SECTION BRM В **BODY REPAIR** С

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< VEHICLE INFORMATION >

VEHICLE INFORMATION BODY EXTERIOR PAINT COLOR

Body Exterior Paint Color

INFOID:000000010121675

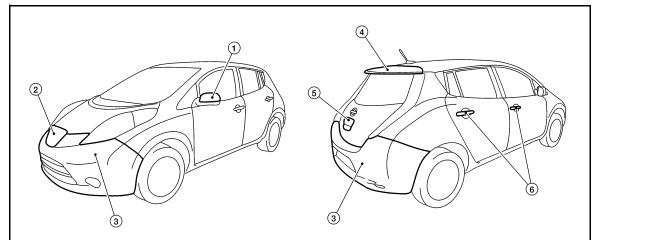
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		Color code	KH3	KBC	K23	NAH	QAK	RBJ	QAB	KAD	
	Component	Description	Black	Gray	Silver	Red	White	Blue	White	Gray	- H
Component		Paint type	S	2S	М	PM	S	3PM	3P	М	-
		Hard clear coat	t	t	t	t	t	t	t	t	- I
1.	Outside mirror cover	Body color	KH3	KBC	K23	NAH	QAK	RBJ	QAB	KAD	
2.	Charge port lid	Body color	KH3	KBC	K23	NAH	QAK	RBJ	QAB	KAD	-
3.	Bumper fascia	Body color	KH3	KBC	K23	NAH	QAK	RBJ	QAB	KAD	J
4.	Rear spoiler	Body color	KH3	KBC	K23	NAH	QAK	RBJ	QAB	KAD	-
5.	Back door handle	Body color	KH3	KBC	K23	NAH	QAK	RBJ	QAB	KAD	BRM
6.	Door outside handle	Chromium plate	Cr2P	Cr2P	Cr2P	Cr2P	Cr2P	Cr2P	Cr2P	Cr2P	BINN

M = Metallic, S = Solid, 2S = Solid and Clear, 2P = 2-Coat Pearl, 3P = 3-Coat Pearl, PM = Pearl Metallic, t = Primerless Diamond Clear coat, Cr2P = Chromium plate.

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< PRECAUTION >

PRECAUTION

PRECAUTIONS

Precaution for Technicians Using Medical Electric

INFOID:000000010121676

OPERATION PROHIBITION

WARNING:

- Parts with strong magnet is used in this vehicle.
- Technicians using a medical electric device such as pacemaker must never perform operation on the vehicle, as magnetic field can affect the device function by approaching to such parts.

NORMAL CHARGE PRECAUTION

WARNING:

- If a technician uses a medical electric device such as an implantable cardiac pacemaker or an implantable cardioverter defibrillator, the possible effects on the devices must be checked with the device manufacturer before starting the charge operation.
- As radiated electromagnetic wave generated by PDM (Power Delivery Module) at normal charge operation may affect medical electric devices, a technician using a medical electric device such as implantable cardiac pacemaker or an implantable cardioverter defibrillator must not approach motor room [PDM (Power Delivery Module)] at the hood-opened condition during normal charge operation.

PRECAUTION AT TELEMATICS SYSTEM OPERATION

WARNING:

- If a technician uses implantable cardiac pacemaker or implantable cardioverter defibrillator (ICD), avoid the device implanted part from approaching within approximately 220 mm (8.66 in) from interior/exterior antenna.
- The electromagnetic wave of TCU might affect the function of the implantable cardiac pacemaker or the implantable cardioverter defibrillator (ICD), when using the service, etc.
- If a technician uses other medical electric devices than implantable cardiac pacemaker or implantable cardioverter defibrillator (ICD), the electromagnetic wave of TCU might affect the function of the device. The possible effects on the devices must be checked with the device manufacturer before TCU use.

PRECAUTION AT INTELLIGENT KEY SYSTEM OPERATION

WARNING:

- If a technician uses implantable cardiac pacemaker or implantable cardioverter defibrillator (ICD), avoid the device implanted part from approaching within approximately 220 mm (8.66 in) from interior/exterior antenna.
- The electromagnetic wave of Intelligent Key might affect the function of the implantable cardiac pacemaker or the implantable cardioverter defibrillator (ICD), at door operation, at each request switch operation, or at engine starting.
- If a technician uses other medical electric devices than implantable cardiac pacemaker or implantable cardioverter defibrillator (ICD), the electromagnetic wave of Intelligent Key might affect the function of the device. The possible effects on the devices must be checked with the device manufacturer before Intelligent Key use.

Point to Be Checked Before Starting Maintenance Work

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The high voltage system may starts automatically. It is required to check that the timer air conditioner and timer charge (during EVSE connection) are not set before starting maintenance work. NOTE:

If the timer air conditioner or timer charge (during EVSE connection) is set, the high voltage system starts automatically even when the power switch is in OFF state.

Precaution for Removing 12V Battery

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 Check that EVSE is not connected. NOTE:

If EVSE is connected, the air conditioning system may be automatically activated by the timer A/C function.

BRM-4

PRECAUTIONS

< PRECAUTION >

- 2. Turn the power switch OFF \rightarrow ON \rightarrow OFF. Get out of the vehicle. Close all doors (including back door).
- Check that the charge status indicator lamp does not blink and wait for 5 minutes or more. 3. А NOTE: If the battery is removed within 5 minutes after the power switch is turned OFF, plural DTCs may be detected. В 4. Remove 12V battery within 1 hour after turning the power switch OFF \rightarrow ON \rightarrow OFF. NOTE: The 12V battery automatic charge control may start automatically even when the power switch is in OFF state. Once the power switch is turned ON → OFF, the 12V battery automatic charge control does not start for approximately 1 hour. CAUTION: D After all doors (including back door) are closed, if a door (including back door) is opened before battery terminals are disconnected, start over from Step 1. After turning the power switch OFF, if "Remote A/C" is activated by user operation, stop the air Ε conditioner and start over from Step 1.

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the SR and SB section of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SR section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

WARNING:

- When working near the Airbag Diagnosis Sensor Unit or other Airbag System sensors with the Ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the Ignition OFF, disconnect the battery and wait at least three minutes before performing any service.

High Voltage Precautions

DANGER:

Since hybrid vehicles and electric vehicles contain a high voltage battery, there is the risk of electric shock, electric leakage, or similar accidents if the high voltage component and vehicle are handled incorrectly. Be sure to follow the correct work procedures when performing inspection and maintenance.

WARNING:

- Be sure to remove the service plug in order to disconnect the high voltage circuits before performing inspection or maintenance of high voltage system harnesses and parts.
- The removed service plug must always be carried in a pocket of the responsible worker or placed in the tool box during the procedure to prevent the plug from being connected by mistake.

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PRECAUTIONS

< PRECAUTION >

- Be sure to wear insulated protective equipment before beginning work on the high voltage system.
- Never allow workers other than the responsible person to touch the vehicle containing high voltage parts. To keep others from touching the high voltage parts, these parts must be covered with an insulating sheet except when using them.

CAUTION:

Never bring the vehicle into the READY status with the service plug removed unless otherwise instructed in the Service Manual. A malfunction may occur if this is not observed.

HIGH VOLTAGE HARNESS AND EQUIPMENT IDENTIFICATION

All the high voltage harnesses and connectors are orange. The Li-ion battery and other high voltage devices include an orange high voltage label. Never touch these harnesses and high voltage parts.

HANDLING OF HIGH VOLTAGE HARNESS AND TERMINALS

Immediately insulate disconnected high voltage connectors and terminals with insulating tape.

REGULATIONS ON WORKERS WITH MEDICAL ELECTRONICS

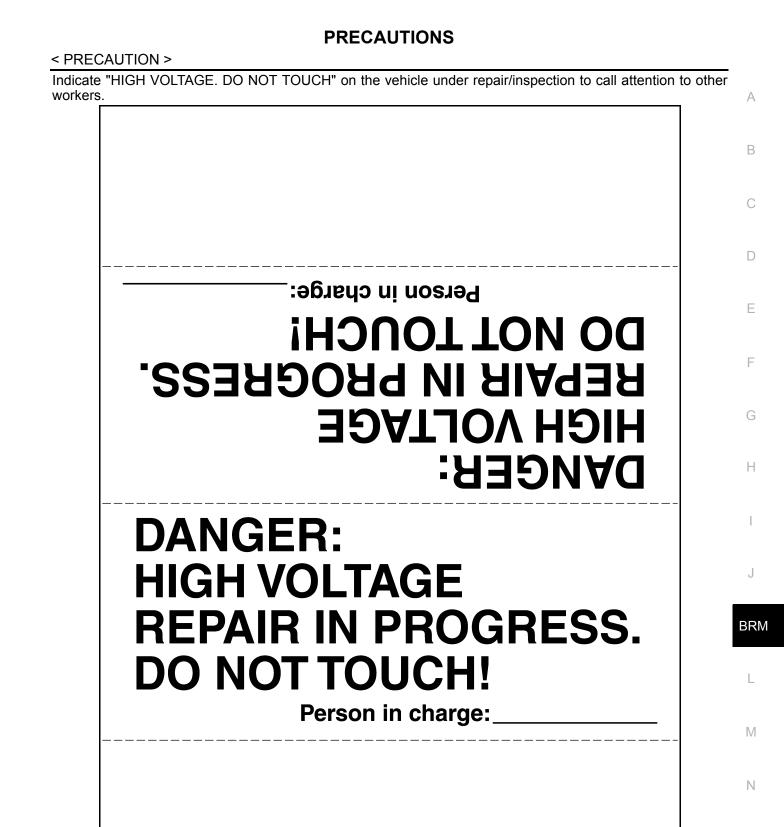
WARNING:

The vehicle contains parts that contain powerful magnets. If a person who is wearing a heart pacemaker or other medical device is close to these parts, the medical device may be affected by the magnets. Such persons must not perform work on the vehicle.

PROHIBITED ITEMS TO CARRY DURING THE WORK

Hybrid vehicles and electric vehicles contain parts with high voltage and intense magnetic force. Never carry metal products and magnetic recording media (e.g. cash card, prepaid card) to repair/inspect high voltage parts. If this is not observed, the metal products may create a risk of short circuit and the magnetic recording media may lose their magnetic recording.

POSTING A SIGN OF "DANGER! HIGH VOLTAGE AREA. KEEP OUT"



Copy this page and put it after folding on the roof of the vehicle in service.

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REPAIRING HIGH STRENGTH STEEL

< PRECAUTION >

REPAIRING HIGH STRENGTH STEEL

High Strength Steel (HSS)

INFOID:000000010121681

High strength steel is used for body panels in order to reduce vehicle weight. Accordingly, precautions in repairing automotive bodies made of high strength steel are described below:

Tensile strength	Major applicable parts
440 - 780 MPa	 Rear side member closing plate Trans control reinforcement (Center front floor component part) Rear side member front extension (Front floor component part) Front floor component part) Front floor component part) 2nd crossmember (Front floor component part) 3rd crossmember (Front floor component part) Side dash (Inner sill reinforcement (Inner sill component part) Side dash Front suspension spring support (Front strut housing component part) Front side member front assembly Front side member assembly Front side member closing plate assembly Rear seat crossmember Rear side member extension reinforcement assembly Rear side member extension Inner side roof rail Upper inner front pillar Front pillar brace Lower center pillar brace Lower center pillar reinforcement (Upper rear panel reinforcement (Upper rear panel component part) Front roof rail (Lower) (Front roof rail (Lower) (Front roof rail (Lower) (Front roof rail (Lower) (Front roof rail (Component part)
980 MPa	 Front side member center extension (Front floor component part) Front side member rear extension (Front floor component part) Inner sill Inner front sill reinforcement (Upper & Lower) (Inner sill component part) Lower dash crossmember (Upper RH & LH) (Lower dash component part) Lower dash crossmember (Lower) Center pillar seat belt anchor (Inner center pillar assembly component part) Inner center pillar assembly (Upper side) Outer side roof rail reinforcement (Lower center pillar brace component part) Front roof rail reinforcement (Front roof rail component part)

Read the following precautions when repairing HSS:

REPAIRING HIGH STRENGTH STEEL

< PRECAUTION >

- 1. Additional points to consider
 - The repair of reinforcements (such as side members) by heating is not recommended, because it may weaken the component. When heating is unavoidable, never heat HSS parts above 550°C (1,022°F).
 Verify heating temperature with a thermometer.

Verify heating temperature with a thermometer.

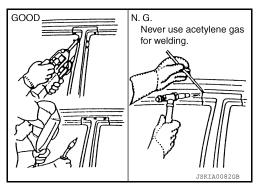
(Crayon-type and other similar type thermometer are appropriate.)

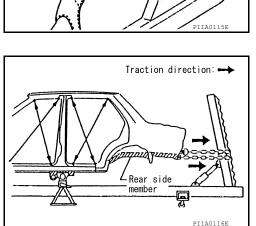
• When straightening body panels, use caution in pulling any HSS panel. Because HSS is very strong, pulling may cause deformation in adjacent sections of the body. In this case, increase the number of measuring points, and carefully pull the HSS panel.

• When cutting HSS panels, avoid gas (torch) cutting if possible. Instead, use a saw to avoid weakening surrounding areas due to heat. If gas (torch) cutting is unavoidable, allow a minimum margin of 50 mm (1.97in).

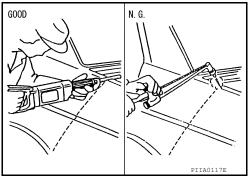
• When welding HSS panels, use spot welding whenever possible in order to minimize weakening surrounding areas due to heat.

If spot welding is impossible, use MIG. welding. Do not use gas (torch) for welding because it is inferior in welding strength.





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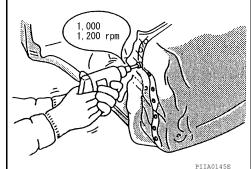
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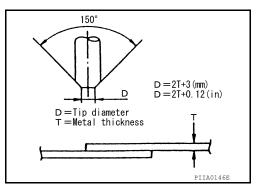
< PRECAUTION >

 Spot welding on HSS panels is harder than that of an ordinary steel panel.

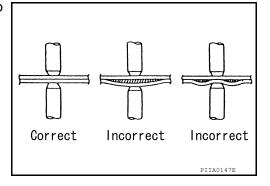
Therefore, when cutting spot welds on a HSS panel, use a low speed high torque drill (1,000 to 1,200 rpm) to increase drill bit durability and facilitate the operation.



- 2. Precautions in spot welding HSS This work should be performed under standard working conditions. Always note the following when spot welding HSS:
 - The electrode tip diameter must be sized properly according to the metal thickness.

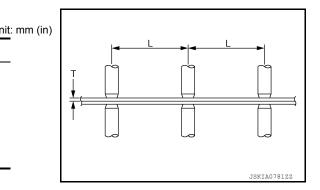


• The panel surfaces must fit flush to each other, leaving no gaps.



• Follow the specifications for the proper welding pitch.

	Unit: r
Thickness (T)	Minimum pitch (L)
0.6 (0.024)	10 (0.39) or more
0.8 (0.031)	12 (0.47) or more
1.0 (0.039)	18 (0.71) or more
1.2 (0.047)	20 (0.79) or more
1.6 (0.063)	27 (1.06) or more
1.8 (0.071)	31 (1.22) or more



Handling of Ultra High Strength Steel Plate Parts

PROHIBITION OF CUT AND CONNECTION

Never cut and Joint the stiffener front side member (front floor inside frame parts) because its material is high strength steel plate (ultra high strength steel plate).

The front floor assembly must be replaced if this part is damaged.

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PAINTING BOOTH

< PRECAUTION >

PAINTING BOOTH

Criteria for Battery Removal When Drying Painting

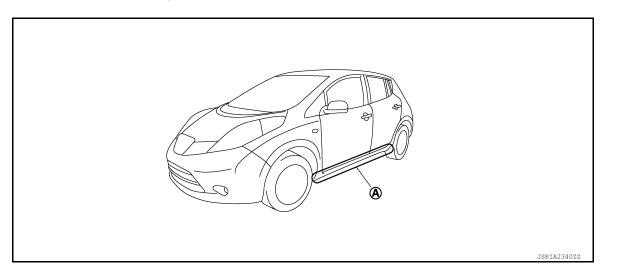
To use painting booth, maintain outer sill (A) temperature at 60°C (140°F) or less to prevent deterioration in lion battery.

NOTE:

• Measure the temperature with a noncontact thermometer.

• If a sill cover (resin) is included, remove the sill cover to measure the temperature.

If outer sill (A) temperature is more than 60°C (140°F), remove li-ion battery beforehand and place in the painting booth.Refer to EVB-188, "Inspection".



A. Outer sill temperature measurement part

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< PRECAUTION >

PROTECTION OF VEHICLE

Protection of Vehicle

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The seats, glass, and carpet must be removed or covered with appropriate material (spatter cover), according to the type of work to be done, to prevent contamination and welding spatter.

In addition, when cutting the vehicle in an area close to high voltage parts or performing a welding operation, the high voltage parts must be covered with a heat-resistant insulating cover (spatter cover).

< PREPARATION > PREPARATION REPAIRING MATERIAL

Foam Repair

During factory body assembly, foam insulators are installed in certain body panels and locations around the vehicle. Use the following procedure(s) to replace any factory-installed foam insulators.

URETHANE FOAM APPLICATIONS

Use commercially available Urethane foam for sealant (foam material) repair of material used on vehicle.

<Urethane foam for foaming agent>



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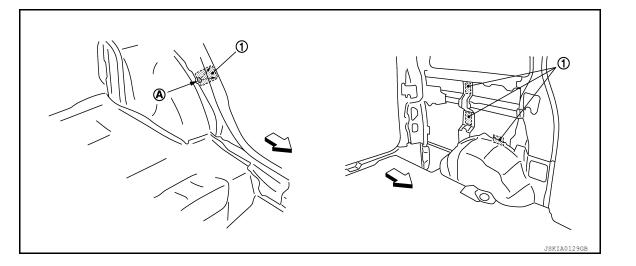
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Read instructions on product for fill procedures.

Example of foaming agent filling operation procedure

- 1. Fill procedures after installation of service part.
- a. Eliminate foam material remaining on vehicle side.
- b. Clean area after eliminating form insulator and foam material.
- c. Install service part.
- d. Insert nozzle into hole near fill area and fill foam material or fill enough to close gap with the service part.



1. Urethane foam

A. Nozzle insert hole

- 2. Fill procedures before installation of service part.
- a. Eliminate foam material remaining on vehicle side.
- b. Clean area after eliminating foam insulator and foam material.
- c. Fill foam material on wheelhouse outer side.
 - 1. Urethane foam
 - A. Fill while avoiding flange area

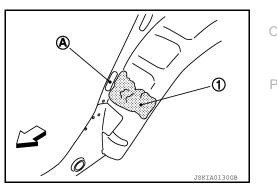
<⊐ Front

NOTE:

Fill enough to close gap with service part while avoiding flange area.

d. Install service part. NOTE:

Refer to label for information on working times.



<□ Front

< PREPARATION >

LOCATION OF PLASTIC PARTS

Precautions for Plastics

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Abbre- viation	Material name Heatresisting C (°F) Resistance to gasoline and solvents		Other cautions	
PE	Polyethylene	60 (140)	Gasoline and most solvents are harmless if applied for a very short time (wipe out quickly).	Flammable
ABS	Acrylonitrile Butadiene Styrene	80 (176)	Avoid gasoline and solvents.	—
EPM/ EPDM	Ethylene Propylene (Diene) co- polymer	80 (176)	Gasoline and most solvents are harmless if applied for a very short time (wipe out quickly).	Flammable
PS	Polystyrene	80 (176)	Avoid solvents.	Flammable
PVC	Poly Vinyl Chloride	80 (176)	Gasoline and most solvents are	
TPO	Thermoplastic Olefine	80 (176)	↑	Flammable
AAS	Acrylonitrile Acrylic Styrene	85 (185)	Avoid gasoline and solvents.	—
PMMA	Poly Methyl Methacrylate	85 (185)	\uparrow	—
EVAC	Ethylene Vinyl Acetate	90 (194)	\uparrow	—
PP	Polypropylene	90 (194)	Gasoline and most solvents are harmless if applied for a very short time (wipe out quickly).	Flammable, avoid bat- tery acid.
PUR	Polyurethane	90 (194)	Avoid gasoline and solvents.	—
UP	Unsaturated Polyester	90 (194)	\uparrow	Flammable
ASA	Acrylonitrile Styrene Acrylate	100 (212)	\uparrow	Flammable
PPE	Poly Phenylene Ether	110 (230)	\uparrow	—
TPU	Thermoplastic Urethane	110 (230)	\uparrow	—
PBT+ PC	Poly Butylene Terephthalate + Polycarbonate	120 (248)	↑	Flammable
PC	Polycarbonate	120 (248)	\uparrow	-
POM	Poly Oxymethylene	120 (248)	\uparrow	Avoid battery acid.
PA	Polyamide	140 (284)	↑	Avoid immersing in wa- ter.
PBT	Poly Butylene Terephthalate	140 (284)	\uparrow	—
PAR	Polyarylate	180 (356)	<u>↑</u>	-
PET	Polyethylene terephthalate	180 (356)	↑	—
PEI	Polyetherimide	200 (392)	\uparrow	_

CAUTION:

• When repairing and painting a portion of the body adjacent to plastic parts, consider their characteristics (influence of heat and solvent) and remove them if necessary or take suitable measures to protect them.

• Plastic parts should be repaired and painted using methods suiting the materials[,] characteristics.

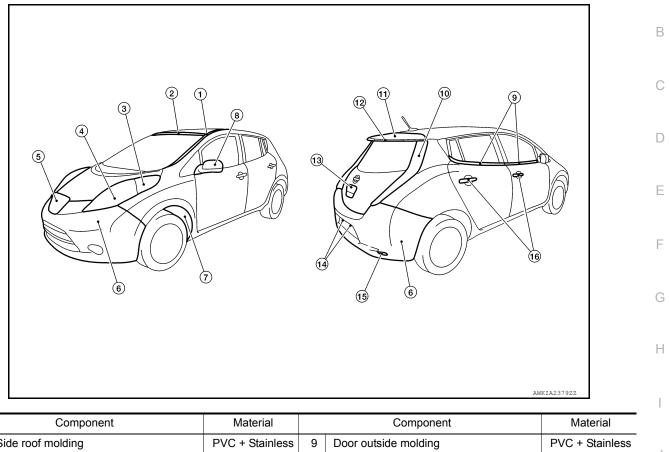
LOCATION OF PLASTIC PARTS

< PREPARATION >

Location of Plastic Parts

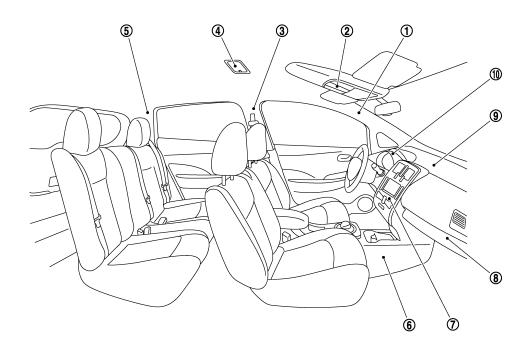
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	Component	Material		Component		Material		
1	Side roof molding		PVC + Stainless	ainless 9 Door outside molding		PVC + Stainless		
I	Lower side molding		ASA	10	Deer combination lamp	Lens	PMMA	J
2	Upper windshield molding	g	TPO	10	Rear combination lamp	Housing	ASA	
3	Front side marker lamp	Lens	PMMA	11	Rear spoiler		ABS	BR
3	From side marker lamp	Housing	PP	10	Llich mount stop lown	Lens	PMMA	
4	Front combination lama	Lens	PC	12	High mount stop lamp	Housing	ABS	
4	Front combination lamp	Housing	PP	13	Back door handle		ABS	L
5	Charge port lid	port lid				Lens	PMMA	
6	Bumper fascia		PP + EPM	14	License plate lamp	Housing	PC	M
7	Front fender protector		PP	45	Defless sefle stor	Lens	PMMA	
		Case	PP + Glass fiber	15	Reflex reflector	Housing	ABS	
8	Door outside mirror	Base	PBT + PET + Glass fiber	16	Door outside handle	Grip body	PC + PET + Glass fiber	Ν
		Cover	ABS	1		Grip cover	PC + ABS	

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Component		Material		Compo	Material		
1	Front pillar garnish		PP	5	Rear pillar finisher		PP
		Lens	PC	6	Contor concelo	Body	PP
	Map lamp	Housing	PP	6	Center console	Console finisher	PC + ABS
2		Center cover	PP	7	Cluster lid C	ister lid C	
	Sungloop holdor	Case	PP	8	Glove box		PP
	Sunglass holder	Holder	PC + ABS	9	Instrument panel		PP
3	Center pillar garnisl	n	PP		Cluster lid A		PP
٨	Boom Jomn	Lens	PC	10	Cluster lid finisher		PP
4	коотпатр	Room lamp Housing		1	Meter cover		PC + ABS

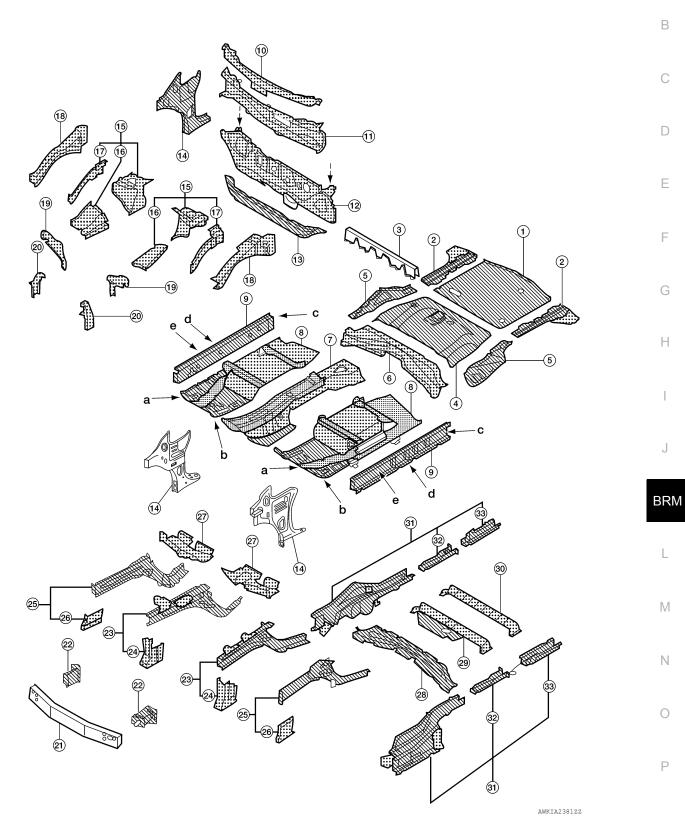
< PREPARATION >

BODY COMPONENT PARTS

Underbody Component Parts



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BODY COMPONENT PARTS

< PREPARATION >

Both sided anti-corrosive precoated steel sections

High strength steel (HSS) sections

Both sided anti-corrosive steel and HSS sections

* Aluminum portion

No.	Parts name	Tensile strength (MPa)	Both sided anti-corrosive precoated steel sections	Aluminum portion		
1.	Rear floor rear	Under 440	×	_		
2.	Rear floor rear side (LH/RH)			590	×	_
3.	Upper seat crossmember assembly			Under 440	_	_
4.	Rear floor front			440	×	_
5.	Rear side member closing plate (LH/RH)			590	×	_
6.	Rear floor front extension			Under 440	×	_
7.	Center front floor			440	×	_
8.	Front floor (LH/RH)	a.	T=1.8mm (0.071 in)	980 ^{caution}	×	
		b.	T=1.8mm (0.071 in)	980 ^{caution}	^	
		C.	T=1.4 mm (0.055 in)	980 ^{caution}		
9.	Inner sill (LH/RH)	d.	T=2.0 mm (0.079 in)	980 ^{caution}	×	—
		e.	T=1.6 mm (0.063 in)	980 ^{caution}		
10.	Cowl top			Under 440	×	—
11.	Upper dash		1	Under 440	×	
12.	Lower dash	f.	T=1.4 mm (0.055 in)	980 ^{caution}	×	_
13.	Lower dash crossmember		T=2.0 mm (0.079 in)	980 ^{caution}	×	_
14.	Side dash (LH/RH)			590	×	—
15.	Front strut housing (LH/RH)			590	×	_
16.	Lower front hoodledge (LH/RH)			Under 440	×	_
17.	Upper hoodledge (LH/RH)			Under 440	×	_
18.	Hoodledge reinforcement (LH/RH)			Under 440	×	—
19.	Hoodledge connector (LH/RH)			Under 440	×	—
20.	Side radiator core support (LH/RH)			Under 440	×	—
21.	Inner center front bumper reinforcement			—		×
22.	Front side member front assembly (LH/RH)			590	×	—
23.	Front side member assembly (LH/RH)			780	×	—
24.	Front suspension front mounting bracket (LH/RH)			590	×	—
25.	Front side member closing plate assembly (LH/RH)			780	×	—
26.	Outer add on frame bracket (LH/RH)			Under 440	×	—
27.	Front suspension rear mounting bracket (LH/RH)			Under 440	×	—
28.	Rear seat crossmember			440	×	
29.	Rear crossmember center assembly			440	×	—
30.	7th crossmember			Under 440	×	—

Revision: May 2014

BODY COMPONENT PARTS

< PREPARATION >

No.	Parts name	Tensile strength (MPa)	Both sided anti-corrosive precoated steel sections	Aluminum portion	А
31.	Rear side member (LH/RH)	780	×	_	В
32.	Rear side member extension reinforcement assembly (LH/RH)	440	×	_	
33.	Rear side member extension (LH/RH)	590	×	_	
NOTE	·	÷			С

NOTE:

• For the parts without a number described in the figure, it is supplied only with the assembly part that the part is included with.

• Tensile strength column shows the largest strength value of a part in the component part.

CAUTION:

If the high strength steel (ultra high strength steel) of this is broken, replace by assembly for the supply part.

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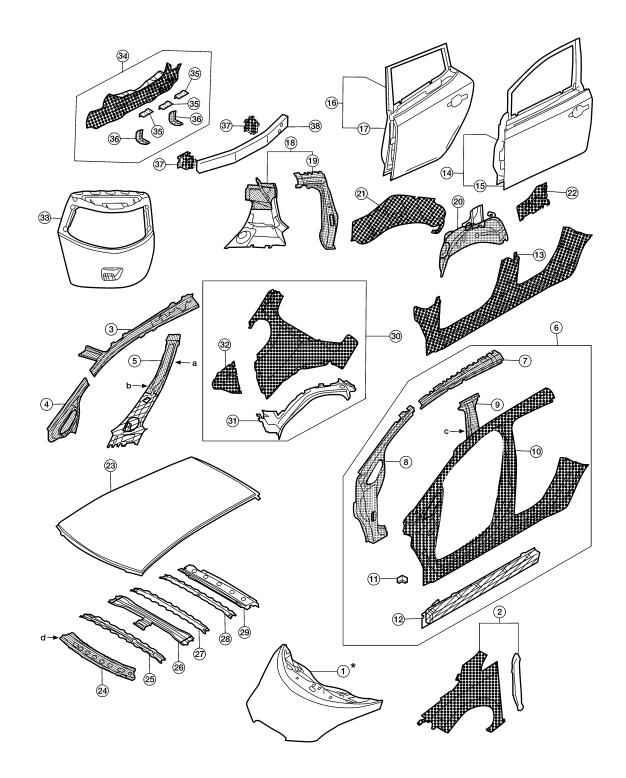
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< PREPARATION >

Body Component Parts

INFOID:000000010121689



AWKIA2382ZZ

Both sided anti-corrosive precoated steel sections

High strength steel (HSS) sections

Both sided anti-corrosive steel and HSS sections

*: Aluminum portion

BODY COMPONENT PARTS

< PREPARATION >

No.	Parts name	Tensile strength (MPa)	Both sided anti-corrosive precoated steel sections	Aluminum portion			
1.	Hood	—	—	×	·		
2.	Front fender (LH/RH)			Under 440	×	—	
3.	Inner side roof rail (LH/RH)			780		_	(
4.	Upper inner front pillar (LH/RH)			780		_	
5.	Inner center pillar assembly (LH/RH)	a.	T=1.6 mm (0.063 in)	980 ^{caution}	_	_	
0.		b.	T=1.4 mm (0.055 in)	980 ^{caution}	—	_	
6.	Side body assembly (LH/RH)			Re	efer to No.7-12		
7.	Outer side roof rail reinforcement (LH/RH) T=1.4 mm (0.055 in)			980 ^{caution}	_	_	
8.	Front pillar brace (LH/RH)			590		_	-
9.	Lower center pillar brace (LH/RH)	980 ^{caution}	—	_			
10.	Outer front side body (LH/RH)		1	Under 440	×	_	-
11.	Front fender bracket assembly (LH/RH)			Under 440	×	_	
12.	Outer sill reinforcement (LH/RH)			780	×	_	-
13.	Outer sill (LH/RH)			Under 440	×	_	
14.	Front door (LH/RH)					×	
15.	Outer front door panel (LH/RH)					×	
16.	Rear door (LH/RH)					×	
17.	Outer rear door panel (LH/RH)					×	
18.	Inner rear pillar (LH/RH)			440	_	_	
19.	Inner rear pillar reinforcement (LH/RH)			440		_	
20.	Inner rear wheelhouse (LH/RH)			590	×	_	
21.	Outer rear wheelhouse (LH/RH)			Under 440	×	_	
22.	Outer rear wheelhouse extension (LH/RH)			Under 440	×	_	
23.	Roof			Under 440	_	_	
24.	Front roof rail	d.	T=1.0 mm (0.039 in)	980 ^{caution}	_	_	
25.	Roof bow No.1		1	Under 440	—	_	
26.	Center roof reinforcement			590	—	_	
27.	Roof bow No.3			Under 440	—	_	
28.	Roof bow No.4			Under 440	—	_	
29.	Rear roof rail			Under 440	—	_	
30.	Rear fender (LH/RH)			Under 440	×	_	
31.	Rear fender extension (LH/RH)				—		
32.	Rear fender corner (LH/RH)			Under 440	×	_	
33.	Back door			Under 440	×	_	
34.	Upper rear panel			440	×	_	
35.	Upper rear bumper retainer			Under 440	×		
36.	Rear side bumper bracket			Under 440	×		

BODY COMPONENT PARTS

< PREPARATION >

No.	Parts name	Tensile strength (MPa)	Both sided anti-corrosive precoated steel sections	Aluminum portion
37.	Rear bumper stay (LH/RH)	Under 440	×	_
38.	Inner center rear bumper reinforcement	_	_	×

NOTE:

• For the parts without a number described in the figure, it is supplied only with the assembly part that the part is included with.

• Tensile strength column shows the largest strength value of a part in the component part.

CAUTION:

If the high strength steel (ultra high strength steel) of this is broken, replace by assembly for the supply part.

BASIC INSPECTION REPAIR WORK FLOW

Repair Judgment Flow

INFOID:000000010121690 В

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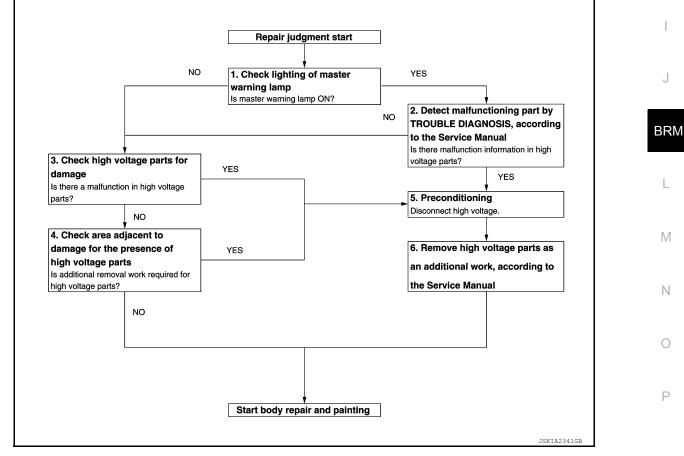
WARNING:

- Because hybrid vehicles and electric vehicles contain a high voltage battery, there is the risk of electric shock, electric leakage, or similar accidents if the high voltage component and vehicle are handled incorrectly. Be sure to follow the correct work procedures when performing inspection and maintenance.
- Be sure to remove the service plug in order to disconnect the high voltage circuits before perform-ing inspection or maintenance of high voltage system harnesses and parts.
- To prevent the removed service plug from being connected by mistake during the procedure, always carry it in your pocket or put it in the tool box.
- · Be sure to wear insulating protective equipment consisting of glove, shoes, face shield and glasses before beginning work on the high voltage system.
- Clearly identify the persons responsible for high voltage work and ensure that other persons do not touch the vehicle. When not working, cover high voltage parts with an insulating cover sheet or similar item to prevent other persons from contacting them.
- Refer to <u>GI-34, "High Voltage Precautions".</u>

CAUTION:

There is the possibility of a malfunction occurring if the vehicle is changed to READY status while the service plug is removed. Therefore do not change the vehicle to READY status unless instructed to do so in the Service Manual.

OVERALL SEQUENCE



DETAILED FLOW

1.CHECK LIGHTING OF MASTER WARNING LAMP

Check that the master warning lamp is ON.

REPAIR WORK FLOW

< BASIC INSPECTION >

Is master warning lamp ON?

YES >> GO TO 2.

NO >> GO TO 3.

2.detect malfunctioning part by trouble diagnosis, according to the service manual

Connect CONSULT to check malfunction information.

Is there malfunction information in high voltage parts?

YES >> GO TO 5. NO >> GO TO 3.

3.CHECK HIGH VOLTAGE PARTS FOR DAMAGE

Visually check high voltage parts for damage.

WARNING:

When performing high voltage-related work, always wear insulating protective gear.

Is there a malfunction in high voltage parts?

YES >> GO TO 5.

NO >> GO TO 4.

4.CHECK AREA ADJACENT TO DAMAGE FOR THE PRESENCE OF HIGH VOLTAGE PARTS

Check high voltage parts requiring additional removal work.

Is additional removal work required for high voltage parts?

YES >> GO TO 5.

NO >> Start body repair and painting.

5. PRECONDITIONING

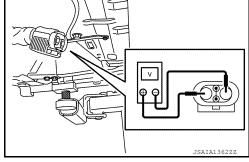
WARNING:

Disconnect high voltage. Refer to GI-33, "How to Disconnect High Voltage".

- Check voltage in high voltage circuit. (Check that condenser are discharged.)
- 1. Lift up the vehicle and remove the battery under covers. Refer to EVB-181, "Exploded View".
- 2. Disconnect high voltage connector from front side of Li-ion battery. Refer to EVB-181, "Removal and Installation".
- 3. Measure voltage between high voltage harness connector terminals.

DANGER:

Touching high voltage components without using the appropriate protective equipment will cause electrocution.



Standard

: 5 V or less

CAUTION:

For voltage measurements, use a tester which can measure to 500V or higher.

>> GO TO 6.

oldsymbol{6}. REMOVE HIGH VOLTAGE PARTS AS AN ADDITIONAL WORK, ACCORDING TO THE SERVICE MANUAL

Remove high voltage parts as an additional work, according to the Service Manual.

WARNING:

When performing high voltage-related work, always wear insulating protective gear.

>> Start body repair and painting.

BRM-24

< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION CORROSION PROTECTION

Description

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

ANTI-CORROSIVE PRECOATED STEEL (GALVANNEALED STEEL)

To improve repairability and corrosion resistance, a new type of anticorrosive precoated steel sheet has been adopted replacing conventional zinc-coated steel sheet.

Galvannealed steel is electroplated and heated to form Zinc-iron alloy, which provides excellent and long term corrosion resistance with cationic electrodeposition primer.

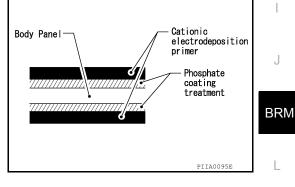
NISSAN Genuine Service Parts are fabricated from galvannealed steel. Therefore, it is recommended that GENUINE NISSAN PARTS or equivalent be used for panel replacement to maintain the anti-corrosive performance built into the vehicle at the factory.

PHOSPHATE COATING TREATMENT AND CATIONIC ELECTRODEPOSITION PRIMER

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

CAUTION:

Confine paint removal during welding operations to an absolute minimum.



7n-Fe

Steel sheet(Fe)

Zn-Fe

Both sided precoated

SIIA2294E

Zn rich

Zn rich

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

Undercoating

The underside of the floor and wheelhouse are undercoated to prevent rust, vibration, noise and stone chipping. Therefore, when such a panel is replaced or repaired, apply undercoating to that part. Use an undercoating which is rust resistant, soundproof, vibration-proof, shock-resistant, adhesive, and durable.

PRECAUTIONS IN UNDERCOATING

- 1. Never apply undercoating to any place unless specified (such as the areas above the muffler and threeway catalyst that are subjected to heat).
- 2. Never undercoat the exhaust pipe or other parts that become hot.
- 3. Never undercoat rotating parts.
- 4. Apply bitumen wax after applying undercoating.
- 5. After putting seal on the vehicle, put undercoating on it.

BRM-25

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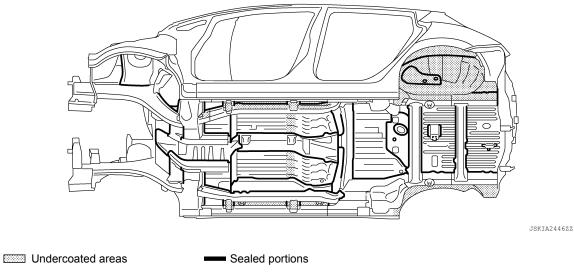
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CORROSION PROTECTION

< REMOVAL AND INSTALLATION >



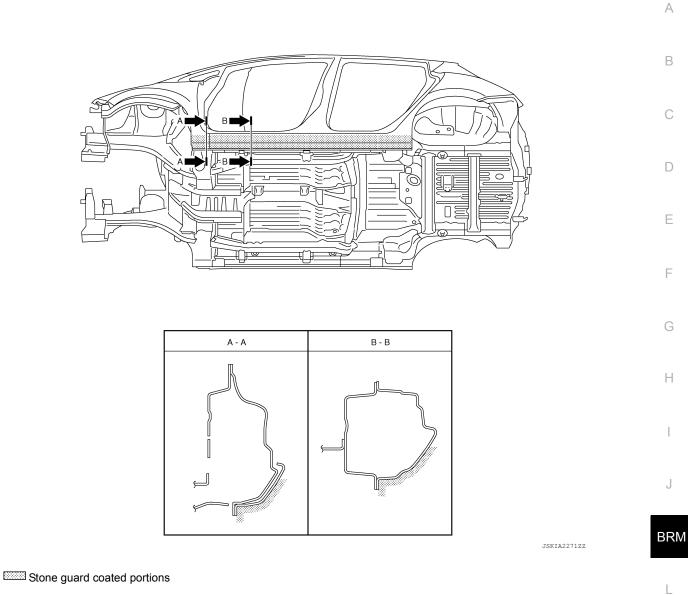
Stone Guard Coat

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

CORROSION PROTECTION

< REMOVAL AND INSTALLATION >



Body Sealing

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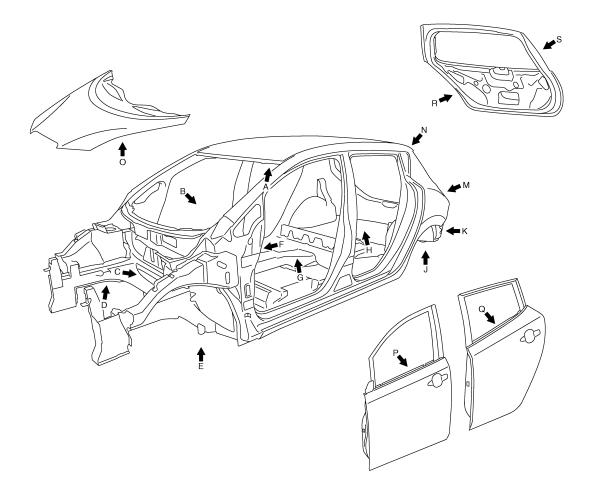
The following figure shows the areas that are sealed at the factory. Sealant that is applied to these areas should be smooth and free from cuts or gaps. Care should be taken not to apply an excess amount of sealant and not to allow other unaffected parts to come into contact with the sealant.

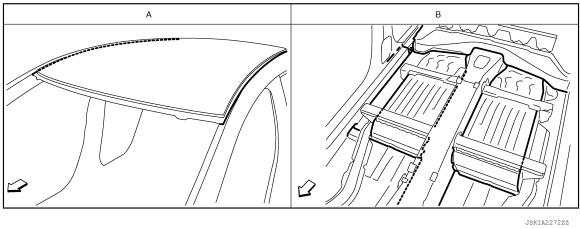
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< REMOVAL AND INSTALLATION >



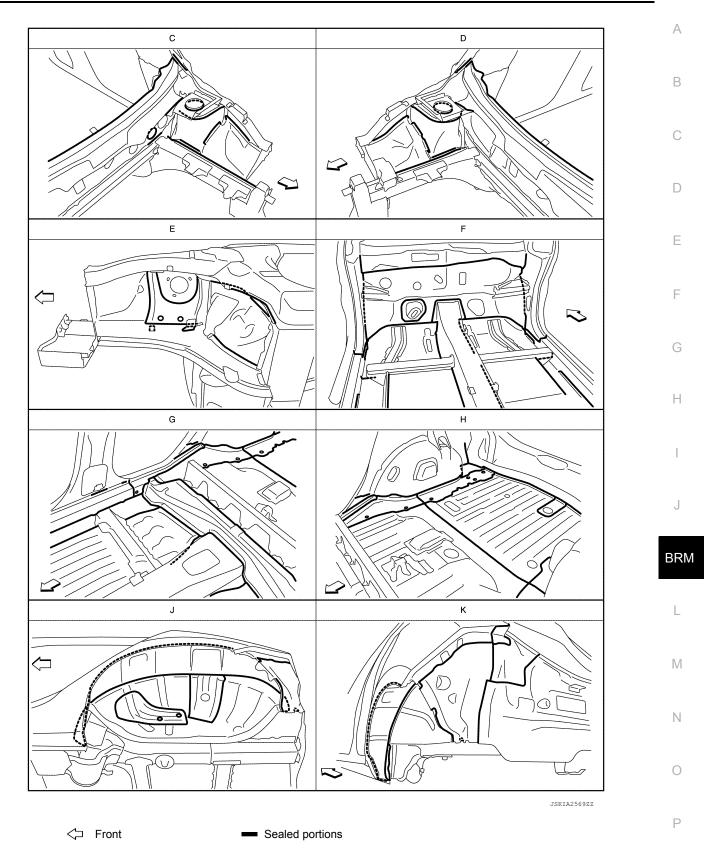


← Front

Sealed portions

CORROSION PROTECTION

< REMOVAL AND INSTALLATION >



CORROSION PROTECTION

< REMOVAL AND INSTALLATION >



< REMOVAL AND INSTALLATION >

BODY CONSTRUCTION

Body Construction

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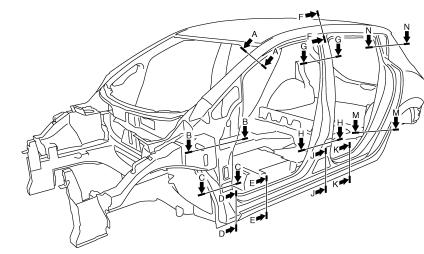
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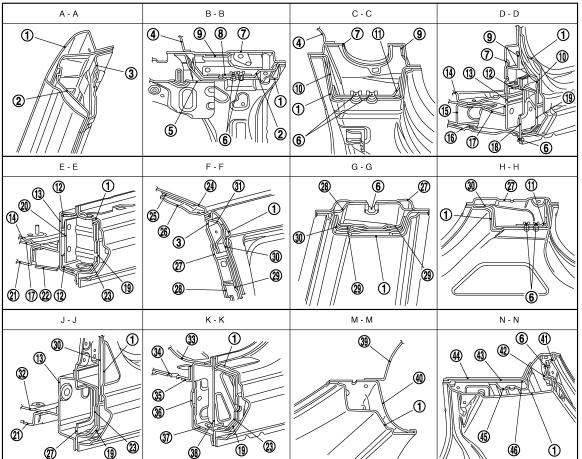
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- 1. Outer side body
- Upper dash 4.
- Side dash 7.
- **Revision: May 2014**

- 2. Outer front pillar reinforcement
- Hoodledge reinforcement 5.
- Upper hinge plate 8.
- - 3. Inner front side roof rail
 - Weld nut 6.
 - Inner front pillar reinforcement 9.

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BODY CONSTRUCTION

< REMOVAL AND INSTALLATION >

- 10. Lower dash
- 13. Inner front sill reinforcement
- 16. Front side member closing plate
- 19. Lower front pillar reinforcement
- 22. Front side member extension rear
- 25. Roof
- 28. Inner center pillar
- 31. Center pillar hinge brace
- 34. Rear side member closing plate
- 37. Inner sill extension
- 40. Inner rear wheelhouse
- 43. Back door stay bracket
- 46. Inner rear pillar reinforcement

- 11. Lower front pillar hinge brace
- 14. Inner sill
- 17. Front outrigger
- 20. Outer sill reinforcement
- 23. Floor member extension
- 26. Center roof reinforcement
- 29. Center pillar seat belt anchor
- 32. Outer side roof rail
- 35. Rear side member reinforcement
- 38. Inner rear sill reinforcement
- 41. Outer rear wheelhouse
- 44. Inner rear pillar
- 47. Rear pillar seat belt anchor

- 12. Lower hinge plate
- 15. Front side member extension center
- 18. Front floor front
- 21. Outer sill brace
- 24. Center sill reinforcement
- 27. Roof member reinforcement
- 30. Center pillar reinforcement
- 33. Front floor side
- 36. Rear side member
- 39. Outer rear wheelhouse extension
- 42. Rear fender extension
- 45. Rear roof rail brace

INFOID:000000010121696

- Rear Fender Hemming Process
- 1. A wheel arch is to be installed and hemmed over the left and right outer wheel houses.
- In order to hem the wheel arch, it is necessary to repair any damaged or defaced parts around outer wheel house.

CAUTION:

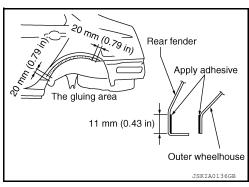
Ensure that the area that is to be glued around the outer wheelhouse is undamaged or defaced.

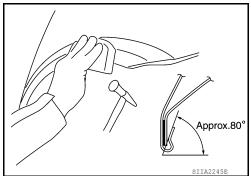
PROCEDURE OF THE HEMMING PROCESS

- Peel off old bonding material on the surface of the outer wheelhouse and clean thoroughly.
- Peel off a primer coat in the specified area where new adhesive is to be applied on rear fender (the replacing part).
- Apply new adhesive to both specified areas of the outer wheelhouse and rear fender.

<Adhesive> 3M[™] Automix[™] Panel Bonding Adhesive 08115 or equivalent

- Attach rear fender to the body of the car, and weld the required part except the hemming part.
- Bend the welded part starting from the center of the wheel arch gradually with a hammer and a dolly. (Also hem the end of the flange.)
- Hemming with a hammer is conducted to an approximate angle of 80 degrees.

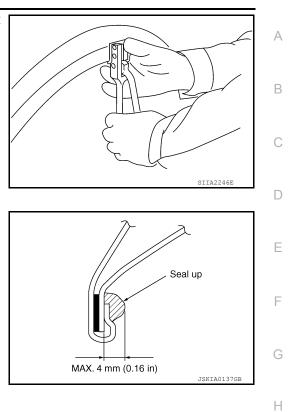




BODY CONSTRUCTION

< REMOVAL AND INSTALLATION >

• Starting from the center, hem the wheel arch gradually, using slight back and forth motion with a hemming tool.



• Seal up the area around the hemmed end of the flange.

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REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >

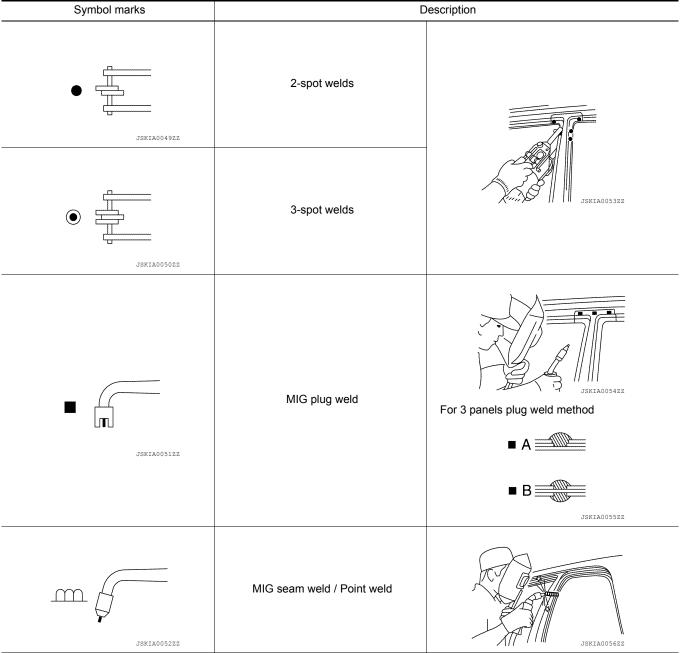
REPLACEMENT OPERATIONS

Description

INFOID:000000010121697

- This section is prepared for technicians who have attained a high level of skill and experience in repairing collision-damaged vehicles and also use modern service tools and equipment. Persons unfamiliar with body repair techniques should not attempt to repair collision-damaged vehicles by using this section.
- Technicians are also encouraged to read the Body Repair Manual (Fundamentals) in order to ensure that the original functions and quality of the vehicle are maintained. The Body Repair Manual (Fundamentals) contains additional information, including cautions and warnings, that are not including in this manual. Technicians should refer to both manuals to ensure proper repair.
- Please note that this information is prepared for worldwide usage, and as such, certain procedures might not
 apply in some regions or countries.

The symbols used in this section for welding operations are shown below.



REPLACEMENT OPERATIONS

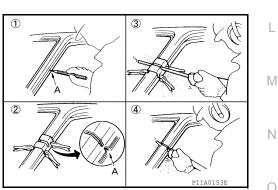
< REMOVAL AND INSTALLATION >

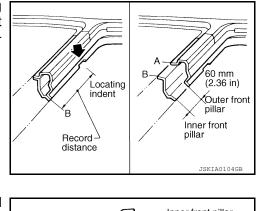
• Front pillar butt joint can be determined anywhere within shaded area (A) as shown in the figure. The best location for the butt joint is within the (B) location due to the construction of the vehicle.

 Determine cutting position and record distance from the locating indent (B) Use this distance when cutting the service part. Cut outer front pillar (A) over 60 mm (2.36 in) above the inner front pillar cut position.

 Prepare a cutting jig to make outer pillar easier to cut. Also, this will permit the service part to be accurately cut at the joint position.

- An example of cutting operation using a cutting jig is as per the following.
- Mark cutting lines cut position of outer pillar (A) and the inner pil-1. lar.
- 2. Align cutting line with notch on jig. Clamp jig to pillar.
- 3. Cut outer pillar along groove of jig (at position A).
- 4. Remove jig and cut remaining portions.
- 5. Cut inner pillar in same manner.





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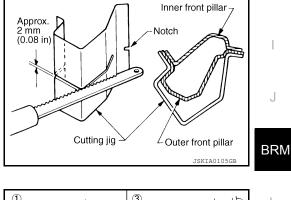
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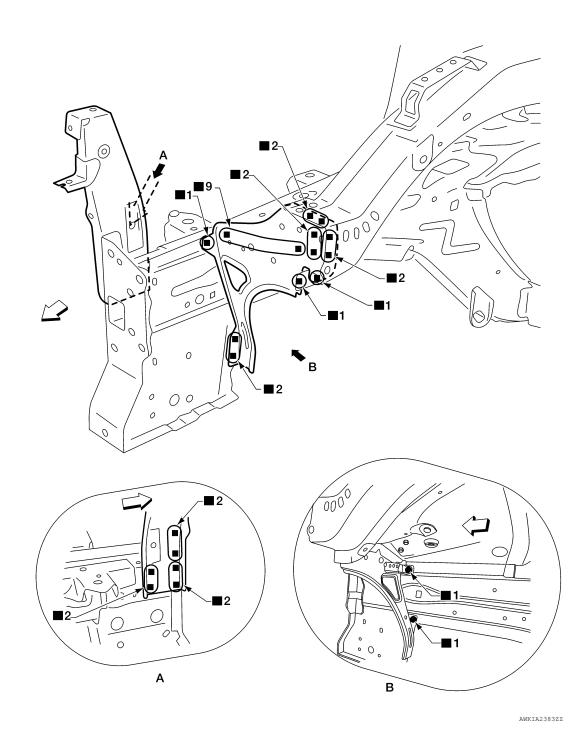


REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >

Radiator Core Support

INFOID:000000010121698



<⊐ Front

Replacement parts

• Side radiator core support (LH) • Hoodledge connector (LH)

High voltage system parts (Removal required depending on damage)

- Service plug
- Charge port

BRM-36

• Front side Li-ion battery high voltage harness connector

Hoodledge

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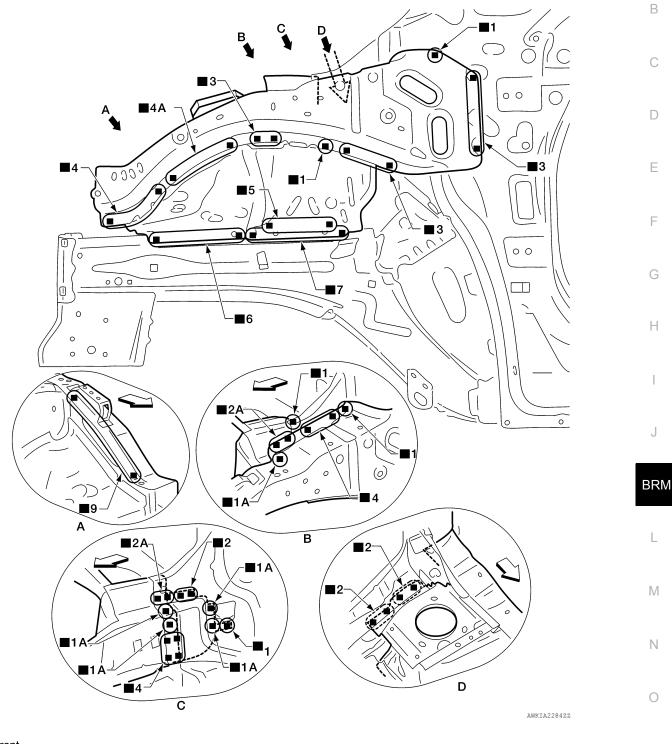
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Work after radiator core support is removed.



← Front

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Replacement parts

• Hoodledge reinforcement (LH)

High voltage system parts (Removal required depending on damage)

- Service plug
- Charge port
- Electric compressor

Front strut housing (LH)

Front side Li-ion battery high voltage harness connector •

Traction motor

DC/DC-J/B

•

•

- PTC elements heater
- Traction motor inverter •

Revision: May 2014

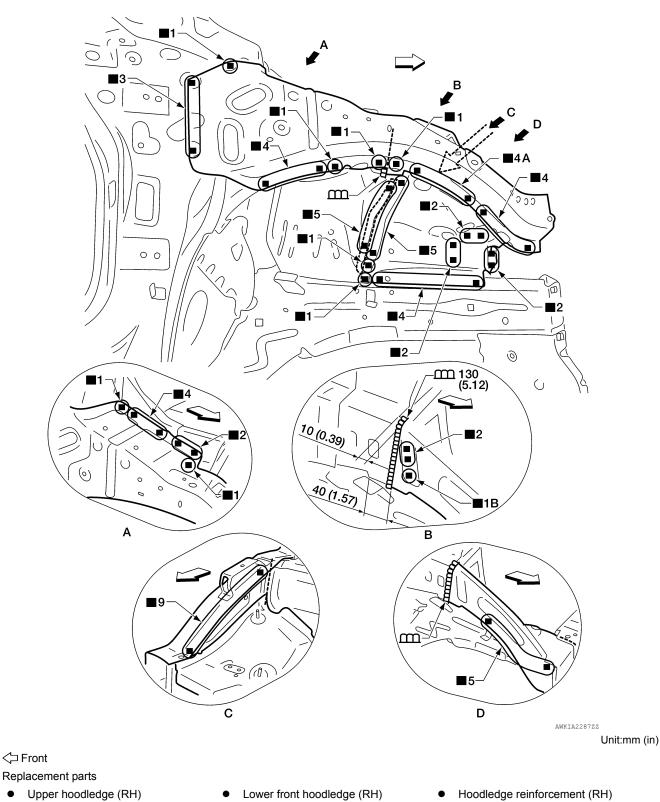
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View C: Before installing hoodledge reinforcement

Hoodledge (Partial Replacement)

Work after radiator core support is removed.

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High voltage system parts (Removal required depending on damage)

Service plug

• Front side Li-ion battery high voltage harness connector

< REMOVAL AND INSTALLATION >

Charge port •

- PTC elements heater •
- Electric compressor •
- Traction motor inverter
- Traction motor .

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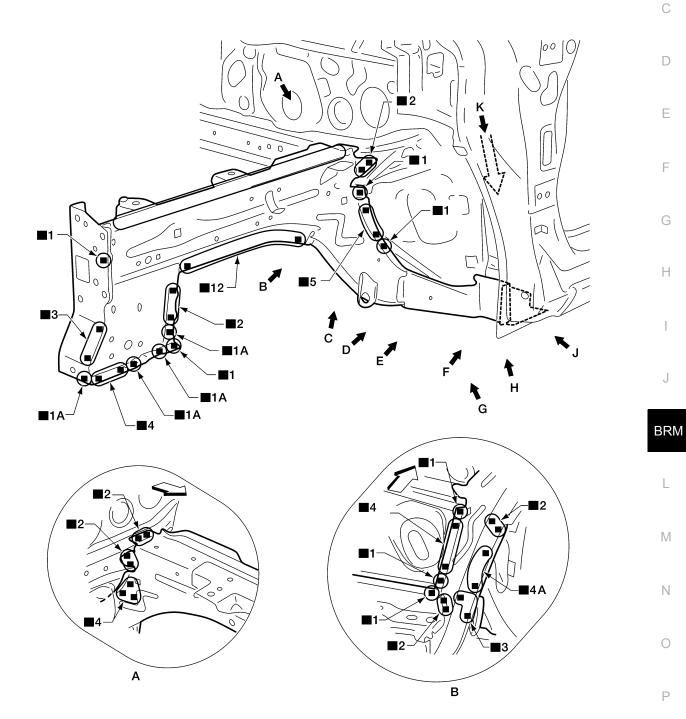
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DC/DC-J/B •

View B and D: Before installing hoodledge reinforcement

Front Side Member

Work after radiator core support and hoodledge are removed.



C Front

Drill ϕ 8 mm (0.31 in) hole for the plug welding hole (ultra high strength steel plate). Replacement parts

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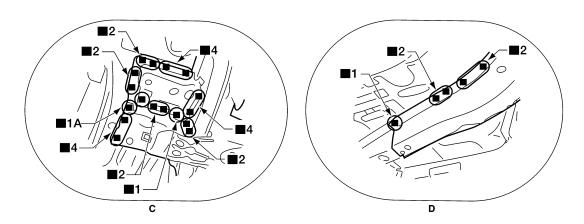
< REMOVAL AND INSTALLATION >

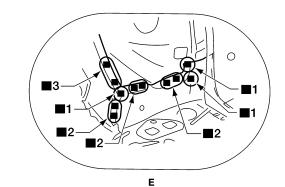
- Front side member assembly (LH) •
- Front side member closing plate as-٠ sembly (LH)
- Front suspension mounting bracket ۲ (LH Rear)

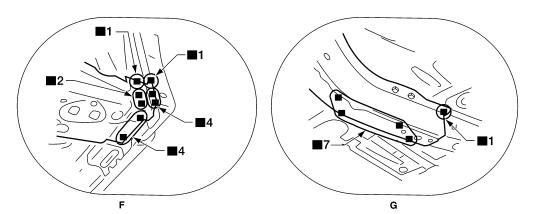
High voltage system parts (Removal required depending on damage)

Service plug •

- Front side Li-ion battery high voltage harness connector ٠ PTC elements heater
- Charge port Electric compressor
- Traction motor inverter
- Traction motor
 - DC/DC-J/B







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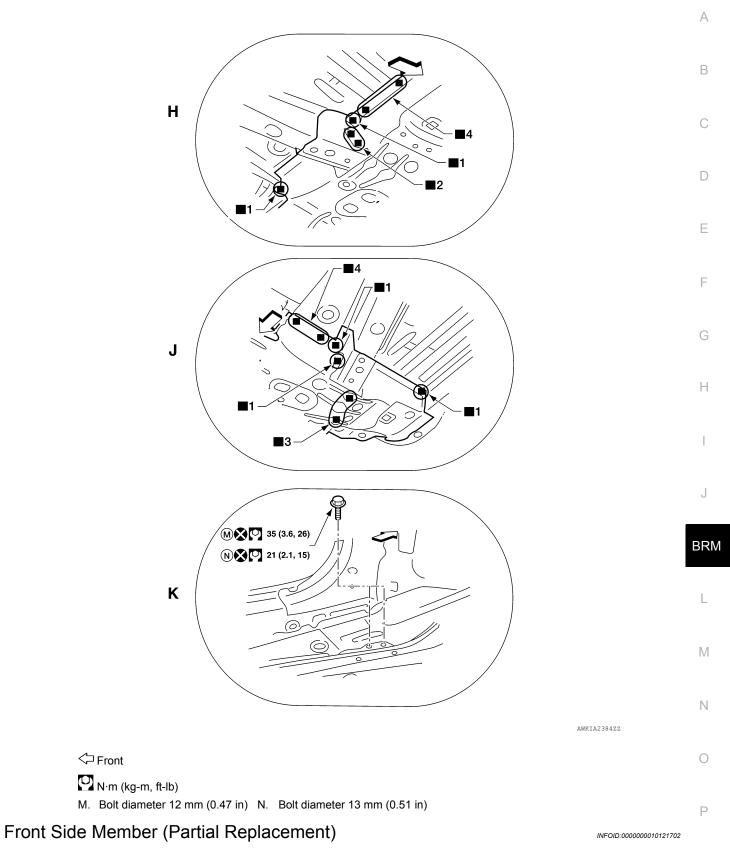
C Front

View D and G: Before installing front suspension mounting bracket (Rear)

Revision: May 2014

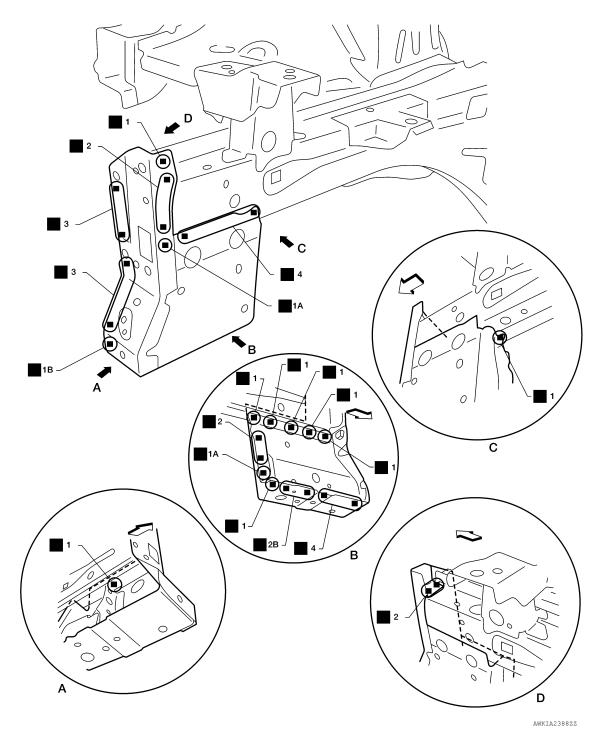
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< REMOVAL AND INSTALLATION >



Work after radiator core support is removed.

< REMOVAL AND INSTALLATION >



C Front

Replacement parts

Front suspension mounting bracket

Outer add on frame bracket (RH) . (RH Front)

High voltage system parts (Removal required depending on damage)

• Service plug

Front side Li-ion battery high voltage harness connector •

Charge port ٠

View A: Before installing outer add on frame bracket

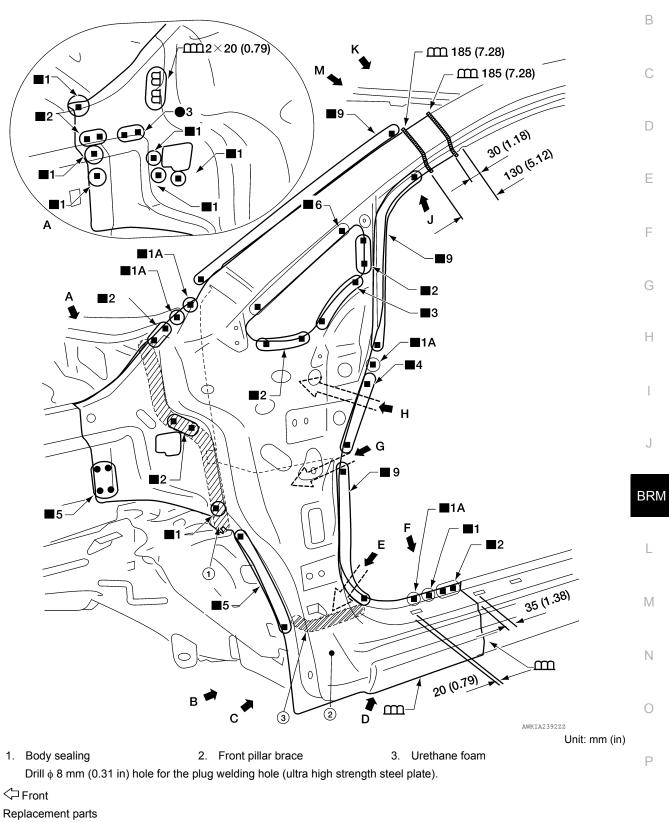
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Front Pillar

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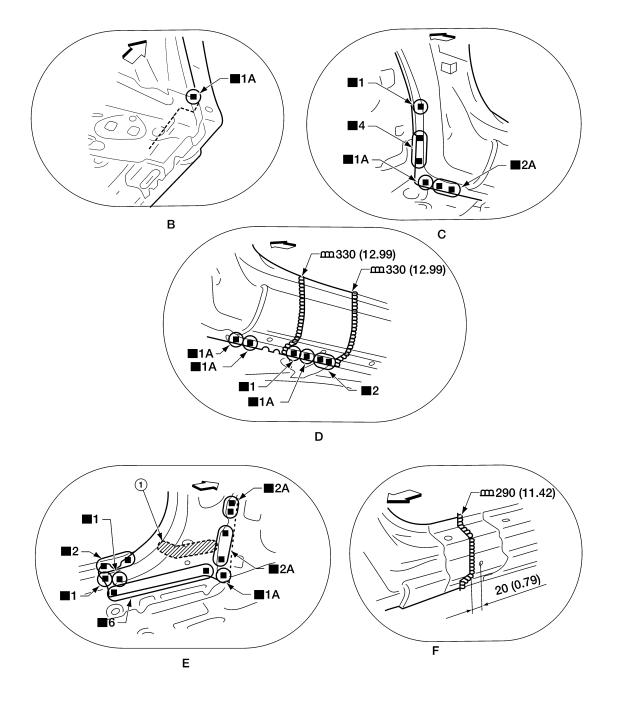
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Work after hoodledge reinforcement is removed.

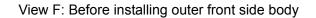


• Side body assembly (LH)

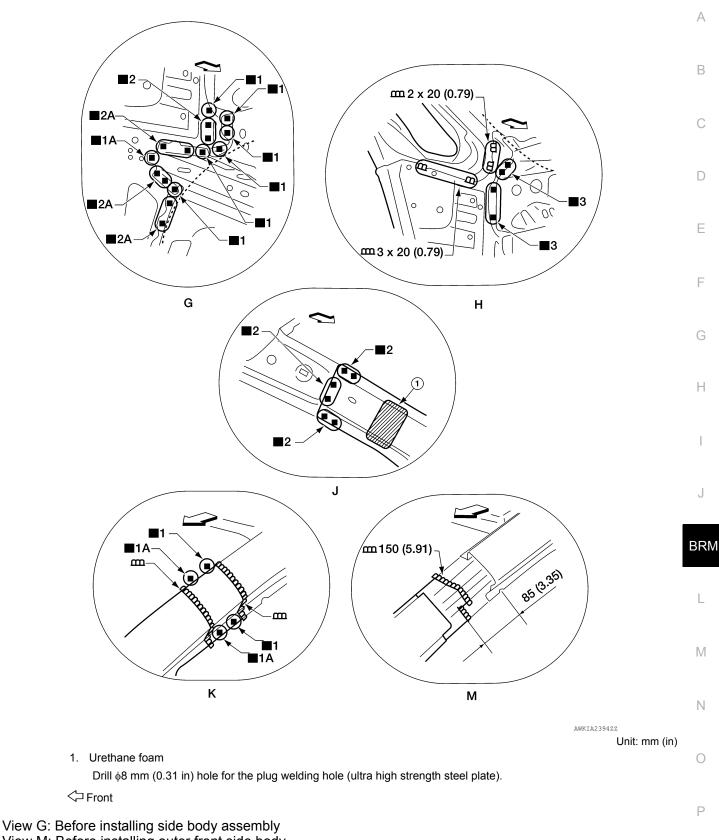
• Side dash (LH)



AWKIA239322 Unit: mm (in)



< REMOVAL AND INSTALLATION >



View M: Before installing outer front side body

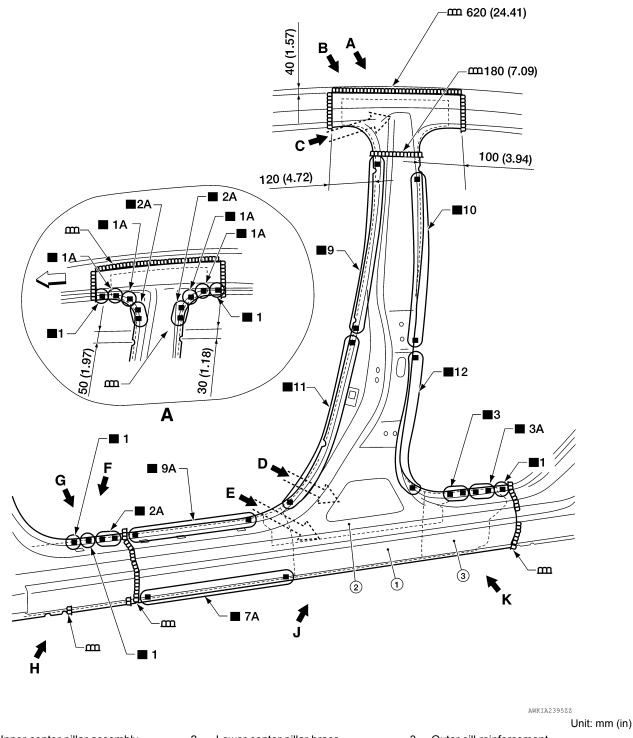
Center Pillar

Install the inner center pillar assembly to the side body assembly as shown in the figure for repairing the hidden welding point "View E".

Revision: May 2014

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INFOID:000000010121704



 1. Inner center pillar assembly
 2. Lower center pillar brace
 3. Outer sill reinforcement

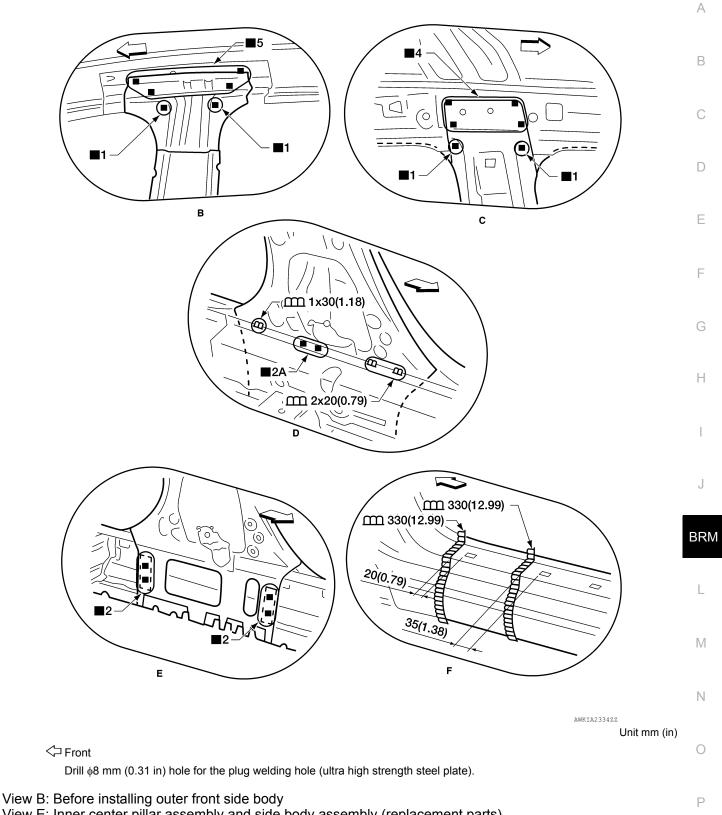
 Drill \u03b88 mm (0.31 in) hole for the plug welding hole (ultra high strength steel plate).
 3.

C Front

Replacement parts

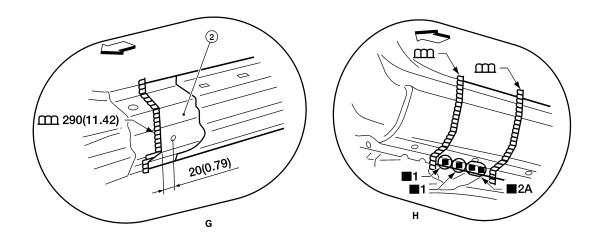
- Side body assembly (LH)
- Inner center pillar assembly (LH)

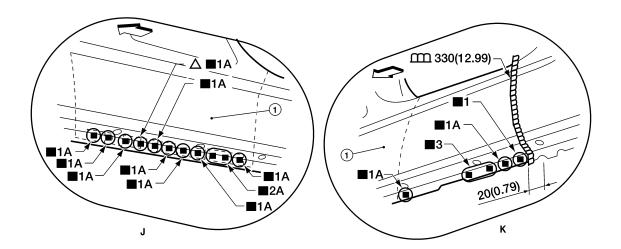
< REMOVAL AND INSTALLATION >



View E: Inner center pillar assembly and side body assembly (replacement parts)

< REMOVAL AND INSTALLATION >





AWKIA2396ZZ Unit: mm (in)

1. Inner center pillar assembly 2. Outer sill reinforcement

< → Front

Drill $\phi 8$ mm (0.31 in) hole for the plug welding hole (ultra high strength steel plate).

View G: Before installing outer front side body

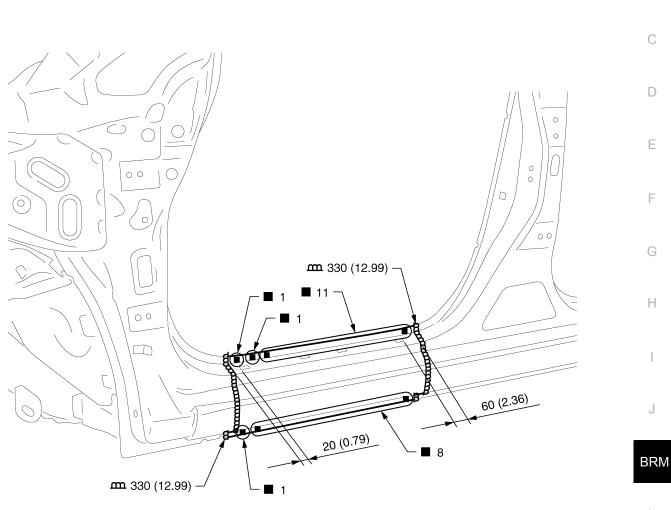
< REMOVAL AND INSTALLATION >

Outer Sill (Partial Replacement)

INFOID:000000010121705

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Ο JSKIA2315GB Unit:mm (in)

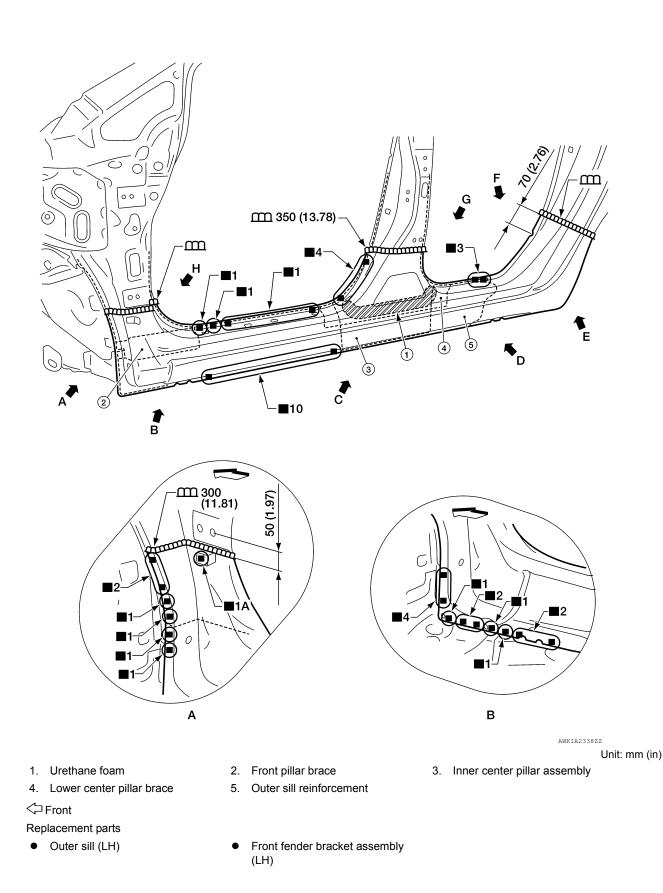
Replacement parts

• Outer sill (LH)

< REMOVAL AND INSTALLATION >

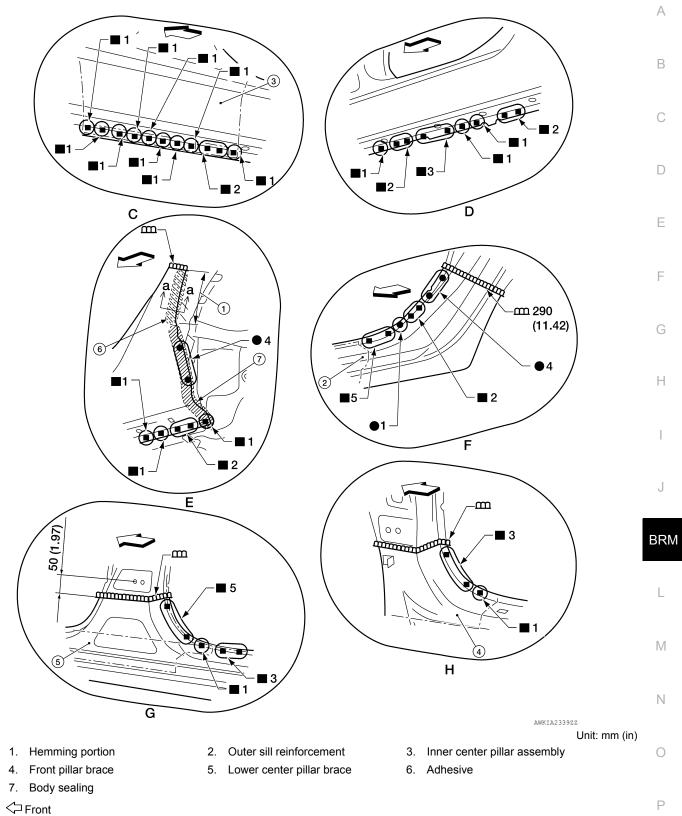
Outer Sill

INFOID:000000010121706



BRM-50

< REMOVAL AND INSTALLATION >

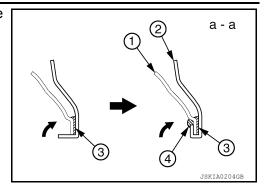






< REMOVAL AND INSTALLATION >

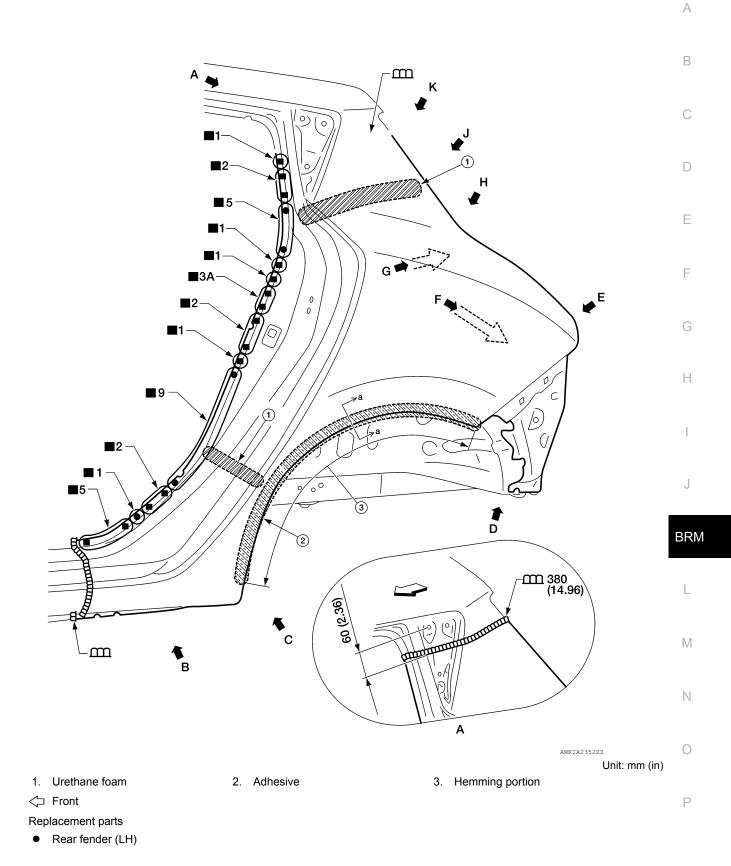
- Perform the hemming to the flange of wheel arch after applying the adhesive.
- Apply the sealing to the flange end.
- Refer to <u>BRM-32. "Rear Fender Hemming Process"</u>.
 - 1. Outer rear wheelhouse
 - 2. Rear fender
 - 3. Adhesive
 - 4. Sealant



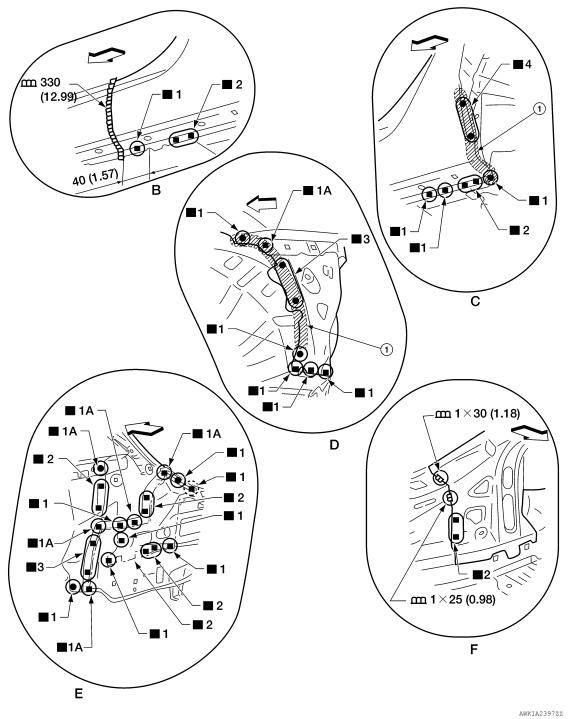
< REMOVAL AND INSTALLATION >

Rear Fender

INFOID:000000010121707



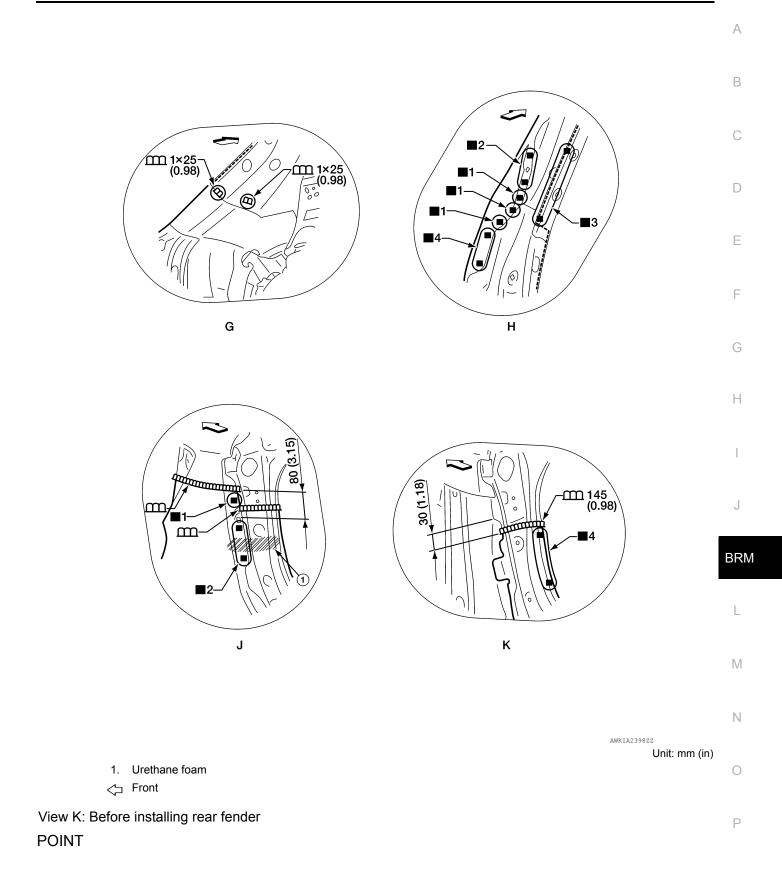
< REMOVAL AND INSTALLATION >



Unit: mm (in)

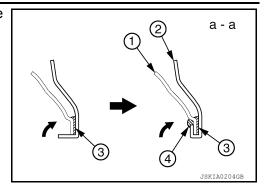
Body sealing

 ← Front



< REMOVAL AND INSTALLATION >

- Perform the hemming to the flange of wheel arch after applying the adhesive.
- Apply the sealing to the flange end.
- Refer to <u>BRM-32. "Rear Fender Hemming Process"</u>.
 - 1. Outer rear wheelhouse
 - 2. Rear fender
 - 3. Adhesive
 - 4. Sealant



< REMOVAL AND INSTALLATION >

Rear Fender Extension

INFOID:000000010121708

А

BRM

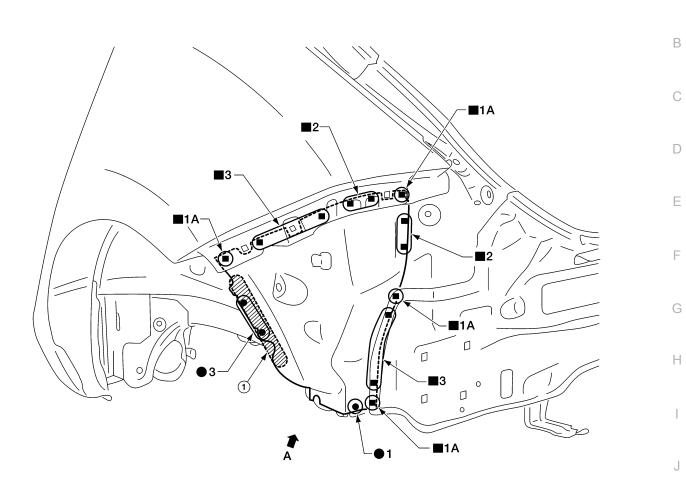
L

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Ν

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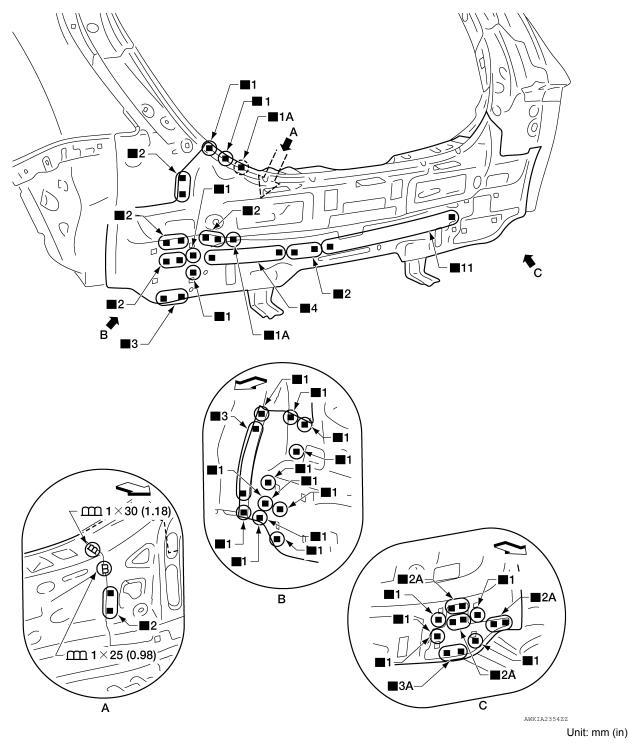
AWKIA239922
1. Body sealing

← Front
Replacement parts

Rear fender corner (LH)

Rear Panel

INFOID:000000010121709



Replacement parts

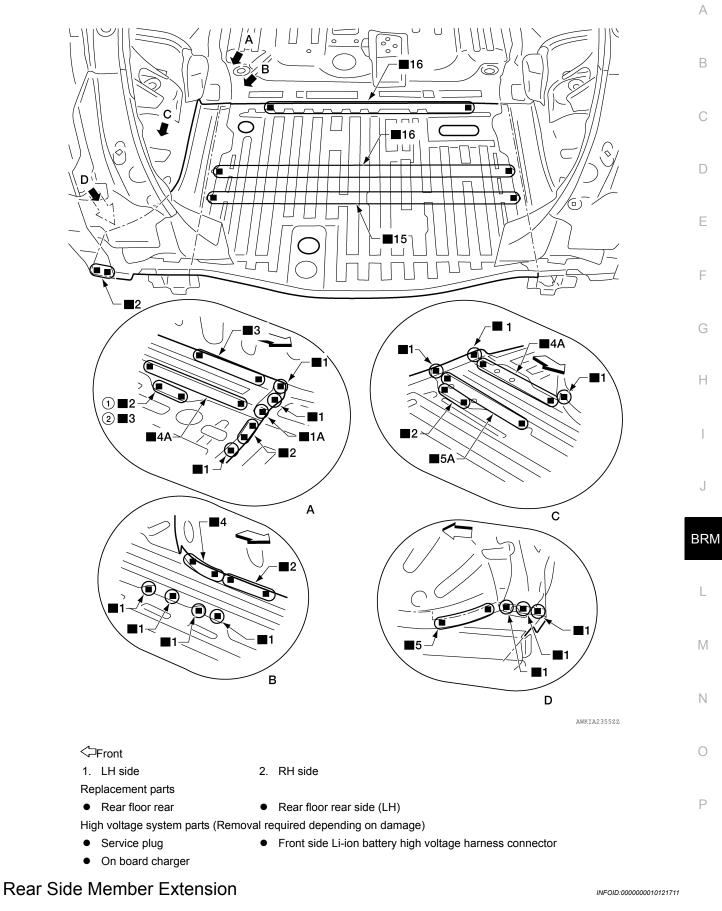
- Front
- Upper rear panel

Rear Floor Rear

Work after rear panel is removed.

INFOID:000000010121710

< REMOVAL AND INSTALLATION >

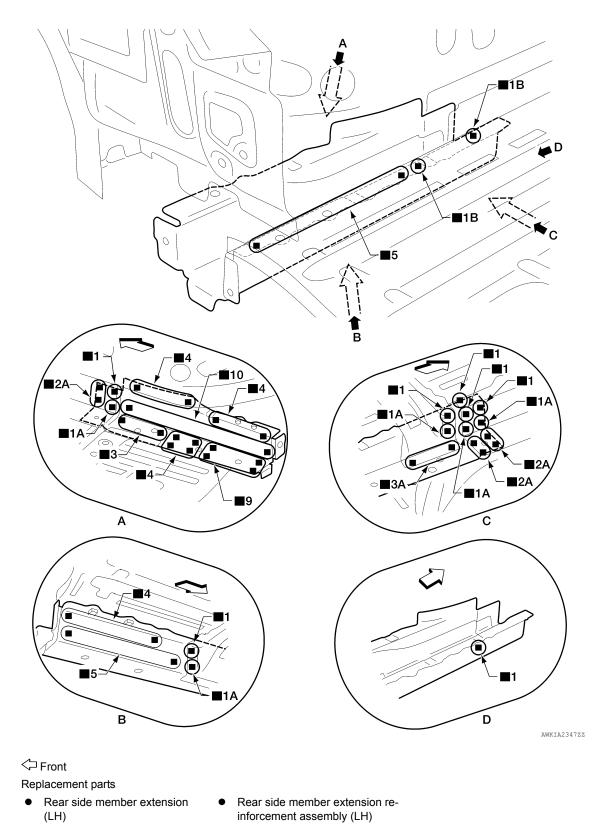


Work after rear panel is removed.

Revision: May 2014

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< REMOVAL AND INSTALLATION >

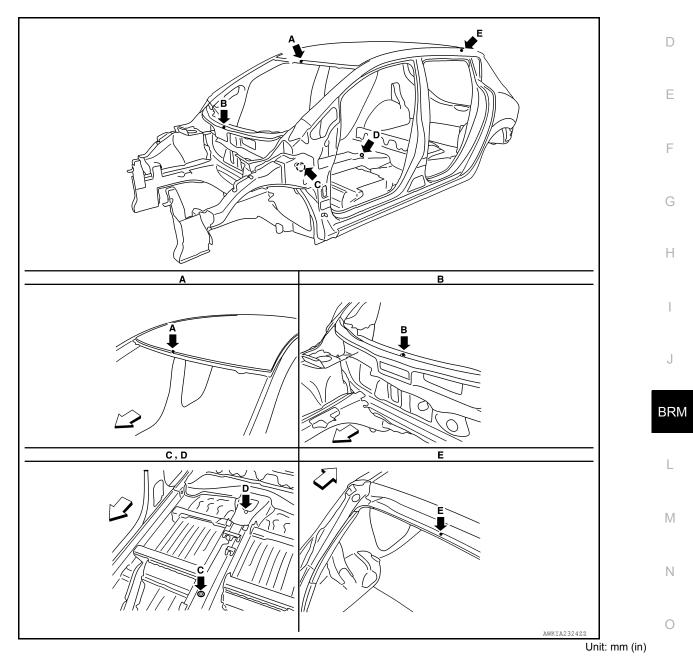


View D: Before installing replacement parts (Weld the rear side member extension and rear side member extension reinforcement assembly)

BODY ALIGNMENT < SERVICE DATA AND SPECIFICATIONS (SDS) SERVICE DATA AND SPECIFICATIONS (SDS) BODY ALIGNMENT

Body Center Marks

A mark is placed on each part of the body to indicate the vehicle center. When repairing the vehicle frame (members, pillars, etc.) damaged by an accident which it enables more accurate and effective repair by using these marks together with body alignment specifications.



<⊐ Front

Portion	Description
A	Front roof embossment
В	Cowl top embossment
С	Trans control reinforcement hole ϕ 31 (1.22)

BRM-61

Ρ

А

В

С

INFOID:0000000010121712

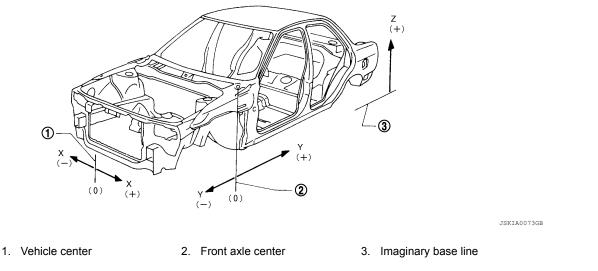
< SERVICE DATA AND SPECIFICATIONS (SDS)

Portion	Description
D	Center front floor hole ϕ 11 (0.43)
E	Rear roof embossment

Description

INFOID:000000010121713

- All dimensions indicated in the figures are actual.
- When using a tracking gauge, adjust both pointers to equal length. Then check the pointers and gauge itself to make sure there is no free play.
- When a measuring tape is used, check to be sure there is no elongation, twisting or bending.
- Measurements should be taken at the center of the mounting holes.
- An asterisk (*) following the value at the measuring point indicates that the measuring point on the other side is symmetrically the same value.
- The coordinates of the measurement points are the distances measured from the standard line of "X", "Y" and "Z".
- "Z": Imaginary base line [200 mm (7.87 in) below datum line ("0Z" at design plan)]



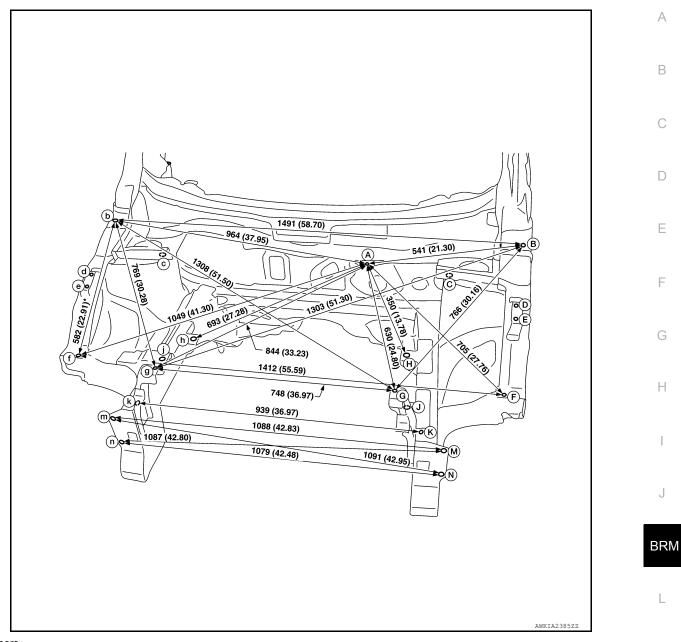
Motor Room

INFOID:000000010121714

MEASUREMENT

Dimensions marked with "*" indicate symmetrically identical dimensions on both the right and left hand of the vehicle.

< SERVICE DATA AND SPECIFICATIONS (SDS)



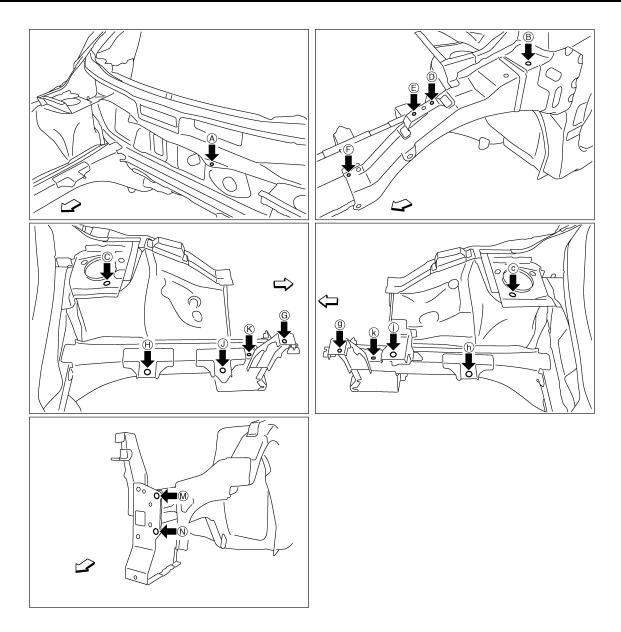
«The others»

							Unit: mm (in) M
Portion	Dimension	Portion	Dimension	Portion	Dimension	Portion	Dimension	
A - C	319 (12.56)	A - j	790 (31.10)	D - d	1447 (56.97)	H - j	843 (33.19)	Ν
A - c	738 (29.06)	A - K	659 (25.94)	E - e	1447 (56.97)	h - J	840 (33.07)	IN
A - D	565 (22.24)	A - k	914 (35.98)	F - G	358 (14.09)	H - k	923 (36.34)	
A - d	968 (38.11)	B - C	268 (10.55)*	f - g	363 (14.29)	h - K	937 (36.89)	0
A - E	588 (23.15)	В-с	1272 (50.08)*	F - g	1086 (42.76)	J - j	822 (32.36)	
A - e	982 (38.66)	B - f	1563 (61.54)*	f - G	1092 (42.99)	J - k	878 (34.57)	_
A - J	550 (21.65)	C - c	1037 (40.83)	H - h	782 (30.79)	j - K	893 (35.16)	Р

MEASUREMENT POINTS

Μ

< SERVICE DATA AND SPECIFICATIONS (SDS)



JSKIA2278ZZ

<⊐ Front

Unit: mm (in)

Portion	Description	Portion	Description
А	Upper dash hole center ϕ 7 (0.28)	G, g	Side radiator core support hole center $\phi 9$ (0.35)
B, b	Hood hinge installing hole center ϕ 11 (0.43)	H, h, J, j	Traction motor inverter member mounting hole center H, h, J: φ18 (0.71) j: 20×18 (0.79×0.71)
С, с	Front strut installing hole center 18×13 (0.71×0.51)	K, k	Front side member hole center 12×7 (0.47×0.28)
D, d, E, e	Front fender installing hole center ϕ 7 (0.28)	M, m, N, n	Front bumper stay installing hole center ϕ 15 (0.59)
F, f	Hoodledge reinforcement hole center ϕ 12 (0.47)		

< SERVICE DATA AND SPECIFICATIONS (SDS)

Underbody

INFOID:000000010121715

А

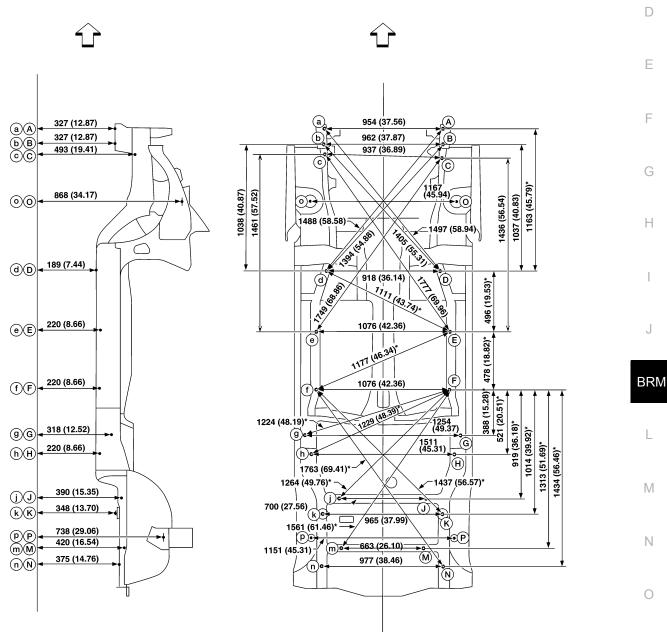
В

С

MEASUREMENT

Dimensions marked with "*" indicate symmetrically identical dimensions on both the right and left hand of the vehicle.

The following figure shows a bottom view and a side view of the vehicle.



AWKIA2314ZZ Unit: mm (in)

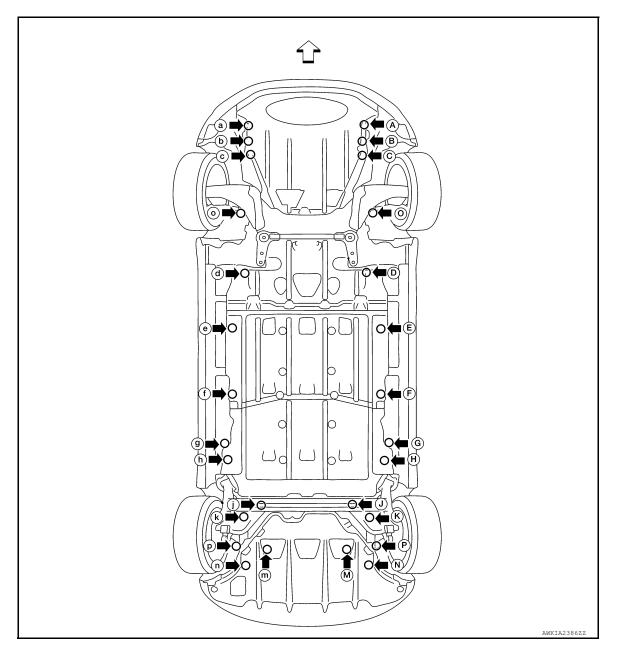
↓ Front

Revision: May 2014

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< SERVICE DATA AND SPECIFICATIONS (SDS)

MEASUREMENT POINTS



C Front

Unit: mm (in)

Position	Measurement		Description Positior	Position	I	Description			
1 0310011	Х	Y	Z	Description	FUSILION	Х	Y	Z	Beschption
A	470.0 (18.504)	-582.0 (-22.913)	327.3 (12.886)	Hole \u036411 (0.43)	G, g	±626.8 (±24.677)	1904.4 (74.976)	318.0 (12.520)	Hole \(0.63)
а	-484.0 (-19.055)	-582.0 (-22.913)	327.3 (12.886)	Hole	H, h	±575.4 (±22.653)	2060.0 (81.102)	220.0 (8.661)	Hole \(0.51)
В	472.4 (18.598)	-455.0 (-17.913)	327.3 (12.886)	Hole	J, j	±350.0 (±13.780)	2423.0 (95.394)	390.4 (15.370)	Hole \(0.63)
b	-489.7 (-19.279)	-455.0 (-17.913)	327.3 (12.886)	Hole	K, k	±482.3 (±18.988)	2544.2 (100.165)	348.3 (13.713)	Hole \(0.47)

< SERVICE DATA AND SPECIFICATIONS (SDS)

Position	1	Measuremer	nt	Description	Position	Measurement			Description
POSILION	Х	Y	Z	Description	POSILION	Х	Y	Z	Description
С	462.4 (18.205)	-346.0 (-13.622)	492.8 (19.402)	Hole	M, m	±331.3 (±13.043)	2821.5 (111.082)	419.8 (16.528)	M: Hole \u03c616 (0.63) m: Hole 18×16 (0.71×0.63)
С	-474.7 (-18.689)	-372.0 (-14.646)	492.8 (19.402)	Hole \(0.63)	N, n	±488.5 (±19.232)	2964.4 (116.708)	375.4 (14.779)	Hole 17×16 (0.67×0.63)
D, d	±458.8 (±18.063)	572.9 (22.555)	189.2 (7.449)	Hole 18×16 (0.71×0.63)	О, о	±583.6 (±22.976)	6.6 (0.260)	868.2 (34.181)	Hole
E, e	±538.0 (±21.181)	1062.0 (41.811)	220.0 (8.661)	Hole	P, p	±575.4 (±22.653)	2739.3 (107.846)	737.6 (29.039)	Hole
F, f	±538.0 (±21.181)	1540.0 (60.630)	220.0 (8.661)	Hole					

Passenger Compartment

MEASUREMENT

Dimensions marked with "*" indicate symmetrically identical dimensions on both the right and left hand of the vehicle.

G

F

INFOID:000000010121716

Н

J

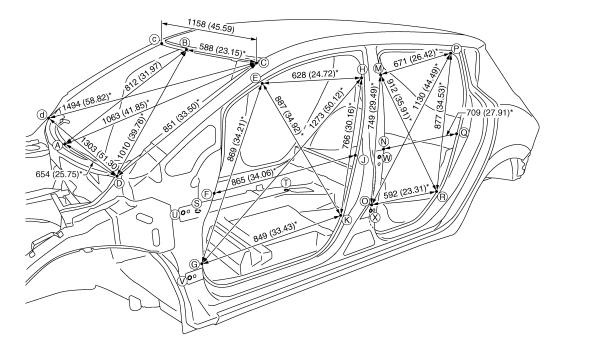
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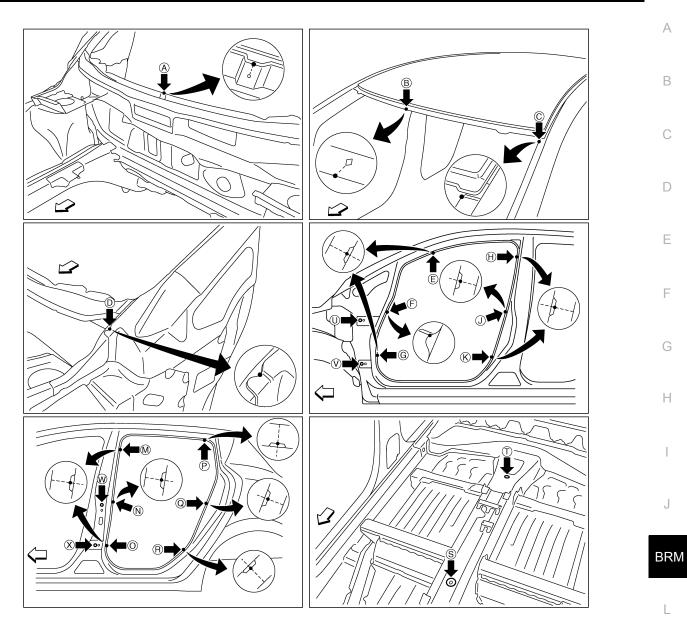
«The others»

< SERVICE DATA AND SPECIFICATIONS (SDS)

							Unit: mm
Portion	Dimension	Portion	Dimension	Portion	Dimension	Portion	Dimension
E - e	1227 (48.31)	K - k	1441 (56.73)	Q - q	1392 (54.80)	T - Q	1169 (46.02)*
E - g	1582 (62.28)*	M - m	1267 (49.88)	R - r	1441 (56.73)	T - R	983 (38.70)*
E - h	1397 (55.00)*	M - o	1545 (60.83)*	S - E	1068 (42.05)*	U - u	1539 (60.59)
E - k	1599 (62.95)*	M - p	1385 (54.53)*	S - F	855 (33.66)*	U - W	1162 (45.75)*
F - f	1420 (55.91)	M - r	1630 (64.17)*	S - G	772 (30.39)*	U - X	1133 (44.61)*
F - j	1663 (65.47)*	N - n	1420 (55.91)	S - H	1297 (51.06)*	V - v	1567 (61.69)
G - g	1425 (56.10)	N - q	1575 (62.01)*	S - J	1068 (42.05)*	V - W	1215 (47.83)*
G - h	1852 (72.91)*	O - 0	1441 (56.73)	S - K	925 (36.42)*	V - X	1105 (43.50)*
G - k	1666 (65.59)*	O - p	1717 (67.60)*	T - M	1070 (42.13)*	W - w	1559 (61.38)
H - h	1270 (50.00)	0 - r	1558 (61.34)*	T - N	847 (33.35)*	X - x	1590 (62.60)
H - k	1555 (61.22)*	P - p	1160 (45.67)	T - O	732 (28.82)*		
J - j	1420 (55.91)	P-r	1562 (61.50)*	T - P	1378 (54.25)*		

MEASUREMENT POINTS

< SERVICE DATA AND SPECIFICATIONS (SDS)



JSKIA2282ZZ

Μ

			Unit: mm (in)	
Portion	Description	Portion	Description	Ν
А	Cowl top flange end of center positioning mark	P, p, Q, q, R, r	Rear fender indent	
В	Roof flange end of center positioning mark	S	Trans control reinforcement hole center of center positioning mark ϕ 31 (1.22)	0
C, c, F, f	Outer side body joggle	Т	Center front floor hole center of center positioning mark ϕ 11 (0.43)	
D, d, E, e, G, g	Outer side body indent	U, u, V, v, W, w, X, x	Door hinge installing hole center U, u, V, v, X, x: ≬12 (0.47) W, w: ∲9 (0.35)	Ρ
H, h, J, j, K, k, M, m, N, n, O, o	Center pillar indent			

Revision: May 2014

<-> Front

BRM-69

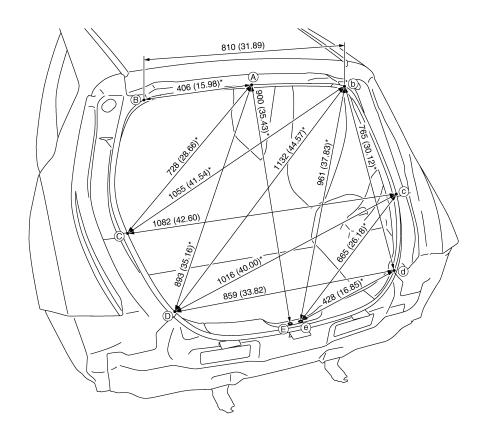
< SERVICE DATA AND SPECIFICATIONS (SDS)

Rear Body

INFOID:000000010121717

MEASUREMENT

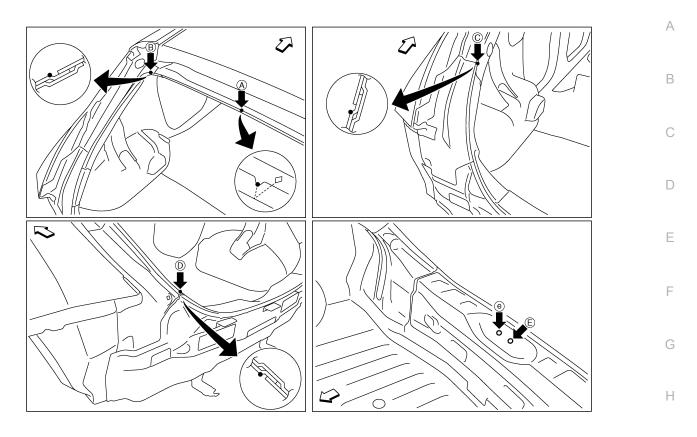
Dimensions marked with "*" indicate symmetrically identical dimensions on both the right and left hand of the vehicle.



JSKIA2283GB Unit: mm (in)

MEASUREMENT POINTS

< SERVICE DATA AND SPECIFICATIONS (SDS)



JSKIA2284ZZ

J

Unit: mm (in)

Portion	Description	Portion	Description	
A	Roof indent of center positioning mark	C, c, D, d	Rear combination lamp base joggle	BRM
B, b	Rear fender extension joggle	E, e	Back door striker installing hole center $\phi 15~(0.59)$	

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C Front