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FOR USA AND CANADA

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SECTION BRM

BODY REPAIR

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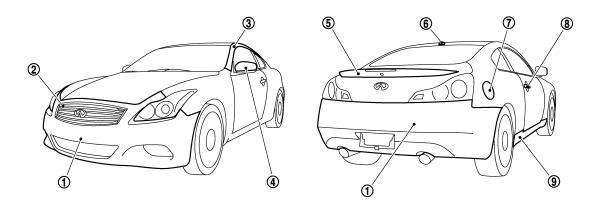
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VEHICLE INFORMATION BODY EXTERIOR PAINT COLOR

Body Exterior Paint Color

INFOID:000000007474018



JSKIA0361GB

			Color code	BA54	BGAC	BKH3	BK23	BKAD	BK52	BQAA	BRAW
0		Description	Red	Black	Black	Silver	Gray	Dark Gray	White	Blue	
	Component		Paint type Note	CS	Р	2S	М	М	PM	3P	PM
		Hard clear coat	×	×	×	_	_	×	_	×	
1	Bumper fascia	ı	Body color	BA54	BGAC	BKH3	BK23	BKAD	BK52	BQAA	BRAW
2	Front grille		Chromium plate	Cr	Cr	Cr	Cr	Cr	Cr	Cr	Cr
3	Front pillar fini	sher	Body color	BA54	BGAC	BKH3	BK23	BKAD	BK52	BQAA	BRAW
4	Door outside mirror	Cover	Body color	BA54	BGAC	BKH3	BK23	BKAD	BK52	BQAA	BRAW
5	Trunk lid finish	ner	Body color	BA54	BGAC	BKH3	BK23	BKAD	BK52	BQAA	BRAW
6	Satellite radio	antenna	Body color	BA54	BGAC	BKH3	BK23	BKAD	BK52	BQAA	BRAW
7	Fuel filler lid		Body color	BA54	BGAC	BKH3	BK23	BKAD	BK52	BQAA	BRAW
8	Door outside h	nandle	Body color	BA54	BGAC	BKH3	BK23	BKAD	BK52	BQAA	BRAW
9	Center mudgu	lard	Body color	BA54	BGAC	BKH3	BK23	BKAD	BK52	BQAA	BRAW

NOTE:

- 2S: Solid + Clear
- · CS: Color clear solid
- M: Metallic
- P: 2-Coat pearl
- 3P: 3-Coat pearl
- FPM: Iron oxide pearl
- RPM: Multi flex color
- TPM: Titanium pearl metallic
- TM: Micro titanium metallic
- PM: Pearl metallic

< PRECAUTION >

PRECAUTION REPAIRING HIGH STRENGTH STEEL

High Strength Steel (HSS)

INFOID:000000007474019

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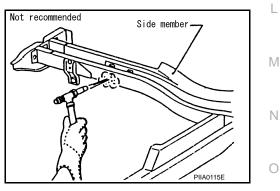
High strength steel is used for body panels in order to reduce vehicle weight. Accordingly, precautions in repairing automotive bodies made of high strength steel are described below:

Read the following precautions when repairing HSS:

- 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.

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



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REPAIRING HIGH STRENGTH STEEL

< PRECAUTION >

heat.

strength.

steel panel.

• 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.

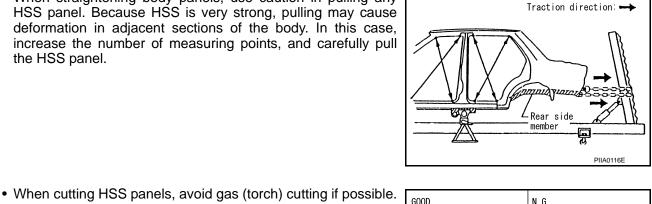
durability and facilitate the operation.

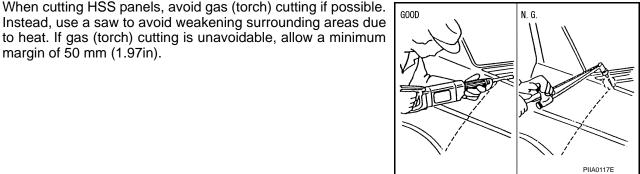
margin of 50 mm (1.97in).

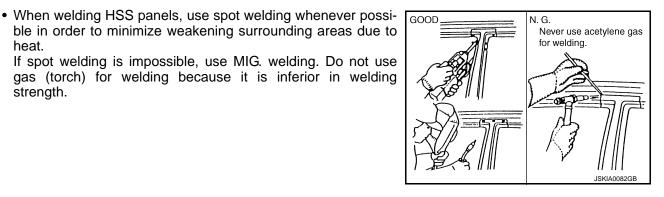
Revision: 2013 February

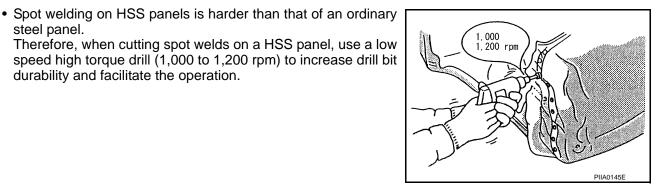
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[FOR USA AND CANADA]





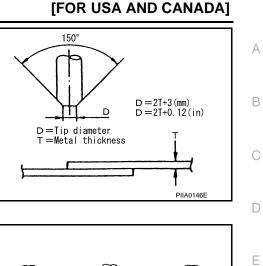




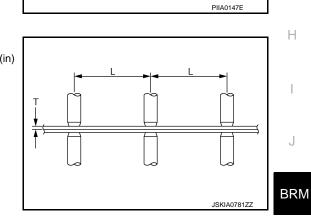
REPAIRING HIGH STRENGTH STEEL

< PRECAUTION >

- 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.



Incorrect

7

Correct

Incorrect

• Follow the specifications for the proper welding pitch.

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

Foam Repair

INFOID:000000007474020

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.

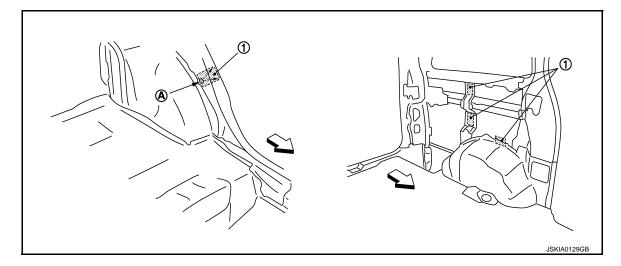
<Urethane foam for foaming agent>

3M[™] Automix[™] Flexible Foam 08463 or equivalent

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

C: Vehicle front

- 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.

< PREPARATION >

[FOR USA AND CANADA]

- 1. Urethane foam
- A. Fill while avoiding flange area
- <⊐: Vehicle front

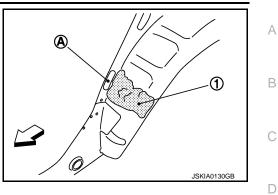
NOTE:

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.



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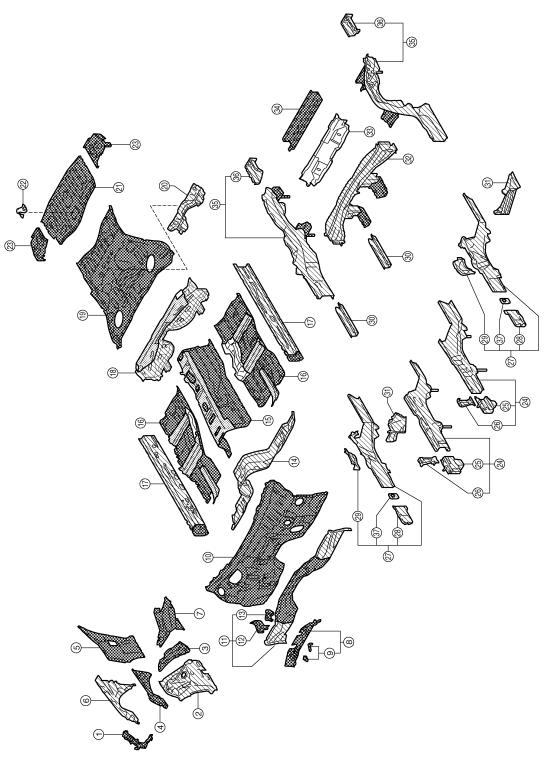
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BODY COMPONENT PARTS

Underbody Component Parts

INFOID:000000007474021



JSKIA0878ZZ

- 1. Radiator core support assembly (RH 2. Front strut housing (RH & LH) 3. & LH)
- Upper front hoodledge (RH & LH) 5. 4.
- Upper rear hoodledge (RH & LH)
- Lower rear hoodledge (RH & LH)
- 6. Hoodledge reinforcement (RH & LH)

BODY COMPONENT PARTS

< PREPARATION >

[FOR USA AND CANADA]

pper dash ower battery support bracket		Upper front cowl top assembly Lower dash crossmember assembly Lower dash		Cowl top bracket Lower outer battery support bracket
ower battery support bracket				
	14.	l ower dash		
react floor (DLL 9 LLL)		LOWER UDSIT	15.	Center front floor
ront floor (RH & LH)	17.	Inner sill (RH & LH)	18.	Rear seat crossmember reinforce- ment assembly
ear floor front	20.	Rear floor seat belt anchor reinforce- ment	21.	Rear floor rear
pare tire clamp bracket	23.	Rear floor side (RH & LH)	24.	Front side member assembly (RH & LH)
ront side member front extension RH & LH)	26.	Front side member connector as- sembly (RH & LH)	27.	Front side member closing plate as- sembly (RH & LH)
ront side member front closing late (RH & LH)	29.	Front side member center closing plate (RH & LH)	30.	Front side member rear extension (RH & LH)
ront side member outrigger assem- ly (RH & LH)	32.	Rear seat crossmember	33.	2nd rear crossmember
ear crossmember center assembly	35.	Rear side member assembly (RH & LH)	36.	Rear side member extension (RH & LH)
ront side rear closing reinforcement RH & LH)				
soth sided anti-corrosive precoated s	steel	sections		
ligh strength steel (HSS) sections				
oth sided anti-corrosive steel and H	SS s	ections		
r R R R R R	pare tire clamp bracket cont side member front extension CH & LH) cont side member front closing ate (RH & LH) cont side member outrigger assem- y (RH & LH) ear crossmember center assembly cont side rear closing reinforcement CH & LH) oth sided anti-corrosive precoated s ligh strength steel (HSS) sections	bare tire clamp bracket23.cont side member front extension CH & LH)26.cont side member front closing ate (RH & LH)29.cont side member outrigger assem- y (RH & LH)32.cont side rear closing reinforcement CH & LH)35.cont side rear closing reinforcement CH & LH)35.cont side anti-corrosive precoated steel ligh strength steel (HSS) sections	mentDare tire clamp bracket23.Rear floor side (RH & LH)Cont side member front extension RH & LH)26.Front side member connector as- sembly (RH & LH)Cont side member front closing ate (RH & LH)29.Front side member center closing plate (RH & LH)Cont side member outrigger assem- y (RH & LH)32.Rear seat crossmemberCont side rear closing reinforcement RH & LH)35.Rear side member assembly (RH & LH)Cont side rear closing reinforcement RH & LH)StenesStenesCont side anti-corrosive precoated steel sectionsStenes	mentpare tire clamp bracket23. Rear floor side (RH & LH)24.cont side member front extension CH & LH)26. Front side member connector as- sembly (RH & LH)27.cont side member front closing ate (RH & LH)29. Front side member center closing plate (RH & LH)30.cont side member outrigger assem- y (RH & LH)22. Rear seat crossmember33.y (RH & LH)35. Rear side member assembly (RH & 36. LH)36.cont side rear closing reinforcement cent side anti-corrosive precoated steel sections36.

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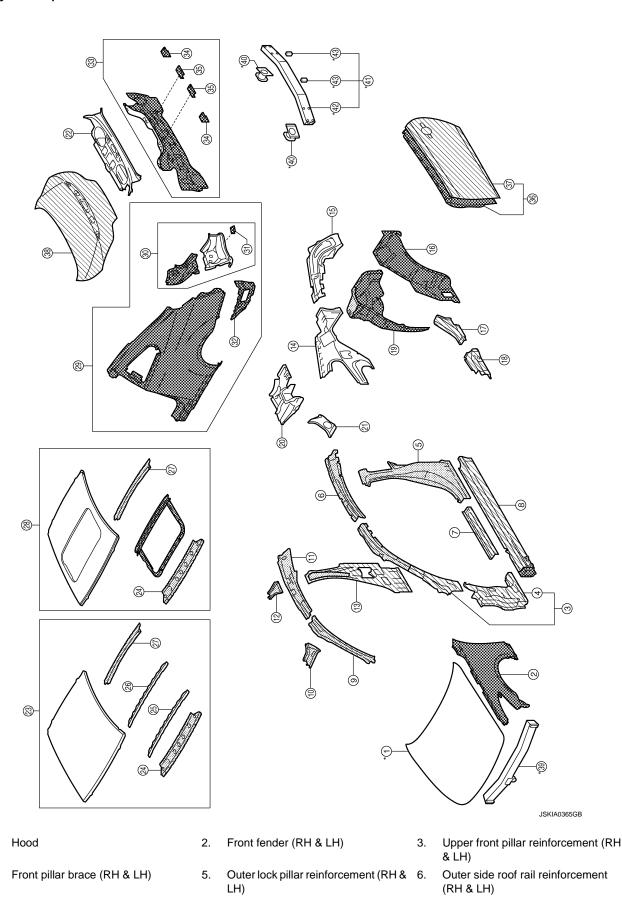
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< PREPARATION >

Body Component Parts

INFOID:000000007474022

[FOR USA AND CANADA]



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BODY COMPONENT PARTS

< PREPARATION >

[FOR USA AND CANADA]

7.	Outer step sill (RH & LH)	8.	Outer sill reinforcement (RH & LH)	9.	Upper inner front pillar assembly (RH & LH)
10.	Front roof rail brace (RH & LH)	11.	Inner side roof rail (RH & LH)	12.	Rear roof rail brace (RH & LH)
13.	Inner center pillar (RH & LH)	14.	Inner rear pillar (RH & LH)	15.	Rear pillar reinforcement (RH & LH)
16.	Outer rear wheelhouse (RH & LH)	17.	Upper outer rear wheelhouse extension (RH & LH)	18.	Lower outer rear wheelhouse exten- sion (RH & LH)
19.	Inner rear wheelhouse (RH & LH)	20.	Side parcel shelf (RH & LH)	21.	Seat back support (RH & LH)
22.	Parcel shelf with rear waist	23.	Roof	24.	Front roof rail
25.	Roof bow No.1	26.	Roof bow No.2	27.	Rear roof rail
28.	Roof assembly	29.	Rear fender assembly (RH & LH)	30.	Tail pillar assembly (RH & LH)
31.	Rear bumper center bracket (RH & LH)	32.	Rear fender extension (RH & LH)	33.	Rear panel assembly
34.	Rear bumper fascia center bracket	35.	Rear bumper fascia bracket	36.	Door assembly (RH & LH)
37.	Outer door panel (RH & LH)	38.	Trunk lid	39.	Inner center front bumper reinforce- ment
40.	Rear bumper stay (RH & LH)	41.	Inner center rear bumper reinforce- ment assembly	42.	Center rear bumper reinforcement
43.	Rear bumper overrider assembly				
	Both sided anti-corrosive precoated	steel	sections		
	High strength steel (HSS) sections				
	Both sided anti-corrosive steel and luminum portion	HSS s	sections		
OTE:					
or the	parte without a number described in t	ho fia	ure it is supplied only with the second	du no	urt that the part is included with

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

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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 is 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.

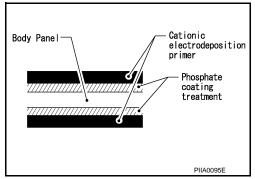
NISSAN genuine parts are fabricated from galvannealed steel. Therefore, it is recommended that NISSAN genuine parts or an equivalent be used for panel replacement to maintain the anti-corrosive performance built into the vehicle at the factory.

Phosphate Coating Treatment and Cationic Electrodeposition Primer

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

CAUTION:

Confine paint removal during welding operation to an absolute minimum.



Zn rich

Zn rich

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

Anti-corrosive Wax

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

DOOR

Zn-Fe

Steel sheet(Fe)

Zn-Fe

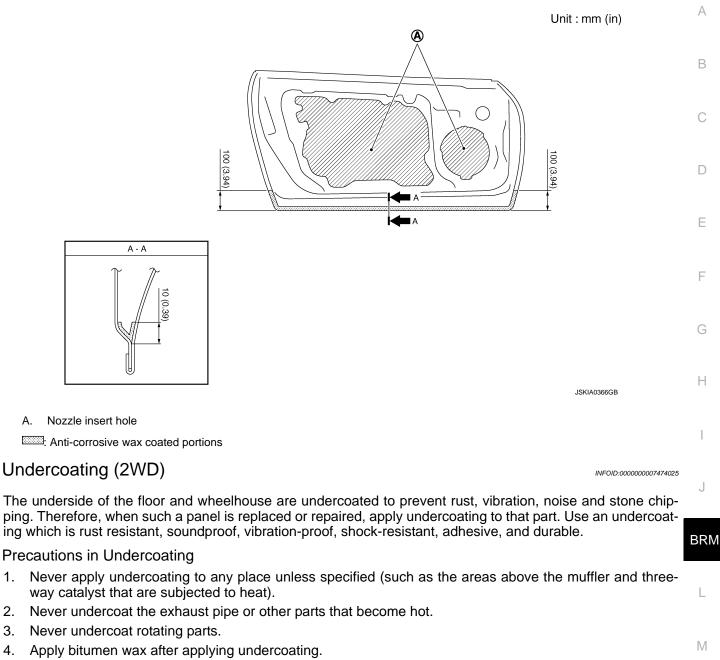
Both sided precoated

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< REMOVAL AND INSTALLATION >

[FOR USA AND CANADA]



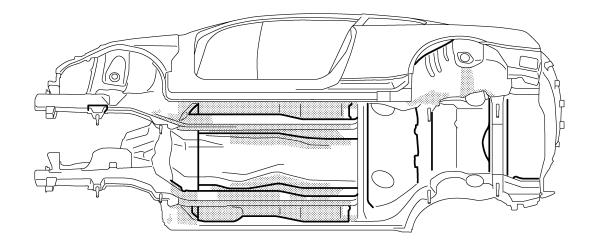
5. After putting seal on the vehicle, put undercoating on it.

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: Undercoated areas

Sealed portions

Undercoating (AWD)

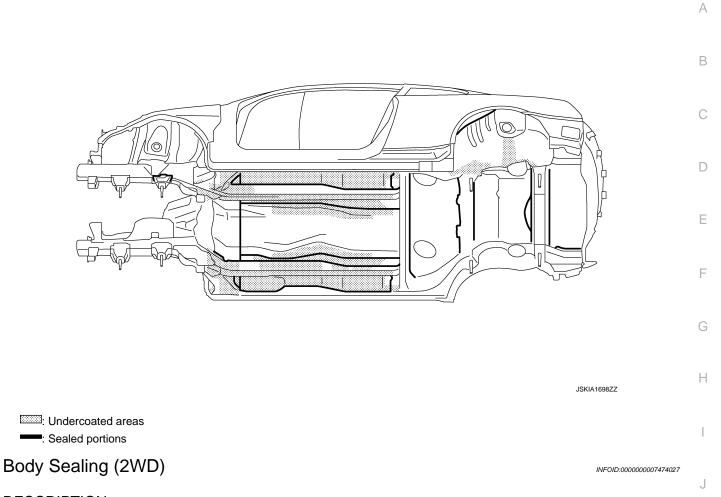
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The underside of the floor and wheelhouse are undercoated to prevent rust, vibration, noise and stone chipping. Therefore, when such a panel is replaced or repaired, apply undercoating to that part. Use an undercoating which is rust resistant, soundproof,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

< REMOVAL AND INSTALLATION >

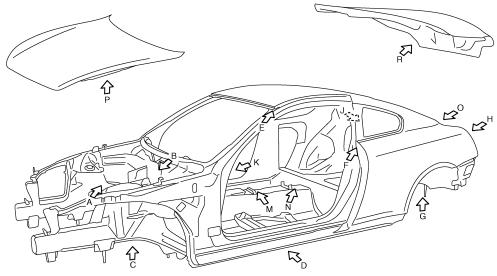


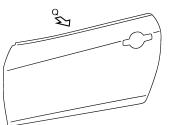
DESCRIPTION

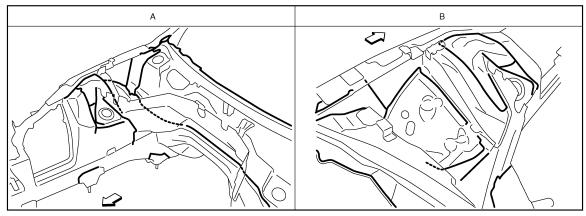
The following figure shows the areas that are sealed at the factory. Sealant that is applied to these areas should be smooth and free from cuts or gaps. Care should be taken not to apply an excess amount of sealant and not to allow other unaffected parts to come into contact with the sealant.

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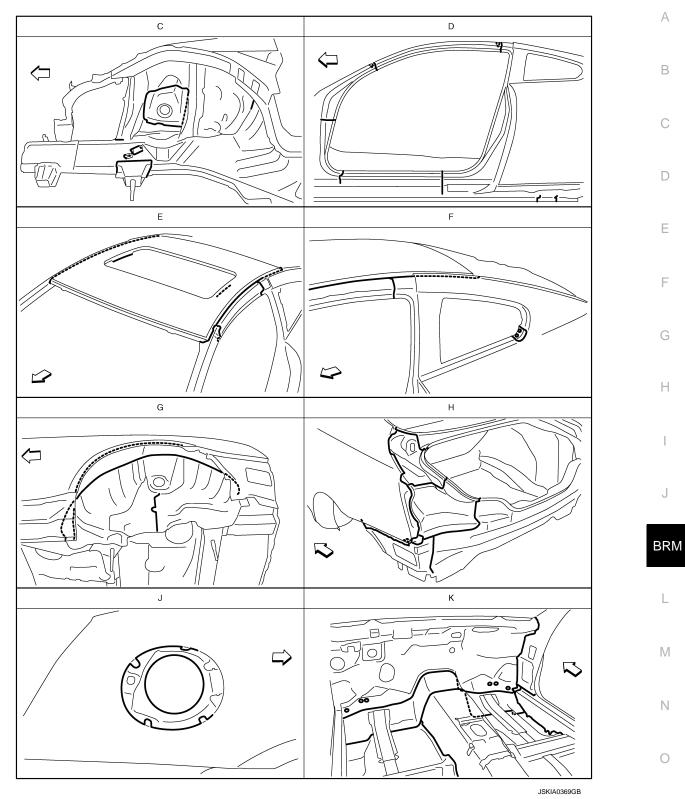


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C: Vehicle front Sealed portions

< REMOVAL AND INSTALLATION >

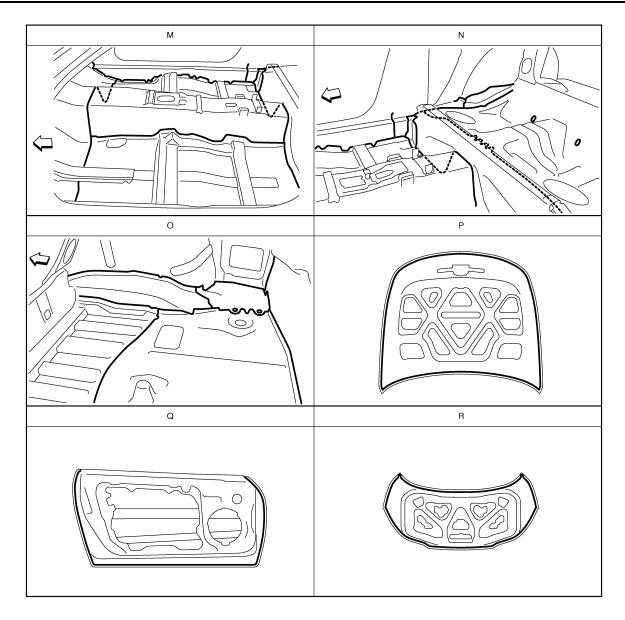
[FOR USA AND CANADA]



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Vehicle front
Sealed portions

< REMOVAL AND INSTALLATION >



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: Vehicle front

Body Sealing (AWD)

INFOID:000000007474028

DESCRIPTION

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.

< REMOVAL AND INSTALLATION >

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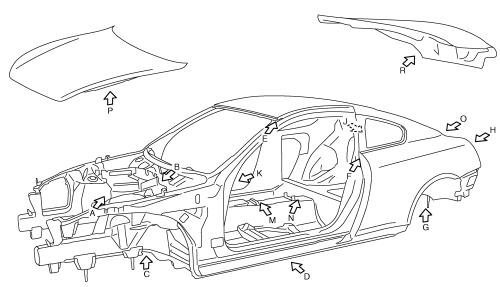
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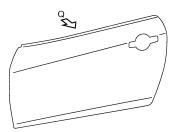
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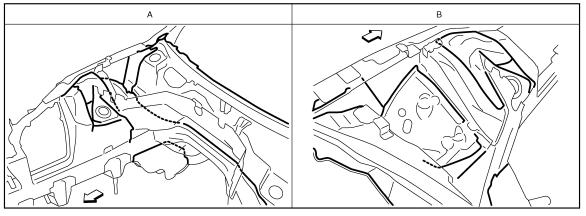
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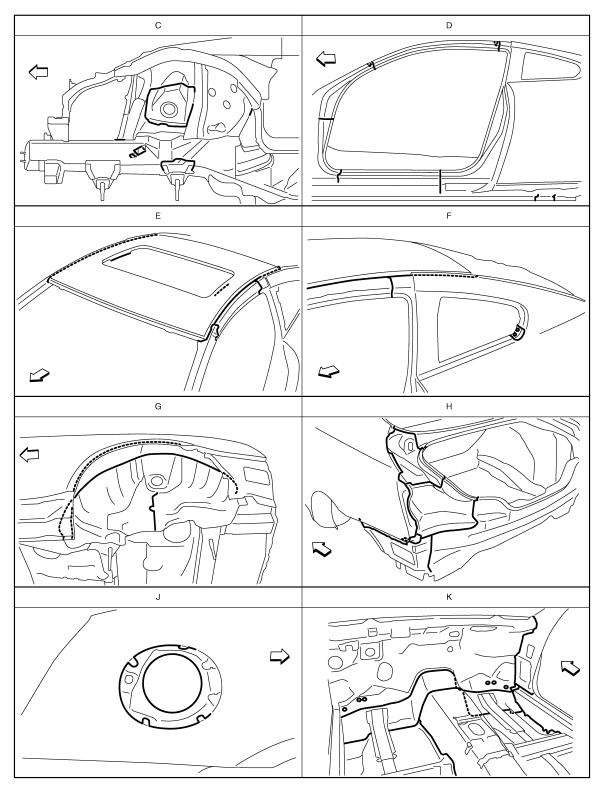
: Vehicle front

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< REMOVAL AND INSTALLATION >

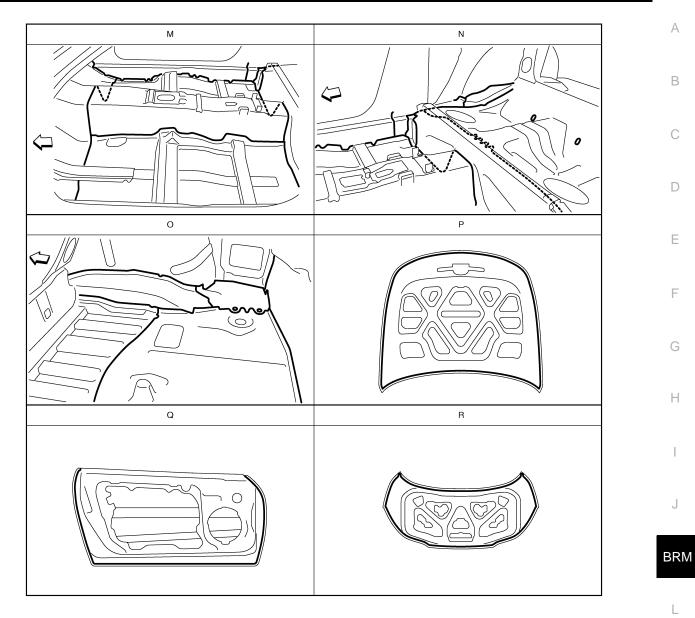


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Vehicle front
Sealed portions

< REMOVAL AND INSTALLATION >

[FOR USA AND CANADA]



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Vehicle front
Sealed portions

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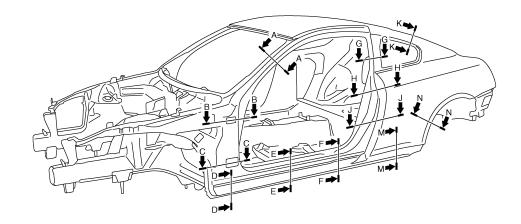
< REMOVAL AND INSTALLATION >

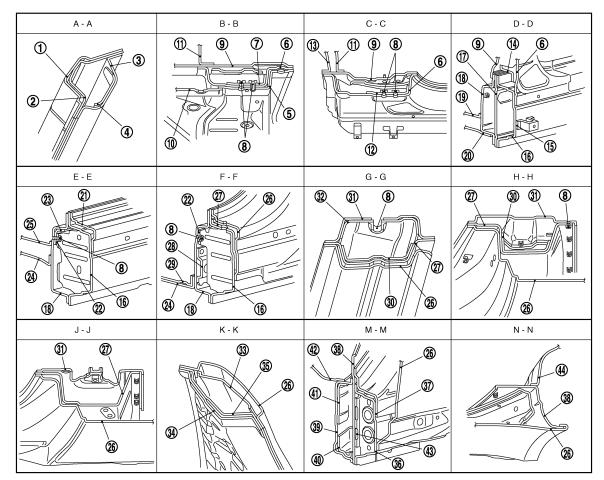
BODY CONSTRUCTION

Body Construction

INFOID:000000007474029

[FOR USA AND CANADA]





- 1. Upper outer front pillar
- 4. Inner front pillar reinforcement
- 7. Upper hinge plate
- 2. Outer front pillar reinforcement
- 5. Lower outer front pillar
- 8. Weld nut

- JSKIA0371GB
- 3. Upper inner front pillar
- 6. Front pillar hinge brace
- 9. Upper rear hoodledge

BODY CONSTRUCTION

< REMOVAL AND INSTALLATION >

[FOR USA AND CANADA]

INFOID:000000007474030

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10.	Hoodledge reinforcement	11.	Upper dash	12.	Lower hinge plate	
13.	Lower dash crossmember	14.	Lower front pillar gusset	15.	Front fender bracket	А
16.	Outer sill reinforcement	17.	Lower front pillar reinforcement	18.	Inner sill	
19.	Lower dash	20.	Front side member outrigger	21.	Outer step sill	_
22.	Outer sill brace	23.	Inner sill reinforcement	24.	Front floor	В
25.	2nd crossmember	26.	Rear fender	27.	Lock pillar reinforcement	
28.	Center sill reinforcement	29.	3rd crossmember	30.	Upper inner lock pillar reinforcement	
31.	Inner lock pillar	32.	Lock pillar seat belt anchor	33.	Rear pillar reinforcement	С
34.	Inner side roof rail	35.	Inner rear pillar	36.	Outer rear sill reinforcement	
37.	Outer rear wheelhouse extension	38.	Outer rear wheelhouse	39.	Rear side member front	
40.	Rear tie down hook bracket	41.	Rear side member front reinforce- ment	42.	Rear floor front	D
	Outer rear wheelhouse brace	44.	Inner rear wheelhouse			Е

Rear Fender Hemming Process

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

CAUTION:

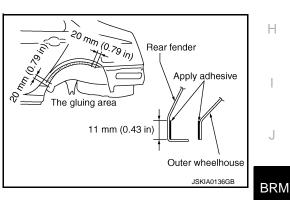
Ensure that the area that is to be glued around the outer wheelhouse is undamaged or defaced.

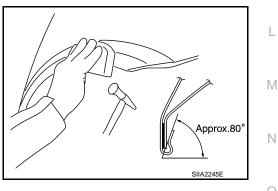
PROCEDURE OF THE HEMMING PROCESS

- 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.



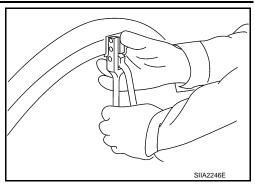


BODY CONSTRUCTION

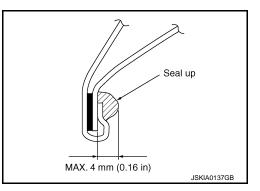
< REMOVAL AND INSTALLATION >

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

[FOR USA AND CANADA]



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



< REMOVAL AND INSTALLATION >

REPLACEMENT OPERATIONS

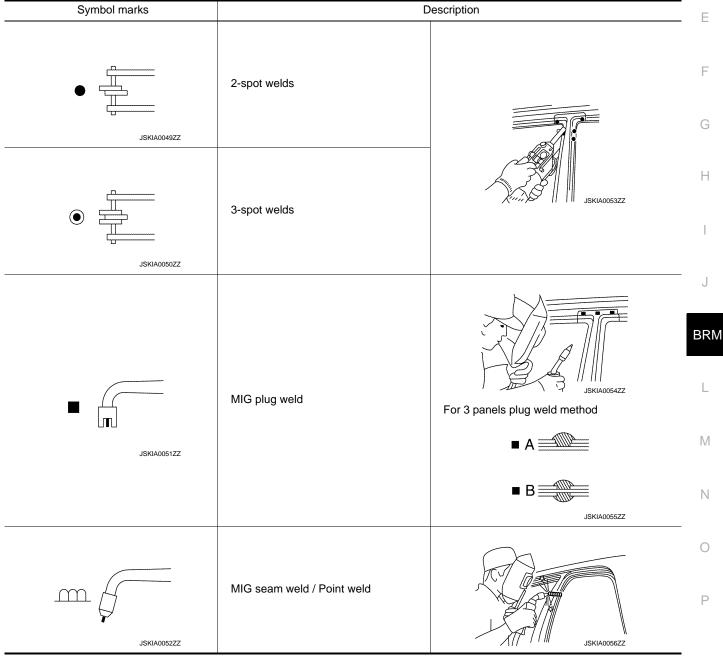
Description

INFOID:000000007474031

А

- 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.



< REMOVAL AND INSTALLATION >

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

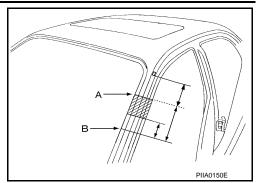
[FOR USA AND CANADA]

. 60 mm

(2.36 in)

Inner front pillar

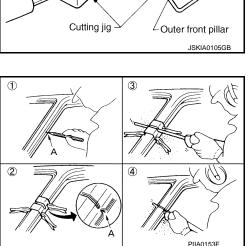
Outer front pillar

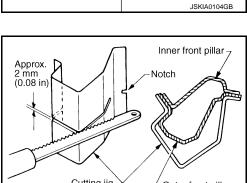


• Determine cutting position and record distance from the locating indent. Use this distance when cutting the service part. Cut outer front pillar over 60 mm (2.36 in) above the inner front pillar cut position.

• 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.
 A: Cut position of outer pillar
 B: Cut position of inner pillar
- 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 at position B in same manner.





Locating

indent

в

Record – distance

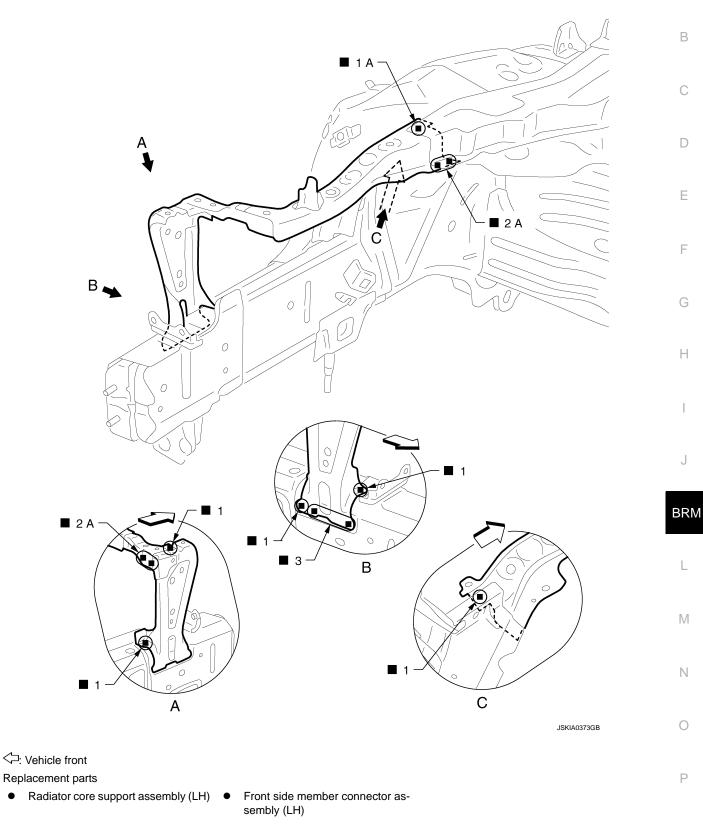
< REMOVAL AND INSTALLATION >

[FOR USA AND CANADA]

Radiator Core Support

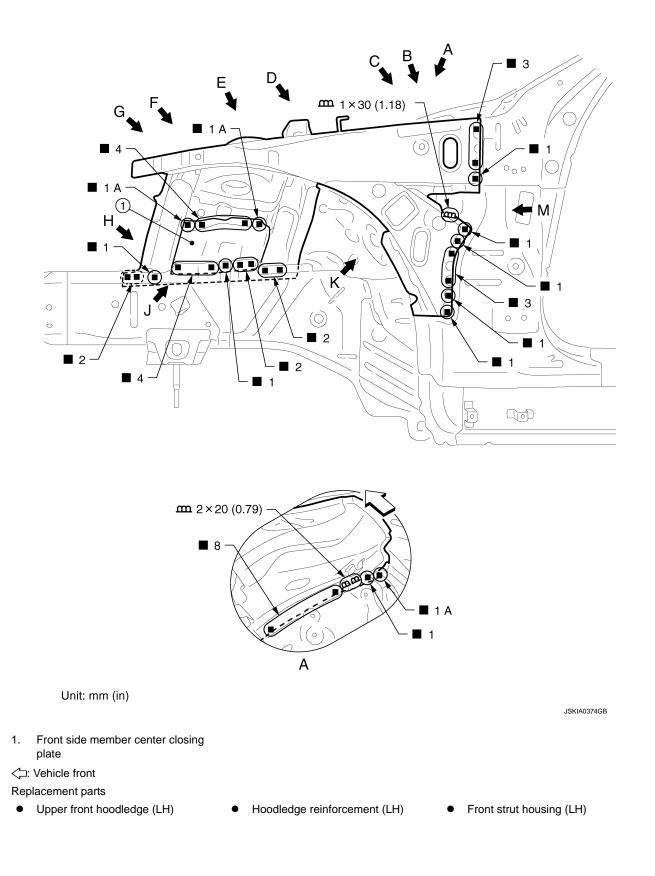
INFOID:000000007474032

А



Hoodledge

Work after radiator core support is removed. Remove the front side member center closing plate (reusable). INFOID:000000007474033



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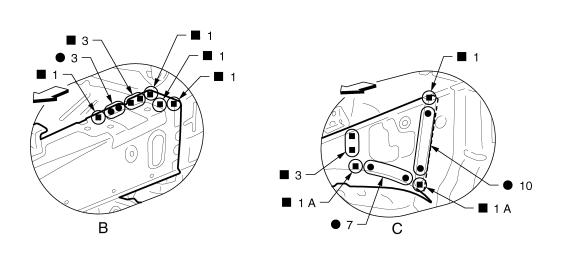
L

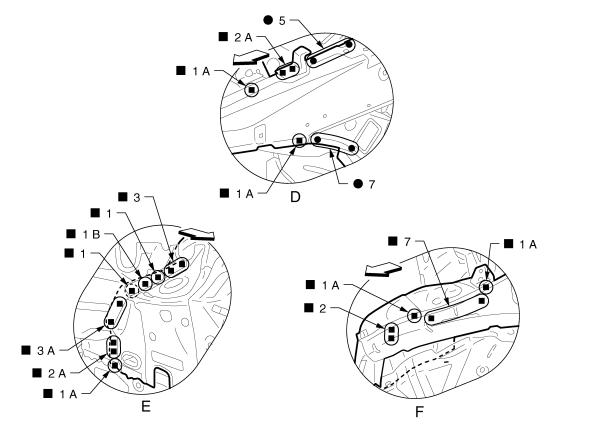
Μ

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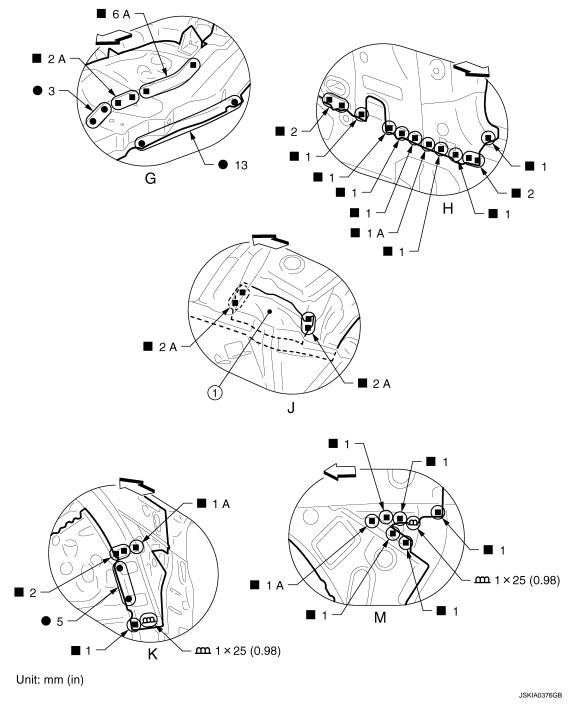




JSKIA0375GB

<⊐: Vehicle front

View C and F: Before installing hoodledge reinforcement



1. Front side member center closing plate

<⊐: Vehicle front

Front Side Member (2WD)

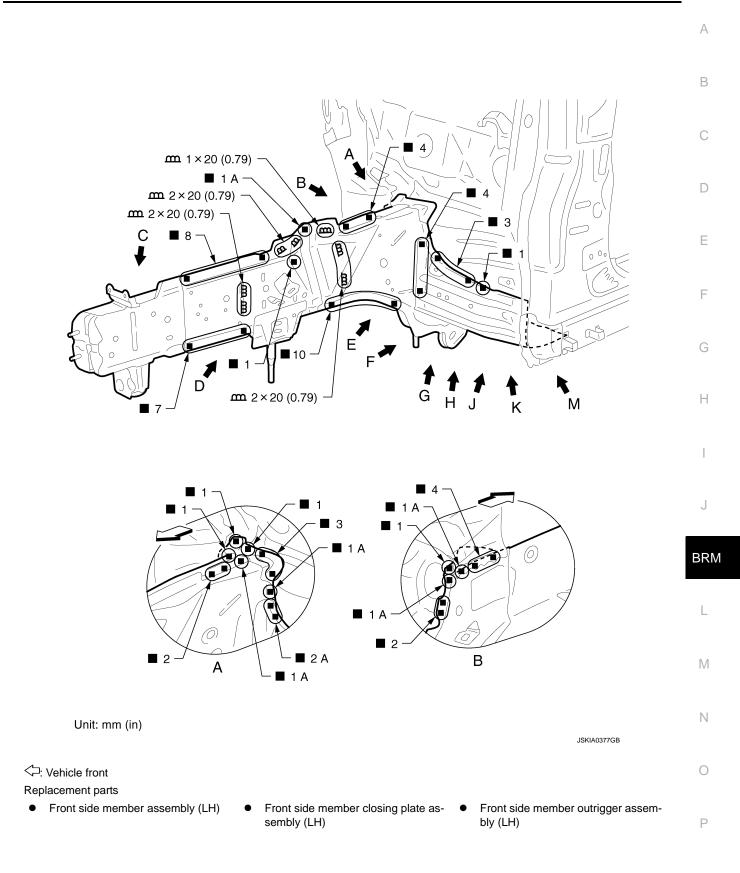
Work after radiator core support and hoodledge are removed.

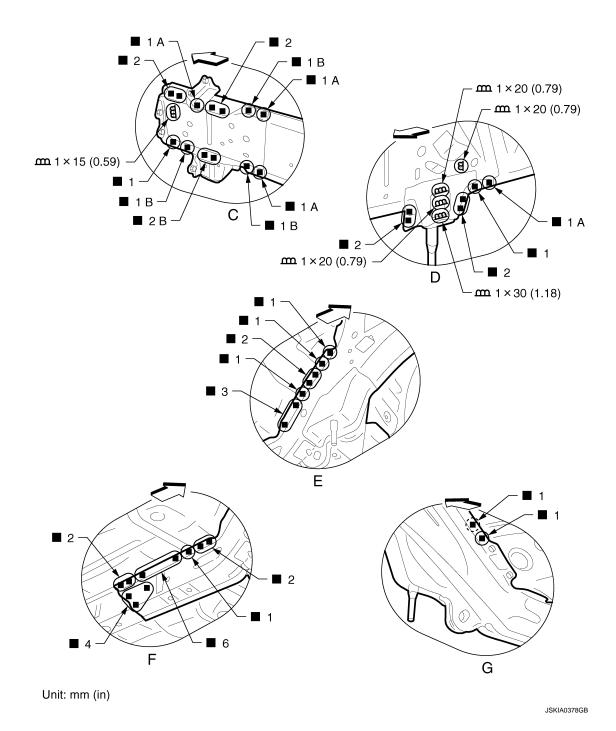
Assemble the hoodledge and check the fitting according to Body Alignment before replacing the front side member center closing plate.

INFOID:000000007474034

< REMOVAL AND INSTALLATION >

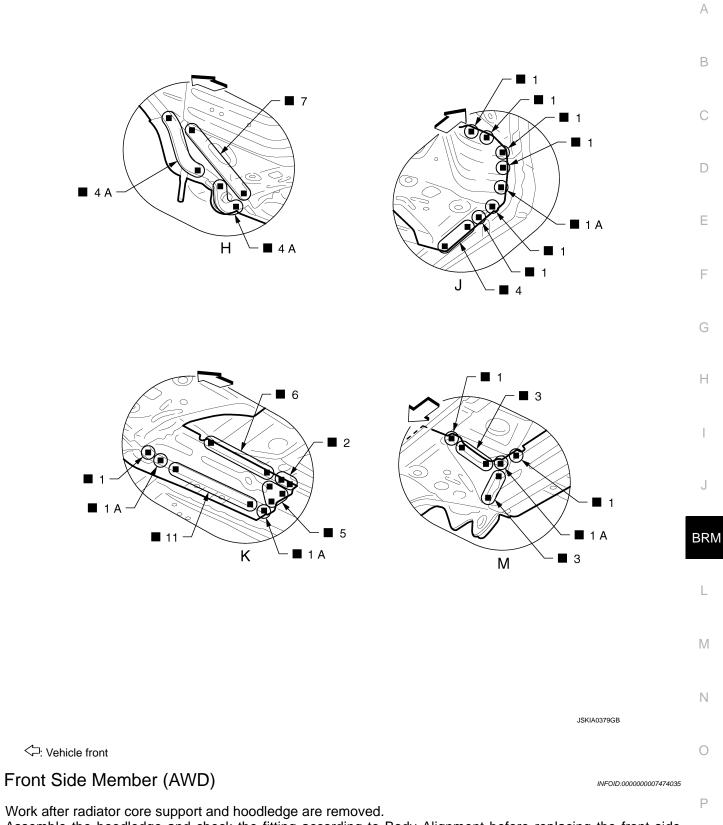
[FOR USA AND CANADA]



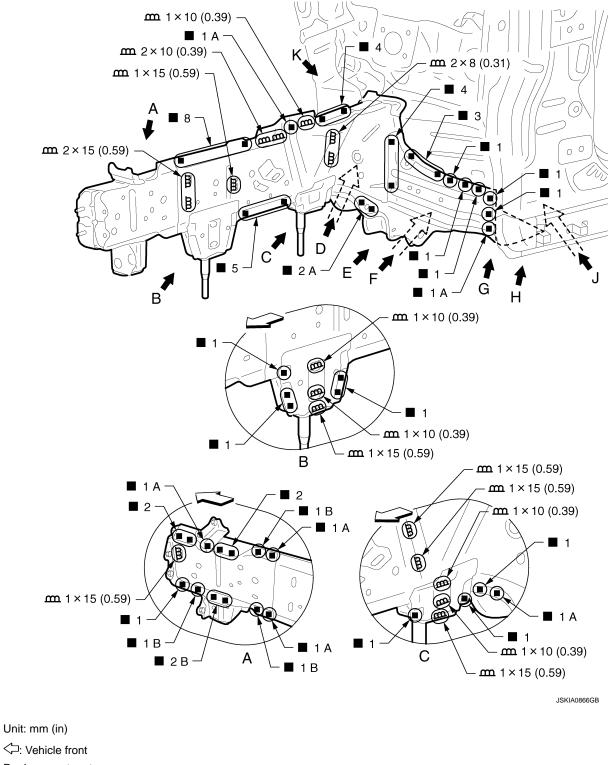


C: Vehicle front

View G: Before installing front side member outrigger assembly

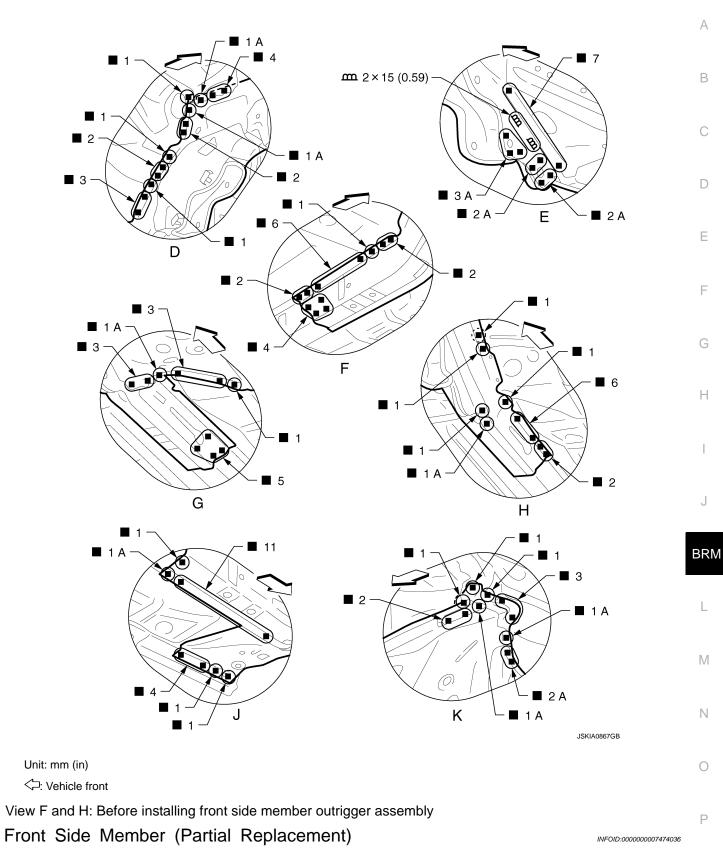


Assemble the hoodledge and check the fitting according to Body Alignment before replacing the front side member center closing plate.



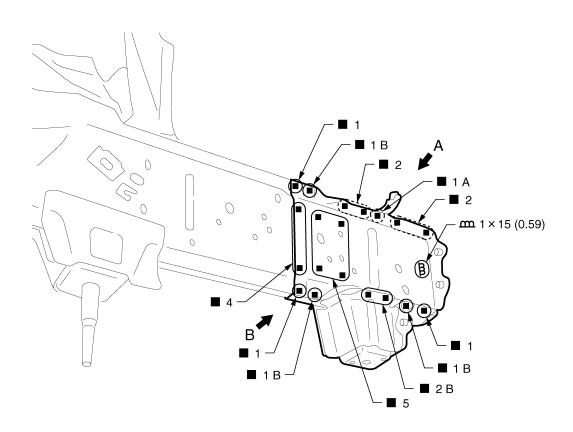
Replacement parts

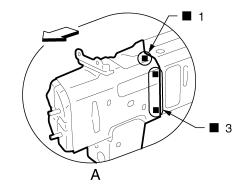
- Front side member assembly (LH)
- sembly (LH)
- Front side member closing plate as- Front side member outrigger assembly (LH)

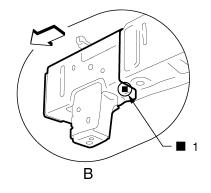


Work after radiator core support is removed.

< REMOVAL AND INSTALLATION >







Unit: mm (in) ☆: Vehicle front Replacement parts • Front side member front extension front side member front closing (RH) plate (RH) Front Pillar

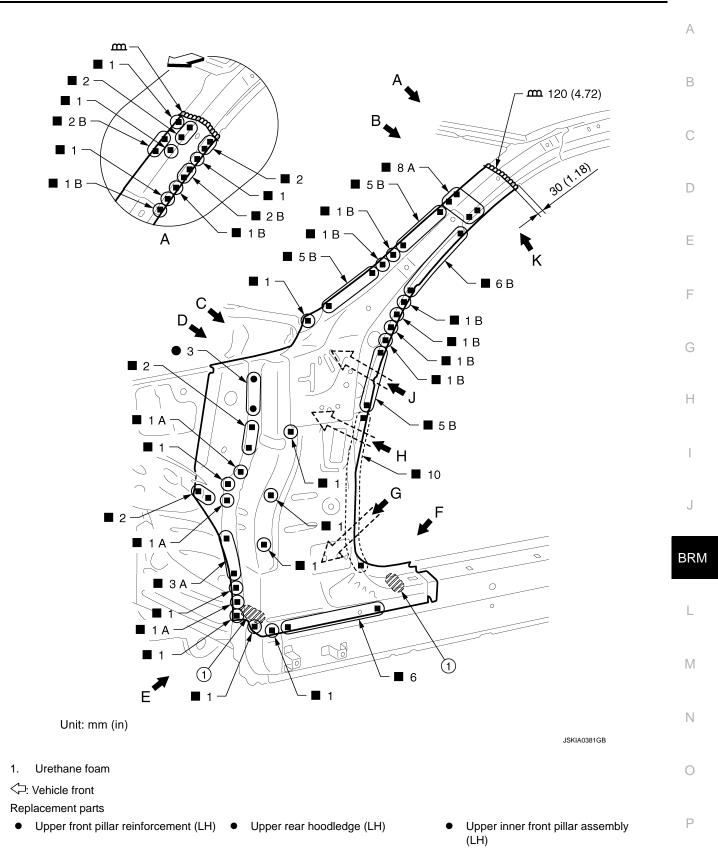
Work after hoodledge reinforcement and outer step sill are removed.

Revision: 2013 February

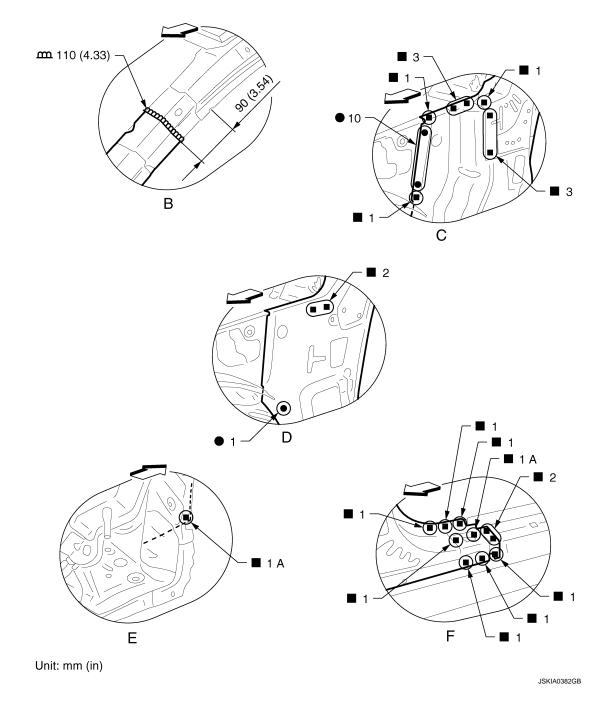
BRM-36

2012 G Coupe

< REMOVAL AND INSTALLATION >

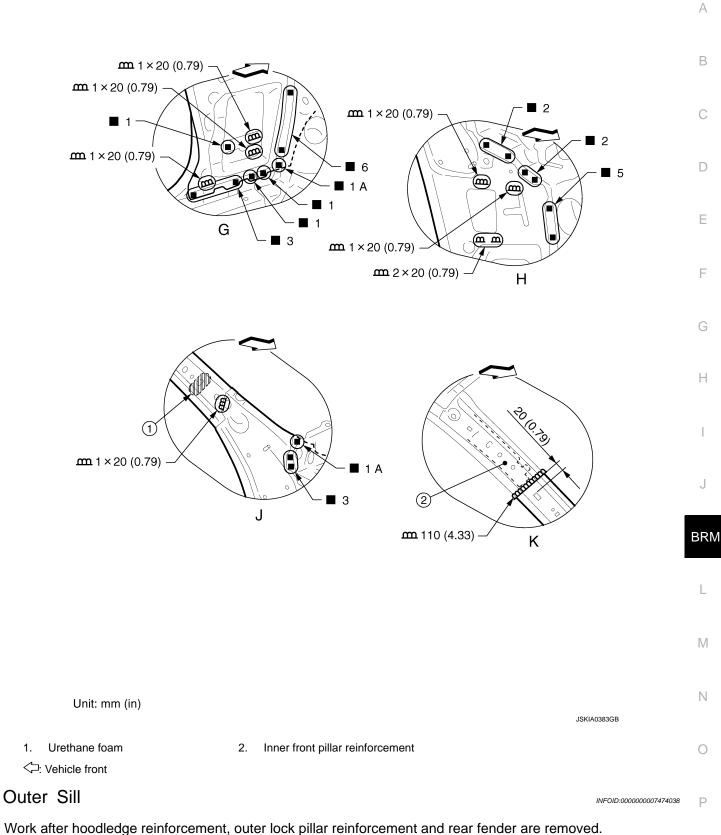


< REMOVAL AND INSTALLATION >

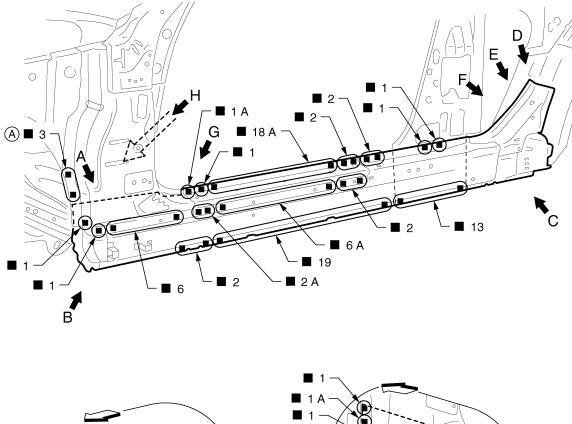


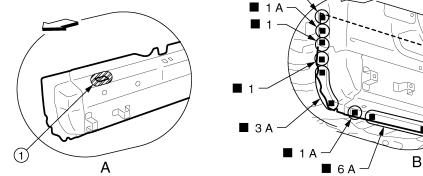
C: Vehicle front

View D: Before installing upper front pillar reinforcement



Remove the welding point (A) for easier replacement.





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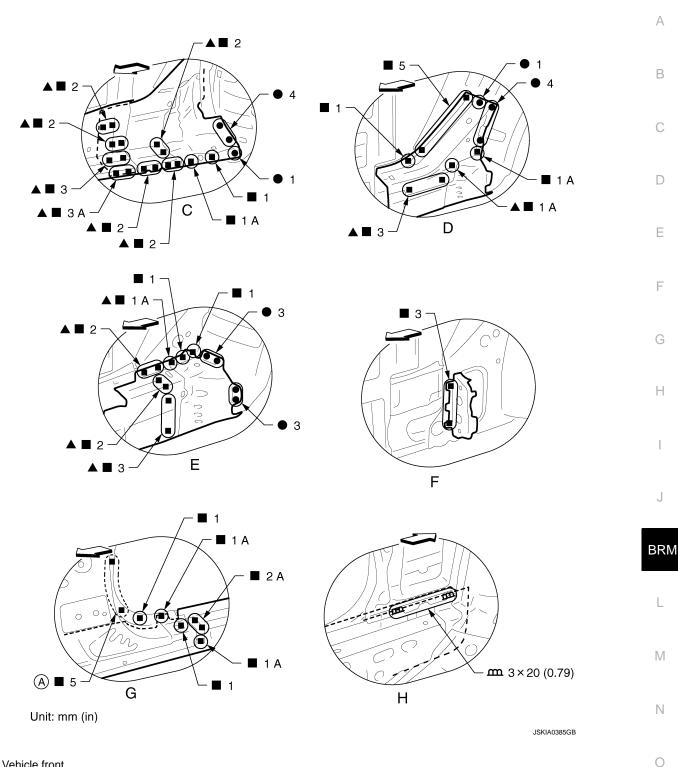
1. Urethane foam (Cover the hole with urethane foam completely.)

C: Vehicle front

- Replacement parts
- Outer step sill (LH)
- Outer sill reinforcement (LH)
- Lower outer rear wheelhouse extension (LH)
- Remove the welding point (A) for easier replacement.

• Upper outer rear wheelhouse extension (LH)

BRM-40



C: Vehicle front

View D: Before installing outer sill reinforcement

View E: Before installing outer sill reinforcement and upper outer rear wheelhouse extension

View F: Before installing outer sill reinforcement, upper outer rear wheelhouse extension and lower outer rear wheelhouse extension

View G: Before installing outer step sill

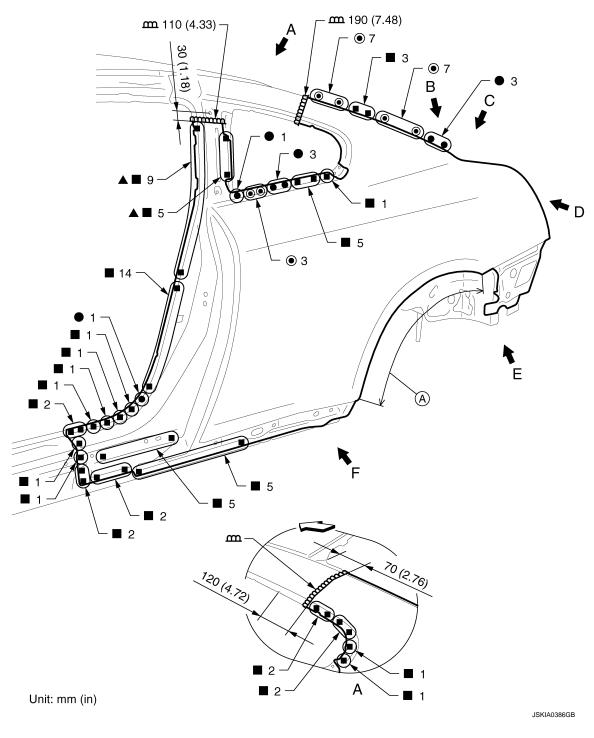
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< REMOVAL AND INSTALLATION >

[FOR USA AND CANADA]

Rear Fender

INFOID:000000007474039



A. Hemming portion

<⊐: Vehicle front

▲: Drill ¢10 mm (0.39 in) hole for the plug welding hole (ultra high strength plate).

Replacement parts

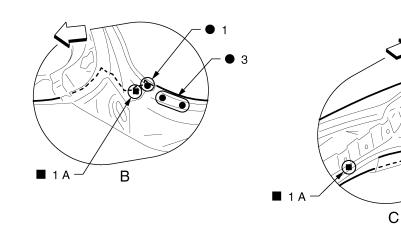
• Rear fender assembly (LH)

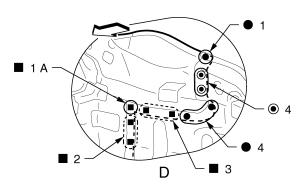
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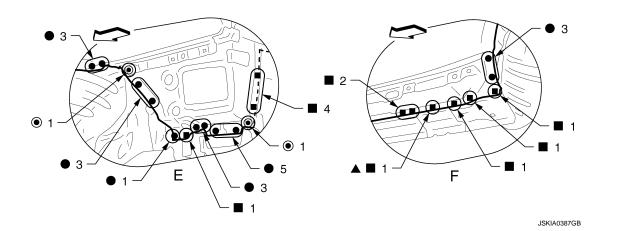
D

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<⊐: Vehicle front

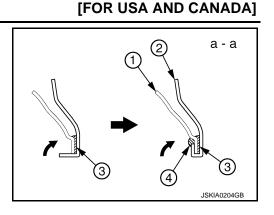
INSTALLATION NOTES

Revision: 2013 February

< REMOVAL AND INSTALLATION >

- Apply the adhesive to the flange of wheel arch and hem it.
- Seal up the area around the hemmed end of the flange.
- Refer to BRM-23, "Rear Fender Hemming Process".
 - 1. Outer rear wheelhouse
 - 3. Adhesive

- 2. Rear fender
- 4. Sealant



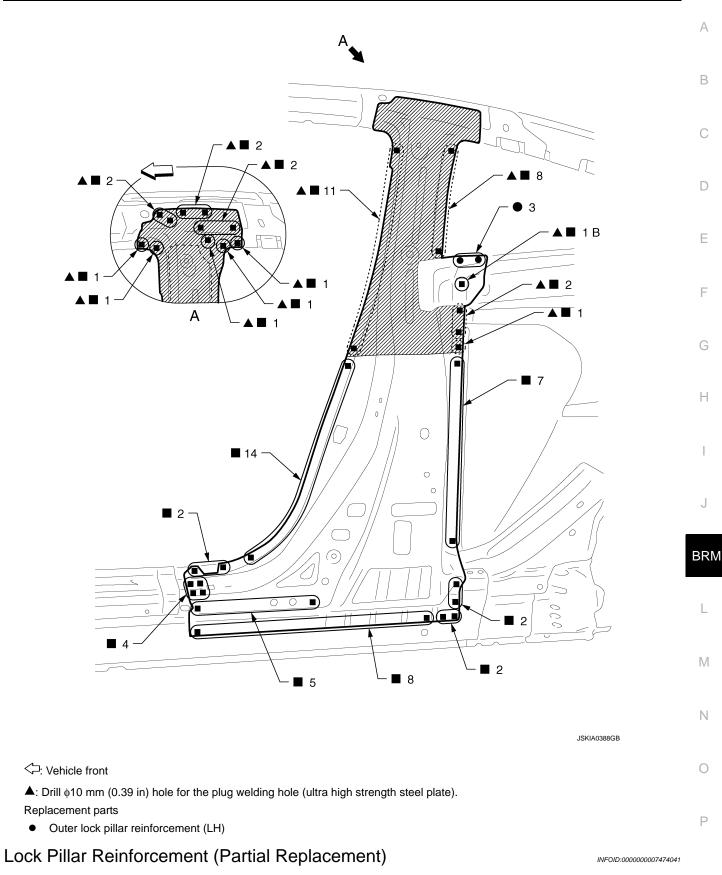
Lock Pillar Reinforcement

INFOID:000000007474040

Work after roof and rear fender are removed.

Never cut and joint the shaded area (see Figure) of lock pillar reinforcement, because it is made of ultra high strength steel plate.

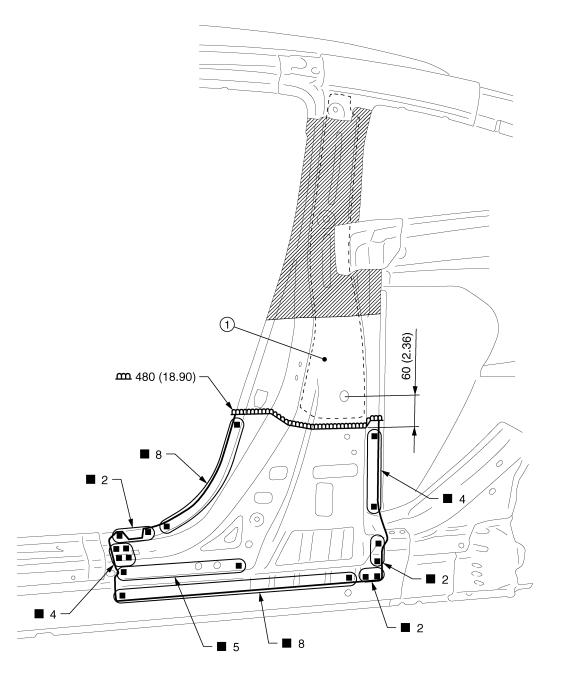
< REMOVAL AND INSTALLATION >



Work after rear fender are removed.

Never cut and joint the shaded area (see Figure) of lock pillar reinforcement and the upper inner lock pillar reinforcement, because they are made of ultra high strength steel plate.

BRM-45



Unit: mm (in)

JSKIA0389GB

1. Upper inner lock pillar reinforcement

C: Vehicle front

Replacement parts

• Outer lock pillar reinforcement (LH)

Outer Wheelhouse

Work after rear fender is removed.

Cut the upper outer rear wheelhouse extension and the rear pillar reinforcement as shown in the figure for repairing the hidden welding point.

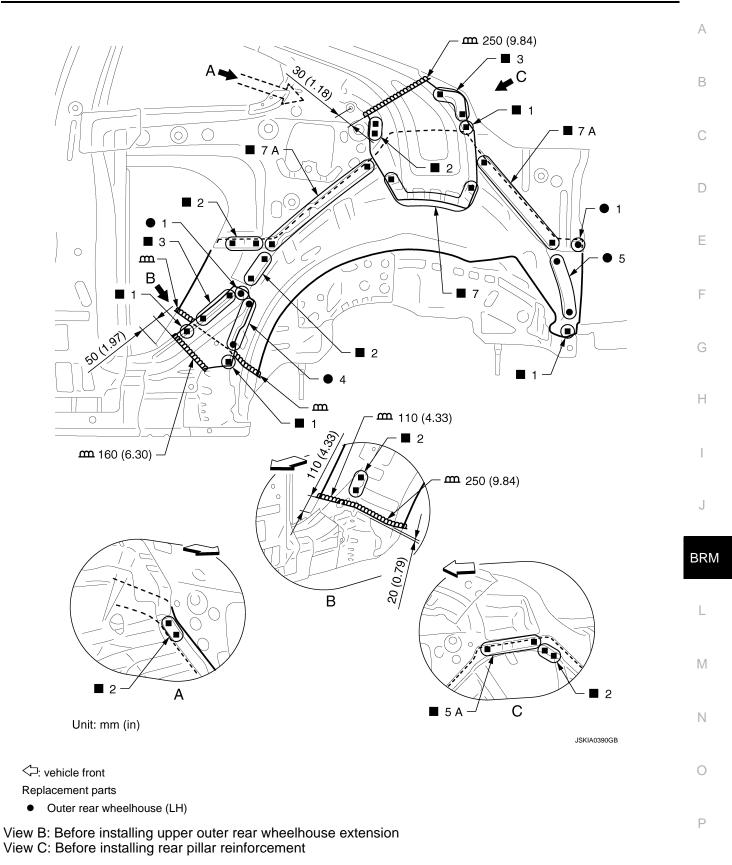
Reuse the upper outer rear wheelhouse extension and the rear pillar reinforcement (cut parts).

BRM-46

INFOID:000000007474042

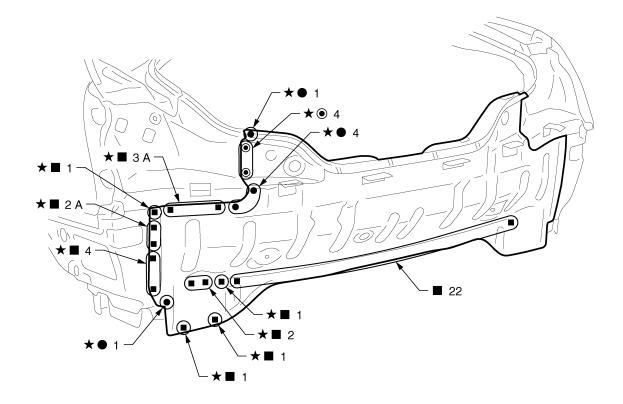
< REMOVAL AND INSTALLATION >

[FOR USA AND CANADA]



< REMOVAL AND INSTALLATION >

INFOID:000000007474043



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 \bigstar : An equivalent welding portion with the same dimensions is on the opposite side. Replacement parts

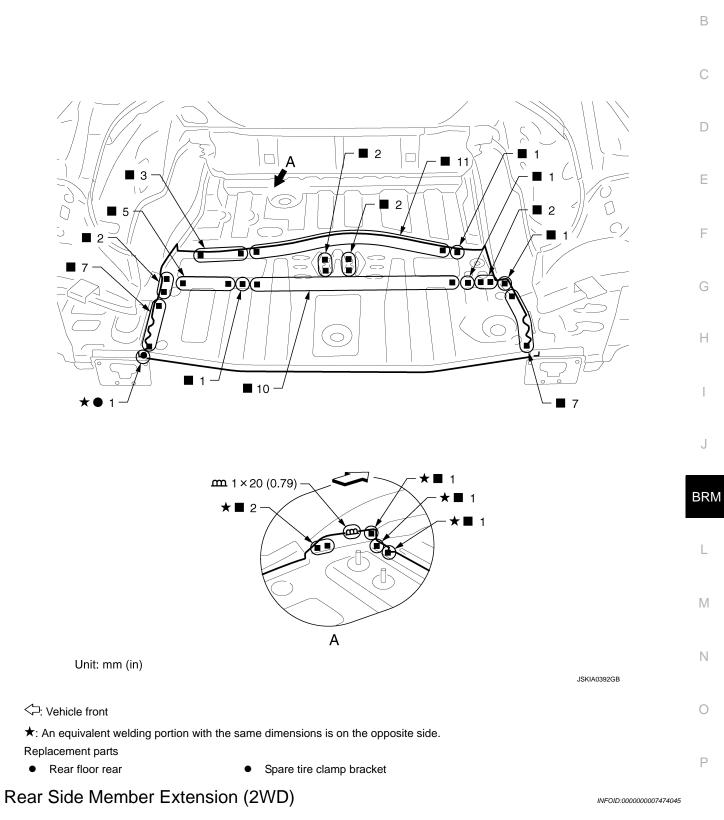
• Rear panel assembly

Rear Floor Rear

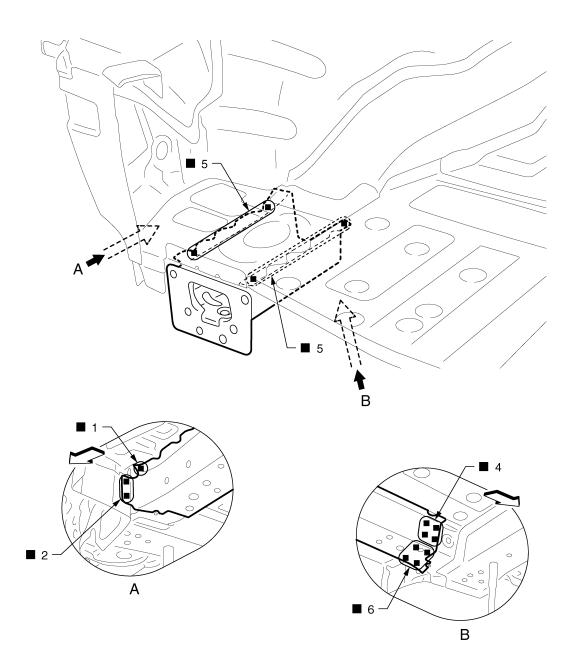
Work after rear panel is removed.

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А



Work after rear panel is removed.



JSKIA0393GB

C: Vehicle front Replacement parts

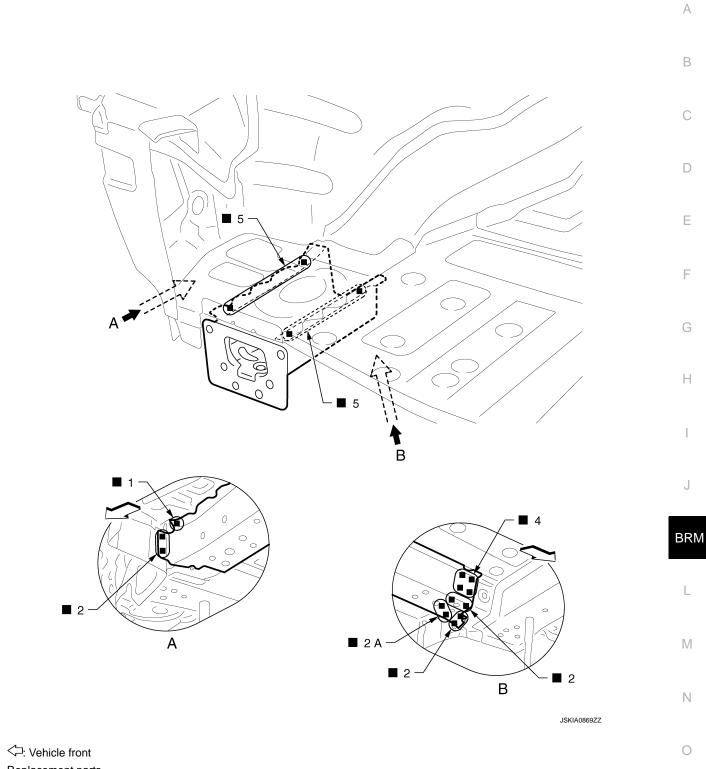
• Rear side member extension (LH)

Rear Side Member Extension (AWD)

Work after rear panel is removed.

INFOID:000000007474046





Replacement parts

• Rear side member extension (LH)

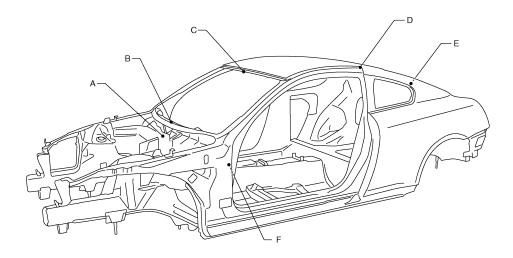
Ρ

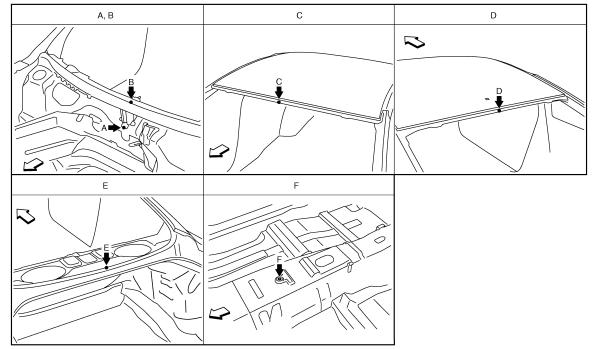
SERVICE DATA AND SPECIFICATIONS (SDS) SERVICE DATA AND SPECIFICATIONS (SDS) BODY ALIGNMENT

Body Center Marks

INFOID:000000007474047

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.





JSKIA0372GB

C: Vehicle front

Unit: mm (in)

Points	Portion	Marks
А, В	Upper dash	Embossment
С	Front roof	Embossment
D	Rear roof	Embossment

< SERVICE DATA AND SPECIFICATIONS (SDS)

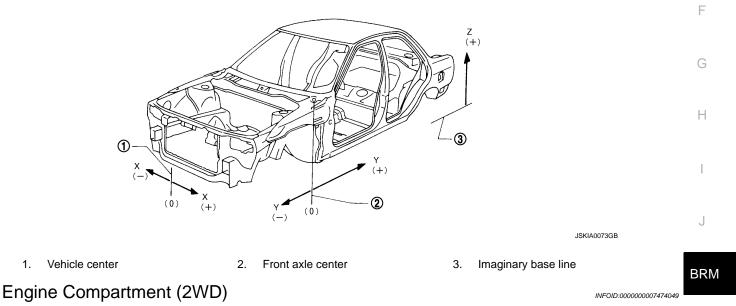
[FOR USA AND CANADA]

Points	Portion	Marks	
E	Rear waist	Embossment	A
F	Trans control reinforcement	Hole 14×12 (0.55×0.47)	-

Description

• 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)]



MEASUREMENT

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

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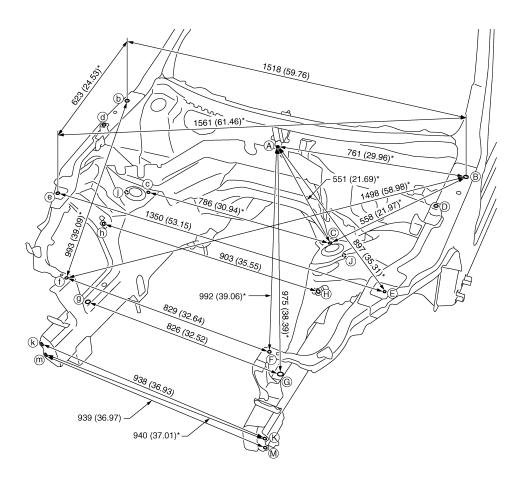
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< SERVICE DATA AND SPECIFICATIONS (SDS)

Unit : mm (in)



«The others»

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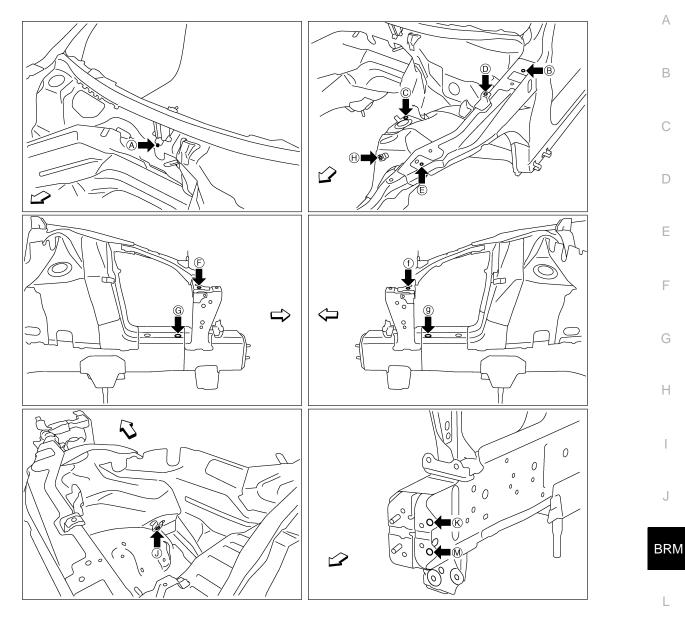
Unit: mm (in)

Point	Dimension	Memo	Point	Dimension	Memo	Point	Dimension	Memo
A - D	744 (29.29)*		B - d	1489 (58.62)*		D - d	1427 (56.18)	
B - D	227 (8.94)*		C - h	875 (34.45)*		J-j	903 (35.55)	

MEASUREMENT POINTS

< SERVICE DATA AND SPECIFICATIONS (SDS)

[FOR USA AND CANADA]



JSKIA0353GB

Μ

C: Vehicle front

			Unit: mm (in)	
Point	Material	Point	Material	Ν
А	Upper dash indent of center positioning mark	F, f	Radiator core stay installing hole center ϕ 12 (0.47)	
B, b	Hood hinge installing hole center ϕ 12 (0.47)	G, g	Front side member hole center $\phi 20$ (0.79)	C
С, с	Front strut installing hole center 16×10 (0.63×0.39)	H, h, J, j	Nut holder hole center ϕ 16 (0.63)	
D, d	Upper front fender bracket installing hole center $\phi 7$ (0.28)	K, k, M, m	Front bumper stay installing hole center ϕ 11 (0.43)	F
E, e	Hoodledge reinforcement hole center ϕ 12 (0.47)			

Engine Compartment (AWD)

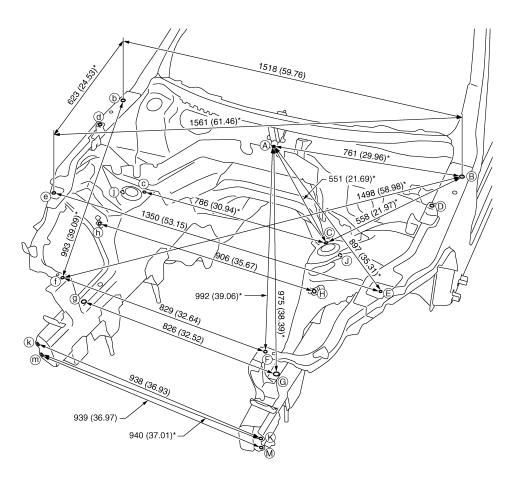
Measurement

INFOID:000000007474050

Revision: 2013 February

< SERVICE DATA AND SPECIFICATIONS (SDS) [FC

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



JSKIA0874GB

Unit: mm (in)

«The others»

Unit: mm (in)

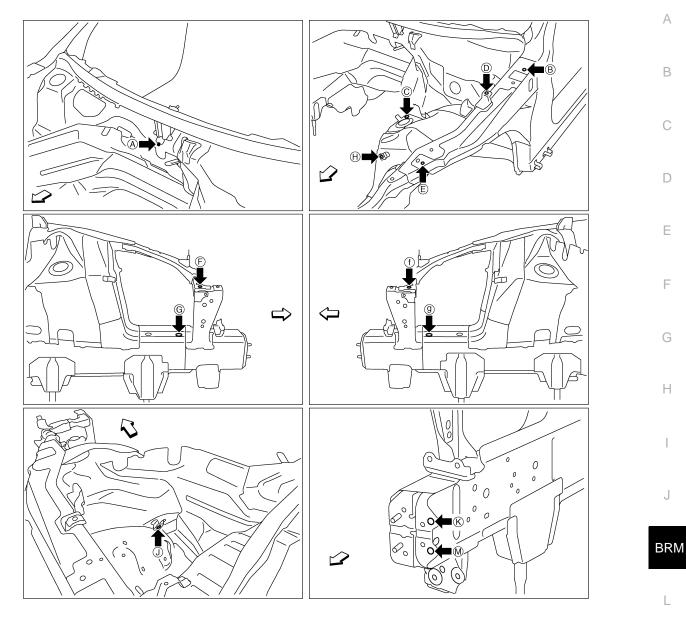
Point	Dimension	Memo	Point	Dimension	Memo	Point	Dimension	Memo
A - D	744 (29.29)*		B - d	1489 (58.62)*		D - d	1427 (56.18)	
B - D	227 (8.94)*		C - h	878 (34.57)*		J-j	906 (35.67)	

Measurement Points



< SERVICE DATA AND SPECIFICATIONS (SDS)

[FOR USA AND CANADA]



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Μ

Unit: mm (in)

C: Vehicle front

Point	Material	Point	Material
A	Upper dash indent of center positioning mark	F, f	Radiator core stay installing hole center ϕ 12 (0.47)
B, b	Hood hinge installing hole center ϕ 12 (0.47)	G, g	Front side member hole center ϕ 20 (0.79)
С, с	Front strut installing hole center 16×10 (0.63×0.39)	H, h, J, j	Nut holder hole center \u00e916 (0.63)
D, d	Upper front fender bracket installing hole center ϕ 7 (0.28)	K, k, M, m	Front bumper stay installing hole center ϕ 11 (0.43)
E, e	Hoodledge reinforcement hole center ϕ 12 (0.47)		

Underbody (2WD)

INFOID:000000007474051

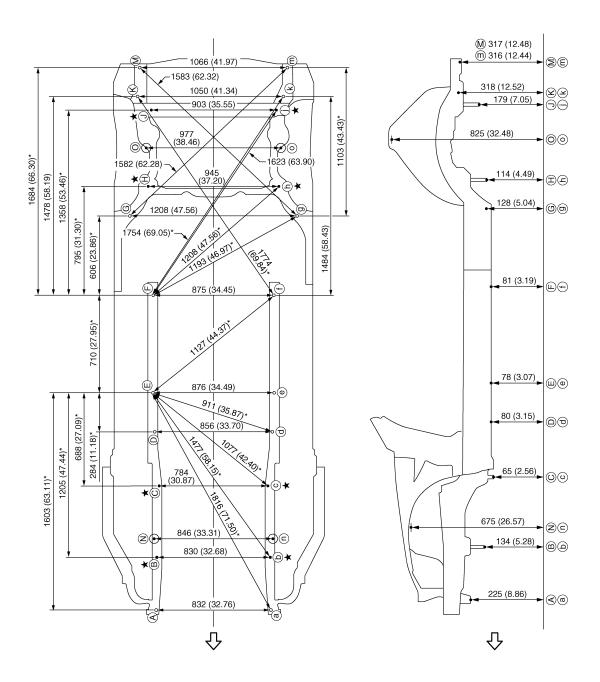
MEASUREMENT

Revision: 2013 February

[FOR USA AND CANADA]

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

< SERVICE DATA AND SPECIFICATIONS (SDS)



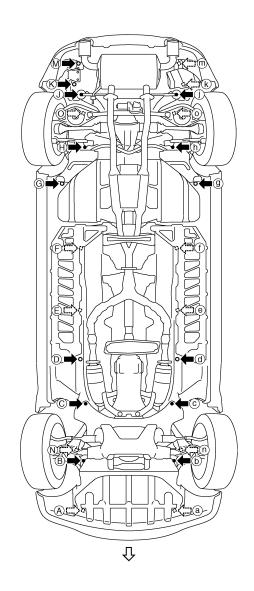
Unit: mm (in) <⊐: Vehicle front ★: Bolt head

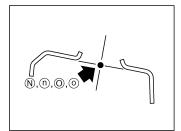
MEASUREMENT POINTS

Revision: 2013 February

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< SERVICE DATA AND SPECIFICATIONS (SDS)





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< SERVICE DATA AND SPECIFICATIONS (SDS)

[FOR USA AND CANADA]

					11				Unit: mm (ii
Points		Coordinates		Remarks Points -			Coordinates	Remarks	
1 01113	Х	Y	Z	Remains	1 01113	Х	Y	Z	Remains
A, a	±416.0 (±16.378)	-496.0 (-19.528)	224.5 (8.839)	Hole	J, j	±451.5 (±17.776)	3163.9 (124.563)	179.1 (7.051)	Bolt head
B, b	±415.0 (±16.339)	-104.0 (-4.094)	133.5 (5.256)	Bolt head	к	550.0 (21.654)	3264.6 (128.527)	318.0 (12.520)	Hole
C, c	±392.0 (±15.433)	414.0 (16.299)	64.5 (2.539)	Bolt head	k	-500.0 (-19.685)	3273.3 (128.870)	318.0 (12.520)	Hole
D, d	±428.0 (±16.850)	816.6 (32.150)	80.0 (3.150)	Hole 16×18 (0.63×0.71)	м	533.0 (20.984)	3475.0 (136.811)	317.0 (12.480)	Hole
E, e	±438.0 (±17.244)	1100.0 (43.307)	78.0 (3.071)	Hole	m	-533.0 (-20.984)	3475.0 (136.811)	316.4 (12.457)	Hole \\$16 (0.63)
F, f	±437.5 (±17.224)	1810.0 (71.260)	81.2 (3.197)	Hole	N, n	±423.0 (±16.654)	38.0 (1.496)	674.5 (26.555)	Hole
G, g	±604.0 (±23.779)	2390.5 (94.114)	128.3 (5.051)	Hole	О, о	±488.4 (±19.228)	2891.7 (113.846)	825.0 (32.480)	Hole ¢68 (2.68)
H, h	±472.6 (±18.606)	2603.8 (102.512)	114.0 (4.488)	Bolt head					

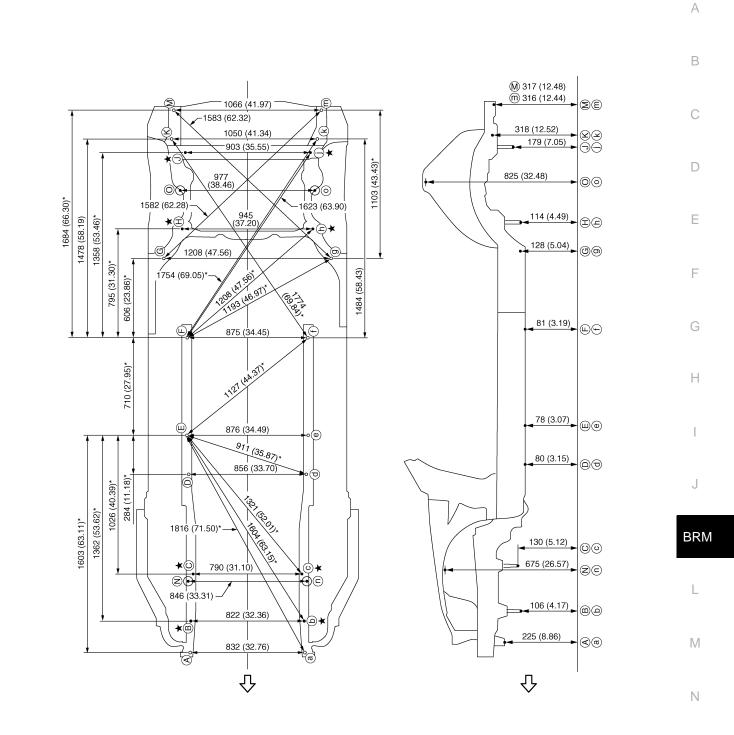
Underbody (AWD)

INFOID:000000007474052

MEASUREMENT

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

< SERVICE DATA AND SPECIFICATIONS (SDS)



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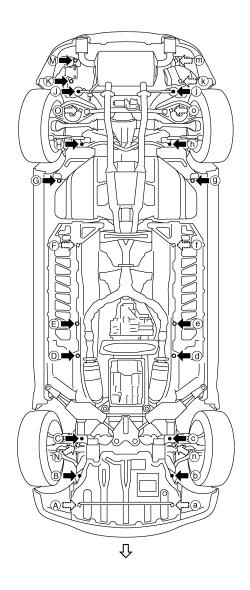
Ο

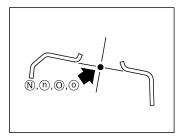
Unit: mm (in)

★: Bolt head

MEASUREMENT POINTS

< SERVICE DATA AND SPECIFICATIONS (SDS)





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Chicle front

Unit: mm (in)

					1				Onit: mini (iii)
Points		Coordinates		Remarks	Points		Coordinates	5	Remarks
FOILTS	Х	Y	Z	Temaiks	FOILTS	Х	Y	Z	Remarks
A, a	±416.0 (±16.378)	-496.0 (-19.528)	224.5 (8.839)	Hole	J, j	±451.5 (±17.776)	3163.9 (124.563)	179.1 (7.051)	Bolt head
B, b	±411.0 (±16.181)	-261.0 (-10.276)	105.5 (4.154)	Bolt head	К	±550.0 (21.654)	3264.6 (128.527)	318.0 (12.520)	Hole
С, с	±395.0 (±15.551)	76.0 (2.992)	129.5 (5.098)	Bolt head	k	-500.0 (-19.685)	3273.3 (128.870)	318.0 (12.520)	Hole
D, d	±428.0 (±16.850)	816.6 (32.150)	80.0 (3.150)	Hole 16×18 (0.63×0.71)	М	533.0 (20.984)	3475.0 (136.811)	317.0 (12.480)	Hole
E, e	±438.0 (±17.244)	1100.0 (43.307)	78.0 (3.071)	Hole	m	-533.0 (-20.984)	3475.0 (136.811)	316.4 (12.457)	Hole
F, f	±437.5 (±17.224)	1810.0 (71.260)	81.2 (3.197)	Hole	N, n	±423.0 (±16.654)	38.0 (1.496)	674.5 (26.555)	Hole

Revision: 2013 February



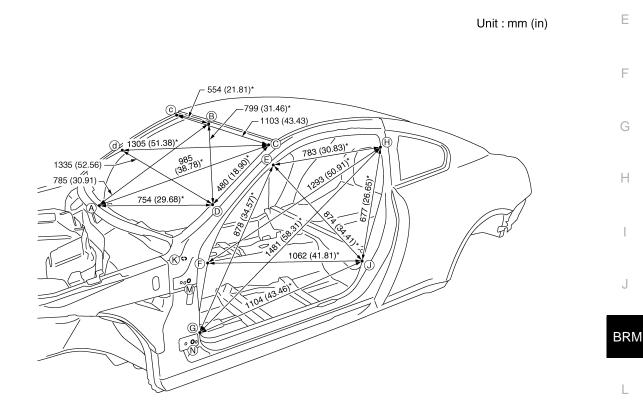
< SERVICE DATA AND SPECIFICATIONS (SDS)

Points	Coordinates			Remarks	Points		Coordinates	i	Remarks	
Foints	Х	Y	Z	Remarks	FOILTS	Х	Y	Z	Remarks	A
G, g	±604.0 (±23.779)	2390.5 (94.114)	128.3 (5.051)	Hole	О, о	±488.4 (±19.228)	2891.7 (113.846)	825.0 (32.480)	Hole	D
H, h	±472.6 (±18.606)	2603.8 (102.512)	114.0 (4.488)	Bolt head						D

Passenger Compartment

MEASUREMENT

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



JSKIA0356GB

Unit: mm (in)

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Memo Point Dimension Memo Point Dimension Memo Point Dimension Memo Point Dimension F - j J-j E - e 1253 (49.33) 1796 (70.71)* 1451 (57.13) M - m 1574 (61.97) E - g 987 (38.86)* 1434 (56.46)* 1607 (63.27)* G - g 1447 (56.97) K - E M - H E - h 1472 (57.95)* 1997 (78.62)* K - F 793 (31.22)* 1186 (46.69)* G - h M - J 1607 (63.27)* 1822 (71.73)* 749 (29.49)* 1596 (62.83) E - j G - j K - G N - n F-f 1446 (56.93) H - h 1240 (48.82) K - H 1443 (56.81)* N - H 1558 (61.34)* F - h 1861 (73.27)* H - j 1503 (59.17)* K - J 1164 (45.83)* N - J 1170 (46.06)*

MEASUREMENT POINTS

Revision: 2013 February

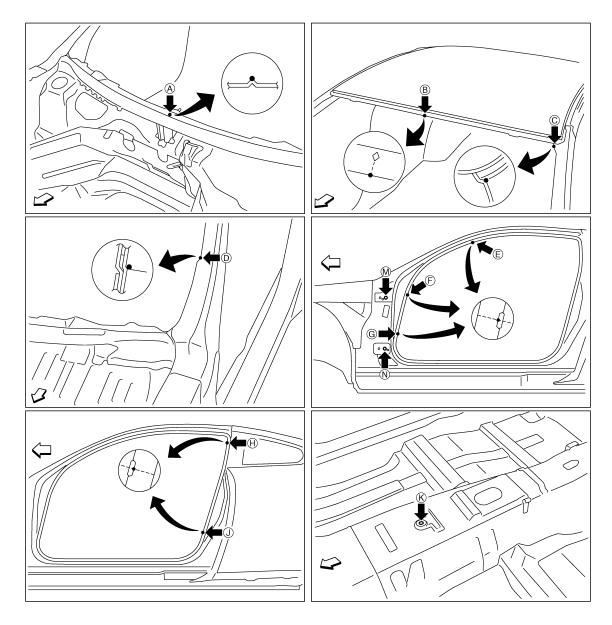
«The others»

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[FOR USA AND CANADA]

INFOID:000000007474053

< SERVICE DATA AND SPECIFICATIONS (SDS)



JSKIA0357GB

Ch: Vehicle front

Unit: mm (in)

Point	Material	Point	Material
A	Upper dash positioning mark of center position- ing mark	H, h, J, j	Rear fender indent
В	Roof flange end of center positioning mark	К	Trans control reinforcement hole center of center positioning mark 14×12 (0.55×0.47)
C, c, D, d	Front pillar joggle	M, m, N, n	Door hinge installing hole center M, m: \u00e914 (0.55) N, n: \u00e912 (0.47)
E, e, F, f, G, g	Front pillar indent		

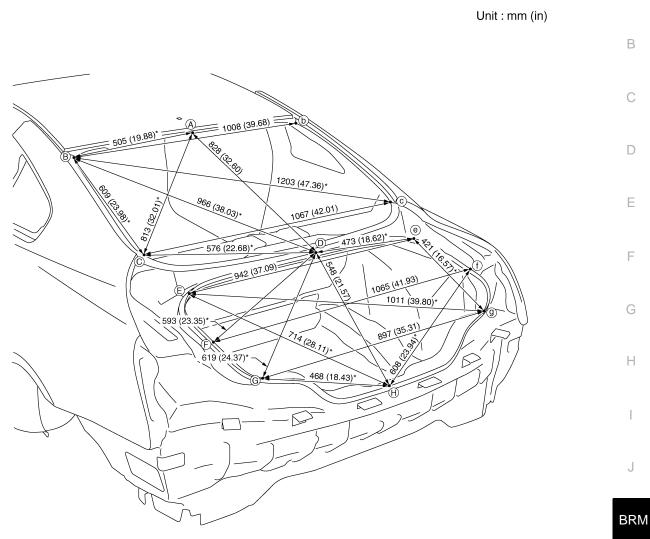
Rear Body

INFOID:000000007474054

MEASUREMENT

< SERVICE DATA AND SPECIFICATIONS (SDS)

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



MEASUREMENT POINTS

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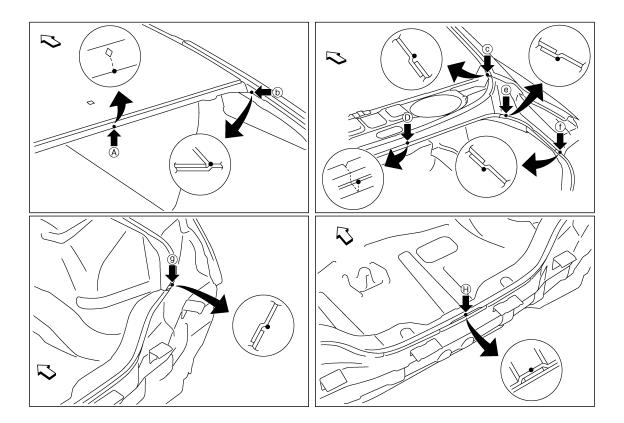
[FOR USA AND CANADA]

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< SERVICE DATA AND SPECIFICATIONS (SDS)



JSKIA0359GB

: Vehicle front

Point	Material	Point	Material
А	Roof flange end of center positioning mark	F, f, G, g	Rear combination lamp base joggle
B, b, C, c, E, e	Rear fender corner joggle	н	Upper rear panel flange end of center positioning mark
D	Rear waist flange end of center positioning mark		

LOCATION OF PLASTIC PARTS

< SERVICE DATA AND SPECIFICATIONS (SDS)

LOCATION OF PLASTIC PARTS

Precautions for Plastics

INFOID:000000007474055

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[FOR USA AND CANADA]

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

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.

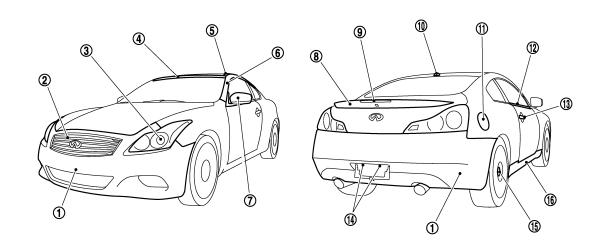
• Plastic parts should be repaired and painted using methods suiting the materials' characteristics.

< SERVICE DATA AND SPECIFICATIONS (SDS)

Location of Plastic Parts

INFOID:000000007474056

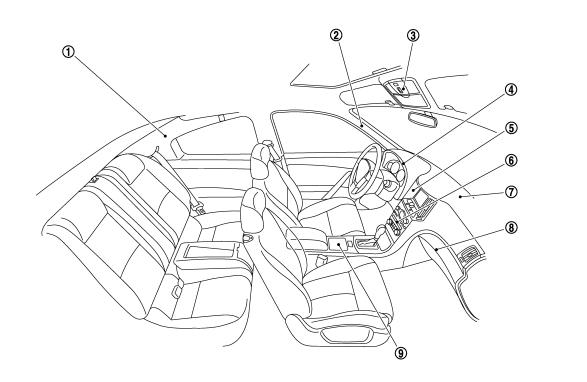
[FOR USA AND CANADA]



JSKIA0362GB	

	Component		Material		Component		Material
1	Bumper fascia	•		0	Lligh mount stop lown	Lens	PMMA
2	Front grille			9	High mount stop lamp	Housing	ABS
3	Front combination lamp Lens Housing		PC	10	Satellite radio antenna		ASA + PC
3			PP	11	Fuel filler lid	PA + PPE	
4	Windshield molding		TPO	12	Door outside molding		PVC + Stainless
5	Roof side molding		PVC + Stainless	13	Door outside handle		PC + PET
6	Front pillar finisher	Front pillar finisher		4.4	Licence plate lown	Lens	PMMA
		Cover	ABS	14	License plate lamp	Housing	PC
7	Door outside mirror	Housing	PP	15	Wheel disk cap		PC + ABS
	Base		PA + Glass fiber	16	Center mudguard		PP
8	Trunk lid finisher	+	ABS				

< SERVICE DATA AND SPECIFICATIONS (SDS)



JSKIA0363GB

	Component	Component			Component		Material
1	Rear pillar finisher		PP			Core	PP
2	Front pillar finisher	oillar finisher		7	Instrument panel	Pad	PUR
2	Manlama	Lens	PC			Skin	TPU
3	Map lamp	Housing	PP			Core	ABS
4	Cluster lid A	Upper	ABS	8	Glove box	Pad	PUR
4	Cluster IId A	Lower	PP			Skin	PVC
5	Cluster lid D		ABS	9	Center console		PP + PVC
6	Cluster lid C	Standard finisher	ABS				
0		Wood fin- isher	PC + ABS				

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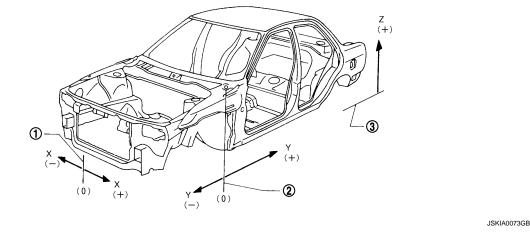
< SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS) BODY ALIGNMENT

Description

INFOID:000000007798469

- 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)]



1. Vehicle center2. Front axle center3. Imaginary base line

Engine Compartment (2WD)

INFOID:000000007798470

MEASUREMENT

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

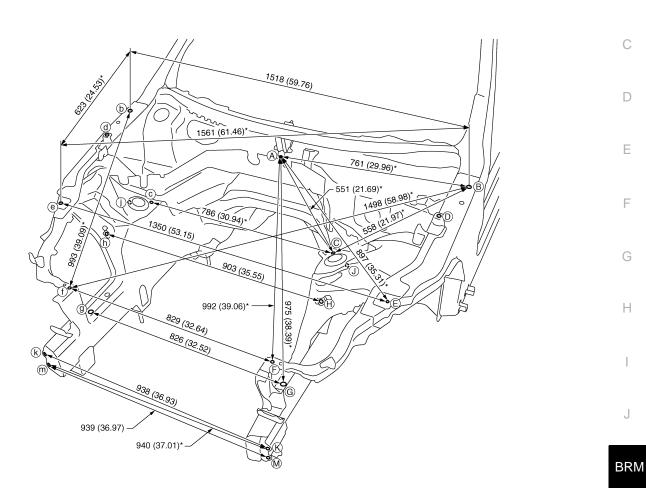
< SERVICE DATA AND SPECIFICATIONS (SDS)

[FOR MEXICO]

Unit : mm (in)

В

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«The others»

Unit: mm (in) \mathbb{M}

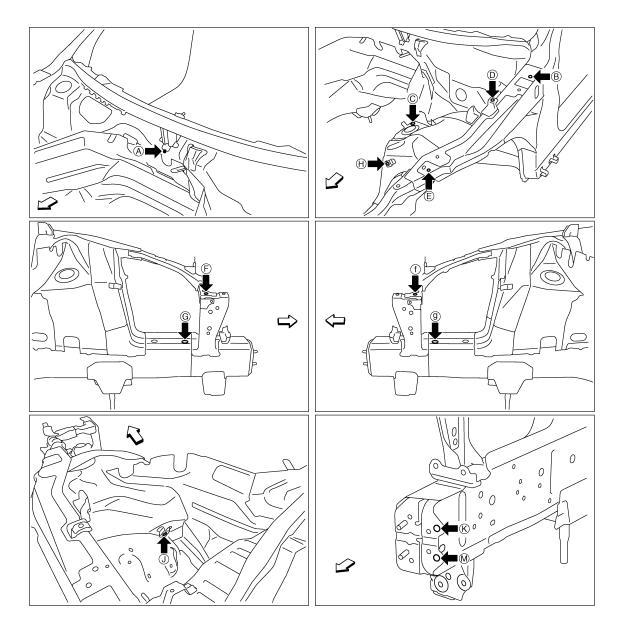
JSKIA0352GB

Point	Dimension	Memo	Point	Dimension	Memo	Point	Dimension	Memo
A - D	744 (29.29)*		B - d	1489 (58.62)*		D - d	1427 (56.18)	
B - D	227 (8.94)*		C - h	875 (34.45)*		J - j	903 (35.55)	

MEASUREMENT POINTS

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< SERVICE DATA AND SPECIFICATIONS (SDS)



JSKIA0353GB

Chicle front

Unit: mm (in)

Point	Material	Point	Material		
A	Upper dash indent of center positioning mark	F, f	Radiator core stay installing hole center ϕ 12 (0.47)		
B, b	Hood hinge installing hole center ϕ 12 (0.47)	G, g	Front side member hole center $\phi 20~(0.79)$		
С, с	Front strut installing hole center 16×10 (0.63×0.39)	H, h, J, j	Nut holder hole center \u00f616 (0.63)		
D, d	Upper front fender bracket installing hole center $\phi 7$ (0.28)	K, k, M, m	Front bumper stay installing hole center ϕ 11 (0.43)		
E, e	Hoodledge reinforcement hole center ϕ 12 (0.47)				

Underbody (2WD)

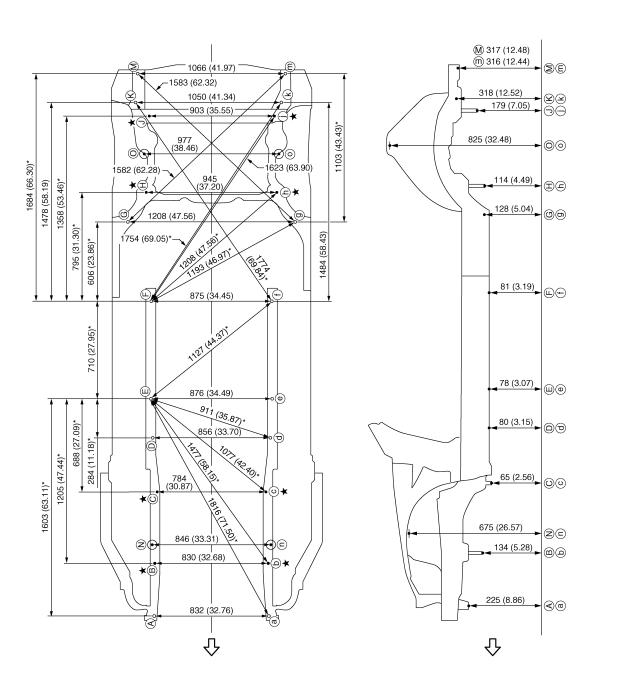
INFOID:000000007798472

MEASUREMENT

Revision: 2013 February

< SERVICE DATA AND SPECIFICATIONS (SDS)

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



Unit: mm (in) <⊐: Vehicle front ★: Bolt head

MEASUREMENT POINTS

Revision: 2013 February

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[FOR MEXICO]

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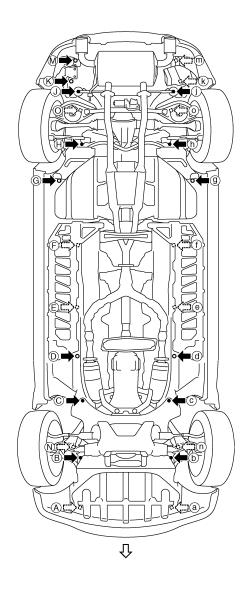
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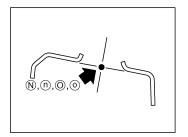
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< SERVICE DATA AND SPECIFICATIONS (SDS)





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C: Vehicle front

< SERVICE DATA AND SPECIFICATIONS (SDS)

									Unit: mm (in)
Points		Coordinates		Remarks	Points		Coordinates	;	Domorko
Points	Х	Y	Z	Remarks	Points	Х	Y	Z	Remarks
A, a	±416.0 (±16.378)	-496.0 (-19.528)	224.5 (8.839)	Hole	J, j	±451.5 (±17.776)	3163.9 (124.563)	179.1 (7.051)	Bolt head
B, b	±415.0 (±16.339)	-104.0 (-4.094)	133.5 (5.256)	Bolt head	к	550.0 (21.654)	3264.6 (128.527)	318.0 (12.520)	Hole
C, c	±392.0 (±15.433)	414.0 (16.299)	64.5 (2.539)	Bolt head	k	-500.0 (-19.685)	3273.3 (128.870)	318.0 (12.520)	Hole
D, d	±428.0 (±16.850)	816.6 (32.150)	80.0 (3.150)	Hole 16×18 (0.63×0.71)	М	533.0 (20.984)	3475.0 (136.811)	317.0 (12.480)	Hole
E, e	±438.0 (±17.244)	1100.0 (43.307)	78.0 (3.071)	Hole	m	-533.0 (-20.984)	3475.0 (136.811)	316.4 (12.457)	Hole
F, f	±437.5 (±17.224)	1810.0 (71.260)	81.2 (3.197)	Hole \u00f616 (0.63)	N, n	±423.0 (±16.654)	38.0 (1.496)	674.5 (26.555)	Hole
G, g	±604.0 (±23.779)	2390.5 (94.114)	128.3 (5.051)	Hole	О, о	±488.4 (±19.228)	2891.7 (113.846)	825.0 (32.480)	Hole
H, h	±472.6 (±18.606)	2603.8 (102.512)	114.0 (4.488)	Bolt head					

Passenger Compartment

MEASUREMENT

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

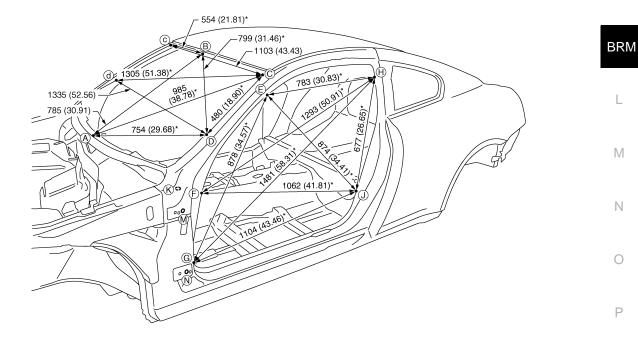
Unit : mm (in)

J

G

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INFOID:000000007798474



JSKIA0356GB

«The others»

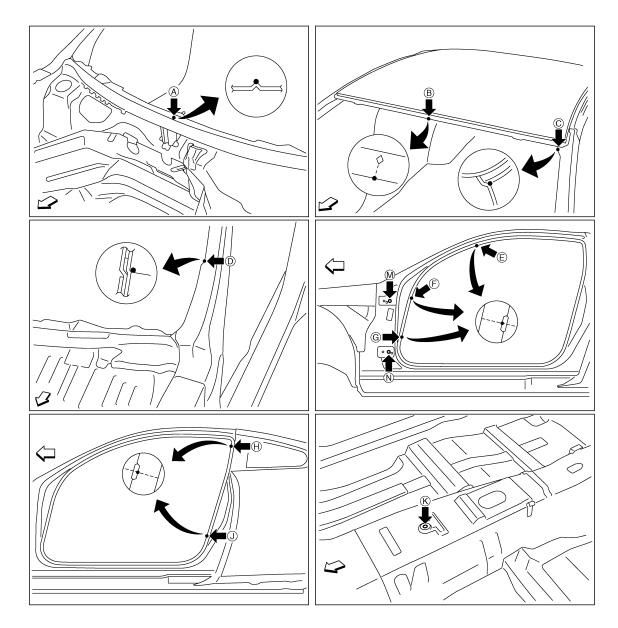
[FOR MEXICO]

< SERVICE DATA AND SPECIFICATIONS (SDS)

[FOR MEXICO]

										Uni	t: mm (in)
Point	Dimension	Memo									
E - e	1253 (49.33)		F - j	1796 (70.71)*		J-j	1451 (57.13)		M - m	1574 (61.97)	
E - g	1607 (63.27)*		G - g	1447 (56.97)		K - E	987 (38.86)*		M - H	1434 (56.46)*	
E - h	1472 (57.95)*		G - h	1997 (78.62)*		K - F	793 (31.22)*		M - J	1186 (46.69)*	
E - j	1607 (63.27)*		G - j	1822 (71.73)*		K - G	749 (29.49)*		N - n	1596 (62.83)	
F - f	1446 (56.93)		H - h	1240 (48.82)		K - H	1443 (56.81)*		N - H	1558 (61.34)*	
F - h	1861 (73.27)*		H - j	1503 (59.17)*		K - J	1164 (45.83)*		N - J	1170 (46.06)*	

MEASUREMENT POINTS



JSKIA0357GB

Chicle front

< SERVICE DATA AND SPECIFICATIONS (SDS)

[FOR MEXICO]

Point	Material	Point	Material
A	Upper dash positioning mark of center position- ing mark	H, h, J, j	Rear fender indent
В	Roof flange end of center positioning mark	К	Trans control reinforcement hole center of center positioning mark 14×12 (0.55×0.47)
C, c, D, d	Front pillar joggle	M, m, N, n	Door hinge installing hole center M, m: \u00e914 (0.55) N, n: \u00e912 (0.47)
E, e, F, f, G, g	Front pillar indent		

Rear Body

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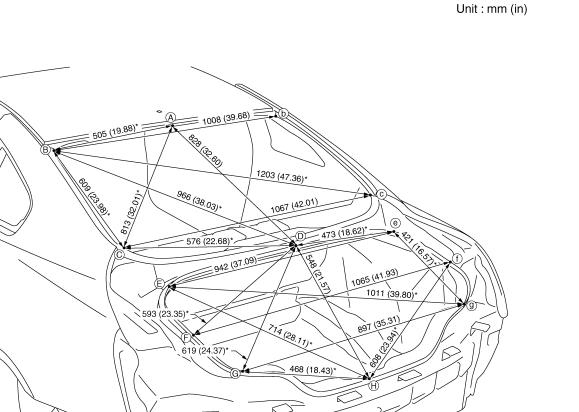
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MEASUREMENT

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



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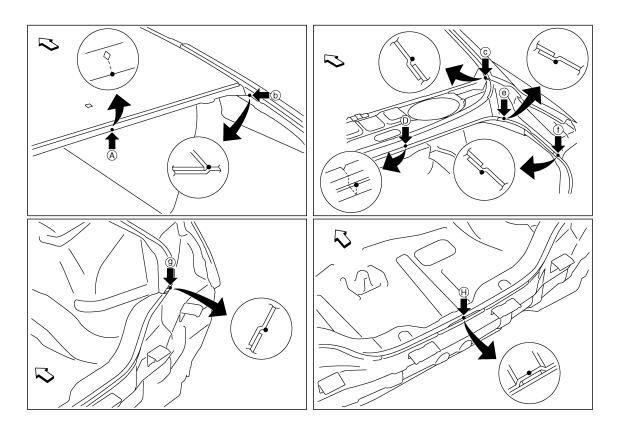
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MEASUREMENT POINTS

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< SERVICE DATA AND SPECIFICATIONS (SDS)



JSKIA0359GB

C: Vehicle front

Point	Material	Point	Material
A	Roof flange end of center positioning mark	F, f, G, g	Rear combination lamp base joggle
B, b, C, c, E, e	Rear fender corner joggle	н	Upper rear panel flange end of center positioning mark
D	Rear waist flange end of center positioning mark		