# 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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# **VEHICLE IDENTIFICATION NUMBERS (VIN)**

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

# 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.

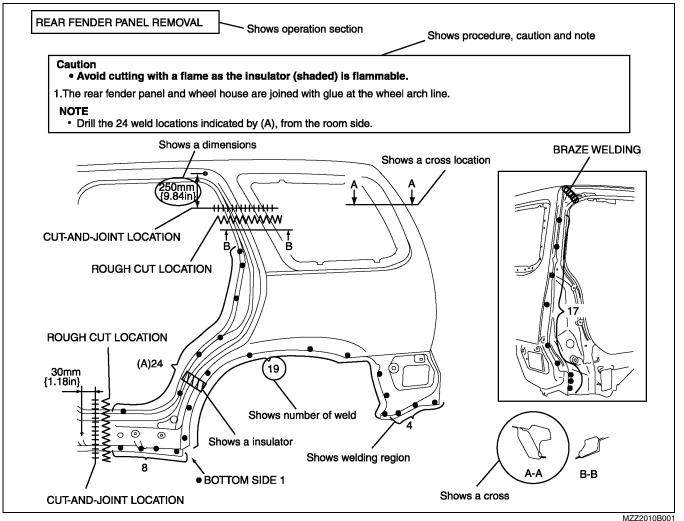
# **GENERAL INFORMATION**

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# HOW TO USE THIS MANUAL

# HOW TO READ EFFICIENT REPLACEMENT OF BODY PANELS

- 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.

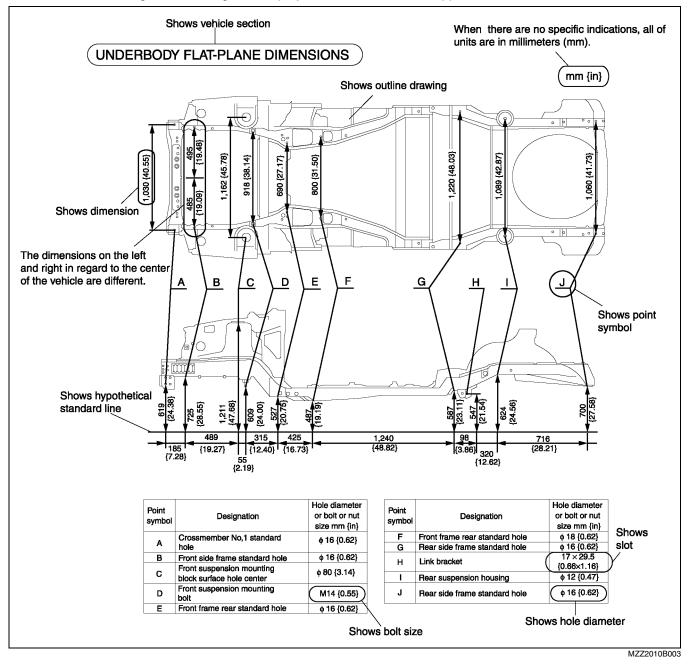
SYMBOL	MEANING	SYMBOL	MEANING
	Spot welding		Continuous MIG welding (Cut-and-join location)
	CO <sup>2</sup> arc welding (plug welding)		Braze welding
+	CO <sup>2</sup> spot welding		Rough cut location

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#### HOW TO READ BODY DIMINSIONS

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

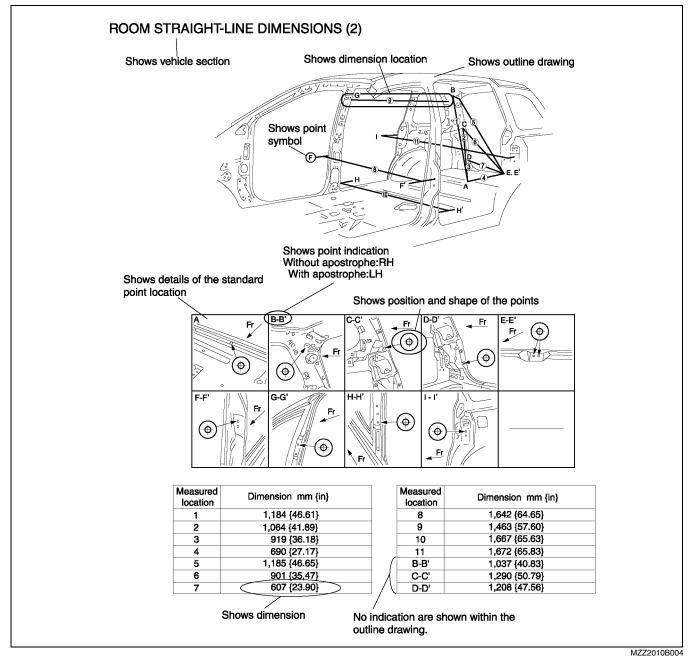
- Flat-plane dimensions are the dimensions measured by projecting certain reference points onto a plane surface.
- When there are no specific indications, the standard points and dimensions are symmetrical in regard to the center of the vehicle.
- The hypothetical lines may differ according to the vehicle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



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# **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.

SYMBOL	MEANING	SYMBO	L MEANING
	Center of circular hole	•**	Panel seam, bead, etc.
•	Center elliptical hole	(arrow only	) Bolt tip
Þ	Edge of hole		Center of rectangular-shaped hole
5	Notch		Edge of rectangular-shaped hole

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# SERVICE PRECAUTIONS

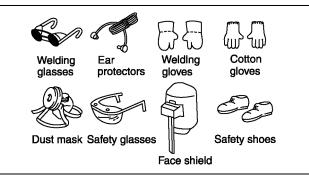
#### SERVICE PRECAUTIONS

#### Arrangement of Workshop

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

#### **Safety Precautions**

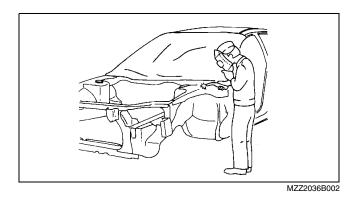
• Protective head covering and safety shoes should always be worn. Depending upon the nature of the work, gloves, safety glasses, ear protectors, face shield, etc., should also be used.



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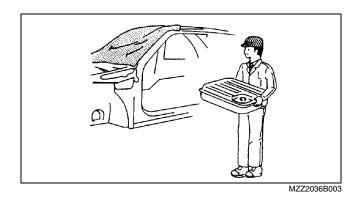
#### **Vehicle Protection**

- 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.



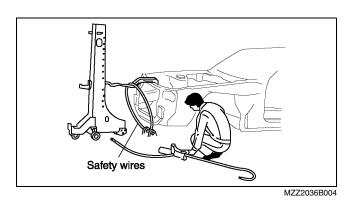
#### **Remove Dangerous Articles**

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



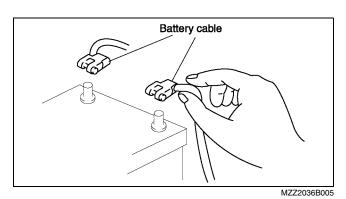
# **Use of Pulling Equipment**

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

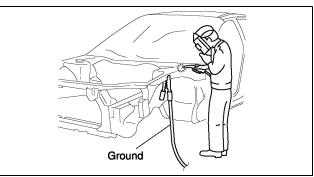


#### **Prevent Short Circuits**

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



Securely connect the welding machine ground ٠ near the welding area.



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# **EFFICIENT REPLACEMENT OF BODY PANELS**

# **EFFICIENT REMOVAL OF BODY PANELS**

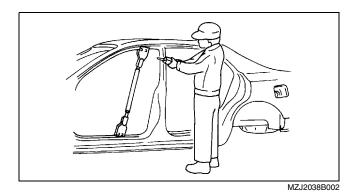
#### **Body Measurements**

 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.

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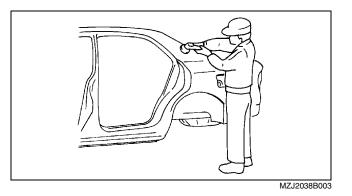
#### **Prevention of Body Deformation**

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



#### 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.



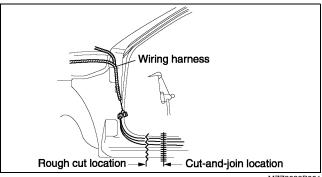
#### **Remove of Associated Parts**

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

# **EFFICIENT REPLACEMENT OF BODY PANELS**

## 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.



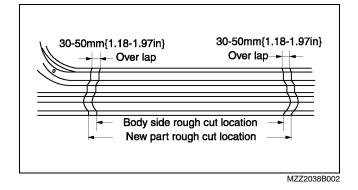
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## INSTALLATION PREPARATIONS

#### **Rough Cutting of New Parts**

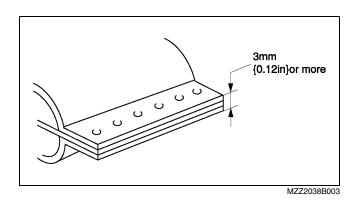
• For cut-and-join areas, allow for an overlap of 30—50 mm {1.18—1.97 in} with the remaining area on the body side and then rough-cut the new parts.

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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.

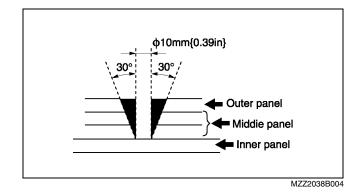


## Making Holes for CO<sub>2</sub> Arc Welding

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

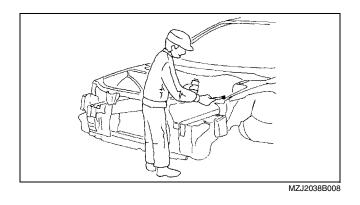
	(mm {in})
Board thickness (ø)	Hole diameter (ø)
0.60-0.90 {0.02-0.03}	5 {0.19}
0.91—1.20 {0.04—0.05}	6 {0.23}
1.21—1.80 {0.051—0.07}	8 {0.31}
1.81-4.50 {0.071-0.17}	10 {0.39}

 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.



#### **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.

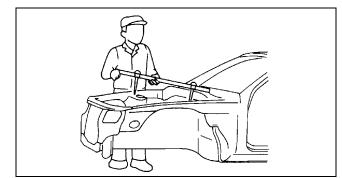


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## **EFFICIENT INSTALLATION OF BODY PANELS**

#### **Checking Preweld Measurements And Watching**

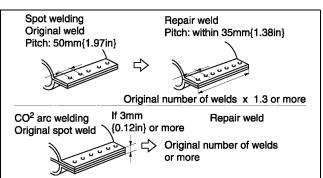
• Align to the standard reference dimensions, based upon the body dimensions illustration, so that new parts are installed in the correct position.



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# Welding Notes

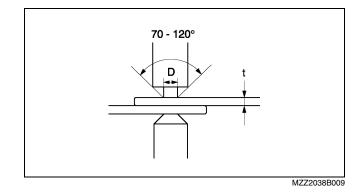
• For the number of weld points, welding should be performed in accordance with the following reference standards.



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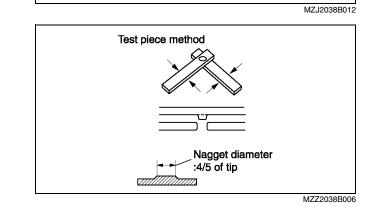
## Spot Welding Notes

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



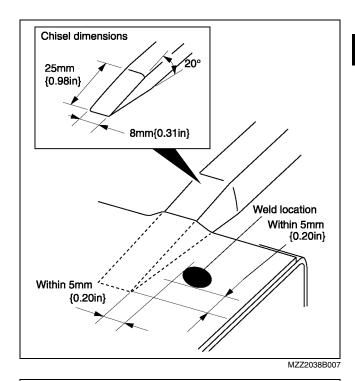
- Because the weld strength is affected by the shape of the spot welder tip, the optimum condition of the tip should always be maintained.
- Spot welds should be made at points other than the originally welded points.

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

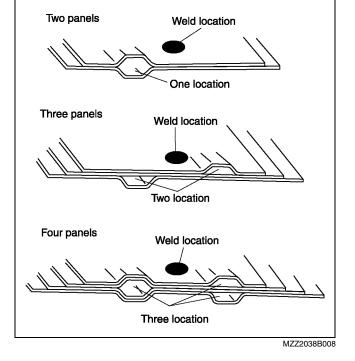


# **Checking Weld Strength**

 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.



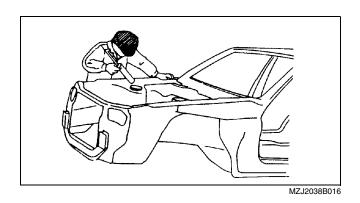
- Drive the chisel between the panels according to the number of panels as shown below.
- To determine weld strength, drive the chisel between the panel and check whether the panels come apart. If the panels come apart, make another weld near the original weld.
- · Restore the shape of the checked area.



# AFTER-INSTALLATION RUST PROOFING, NOISE AND VIBRATION INSULATING

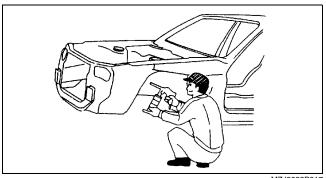
#### **Body Sealing**

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



## Application of Undercoating

• Apply an undercoat to the required location of the body.

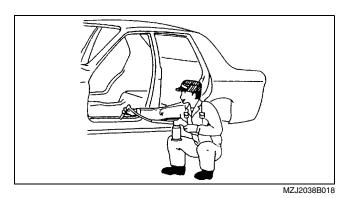


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### Application of Rust Inhibitor

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



#### **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

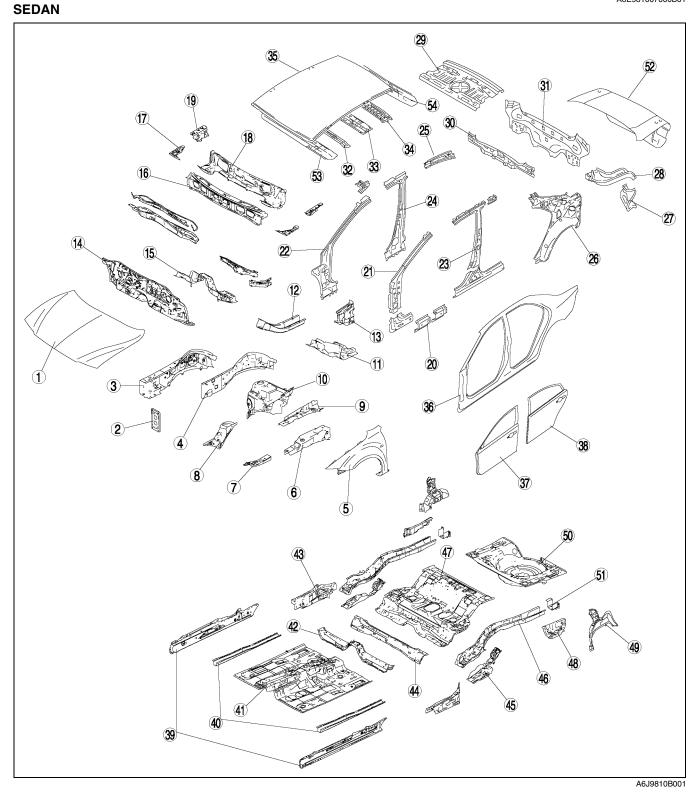
# CONSTRUCTION

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# CONSTRUCTION

# CONSTRUCTION

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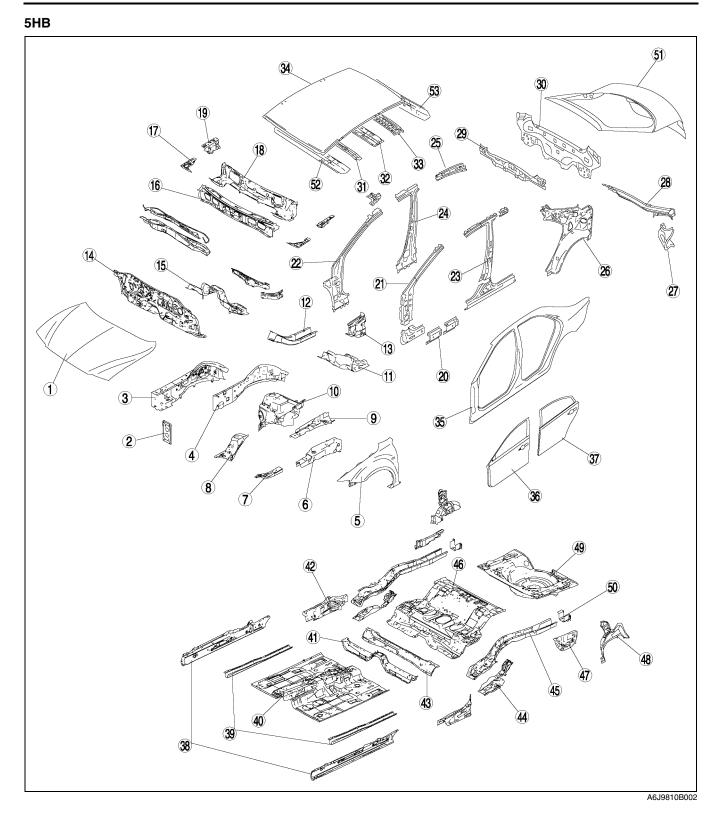


# x:Applied -:Not applied

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12       Front frame rear friend reinforcement       x       x       2.9{0.114}         13       Cowl side reinforcement       -       x       1.2 {0.047}         14       Dash lower panel       -       x       0.85 {0.033}         15       Member dash lower       -       x       0.603         16       Cowl panel       -       x       0.7{0.028}         17       Cowl upper plate       -       x       0.9{0.035}         19       Cowl upper plate       -       x       0.9{0.035}         20       Side sill reinforcement       x       x       1.4{0.055}         20       Side sill reinforcement       x       -       1.8{0.071}         21       Front pillar reinforcement       x       -       1.6{0.063}         22       Front pillar reinforcement       x       -       1.6{0.063}         23       Center pillar reinforcement       x       -       1.8{0.071}         23       Center pillar reinforcement       x       -       1.8{0.071}         24       Center pillar inner       Upper       x       -       1.8{0.071}         24       Center pillar inner       Upper       x       - <td< td=""><td>10</td><td></td><td>Lower</td><td>-</td><td>х</td><td>1.2{0.047}</td></td<>	10		Lower	-	х	1.2{0.047}
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	11			-	х	
13       reinforcement       -       X $\{0.047\}$ 14       Dash lower panel       -       X $\{0.047\}$ 15       Member dash lower       -       X $\{0.033\}$ 16       Cowl panel       -       X $0.85$ 16       Cowl panel       -       X $0.603$ 17       Cowl upper plate       -       X $0.7\{0.028\}$ 17       Cowl upper plate       -       X $0.9\{0.035\}$ 19       Cowl upper plate       X       X $0.9\{0.035\}$ 20       Side sill reinforcement       X       X $0.9\{0.035\}$ 21       Front pillar reinforcement       X       X $0.9$ 22       Front pillar inner       Upper       X       - $1.8\{0.071\}$ 22       Front pillar reinforcement       X       - $1.4\{0.055\}$ 23       Center pillar reinforcement       X       - $1.8\{0.071\}$ 23       Center pillar reinforcement       X       - $1.8\{0.071\}$ 24       Center pillar inner       Upper       X       - $1.8\{0.071\}$	12	Front frame rear		х	х	2.9{0.114}
14       Dash lower panel       -       X $\{0.033\}$ 15       Member dash lower       -       X $\{0.033\}$ 16       Cowl panel       -       X $0.7\{0.028\}$ 17       Cowl upper plate       -       X $0.7\{0.028\}$ 18       Dash upper plate       -       X $0.9\{0.035\}$ 19       Cowl upper plate       -       X $0.9\{0.035\}$ 20       Side sill reinforcement       X       X $0.9\{0.035\}$ 20       Side sill reinforcement       X       X $0.9\{0.035\}$ 21       Front pillar reinforcement       X       X $0.9\{0.035\}$ 21       Front pillar reinforcement       X       X $0.9\{0.035\}$ 22       Front pillar reinforcement       X       - $1.8\{0.071\}$ 22       Front pillar reinforcement       Upper       X       - $1.6\{0.063\}$ 23       Center pillar reinforcement       Upper       X       - $1.6\{0.063\}$ 24       Center pillar inner       Upper       X       - $1.8\{0.071\}$ 24       Center pillar inner       Upper </td <td>13</td> <td colspan="2"></td> <td>-</td> <td>x</td> <td></td>	13			-	x	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	14	Dash lower panel		-	x	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	15	Member dash lower		-	х	1.6{0.063}
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	16	Cowl panel		-	х	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	17	Cowl upper plat	te	-	х	1.6{0.063}
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				-	х	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	19	Cowl upper plat	te	х	х	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	20		cement	x	x	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	21			x	-	{0.071}
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	22	Front pillar	Upper	х	-	1.6{0.063}
23 Center pillar reinforcement $\begin{array}{c c} front \\ Upper \\ rear \\ \hline \\ Center \\ x \\ \hline \\ \\ Center \\ x \\ \hline \\ \\ Center \\ x \\ \hline \\ \\ Center \\ x \\ \hline \\ Center \\ x \\ $	22	inner	Lower	х	-	1.4{0.055}
23         reinforcement         rear         X         -         1.6{0.063}           Center         x         -         2.0{0.079}         1.8         0.071}           Lower         x         -         1.8         {0.071}           24         Center pillar inner         Upper         x         -         1.6{0.063}				x	-	1.8{0.071}
Center         x         -         2.0{0.079}           Lower         x         -         1.8 {0.071}           24         Center pillar inner         Upper         x         -         1.6{0.063}           Center         x         -         1.2{0.047}	23			x	-	1.6{0.063}
Lower         x         -         1.8 {0.071}           24         Center pillar inner         Upper         x         -         1.6{0.063}           Center         x         -         1.2{0.047}				x	-	2.0{0.079}
24         Center pillar inner         Upper         x         -         1.6{0.063}           Center pillar         Center         x         -         1.2{0.047}				x	-	1.8
24 Center pillar Center x - 1.2{0.047}		<b>a</b>	Upper	x	-	
	24			x	-	
				x	-	1.0{0.039}

No.	Part Nan	ne	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 rai	n rail	-	х	0.7{0.028}
29	Package tray		-	-	0.65 {0.026}
30	Rear end mem	ber	-	-	0.6{0.024}
31	Rear end panel	l	-	х	0.65 {0.026}
32	Roof reinforcen		-	-	0.5{0.020}
33	Roof reinforcen	nent	х	-	1.4{0.055}
34	Roof reinforcen	nent	-	-	0.55 {0.022}
35	Roof panel		-	-	0.75 {0.030}
36	Side frame oute	ər	-	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 I		-	-	1.2{0.047}
43	Side sill inner re	ear	х	х	1.6{0.063}
44	Crossmember I	No.3	х	-	1.4{0.055}
45	Link bracket		x	х	2.3 {0.091}
46	Rear side	Fr	х	х	1.8{0.071}
40	frame	Rr	х	х	1.4{0.055}
47	Center floor par	n	-	х	0.6{0.024}
48	Floor side pane	el	-	х	0.6{0.024}
49	Wheel house in	iner	-	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		-	x	0.75 {0.030}
53	Front header		-	-	1.2{0.047}
54	Rear header		-	-	0.65 {0.026}

# CONSTRUCTION



# x:Applied -:Not applied

$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	No.	. Part Name		High- tension steel	Rust proof steel	Thickness (mm) {in}
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	1	Bonnet		х	х	0.7{0.028}
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	2	Front bumper b	racket	-	-	2.9{0.114}
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	0	Front side	Fr	х	х	1.6{0.063}
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	3	frame inner	Rr	х	х	2.6{0.102}
trame outer         Rr         x         x         2.0{0.079} {0.075}           5         Front fender panel         x         x         0.75 {0.030}           6         Apron reinforcement upper         -         x         1.0 {0.039}           7         Shroud upper reinforcement         -         x         2.0 {0.079}           8         Wheel apron panel front         -         x         0.65 {0.026}           9         Apron reinforcement lower         -         x         1.0 {0.039}           10         Suspension housing         Upper         x         x         3.2{0.126}           10         Suspension housing         Upper         x         x         3.2{0.126}           11         Torque box         -         x         1.4{0.055}           12         Front frame rear         x         x         2.9{0.114}           13         Cowl side reinforcement         -         x         1.4{0.055}           14         Dash lower panel         -         x         1.6{0.063}           16         Cowl paper plate         -         x         0.9{0.035}           19         Cowl upper plate         x         x         1.6{0.063}	4	Front side	Fr	х	х	1.4{0.055}
SFront render panelXX $\{0.030\}$ 6Apron reinforcement upper-X $\{0.039\}$ 7Shroud upper reinforcement-X $\{0.039\}$ 8Wheel apron panel front-X $\{0.079\}$ 8Wheel apron panel front-X $\{0.039\}$ 9Apron reinforcement lower-X $\{0.039\}$ 10Suspension housingUpperXX $3.2\{0.126\}$ 11Torque box-X $1.2\{0.047\}$ 12Front frame rearXX $2.9\{0.114\}$ 13Cowl side reinforcement-X $1.4\{0.055\}$ 12Front frame rear-X $2.9\{0.114\}$ 13Cowl side reinforcement-X $0.4\{0.047\}$ 14Dash lower panel-X $0.4\{0.047\}$ 14Dash lower panel-X $0.603\}$ 15Member dash lower-X $1.6\{0.063\}$ 16Cowl panel-X $0.9\{0.035\}$ 19Cowl upper plate-X $1.4\{0.055\}$ 20Side sill reinforcementXX $0.9$ 21Front pillar reinforcementX- $1.8\{0.071\}$ 22Front pillar innerUpper rear-1.6\{0.063\}23Center pillar innerUpper x- $1.6\{0.063\}$ 24Center pillar innerUpper x- $1.6\{0.063\}$ 24 </td <td>4</td> <td>frame outer</td> <td>Rr</td> <td>х</td> <td>х</td> <td>2.0{0.079}</td>	4	frame outer	Rr	х	х	2.0{0.079}
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	5	Front fender pa	nel	x	х	
7reinforcement-X $\{0.079\}$ 8Wheel apron panel front-X $0.65$ $\{0.026\}$ 9Apron reinforcement lower-X $1.0$ $\{0.039\}$ 10Suspension housingUpperXX $3.2\{0.126\}$ 10Suspension housingUpperXX $3.2\{0.126\}$ 11Torque box-X $1.2\{0.047\}$ 11Torque box-X $1.4\{0.055\}$ 12Front frame rearXX $2.9\{0.114\}$ 13Cowl side reinforcement-X $0.047\}$ 14Dash lower panel-X $0.85$ $\{0.033\}$ 15Member dash lower-X $1.6\{0.063\}$ 16Cowl panel-X $0.9\{0.035\}$ 17Cowl upper plate-X $1.4\{0.055\}$ 20Side sill reinforcementXX $0.9\{0.035\}$ 21Front pillar reinforcementX- $1.6\{0.063\}$ 22Front pillar 	6		ment	-	х	
ofront-X $\{0.026\}$ 9Apron reinforcement lower-X $\{0.039\}$ 10Suspension housingUpperxx $3.2\{0.126\}$ 10Suspension housingLower-x $1.2\{0.047\}$ 11Torque box-x $1.4\{0.055\}$ 12Front frame rearxx $2.9\{0.114\}$ 13Cowl side reinforcement-x $1.2$ 14Dash lower panel-x $\{0.047\}$ 14Dash lower panel-x $0.033$ 15Member dash lower-x $1.6\{0.063\}$ 16Cowl panel-x $0.7\{0.028\}$ 17Cowl upper plate-x $0.9\{0.035\}$ 18Dash upper panel-x $0.9\{0.035\}$ 20Side sill reinforcementxx $1.4\{0.055\}$ 20Side sill reinforcementx- $1.8\{0.071\}$ 22Front pillar reinforcementx- $1.8\{0.071\}$ 23Center pillar reinforcementUpper x- $1.6\{0.063\}$ 24Center pillar innerUpper x- $1.8\{0.071\}$ 24Center pillar innerUpper x- $1.6\{0.063\}$	7			-	х	-
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	8	Wheel apron pa front	anel	-	х	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	9		ment	-	х	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	10	Suspension	Upper	х	х	3.2{0.126}
12       Front frame rear       x       x       2.9{0.114}         13       Cowl side reinforcement       -       x       1.2 {0.047}         14       Dash lower panel       -       x       0.85 {0.033}         15       Member dash lower       -       x       0.6(0.63)         16       Cowl panel       -       x       0.7{0.028}         17       Cowl upper plate       -       x       0.9{0.035}         19       Cowl upper plate       x       x       1.4{0.055}         20       Side sill reinforcement       x       x       1.8{0.071}         21       Front pillar reinforcement       y       -       1.8{0.071}         22       Front pillar reinforcement       Upper       x       -       1.8{0.071}         23       Center pillar reinforcement       Upper       x       -       1.6{0.063}         24       Center pillar inner       Upper       x       -       1.8{0.071}         24       Center pillar inner       Upper       x       -       1.6{0.063}         Center pillar inner       Upper       x       -       1.6{0.063}         Center pillar inner       Upper       x       <	10	housing	Lower	-	х	1.2{0.047}
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	11	Torque box		-	х	
13       reinforcement       -       X $\{0.047\}$ 14       Dash lower panel       -       X $\{0.047\}$ 15       Member dash lower       -       X $\{0.033\}$ 16       Cowl panel       -       X $0.85$ 16       Cowl panel       -       X $0.603$ 17       Cowl upper plate       -       X $0.7\{0.028\}$ 17       Cowl upper plate       -       X $0.9\{0.035\}$ 19       Cowl upper plate       X       X $0.9\{0.035\}$ 20       Side sill reinforcement       X       X $0.9\{0.035\}$ 21       Front pillar reinforcement       X       X $0.9$ 22       Front pillar inner       Upper       X       - $1.8\{0.071\}$ 22       Front pillar inner       Upper       X       - $1.8\{0.071\}$ 23       Center pillar reinforcement       X       - $1.8\{0.071\}$ Upper         23       Center pillar reinforcement       X       - $1.8\{0.071\}$ 24       Center pillar inner       Upper       -       1.6\{0.063\} <td>12</td> <td colspan="2">Front frame rear</td> <td>х</td> <td>х</td> <td></td>	12	Front frame rear		х	х	
14       Dash lower panel       -       X $\{0.033\}$ 15       Member dash lower       -       X $\{0.033\}$ 16       Cowl panel       -       X $0.7\{0.028\}$ 17       Cowl upper plate       -       X $0.7\{0.028\}$ 17       Cowl upper plate       -       X $0.7\{0.028\}$ 18       Dash upper panel       -       X $0.9\{0.035\}$ 19       Cowl upper plate       X       X $0.9\{0.035\}$ 20       Side sill reinforcement       X       X $0.9\{0.035\}$ 20       Side sill reinforcement       X       X $0.9\{0.035\}$ 21       Front pillar reinforcement       X       X $0.9\{0.035\}$ 22       Front pillar inner       Upper       X       - $1.6\{0.063\}$ 22       Front pillar reinforcement       Upper       X       - $1.8\{0.071\}$ 23       Center pillar reinforcement       Upper       X       - $1.6\{0.063\}$ 23       Center pillar reinforcement       Upper       X       - $1.8\{0.071\}$ 24       Center pillar inner	13			-	х	{0.047}
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	14	Dash lower panel		-	х	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	15	Member dash lower		-	х	1.6{0.063}
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	16	Cowl panel		-	х	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	17			-	х	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	18			-	х	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	19	Cowl upper plat	te	х	х	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	20	Side sill reinford	cement	х	х	
222         inner         Lower         x         -         1.4{0.055}           23         Center pillar reinforcement         Upper front         x         -         1.8{0.071}           23         Center pillar reinforcement         Upper rear         x         -         1.6{0.063}           Center pillar reinforcement         Upper x         -         1.6{0.063}           Center pillar inner         Upper x         -         1.8{0.071}           24         Center pillar inner         Upper x         -         1.6{0.063}           Center pillar inner         Upper x         -         1.6{0.063}	21			x	-	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	22	Front pillar	Upper	х	-	
$\begin{array}{c c} 23 \\ \hline 24 \\ 24 \\$	22	inner	Lower	х	-	1.4{0.055}
23         Center pillar reinforcement         rear         X         -         1.6{0.063}           Center pillar         Center         x         -         2.0{0.079}           Lower         x         -         1.8 {0.071}           24         Center pillar inner         Upper         x         -         1.6{0.063}           Center pillar         Center x         -         1.6{0.063}         -				x	-	1.8{0.071}
Center         x         -         2.0{0.079}           Lower         x         -         1.8 {0.071}           24         Center pillar inner         Upper         x         -         1.6{0.063}           Center         x         -         1.2{0.047}	23			x	-	1.6{0.063}
Lower         x         -         1.8 {0.071}           24         Center pillar inner         Upper         x         -         1.6{0.063}           Center pillar         Center         x         -         1.2{0.047}				x	-	2.0{0.079}
24         Center pillar inner         Upper         x         -         1.6{0.063}           Center pillar         Center         x         -         1.2{0.047}			Lower	x	-	
24 Center pillar Center x - 1.2{0.047}			Upper	x	-	
Lower x - 1.0{0.039}	24			x		
			Lower	x	-	1.0{0.039}

	i				Not applied
No.	Part Nan	ne	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 rai	n rail	-	х	0.8{0.031}
29	Rear end mem	oer	-	-	0.6{0.024}
30	Rear end panel		-	х	0.65 {0.026}
31	Roof reinforcen	nent	-	-	0.5{0.020}
32	Roof reinforcen	nent	х	-	1.4{0.055}
33	Roof reinforcen	nent	-	-	0.55 {0.022}
34	Roof panel		-	-	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 fromo	ront B frame Fr x Rr -	х	х	2.3{0.091}
59			-	х	1.6{0.063}
40	Front floor pan		-	х	0.65 {0.026}
41	Crossmember No.2		-	-	1.2{0.047}
42	Side sill inner re	ear	х	х	1.6{0.063}
43	Crossmember I	No.3	х	-	1.4{0.055}
44	Link bracket		x	х	2.3 {0.091}
45	Rear side	Fr	х	х	1.8{0.071}
43	frame	Rr	х	х	1.4{0.055}
46	Center floor par	า	-	х	0.6{0.024}
47	Floor side pane		-	х	0.6{0.024}
48	Wheel house in	iner	-	х	0.75 {0.030}
49	Rear floor pan		-	х	0.65 {0.026}
50	Rear bumper	LH	х	х	2.0{0.079}
50	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}
	Side		-	-	1.4{0.055}

# PANEL REPLACEMENT

PANEL REPLACEMENT SHROUD UPPER REINFORCEMENT	111-2
REMOVAL	III-2
SHROUD UPPER RAINFORCEMENT	
INSTALLATION COWL SIDE REINFORCEMENT AND	111-3
COWL SIDE REINFORCEMENT AND COWL UPPER PLATE REMOVAL	ш и
COWL SIDE REINFORCEMENT AND	111-4
COWL SIDE REINFORCEMENT AND COWL UPPER PLATE INSTALLATION	ШБ
APRON REINFORCEMENT ASSEMBLY	111-5
	III-6
REMOVAL APRON REINFORCEMENT ASSEMBLY	0
INSTALLATION	111-7
WHEEL APRON PANEL ASSEMBLY	
REMOVAL	111-8
WHEEL APRON PANEL ASSEMBLY	
INSTALLATION	III-9
FRONT SIDE FRAME REMOVAL	III-10
FRONT SIDE FRAME INSTALLATION	
FRONT PILLAR REMOVAL	III-12
FRONT PILLAR INSTALLATION	III-14
CENTER PILLAR REMOVAL CENTER PILLAR INSTALLATION	
REAR FENDER PANEL REMOVAL	
REAR FENDER PANEL INSTALLATION	
SIDE SILL PANEL REMOVAL	
SIDE SILL PANEL INSTALLATION	
REAR END PANEL REMOVAL	III-24
REAR END PANEL INSTALLATION	III-26
REAR FENDER RAIN RAIL AND CORNER	
PLATE REMOVAL	III-28
REAR FENDER RAIN RAIL AND CORNER	
PLATE INSTALLATION	
REAR FLOOR PAN REMOVAL	
REAR FLOOR PAN INSTALLATION	
FLOOR SIDE PANEL REMOVAL FLOOR SIDE PANEL INSTALLATION	
REAR SIDE FRAME (PARTIAL CUTTING)	111-30
REMOVAL	111-38
REAR SIDE FRAME (PARTIAL CUTTING)	m-00
INSTALLATION.	111-39
ROOF PANEL REMOVAL	
ROOF PANEL INSTALLATION	III-42
For shroud panel removal/installation and rep	lace-

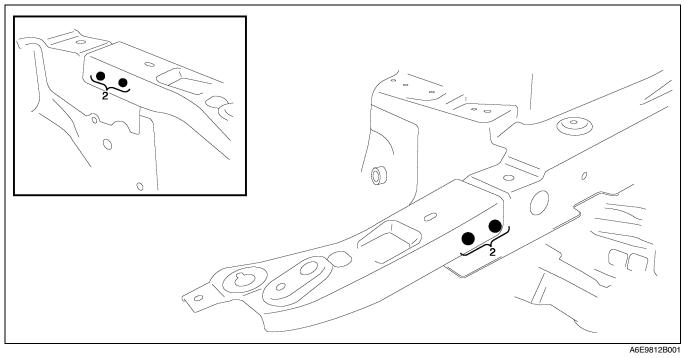
For shroud panel removal/installation and replacement procedures, refer to the MAZDA6 Workshop Manual (1730-1\*-02C) \*:Indicates the printing location E-Europe 0-Japan

# PANEL REPLACEMENT

A6E981253152B01

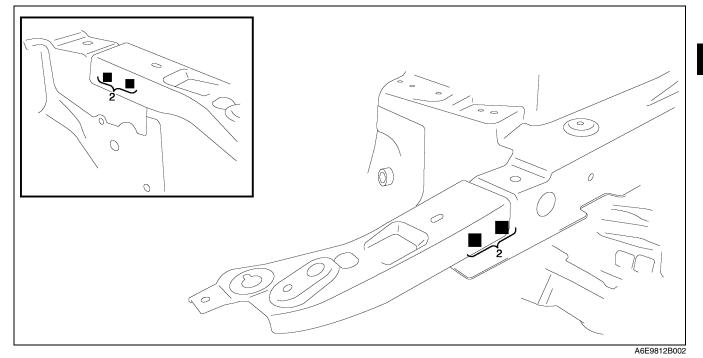
# SHROUD UPPER REINFORCEMENT REMOVAL

1. Remove the shroud upper reinforcement.



# 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.



A6E981253152B02

# COWL SIDE REINFORCEMENT AND COWL UPPER PLATE REMOVAL

1. Remove the cowl side reinforcement.

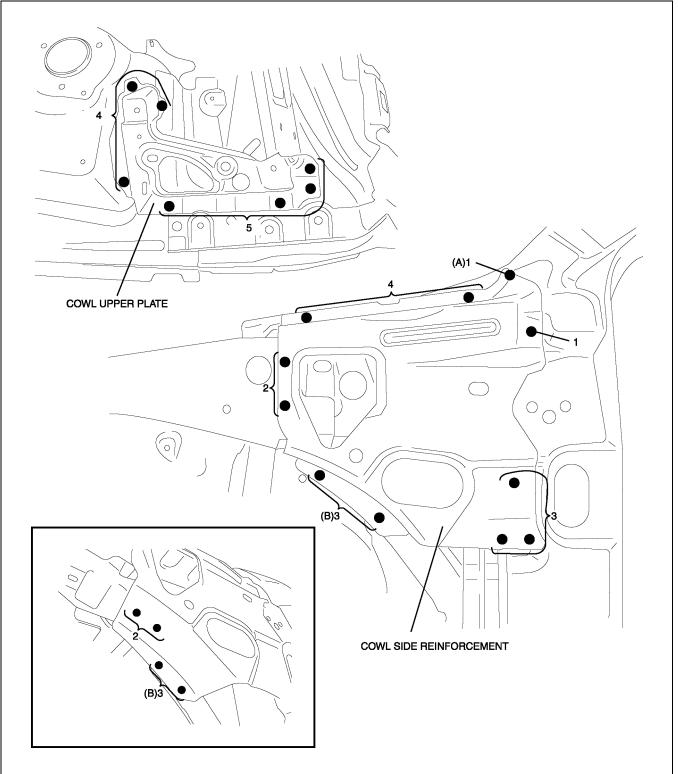
A6E981253290B01

## Note

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

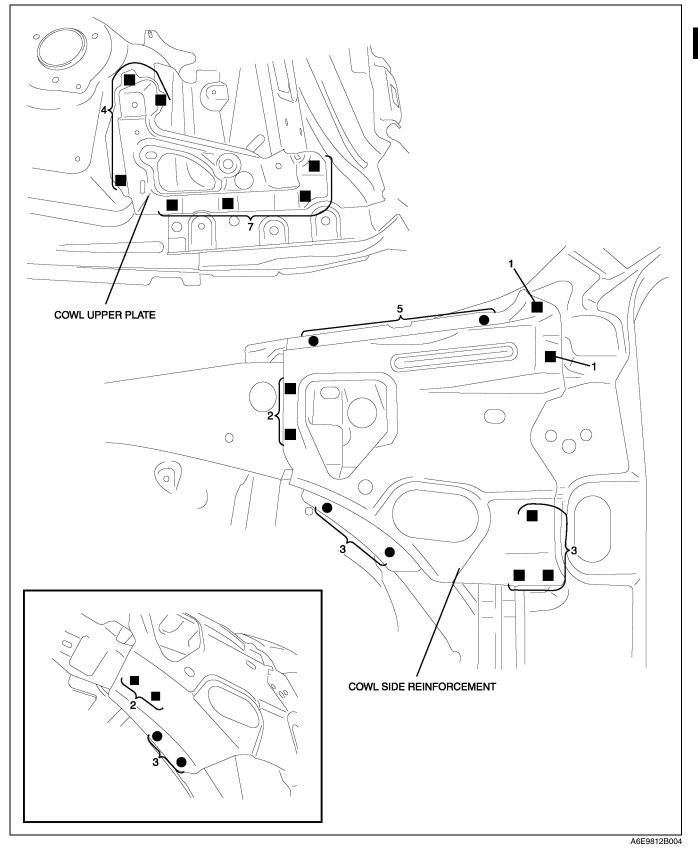
#### Caution

- 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

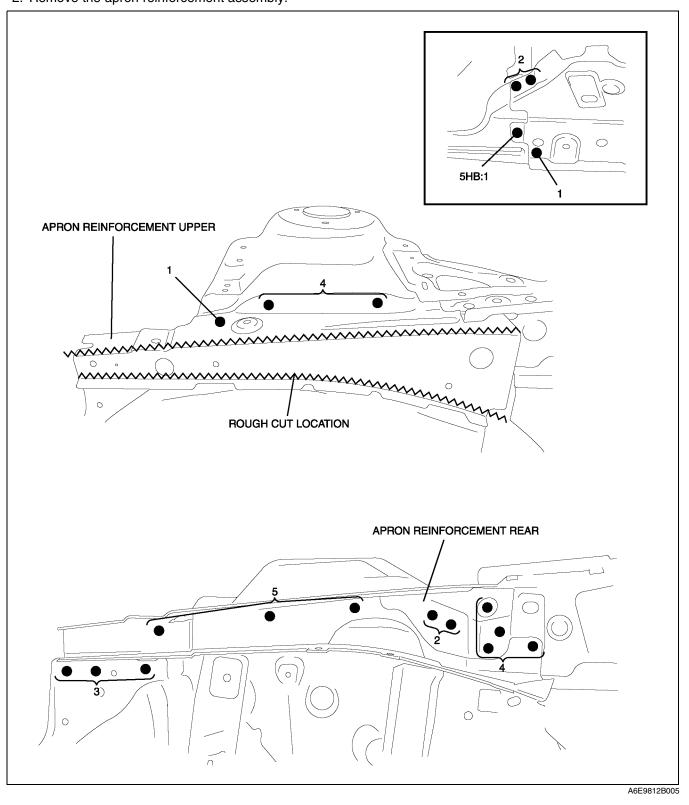
- When installing new parts, position each part so that the section measurement aligns to the body dimension.
   Drill holes for plug welds before installing new parts.
   After trial-fitting new parts, make sure the related parts fit properly.



# APRON REINFORCEMENT ASSEMBLY REMOVAL

A6E981253260B01

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



## APRON REINFORCEMENT ASSEMBLY INSTALLATION

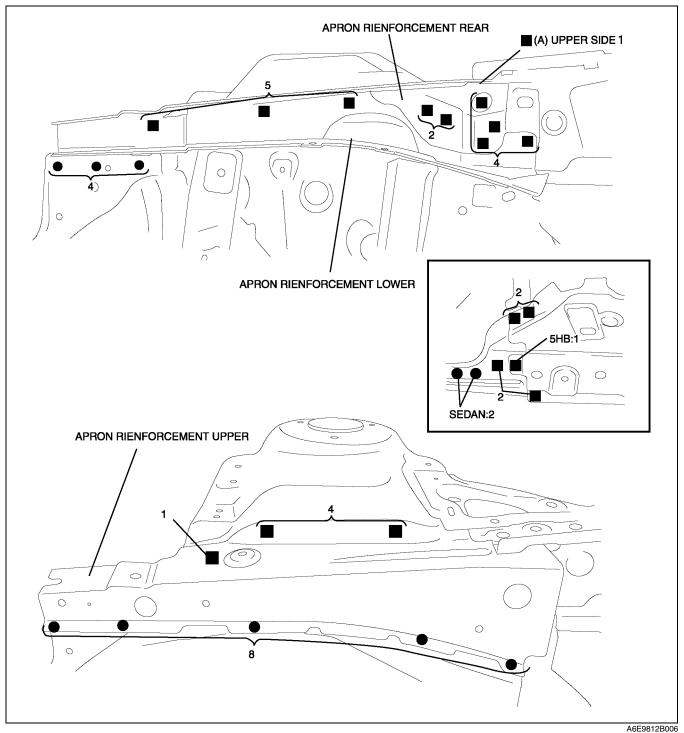
- 1. When installing new parts, position each part so that the section measurement aligns to the body dimension.
- 2. Drill holes for plug welds before installing new parts.
- 3. Install in the following order: apron reinforcement lower, apron reinforcement rear, and apron reinforcement upper.

#### 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.

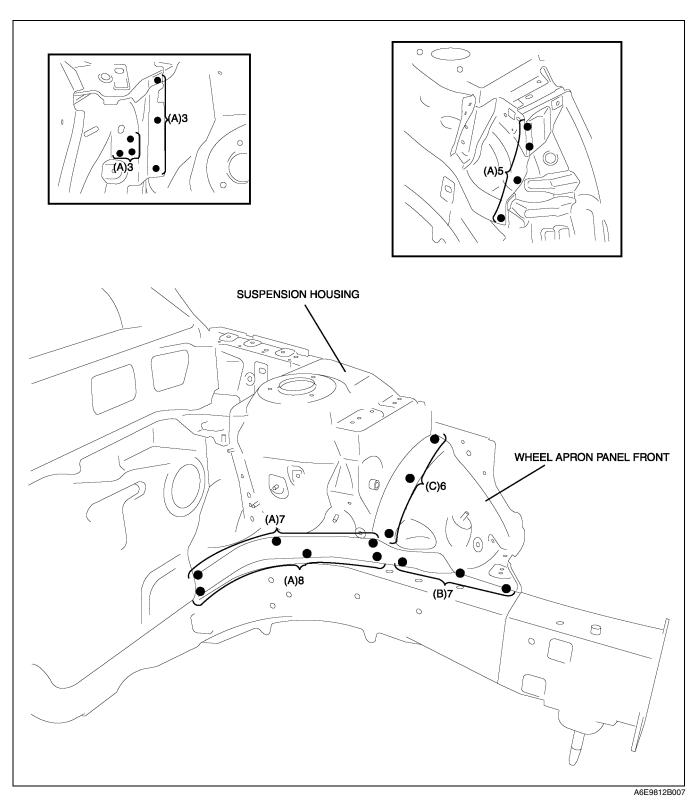


# WHEEL APRON PANEL ASSEMBLY REMOVAL

 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).

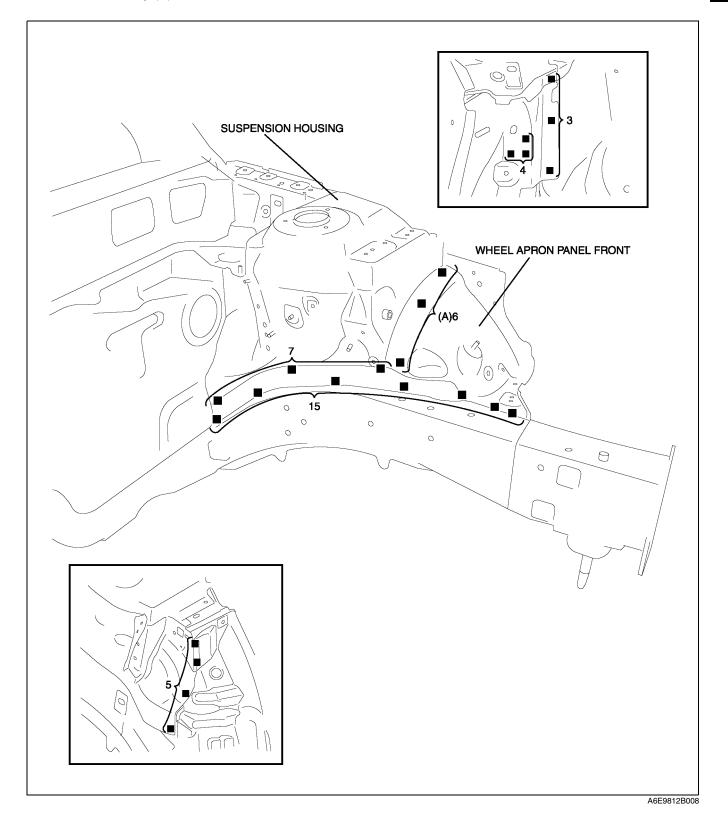


## WHEEL APRON PANEL ASSEMBLY INSTALLATION

- 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

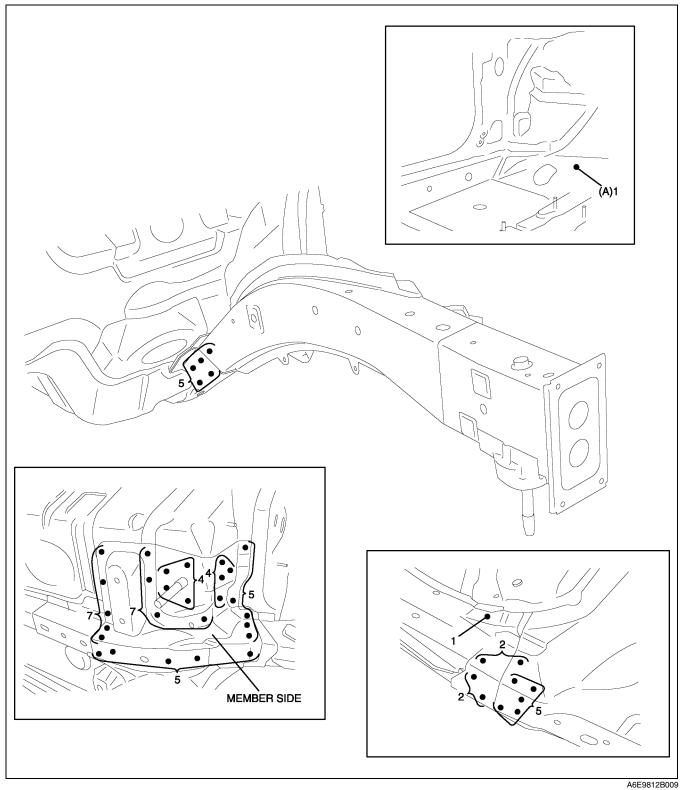
• When replacing the wheel apron panel front and the suspension housing separately, weld 6 locations indicated by (A).



# FRONT SIDE FRAME REMOVAL

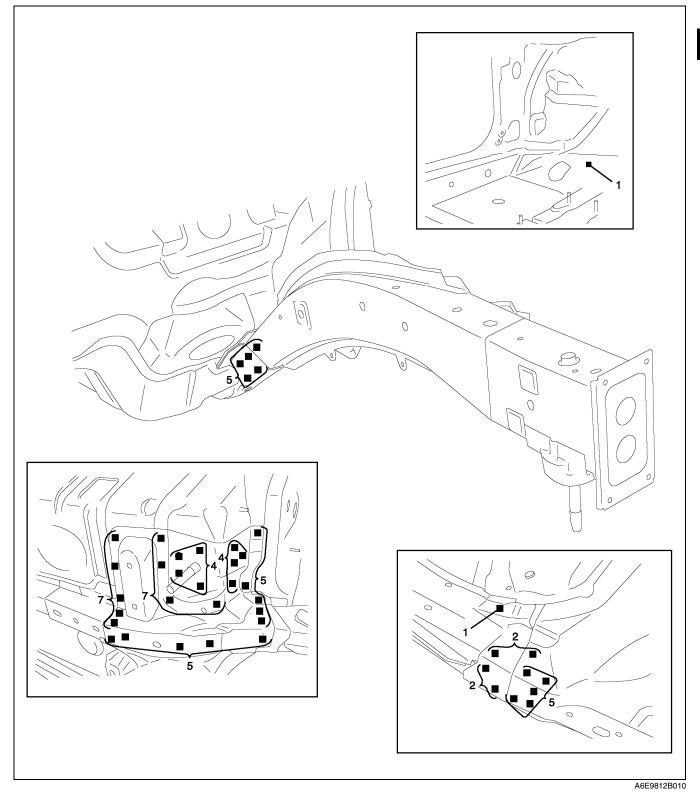
- 1. Remove the member side.

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

- 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.

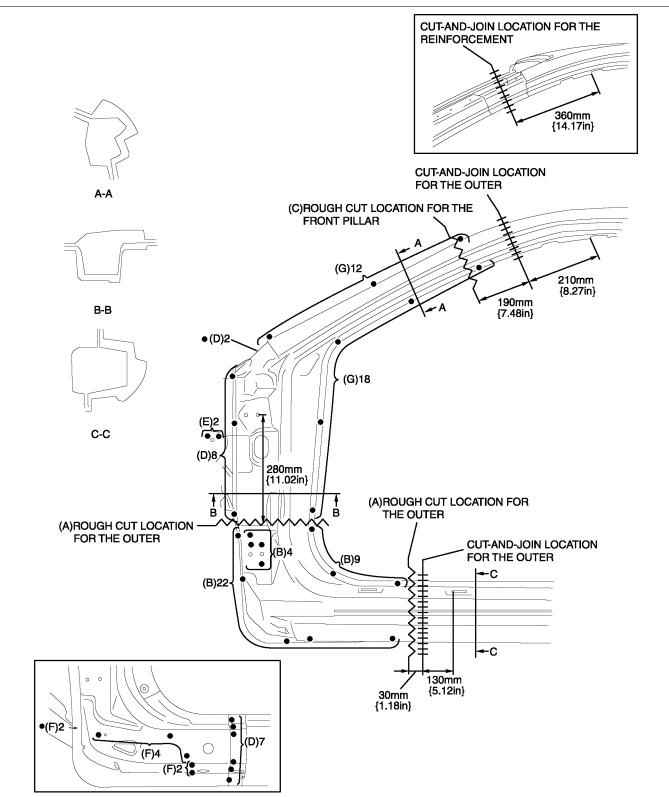


# FRONT PILLAR REMOVAL

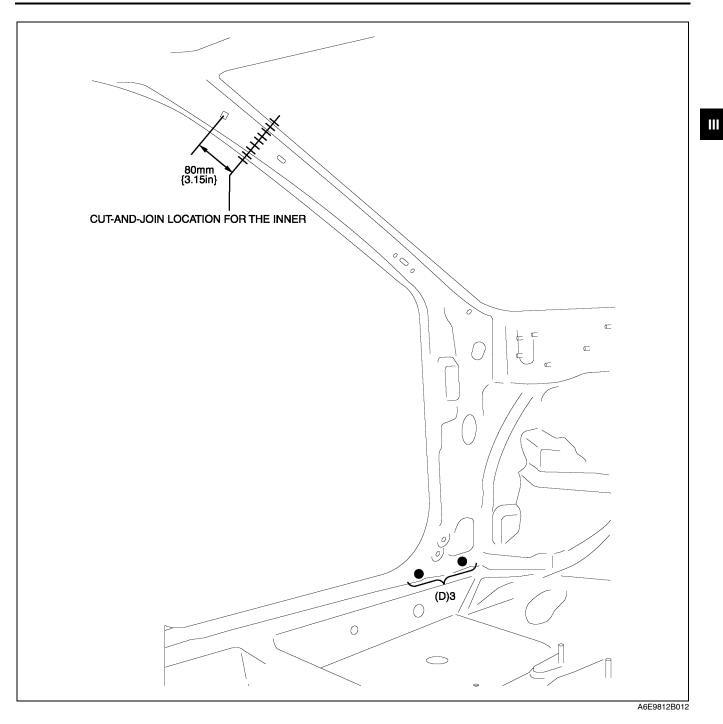
- Rough cut area (A), drill the 35 weld locations indicated by (B), then remove the lower part of the front pillar outer.
- 2. Rough cut area (C), drill the 20 weld locations indicated by (D), and 2 weld locations indicated by (E), then remove the front pillar.

#### 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).



# PANEL REPLACEMENT



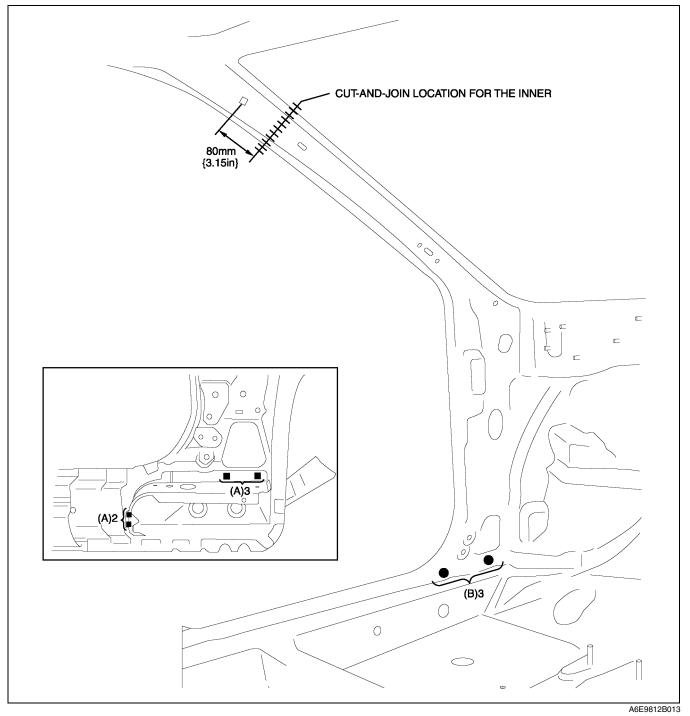
### FRONT PILLAR INSTALLATION

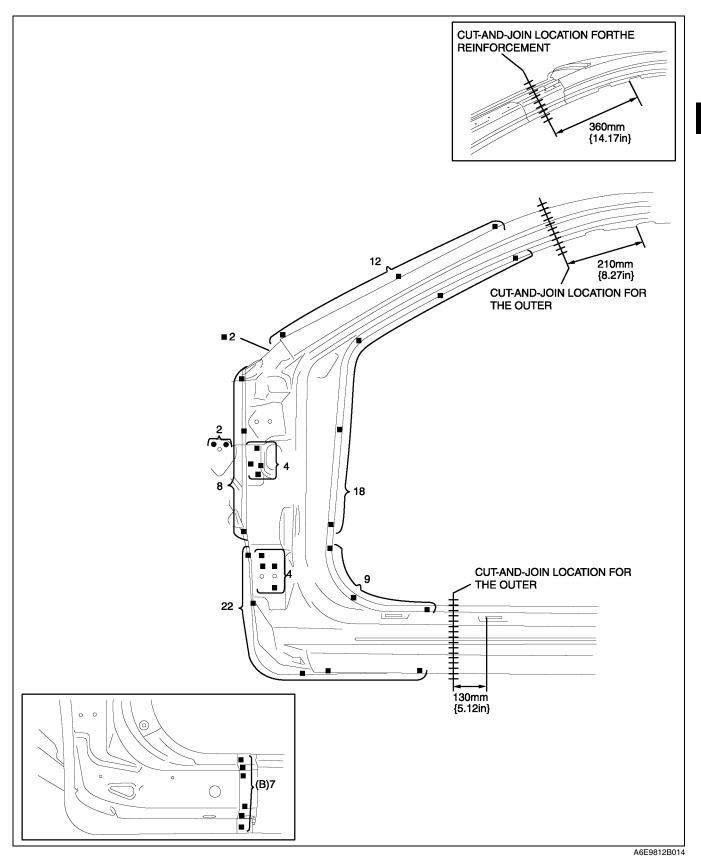
A6E981274090B02

- 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

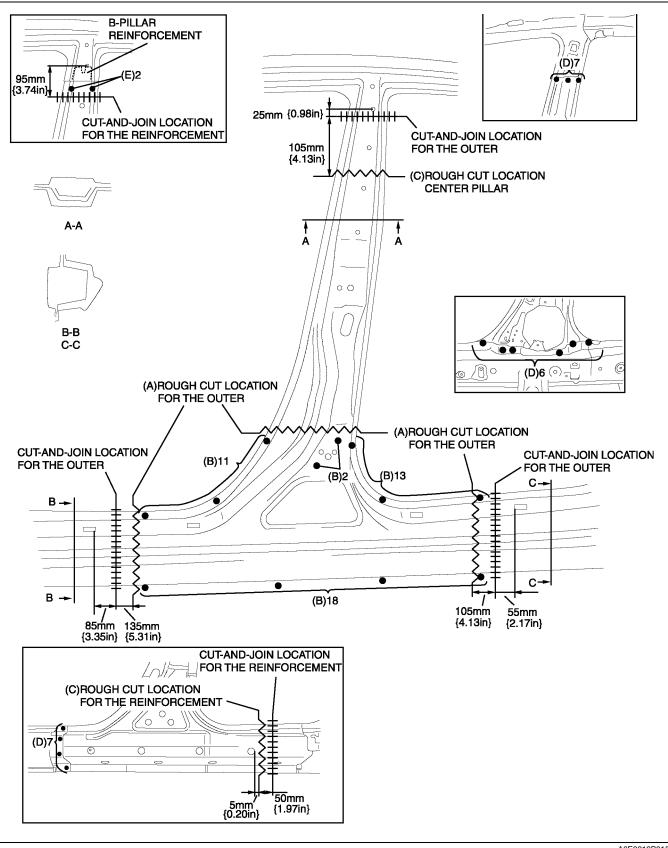
- In areas where the outer, reinforcement, inner, etc. are in 3-4 layers, drill holes for plug welds in all but the innermost panel.
- 3. Weld in 5 locations indicated by (A), then trial-fit the inner and reinforcement.
- 4. Weld in 10 locations indicated by (B), then install the inner and reinforcement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





# **CENTER PILLAR REMOVAL**

- Rough cut area (A), drill the 44 weld locations indicated by (B), then remove the lower part of the center pillar outer.
- 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.



A6E9812B015

# **CENTER PILLAR INSTALLATION**

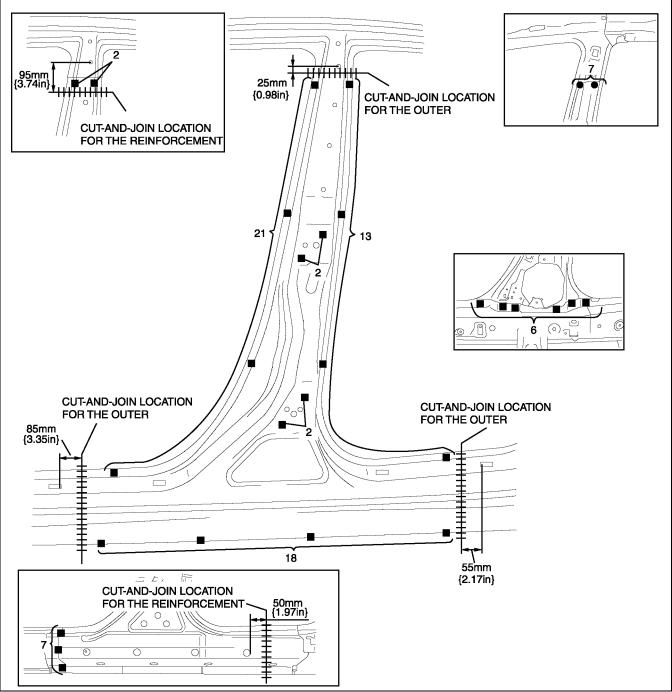
- When joining the new and old parts, temporarily install and fit the new part in position, measure each dimension according to the body dimension, then adjust the position to align it to the standard dimensions.
- 2. Drill holes for plug welds before installing new parts.

### 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.

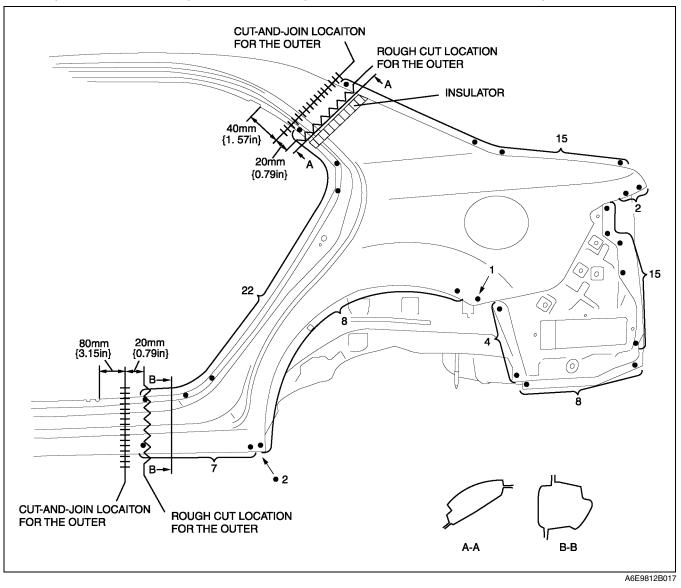


# REAR FENDER PANEL REMOVAL SEDAN

A6E981274100B01

# Caution

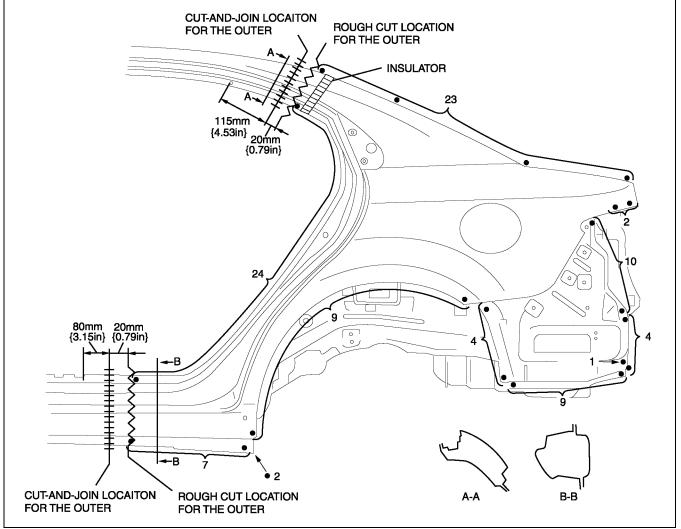
- Avoid cutting with a blowtorch or similar tools as the insulator (shaded area) is flammable.
- 1. The rear fender panel and the rear pillar inner are joined with glue at the wheel arch line. Use a chisel or other to separate the rear fender panel from the rear pillar inner, then remove the rear fender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



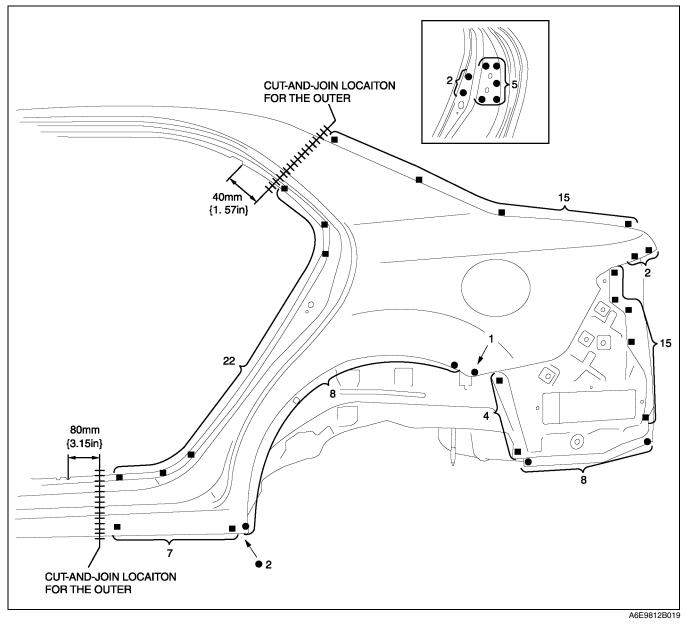
A6E9812B018

# REAR FENDER PANEL INSTALLATION

A6E981274100B02

# SEDAN

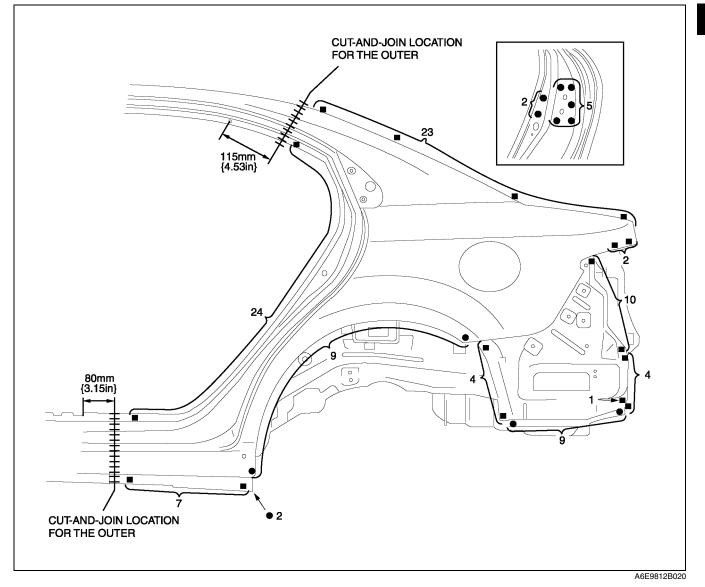
- 1. When joining the new and old parts, temporarily install and fit the new part in position, measure each dimension according to the body dimension, then adjust the position to align it to the standard dimensions.
- 2. Drill holes for plug welds before installing new parts.
- 3. Before installing new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



# 5HB

- 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.

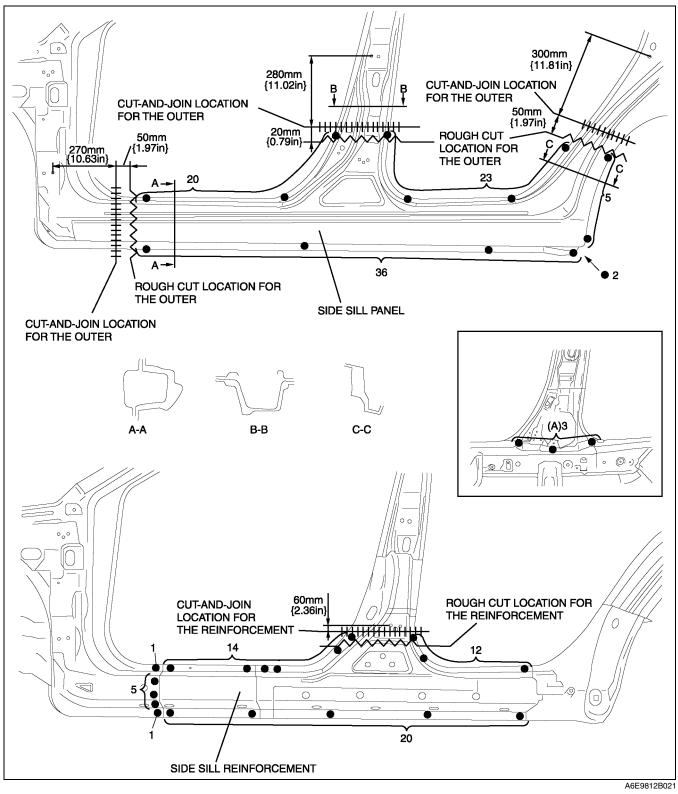
- 4. After trial-fitting new parts, make sure the related parts fit properly.



# SIDE SILL PANEL REMOVAL

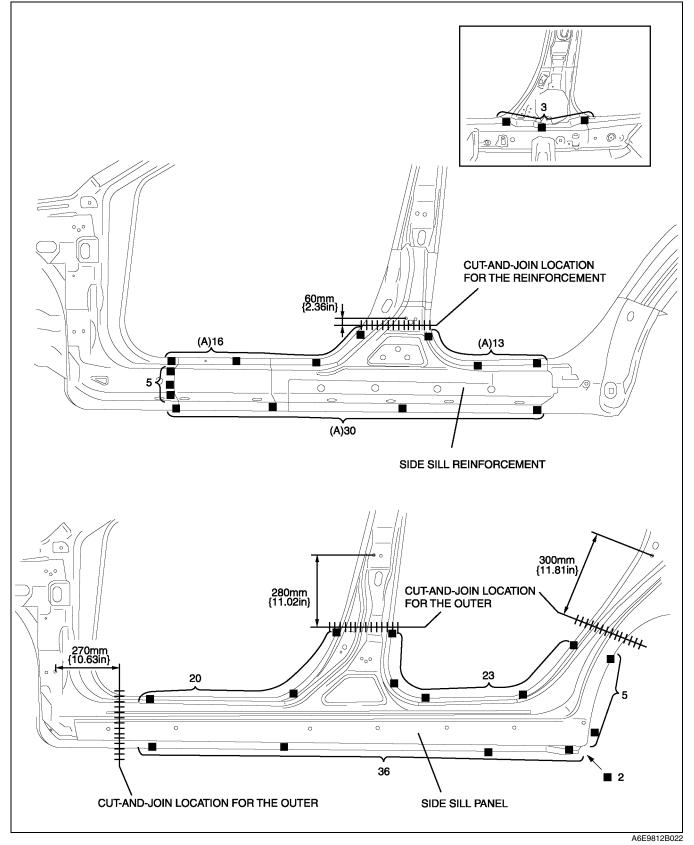
A6E981270270B01

- 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

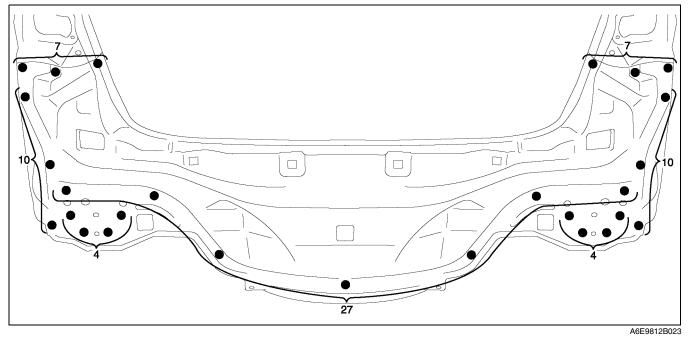
- 1. When joining the new and old parts, temporarily install and fit the new part in position, measure each dimension according to the body dimension, then adjust the position to align it to the standard dimensions.
- 2. Drill holes for plug welds before installing new parts.
- 3. Plug welding of 59 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.



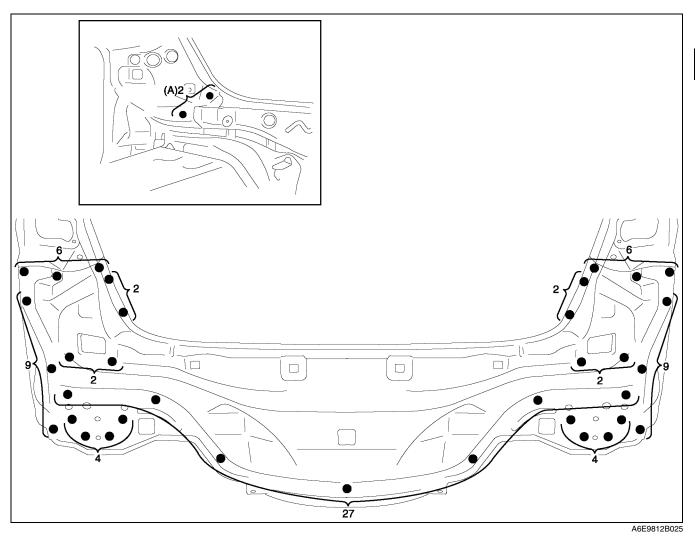
# REAR END PANEL REMOVAL

A6E981270750B01

**SEDAN** 1. Remove the rear end panel.



- 5HB1. Drill the 2 weld locations indicated by (A), from the room side.2. Remove the rear end panel.

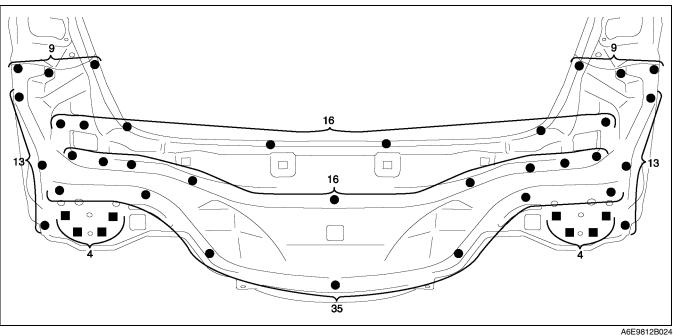


# **REAR END PANEL INSTALLATION**

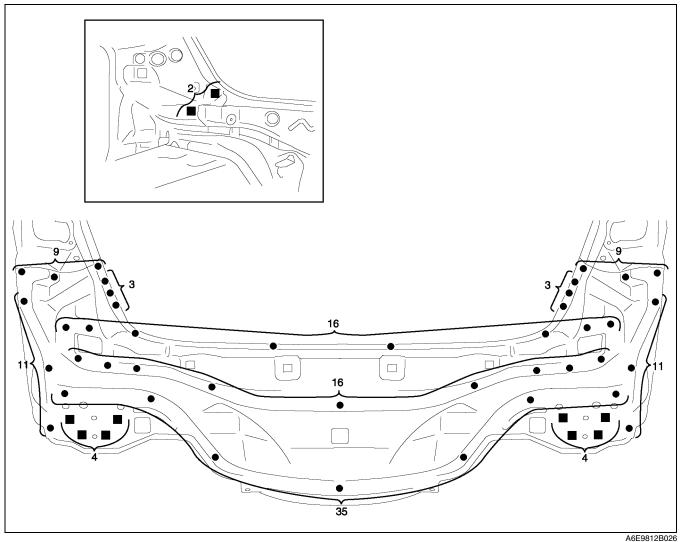
A6E981270750B02

# SEDAN

- 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
  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.



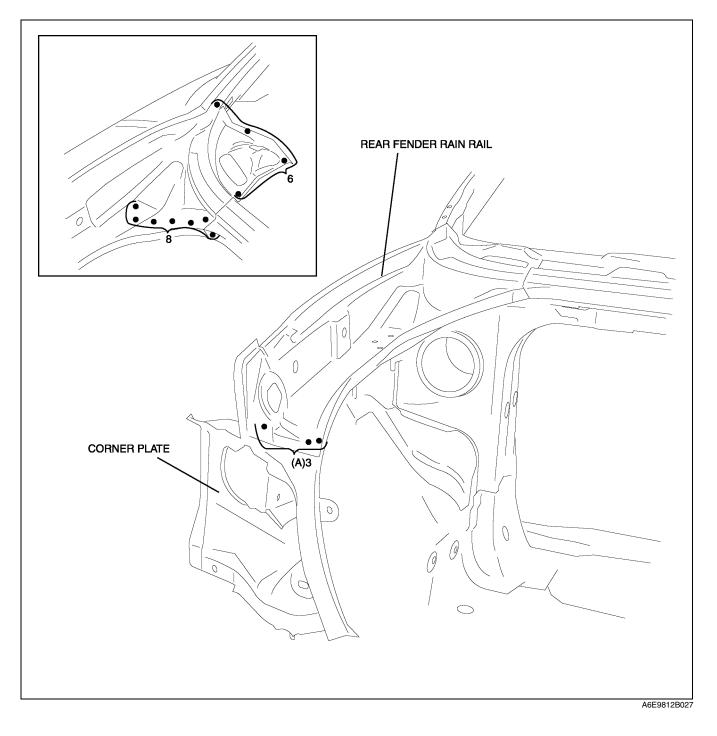
# REAR FENDER RAIN RAIL AND CORNER PLATE REMOVAL

# SEDAN

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).

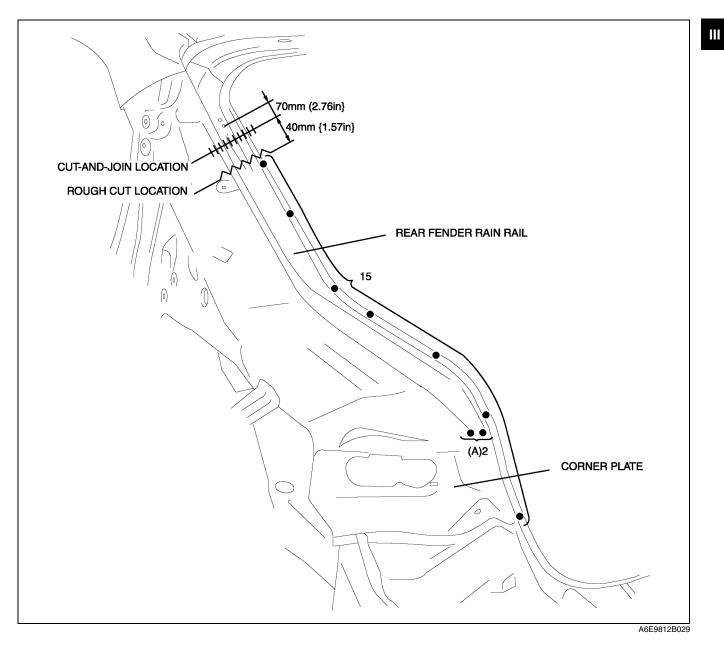


# 5HB

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

# Note

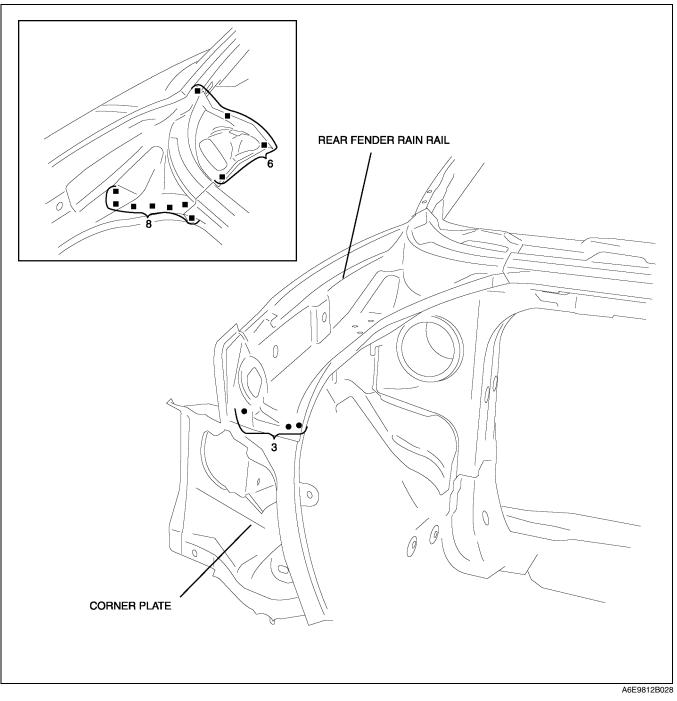
• When removing the rear fender rain rail and the corner plate separately, drill 2 locations indicated by (A).



# REAR FENDER RAIN RAIL AND CORNER PLATE INSTALLATION

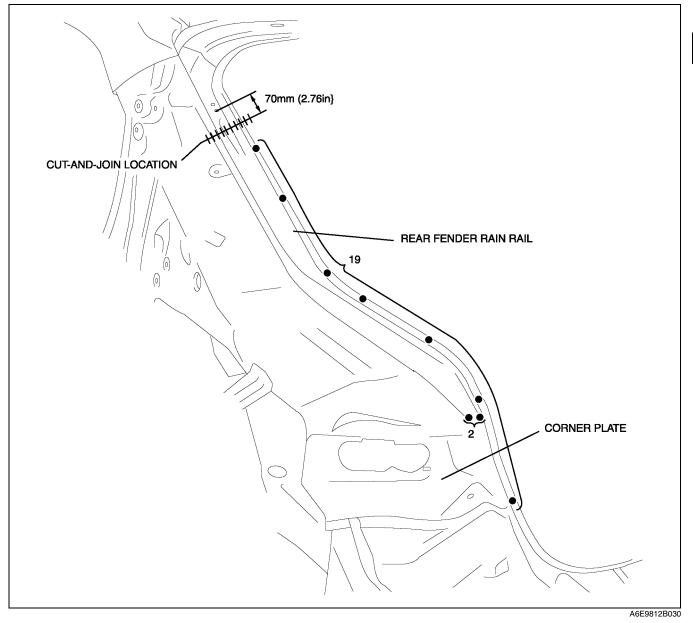
# SEDAN

- 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

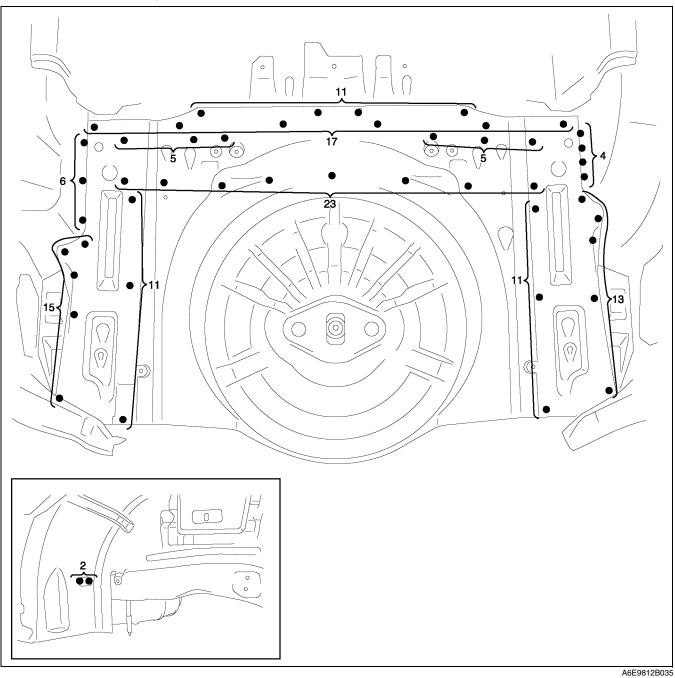
- When joining the new and old parts, temporarily install and fit the new part in position, measure each dimension according to the body dimension, then adjust the position to align it to the standard dimensions.
   After trial-fitting new parts, make sure the related parts fit properly.



# REAR FLOOR PAN REMOVAL

1. Remove the rear floor pan.

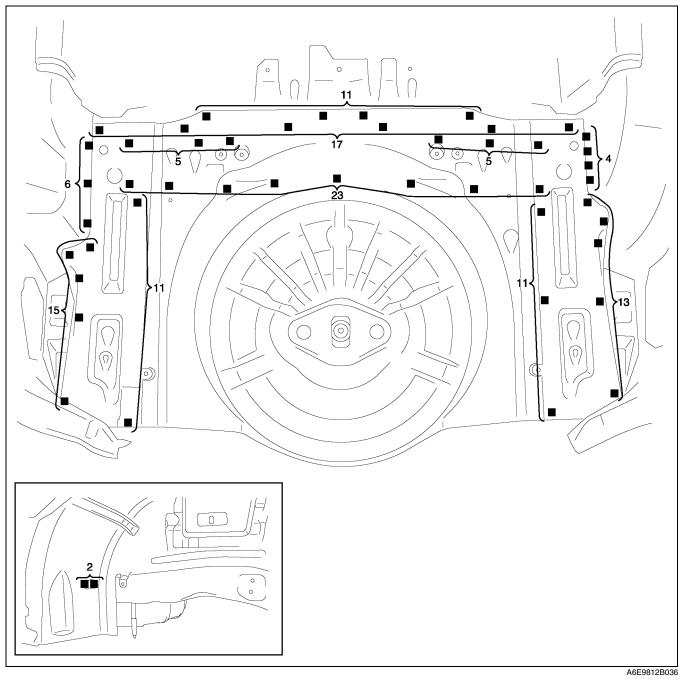
A6E981253750B01



# **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.

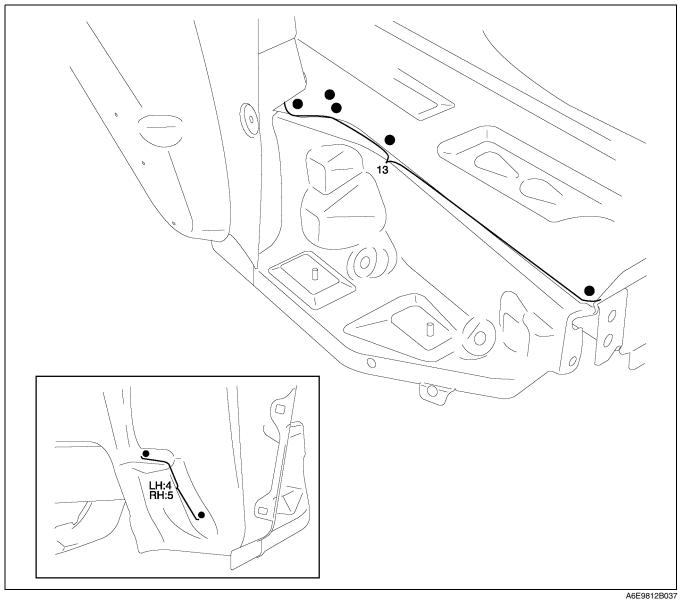
A6E981253750B02



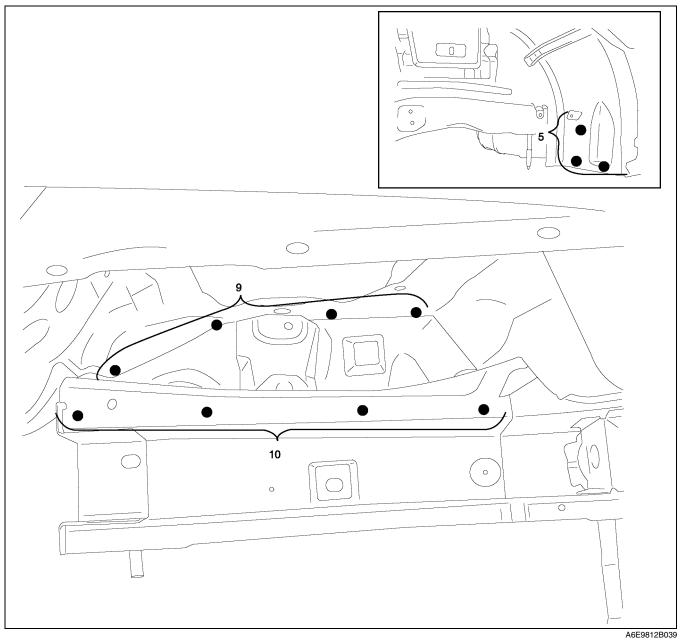
# FLOOR SIDE PANEL REMOVAL

A6E981253730B01

**SEDAN** 1. Remove the floor side panel.



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

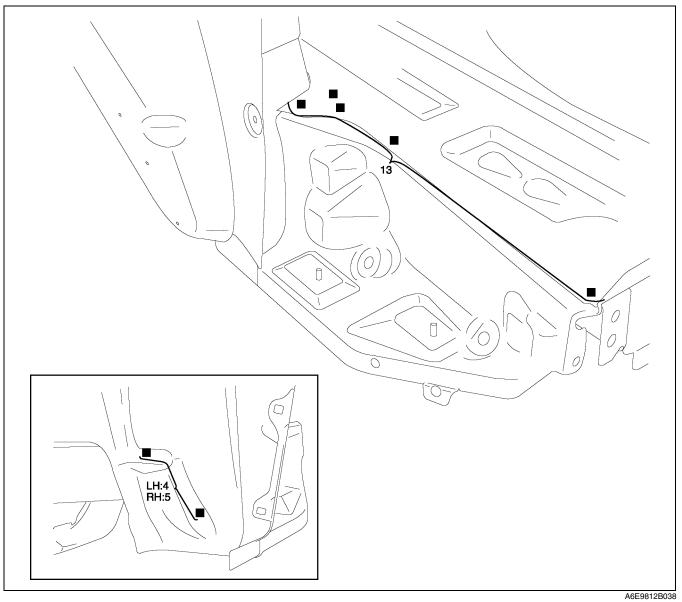


# FLOOR SIDE PANEL INSTALLATION

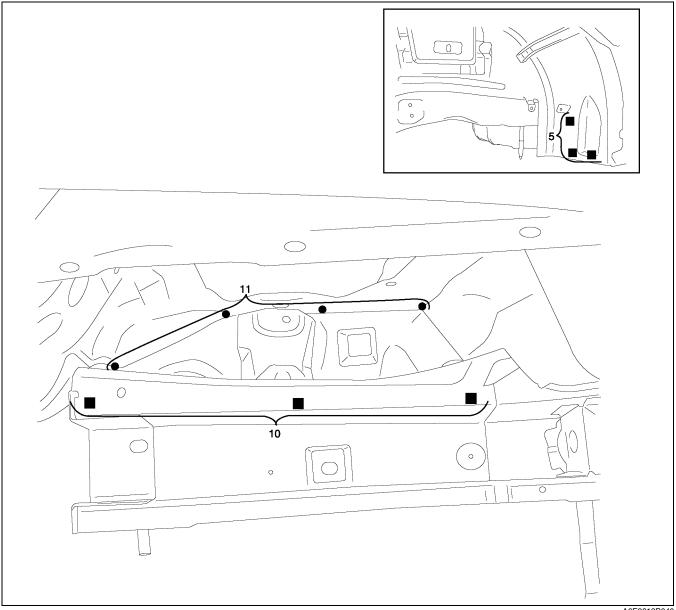
A6E981253730B02

# SEDAN

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



- 5HB1. Drill holes for plug welds before installing new parts.2. After trial-fitting new parts, make sure the related parts fit properly.

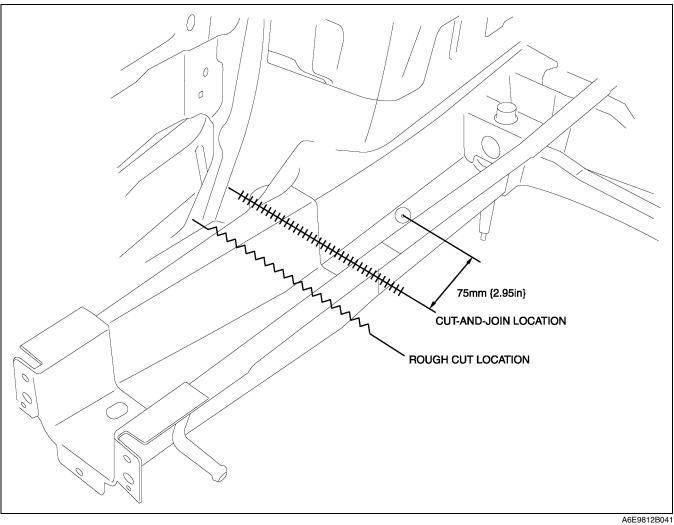


A6E9812B040

# REAR SIDE FRAME (PARTIAL CUTTING) REMOVAL

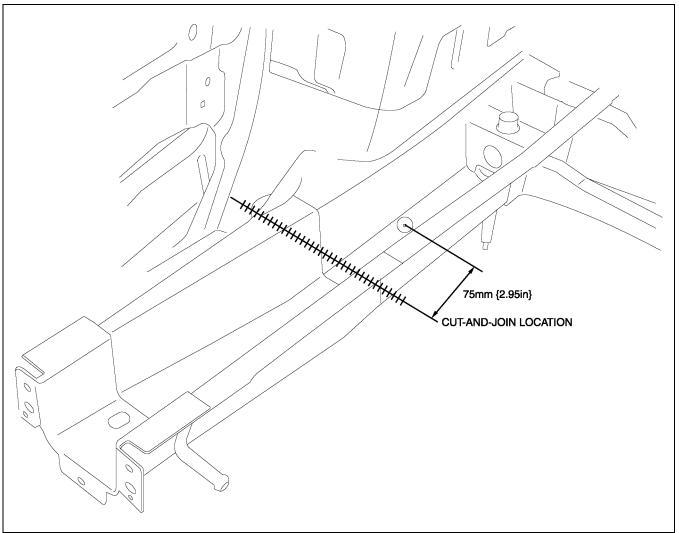
1. Rough cut and remove the damaged part of the rear side frame.

A6E981253815B01



# REAR SIDE FRAME (PARTIAL CUTTING) INSTALLATION

- 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.



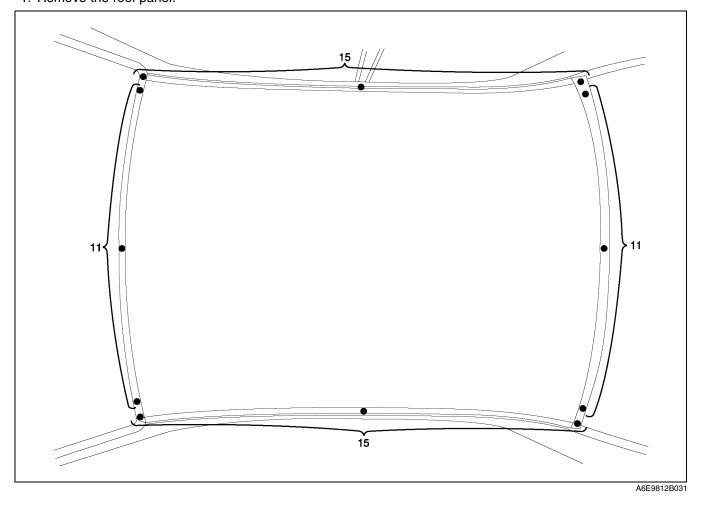
A6E9812B042

A6E981253815B02

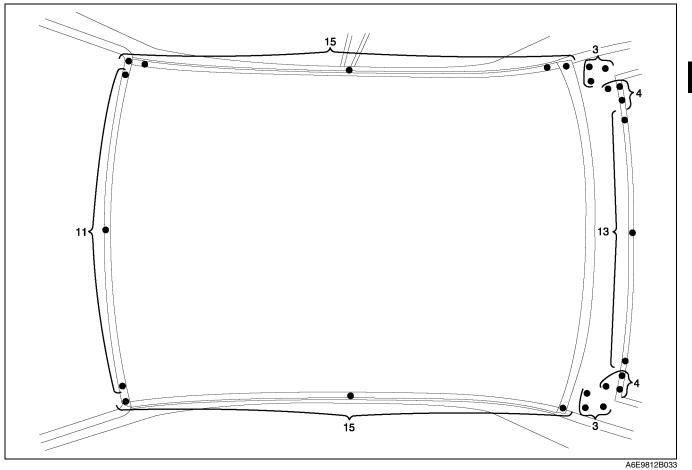
# **ROOF PANEL REMOVAL**

### A6E981270600B01

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



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

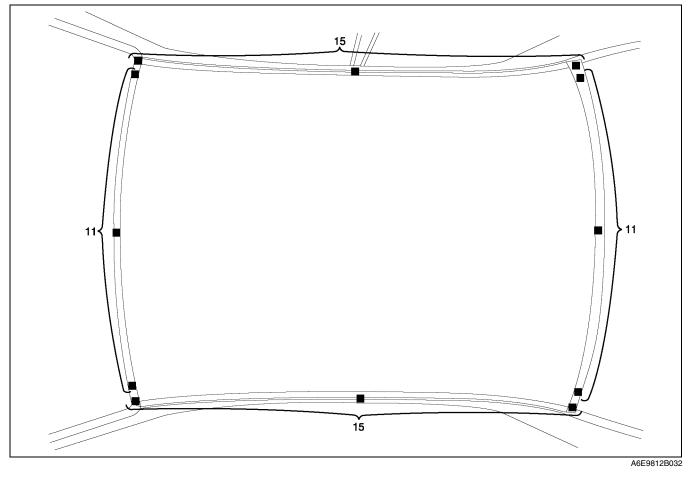


# **ROOF PANEL INSTALLATION**

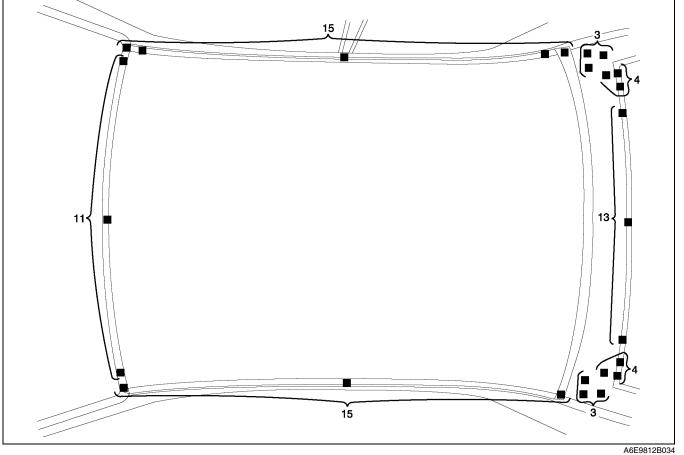
A6E981270600B02

# SEDAN

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



- 5HB1. Drill holes for plug welds before installing new parts.2. After trial-fitting new parts, make sure the related parts fit properly.

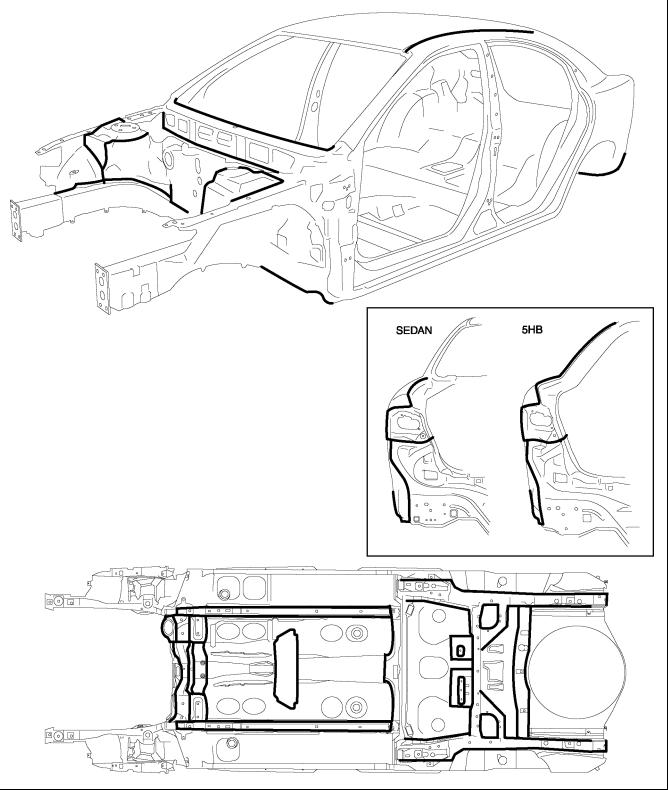


# WATER-PROOF AND RUST PREVENTIVE

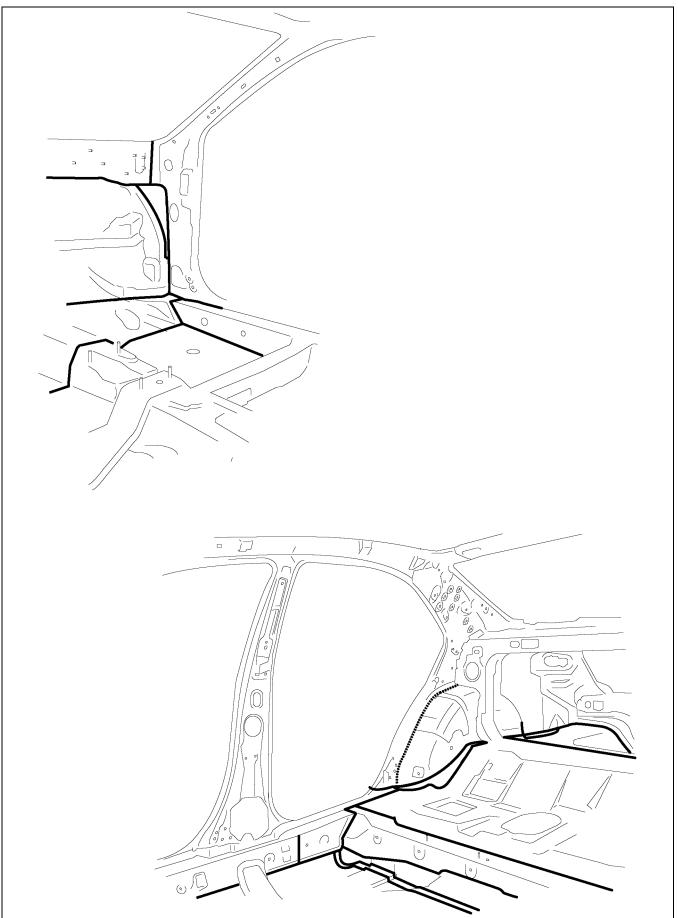
TREATMENT	IV-2
BODY SEALING	IV-2
UNDER COATING	IV-5
CHIPPING-RESISTANT COATING	IV-6
RUST PREVENTIVE TREATMENT	IV-7

# **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.

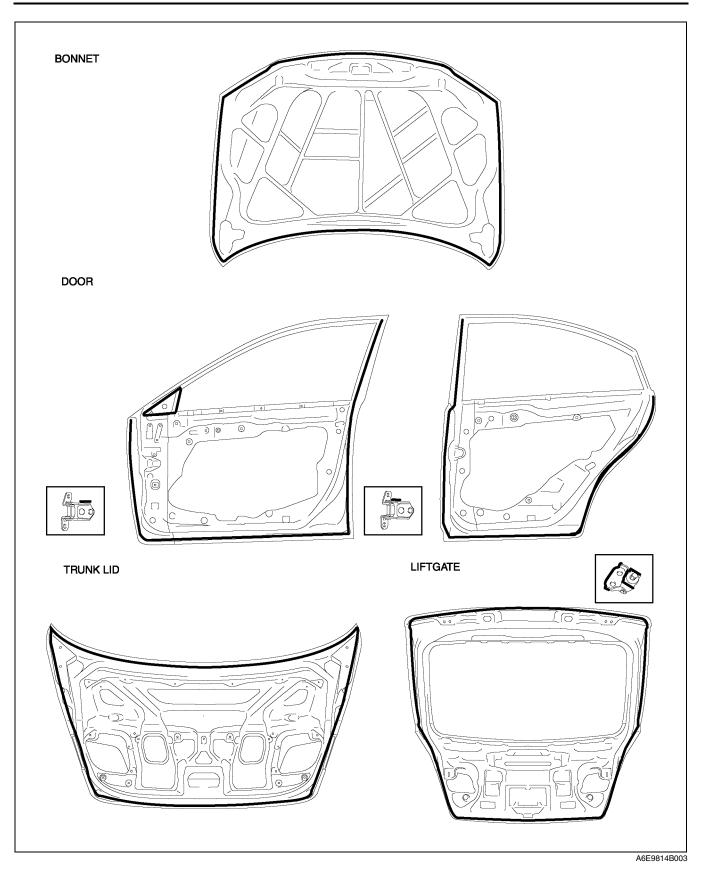


A6E9814B001



A6E9814B002

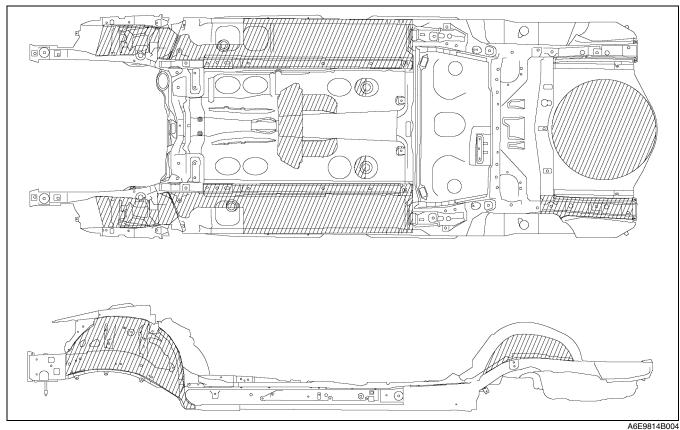
IV



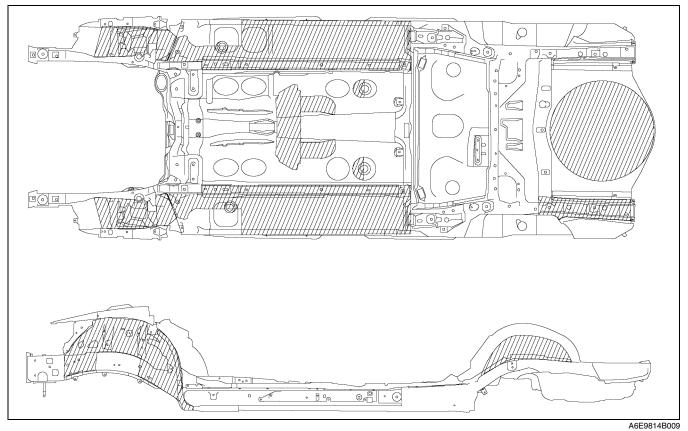
# **UNDER COATING**

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

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



# GCC specs

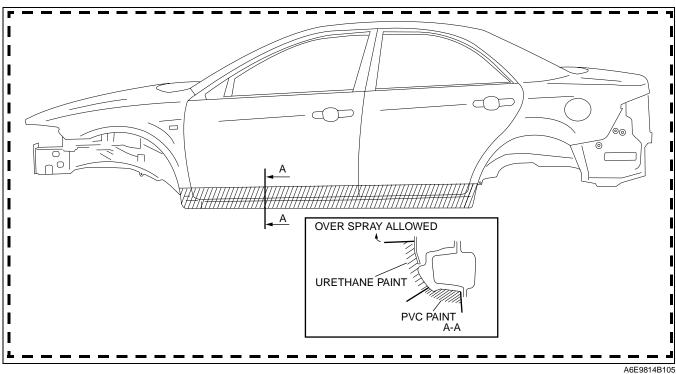


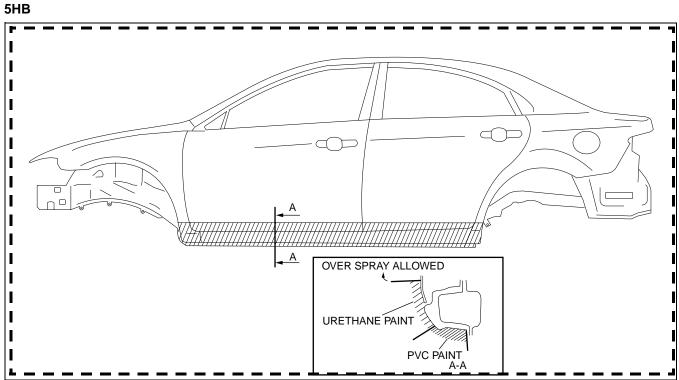
A6E981407000B02

CHIPPING-RESISTANT COATING The coating locations are indicated by the shaded areas.

A6E981407000B04

# SEDAN



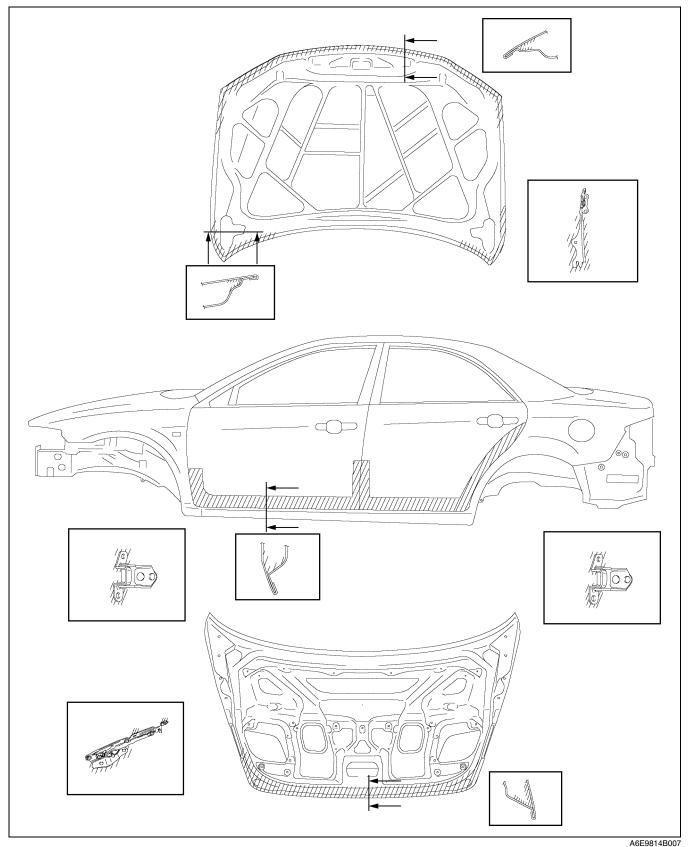


A6E9814B106

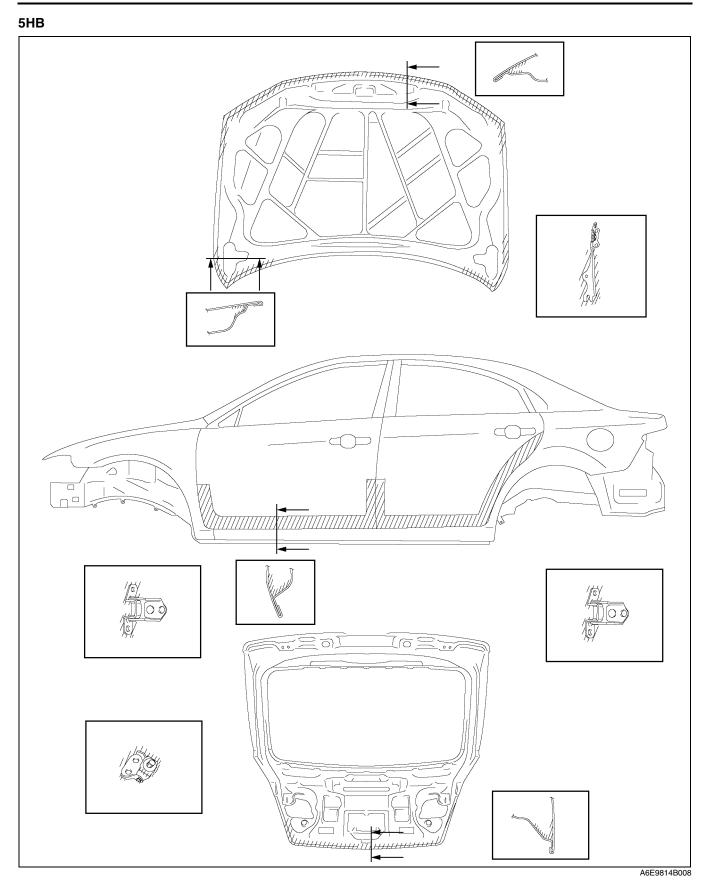
# RUST PREVENTIVE TREATMENT

The coating locations are indicated by the shaded areas.

SEDAN



IV



# DIMENSIONS

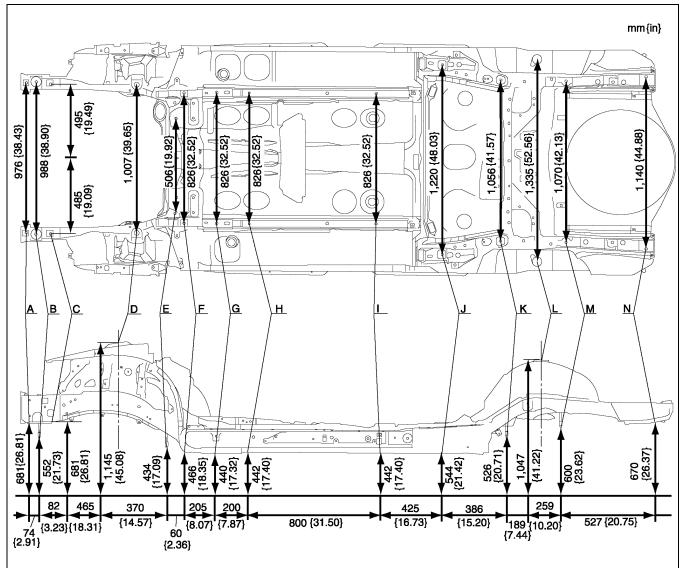
DIMENSIONS	.V-2
UNDERBODY FLAT-PLANE DIMENSIONS	
UNDERBODY STRAIGHT-LINE	
DIMENSIONS	.V-3
FRONT BODY STRAIGHT-LINE	
DIMENSIONS (1)	.V-4
FRONT BODY STRAIGHT-LINE	
DIMENSIONS (2)	.V-5
CABIN SIDE FRAME STRAIGHT-LINE	
DIMENSIONS	. V-6
ROOM STRAIGHT-LINE DIMENSIONS (1)	. V-8
ROOM STRAIGHT-LINE DIMENSIONS (2)	
REAR BODY STRAIGHT-LINE DIMENSIONS	<b>√-11</b>

V

### DIMENSIONS

## DIMENSIONS

#### UNDERBODY FLAT-PLANE DIMENSIONS



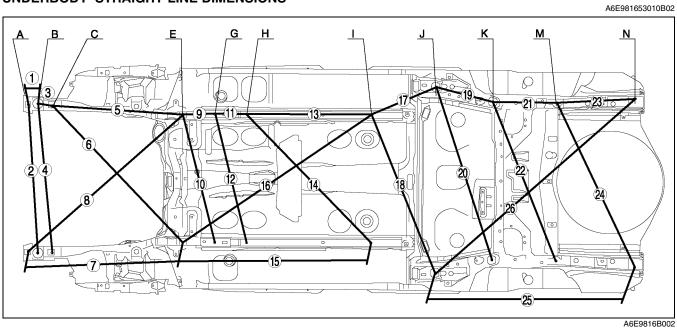
A6E9816B001

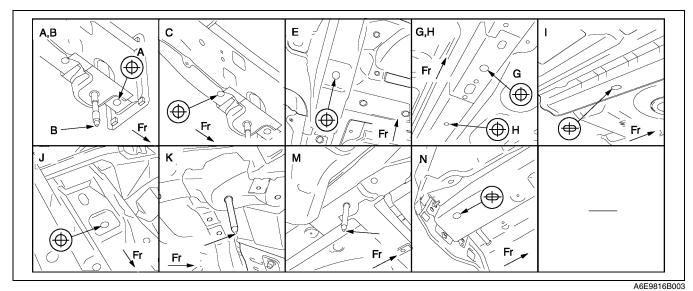
A6E981653010B01

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}
E	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}
	Front B frame standard hole	14 × 20
1		$\{0.55  imes 0.79\}$
J	Rear side frame standard hole	ø20 {0.79}
К	Rear crossmember mounting bolt	M14 {0.55}
L	Rear suspension housing bolt	M6 {0.24}
М	Rear crossmember mounting bolt	M14 {0.55}
Ν	Rear side frame standard hole	16 × 20
		$\{0.63\times0.79\}$

### UNDERBODY STRAIGHT-LINE DIMENSIONS





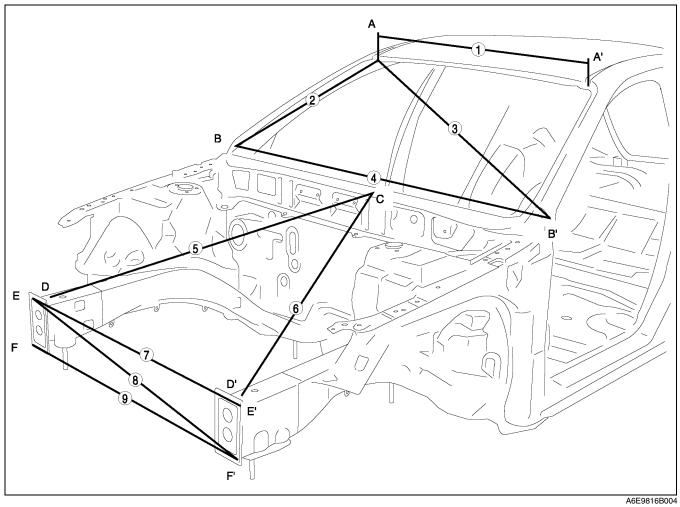
Measured location	Dimensions mm {in}
1	149 {5.87}
2	993 {39.09}
3	RH:152 {5.98}, LH:153 {6.02}
4	RH:991 {39.02}, LH:1,001 {39.41}
5	RH:924 {36.38}, LH:923 {36.34}
6	RH:1,293 {50.91}, LH:1,286 {50.63}
7	1,076 {42.36}
8	1,401 {55.16}
9	207 {8.15}
10	851 {33.50}
11	200 {7.87}
12	850 {33.46}
13	800 {31.50}

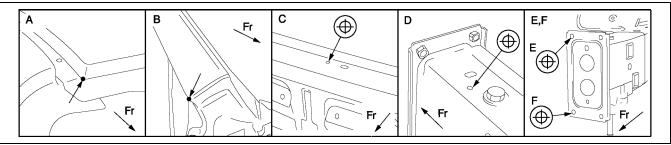
Measured location	Dimensions mm {in}
14	1,150 {45.28}
15	1,205 {47.44}
16	1,461 {57.52}
17	479 {18.86}
18	1,112 {43.78}
19	395 {15.55}
20	1,202 {47.32}
21	454 {17.87}
22	1,156 {45.51}
23	532 {20.94}
24	1,226 {48.27}
25	1,366 {53.78}
26	1,805 {71.06}

V

### FRONT BODY STRAIGHT-LINE DIMENSIONS (1)

A6E981653020B01





A 05	0040	DOOD
Abe	9816	B005

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}

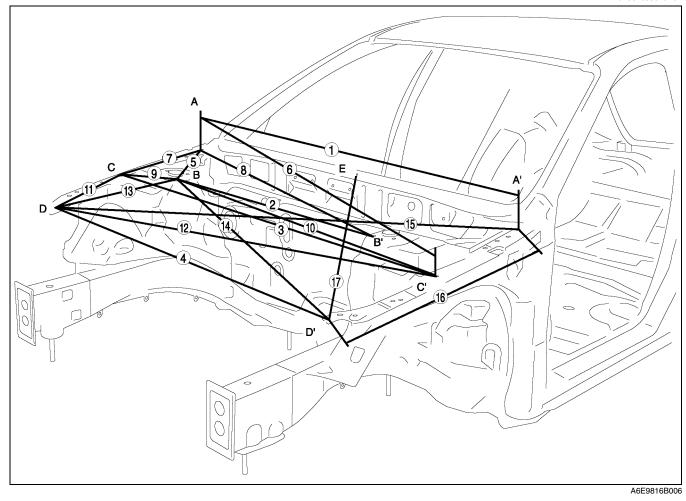
Measured location	Dimensions mm {in}
6	1,085 {42.72}
7	1,070 {42.13}
8	1,084 {42.68}
9	1,070 {42.13}

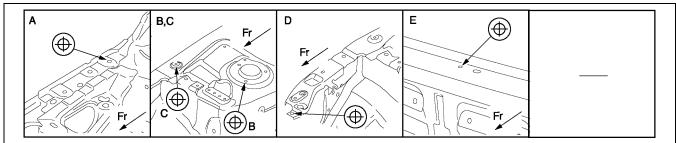
# DIMENSIONS

### FRONT BODY STRAIGHT-LINE DIMENSIONS (2)

A6E981653020B02

V





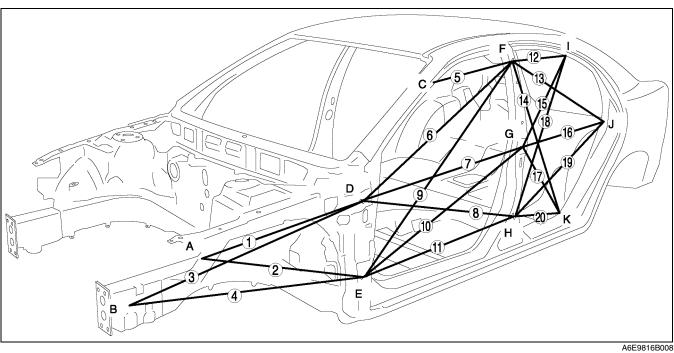
A6E9816B007

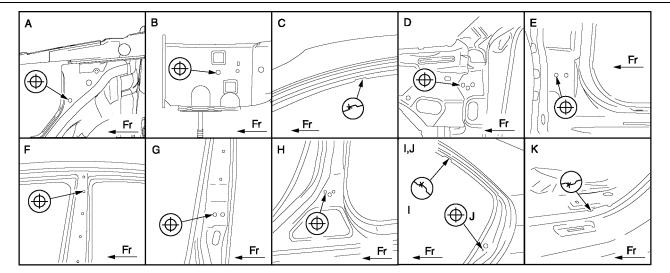
Measured location	Dimensions mm {in}
1	1,480 {58.27}
2	959 {37.76}
3	1,481 {58.31}
4	1,340 {52.76}
5	452 {17.80}
6	1,538 {60.55}
7	418 {16.46}
8	1,274 {50.16}
9	268 {10.55}

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



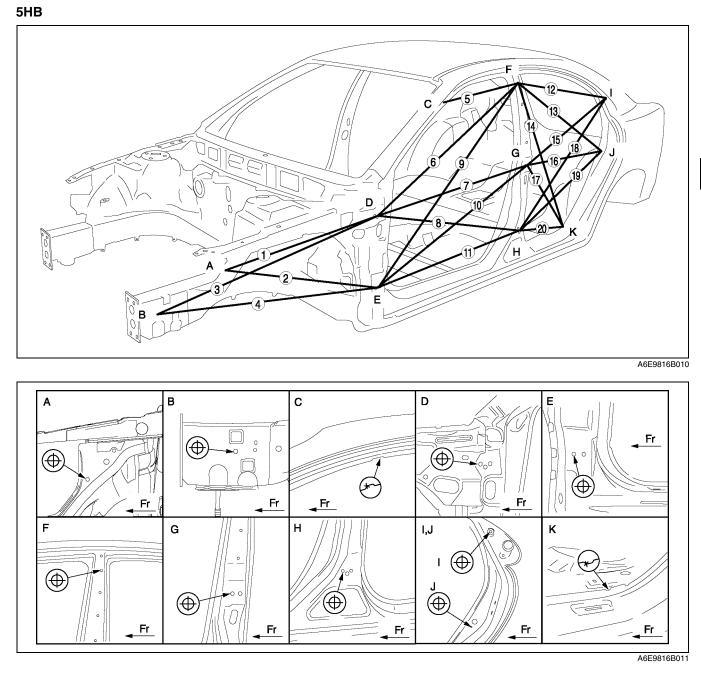


A6E9816B009

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}

# DIMENSIONS



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}

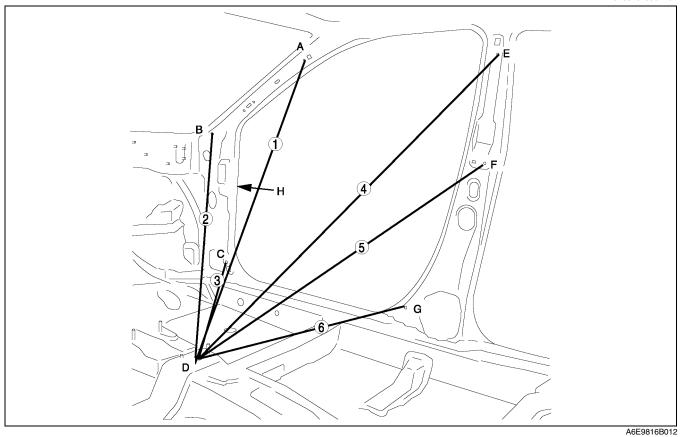
V–7

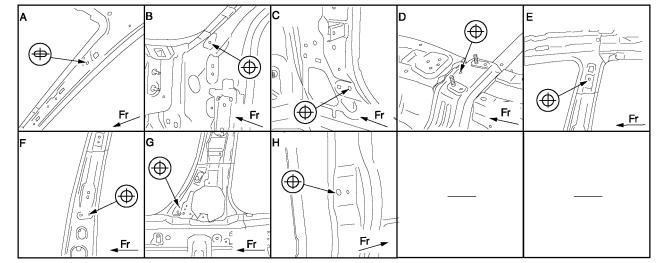
V

# DIMENSIONS

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

A6E981670001B01





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	A6E98	16B0	)13

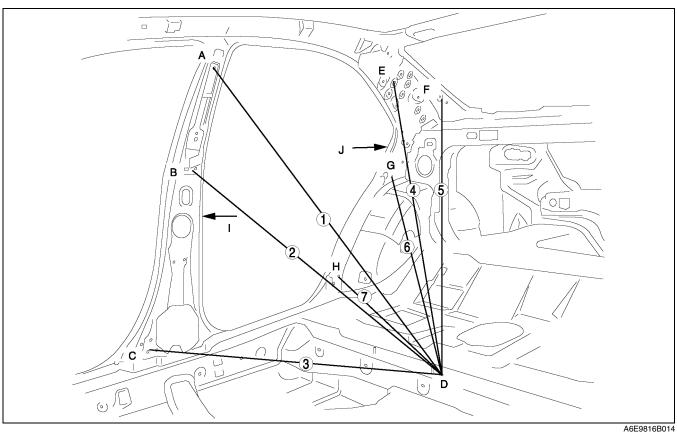
Measured location	Dimensions mm {in}
1	1,024 {40.31}
2	1,098 {43.23}
3	920 {36.22}
4	1,175 {46.26}

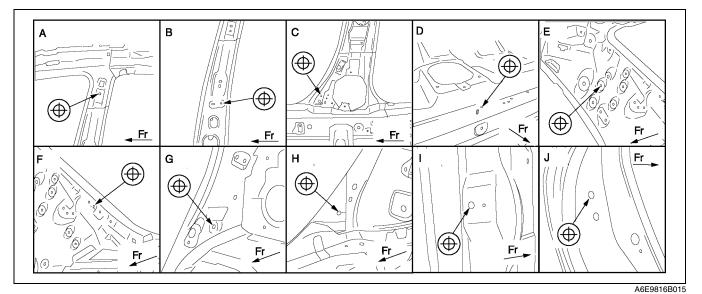
Measured location	Dimensions mm {in}
5	1,010 {39.76}
6	767 {30.20}
H-H'	1,487 {58.54}

#### ROOM STRAIGHT-LINE DIMENSIONS (2) SEDAN

A6E981670001B02

V

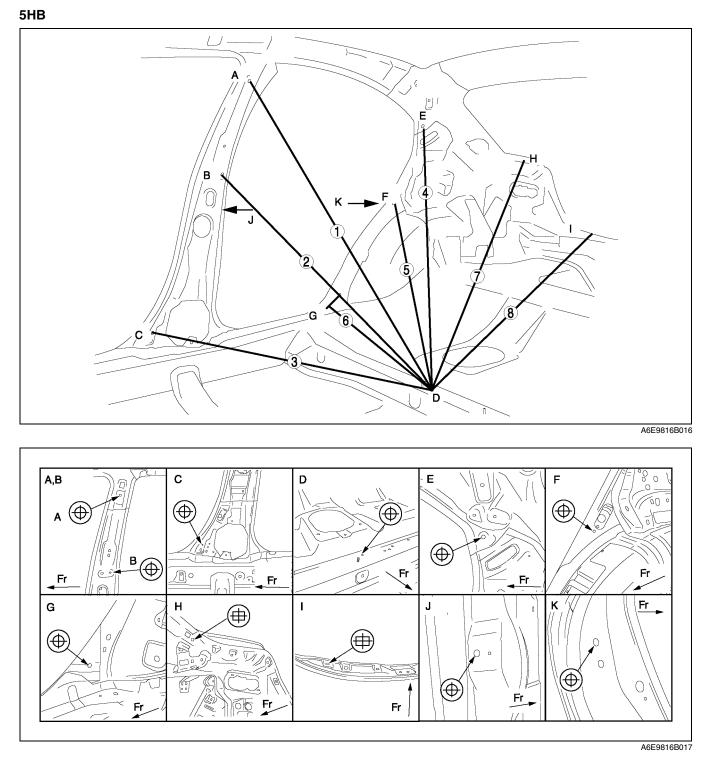




Measured location	Dimensions mm {in}
1	RH:1,141 {44.92}, LH:1,104 {43.46}
2	RH:996 {39.21}, LH:946 {37.24}
3	RH:952 {37.48}, LH:897 {35.31}
4	RH:1,193 {46.97}, LH:1,157 {45.55}
5	RH:1,285 {50.59}, LH:1,252 {49.29}

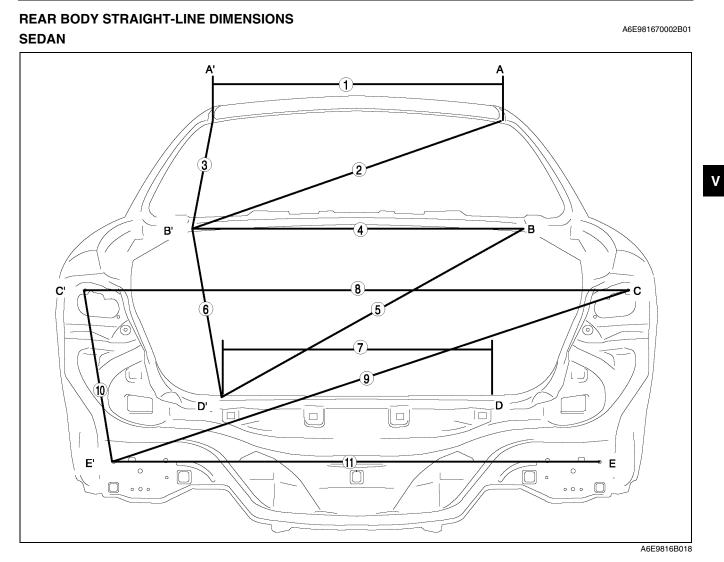
Measured location	Dimensions mm {in}
6	RH:1.079 {42.48}, LH:1,030 {40.55}
7	RH:833 {32.80}, LH:767 {30.20}
I-I'	1,584 {62.36}
J-J'	1,557 {61.30}

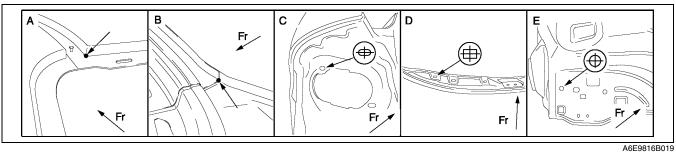
# DIMENSIONS



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}

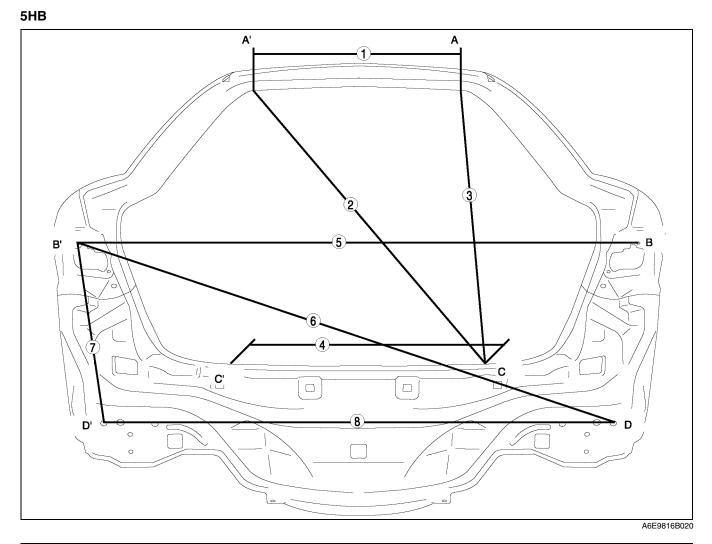
Measured location	Dimensions mm {in}
6	RH:833 {32.80}, LH:767 {30.20}
7	RH:1,402 {55.20}, LH:1,374 {54.09}
8	RH:1,671 {65.79}, LH:1,657 {65.24}
J-J'	1,584 {62.36}
K-K'	1,557 {61.30}

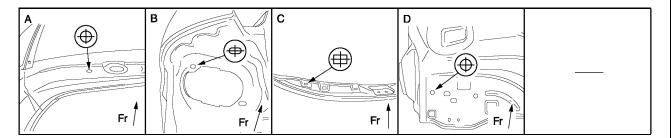




Measured location	Dimensions mm {in}
1	1,013 {39.88}
2	1,273 {50.12}
3	826 {32.52}
4	928 {36.54}
5	969 {38.15}
6	555 {21.85}

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}





A6E9816B021

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}

# **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

PLASTIC PARTS HEAT	RESISTING LEWIP	CRAIURE		A6E981850000B01
Part Na	me	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 LIC	GHT(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

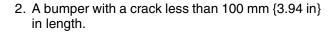
• The application of temperatures higher then heat resisting temperatures may result in part deformation.

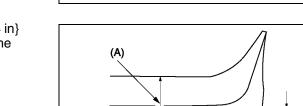
#### **REPAIRABLE RANGE OF POLYPROPYLENE BUMPERS**

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 diameter.

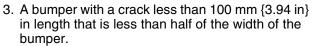


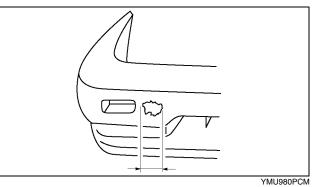


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LESS THAN HALF OF (A)

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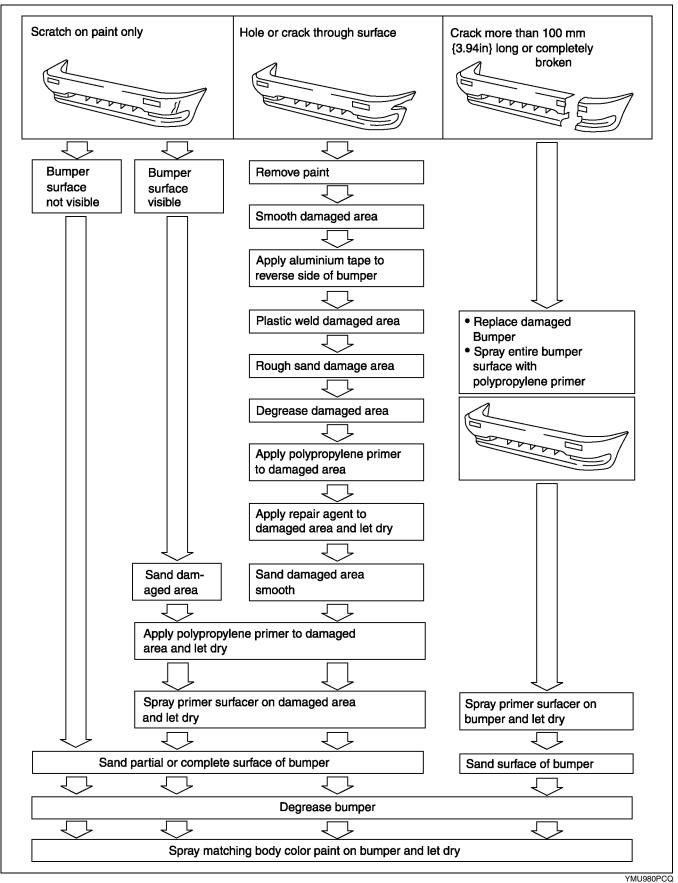
VI

YMU980PCN

YMU980PCP

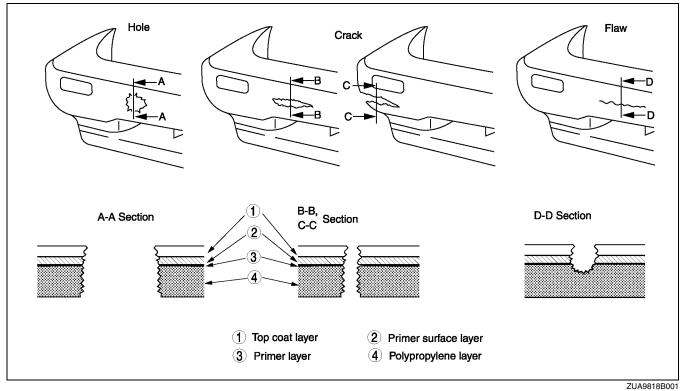
#### POLYPROPYLENE BUMPER REPAIR

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A6E981850010B02
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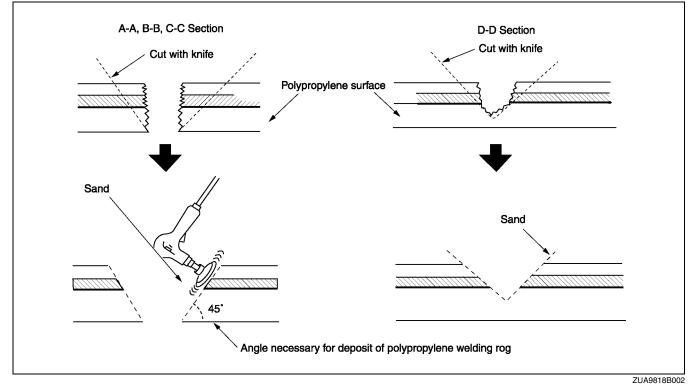


#### PROCEDURE

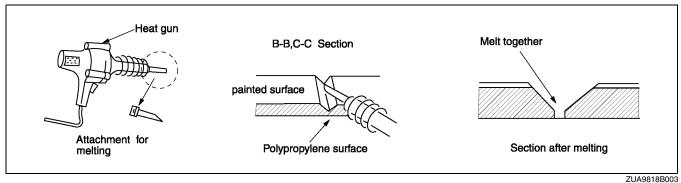
Repair of polypropylene bumpers having damage that has reached the surface of the polypropylene and are too serious to be restored by painting only.



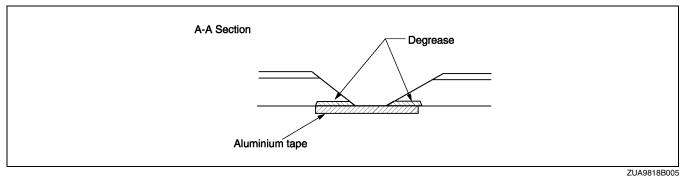
1. Cut the rough edges around the damage with a knife to make it smooth. Sand the area with a sander to make an angle of about 45°.



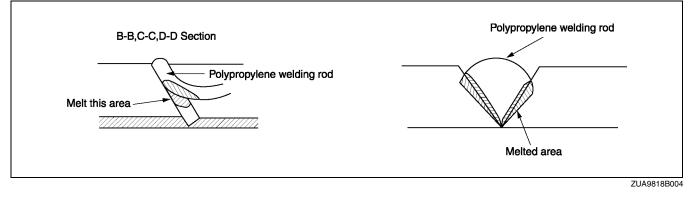
- 2. Weld the damaged area.
  - For repair of a cracked area, melt the crack together with a heat gun and a melting attachment.



 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.

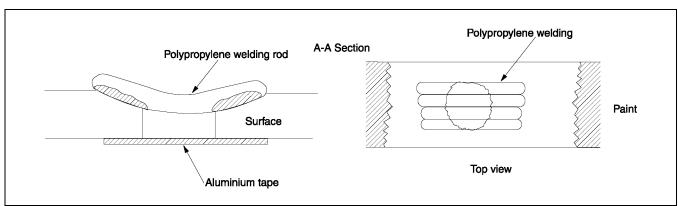


#### 3. Melt the polypropylene welding rod with a heat gun and deposit it the cracked area.

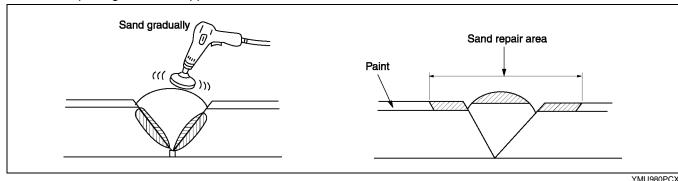


#### Note

- 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.

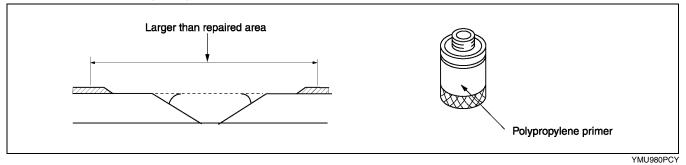


 Sand the surface of the polypropylene gradually as it is easily melted by the abrasion heat. Sand the area to which repair agent will be applied.



VI

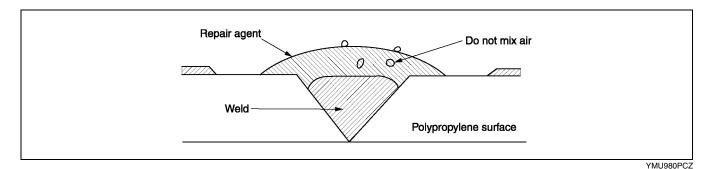
5. Uniformly apply polypropylene primer with a brush to an area larger than the repaired area. Allow to dry about 10 minutes at 20 °C {68 °F}.



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.



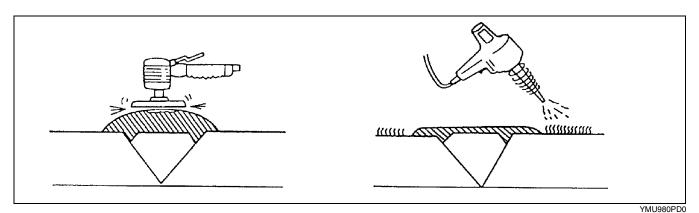
The repair agent is a two part epoxy adhesive.

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.

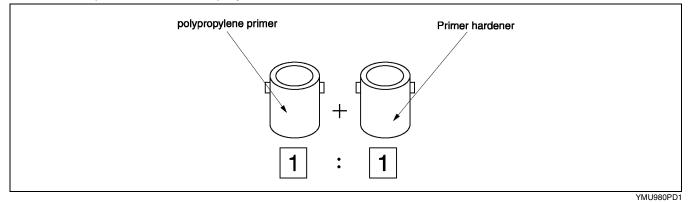
7. Sand the area with #180—240 sandpaper.

#### 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.



- 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.



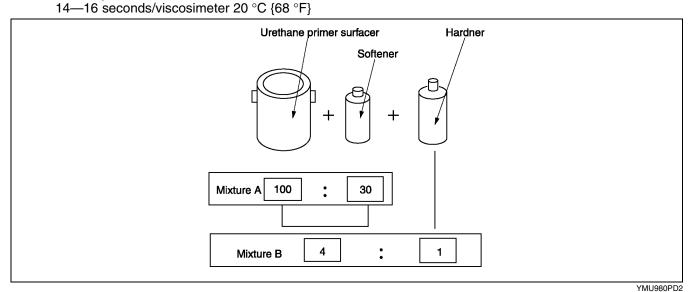
Use the primer within 16 hours after it is mixed.

#### 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



#### 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 μ
- 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 °F} 8 hours minimum. Forced drying 60 °C {140 °F} — 1 hour

#### Note

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

VI-9

VI

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### PRIMARY COLOR MIXTURE CHART FOR BODY COLORS

• 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.

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• Please confirm the newest formula at the following URL.

http://www.sikkenscr.com/sikkens/corporate/index.htm#

			KIND OF PAINT		THANE/POLYUR	ETHANE
COLOR CODE	COLOR NAME		LABEL	AUTOBASE PLUS	AUTOBASE	AUTOCRYL
OODL			INGREDIENTS	CC/CC g{oz}	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}
		400	DEEP BLACK		454.3 {16.02]	
		334YA	YELLOW GOLD PALIOCROM		457.2 {16.13}	
		333DF	SILVER DOLLAR FINE		476.4 {16.80}	
16W	BLACK MC	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}	
		575	BLUE TRANSPARENT		603.9 {21.30}	
18J	18J GRACE GREEN MC	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	POLYXI	THANE/POLYURE	THANE
COLOR CODE	COLOR NAME		LABEL	AUTOBASE PLUS	AUTOBASE	AUTOCRYL
OODL			INGREDIENTS	CC/CC g{oz}	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}	
	IVI	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			
		Q452	LIGHT YELLOW	332.9 {11.74}		
		Q235	BRILLIANT RED ORANGE TRANSPARENT	340.0 {11.99}		
		Q437	BRIGHT YELLOW OXIDE	473.5 {16.70}		
		Q455	BRIGHT YELLOW	621.7 {21.93}		
		Q110	WHITE	799.1 {28.19}		
		Q065	BINDER	1,037.8 {36.61}		
			SECOND COAT			
		Q070	TRANSPARENCY ENHANCER	357.1 {12.60}		
		Q911 H	XIRALLIC CRYSTAL SILVER	410.3 {14.47}		
25C		Q941 H	XIRALLIC SUNBEAM GOLD	547.0 {19.29}		
	MC	Q190	WHITE GRAY TRANSPARENT	736.9 {25.99}		
		Q065	BINDER	957.0 {33.76}		
			FIRST COAT			
		297	LIGHT YELLOW		521.4 {18.39}	
		744	MIXING BLACK		525.2 {18.53}	
		360	RED OXIDE		542.4 {19.13}	
		361			607.0 {21.41}	
		00			1,077.2 {38.00}	
		666	SECOND COAT		746.4 {26.33}	
			XIRALLIC CRYSTAL			
		332XS	SILVER XIRALLIC SUNBEARN		794.2 {28.01}	
		332XG	GOLD		861.2 {30.38}	
		777	LIGHT GRAY		956.9 {33.75}	

			KIND OF PAINT	POLYXI	THANE/POLYURE	THANE
COLOR CODE	COLOR NAME		LABEL	AUTOBASE PLUS	AUTOBASE	AUTOCRYL
CODE			INGREDIENTS	CC/CC g{oz}	CC/CC g{oz}	CC/CC g{oz}
			FIRST COAT			
		Q110	WHITE	851.9 {30.05}		
 		Q437	BRIGHT YELLOW OXIDE	852.8 {30.08}		
		Q160	MIXING BLACK	854.0 {30.12}		
		Q065	BINDER	1,109.1 {39.12}		
			SECOND COAT			
		Q070	TRANSPARENCY ENHANCER	455.2 {16.06}		
8		Q911 H	XIRALLIC CRYSTAL SILVER	580.1 {20.46}		
25D	SNOWFLAKE WHITE	Q190	WHITE GRAY TRANSPARENT	735.0 {25.93}		
	PEARL MC	Q065	BINDER	954.5 {33.67}		
			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}	
I			SECOND COAT			
<b>P</b>		332XS	XIRALLIC CRYSTAL SILVER		479.4 {16.91}	
		332XG	XIRALLIC SUNBEARN GOLD		527.3 {18.60}	
		777	LIGHT GRAY		647.1 {22.83}	
		666	CORRECTION BINDER		958.7 {33.82}	
		332VA	VIOLET PEARL		390.6 {13.78}	
		777	LIGHT GRAY		401.1 {14.15}	
		956	VIOLET-RED TRANSPARENT		425.1 {14.99}	
25E	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		THANE/POLYURE	THANE
COLOR CODE	COLOR NAME		LABEL	AUTOBASE PLUS	AUTOBASE	AUTOCRYL
			INGREDIENTS	CC/CC g{oz}	CC/CC g{oz}	CC/CC <u>g{</u> oz}
		Q923 H	XIRALLIC RADIANT RED	346.6 {12.23}		
		Q231	BRILLIANT RED	361.2 {12.74}		
		Q140	DEEP BLACK	387.4 {13.66}		
		Q941 H	XIRALLIC SUNBEAM GOLD	429.7 {15.16}		
		Q271	RED MAROON TRANSPARENT	491.6 {17.34}		
		Q190	WHITE GRAY TRANSPARENT	603.2 {21.28}		
25F	GARNET RED MC	Q726	VIOLET RED TRANSPARENT	747.4 {26.36}		
		Q065	BINDER	970.7 {34.24}		
		334XR	XIRALLIC RADIANT RED		352.2 {12.42}	
		400	DEEP BLACK		378.8 {13.36}	
		538	BRIGHT MAROON TRANSPARENT		449.2 {15.84}	
		777	LIGHT GRAY		543.1 {19.16}	
		956	VIOLET-RED TRANSPARENT		746.6 {26.34}	
		262	RED TRANSPARENT		973.5 {34.34}	
		333DC	SILVER DOLLAR METALLIC COARSE		409.9 {14.46}	
		777	LIGHT GRAY		429.5 {15.15}	
25G	TITANIUM GRAY M	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}	
		777	LIGHT GRAY		967.1 {34.11}	
25H	SILVER CONTRAIL M	101	OPAL		971.4 {34.26}	
		400	DEEP BLACK DARK GREEN		977.8 {34.49}	
		732	TRANSPARENT		986.1 {34.78}	
			FIRST COAT			
		Q279	RED SEMI TRANSPARENT	448.2 {15.81}		
		Q065	BINDER	672.0 {23.70}		
		Q231	BRILLIANT RED	867.8 {30.61}		
		Q725	BRIGHT MAROON	970.9 {34.25}		
		Q160	MIXING BLACK	972.9 {34.32}		
			TOP COAT			
27A	VELOCITY RED MC	Q190	WHITE GREY TRANSPARENT	324.1 {11.43}		
		Q065	BINDER	547.4 {19.31}		
		Q923 H	RED EFFECT	698.7 {24.65}		
		Q941 H	GOLD EFFECT	839.2 {29.60}		
		Q232	RED TRANSPARENT	904.1 {31.89}		
		Q726	VIOLET RED	958.1 {33.80}		
		Q271	RED MAROON	971.1 {34.25}		

		İ	KIND OF PAINT	POLYXI	HANE/POLYURE	THANE
COLOR	COLOR NAME		LABEL	AUTOBASE PLUS	AUTOBASE	AUTOCRYL
			INGREDIENTS	CC/CC g{oz}	CC/CC g{oz}	CC/CC <u>g{</u> oz}
		Q065	BINDER	224.9 {7.93}		
1		Q911 M	WHITE PEARL (Slight coarseness)	432.7 {15.26}		
		Q911 H	SILVER EFFECT	606.6 {21.40}		
27C	NORDIC GREEN MC	Q140	DEEP BLACK	763.6 {26.93}		
		Q190	WHITE GREY TRANSPARENT	863.6 {30.46}		
		Q652	BLUE GREEN	944.4 {33.31}		
		Q678	BLUE VIORET	975.2 {34.40}		
		Q348	ORANGE YELLOW	977.5 {34.48}		
		Q811J	METALLIC SPARKLING (Medium coarseness)	311.2 {10.98}		
		Q239	RED OXIDE	321.8 {11.35}		
		Q726	VIOLET RED TRANSPARENT	352.2 {12.42}		
29Y	TITANIUM GRAY II M	Q673	BRIGHT BLUE	390.9 {13.79}		
291		Q140	DEEP BLACK	466.8 {16.47}		
		Q190	WHITE GRAY TRANSPARENT	569.3 {20.08}		
9		Q811 M	METALLIC SPARKLING (Slight coarseness)	759.1 {26.78}		
		Q065	BINDER	985.9 {34.78}		

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			KIND OF PAINT		THANE/POLYURE	THANE
COLOR	COLOR NAME		LABEL	CRONAR	CRONAR	-
CODE			INGREDIENTS	CENTARI 6000 g{oz}	CENTARI 600 g{oz}	CENTARI 500 g{oz}
		AM 64	MAGENTA	240.4 {8.48}	184.1 {6.49}	
		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}	
	CLE	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}	
		AM7	BLACK L.S.	677.4 {23.89}	635.0 {22.40}	
A4D	ARCTIC WHITE CLE	AM82	YELLOW OXIDE L.S.	679.3 {23.96}	636.8 {22.46}	
	OLL	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}	
1014/		AM14	COARSE ALUMINIUM		255.1 {9.00}	
16W	BLACK MC	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}		
		AM5	JET BLACK	235.6 {8.31}		
	GRACE GREEN	4530S	FLOP CONTROL AGENT	287.4 {10.14}		
18J	MC	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}	
	SPARKLING	AM2	WHITE L.S.	219.3 {7.74}	189.4 {6.68}	
24E	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}	
		4530S	FLOP CONTROL AGENT	466.0 {16.44}	379.4 {13.38}	
25B	BLUE PACIFIC	AM29	LIGHT BLUE	484.7 {17.10}	394.6 {13.92}	
	MC	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}	
			M.S. BINDER	952.3 {33.59}	(	
	CANARY		s able to provide the specialize		OW MC color as a	ready-to-use

			KIND OF PAINT	POLYXI	THANE/POLYURE	THANE
COLOR	COLOR NAME		LABEL	CRONAR	CRONAR	-
CODE			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}		
25F	GARNET RED MC	(The mix	able to provide the specializ ng formula is under developn	nent).		y-to-use product.
		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}	
25G		AM20	VIOLET	171.5 {6.05}	159.9 {5.64}	
	TITANIUM GRAY	AM84	RED OXIDE L.S.	184.9 {6.52}	172.5 {6.08}	
	TITANIUM GRAY M	AM84 AM2	RED OXIDE L.S. WHITE L.S.		172.5 {6.08} 183.9 {6.49}	
		AM84 AM2 AB 150	RED OXIDE L.S. WHITE L.S. B/C BALANCER	184.9 {6.52}	172.5{6.08}183.9{6.49}597.3{21.07}	
		AM84 AM2 AB 150 AB 160	RED OXIDE L.S. WHITE L.S. B/C BALANCER BINDER	184.9 {6.52} 197.2 {6.96}	172.5 {6.08} 183.9 {6.49}	
		AM84 AM2 AB 150 AB 160 XB 155	RED OXIDE L.S. WHITE L.S. B/C BALANCER BINDER M.S. BINDER	184.9 {6.52} 197.2 {6.96} 424.6 {14.98}	172.5{6.08}183.9{6.49}597.3{21.07}	
		AM84 AM2 AB 150 AB 160	RED OXIDE L.S. WHITE L.S. B/C BALANCER BINDER M.S. BINDER M.S. BINDER	184.9 {6.52} 197.2 {6.96} 424.6 {14.98} 943.5 {33.28}	172.5 {6.08} 183.9 {6.49} 597.3 {21.07} 933.8 {32.94}	
		AM84 AM2 AB 150 AB 160 XB 155 XB 165 AM95	RED OXIDE L.S. WHITE L.S. B/C BALANCER BINDER M.S. BINDER M.S. BINDER BR COARSE ALUMINIUM	184.9 {6.52} 197.2 {6.96} 424.6 {14.98} 943.5 {33.28} 155.2 {5.47}	172.5 {6.08} 183.9 {6.49} 597.3 {21.07} 933.8 {32.94} 131.8 {4.65}	
		AM84 AM2 AB 150 AB 160 XB 155 XB 165	RED OXIDE L.S. WHITE L.S. B/C BALANCER BINDER M.S. BINDER M.S. BINDER	184.9 {6.52} 197.2 {6.96} 424.6 {14.98} 943.5 {33.28}	172.5 {6.08} 183.9 {6.49} 597.3 {21.07} 933.8 {32.94}	
		AM84 AM2 AB 150 AB 160 XB 155 XB 165 AM95	RED OXIDE L.S. WHITE L.S. B/C BALANCER BINDER M.S. BINDER M.S. BINDER BR COARSE ALUMINIUM	184.9 {6.52} 197.2 {6.96} 424.6 {14.98} 943.5 {33.28} 155.2 {5.47}	172.5 {6.08} 183.9 {6.49} 597.3 {21.07} 933.8 {32.94} 131.8 {4.65} 146.5 {5.17} 160.6 {5.66}	
		AM84 AM2 AB 150 AB 160 XB 155 XB 165 AM95 4530S AM31 AM70	RED OXIDE L.S. WHITE L.S. B/C BALANCER BINDER M.S. BINDER M.S. BINDER BR COARSE ALUMINIUM FLOP CONTROL AGENT FIRST GREEN L.S. FAST BLUE L.S.	184.9       {6.52}         197.2       {6.96}         424.6       {14.98}         943.5       {33.28}         155.2       {5.47}         172.4       {6.08}         189.0       {6.67}         203.3       {7.17}	172.5 {6.08} 183.9 {6.49} 597.3 {21.07} 933.8 {32.94} 131.8 {4.65} 146.5 {5.17} 160.6 {5.66} 172.7 {6.09}	
25H	M	AM84 AM2 AB 150 AB 160 XB 155 XB 165 AM95 4530S AM31 AM70 AM2	RED OXIDE L.S. WHITE L.S. B/C BALANCER BINDER M.S. BINDER M.S. BINDER BR COARSE ALUMINIUM FLOP CONTROL AGENT FIRST GREEN L.S. FAST BLUE L.S. WHITE L.S.	184.9       {6.52}         197.2       {6.96}         424.6       {14.98}         943.5       {33.28}         155.2       {5.47}         172.4       {6.08}         189.0       {6.67}	172.5 {6.08} 183.9 {6.49} 597.3 {21.07} 933.8 {32.94} 131.8 {4.65} 146.5 {5.17} 160.6 {5.66} 172.7 {6.09} 179.8 {6.34}	
25H	M	AM84 AM2 AB 150 AB 160 XB 155 XB 165 AM95 4530S AM31 AM70	RED OXIDE L.S. WHITE L.S. B/C BALANCER BINDER M.S. BINDER M.S. BINDER BR COARSE ALUMINIUM FLOP CONTROL AGENT FIRST GREEN L.S. FAST BLUE L.S.	184.9       {6.52}         197.2       {6.96}         424.6       {14.98}         943.5       {33.28}         155.2       {5.47}         172.4       {6.08}         189.0       {6.67}         203.3       {7.17}	172.5 {6.08} 183.9 {6.49} 597.3 {21.07} 933.8 {32.94} 131.8 {4.65} 146.5 {5.17} 160.6 {5.66} 172.7 {6.09} 179.8 {6.34} 182.9 {6.45}	
25H	M	AM84 AM2 AB 150 AB 160 XB 155 XB 165 AM95 4530S AM31 AM70 AM2	RED OXIDE L.S. WHITE L.S. B/C BALANCER BINDER M.S. BINDER M.S. BINDER BR COARSE ALUMINIUM FLOP CONTROL AGENT FIRST GREEN L.S. FAST BLUE L.S. WHITE L.S.	184.9       {6.52}         197.2       {6.96}         424.6       {14.98}         943.5       {33.28}         155.2       {5.47}         172.4       {6.08}         189.0       {6.67}         203.3       {7.17}         211.7       {7.47}	172.5       {6.08}         183.9       {6.49}         597.3       {21.07}         933.8       {32.94}         131.8       {4.65}         146.5       {5.17}         160.6       {5.66}         172.7       {6.09}         179.8       {6.34}         182.9       {6.45}         571.2       {20.15}	
25H	M	AM84 AM2 AB 150 AB 160 XB 155 XB 165 AM95 4530S AM31 AM70 AM2 AM5	RED OXIDE L.S. WHITE L.S. B/C BALANCER BINDER M.S. BINDER M.S. BINDER BR COARSE ALUMINIUM FLOP CONTROL AGENT FIRST GREEN L.S. FAST BLUE L.S. WHITE L.S. JET BLACK	184.9       {6.52}         197.2       {6.96}         424.6       {14.98}         943.5       {33.28}         155.2       {5.47}         172.4       {6.08}         189.0       {6.67}         203.3       {7.17}         211.7       {7.47}	172.5 {6.08} 183.9 {6.49} 597.3 {21.07} 933.8 {32.94} 131.8 {4.65} 146.5 {5.17} 160.6 {5.66} 172.7 {6.09} 179.8 {6.34} 182.9 {6.45}	
25H	M	AM84 AM2 AB 150 AB 160 XB 155 XB 165 AM95 4530S AM31 AM70 AM2 AM5 AB 150	RED OXIDE L.S. WHITE L.S. B/C BALANCER BINDER M.S. BINDER M.S. BINDER BR COARSE ALUMINIUM FLOP CONTROL AGENT FIRST GREEN L.S. FAST BLUE L.S. WHITE L.S. JET BLACK B/C BALANCER	184.9       {6.52}         197.2       {6.96}         424.6       {14.98}         943.5       {33.28}         155.2       {5.47}         172.4       {6.08}         189.0       {6.67}         203.3       {7.17}         211.7       {7.47}	172.5       {6.08}         183.9       {6.49}         597.3       {21.07}         933.8       {32.94}         131.8       {4.65}         146.5       {5.17}         160.6       {5.66}         172.7       {6.09}         179.8       {6.34}         182.9       {6.45}         571.2       {20.15}	

			KIND OF PAINT	POLYXI	THANE/POLYURE	THANE
COLOR CODE	COLOR NAME		LABEL	AUTOBASE PLUS	AUTOBASE	AUTOCRYL
			INGREDIENTS	CC/CC 	CC/CC g{oz}	CC/CC g{oz}
		AM50	BRILLIANT RED	170.4 {6.01}		
		AM64	MAGENTA	335.7 {11.84}		
	VELOCITY RED MC	AM53	RED ORANGE	419.2 {14.79}		
	UNDERCOAT	AM66	RED VIOLET	457.6 {16.14}		
		AM7	BLACK L.S.	469.4 {16.56}		
			M.S.BINDER	956.3 {33.73}		
		AM62	TRANSPARENT RED	145.3 {5.13}		
27A		AM86	OPEC RED	188.2 {6.64}		
		AM75 2	RADIANT RED EFX	210.1 {7.41}		
	VELOCITY RED MC	AM7	BLACK L.S.	227.8 {8.04}		
	BASECOAT	AM50	BRILLIANT RED	240.4 {8.48}		
		AM76 5	SUNBEAM GOLD EFX	249.7 {8.81}		
		XB155	M.S.BINDER	514.4 {18.14}		
		XB165	M.S. BINDER	941.9 {33.22}		
		AM5	JET BLACK	74.0 {2.61}	62.1 {2.19}	
		AM27	BLUE	128.8 {4.54}	108.1 {3.81}	
		4530S	FLOP CONTROL AGENT	182.1 {6.42}	152.8 {5.39}	
		AM73 5	CRYSTAL WHITE EFX	232.6 {8.20}	195.2 {6.89}	
27C	NORDIC GREEN MC	AM76	GOLD PEARL	235.1 {8.29}	197.3 {6.96}	
		AB 150	B/C BALANCER		633.1 {22.33}	
		AB 160	BINDER		933.5 {32.93}	
		XB155	M.S. BINDER	501.7 {17.70}		
		XB165	M.S. BINDER	944.2 {33.31}		
		AM95	BRIGHT COARSE ALUMINIUM	61.2 {2.16}	54.9 {1.94}	
		4530S	FLOP CONTROR AGENT	116.3 {4.10}	104.3 {3.68}	
		AM70	FAST BLUE L.S.		138.4 {4.88}	
		AM5	JET BLACK	148.4 {5.23}	167.2 {5.90}	
		AM64	MAGENTA	167.7 {5.92}	184.5 {6.51}	
29Y	TITANIUM GRAY II M	AM84	RED OXIDE L.S.	184.0 {6.49}	199.1 {7.02}	
		AM27	BLUE	198.3 {6.99}	211.9 {7.47}	
		AM28	FAST BLUE H.S.	202.2 {7.13}		
			BINDER(LMC)		614.9 {21.69}	
			BINDER(HMC)		934.7 {32.97}	
			M.S.BINDER	432.3 {15.25}		
		XB165	M.S.BINDER	943.1 {33.27}		

• Please confirm the newest formula at the following URL. http://www.standox.com ٦

		KIND OF PAINT	POLYUR	EIHANE
COLOR	COLOR NAME	LABEL	STAN	IDOX
CODE		MIXING No.	CC/ g{c	
		861		{18.55}
		566		{25.22}
A3E	CLASSIC RED CLE	576		{31.74}
		564		{33.14}
		870	1,120.9	
A4D	ARCTIC WHITE CLE	564	1,140.3	
AHD		574	1,141.9	
		571		{25.27}
		803		{27.85}
		008		{30.20}
16W	BLACK MC	811		{31.64}
1044	DEADITINO	859		{32.39}
		823		{32.59}
		570		{32.65}
		570	262.6	
		573		{24.35}
		823		{26.96}
18J	GRACE GREEN MC	824		{29.80}
100		008		{30.63}
		588		{32.62}
		802		{33.08}
		590		{10.66}
		811		{29.50}
		008		{30.72}
24E	SPARKLING SILVER M	581		{32.61}
		582		{33.08}
		571		{33.22}
		859		{23.75}
		853		{28.50}
25B	BLUE PACIFIC MC	825		{31.95}
250		812		{32.54}
		563		{33.02}
25C	CANARY YELLOW MC	Please contact the STANDOX office fo		[00.02]
200		599		{26.40}
		801		{30.80}
	SNOWFLAKE WHITE	802		{31.68}
	PEARL MC	008		{33.15}
25D		570		{33.29}
ŀ		570	1,032.5	. ,
	GROUND	564	1,052.5	
		581	1,053.0	
╼╼╼┝		853	271.8	
		825		{9.59} {17.03}
		571		{24.17}
25E	STRATO BLUE MC	821		
		859		{28.04} {30.78}
		569		
		202	945.2	{33.34}

	COLOR NAME	KIND OF PAINT	POLYURETHANE
COLOR		LABEL	STANDOX
CODE		MIXING No.	CC/CC g{oz}
		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}
2011		589	932.3 {32.89}
		571	934.4 {32.96}
27A	VELOCITY RED MC	Please contact the STANDOX office for	or the formula.
	NORDIC GREEN MC	826	343.4 {12.11}
I		854	757.4 {26.72}
27C		859	904.3 {31.90}
•		823	944.4 {33.31}
		008	955.8 {33.71}
		811	382.9 {13.51}
<b>İ</b>		812	608.2 {21.45}
P		571	735.4 {25.94}
29Y	TITANIUM GRAY II M	581	794.1 {28.01}
201		008	843.9 {29.77}
		562	882.5 {31.13}
		855	912.0 {32.17}
		561	939.7 {33.15}

#### SPIES HACKER

• Please confirm the newest formula at the following URL. http://www.spieshecker.com ٦ I

OLOR		KIND OF PAINT LABEL	POLYURETHANE
ODE	COLOR NAME		PERMACRON
		INGREDIENTS	g{oz}
		MB 544	528.2 {18.63}
A3E CL	CLASSIC RED CLE	MB 536	717.7 {25.32}
		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}
0.45		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}
25C	CANARY YELLOW MC	Please contact the SPIES HECKER office	
		MB 299	747.0 {26.35}
		MB 233	871.5 {30.74}
	SNOWFLAKE WHITE PEARL	MB 331	913.0 {32.20}
	MC	MB 733	937.9 {33.08}
25D		MB 532	942.0 {33.23}
		MB 501	1,036.7 {36.57}
	GROUND	MB 501	1,057.8 {37.31}
	GROUND		
	<del> </del>	MB 532	1,058.9 {37.35}
		MB 546	272.3 {9.60}
		MB 563	483.7 {17.06}
25E	STRATO BLUE MC	MB 502	686.7 {24.22}
		MB 568	796.6 {28.10}
		MB 554	874.3 {30.84}
		MB 520	947.1 {33.41}

		KIND OF PAINT	POLYURETHANE
COLOR CODE	COLOR NAME	LABEL	PERMACRON
CODE		INGREDIENTS	g{oz}
		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}
2311		MB 538	930.4 {32.82}
		MB 502	932.5 {32.89}
27A	VELOCITY RED MC	Please contact the SPIES HECKER office	e for the formula.
		MB 574	412.4 {14.55}
		MB 596	754.4 {26.61}
27C	NORDIC GREEN MC	MB 554	900.7 {31.77}
		MB 561	940.6 {33.18}
		MB 799	952.0 {33.58}
		MB 558	384.5 {13.56}
		MB 557	610.8 {21.54}
		MB 532	669.7 {23.62}
29Y	TITANIUM GRAY II M	MB 502	797.5 {28.13}
231		MB 799	847.5 {29.89}
		MB 555	886.3 {31.26}
		MB 556	916.0 {32.31}
		MB 543	943.9 {33.29}

Nexa Autocolor
 Please confirm the newest formula at the following URL. http://www.iciautocolor.com

		KIND OF PAINT	T POLYURETHANE		
COLOR	COLOR NAME	LABEL	AUTOCOLOR		
CODE		INGREDIENTS	1L g{oz}	5L g{oz}	
		P425-941	461.9 {16.29}	2,309.5 {81.46}	
	Ē	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}	
	Ē	P425-921	678.6 {23.94}	3,393.0 {119.68}	
	Ē	P192-474	1,017.4 {35.89}	5,087.0 {179.44}	
		P425-900	772.0 {27.23}	3,860.0 {136.16}	
	Ē	P420-918RT	776.8 {27.40}	3,884.0 {137.00}	
A4D	ARCTIC WHITE 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	BLACK 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 GREEN MC	P420-902RT	356.5 {12.57}	1,782.5 {62.87}	
		P420-0982	398.5 {14.06}	1,992.5 {70.28}	
	Ē	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}	
24E	SPAKING SILVER M	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}	
050		P420-938	448.1 {15.81}	2,240.5 {79.03}	
25B	BLUE PACIFIC MC	P425-948	487.2 {17.19}	2,436.0 {85.93}	
	Ē	P425-957	572.3 {20.19}	2,861.5 {100.93}	
		P426-PP63	729.8 {25.74}	3,649.0 {128.71}	
	F	P192-500	978.2 {34.50}	4,891.0 {172.52}	
25C	CANARY YELLOW MC	Please contact the Nexa Autocold	or office for the formula.		
25D	SNOWELAKE WHITE	Please contact the Nexa Autocold			

			KIND OF PAINT	POLYUR	RETHANE		
COLOR	COLOR NAME				LABEL	AUTO	COLOR
CODE			INGREDIENTS	1L g{oz}	5L g{oz}		
			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}		
25F	GARNET	RED MC	Please contact the Nexa Autocolo	r office for the formula.			
			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	/ 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}		
			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}		
			P420-938	634.2 {22.37}	3,171.0 {111.85}		
			P192-528	975.6 {34.41}	4,878.0 {172.06}		
<b>r</b>			P565-888	1,446.4 {51.02}	4,070.0 {172.00}		
		GROUND COAT	P425-948	1,555.3 {54.86}			
		00/11	P425-946	285.9 {10.08}			
27A	VELOCITY		P429-976	441.8 {15.58}			
2/A	RED MC	BASE COAT	P426-PP09	559.9 {19.75}			
		BASE COAT					
<u> </u>			P426-PP08 P192-500	773.4 {27.28} 992.8 {35.02}			
			P425-948	426.5 {15.04}			
		GROUND	P425-940	711.2 {25.09}			
		COAT	P192-475	1,066.2 {37.61}			
			P 192-475 P426-PP05	297.3 {10.49}			
	NODDIO		P425-922	362.6 {12.79}			
27C	NORDIC GREEN MC		P425-922 P426-PP07	378.2 {13.34}			
		BASECOAT					
1		BASE COAT	P420-920 P425-957	392.8 {13.86}			
				428.8 {15.13}			
			P425-950 P192-500	652.0 {23.00} 974.7 {34.38}			
I	<u> </u>			. ,			
			P425-992	324.2 {11.44}			
			P425-948	445.3 {15.71}			
201/			P420-938	473.6 {16.71}			
29Y	TTANIUM	GRAY II M	P429-976	490.2 {17.29}			
			P420-930	563.5 {19.88}			
			P425-987	765.6 {27.01}			
L			P192-5600	976.5 {34.44}	L <u></u>		

PPG INDUSTRIES
Please confirm the newest formula at the following URL. http://www.ppg.com/gridppg/

		KIND OF PAINT				
COLOR	COLOR NAME	LABEL	DELTRON			
CODE		INGREDIENTS	1L g{oz}	NOTE		
		752	670.0 {23.63}			
A3E	CLASSIC RED CLE	746	875.0 {30.86}			
AJE	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}			
A4D		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	DEACK NIC	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}			
101	GRACE GREEM MC	740	799.0 {28.18}			
18J		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}			
25B	BLUE PACIFIC 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}			
25C	CANARY YELLOW MC	Please contact the PPG office for the	e formula.			
25D	SNOWFLAKE WHITE PEARL MC	Please contact the PPG office for the	e formula.			
		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}			
25F	GARNET RED MC	Please contact the PPG office for the	e formula.			
		952	682.0 {24.06}			
		756	911.0 {32.13}			
050		741	928.6 {32.75}			
25G	TITANIUM GRAY M	755	939.3 {33.13}			
		955	950.0 {33.51}			
		799	958.0 {33.79}			

		KIND OF PAINT	POLYURETHANE		
COLOR	COLOR NAME	LABEL	DELTRON		
CODE		INGREDIENTS	1L g{oz}	NOTE	
		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}		
		752	598.1 {21.10}		
	VELOCITY RED MC COLOR BASE	799	888.1 {31.33}		
27A		792	951.5 {33.56}		
27A		748	34.9 {1.23}		
	VELOCITY RED MC	PRLX1	41.2 {1.45}		
		895	928.3 {32.74}		
		740	441.9 {15.59}		
		754	818.6 {28.87}		
27C	NORDIC GREEN MC	741	905.5 {31.94}		
		PRLX2	967.1 {34.11}		
		757	992.5 {35.01}		
		768	540.0 {19.05}		
		952	785.8 {27.72}		
29Y	TITANIUM GRAY II M	740	873.1 {30.80}		
291		774	905.4 {31.94}		
		776	928.0 {32.73}		
		742	944.2 {33.31}		

DIAMONT
 Please confirm the newest formula at the following URL. http://www.rmpaint.net/

			KIND OF PAINT	POLYUR	ETHANE
COLOR	COLOR NAME		LABEL	DIAMONT BASE	SOLO DE
CODE			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}	
AGE	CLASSIC NED CLL	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		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	COLOR NAME		LABEL	DIAMONT BASE	SOLO DE
CODE			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}	
050		COLOR B	ASE		
25C	CANARY YELLOW MC	BC 020	REDUCER(THINNER)	88.0 {3.10}	
		BC 1190	SHINY WHITE PEARL	446.4 {15.75}	
		BC 1265	GOLD PEARL 2	605.8 {21.37}	
		BC 605	INORGANIC YELLOW 2	754.3 {26.61}	
		BC 621	ORGANIC YELLOW 2	793.9 {28.00}	
		BC 615	ORGANIC YELLOW 3	809.4 {28.55}	
		BC 190	WHITE	823.3 {29.04}	
		BC 101	FLOP CONTROL	965.0 {34.04}	
		GROUND	COAT		
		BC 020	REDUCER(THINNER)	87.1 {3.07}	
		BC 190	WHITE	974.6 {34.38}	
		BC 209	BLACK TINT	1,038.2 {36.62}	
		BC 609	YELLOW TINT	1,072.8 {37.84}	
		BC 809	RED TINT	1,093.0 {38.55}	
25D	SNOWFLAKE WHITE PEARL MC	BC 409	BLUE TINT	1,096.3 {38.67}	
		PEARL BA	ASE		
		BC 020	REDUCER(THINNER)	88.1 {3.11}	
		BC 100	MIXING CLEAR	752.3 {26.54}	
		BC 1190	SHINY WHITE PEARL	842.7 {29.72}	
		BC 1265	GOLD PEARL 2	859.0 {30.30}	
		BC 101	FLOP CONTROL	908.1 {32.03}	
		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}	
		BC 118	BLUE PEARL	794.2 {28.01}	
		BC 300	VIOLET	860.3 {30.35}	
		CB 34M	CRYSTAL VIOLET	923.2 {32.56}	
<b></b>		BC 111	WHITE PEARL	931.3 {32.85}	
		BC 020	REDUCER(THINNER)	88.0 {3.10}	
		BC 820	MAROON 1	397.1 {14.01}	
		BC 840	MAGENTA	655.8 {23.13}	
25F	GARNET RED MC	BC 1815	SHINY RED PEARL	758.7 {26.76}	
		BC 201	CARBON BLACK3	777.0 {27.41}	
		BC 250	LAMP BLACK	787.0 {27.76}	
		BC 1265	GOLD PEARL 2	792.5 {27.95}	
		BC 101	FLOP CONTROL	926.3 {32.67}	

			KIND OF PAINT	POLYUR	ETHANE
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		BC 115	RUSSET PEARL	822.8 {29.02}	
25G	TITANIUM GRAY M	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}	
		BC 020	REDUCER(THINNER)	88.0 {3.10}	
	SILVER CONTRAIL M	BC 171	MEDIUM ROUND ALUMINUM	787.3 {27.77}	
0.511		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}	
27A	VELOCITY RED MC	Please co	ntact the DIAMONT office fo	r the formula.	
		BC 020	REDUCER(THINNER)	87.3 {3.08}	
		BC 406	PHTALO PEARL 3	223.4 {7.88}	
27C	NORDIC GREEN MC	BC 1190	SHINY WHITE PEARL	513.0 {18.10}	
		BC 201	CARBON BLACK3	921.8 {32.51}	
		BC 101	FLOP CONTROL	938.7 {33.11}	
		BC 020	REDUCER(THINNER)	88.0 {3.10}	
		BC 171	MEDIUM ROUND ALUMINIUM	512.5 {18.08}	
		BC 201	CARBON BLACK3	628.5 {22.17}	
001/		BC 250	LAMP BLACK	737.8 {26.02}	
29Y	TITANIUM GRAY II M	BC 470	INDO BLUE	805.9 {28.43}	
		BC 175	MEDIURM SHINY ALUMINIUM	847.9 {29.91}	
		BC 881	RED VIOLET	869.7 {30.68}	
		BC 101	FLOP CONTROL	928.6 {32.75}	

GLASURIT
 Please confirm the newest formula at the following URL. http://www.glasurit.com/\_\_\_\_\_

		KIND OF PAINT	POLY	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}	
		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}	
a ( E		M 99/20	787.5 {27.78}	
24E	SPARKLING SILVER M	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}	
0.55		M 99/19	383.8 {13.54}	
25B	BLUE PACIFIC MC	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	POLY	JRETHANE
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}	
050		COLOR BASE		
25C	CANARY YELLOW MC	352-91	173.8 {6.13}	
		M 919	492.6 {17.38}	
		M 179	634.2 {22.37}	
		M 105	766.2 {27.03}	
		A 143	801.7 {28.28}	
		M 146	815.0 {28.75}	
		M 25	827.3 {29.18}	
		M 1	953.2 {33.62}	
		GROUND COAT		
		352-91	173.8 {6.13}	
		M 25	962.0 {33.93}	
		A 927	1,018.4 {35.92}	
		A 137	1,049.0 {37.00}	
	SNOWFLAKE WHITE	A 307	1,067.0 {37.64}	
25D	PEARL MC	A 553	1,069.9 {37.74}	
		PEARL BASE		
		352-91	173.8 {6.13}	
		M 919	254.1 {8.96}	
		M 179	268.6 {9.47}	
		M 0	859.2 {30.31}	
		<u> </u>	902.7 {31.84}	
		352-91	173.8 {6.13}	
		M 505	235.0 {8.29}	
		E 440	290.9 {10.26}	
		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}	
	<u> </u>	A 427	923.5 {32.57}	<u> </u>
		352-91	173.8 {6.13}	
		M 179	178.7 {6.30}	
		A 347	453.5 {16.00}	
25F	GARNET RED MC	A 353	683.5 {24.11}	
		M 319	774.9 {27.33}	
		A 929	791.1 {27.90}	
		A 974	800.0 {28.22}	
		<u> </u>	918.9 {32.41}	

COLOR CODE	COLOR NAME	KIND OF PAINT	POLYURETHANE	
		LABEL	GLASSOMAX BASE COAT	GLASSODUR PUR TOP COAT 21-
		INGREDIENTS	g{oz}	g{oz}
25G	TITANIUM GRAY M	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}	
		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}	
25H	SILVER CONTTAIL M	352-91	173.8 {6.13}	
		M 99/19	795.4 {28.06}	
		M 99/12	855.3 {30.17}	
		A 926	881.3 {31.09}	
		A 696	889.8 {31.39}	
		A 555	898.0 {31.68}	
		M 1	920.8 {32.48}	
27A	VELOCITY RED MC	Please contact the GLASURIT office for the formula.		
27C	NORDIC GREEN MC	352-91	174.4 {6.15}	
		M 919	432.5 {15.26}	
		A 929	796.9 {28.11}	
		A 555	918.2 {32.39}	
		M 1	933.2 {32.92}	
29Y	TITANIUM GRAY II M	352-91	173.8 {6.13}	
		M 99/19	551.0 {19.44}	
		M 99/22	588.3 {20.75}	
		A 929	691.3 {24.38}	
		A 974	788.4 {27.81}	
		A 531	848.9 {29.94}	
		A 430	868.3 {30.63}	
		M 1	920.6 {32.47}	