel	Rust proof steel	Thickness (mm) {in}
25	Roof rail inner		Х	-	1.2{0.047}
26	Rear pillar inne	r	-	х	0.65 {0.026}
27	Corner plate		-	Х	0.7{0.028}
28	Rear fender rain	n rail	-	Х	0.8{0.031}
29	Rear end memb	oer	-	-	0.6{0.024}
30	Rear end panel		-	x	0.65 {0.026}
31	Roof reinforcem	nent	-	-	0.5{0.020}
32	Roof reinforcem	nent	Х	-	1.4{0.055}
33	Roof reinforcen	nent	-	-	0.55 {0.022}
34	Roof panel		ı	ı	0.75 {0.030}
35	Side frame oute	er	-	Х	0.7{0.028}
36	Front door		-	Х	0.7{0.028}
37	Rear door		-	Х	0.7{0.028}
38	Side sill inner		Х	Х	1.6{0.063}
39	Front B frame	R frame Fr X	Х	Х	2.3{0.091}
00	Tront B hame	Rr	-	Х	1.6{0.063}
40	Front floor pan		-	x	0.65 {0.026}
41	Crossmember N	No.2	-	-	1.2{0.047}
42	Side sill inner re	ear	х	Х	1.6{0.063}
43	Crossmember N	No.3	Х	-	1.4{0.055}
44	Link bracket		х	х	2.3 {0.091}
45	Rear side	Fr	Х	Х	1.8{0.071}
70	frame	Rr	Х	Х	1.4{0.055}
46	Center floor par		-	Х	0.6{0.024}
47	Floor side pane	·[	-	Х	0.6{0.024}
48	Wheel house in	ner	-	х	0.75 {0.030}
49	Rear floor pan		ı	х	0.65 {0.026}
50	Rear bumper	LH	Х	X	2.0{0.079}
	bracket	RH	Х	Х	1.4{0.055}
51	Liftgate panel		-	Х	0.7{0.028}
52	Front header		-	-	1.2{0.047}
53	Rear header	Center	-	-	0.7 {0.028}
<u> </u>		Side	-	-	1.4{0.055}

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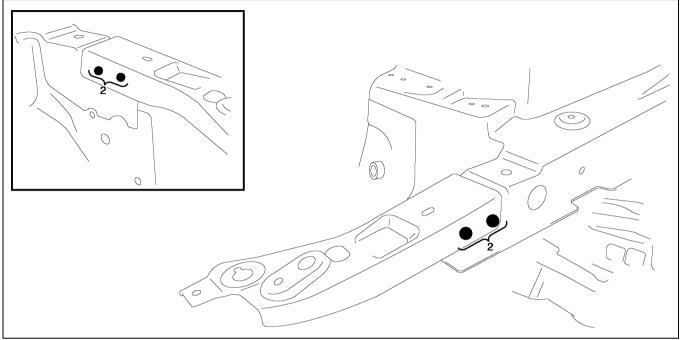
For shroud panel removal/installation and replacement procedures, refer to the MAZDA6 Workshop Manual (1730-1\*-02C)
\*:Indicates the printing location
E-Europe
0-Japan

## PANEL REPLACEMENT

## SHROUD UPPER REINFORCEMENT REMOVAL

1. Remove the shroud upper reinforcement.

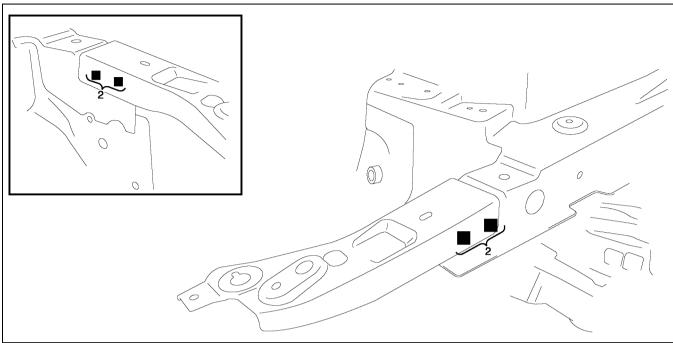
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## SHROUD UPPER RAINFORCEMENT INSTALLATION

- Drill holes for plug welds before installing new parts.
   After trial-fitting new parts, make sure the related parts fit properly.

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## COWL SIDE REINFORCEMENT AND COWL UPPER PLATE REMOVAL

1. Remove the cowl side reinforcement.

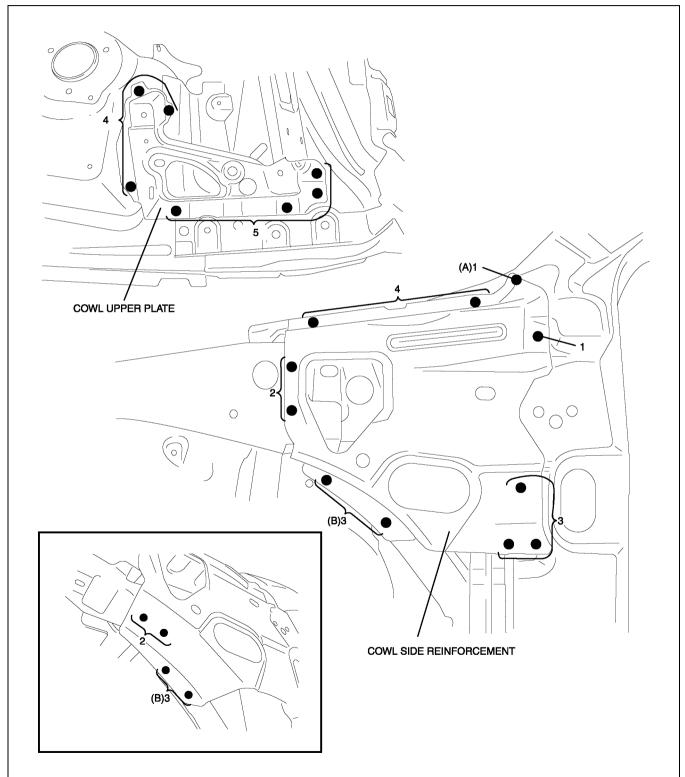
#### A6E981253290B01

## Note

• The weld locations (B) in the figure indicate the same locations.

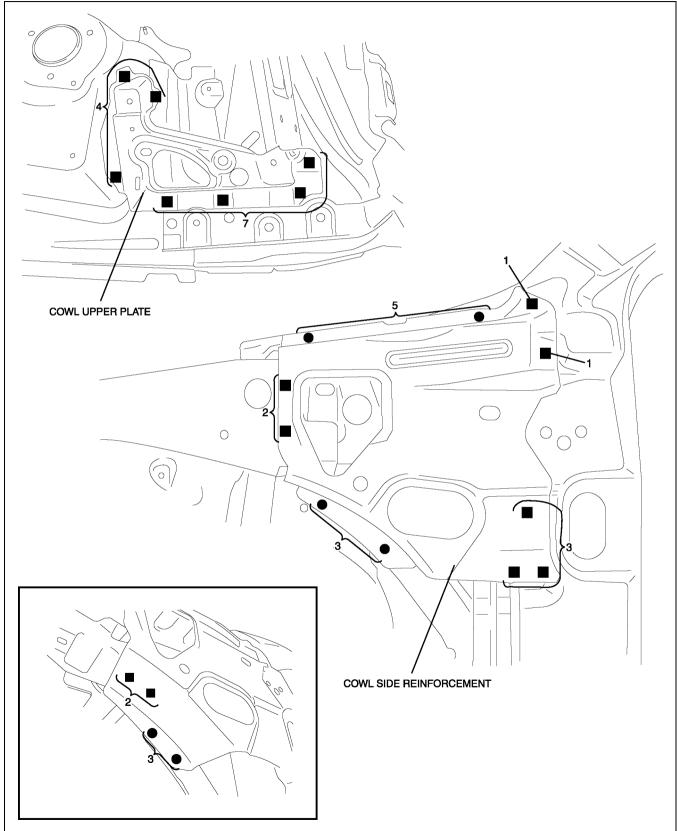
#### Caution

- Be careful not to damage the windshield when drilling the location indicated by (A).
- 2. Remove the cowl upper plate.



## **COWL SIDE REINFORCEMENT AND COWL UPPER PLATE INSTALLATION**

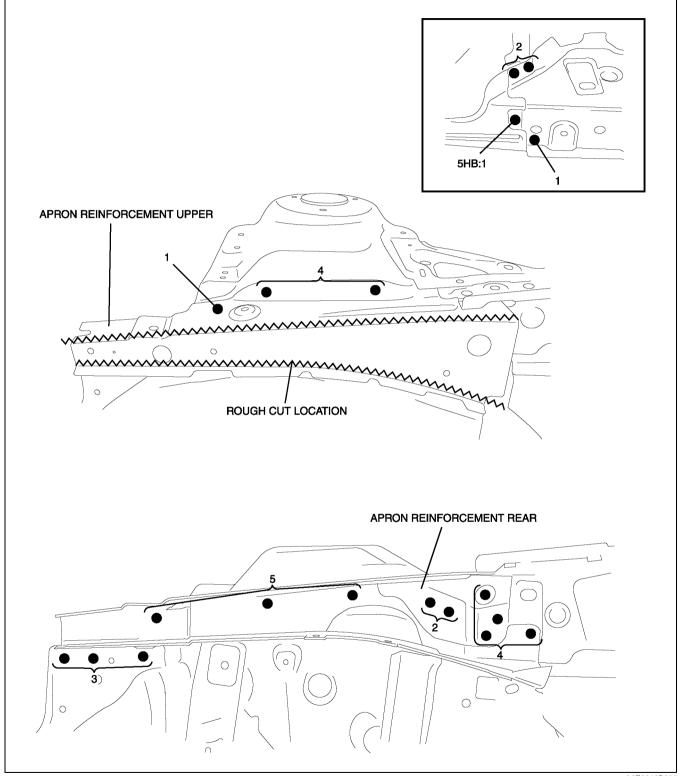
- When installing new parts, position each part so that the section measurement aligns to the body dimension.
   Drill holes for plug welds before installing new parts.
   After trial-fitting new parts, make sure the related parts fit properly.



## APRON REINFORCEMENT ASSEMBLY REMOVAL

- Rough cut the apron reinforcement upper.
   Remove the apron reinforcement assembly.

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## APRON REINFORCEMENT ASSEMBLY INSTALLATION

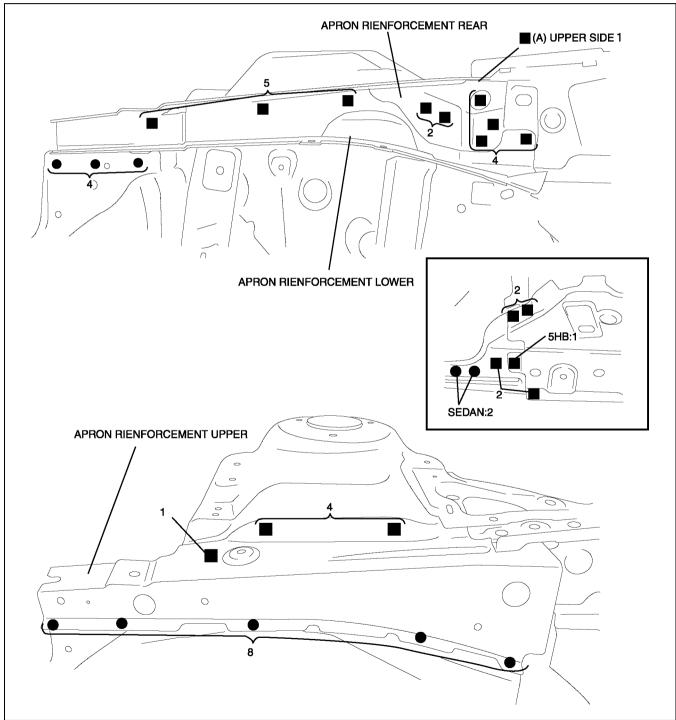
- 1. When installing new parts, position each part so that the section measurement aligns to the body dimension.
- 2. Drill holes for plug welds before installing new parts.
- 3. Install in the following order: apron reinforcement lower, apron reinforcement rear, and apron reinforcement upper.

#### Note

• After installing, fillet weld in location (A).

#### Caution

- When fillet welding, be careful of dripping, melted metal.
- 4. After trial-fitting new parts, make sure the related parts fit properly.

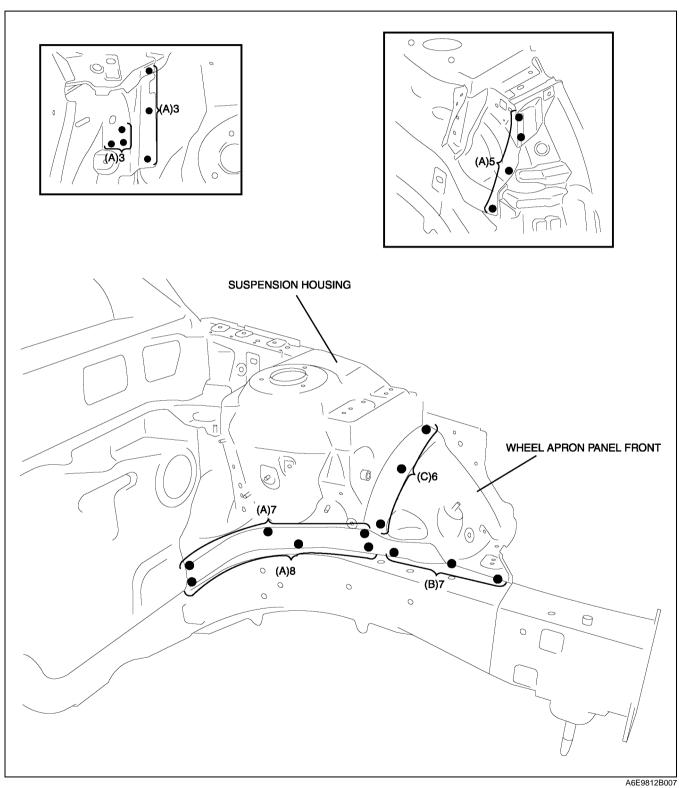


## WHEEL APRON PANEL ASSEMBLY REMOVAL

1. Drill the 26 weld locations indicated by (A), and 7 weld locations indicated by (B), remove the wheel apron panel assembly.

## Note

If removing the wheel apron panel front and the suspension housing separately as separate parts, drill 7
locations indicated by (B) and drill 6 locations indicated by (C).



## WHEEL APRON PANEL ASSEMBLY INSTALLATION

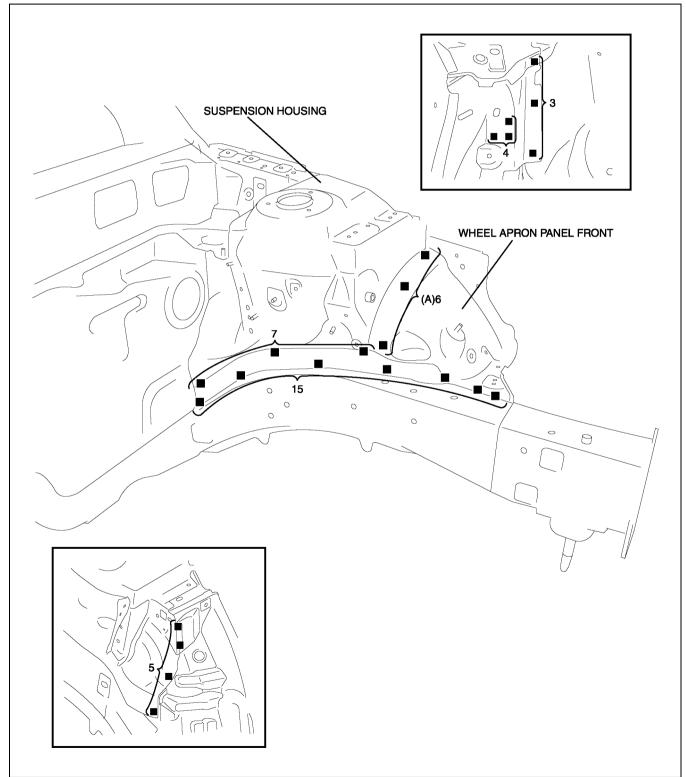
- 1. When installing new parts, position each part so that the section measurement aligns to the body dimension.

  2. Drill holes for plug welds before installing new parts.

  3. After trial-fitting new parts, make sure the related parts fit properly.

### Note

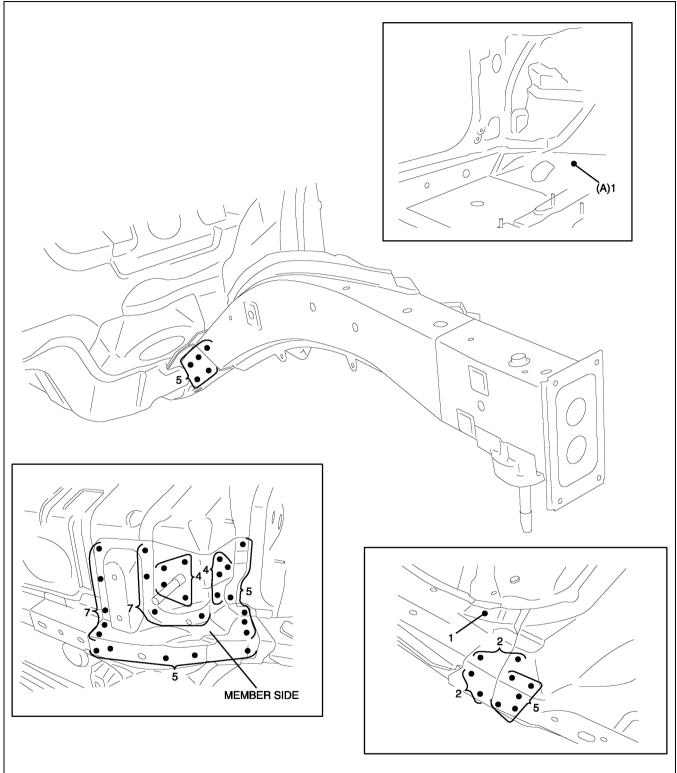
• When replacing the wheel apron panel front and the suspension housing separately, weld 6 locations indicated by (A).



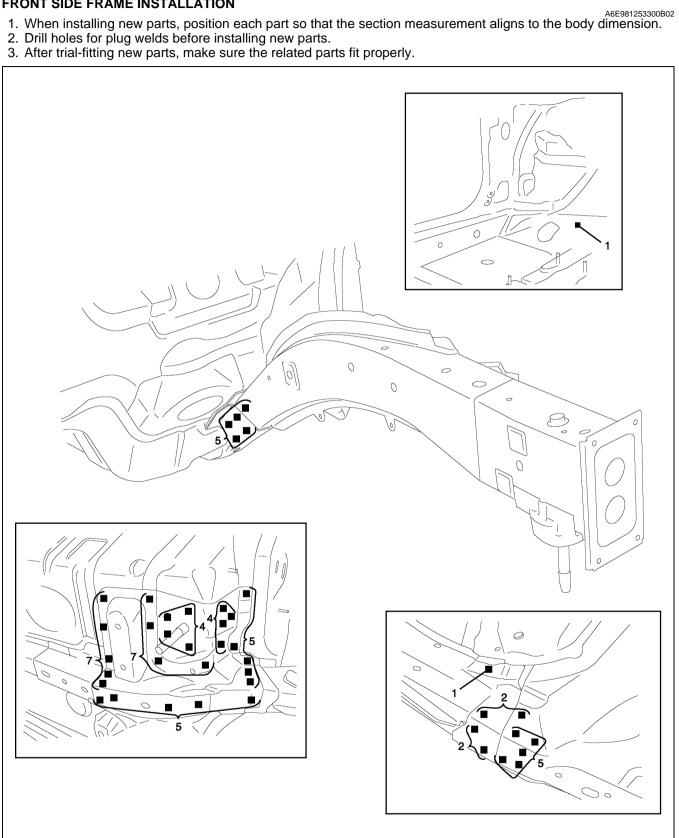
## FRONT SIDE FRAME REMOVAL

A6E981253300B01

- 1. Remove the member side.
- Drill the 1 weld locations indicated by (A), from the room side.
   Drill the remaining weld locations and remove the front side frame by pulling it.



## FRONT SIDE FRAME INSTALLATION

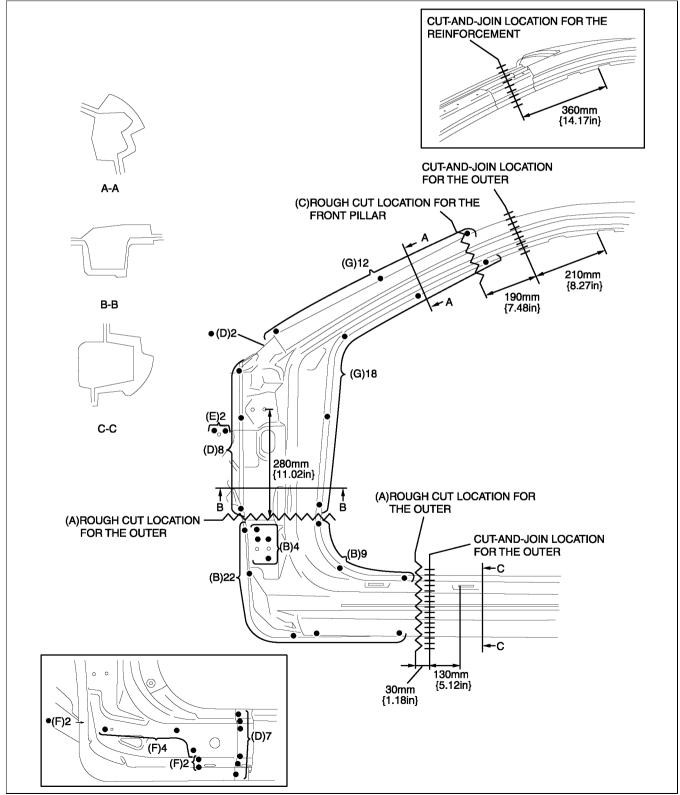


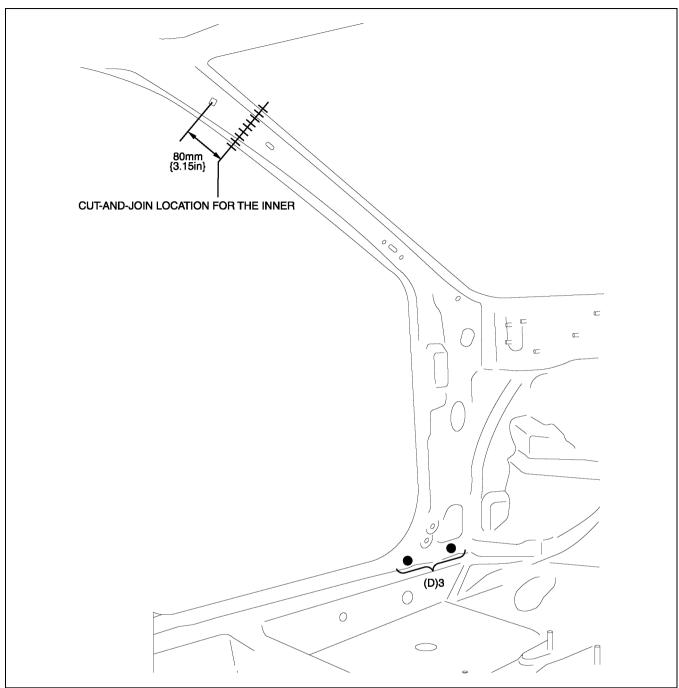
## FRONT PILLAR REMOVAL

- 1. Rough cut area (A), drill the 35 weld locations indicated by (B), then remove the lower part of the front pillar
- 2. Rough cut area (C), drill the 20 weld locations indicated by (D), and 2 weld locations indicated by (E), then remove the front pillar.

#### Note

• If removing the front pillar reinforcement and the front pillar inner as separate parts, drill 8 locations indicated by (F) and drill 30 locations indicated by (G).





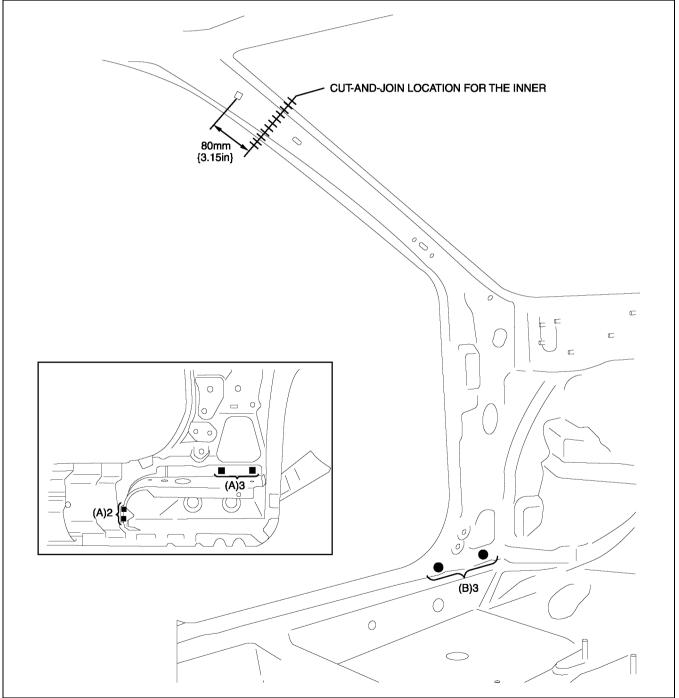
## FRONT PILLAR INSTALLATION

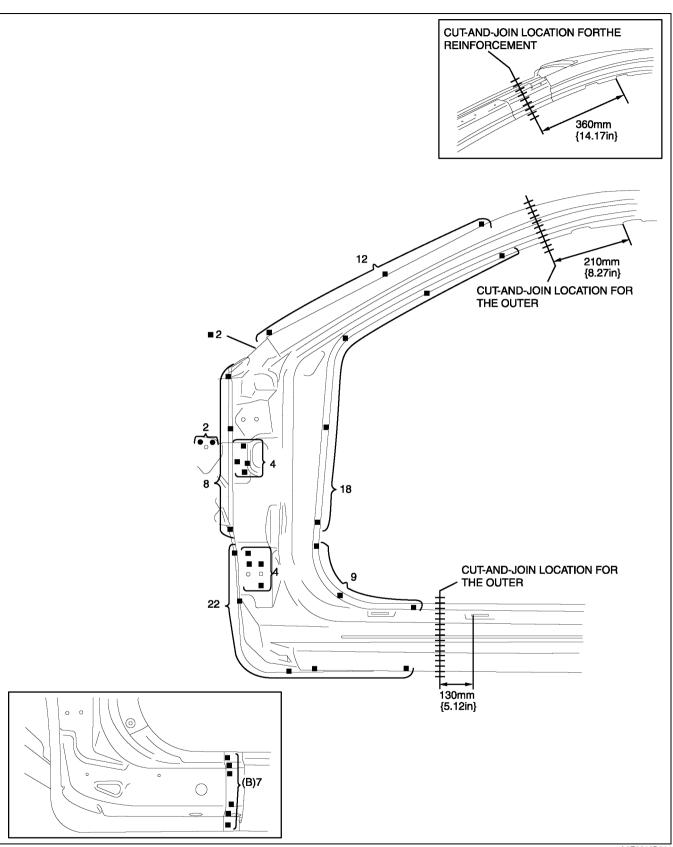
A6E981274090B02

- 1. When joining the new and old parts, temporarily install and fit the new part in position, measure each dimension according to the body dimension, then adjust the position to align it to the standard dimensions.
- 2. Drill holes for plug welds before installing new parts.

#### Note

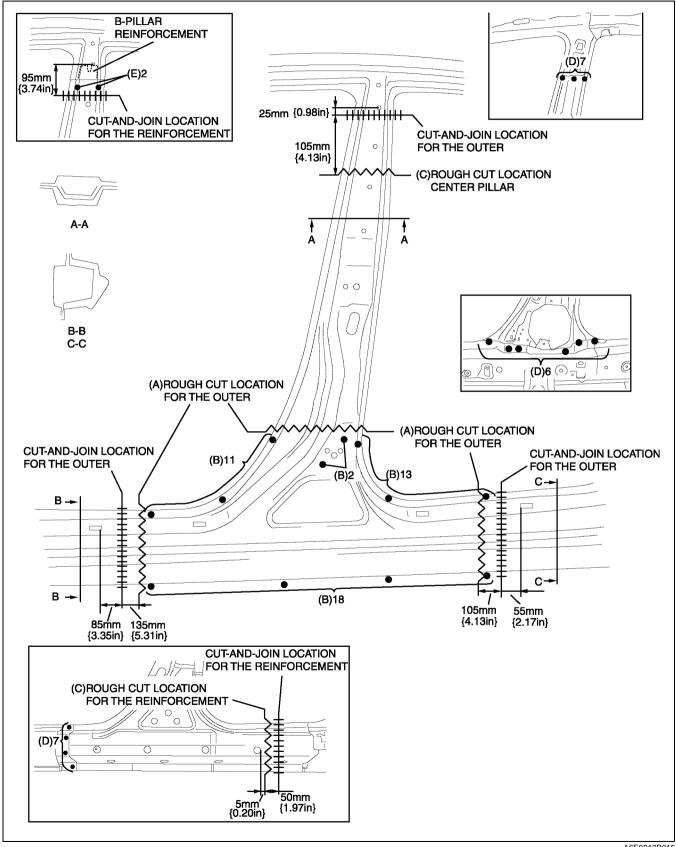
- In areas where the outer, reinforcement, inner, etc. are in 3-4 layers, drill holes for plug welds in all but the innermost panel.
- 3. Weld in 5 locations indicated by (A), then trial-fit the inner and reinforcement.
- 4. Weld in 10 locations indicated by (B), then install the inner and reinforcement to the existing parts.
- 5. After trial-fitting new parts, make sure the related parts fit properly.





#### **CENTER PILLAR REMOVAL**

- 1. Rough cut area (A), drill the 44 weld locations indicated by (B), then remove the lower part of the center pillar
- 2. Rough cut area (C), drill the 20 weld locations indicated by (D), then remove the center pillar outer.
- 3. Drill the 2 weld locations indicated by (E) and remove the B-pillar reinforcement.



#### **CENTER PILLAR INSTALLATION**

A6E981270350B02

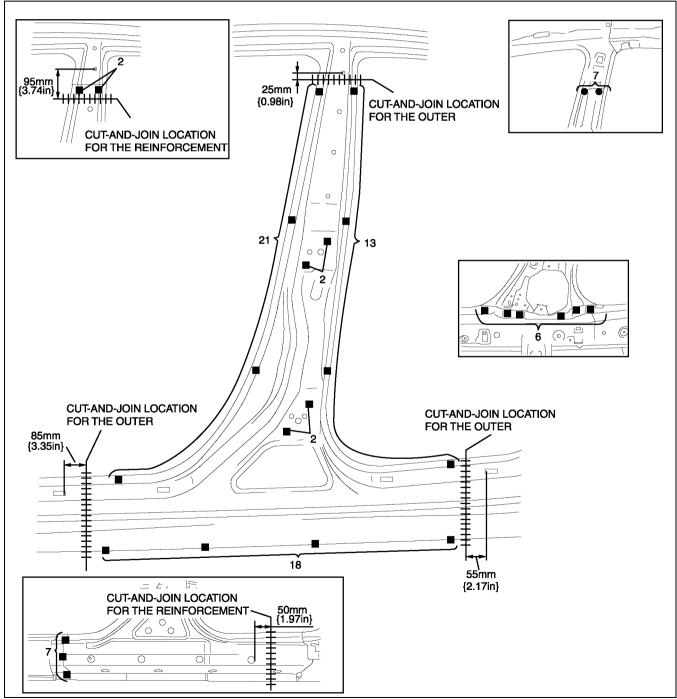
- 1. When joining the new and old parts, temporarily install and fit the new part in position, measure each dimension according to the body dimension, then adjust the position to align it to the standard dimensions.
- 2. Drill holes for plug welds before installing new parts.

#### Note

• In areas where the outer, reinforcement, inner, etc. are in 3-4 layers, drill holes for plug welds in all but the innermost panel.

#### Warning

- When cutting and joining the reinforcement, make sure not to damage or scratch the B-pillar reinforcement.
- 3. Install in the following order: inner, reinforcement, and outer.
- 4. After trial-fitting new parts, make sure the related parts fit properly.

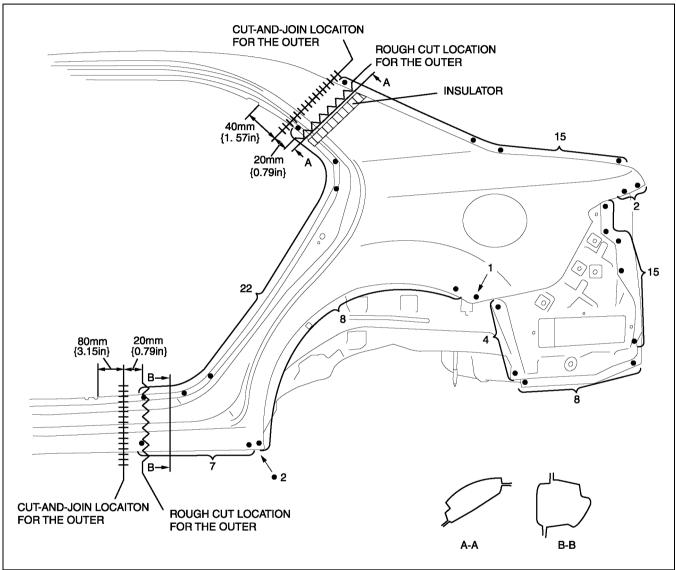


# REAR FENDER PANEL REMOVAL SEDAN

A6E981274100B01

#### Caution

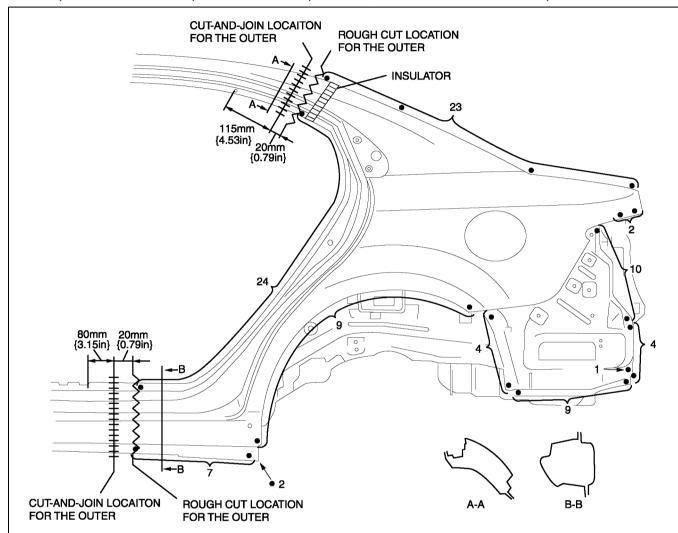
- Avoid cutting with a blowtorch or similar tools as the insulator (shaded area) is flammable.
- 1. The rear fender panel and the rear pillar inner are joined with glue at the wheel arch line. Use a chisel or other to separate the rear fender panel from the rear pillar inner, then remove the rear fender panel.



#### 5HB

#### Caution

- Avoid cutting with a blowtorch or similar tools as the insulator (shaded area) is flammable.
- 1. The rear fender panel and the rear pillar inner are joined with glue at the wheel arch line. Use a chisel or other to separate the rear fender panel from the rear pillar inner, then remove the rear fender panel.

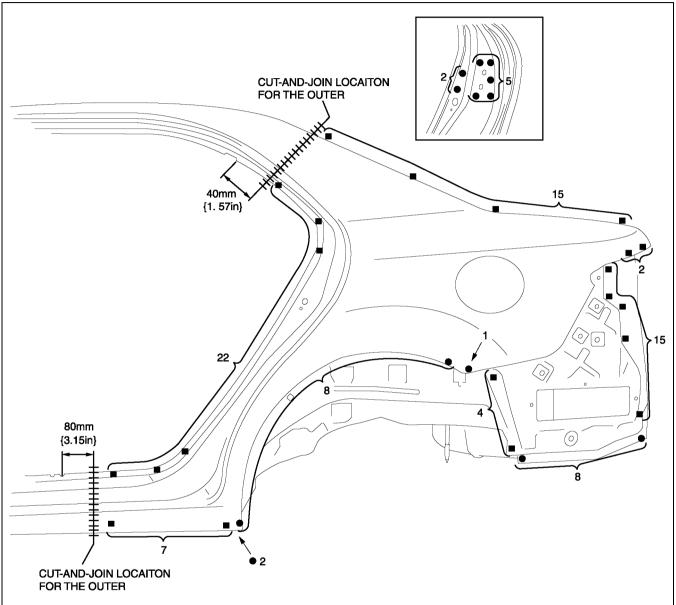


#### **REAR FENDER PANEL INSTALLATION**

#### **SEDAN**

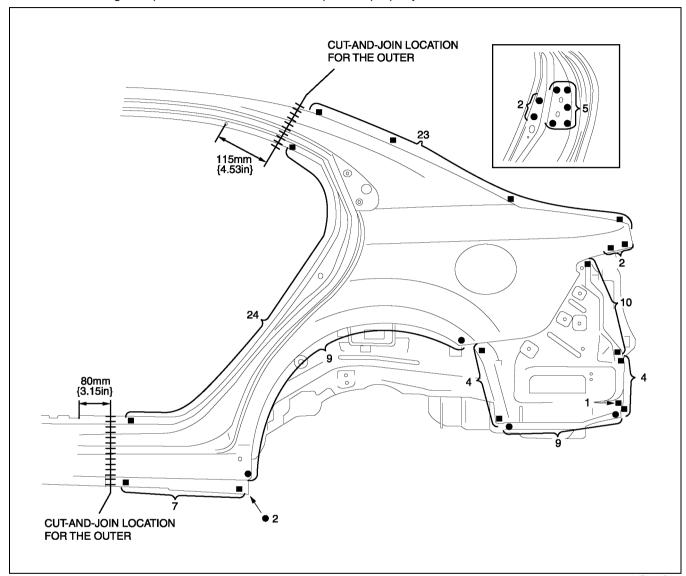
A6E981274100B02

- 1. When joining the new and old parts, temporarily install and fit the new part in position, measure each dimension according to the body dimension, then adjust the position to align it to the standard dimensions.
- 2. Drill holes for plug welds before installing new parts.
- 3. Before installing new parts, apply spot weld sealer to the wheel arch line.
- 4. After trial-fitting new parts, make sure the related parts fit properly.



#### 5HB

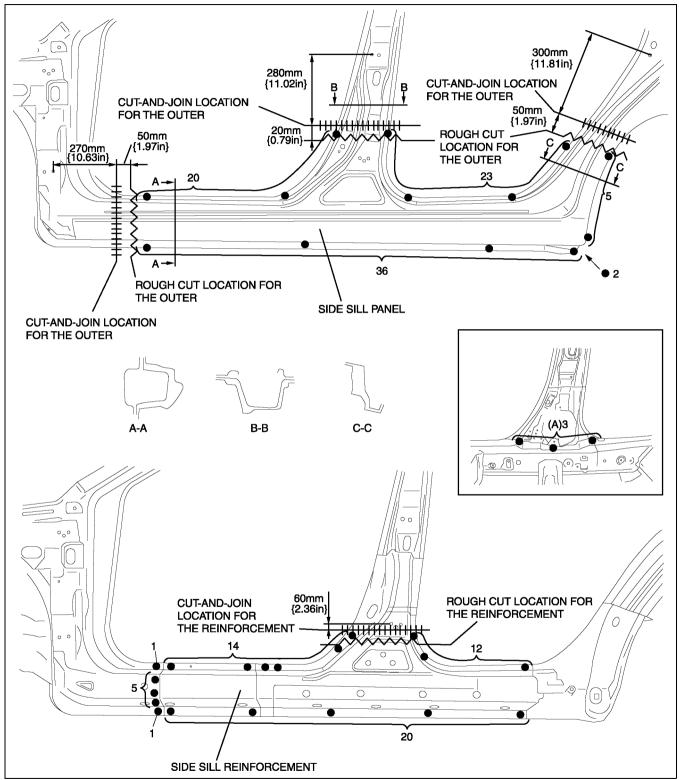
- 1. When joining the new and old parts, temporarily install and fit the new part in position, measure each dimension according to the body dimension, then adjust the position to align it to the standard dimensions.
- Drill holes for plug welds before installing new parts.
   Before installing new parts, apply spot weld sealer to the wheel arch line.
   After trial-fitting new parts, make sure the related parts fit properly.



#### SIDE SILL PANEL REMOVAL

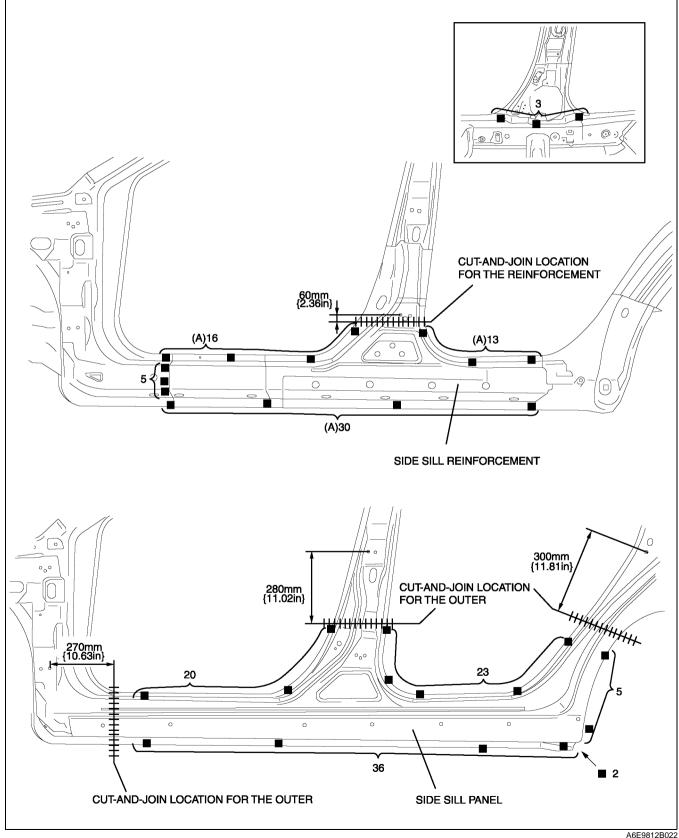
A6E981270270B01

- 1. Remove the side sill panel.
- 2. Drill the 3 weld locations indicated by (A), from the room side.
- 3. Remove the side sill reinforcement.



#### SIDE SILL PANEL INSTALLATION

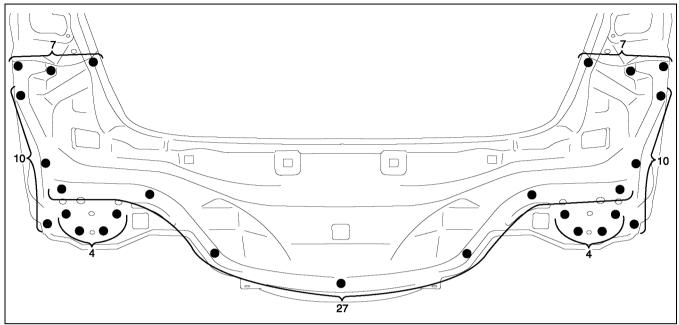
- 1. When joining the new and old parts, temporarily install and fit the new part in position, measure each dimension according to the body dimension, then adjust the position to align it to the standard dimensions.
- 2. Drill holes for plug welds before installing new parts.
- 3. Plug welding of 59 weld locations indicated by (A), during installation of the side sill panel.
- 4. After trial-fitting new parts, make sure the related parts fit properly.



# REAR END PANEL REMOVAL SEDAN

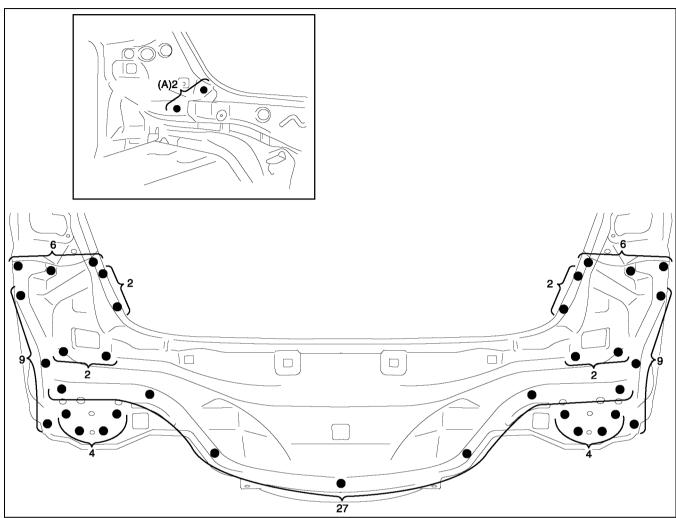
A6E981270750B01

1. Remove the rear end panel.



## 5HB

- Drill the 2 weld locations indicated by (A), from the room side.
   Remove the rear end panel.

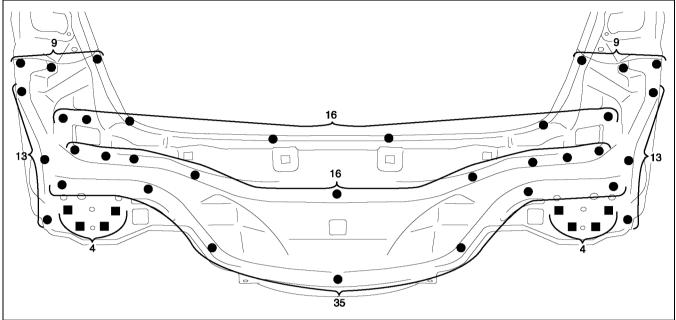


### **REAR END PANEL INSTALLATION**

#### **SEDAN**

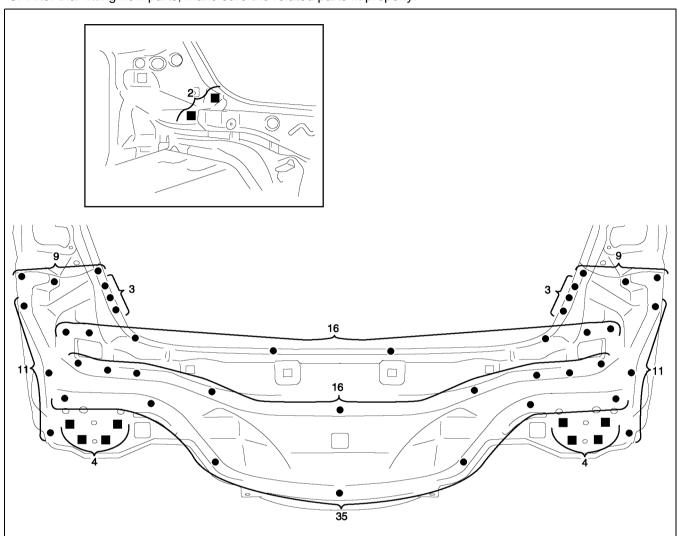
A6E981270750B02

- When installing new parts, position each part so that the section measurement aligns to the body dimension.
   Drill holes for plug welds before installing new parts.
- 3. After trial-fitting new parts, make sure the related parts fit properly.



#### 5HB

- When installing new parts, position each part so that the section measurement aligns to the body dimension.
   Drill holes for plug welds before installing new parts.
   After trial-fitting new parts, make sure the related parts fit properly.



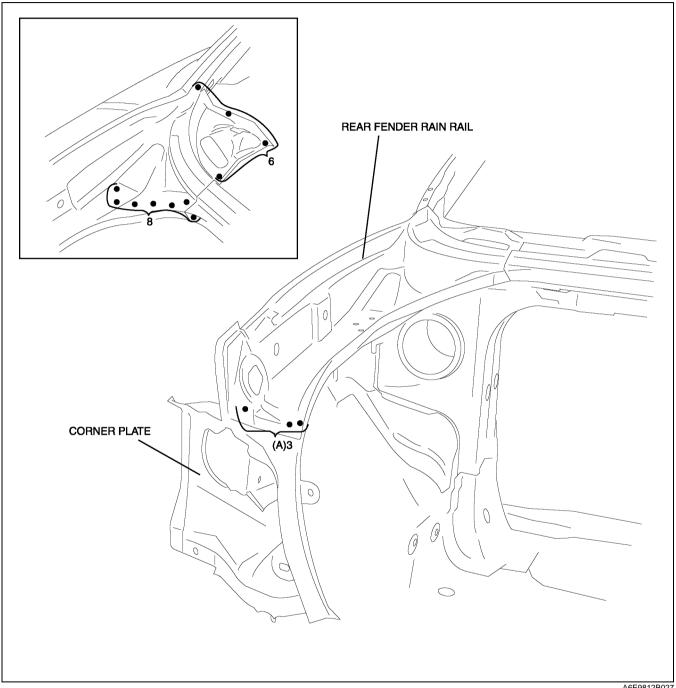
# REAR FENDER RAIN RAIL AND CORNER PLATE REMOVAL

A6E981270440B01

1. Remove the rear fender rein rail and corner plate.

#### Note

• When removing the rear fender rain rail and the corner plate separately, drill 3 locations indicated by (A).

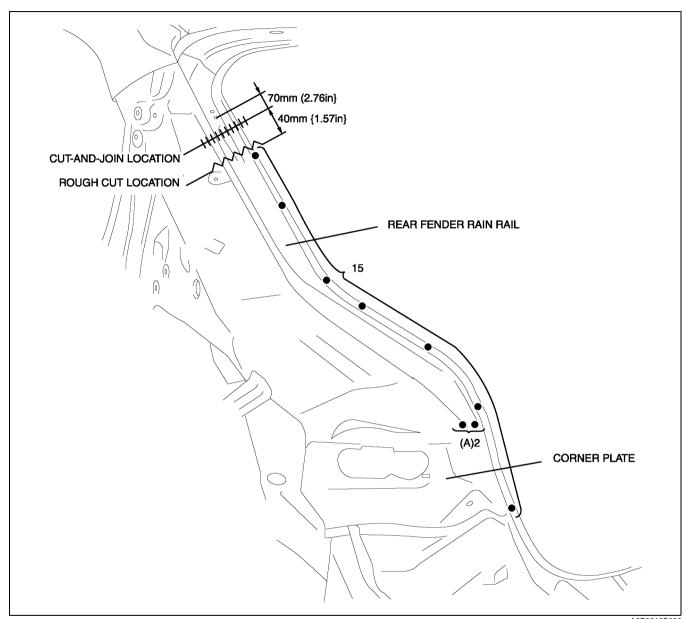


#### 5HB

1. Remove the rear fender rain rail and corner plate.

#### Note

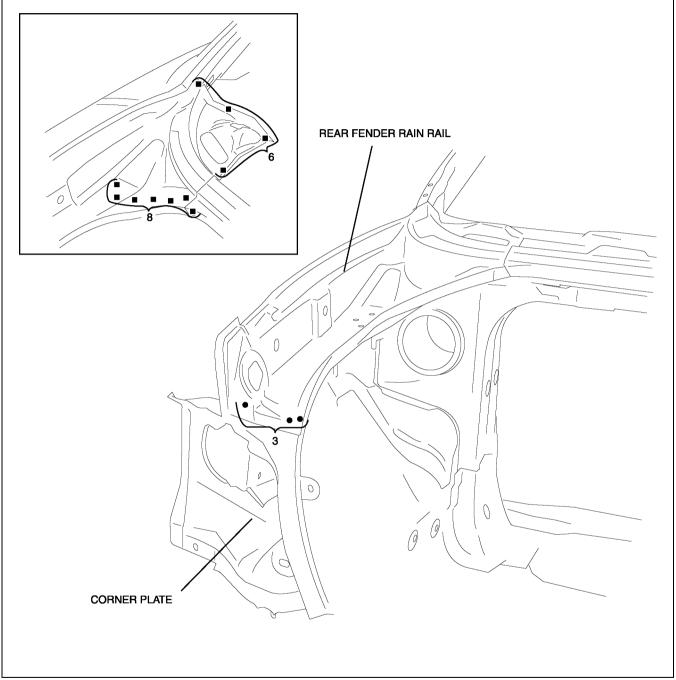
• When removing the rear fender rain rail and the corner plate separately, drill 2 locations indicated by (A).



# REAR FENDER RAIN RAIL AND CORNER PLATE INSTALLATION

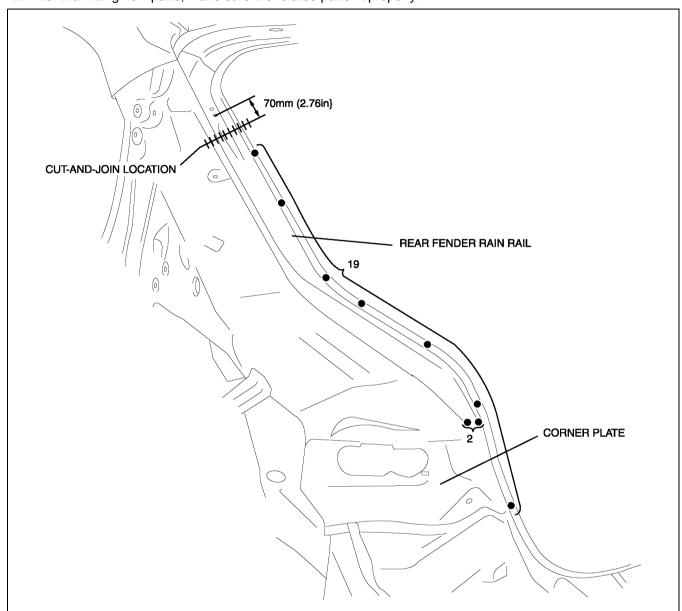
A6E981270440B02

- When installing new parts, position each part so that the section measurement aligns to the body dimension.
   Drill holes for plug welds before installing new parts.
- 3. After trial-fitting new parts, make sure the related parts fit properly.



#### 5HB

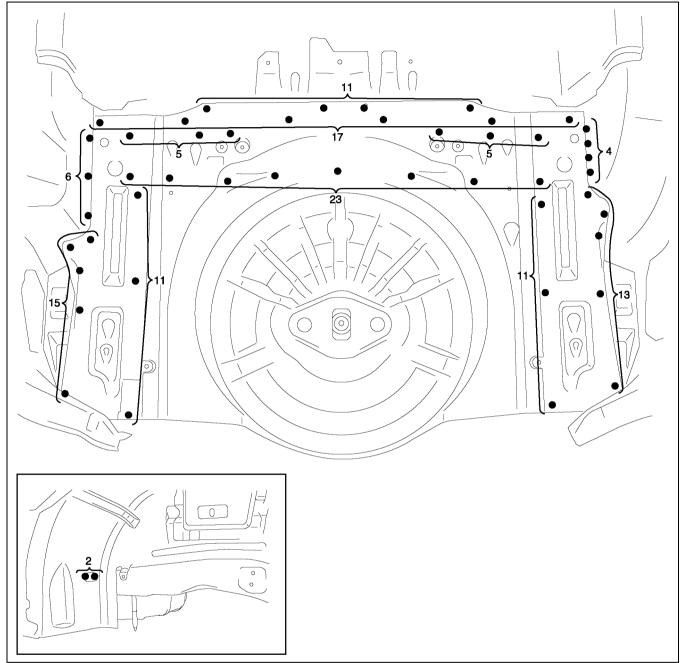
- When joining the new and old parts, temporarily install and fit the new part in position, measure each dimension according to the body dimension, then adjust the position to align it to the standard dimensions.
   After trial-fitting new parts, make sure the related parts fit properly.



## **REAR FLOOR PAN REMOVAL**

1. Remove the rear floor pan.

A6E981253750B01

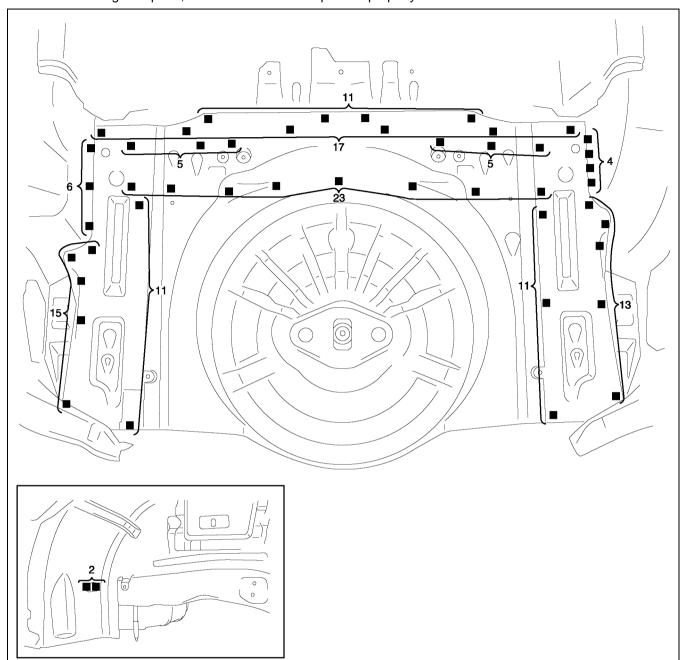


A6E981253750B02

## **PANEL REPLACEMENT**

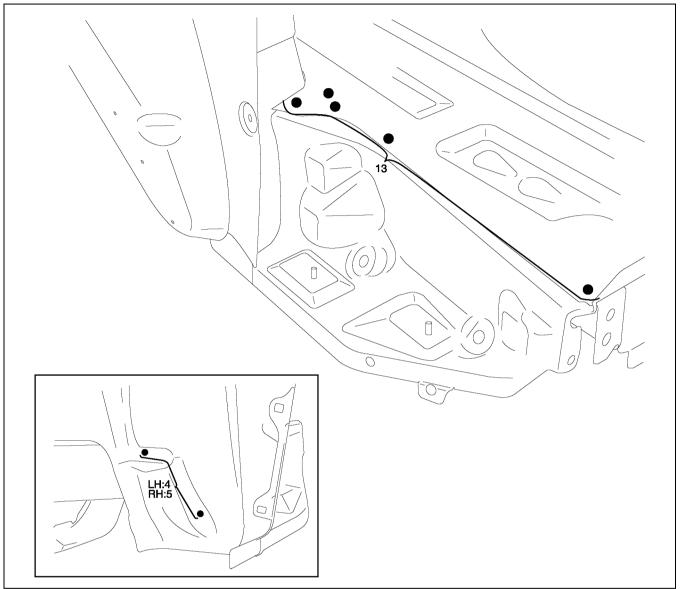
### **REAR FLOOR PAN INSTALLATION**

- Drill holes for plug welds before installing new parts.
   After trial-fitting new parts, make sure the related parts fit properly.

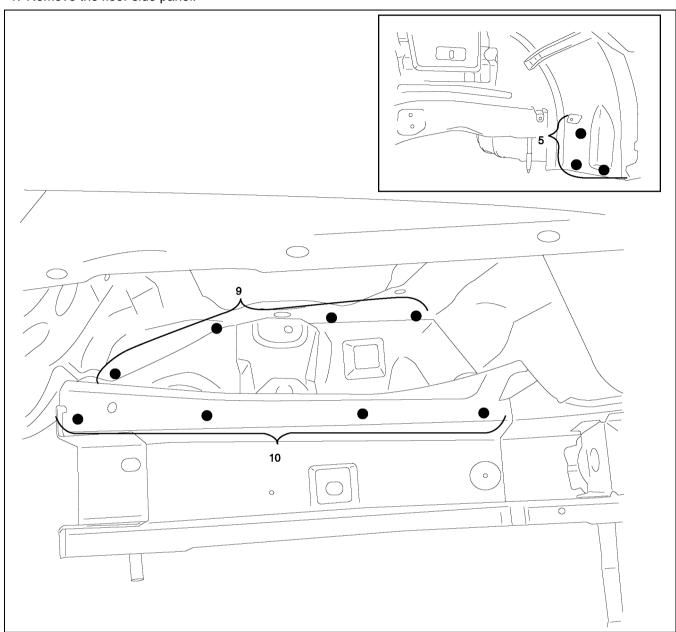


# FLOOR SIDE PANEL REMOVAL **SEDAN**1. Remove the floor side panel.

A6E981253730B01



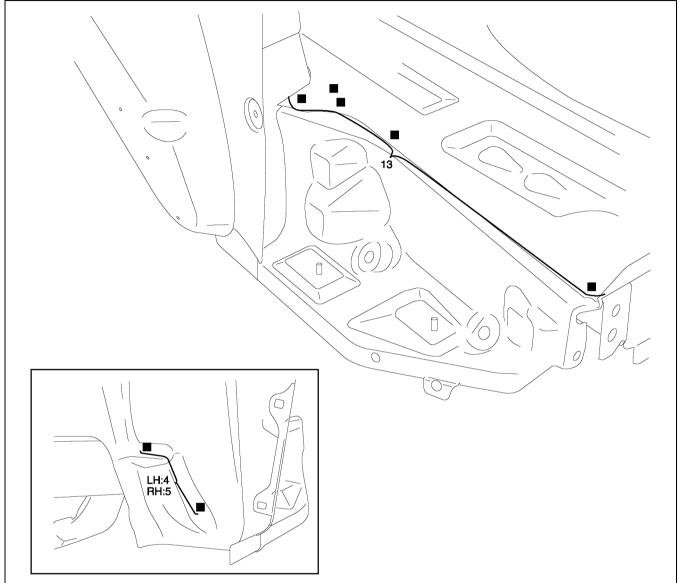
**5HB**1. Remove the floor side panel.



# FLOOR SIDE PANEL INSTALLATION

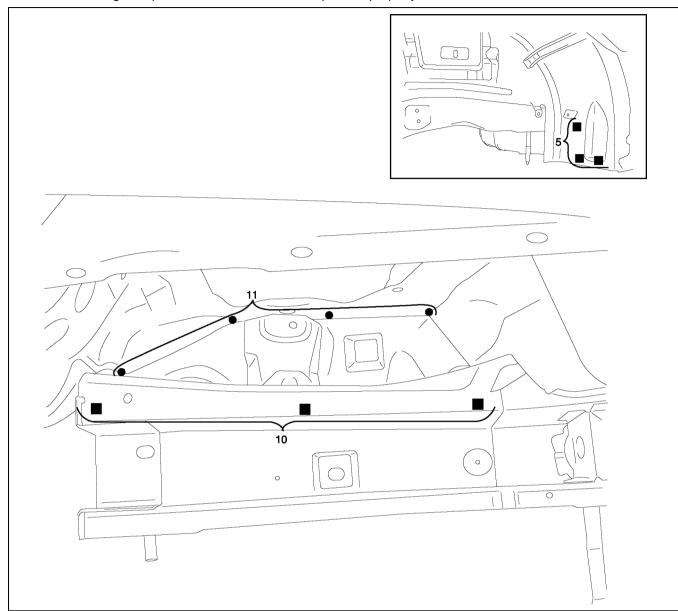
A6E981253730B02

- Drill holes for plug welds before installing new parts.
   After trial-fitting new parts, make sure the related parts fit properly.



## 5HB

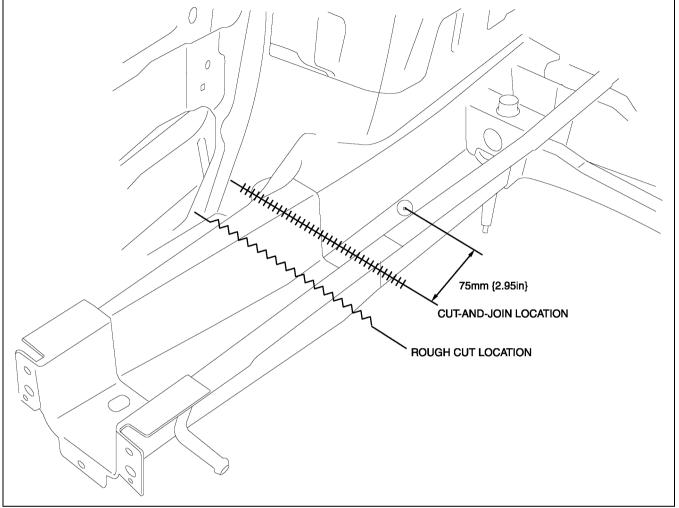
- Drill holes for plug welds before installing new parts.
   After trial-fitting new parts, make sure the related parts fit properly.



## REAR SIDE FRAME (PARTIAL CUTTING) REMOVAL

1. Rough cut and remove the damaged part of the rear side frame.

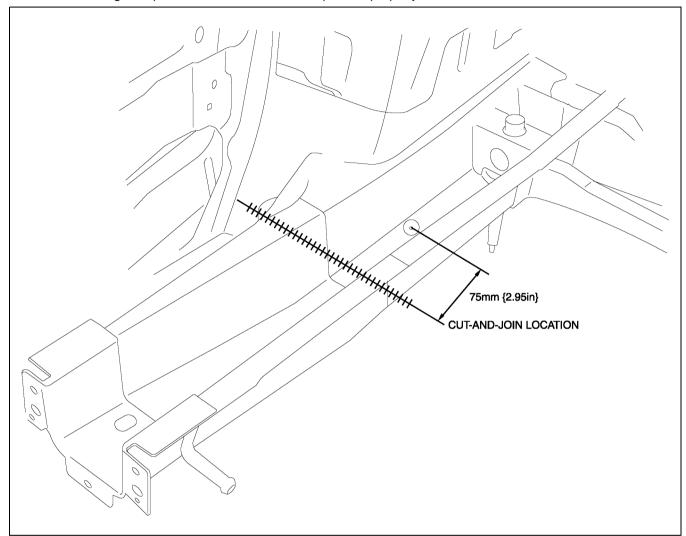
A6E981253815B01



## **REAR SIDE FRAME (PARTIAL CUTTING) INSTALLATION**

A6E981253815B02

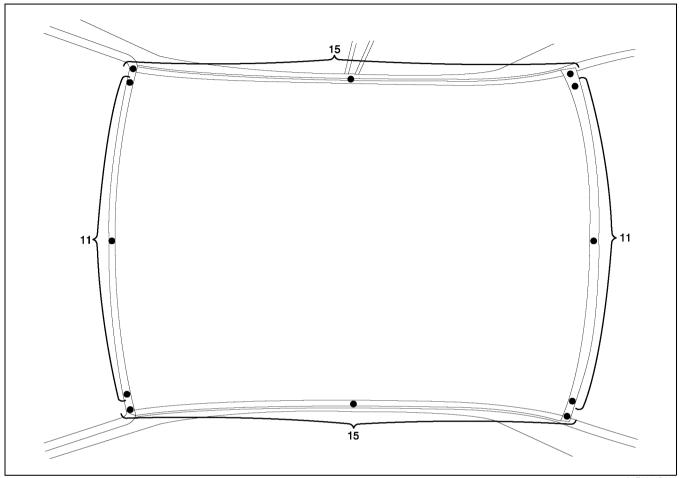
- Cut the new and old parts at the cut-and-join location, and bevel the parts.
   When installing new parts, position each part so that the section measurement aligns to the standard dimensions.
- 3. After trial-fitting new parts, make sure the related parts fit properly.



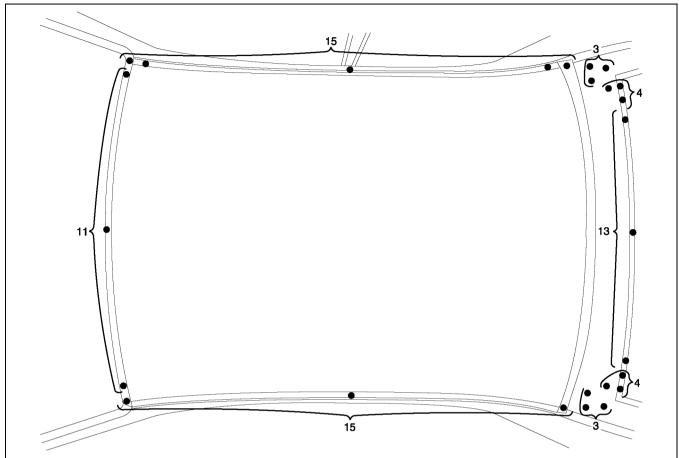
# ROOF PANEL REMOVAL

A6E981270600B01

**SEDAN**1. Remove the roof panel.



**5HB**1. Remove the roof panel.

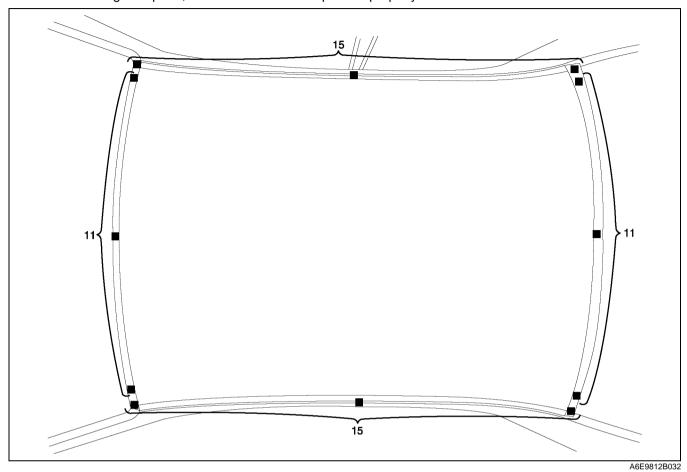


## **ROOF PANEL INSTALLATION**

A6E981270600B02

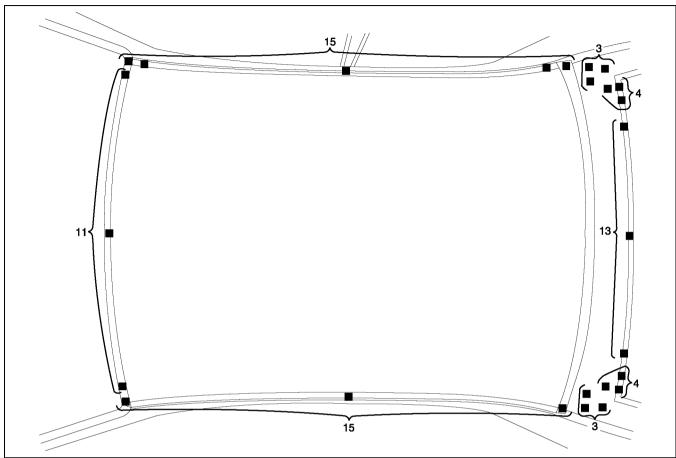
### **SEDAN**

- Drill holes for plug welds before installing new parts.
   After trial-fitting new parts, make sure the related parts fit properly.



## 5HB

- Drill holes for plug welds before installing new parts.
   After trial-fitting new parts, make sure the related parts fit properly.



#### IV

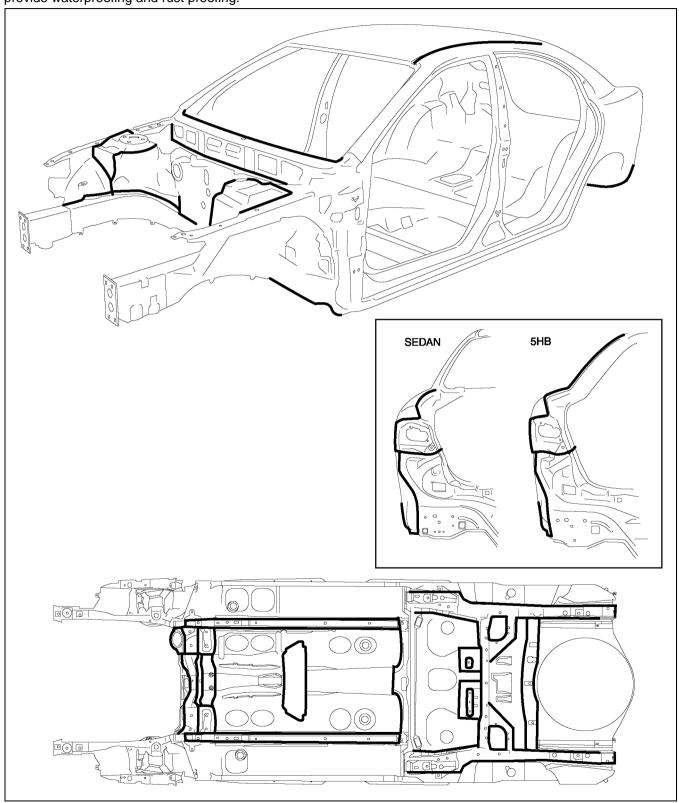
# WATER-PROOF AND RUST PREVENTIVE TREATMENT

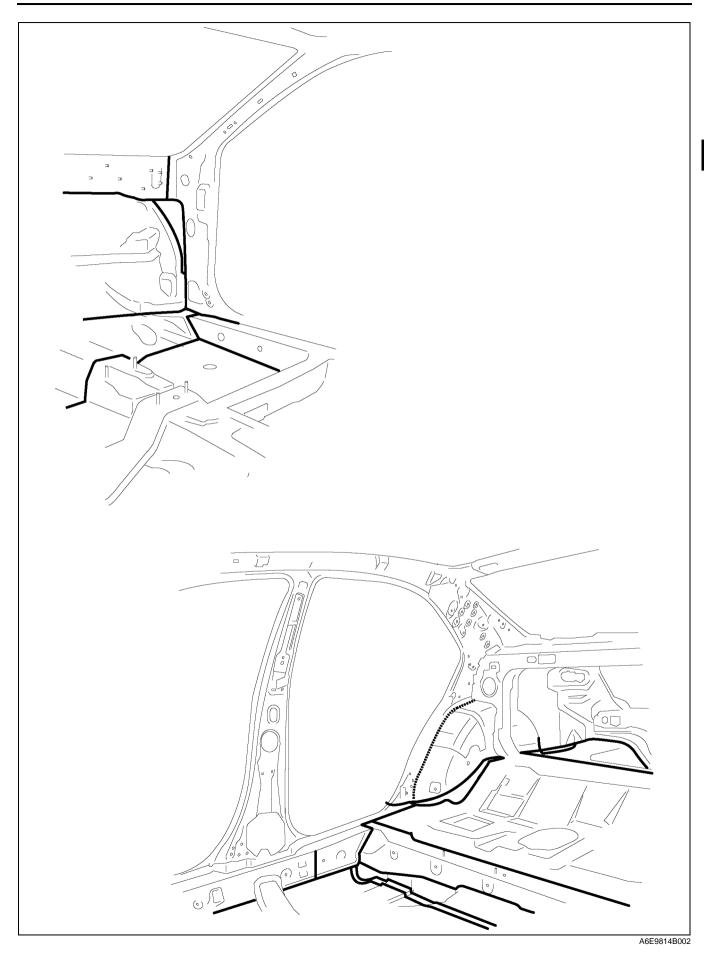
WATER-PROOF AND RUST PREVENTIVE	
TREATMENT	IV-2
BODY SEALING	IV-2
UNDER COATING	IV-5
PVC PAINTING	IV-6
RUST PREVENTIVE TREATMENT	IV-7

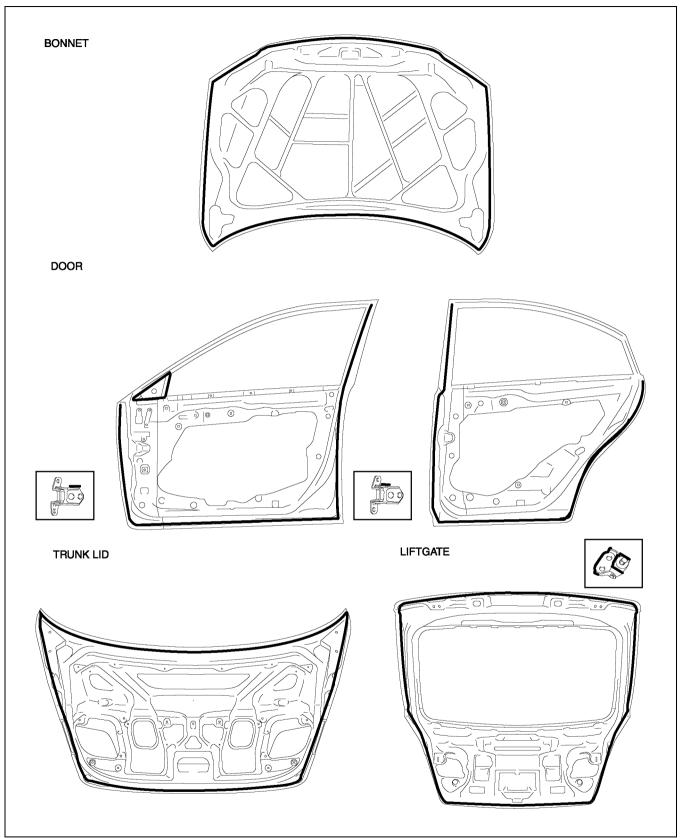
## WATER-PROOF AND RUST PREVENTIVE TREATMENT

#### **BODY SEALING**

Sealant is applied to the parts where the panels meet and to the hemmed parts of the door panel and bonnet to provide waterproofing and rust proofing.





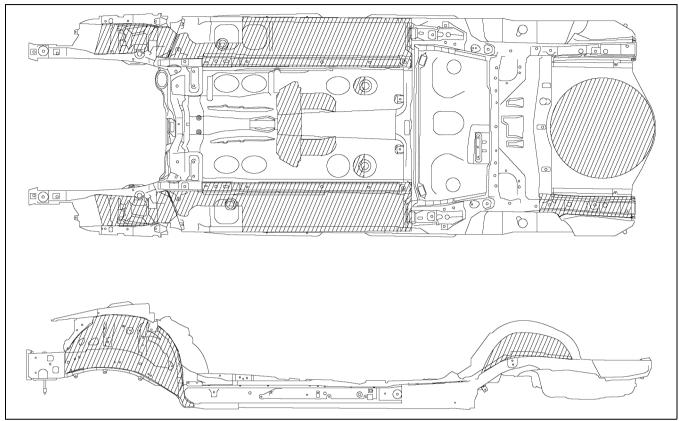


### **UNDER COATING**

The shaded areas indicated underbody locations that are undercoated to prevent noise and rusting.

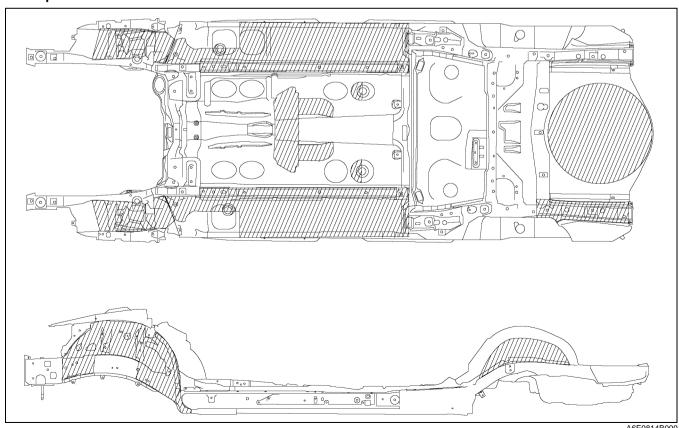
#### A6E981407000B02

## European(L.H.D. U.K.)specs



#### A6E9814B004

## GCC specs

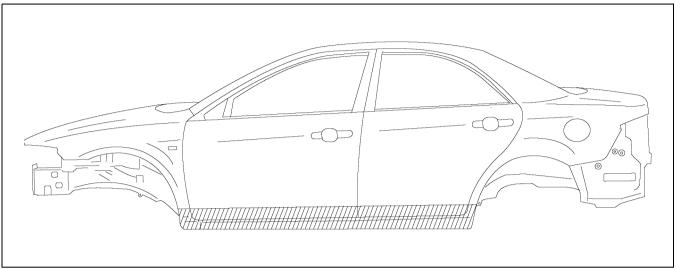


### **PVC PAINTING**

A6E981407000B04

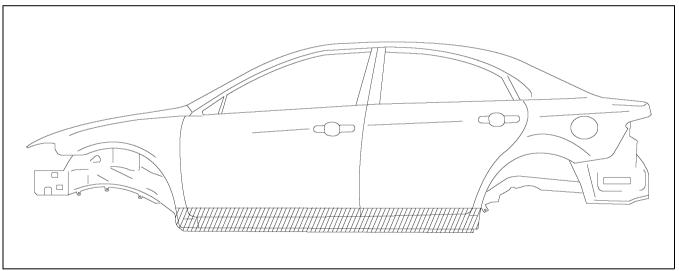
The coating locations are indicated by the shaded areas.

### **SEDAN**



A6E9814B005

### 5HB

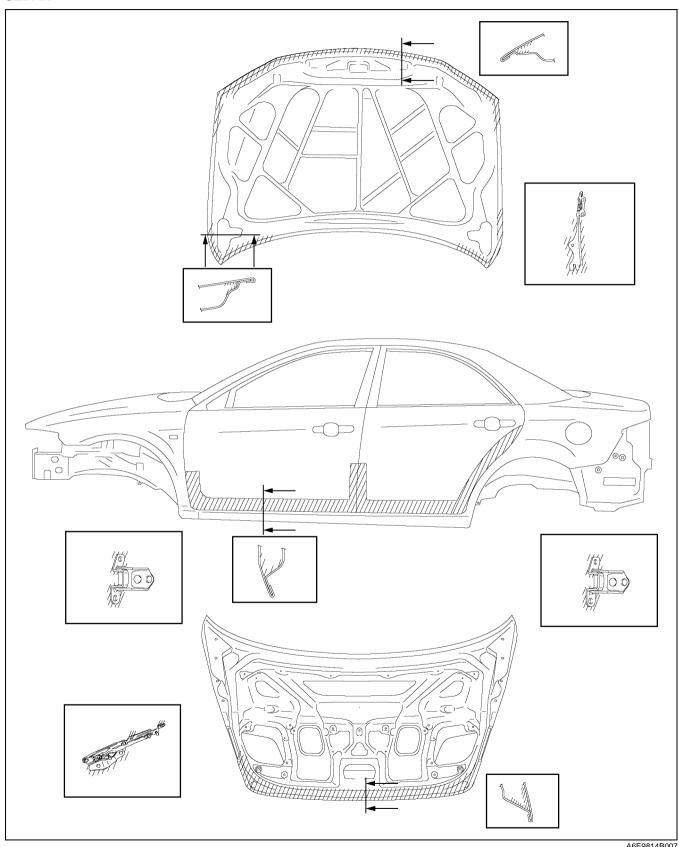


## **RUST PREVENTIVE TREATMENT**

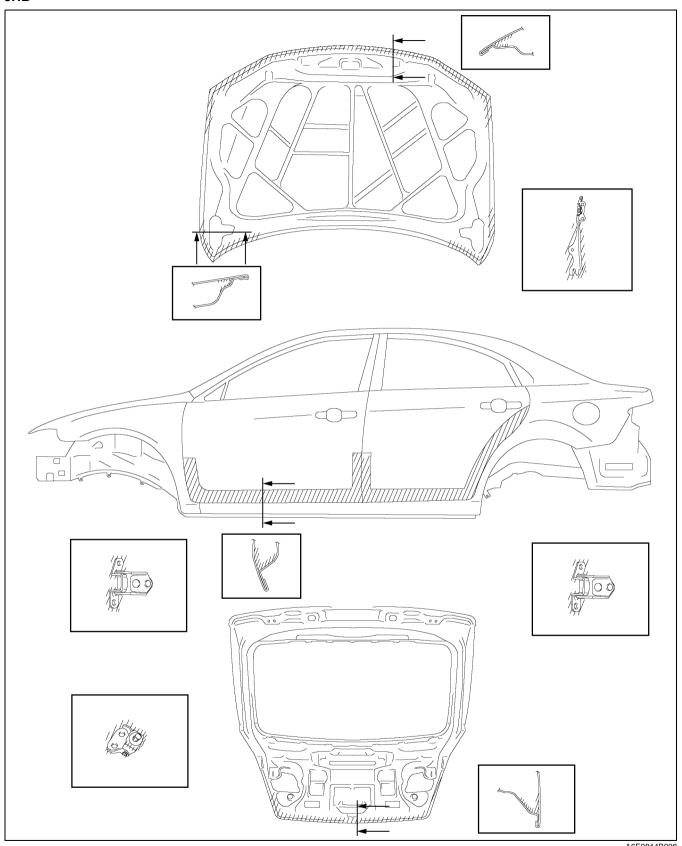
The coating locations are indicated by the shaded areas.

#### A6E981407000B03

### SEDAN



## 5HB



# **DIMENSIONS**

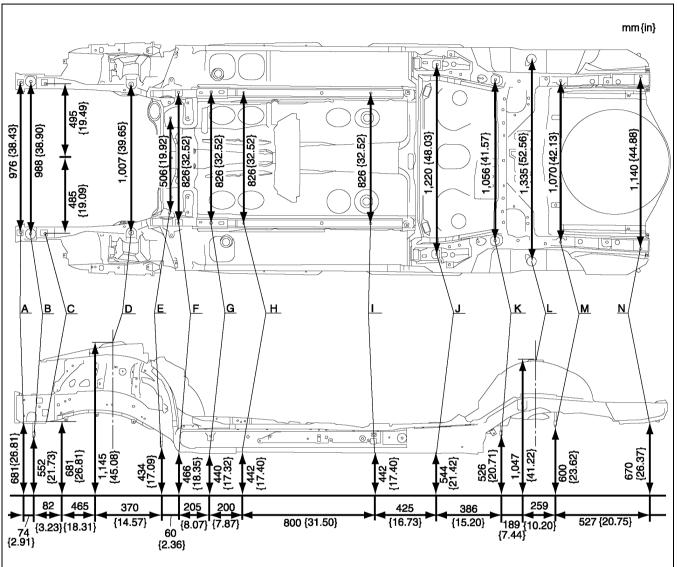
DIMENSIONS	V-2
UNDERBODY FLAT-PLANE DIMENSIONS	
UNDERBODY STRAIGHT-LINE	
DIMENSIONS	V-3
FRONT BODY STRAIGHT-LINE	
DIMENSIONS (1)	V-4
FRONT BODY STRAIGHT-LINE	
DIMENSIONS (2)	V-5
CABIN SIDE FRAME STRAIGHT-LINE	
DIMENSIONS	V-6
ROOM STRAIGHT-LINE DIMENSIONS (1)	V-8
ROOM STRAIGHT-LINE DIMENSIONS (2)	V-9
REAR BODY STRAIGHT-LINE DIMENSIONS	V-11

#### **DIMENSIONS**

#### **DIMENSIONS**

#### **UNDERBODY FLAT-PLANE DIMENSIONS**

A6E981653010B01

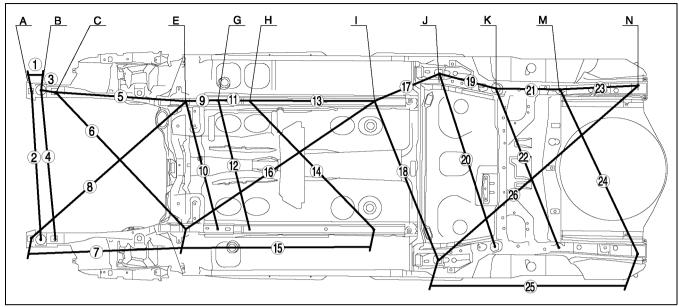


Point symbol	Designation	Hole diameter or bolt or nut size mm {in}
Α	Front side frame standard hole	ø16 {0.63}
В	Front crossmember mounting bolt	M14 {0.55}
С	Front side frame standard hole	ø16 {0.63}
D	Front suspension mounting block standard hole	ø59 {2.32}
Е	Front crossmember mounting bolt	M14 {0.55}
F	Front frame rear standard hole	ø18 {0.71}
G	Front frame rear standard hole	ø16 {0.63}
Н	Front B frame standard hole	ø12 {0.47}

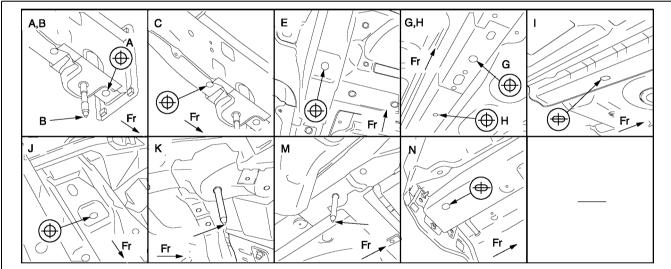
Point symbol	Designation	Hole diameter or bolt or nut size mm {in}
ı	Front B frame standard hole	14 × 20
'	Tioni Birame standard note	$\{0.55\times0.79\}$
J	Rear side frame standard hole	ø20 {0.79}
K	Rear crossmember mounting bolt	M14 {0.55}
L	Rear suspension housing bolt	M6 {0.24}
М	Rear crossmember mounting bolt	M14 {0.55}
N	Rear side frame standard hole	$16 \times 20$ $\{0.63 \times 0.79\}$
	iteal side frame standard fible	

#### **UNDERBODY STRAIGHT-LINE DIMENSIONS**

A6E981653010B02



A6E9816B002

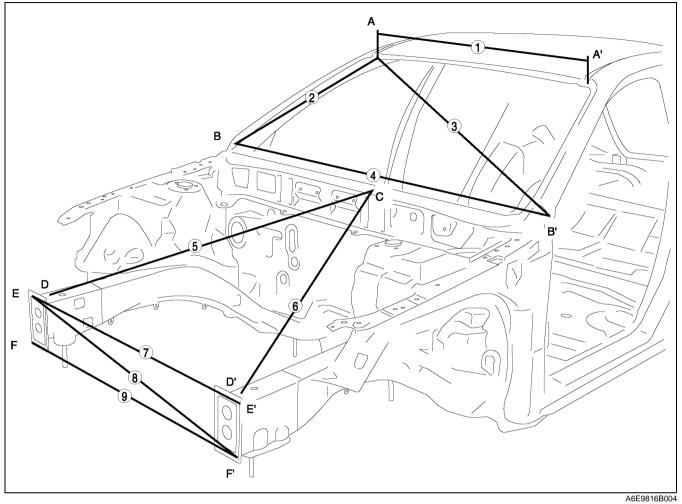


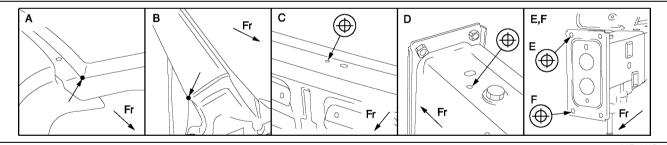
Measured location	Dimensions mm {in}
1	149 {5.87}
2	993 {39.09}
3	152 {5.98}
4	991 {39.02}
5	924 {36.38}
6	1,293 {50.91}
7	1,076 {42.36}
8	1,401 {55.16}
9	207 {8.15}
10	851 {33.50}
11	200 {7.87}
12	850 {33.46}
13	800 {31.50}

Measured location	Dimensions mm {in}
14	1,150 {45.28}
15	1,205 {47.44}
16	1,461 {57.52}
17	479 {18.86}
18	1,112 {43.78}
19	395 {15.55}
20	1,202 {47.32}
21	454 {17.87}
22	1,156 {45.51}
23	532 {20.94}
24	1,226 {48.27}
25	1,366 {53.78}
26	1,805 {71.06}

## FRONT BODY STRAIGHT-LINE DIMENSIONS (1)

A6E981653020B01

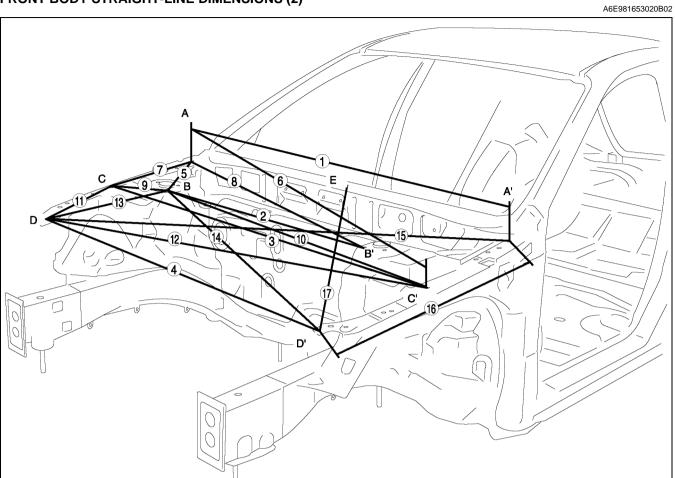




Measured location	Dimensions mm {in}
1	1,023 {40.28}
2	749 {29.49}
3	1,458 {57.40}
4	1,529 {60.20}
5	1,070 {42.13}

Measured location	Dimensions mm {in}
6	1,085 {42.72}
7	1,070 {42.13}
8	1,084 {42.68}
9	1,070 {42.13}

## FRONT BODY STRAIGHT-LINE DIMENSIONS (2)



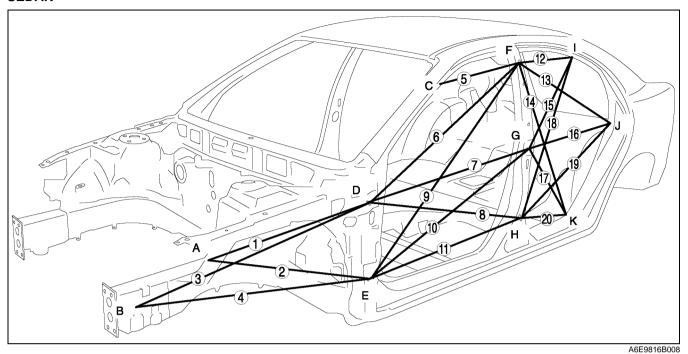
A6E9816B007

Measured location	Dimensions mm {in}
1	1,480 {58.27}
2	959 {37.76}
3	1,481 {58.31}
4	1,340 {52.76}
5	452 {17.80}
6	1,538 {60.55}
7	418 {16.46}
8	1,274 {50.16}
9	268 {10.55}

Measured location	Dimensions mm {in}
10	1,221 {48.07}
11	363 {14.29}
12	1,455 {57.28}
13	451 {17.76}
14	1,220 {48.03}
15	1,608 {63.31}
16	777 {30.59}
17	1,009 {39.72}

# CABIN SIDE FRAME STRAIGHT-LINE DIMENSIONS SEDAN

A6E981670010B01

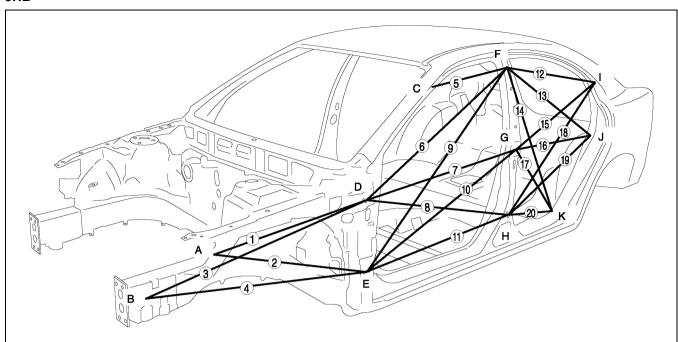


С В D Α E Fr  $\oplus$ 0  $\oplus$ **⊸** Fr Fr G  $\oplus$  $\oplus$ Fr Fr Fr Fr

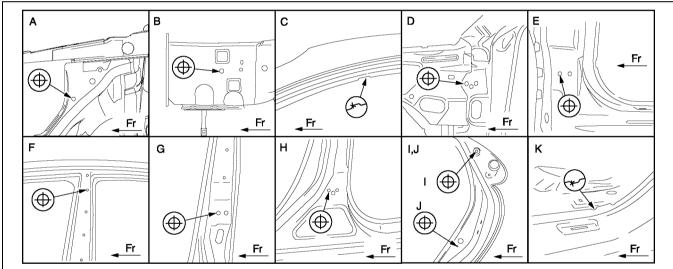
Measured location	Dimensions mm {in}
1	692 {27.24}
2	747 {29.41}
3	998 {39.29}
4	968 {38.11}
5	451 {17.76}
6	1,349 {53.11}
7	1,144 {45.04}
8	1,144 {45.04}
9	1,501 {59.09}
10	1,204 {47.40}

Measured location	Dimensions mm {in}
11	1,093 {43.03}
12	662 {26.06}
13	943 {37.13}
14	979 {38.54}
15	864 {34.02}
16	921 {36.26}
17	683 {26.89}
18	1,093 {43.03}
19	1,004 {39.53}
20	536 {21.10}

#### 5HB



A6E9816B010

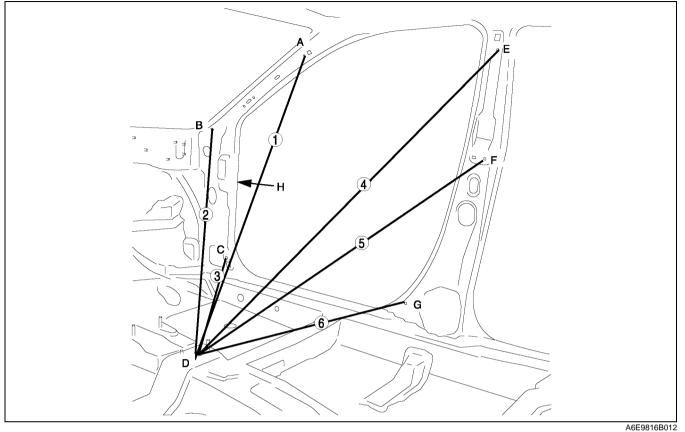


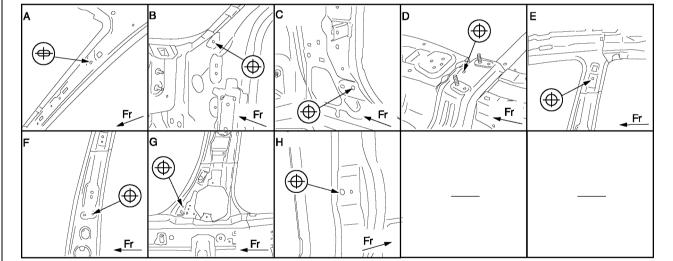
Measured location	Dimensions mm {in}
1	692 {27.24}
2	747 {29.41}
3	998 {39.29}
4	968 {38.11}
5	451 {17.76}
6	1,349 {53.11}
7	1,144 {45.04}
8	1,144 {45.04}
9	1,501 {59.09}
10	1,204 {47.40}

Measured location	Dimensions mm {in}
11	1,093 {43.03}
12	908 {35.75}
13	943 {37.13}
14	979 {38.54}
15	1,050 {41.34}
16	921 {36.26}
17	683 {26.89}
18	1,231 {48.46}
19	1,004 {39.53}
20	536 {21.10}

#### **ROOM STRAIGHT-LINE DIMENSIONS (1)**

A6E981670001B01



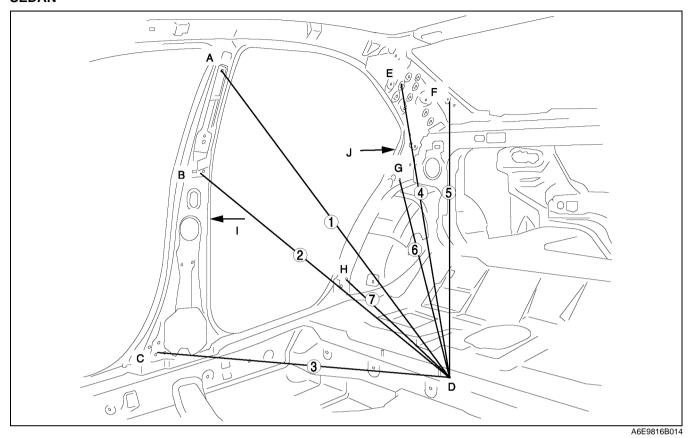


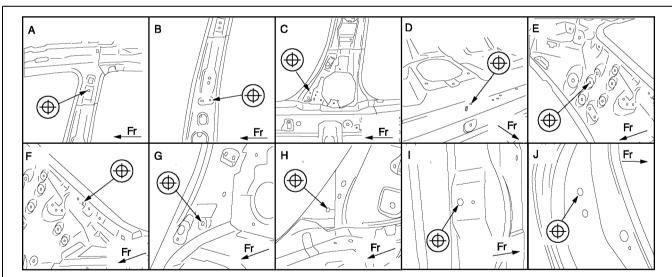
Measured location	Dimensions mm {in}
1	1,024 {40.31}
2	1,098 {43.23}
3	920 {36.22}
4	1,175 {46.26}

Measured location	Dimensions mm {in}
5	1,010 {39.76}
6	767 {30.20}
H-H'	1,487 {58.54}

# ROOM STRAIGHT-LINE DIMENSIONS (2) SEDAN

A6E981670001B02



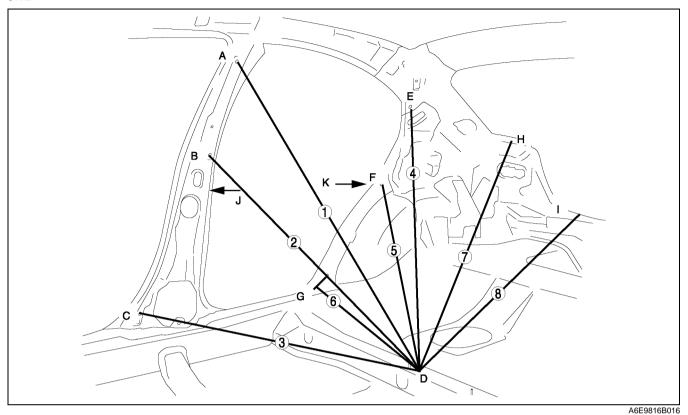


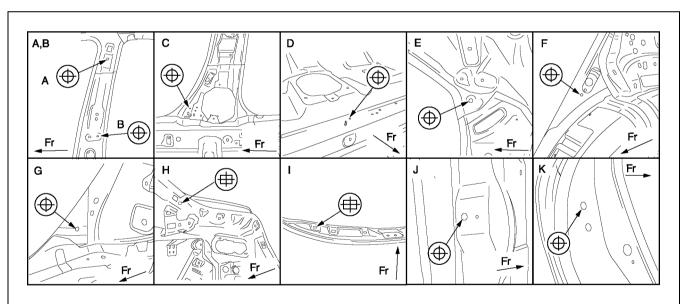
Measured location	Dimensions mm {in}
1	RH:1,141 {44.92}, LH:1,104 {43.46}
2	RH:996 {39.21}, LH:946 {37.24}
3	RH:952 {37.48}, LH:897 {35.31}
4	RH:1,193 {46.97}, LH:1,157 {45.55}
5	RH:1,285 {50.59}, LH:1,252 {49.29}

Measured location	Dimensions mm {in}
6	RH:1.079 {42.48}, LH:1,030 {40.55}
7	RH:833 {32.80}, LH:767 {30.20}
I-l'	1,584 {62.36}
J-J'	1,557 {61.30}

## **DIMENSIONS**

#### 5HB



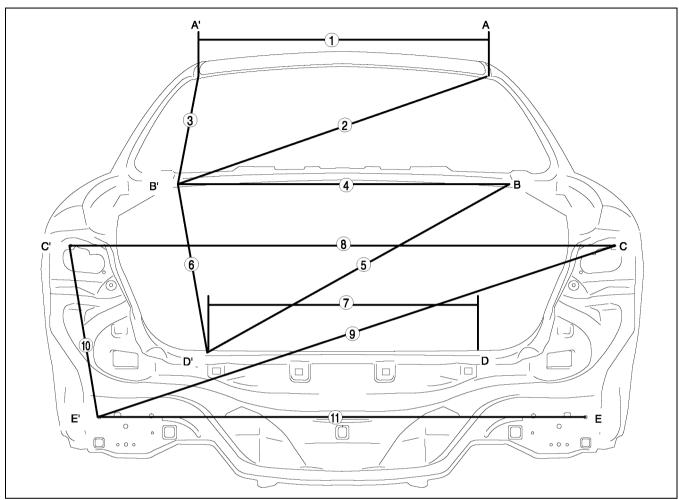


Measured location	Dimensions mm {in}
1	RH:1,141 {44.92}, LH:1,104 {43.46}
2	RH:996 {39.21}, LH:946 {37.24}
3	RH:952 {37.48}, LH:897 {35.31}
4	RH:1,204 {47.40}, LH:1,166 {45.91}
5	RH:1,027 {40.43}, LH:976 {38.43}

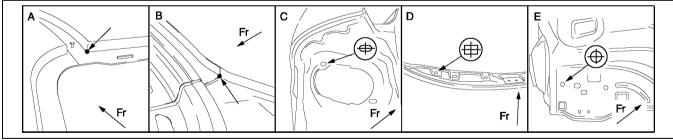
Measured location	Dimensions mm {in}
6	RH:833 {32.80}, LH:767 {30.20}
7	RH:1,402 {55.20}, LH:1,374 {54.09}
8	RH:1,671 {65.79}, LH:1,657 {65.24}
J-J'	1,584 {62.36}
K-K'	1,557 {61.30}

# REAR BODY STRAIGHT-LINE DIMENSIONS SEDAN

A6E981670002B01



A6E9816B018

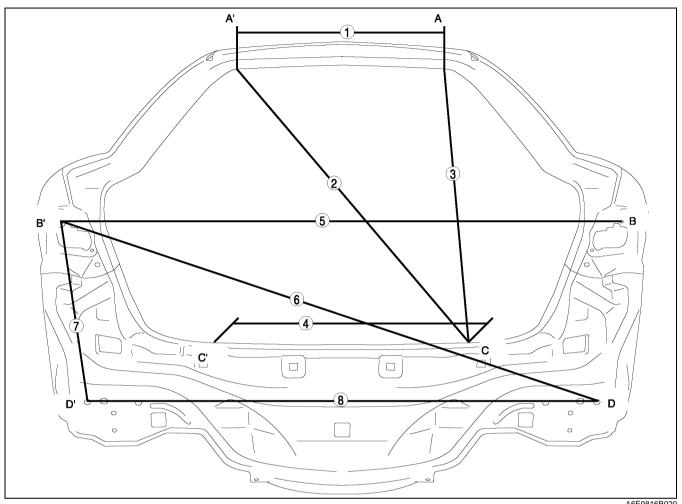


Measured location	Dimensions mm {in}
1	1,013 {39.88}
2	1,273 {50.12}
3	826 {32.52}
4	928 {36.54}
5	969 {38.15}
6	555 {21.85}

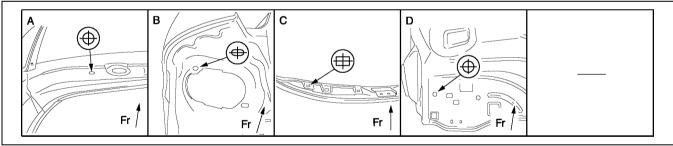
Measured location	Dimensions mm {in}
7	680 {26.77}
8	1,402 {55.20}
9	1,388 {54.65}
10	452 {17.80}
11	1,228 {48.35}

## **DIMENSIONS**

## 5HB



A6E9816B020



Measured location	Dimensions mm {in}
1	700 {27.56}
2	1,436 {56.54}
3	1,260 {49.61}
4	680 {26.77}

Measured location	Dimensions mm (in)
5	1,402 {55.20}
6	1,388 {54.65}
7	452 {17.80}
8	1,228 {48.35}

#### V

# **PLASTIC BODY PARTS**

PLASTIC BODY PARTS	VI-2
PLASTIC PARTS HEAT RESISTING	
TEMPERATURE	VI-2
REPAIRABLE RANGE OF	
POLYPROPYLENE BUMPERS	VI-3
POLYPROPYLENE BUMPER REPAIR	VI-4
PROCEDURE	VI-5

## **PLASTIC BODY PARTS**

#### PLASTIC PARTS HEAT RESISTING TEMPERATURE

A6E981850000B01

Part Name		Code	Material Name	Heat resisting TemperatureC°{F°}
WINDSHIELD MOULDING		PVC	POLYVINYLCHLORIDE	95 {203}
COWL GRILLE		PP	POLYPROPYLENE	95 {203}
FRONT COMBINATION	LENS	PC	POLYCARBONATE	130 {266}
LIGHT	HOUSING	PBT	PBT	120 {248}
	GRILLE	ABS	ABS	90 {194}
RADIATOR GRILLE	REINFORCE- MENT	PP	POLYPROPYLENE	95 {203}
FRONT BUMPER		PP	POLYPROPYLENE	100 {212}
FRONT SIDE TURN	LENS	PMMA	ACRYLIC	75 {167}
LIGHT	HOUSING	PC-PBT	POLYPROPYLENE-PBT	120 {248}
	HOUSING	ABS	ABS	95 {200}
	BASE	PBT	PBT	200 {395}
OUTSIDE MIRROR	BLACK	AES	AES	75 {167}
	BODY COLOR	ABS	ABS	90 {194}
	MIRROR HOLDER	PP	POLYPROPYLENE	50 {122}
REAR COMBINATION	LENS	PMMA	ACRYLIC	80 {167}
LIGHT	HOUSING	AES	AES	70 {158}
REAR BUMPER		PP	POLYPROPYLENE	100 {212}
REAR FINISHER		ABS	ABS	90 {194}
HIGH-MOUNT BRAKE LIGHT(5HB)		PC	POLYCARBONATE	130 {266}
ROOF MOULDING		PVC	POLYVINYLCHLORIDE	95 {203}
BELTLINE MOLDING		PVC	POLYVINYLCHLORIDE	95 {203}
REAR SPOILER		ABS	ABS	90 {194}
SHROUD PANEL		PP	POLYPROPYLENE	100 {212}

#### Note

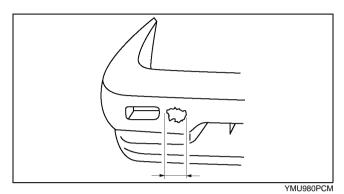
• The application of temperatures higher then heat resisting temperatures may result in part deformation.

#### REPAIRABLE RANGE OF POLYPROPYLENE BUMPERS

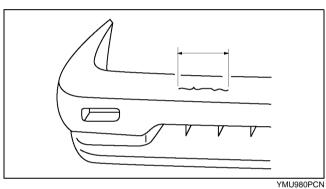
The three types of damaged bumpers shown below are considered repairable. Although a bumper which has been damaged greater than this could also be repaired, it should be replaced with a new one because such repair would detract from the looks and quality of the bumper. In addition, such repair is not considered reasonable in terms of work time.

#### **Repairable Bumpers**

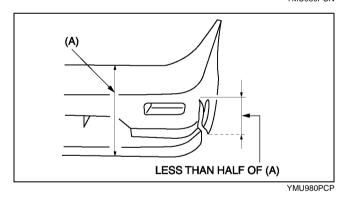
1. A bumper with a hole less than 50 mm {1.97 in} in



2. A bumper with a crack less than 100 mm {3.94 in} in length.

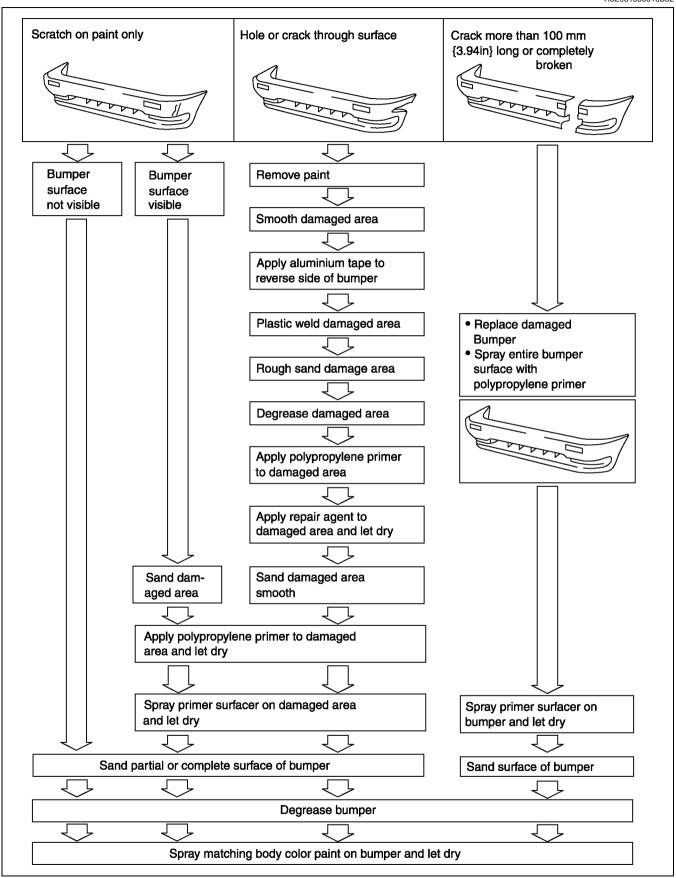


3. A bumper with a crack less than 100 mm {3.94 in} in length that is less than half of the width of the bumper.



#### POLYPROPYLENE BUMPER REPAIR

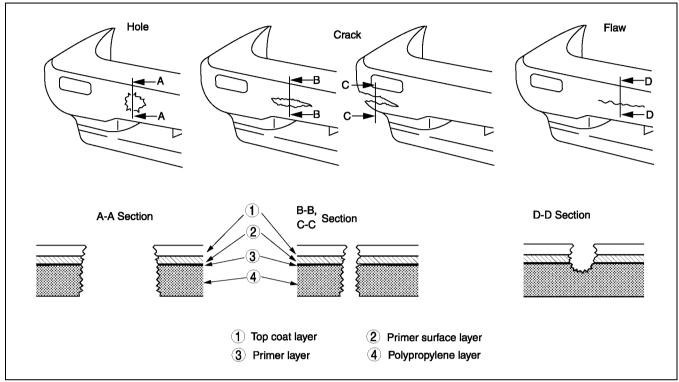
A6E981850010B02



YMU980PCQ

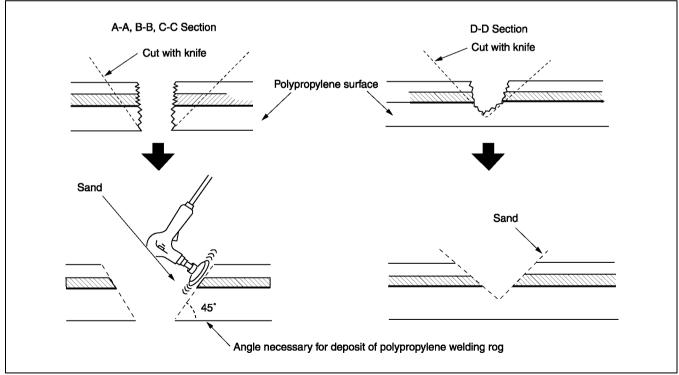
#### **PROCEDURE**

Repair of polypropylene bumpers having damage that has reached the surface of the polypropylene and are too serious to be restored by painting only.



ZUA9818B001

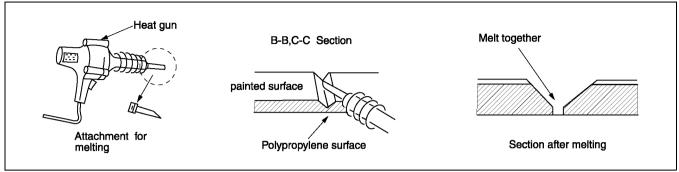
1. Cut the rough edges around the damage with a knife to make it smooth. Sand the area with a sander to make an angle of about 45°.



ZUA9818B002

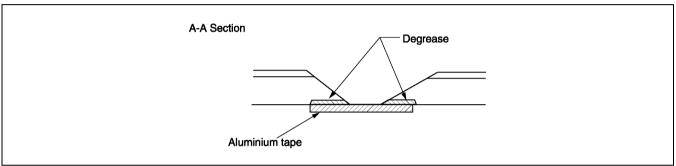
#### 2. Weld the damaged area.

• For repair of a cracked area, melt the crack together with a heat gun and a melting attachment.



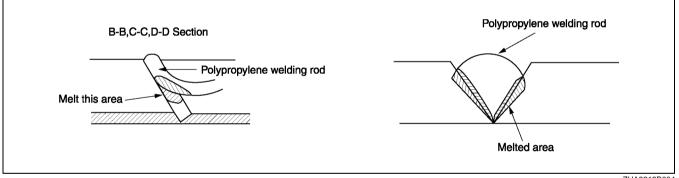
ZUA9818B003

• For repair of a hole, degrease the area on both sides of the bumper and apply aluminium tape on the reverse side of the damage area.



ZUA9818B005

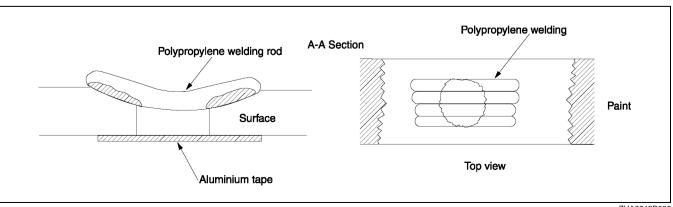
3. Melt the polypropylene welding rod with a heat gun and deposit it the cracked area.



ZUA9818B004

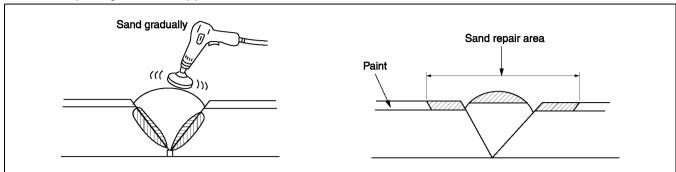
#### Note

- · Heat the shaded area to melt it.
- Take care not to overlay melt welding rod. If the part is welded with the welding rod melted like jelly, the welding strength will be reduced.
- Hold the heat gun 10—20 mm {0.39—0.79 in} from the part being welded.
- Do not move the welding rod until the welded parts cool.



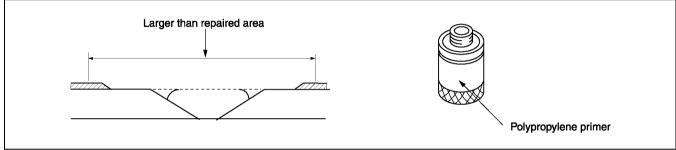
ZUA9818B006

4. Sand the surface of the polypropylene gradually as it is easily melted by the abrasion heat. Sand the area to which repair agent will be applied.



YMU980PCX

5. Uniformly apply polypropylene primer with a brush to an area larger than the repaired area. Allow to dry about 10 minutes at 20 °C {68 °F}.

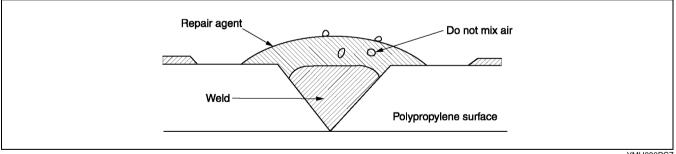


YMU980PCY

6. Mix the main agent and the stiffening agent in a ratio of one to one. Apply the mixed repair agent to the damaged area.

#### Note

- When mixing the main and stiffening agents, take care not to allow bubbles to form.
- The repair agent hardens quickly (about 5 minutes); proceed with the work immediately after mixing the agents.
- Allow about 30 minutes to dry (20 °C {68 °F}) before sanding.



YMU980PCZ

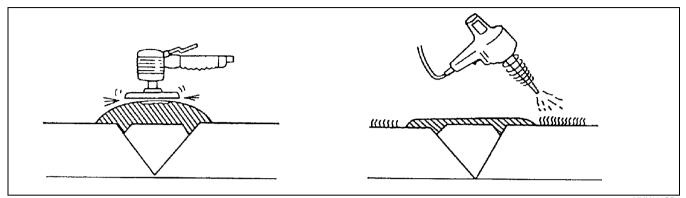
The repair agent is a two part epoxy adhesive.

When the repair agent hardens, it will provide a good finish with the same flexibility as the polypropylens. The repair agent for a **urethane** bumper is also a two part adhesive compound. However, this is different from that for a polypropylene bumper. If the incorrect repair agent is used, the repair will be faulty.

7. Sand the area with #180—240 sandpaper.

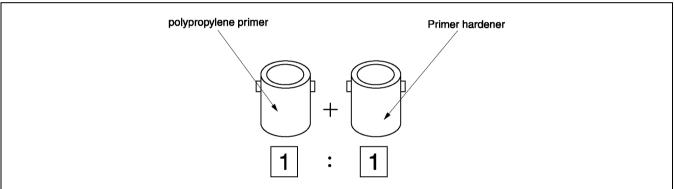
#### Note

- If excessive force is applied to the area when sanding, the surface will be damaged.
- If fuzz remains around the repaired area, melt it with a heat gun.



YMU980PD0

- 8. Degrease the painted surface.
- 9. Mix the primer and the hardener at a ratio of one to one. Apply the primer to the repaired area and the surface of the bumper with a brush or spray.



YMU980PD1

Use the primer within 16 hours after it is mixed.

#### Note

- Polypropylene primer will dissolve even after drying if it is wiped with solvent. Use only water to clean around the primer.
- 10. Allow the part to dry.

- 11. Add the softener to the urethane primer surfacer and spray it on the repaired area.
  - a. Mixing method

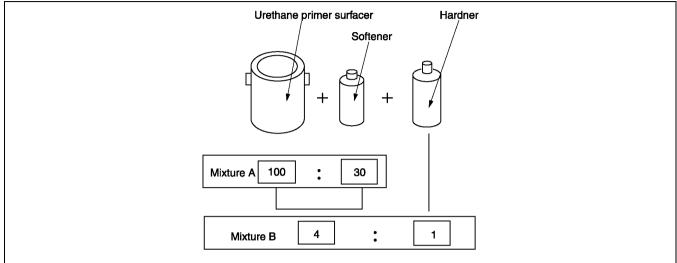
Urethane primer surfacer + Softener..... Mixture A

Mixture A + hardener..... Mixture B

Dilute mixture B with thinner to spray on bumper

b. Viscosity

14—16 seconds/viscosimeter 20 °C {68 °F}



YMU980PD2

#### Note

- Mix the solutions at the specified ratio.
- c. Spray pressure

300-400 kPa {3-4 kgf/cm<sup>2</sup>, 43-57 psi}

- d. Standard film thickness
  - $30-40 \mu$
- e. Spray method

Spot-spray primer surfacrer on bumper three of four times

12. Air drying 20 °C {68 °F} — 8 hours minimum.

Forced drying 60 °C {140 °F} — 1 hour

- 13. Lightly sand the complete surface of the bumper with #400—#600 sandpaper. Do not expose the surface of the polypropylene. (Wet or dry sanding is acceptable.)
- 14. Wipe the complete surface of the bumper with degreasing agent. Quickly wipe the surface with a clean rag to degrease it.
- 15. Apply a matching coat of body color to the polypropylene bumper.

#### Note

- Be sure to use only urethane primer for a urethane bumper and polypropylene primer for a polypropylene bumper. Other paints for repairing a polypropylene bumper are the same as those for the urethane bumper.
- 16. Air drying 20 °C  $\{68 \text{ °F}\}$  8 hours minimum. Forced drying 60 °C  $\{140 \text{ °F}\}$  1 hour

#### Note

• Let the part air dry when possible as forced drying could cause bubbles in the top coat.

#### ۷I

PRIMARY COLOR MIXTURE CHART FOR BODY COLORS	VII-2
PRIMARY COLOR MIXTURE CHART FOR	
BODY COLORS	\/II-2

## PRIMARY COLOR MIXTURE CHART FOR BODY COLORS

#### PRIMARY COLOR MIXTURE CHART FOR BODY COLORS

A6E982089000B01

- This is the primary color mixture chart for body colors.
- Please use the paint available in your country.
  A blank column indicates that there is no primary color available.

#### **AKZO**

			KIND OF PAINT	POLYXITHANE/POLYURETHANE	
COLOR	COLOR NAME		LABEL	AUTOBASE	AUTOCRYL
CODE			INGREDIENTS	CC/CC g{oz}	CC/CC g{oz}
		956	VIOLET-RED TRANSPARENT		537.0 {18.94}
		559	RED OXIDE		544.2 {19.20}
405		528	RED MAROON TRANSPARENT		621.4 {21.92}
A3E	CLASSIC RED CLE	359	BRILLIANT RED	777.7 {27.43}	989.8 {34.91}
		00	WHITE	778.2 {27.45}	
		744	MIXING BLACK	781.9 {27.58}	
		538	BRIGHT MAROON TRANSPARENT	989.9 {34.92}	
		00	WHITE	1,172.5 {41.36}	1,283.0 {45.26}
		558	LIGHT OXIDE YELLOW	1,173.9 {41.41}	
		744	MIXING BLACK	1,175.5 {41.46}	
A4D	ARCTIC WHITE CLE	971	VIOLET TRANSPARENT		1,283.6 {45.28}
		904	DARK BLUE		1,284.5 {45.31}
		744	MIXING BLACK		1,286.3 {45.37}
		558	LIGHT OXIDE YELLOW		1,292.5 {45.59}
	BLACK MC	400	DEEP BLACK	454.3 {16.02]	
		334YA	YELLOW GOLD PALIOCROM	457.2 {16.13}	
		333DF	SILVER DOLLAR FINE	476.4 {16.80}	
16W		777	LIGHT GRAY TRANSPARENT	540.6 {19.07}	
		505	RED SEMI- TRANSPARENT	614.4 {21.67}	
		261	BRIGHT BLUE TRANSPARENT	958.5 {33.81}	
		732	DARK GREEN TRANSPARENT	545.1 {19.23}	
		333M	MIXING METALLIC MEDIUM COARSE	550.9 {19.43}	
		777	LIGHT GRAY TRANSPARENT	565.6 {19.95}	
18J	GRACE GREEN MC	575	BLUE TRANSPARENT	603.9 {21.30}	
	GRACE GREEN WIC	333PG	YELLOW(GOLD)PEARL- EFFECT MIXING COLOR	642.2 {22.65}	
		400	DEEP BLACK	755.6 {26.65}	
		333P	WHITE PEARL-EFFECT MIXING COLOR	870.9 {30.72}	
		952	DARK RED OXIDE TRANSPARENT	996.6 {35.15}	

			KIND OF PAINT	POLYXITHANE/P	OLYURETHANE
COLOR	COLOR NAME		LABEL	AUTOBASE	AUTOCRYL
CODE	COLOR NAME	INGREDIENTS		CC/CC g{oz}	CC/CC g{oz}
		333DC	SILVER DOLLAR METALLIC COARSE	479.9 {16.93}	
		952	DARK RED OXIDE TRANSPARENT	493.8 {17.42}	
24E	SPARKLING SILVER M	777	LIGHT GRAY	526.2 {18.56}	
		977	DARK OXIDE YELLOW	560.9 {19.78}	
		666	CORRECTION BINDER	676.8 {23.87}	
		333EC	MIXING METALLIC EXTRA COARSE	978.2 {34.50}	
		261	BRIGHT BLUE TRANSPARENT	496.5 {17.51}	
		777	LIGHT GRAY	506.2 {17.86}	
		400	DEEP BLACK	537.5 {18.96}	
25B	BLUE PACIFIC MC	333CC	MIXING METALLIC VERY COARSE	581.9 {20.53}	
		341	BLUE GREEN	630.2 {22.23}	
		971	VIOLET TRANSPARENT	724.6 {25.56}	
		333PB	BLUE PEARL-EFFECT MIXING COLOR	966.1 {34.08}	
			FIRST COAT		
		297	LIGHT YELLOW	521.4 {18.39}	
		744	MIXING BLACK	525.2 {18.53}	
		360	RED OXIDE	542.4 {19.13}	
		361	RED YELLOW	607.0 {21.41}	
		00	WHITE	1,077.2 {38.00}	
25C	CANARY YELLOW MC		SECOND COAT		
		666	CORRECTION BINDER	746.4 {26.33}	
		332XS	XIRALLIC CRYSTAL SILVER	794.2 {28.01}	
		332XG	XIRALLIC SUNBEARN GOLD	861.2 {30.38}	
		777	LIGHT GRAY	956.9 {33.75}	
			FIRST COAT		
		00	WHITE	1,172.7 {41.37}	
		744	MIXING BLACK	1,174.2 {41.42}	
		558	LIGHT OXIDE YELLOW	1,175.6 {41.47}	
0.5.0	SNOWFLAKE WHITE		SECOND COAT		
25D	PEARL MC	332XS	XIRALLIC CRYSTAL SILVER	481.3 {16.98}	
		332XG	XIRALLIC SUNBEARN GOLD	529.4 {18.67}	
		777	LIGHT GRAY	649.7 {22.92}	
		666	CORRECTION BINDER	962.5 {33.95}	
		332VA	VIOLET PEARL	390.6 {13.78}	
25E		777	LIGHT GRAY	401.1 {14.15}	
		956	VIOLET-RED TRANSPARENT	425.1 {14.99}	
	STRATO BLUE MC	261	BRIGHT BLUE TRANSPARENT	507.7 {17.91}	
		333PB	BLUE PEARL-EFFECT MIXING COLOR	612.9 {21.62}	
		400	DEEP BLACK	736.1 {25.96}	
		341	BLUE GREEN	973.5 {34.34}	

			KIND OF PAINT	POLYXITHANE/P	OLYURETHANE
COLOR CODE	COLOR NAME		LABEL	AUTOBASE	AUTOCRYL
	OOLON WAIME		INGREDIENTS	CC/CC g{oz}	CC/CC g{oz}
		334XR	XIRALLIC RADIANT RED	352.2 {12.42}	
		400	DEEP BLACK	378.8 {13.36}	
25F	GARNET RED MC	538	BRIGHT MAROON TRANSPARENT	449.2 {15.84}	
251	GARNET RED INC	777	LIGHT GRAY	543.1 {19.16}	
		956	VIOLET-RED TRANSPARENT	746.6 {26.34}	
		262	RED TRANSPARENT	973.5 {34.34}	
	TITANIUM GRAY M	333DC	SILVER DOLLAR METALLIC COARSE	409.9 {14.46}	
		777	LIGHT GRAY	429.5 {15.15}	
25G		261	BRIGHT BLUE TRANSPARENT	472.3 {16.66}	
		744	MIXING BLACK	639.3 {22.55}	
		333PR	RED PEARL-EFFECT MIXING COLOR	982.3 {34.65}	
		333DC	SILVER DOLLAR METALLIC COARSE	965.4 {34.05}	
25H		777	LIGHT GRAY	967.1 {34.11}	
	SILVER CONTRAIL M	101	OPAL	971.4 {34.26}	
		400	DEEP BLACK	977.8 {34.49}	
		732	DARK GREEN TRANSPARENT	986.1 {34.78}	

## E.I.du pont de nemours &Co.(Inc.)

			KIND OF PAINT	POLYXI	THANE/POLYURE	THANE
COLOR	COLOR NAME		LABEL	CRONAR	CRONAR	-
CODE	OCEON NAME	INGREDIENTS		CENTARI 6000 g{oz}	CENTARI 600 g{oz}	CENTARI 500 g{oz}
		AM 64	MAGENTA	240.4 {8.48}	184.1 {6.49}	
	01 40010 DED	AM 50	BRILLIANT RED	440.7 {15.54}	337.4 {11.90}	
A3E	CLASSIC RED CLE	AM 66	RED VIOLET	460.7 {16.25}	352.8 {12.44}	
	022	AM 150	BINDER		935.6 {33.00}	
		XB 155	M.S. BINDER	950.4 {33.52}		
		AM1	WHITE H.S.	663.9 {23.42}	622.3 {21.95}	
	ARCTIC WHITE	AM7	BLACK L.S.	677.4 {23.89}	635.0 {22.40}	
A4D	CLE	AM82	YELLOW OXIDE L.S.	679.3 {23.96}	636.8 {22.46}	
	022	AB 150	B/C BALANCER		1,167.0 {41.16}	
		XB 155	M.S. BINDER	1,187.8 {41.90}		
		AM6	BLACK H.S.		174.4 {6.15}	
		4530S	FLOP CONTROL AGENT		252.9 {8.92}	
16W	BLACK MC	AM14	COARSE ALUMINIUM		255.1 {9.00}	
1000	BLACK IVIC	AM74	BLUE PEARL		263.6 {9.30}	
		AB150	B/C BALANCER		772.8 {27.26}	
		1B160	BINDER		925.6 {32.65}	
		AM27	TRANSPARENT BLUE	94.9 {3.35}		
		AM32	GREEN	170.5 {6.01}		
	GRACE GREEN MC	AM5	JET BLACK	235.6 {8.31}		
401		4530S	FLOP CONTROL AGENT	287.4 {10.14}		
18J		AM75	SUPER GREEN PEARL	326.2 {11.51}		
		AM76	GOLD PEARL	341.8 {12.06}		
		XB155	M.S. BINDER	715.5 {25.24}		
		XB165	M.S. BINDER	950.2 {33.52}		
		AM95	BR COARSE ALUMINIUM	127.6 {4.50}	110.2 {3.89}	
		AM11	MEDIUM ALUMINIUM	185.8 {6.55}	160.4 {5.66}	
		AM90	TRANSOXIDE YELLOW	206.9 {7.30}	178.7 {6.30}	
		AM91	TRANSOXIDE RED	214.4 {7.56}	185.2 {6.53}	
24E	SPARKLING	AM2	WHITE L.S.	219.3 {7.74}	189.4 {6.68}	
240	SILVER M	AM5	JET BLACK	221.8 {7.82}	191.5 {6.75}	
		AB150	B/C BALANCER		546.6 {19.28}	
		AB160	BINDER		945.5 {33.35}	
		XB155	M.S. BINDER	436.5 {15.40}		
		XB165	M.S. BINDER	958.0 {33.79}		
		AM27	TRANSPARENT BLUE	239.0 {8.43}	194.6 {6.86}	
		AM74	BLUE PEARL	347.8 {12.27}	283.2 {9.99}	
		AM62	TRANSPARENT RED	422.6 {14.91}	344.1 {12.14}	
	DI LIE DAGIEIG	4530S	FLOP CONTROL AGENT	466.0 {16.44}	379.4 {13.38}	
25B	BLUE PACIFIC MC	AM29	LIGHT BLUE	484.7 {17.10}	394.6 {13.92}	
	IVIO	AM5	JET BLACK	500.6 {17.66}	407.6 {14.38}	
		AM17	BRIGHT-FINE ALUMINIUM	503.1 {17.75}	409.5 {14.44}	
		AB 150	B/C BALANCER		941.3 {33.20}	
		XB 155	M.S. BINDER	952.3 {33.59}		
25C	CANARY YELLOW MC		ontact with your distributor or s ready to provide the special			as a ready-to-use

			KIND OF PAINT	POLYXI	THANE/POLYURE	THANE
COLOR	COLOR NAME		LABEL	CRONAR	CRONAR	-
CODE	COLOR NAME	INGREDIENTS		CENTARI 6000 g{oz}	CENTARI 600 g{oz}	CENTARI 500 g{oz}
	SNOWFLAKE@	AM1	WHITE H.S.		655.7 {23.13}	
	WHITE PEARL MC COLOR BASE	AB150	B/C BALANCER		1,186.9 {41.87}	
25D	SNOWFLAKE	M8819	SILVER CRYSTAL(FAC PAC)		844.7 {29.80}	
	WHITE PEARL	4530S	FLOP CONTROL AGENT		930.9 {32.84}	
	MC	AM2	WHITE L.S.		936.9 {33.05}	
	PEARL BASE	AM7	BLACK L.S.		937.9 {33.08}	
		AM70	FAST BLUE L.S.		938.3 {33.10}	
		AM27	TRANSPARENT BLUE	144.2 {5.09}	116.5 {4.11}	
		AM79	VIOLET PEARL	243.1 {8.57}	196.5 {6.93}	
		AM74	BLUE PEARL	314.2 {11.08}	253.9 {8.96}	
055	STRATO BLUE	AM5	JET BLACK	376.3 {13.27}	304.1 {10.73}	
25E	MC	AM20	VIOLET	432.9 {15.27}	349.8 {12.34}	
		AM66	RED VIOLET	485.1 {17.11}	392.0 {13.83}	
		AB 150	B/C BALANCER		948.9 {33.47}	
		XB 155	M.S. BINDER	962.3 {33.94}		
		AM64	MAGENTA	228.7 {8.07}	186.5 {6.58}	
		AM85	TRANS MAROON	331.6 {11.70}	270.4 {9.54}	
	GARNET RED MC	4530S	FLOP CONTROL AGENT	397.2 {14.01}	323.9 {11.43}	
		AM76	GOLD PEARL	422.4 {14.90}	344.4 {12.15}	
25F		AM94	EXTRA COARSE ALUMINUM	434.7 {15.33}	354.5 {12.50}	
		AM5	JET BLACK	443.9 {15.66}	362.0 {12.77}	
		AM2	WHITE L.S.	452.2 {15.95}	368.7 {13.01}	
		AB 150	B/C BALANCER		939.1 {33.13}	
		XB 155	M.S. BINDER	949.9 {33.51}		
		AM95	BR COARSE ALUMINIUM	89.6 {3.16}	83.6 {2.95}	
		AM5	JET BLACK	140.6 {4.96}	131.1 {4.62}	
		AM28	FAST BLUE H.S.	157.4 {5.55}	146.8 {5.18}	
		AM20	VIOLET	171.5 {6.05}	159.9 {5.64}	
250	TITANIUM GRAY	AM84	RED OXIDE L.S.	184.9 {6.52}	172.5 {6.08}	
25G	М	AM2	WHITE L.S.	197.2 {6.96}	183.9 {6.49}	
		AB 150	B/C BALANCER		597.3 {21.07}	
		AB 160	BINDER		933.8 {32.94}	
		XB 155	M.S. BINDER	424.6 {14.98}		
		XB 165	M.S. BINDER	943.5 {33.28}		
		AM95	BR COARSE ALUMINIUM	155.2 {5.47}	131.8 {4.65}	
		4530S	FLOP CONTROL AGENT	172.4 {6.08}	146.5 {5.17}	
		AM31	FIRST GREEN L.S.	189.0 {6.67}	160.6 {5.66}	
		AM70	FAST BLUE L.S.	203.3 {7.17}	172.7 {6.09}	
25H	SILVER	AM2	WHITE L.S.	211.7 {7.47}	179.8 {6.34}	
2017	CONTRAIL M	AM5	JET BLACK	215.3 {7.59}	182.9 {6.45}	
		AB 150	B/C BALANCER		571.2 {20.15}	
		AB 160	BINDER		938.1 {33.09}	
		XB 155	M.S. BINDER	449.8 {15.87}		
		XB 165	M.S. BINDER	950.1 {33.51}		

#### **STANDOX**

		KIND OF PAINT	POLYURETHANE
COLOR	COLOR NAME	LABEL	STANDOX
CODE	COLON NAME	MIXING No.	CC/CC g{oz}
		861	526.0 {18.55}
A3E		566	714.9 {25.22}
	CLASSIC RED CLE	576	899.9 {31.74}
		564	939.4 {33.14}
		870	1,120.9 {39.54}
A4D	ARCTIC WHITE CLE	564	1,140.3 {40.22}
		574	1,141.9 {40.28}
		571	716.5 {25.27}
		803	789.6 {27.85}
		800	856.2 {30.20}
16W	BLACK MC	811	897.0 {31.64}
		859	918.2 {32.39}
		823	921.9 {32.52}
		570	925.6 {32.65}
		571	262.6 {9.26}
		573	690.2 {24.35}
		823	764.3 {26.96}
18J	GRACE GREEN MC	824	844.9 {29.80}
		008	868.4 {30.63}
		588	924.7 {32.62}
		802	937.9 {33.08}
		590	302.2 {10.66}
		811	836.2 {29.50}
24E	SPARKLING SILVER M	008	870.9 {30.72}
240	SPARKLING SILVER IVI	581	924.6 {32.61}
		582	937.9 {33.08}
		571	941.7 {33.22}
		859	673.3 {23.75}
		853	808.0 {28.50}
25B	BLUE PACIFIC MC	825	905.7 {31.95}
		812	922.5 {32.54}
		563	936.0 {33.02}
		801	563.2 {19.87}
		008	695.7 {24.54}
	CANARY YELLOW MC	574	795.1 {28.05}
	CANART TELESWING	570	894.4 {31.55}
25C		580	983.9 {34.71}
		575	990.5 {34.94}
		870	1,131.2 {39.90}
	GROUND	571	1,140.6 {40.23}
		563	1,143.8 {40.35}
		599	748.5 {26.40}
	SNOWFLAKE WHITE	801	873.2 {30.80}
	PEARL MC	802	898.2 {31.68}
25D	. =,	008	939.8 {33.15}
200		570	943.9 {33.29}
		570	1,032.5 {36.42}
	GROUND	564	1,053.6 {37.16}
		581	1,054.7 {37.20}

		KIND OF PAINT	POLYURETHANE
COLOR	COLOR NAME	LABEL	STANDOX
CODE	COLOR NAME	MIXING No.	CC/CC g{oz}
		853	271.8 {9.59}
		825	482.7 {17.03}
25E	STRATO BLUE MC	571	685.3 {24.17}
250	3TRATO BLUE MIC	821	795.0 {28.04}
		859	872.6 {30.78}
		569	945.2 {33.34}
		833	332.3 {11.72}
		566	664.6 {23.44}
25F	GARNET RED MC	805	767.6 {27.08}
25F	GARNET RED MC	828	847.4 {29.89}
		576	913.8 {32.23}
		571	950.4 {33.52}
		811	477.5 {16.84}
		593	716.3 {25.27}
		571	823.7 {29.05}
25G	TITANIUM GRAY M	585	888.2 {31.33}
		569	912.1 {32.17}
		008	924.0 {32.59}
		567	933.6 {32.93}
		593	505.1 {17.82}
25H	SILVER CONTRAIL M	811	926.0 {32.66}
Z3H	SILVER CONTRAIL M	589	932.3 {32.89}
		571	934.4 {32.96}

#### **SPIES HACKER**

		KIND OF PAINT	POLYURETHANE
COLOR CODE	COLOR NAME	LABEL	PERMACRON
OODL		INGREDIENTS	g{oz}
		MB 544	528.2 {18.63}
A3E	CLASSIC RED CLE	MB 536	717.7 {25.32}
ASE	CLASSIC RED CLE	MB 529	903.5 {31.87}
		MB 525	943.2 {33.27}
		MB 511	1,123.1 {39.62}
A4D	ARCTIC WHITE	MB 525	1,142.6 {40.30}
		MB 505	1,144.2 {40.36}
		MB 502	713.7 {25.17}
		MB 799	780.1 {27.52}
		MB 558	814.8 {28.74}
16W	BLACK MC	MB 593	853.0 {30.09}
		MB 554	874.2 {30.84}
		MB 501	918.5 {32.40}
		MB 561	922.2 {32.53}
		MB 522	429.4 {15.15}
		MB 502	693.0 {24.44}
		MB 572	774.0 {27.30}
18J	GRACE GREEN MC	MB 561	848.3 {29.92}
		MB 553	904.8 {31.92}
		MB 799	928.3 {32.74}
		MB 592	941.5 {33.21}
		MB 558	532.9 {18.80}
		MB 514	834.5 {29.44}
		MB 532	888.1 {31.33}
24E	SPARKLING SILVER M	MB 799	922.8 {32.55}
		MB 531	936.0 {33.02}
		MB 502	939.8 {33.15}
		MB 554	672.0 {23.70}
		MB 546	806.4 {28.44}
25B	BLUE PACIFIC MC	MB 563	903.9 {31.88}
		MB 557	920.7 {32.48}
		MB 527	934.1 {32.95}
		MB 591	562.1 {19.83}
		MB 799	694.3 {24.49}
		MB 505	793.5 {27.99}
	CANARY YELLOW MC	MB 501	892.6 {31.49}
25C		MB 523	981.9 {34.63}
		MB 528	988.5 {34.87}
		MB 511	1,133.5 {39.98}
	GROUND	MB 502	1,142.9 {40.31}
		MB 527	1,146.1 {40.43}
		MB 299	747.0 {26.35}
		MB 591	871.5 {30.74}
	SNOWFLAKE WHITE PEARL	MB 799	913.0 {32.20}
	MC	MB 592	937.9 {33.08}
25D		MB 501	942.0 {33.23}
		MB 501	1,036.7 {36.57}
	GROUND	MB 525	1,057.8 {37.31}
	SIGUID	MB 532	1,058.9 {37.35}
		IVID UUZ	1,000.9 {07.00}

		KIND OF PAINT	POLYURETHANE
COLOR CODE	COLOR NAME	LABEL	PERMACRON
CODE		INGREDIENTS	g{oz}
		MB 546	272.3 {9.60}
		MB 563	483.7 {17.06}
25E	STRATO BLUE MC	MB 502	686.7 {24.22}
23E	STRATO BLUE MC	MB 568	796.6 {28.10}
		MB 554	874.3 {30.84}
		MB 520	947.1 {33.41}
		MB 582	331.6 {11.70}
		MB 536	663.3 {23.40}
25F	GARNET RED MC	MB 595	766.1 {27.02}
23F	GARNET RED MC	MB 564	845.7 {29.83}
		MB 529	912.0 {32.17}
		MB 502	948.5 {33.46}
		MB 558	487.5 {17.20}
		MB 513	717.7 {25.32}
		MB 502	825.3 {29.11}
25G	TITANIUM GRAY M	MB 552	890.0 {31.39}
		MB 520	913.9 {32.24}
		MB 799	925.8 {32.66}
		MB 506	935.5 {33.00}
		MB 513	504.1 {17.78}
25H	SILVER CONTRAIL M	MB 558	924.1 {32.60}
20П	SILVER CONTRAIL IVI	MB 538	930.4 {32.82}
		MB 502	932.5 {32.89}

#### **Nexa Autocolor**

		KIND OF PAII		IT POLYURETHANE		
COLOR	COLOE	RNAME	LABEL	AUTO	COLOR	
CODE	COLON	NAME	INGREDIENTS	1L g{oz}	5L g{oz}	
			P425-941	461.9 {16.29}	2,309.5 {81.46}	
			P429-976	558.5 {19.70}	2,792.5 {98.50}	
A3E	CLASSIC	RED CLE	P425-900	562.6 {19.84}	2,813.0 {99.22}	
			P425-921	678.6 {23.94}	3,393.0 {119.68}	
			P192-474	1,017.4 {35.89}	5,087.0 {179.44}	
			P425-900	772.0 {27.23}	3,860.0 {136.16}	
			P420-918RT	776.8 {27.40}	3,884.0 {137.00}	
A4D	ARCTIC W	VHITE CLE	P420-960RT	778.0 {27.44}	3,890.0 {137.21}	
			P420-904RT	795.9 {28.07}	3,979.5 {140.37}	
			P192-475	1,193.3 {42.09}	5,966.5 {210.46}	
			P425-0948	356.1 {12.56}	1,780.5 {62.80}	
			P420-0902RT	388.6 {13.71}	1,943.0 {68.54}	
			P425-0988	410.6 {14.48}	2,053.0 {72.42}	
16W	BLAC	CK MC	P420-0920	424.0 {14.96}	2,120.0 {74.78}	
			P425-0922	456.5 {16.10}	2,282.5 {80.51}	
			P426-PP07	524.5 {18.50}	2,622.5 {92.50}	
			P192-0500	957.2 {33.76}	4,786.0 {168.82}	
			P426-PP65	138.7 {4.89}	693.5 {24.46}	
			P425-0948	263.7 {9.30}	1,318.5 {46.51}	
			P420-0938	314.5 {11.09}	1,572.5 {55.47}	
			P426-PP60	338.9 {11.95}	1,694.5 {59.77}	
18J	GRACE G	REEN MC	P420-902RT	356.5 {12.57}	1,782.5 {62.87}	
			P420-0982	398.5 {14.06}	1,992.5 {70.28}	
			P425-0922	464.9 {16.40}	2,324.5 {81.99}	
			P425-0954	594.8 {20.98}	2,974.0 {104.90}	
			P192-0500	976.7 {34.45}	4,883.5 {172.26}	
			P425-984	396.5 {13.99}	1,982.5 {69.93}	
			P420-938	419.0 {14.78}	2,095.0 {73.90}	
			P420-942	429.7 {15.16}	2,148.5 {75.78}	
24E	SPAKING	SILVER M	P420-982	451.2 {15.92}	2,256.0 {79.58}	
			P425-989	634.8 {22.39}	3,174.0 {111.96}	
			P192-528	976.7 {34.45}	4,883.5 {172.26}	
			P426-PP07	258.2 {9.11}	1,291.0 {45.54}	
			P425-922	345.3 {12.18}	1,726.5 {60.90}	
			P420-920	423.6 {14.94}	2,118.0 {74.71}	
			P420-938	448.1 {15.81}	2,240.5 {79.03}	
25B	BLUE PA	CIFIC MC	P425-948	487.2 {17.19}	2,436.0 {85.93}	
			P425-957	572.3 {20.19}	2,861.5 {100.93}	
			P426-PP63	729.8 {25.74}	3,649.0 {128.71}	
			P192-500	978.2 {34.50}	4,891.0 {172.52}	
			P420-905	299.1 {10.55}	1,495.5 {52.75}	
		-	P425-900	419.2 {14.79}	2,096.0 {73.93}	
		GROUND	P420-926	430.1 {15.17}	2,150.5 {75.86}	
		COAT	P429-937	728.1 {25.68}	3,640.5 {128.41}	
25C	CANARY		P192-475	1,091.6 {38.50}	5,458.0 {192.52}	
	YELLOW MC		P426-PP05	14.2 {0.50}	71.0 {2.50}	
			P426-PP09	18.9 {0.67}	94.5 {3.33}	
		BASE COAT	P192-500	530.0 {18.69}	2,650.0 {93.47}	
			P190-376	948.1 {33.44}	4,740.5 {167.21}	
			1 190-070	1 0-0.1 (00.44)	7,770.0 (107.21)	

			KIND OF PAINT	POLYUR	RETHANE	
COLOR	COLOR NAME		LABEL	AUTOCOLOR		
CODE			INGREDIENTS	1L g{oz}	5L g{oz}	
			P425-900	786.5 {27.74}	3,932.5 {138.71}	
		GROUND	P420-910RT	787.7 {27.78}	3,938.5 {138.92}	
	SNOW-	COAT	P420-904RT	798.5 {28.17}	3,992.5 {140.83}	
25D	FLAKE		P192-475	1,197.1 {42.23}	5,985.5 {211.13}	
250	WHITE		P426-PP05	62.8 {2.22}	314.0 {11.08}	
	PEARL MC	TOP COAT	P426-PP09	74.2 {2.62}	371.0 {13.09}	
		TOP COAT	P192-500	556.3 {19.62}	2,781.5 {98.11}	
			P190-376	950.9 {33.54}	4,754.5 {167.71}	
			P420-930	202.4 {7.14}	1,012.0 {35.70}	
			P420-920	271.8 {9.59}	1,359.0 {47.94}	
			P425-922	333.5 {11.76}	1,667.5 {58.82}	
25E	STRATO	BLUE MC	P425-948	383.6 {13.53}	1,918.0 {67.65}	
			P426-PP64	453.0 {15.98}	2,265.0 {79.89}	
			P426-PP07	582.1 {20.53}	2,910.5 {102.66}	
			P192-500	963.7 {33.99}	4,818.5 {169.96}	
			P429-923	360.2 {12.71}	1,801.0 {63.53}	
	GARNET RED MC		P426-HE01	453.2 {15.99}	2,266.0 {79.93}	
			P420-938	534.3 {18.85}	2,671.5 {94.23}	
			P426-PP09	553.1 {19.51}	2,765.5 {97.55}	
25F			P425-984	562.0 {19.82}	2,810.0 {99.12}	
			P429-976	608.5 {21.46}	3,042.5 {107.32}	
			P420-933	700.5 {24.71}	3,502.5 {123.54}	
			P426-PP08	920.2 {32.46}	4,601.0 {162.29}	
			P192-500	989.5 {34.90}	4,947.5 {174.51}	
			P425-989	323.3 {11.40}	1,616.5 {57.02}	
			P425-950	381.9 {13.47}	1,909.5 {67.35}	
			P420-938	402.4 {14.19}	2,012.0 {70.97}	
			P429-976	413.1 {14.57}	2,065.5 {72.86}	
25G	TITANIUN	M GRAY M	P420-907	419.9 {14.81}	2,099.5 {74.06}	
			P425-922	434.6 {15.33}	2,173.0 {76.65}	
			P420-930	457.1 {16.12}	2,285.5 {80.62}	
			P425-992	634.9 {22.40}	3,174.5 {111.98}	
			P192-528	976.8 {34.46}	4,884.0 {172.28}	
			P425-992	477.0 {16.83}	2,385.0 {84.13}	
			P425-989	526.8 {18.58}	2,634.0 {92.91}	
			P420-960RT	535.6 {18.89}	2,678.0 {94.46}	
0511	011.7755.07	ONITO ALL A4	P425-957	539.5 {19.03}	2,697.5 {95.15}	
25H	SILVER CO	ONTRAIL M	P425-948	545.4 {19.24}	2,727.0 {96.19}	
			P420-938	565.9 {19.96}	2,829.5 {99.81}	
			P420-918RT	634.2 {22.37}	3,171.0 {111.85}	
			P192-528	975.6 {34.41}	4,878.0 {172.06}	

#### **PPG INDUSTRIES**

		KIND OF PAINT	POLYURETHANE			
COLOR	COLOR NAME	LABEL	DELTRON			
CODE	COLON NAME	INGREDIENTS	1L g{oz}	NOTE		
		752	670.0 {23.63}			
A3E	CLASSIC RED CLE	746	875.0 {30.86}			
ASE	CLASSIC RED CLE	791	953.0 {33.62}			
		756	957.9 {33.79}			
		753	1,237.9 {43.66}			
A4D	ARCTIC WHITE CLE	745	1,239.0 {43.70}			
AHD	AROTTO WITTE CLE	742	1,239.4 {43.71}			
		740	1,239.6 {43.72}			
		740	672.0 {23.70}			
		763	864.0 {30.48}			
16W	BLACK MC	952	901.1 {31.78}			
1000	BLACK MC	953	936.1 {33.02}			
		752	950.1 {33.51}			
		753	952.9 {33.61}			
		957	336.0 {11.85}			
		797	599.0 {21.13}			
18J	GRACE GREEM MC	740	799.0 {28.18}			
100	GRACE GREEN INC	754	948.0 {33.44}			
		759	959.2 {33.83}			
		753	962.0 {33.93}			
		952	917.0 {32.35}			
		743	947.6 {33.43}			
24E	SPARKLING SILVER M	745	958.3 {33.80}			
		779	960.9 {33.89}			
		740	961.9 {33.93}			
		776	534.0 {18.84}			
		763	813.0 {28.68}			
OFD	DI LIE DA CIEIC MC	755	890.0 {31.39}			
25B	BLUE PACIFIC MC	958	919.6 {32.44}			
		770	943.3 {33.27}			
		740	964.1 {34.01}			
		744	524.0 {18.48}			
		753	870.0 {30.69}			
	CANARY YELLOW MC	794	1,080.0 {38.10}			
250	COLOR BASE	756	1,084.2 {38.24}			
25C		792	1,087.3 {38.35}			
		941	781.0 {27.55}			
	CANARY YELLOW MC	956	876.0 {30.90}			
	PEARL BASE	960	932.0 {32.87}			
	SNOWFLAKE WHITE PEARL MC COLOR BASE	753	1,240.0 {43.74}			
		751	602.0 {21.23}			
_		941	919.0 {32.42}			
25D	SNOWFLAKE WHITE	753	960.2 {33.87}			
	PEARL MC	759	976.0 {34.43}			
	PEARL BASE	755	976.4 {34.44}			
		756	976.7 {34.45}			
		741	976.8 {34.46}			

		KIND OF PAINT	POLYURETHANE DELTRON		
COLOR	COLOR NAME	LABEL			
CODE	GOLON NAME	INGREDIENTS	1L g{oz}	NOTE	
		958	336.0 {11.85}		
		776	653.0 {23.03}		
25E	STRATO BLUE MC	763	768.0 {27.09}		
		740	869.0 {30.65}		
		755	965.0 {34.04}		
		775	343.0 {12.10}		
		774	511.0 {18.02}		
		793	679.0 {23.95}		
25F	GARNET RED MC	955	818.0 {28.85}		
		759	891.0 {31.43}		
		756	955.0 {33.69}		
		753	957.2 {33.76}		
		952	682.0 {24.06}		
		756	911.0 {32.13}		
25G	TITANIUM GRAY M	741	928.6 {32.75}		
23G	TTANIOW GRAT W	755	939.3 {33.13}		
		955	950.0 {33.51}		
		799	958.0 {33.79}		
		952	936.0 {33.02}		
		759	943.5 {33.28}		
		740	949.5 {33.49}		
25H	SILVER CONTRAIL M	797	953.5 {33.63}		
		963	956.7 {33.75}		
		743	959.2 {33.83}		
		753	960.2 {33.87}		

#### **DIAMONT**

			KIND OF PAINT	POLYURETHANE	
COLOR CODE	COLOR NAME		LABEL	DIAMONT BASE	SOLO DE
	OCCON HAME		INGREDIENTS	g{oz}	DIAMONT BASE g{oz}
		BC 020	REDUCER(THINNER)	88.0 {3.10}	
A3E	CLASSIC RED CLE	BC 832	RED 2	618.7 {21.82}	
ASE	CLASSIC RED CLE	BC 816	ORGANIC BRIGHT RED	915.4 {32.29}	
		BC 250	CARBON BLACK 2	923.8 {32.59}	
		BC 020	REDUCER(THINNER)	88.0 {3.10}	
		BC 190	WHITE	962.4 {33.95}	
A4D	ARCTIC WHITE CLE	BC 209	BLACK TINT	1,030.3 {36.34}	
		BC 609	YELLOW TINT	1,078.9 {38.06}	
		BC 809	RED TINT	1,093.6 {38.57}	
		BC 020	REDUCER(THINNER)	88.0 {3.10}	
		BC 200	CARBON BLACK	667.8 {23.56}	
		BC 406	PHTALO BLUE 3	742.7 {26.20}	
		BC 470	INDO BLUE	809.1 {28.54}	
16W	BLACK MC	BC 118	BLUE PEARL	842.1 {29.70}	
		BC 171	MEDIUM ROUND ALUMINUM	867.4 {30.60}	
		BC 805	IRON RED	876.9 {30.93}	
		BC 101	FLOP CONTROL	916.8 {32.34}	
		BC 020	REDUCER(THINNER)	88.0 {3.10}	
		BC 500	PHTALO GREEN 1	393.4 {13.88}	
		BC 200	CARBON BLACK 1	653.5 {23.05}	
18J	GRACE GREEN MC	BC 1255	GREEN PEARL	781.8 {27.58}	
		BC 406	PHTALO PEARL 3	882.3 {31.12}	
		BC 105	WHITE TINT	895.3 {31.58}	
		BC 101	FLOP CONTROL	926.7 {32.69}	
		BC 020	REDUCER(THINNER)	88.0 {3.10}	
		BC 171	MEDIUM ROUND ALUMINUM	735.1 {25.93}	
24E	SPARKLING SILVER M	BC 600	INORGANIC YELLOW 1	839.5 {29.61}	
		BC 180	COARSE ALUMINUM	882.9 {31.14}	
		BC 200	CARBON BLACK 1	918.5 {32.40}	
		BC 805	IRON RED 2	929.9 {32.80}	
		BC 020	REDUCER(THINNER)	88.0 {3.10}	
		BC 406	PHTALO PEARL 3	382.5 {13.49}	
		BC 118	BLUE PEARL	587.2 {20.71}	
		BC 400	PHTALO BLUE 1	789.5 {27.85}	
25B	BLUE PACIFIC MC	BC 300	VIOLET	869.4 {30.67}	
200	DEGET AGIT TO MIC	BC 200	CARBON BLACK 1	894.9 {31.57}	
		BC 140	MEDIUM FINE ALUMINUM	916.1 {32.31}	
		BC 171	MEDIUM ROUND ALUMINUM	926.4 {32.68}	

			KIND OF PAINT	POLYUR	ETHANE
COLOR CODE	COLOR NAME		LABEL	DIAMONT BASE	SOLO DE
	OCLOR HAMIL		INGREDIENTS	g{oz}	DIAMONT BASE g{oz}
		GROUND	COAT		
		BC 020	REDUCER(THINNER)	88.0 {3.10}	
		BC 621	ORGANIC YELLOW 2	500.1 {17.64}	
		BC 190	WHITE	857.0 {30.23}	
		BC 615	ORGANIC YELLOW 3	983.4 {34.69}	
		BC 805	IRON RED 2	1,016.7 {35.86}	
		BC 250	LAMP BLACK	1,026.0 {36.19}	
250	CANADY VELLOWING	COLOR B	ASE		
25C	CANARY YELLOW MC	BC 020	REDUCER(THINNER)	88.0 {3.10}	
		BC 111	WHITE PEARL	339.8 {11.99}	
		BC 100	MIXING CLEAR	551.1 {19.44}	
		BC 605	INORGANIC YELLOW 2	709.4 {25.02}	
		CB 63L	CRYSTAL BRASS	780.0 {27.51}	
		BC 621	ORGANIC YELLOW 2	824.2 {29.07}	
		BC 615	ORGANIC YELLOW 3	837.1 {29.53}	
		BC 101	FLOP CONTROL	969.3 {34.19}	
		GROUND		,	
		BC 020	REDUCER(THINNER)	88.0 {3.10}	
		BC 190	WHITE	1,010.9 {35.66}	
		BC 209	BLACK TINT	1,058.6 {37.34}	
		BC 809	RED TINT	1,080.7 {38.12}	
		BC 609	YELLOW TINT	1,097.2 {38.70}	
25D	SNOWFLAKE WHITE	BC 409	BLUE TINT	1,103.6 {38.93}	
	PEARL MC	PEARL BA		, ( ,	
		BC 020	REDUCER(THINNER)	88.0 {3.10}	
		BC 100	MIXING CLEAR	721.9 {25.46}	
		BC 111	WHITE PEARL	779.3 {27.49}	
		BC 1265	GOLD PEARL 2	804.4 {28.37}	
		BC 101	FLOP CONTROL	910.9 {32.13}	
		BC 020	REDUCER(THINNER)	88.0 {3.10}	
		BC 200	CARBON BLACK 1	290.4 {10.24}	
		BC 100	MIXING CLEAR	479.2 {16.90}	
		BC 400	PHTALO BLUE 1	646.4 {22.80}	
25E	STRATO BLUE MC	BC 406	PHTALO PEARL 3	725.3 {25.58}	
	511211 <b>5 2252 1110</b>	BC 118	BLUE PEARL	794.2 {28.01}	
		BC 300	VIOLET	860.3 {30.35}	
		CB 34M	CRYSTAL VIOLET	923.2 {32.56}	
		BC 111	WHITE PEARL	931.3 {32.85}	
		BC 020	REDUCER(THINNER)	88.1 {3.11}	
		BC 820	MAROON 1	423.7 {14.95}	
		BC 840	MAGENTA	658.7 {23.23}	
25F	GARNET RED MC	BC 115	RUSSET PEARL	742.6 {26.19}	
201	O/ II I I I I I I I I I I I I I I I I I	BC 200	CARBON BLACK 1	771.8 {27.22}	
		BC 200		796.8 {28.11}	
		BC 1203	FLOP CONTROL	927.1 {32.70}	
		BC 101	I LOF CONTROL	321.1 (32.10)	

			KIND OF PAINT	POLYURETHANE	
COLOR	COLOR NAME		LABEL	DIAMONT BASE	SOLO DE
CODE			INGREDIENTS	g{oz}	DIAMONT BASE g{oz}
		BC 020	REDUCER(THINNER)	88.0 {3.10}	
		BC 175	MEDIURM SHINY ALUMIUIUM	639.4 {22.55}	
		BC 200	CARBON BLACK 1	739.5 {26.08}	
050	TITANIUM GRAY M	BC 115	RUSSET PEARL	822.8 {29.02}	
25G		BC 180	COARSE ALUMINUM	866.8 {30.57}	
		BC 410	PHTALO BLUE 2	892.1 {31.47}	
		BC 300	VIOLET	915.0 {32.28}	
		BC 250	LAMP BLACK	926.7 {32.69}	
		BC 101	FLOP CONTROL	936.0 {33.02}	
	SILVER CONTRAIL M	BC 020	REDUCER(THINNER)	88.0 {3.10}	
		BC 171	MEDIUM ROUND ALUMINUM	787.3 {27.77}	
2511		BC 170	MEDIUM ALUMINIUM	854.7 {30.15}	
25H		BC 200	CARBON BLACK 1	883.9 {31.18}	
		BC 510	PHTALO GREEN 2	893.4 {31.51}	
		BC 406	PHTALO PEARL 3	902.6 {31.84}	
		BC 101	FLOP CONTROL	928.3 {32.74}	

#### **GLASURIT**

		KIND OF PAINT	POLY	URETHANE
COLOR CODE	COLOR NAME	LABEL	GLASSOMAX BASE COAT	GLASSODUR PUR TOP COAT 21-
		INGREDIENTS	g{oz}	g{oz}
		352-91	173.8 {6.13}	
A 2 F	CLASSIC RED CLE	A 352	646.0 {22.79}	
A3E	CLASSIC RED CLE	A 324	910.8 {32.13}	
		A 974	918.2 {32.39}	
		352-91	173.8 {6.13}	
		M 25	950.9 {33.54}	
A4D	ARCTIC WHITE CLE	A 927	1,011.3 {35.67}	
		A 137	1,054.5 {37.20}	
		A 307	1,067.6 {37.66}	
		M99/19	30.0 {1.06}	
		69-M505	70.0 {2.47}	
		A 098	80.0 {2.82}	
16W	BLACK MC	A 531	135.0 {4.76}	
		A 555	215.0 {7.58}	
		A 926	988.0 {34.85}	
		A 105	1,000.0 {35.27}	
		35291	174.2 {6.14}	
		M 600	288.3 {10.17}	
		A 640	561.0 {19.79}	
18J	GRACE GREEN MC	A 926	791.8 {27.93}	
	_	A 555	880.7 {31.07}	
		A 125	891.8 {31.46}	
		M 1	919.4 {32.43}	
		352-91	173.8 {6.13}	
		M 99/19	748.9 {26.42}	
24E	SPARKLING SILVER M	M 99/20	787.5 {27.78}	
246	SPARKLING SILVER IVI	A 136	880.4 {31.05}	
		A 926	912.0 {32.17}	
		M 306	922.1 {32.53}	
		352-91	173.8 {6.13}	
		M 505	355.8 {12.55}	
		M 99/10	374.6 {13.21}	
25B	BLUE PACIFIC MC	M 99/19	383.8 {13.54}	
200	BLUL I ACIFIC IVIC	A 555	645.4 {22.77}	
		A 552	825.3 {29.11}	
		A 427	896.3 {31.62}	
		A 926	919.0 {32.42}	

		KIND OF PAINT	POLYURETHANE		
COLOR CODE	COLOR NAME	LABEL	GLASSOMAX BASE COAT	GLASSODUR PUR TOP COAT 21-	
		INGREDIENTS	g{oz}	g{oz}	
		GROUND COAT			
		352-91	173.8 {6.13}		
		A 143	540.1 {19.05}		
		M 25	857.1 {30.23}		
		M 146	969.4 {34.19}		
		M 306	999.0 {35.24}		
		A 974	1,007.2 {35.53}		
25C	CANARY YELLOW MC	COLOR BASE			
250	CANAICI TELEOW MC	352-91	173.8 {6.13}		
		M 010	397.9 {14.04}		
		E 910	460.6 {16.25}		
		M 0	648.4 {22.87}		
		M 105	789.1 {27.83}		
		A 143	828.4 {29.22}		
		M 146	839.8 {29.62}		
		M 1	957.2 {33.76}		
		GROUND COAT			
		352-91	173.8 {6.13}		
		M 25	994.0 {35.06}		
		A 927	1,036.4 {36.56}		
		A 307	1,056.0 {37.25}		
	SNOWFLAKE WHITE	A 137	1,070.7 {37.77}		
25D	PEARL MC	A 553	1,076.4 {37.97}		
		PEARL BASE			
		352-91	173.8 {6.13}		
		M 010	224.9 {7.93}		
		M 179	247.2 {8.72}		
		M 0	810.6 {28.59}		
		M 1	905.3 {31.93}		
		352-91	173.8 {6.13}		
		M 505	235.0 {8.29}		
		E 440	290.9 {10.26}		
0.55	0.75 4.75 54.45	M 010	298.0 {10.51}		
25E	STRATO BLUE MC	A 926	478.2 {16.87}		
		M 0	646.0 {22.79}		
		A 552	794.7 {28.03}		
		A 555	864.8 {30.50}		
		A 427	923.5 {32.57}		
	—	352-91	173.8 {6.13}		
	—	M 800 M 179	248.4 {8.76} 270.6 {9.54}		
25F	GARNET RED MC	A 347	569.0 {20.07}		
ZUF	GARNET RED IVIC	A 353	778.0 {27.44}		
		A 926	804.0 {28.36}		
		M 1	919.8 {32.44}		
	<u> </u>	IVI I	313.0 {32.44}	1	

		KIND OF PAINT	POLYU	JRETHANE
COLOR CODE	COLOR NAME	LABEL	GLASSOMAX BASE COAT	GLASSODUR PUR TOP COAT 21-
		INGREDIENTS	g{oz}	g{oz}
		352-91	173.8 {6.13}	
		M 99/22	663.8 {23.41}	
		M 800	737.9 {26.03}	
		M 99/20	777.0 {27.41}	
25G	TITANIUM GRAY M	A 926	866.0 {30.55}	
		A 548	888.4 {31.34}	
		A 427	908.8 {32.06}	
		A 974	919.2 {32.42}	
		M 1	927.5 {32.72}	
		352-91	173.8 {6.13}	
		M 99/19	795.4 {28.06}	
		M 99/12	855.3 {30.17}	
25H	SILVER CONTTAIL M	A 926	881.3 {31.09}	
		A 696	889.8 {31.39}	
		A 555	898.0 {31.68}	
		M 1	920.8 {32.48}	