SECTION BODY REPAIR

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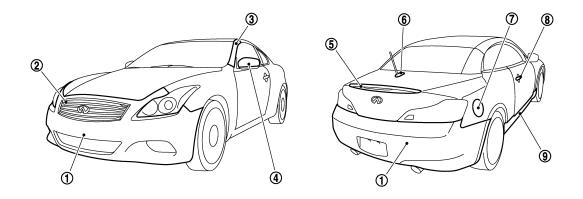
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< VEHICLE INFORMATION >

VEHICLE INFORMATION BODY EXTERIOR PAINT COLOR

Body Exterior Paint Color

INFOID:000000004373176



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		Color code	BA54	BB21	BKH3	BK23	BK51	BQAA	BRAF	BNAB	BKAD
		Description	Red	Blue	Black	Silver	Gray	White	Light Blue	Dark Red	Gray
	Component	Paint type ^{Note}	CS	PM	2S	М	М	3P	М	2P	М
		Anti scratch advanced paint	×	×	×	×	×	×	×	×	×
1	Bumper fascia	Body color	BA54	BB21	BKH3	BK23	BK51	BQAA	BRAF	BNAB	BKAD
2	Front grille	Chromium plate	Cr	Cr	Cr	Cr	Cr	Cr	Cr	Cr	Cr
3	Front pillar finisher	Body color	BA54	BB21	BKH3	BK23	BK51	BQAA	BRAF	BNAB	BKAD
4	Door out- side mirror	Body color	BA54	BB21	ВКНЗ	BK23	BK51	BQAA	BRAF	BNAB	BKAD
5	Trunk lid finisher	Chromium plate	Cr	Cr	Cr	Cr	Cr	Cr	Cr	Cr	Cr
6	Satellite radio anten- na	Body color	BA54	BB21	ВКНЗ	BK23	BK51	BQAA	BRAF	BNAB	BKAD
7	Fuel filler lid	Body color	BA54	BB21	BKH3	BK23	BK51	BQAA	BRAF	BNAB	BKAD
8	Door outside handle	Body color	BA54	BB21	BKH3	BK23	BK51	BQAA	BRAF	BNAB	BKAD
9	Center mudguard	Body color	BA54	BB21	BKH3	BK23	BK51	BQAA	BRAF	BNAB	BKAD

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

• TM: Micro titanium metallic

PM: Pearl metallic

< PRECAUTION >

PRECAUTION REPAIRING HIGH STRENGTH STEEL

High Strength Steel (HSS)

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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:

	Major applicable parts	Tensile strength
	Front strut housing	
	Upper front hoodledge	
	Hoodledge reinforcement	
	Upper rear hoodledge	
	Lower dash crossmember assembly	
l	Lower dash	
	 Front roof assembly 	
	 Upper front pillar reinforcement 	
ſ	 Trans control reinforcement 	
l	(Center front floor component part)	
	2nd and 3rd crossmember	
	(Front floor component part)	
(Inner sill	
	 Rear seat crossmember reinforcement assembly 	370 - 780 MPa
	Rear floor seat belt anchor reinforcement	370 - 780 MPa
	Rear seat crossmember	
	Outer sill reinforcement	
	 Lower front pillar reinforcement assembly 	
	 Outer lock pillar reinforcement 	
	Inner lock pillar	
	 Outer rear wheelhouse extension 	
	 Seat back support 	
	 Inner rear wheelhouse reinforcement 	
	 Front side member assembly 	
	 Front side member closing plate assembly 	
	 Front side member outrigger assembly 	
	 Rear side member assembly 	
В	Other reinforcements	
	Front side member stiffener	
	(Front floor component part)	000 4050 MD
	 Front side member rear extension 	980 - 1350 MPa
	(Front floor component part)	

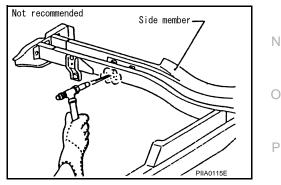
Read the following precautions when repairing HSS:

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.)



REPAIRING HIGH STRENGTH STEEL

< PRECAUTION >

• 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.

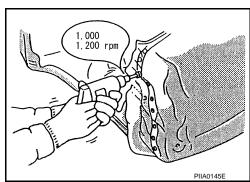
• When cutting HSS panels, avoid gas (torch) cutting if possible. Instead, use a saw to avoid weakening surrounding areas due to heat. If gas (torch) cutting is unavoidable, allow a minimum margin of 50 mm (1.97in).

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

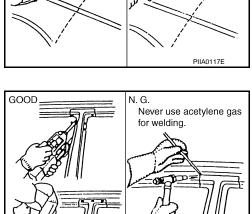
If spot welding is impossible, use MIG. welding. Do not use gas (torch) for welding because it is inferior in welding strength.

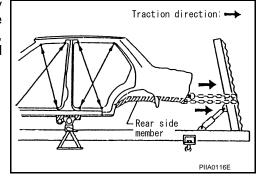
• Spot welding on HSS panels is harder than that of an ordinary steel panel.

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.



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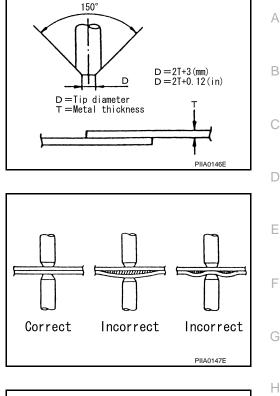
REPAIRING HIGH STRENGTH STEEL

< PRECAUTION >

gaps.

- 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



• Follow the specifications for the proper welding pitch.

	Unit: mm (in)
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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< PREPARATION > PREPARATION REPAIRING MATERIAL

Foam Repair

INFOID:000000005157512

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.

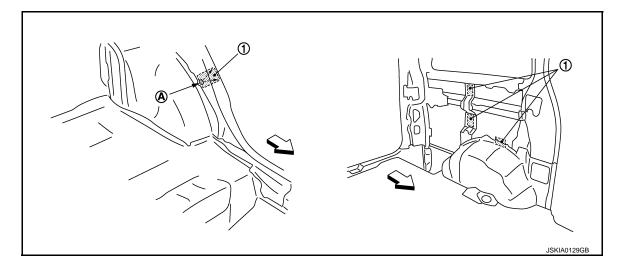
<Urethane foam for foaming agent>

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.

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

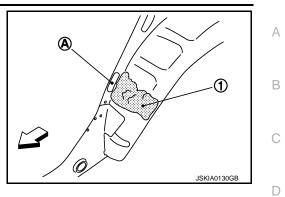
NOTE:

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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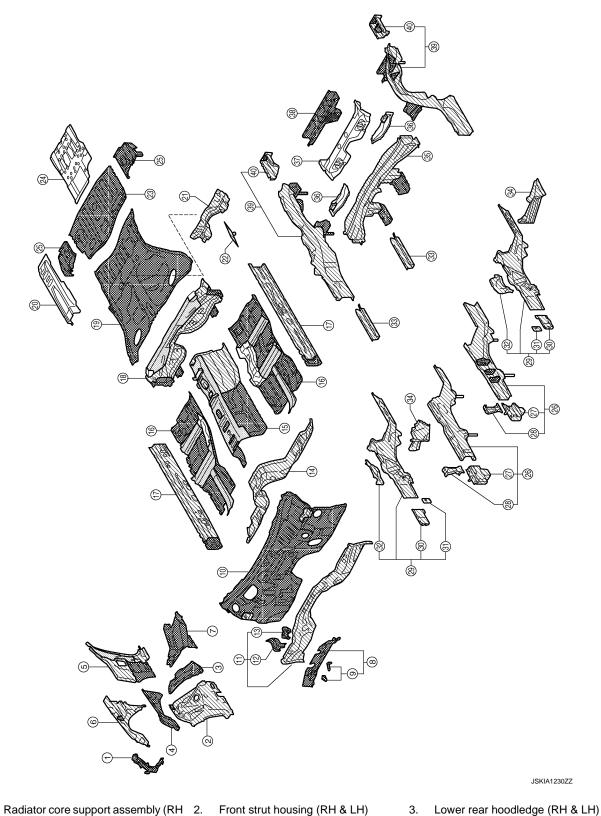
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< PREPARATION >

BODY COMPONENT PARTS

Underbody Component Parts

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

BODY COMPONENT PARTS

< PREPARATION >

7.	Upper side cowl top (RH & LH)	8.	Upper front cowl top assembly	9.	Cowl top bracket			
10.	Upper dash	11.	Lower dash crossmember assembly	12.	Lower outer battery support bracket	А		
13.	Lower battery support bracket	14.	Lower dash	15.	Center front floor			
16.	Front floor (RH & LH)	17.	Inner sill (RH & LH)	18.	Rear seat crossmember reinforce- ment assembly	В		
19.	Rear floor front	20.	Rear floor reinforcement assembly	21.	Rear floor seat belt anchor reinforce- ment			
22.	Nut plate (RH & LH)	23.	Rear floor rear	24.	Spare wheel clamp reinforcement	С		
25.	Rear floor side (RH & LH)	26.	Front side member assembly (RH & LH)	27.	Front side member front extension (RH & LH)			
28.	Front side member connector as- sembly (RH & LH)	29.	Front side member closing plate as- sembly (RH & LH)	30.	Front side member front closing plate (RH & LH)	D		
31.	Front side rear closing reinforcement (RH & LH)	32.	Front side member center closing plate (RH & LH)	33.	Front side member rear extension (RH & LH)	_		
34.	Front side member outrigger assembly (RH & LH)	35.	Rear seat crossmember	36.	Rear seat crossmember (RH & LH)	E		
37.	2nd rear crossmember	38.	Rear crossmember center assembly	39.	Rear side member assembly (RH & LH)	F		
40.	Rear side member extension (RH & LH)							
	Both sided anti-corrosive precoated	steel	sections			G		
	High strength steel (HSS) sections							
	Both sided anti-corrosive steel and HSS sections							
NOTE:	NOTE:							
For the	For the parts without a number described in the figure, it is supplied only with the assembly part 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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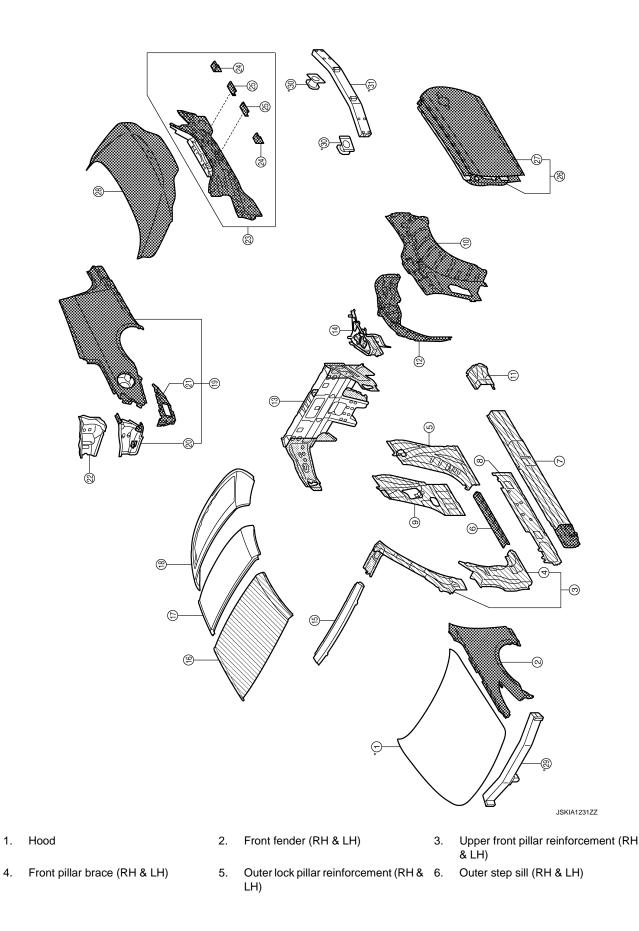
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< PREPARATION >

Body Component Parts

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2009 G37 Convertible

BODY COMPONENT PARTS

< PREPARATION >

7.	Outer sill reinforcement (RH & LH)	8.	Lower front pillar reinforcement as- sembly (RH & LH)	9.	Inner lock pillar (RH & LH)	А
10.	Outer rear wheelhouse (RH & LH)	11.	Outer rear wheelhouse extension (RH & LH)	12.	Inner rear wheelhouse (RH & LH)	
13.	Seat back support	14.	Inner rear wheelhouse reinforce- ment (RH & LH)	15.	Roof assembly	В
16.	Front roof assembly	17.	Center roof assembly	18.	Rear roof assembly	
19.	Rear fender assembly (RH & LH)	20.	Rear combination lamp base (RH & LH)	21.	Rear fender extension (RH & LH)	С
22.	Rear lamp bracket reinforcement as- sembly (RH & LH)	23.	Rear panel assembly	24.	Rear bumper fascia center bracket	
25.	Rear bumper fascia bracket	26.	Door assembly (RH & LH)	27.	Outer door panel (RH & LH)	D
28.	Trunk lid	29.	Inner center front bumper reinforce- ment	30.	Rear bumper stay (RH & LH)	
31.	Inner center rear bumper reinforce- ment assembly					E
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.						

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< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION CORROSION PROTECTION

Description

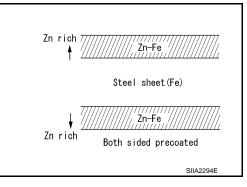
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To provide improved corrosion prevention, the following anti-corrosive measures have been implemented in NISSAN production plants. When repairing or replacing body panels, it is necessary to use the same anti-corrosive measures.

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.



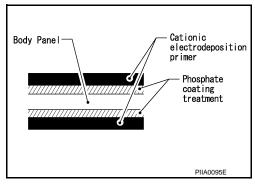
Nissan Genuine Service Parts are fabricated from galvannealed steel. Therefore, it is recommended that GENUINE NISSAN PARTS or equivalent be used for panel replacement to maintain the anti-corrosive performance built into the vehicle at the factory.

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.



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

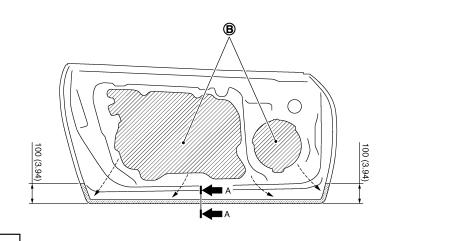
Anti-corrosive Wax

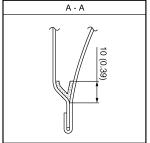
To improve corrosion resistance, anti-corrosive wax is applied inside the body sill and inside other closed sections. Accordingly, when replacing these parts, be sure to apply anti-corrosive wax to the appropriate areas of the new parts. Select an excellent anti-corrosive wax which will penetrate after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

DOOR

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< REMOVAL AND INSTALLATION >





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B. Nozzle insert hole

Unit: mm (in)

Anti-corrosive wax coated portions

REAR FENDER

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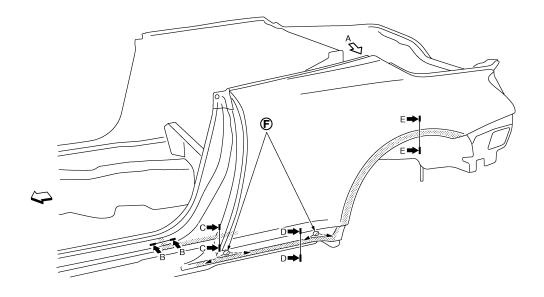
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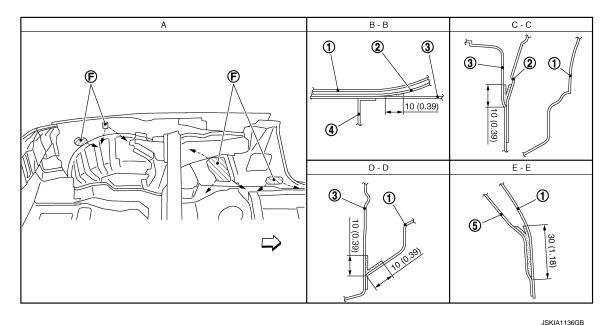
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< REMOVAL AND INSTALLATION >





- 1. Rear fender
- 4. Outer sill brace
- F. Nozzle insert hole

Unit: mm (in)

C: Vehicle front

: Anti-corrosive wax coated portions

Undercoating

2. Lock pillar reinforcement

- 5. Outer rear wheelhouse
- 3. Outer sill reinforcement

INFOID:000000004373182

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.

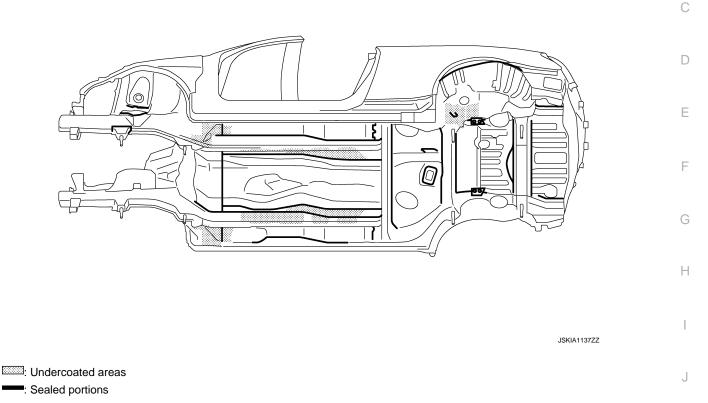
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< REMOVAL AND INSTALLATION >

- 3. Never undercoat rotating parts.
- 4. Apply bitumen wax after applying undercoating.
- 5. After putting seal on the vehicle, put undercoating on it.



Body Sealing

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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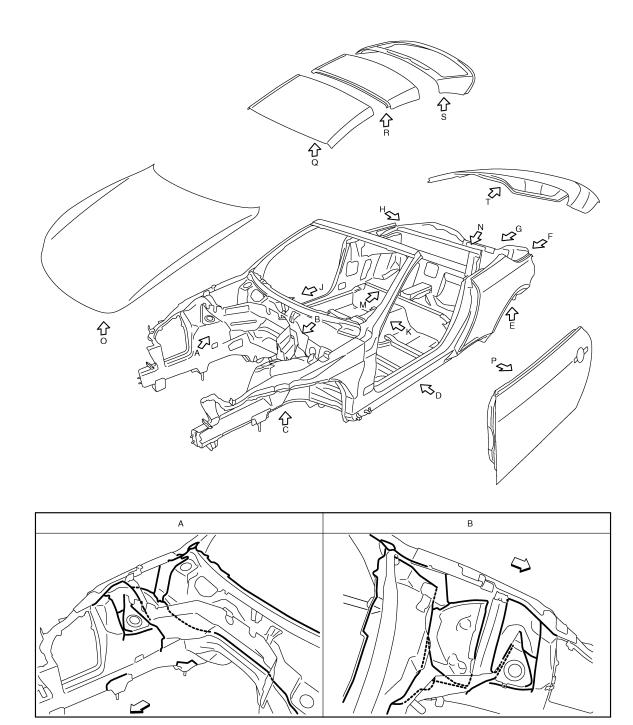
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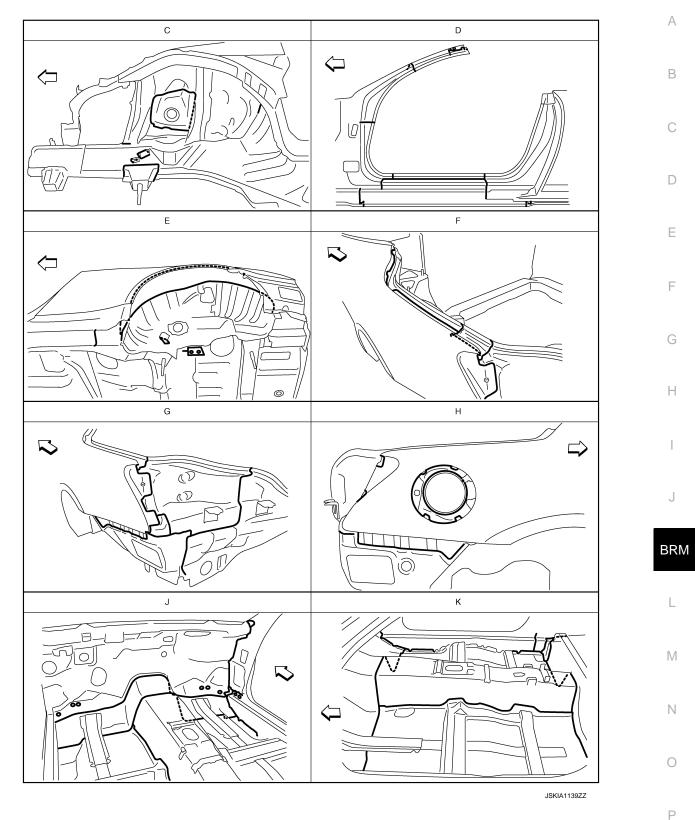
< REMOVAL AND INSTALLATION >



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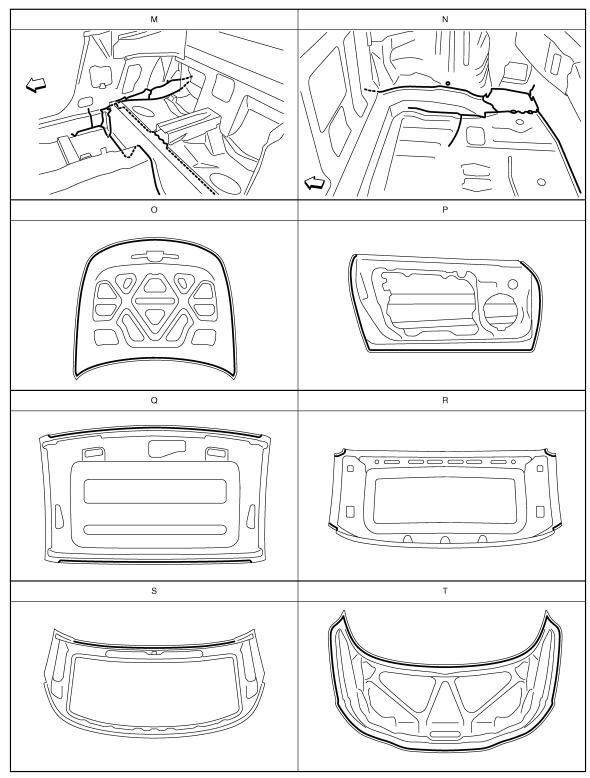
C: Vehicle front Sealed portions

< REMOVAL AND INSTALLATION >



C: Vehicle front Sealed portions

< REMOVAL AND INSTALLATION >



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Vehicle front
Sealed portions

< REMOVAL AND INSTALLATION >

BODY CONSTRUCTION

Body Construction

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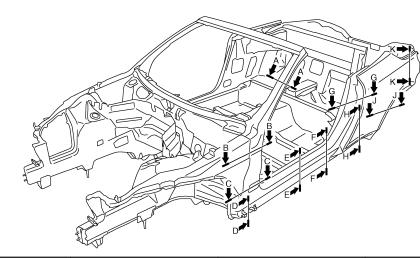
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J - J	К-К		

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Outer front pillar reinforcement

- 1. Upper outer front pillar
- 4. Upper inner front pillar
- 7. Upper hinge plate
- 2. Outer front pillar
- 5. Front pillar hinge brace
- 8. Hoodledge reinforcement

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Weld nut

Upper hoodledge

2009 G37 Convertible

BODY CONSTRUCTION

< REMOVAL AND INSTALLATION >

10.	Upper dash	11.	Upper rear hoodledge	12.	Weld bolt
13.	Rear hoodledge reinforcement	14.	Lower hinge plate	15.	Hoodledge reinforcement gusset
16.	Lower dash crossmember	17.	Outer front sill brace	18.	Lower front pillar reinforcement
19.	Inner sill reinforcement	20.	Front side member outrigger	21.	Inner front sill reinforcement
22.	Lower dash	23.	Lower front pillar gusset	24.	Outer sill reinforcement
25.	Center sill reinforcement	26.	Inner sill	27.	Front floor
28.	2nd crossmember	29.	Outer sill brace	30.	Outer sill step
31.	Lock pillar reinforcement	32.	Rear fender	33.	Striker plate
34.	Inner lock pillar	35.	Upper inner lock pillar reinforcement	36.	Rear tie down hook bracket
37.	Rear tie down hook bracket	38.	Rear side member front reinforce- ment	39.	Rear seat crossmember
40.	Rear seat crossmember reinforce- ment	41.	Rear floor front	42.	Outer rear wheelhouse
43.	Inner rear wheelhouse reinforce- ment	44.	Inner rear wheelhouse	45.	Lower rear window regulator bracket
46.	Nut plate	47.	Upper rear fender extension	48.	Center outer body side reinforce- ment

Rear Fender Hemming Process

INFOID:000000005110944

- 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:

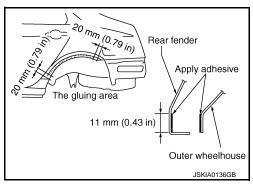
Ensure that the area that is to be glued around the outer wheelhouse is undamaged or defaced.

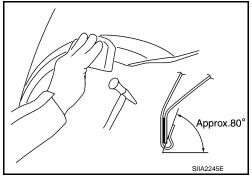
PROCEDURE OF THE HEMMING PROCESS

- 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.



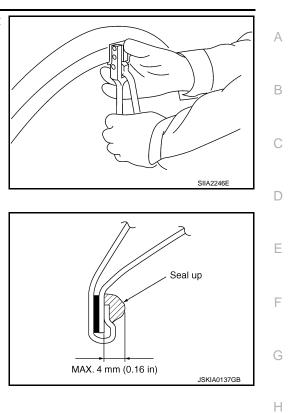


BODY CONSTRUCTION

< 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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Revision: 2010 March

< REMOVAL AND INSTALLATION >

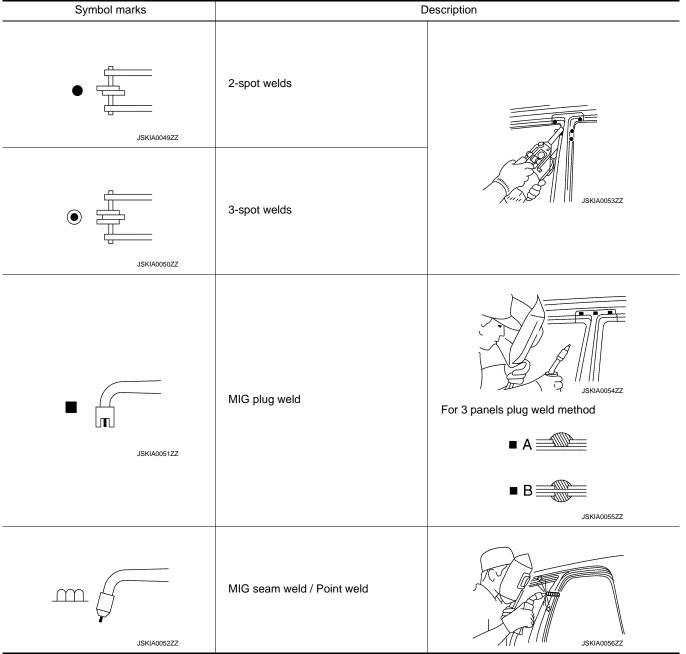
REPLACEMENT OPERATIONS

Description

INFOID:000000004373192

- 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 Body Repair Manual (Fundamentals) in order to ensure that the original functions and quality of the vehicle can be maintained. The Body Repair Manual (Fundamentals) contains additional information, including cautions and warning, that are not including in this manual. Technicians should refer to both manuals to ensure proper repairs.
- Please note that these information are 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. Refer to the front pillar section.
- А В PIIA015 D . 60 mm Locating (2.36 in)F indent Outer front pillar B Inner front pillar Record distance JSKIA0104GB Н Inner front pillar Approx. 2 mm (0.08 in) Notch Cutting jig ∠Outer front pillar BRM JSKIA0105GE L Μ 4
- 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 inner front pillar cut position.

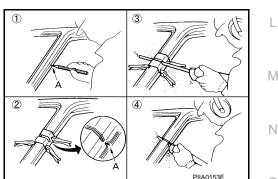
 Prepare a cutting jig to make outer pillar easier to cut. Also, this will permit service part to be accurately cut at joint position.

- An example of cutting operation using a cutting jig is as follows.
- 1. 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.

REAR FENDER HEMMING PROCESS

5. Cut inner pillar at position B in same manner.





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

In order to hem the wheel arch, it is necessary to repair any damaged or defaced parts around outer

1. A wheel arch is to be installed and hemmed over left and right outer wheel house.

Procedure of the hemming process

P

wheel house.

2.

< REMOVAL AND INSTALLATION >

- Peel off old bonding material on the surface of 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 outer wheelhouse and rear fender.

<Adhesive> 3M automix panel bond 8115, or any equivalents

- 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.

• 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.

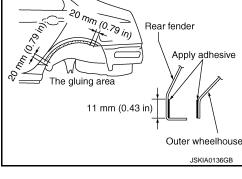
FOAM REPAIR

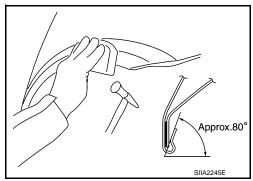
During factory body assembly, foam insulators are installed in certain body panels and locations around the vehicle. Use the following procedure (s) to replace any factory-installed foam insulators.

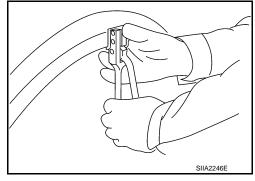
Urethane foam applications

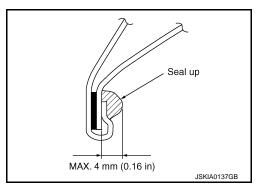
Use commercially available spray foam for sealant (foam material) repair of material used on vehicle. Read instructions on product for fill procedures.

- 1. Fill procedures after installation of service part.
- Remove foam material remaining on vehicle side.
- Clean area in which foam was removed.
- Install service part.



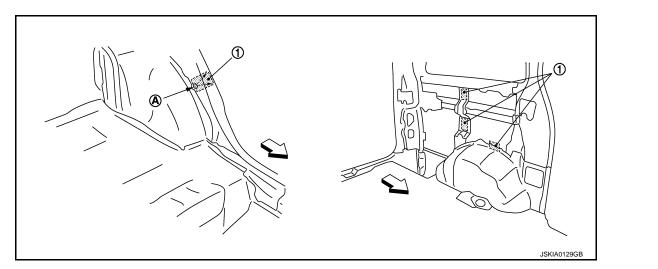






< REMOVAL AND INSTALLATION >

 Insert nozzle into hole near fill area and fill foam material or fill in enough to close gap with the service part.



- 1. Urethane foam
- A. Nozzle insert hole
- 2. Fill procedures before installation of service part.
- Remove foam material remaining on vehicle side.
- Clean area in which foam was removed.
- Fill foam material on wheelhouse outer side.
 - 1. Urethane foam
 - A. Fill while avoiding flange area

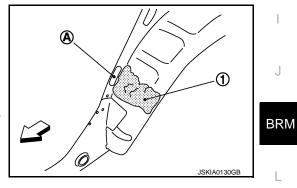
NOTE:

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

Install service part.

NOTE:

Refer to label for information on working times.





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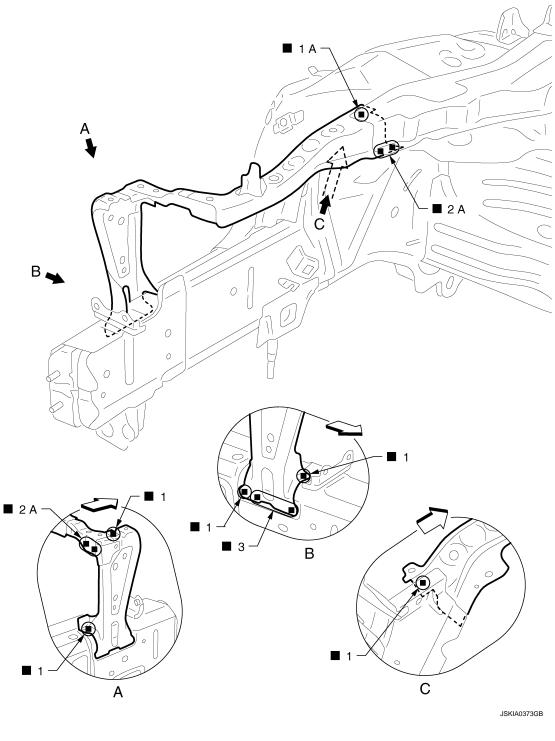
0

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< REMOVAL AND INSTALLATION >

Radiator Core Support

INFOID:000000004373193



C: Vehicle front

Replacement parts

- Radiator core support assembly (LH) •
- Front side member connector as-

Hoodledge

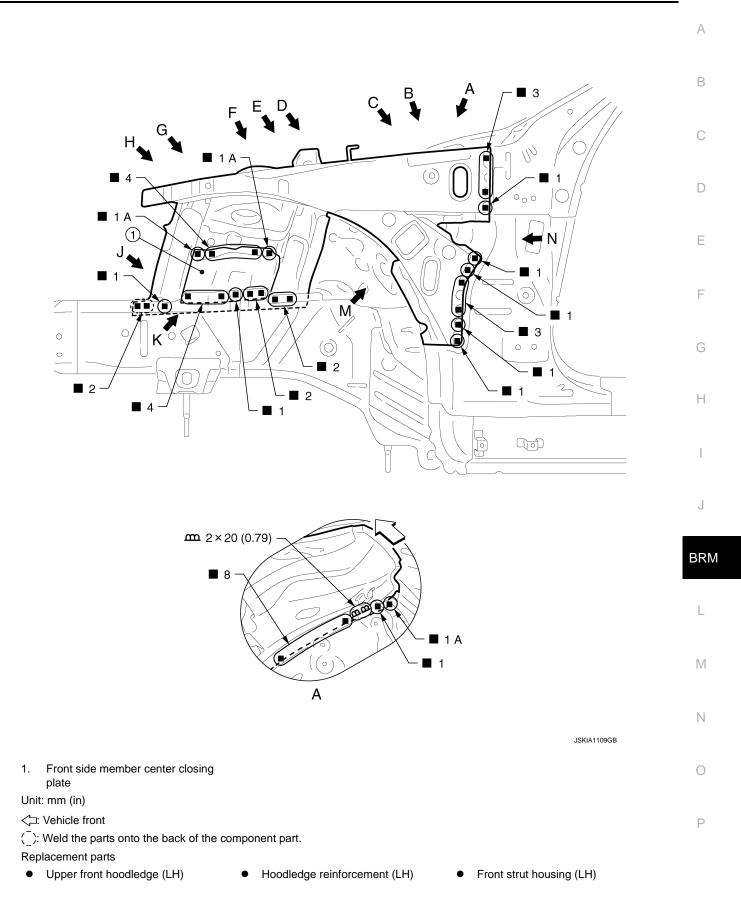
sembly (LH)

INFOID:000000004373194

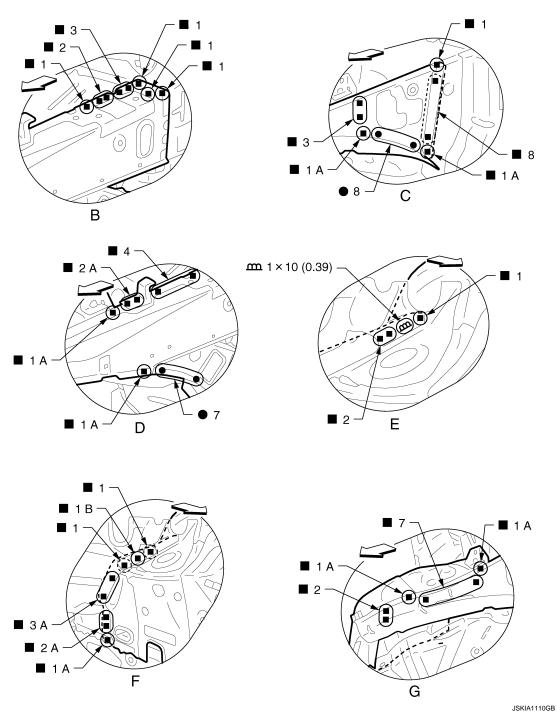
Work after radiator core support is removed. Remove the front side member center closing plate (reusable).



< REMOVAL AND INSTALLATION >



< REMOVAL AND INSTALLATION >



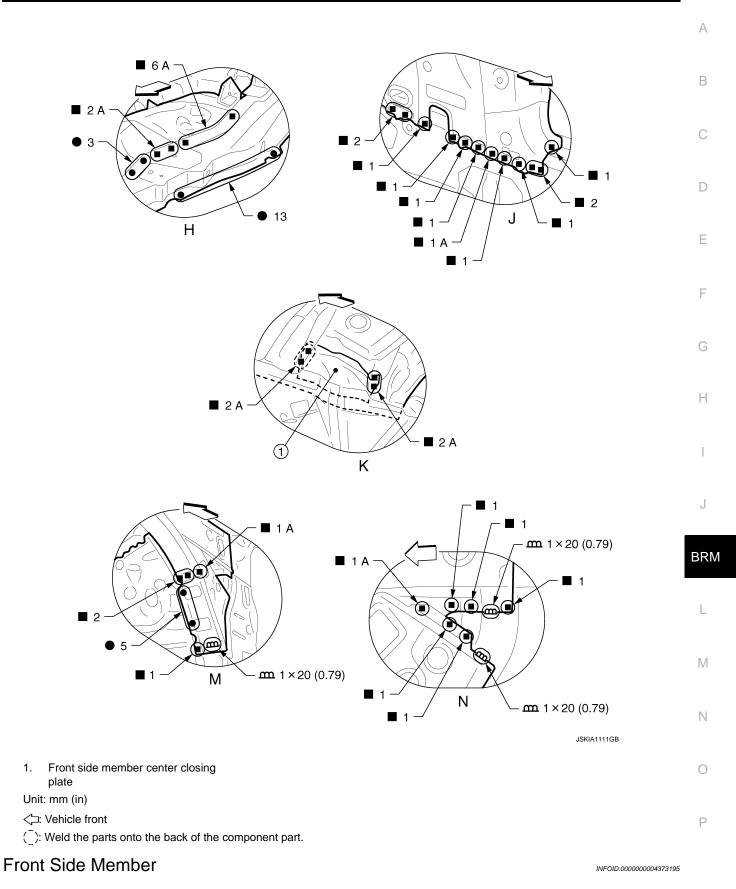
Unit: mm (in)

<□: Vehicle front

(): Weld the parts onto the back of the component part.

View C and G: Before installing hoodledge reinforcement

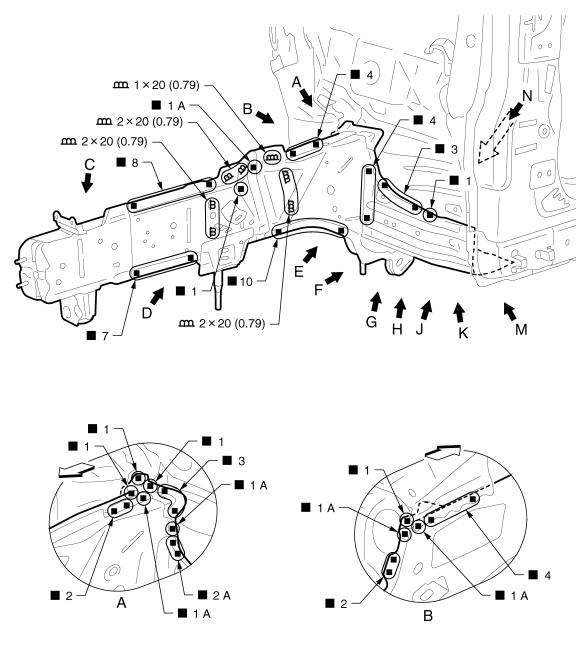
< REMOVAL AND INSTALLATION >



Work after radiator core support and hoodledge are removed. Remove the front side member center closing plate (reusable) from the service part "front side member closing plate assembly" for easier installation of hoodledge.

BRM-29

< REMOVAL AND INSTALLATION >



JSKIA1112GB

Unit: mm (in)

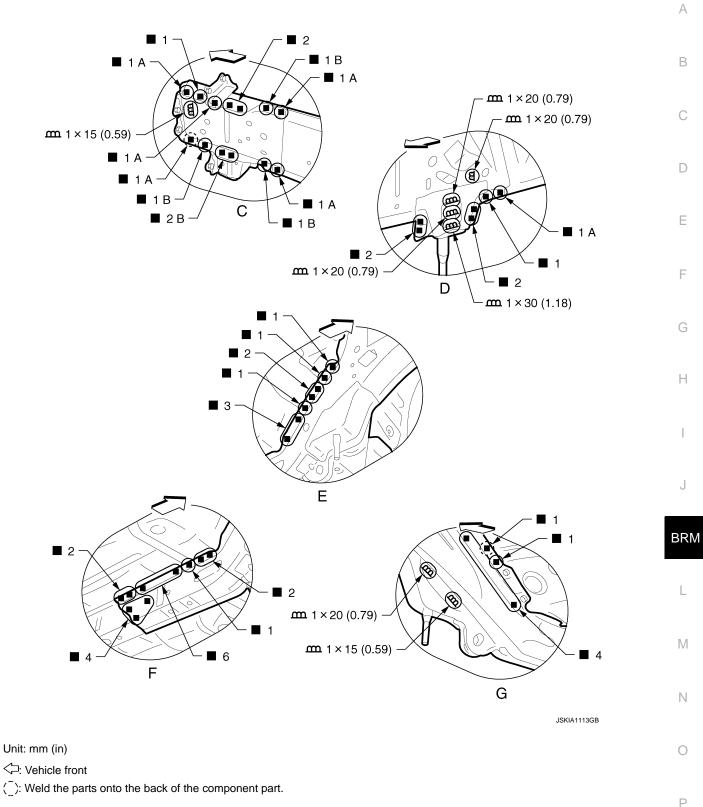
C: Vehicle front

Replacement parts

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

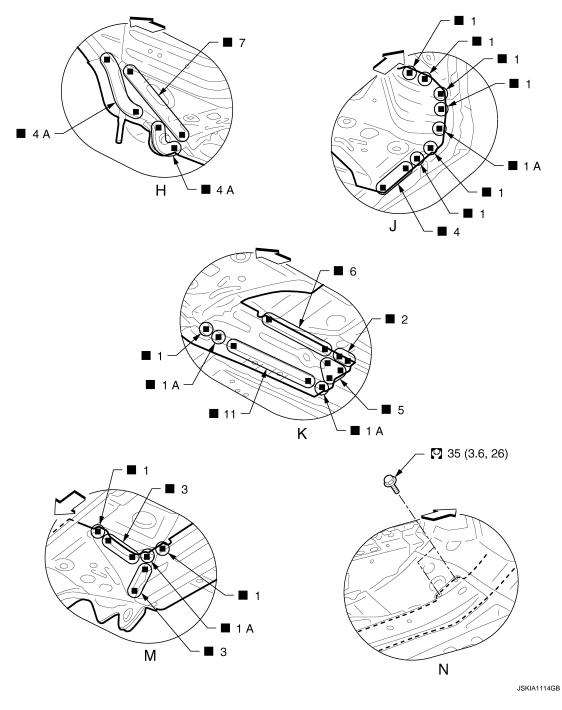
 Front side member outrigger assembly (LH)

< REMOVAL AND INSTALLATION >



View G: Before installing front side member outrigger assembly

< REMOVAL AND INSTALLATION >

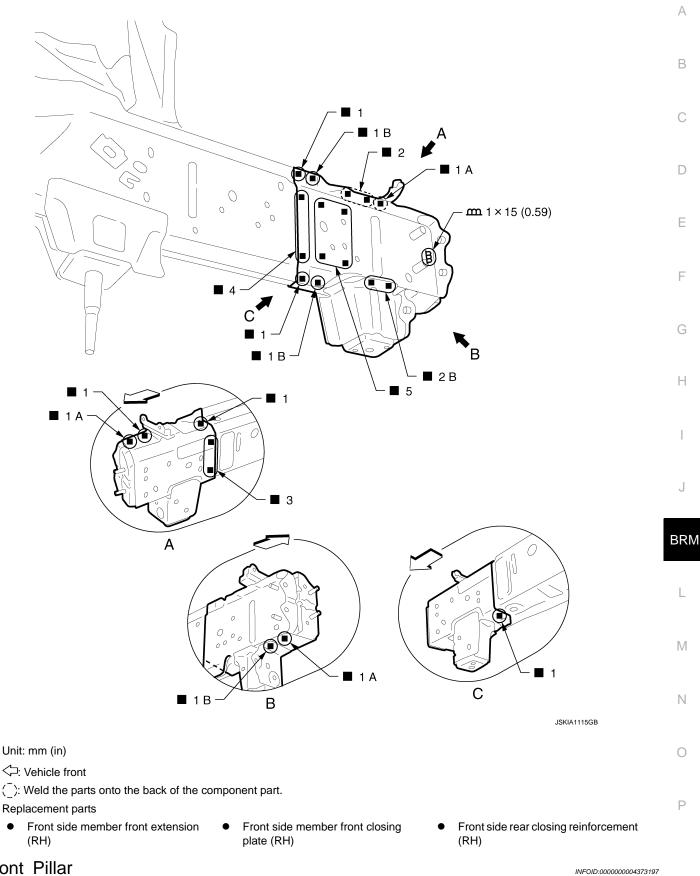


←: Vehicle front Refer to <u>GI-4, "Components"</u> for symbols in the figure.

Front Side Member (Partial Replacement)

Work after radiator core support is removed.

< REMOVAL AND INSTALLATION >

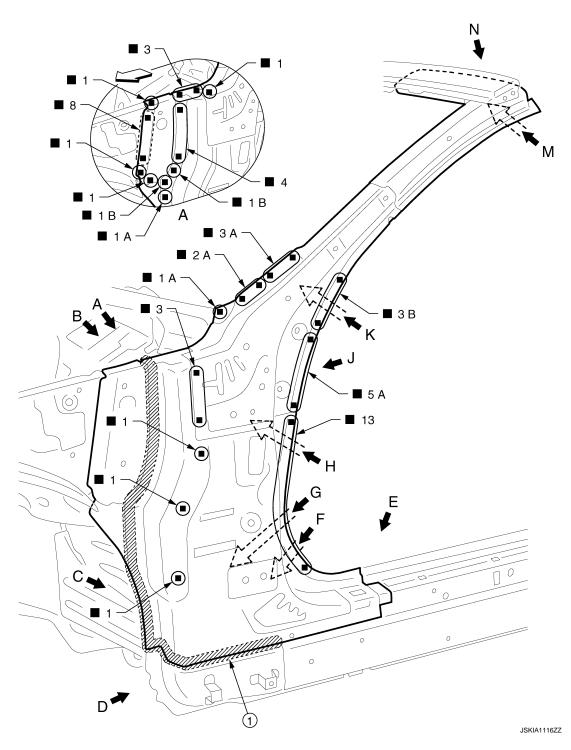


Front Pillar

Work after hoodledge reinforcement and outer step sill are removed.

BRM-33

< REMOVAL AND INSTALLATION >



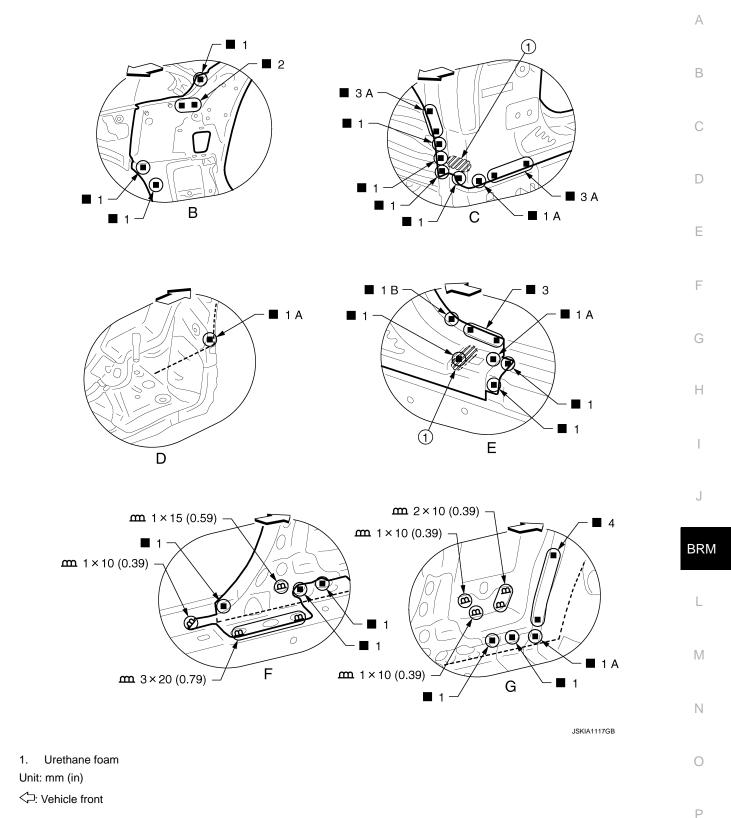
- 1. Body sealing
- C: Vehicle front

 $\langle \hat{ } \rangle$: Weld the parts onto the back of the component part.

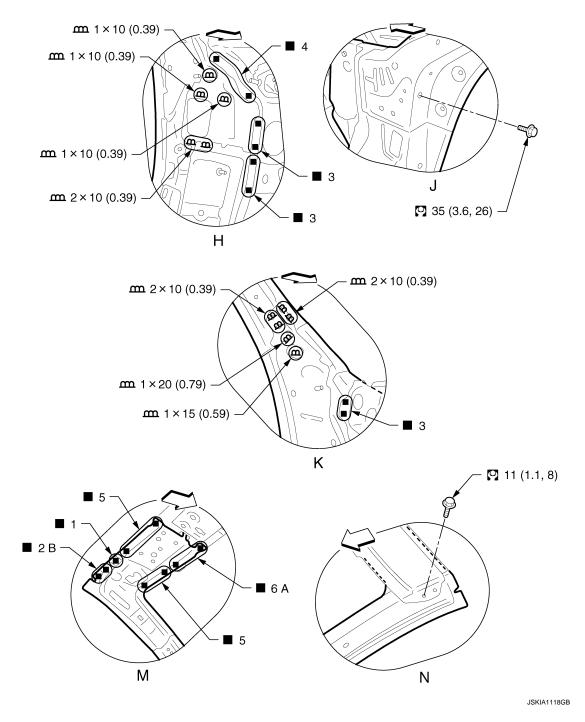
Replacement parts

• Upper front pillar reinforcement (LH) • Upper rear hoodledge (LH)

< REMOVAL AND INSTALLATION >



View B: Before installing upper front pillar reinforcement



Unit: mm (in)

C: Vehicle front

Refer to <u>GI-4, "Components"</u> for symbols in the figure.

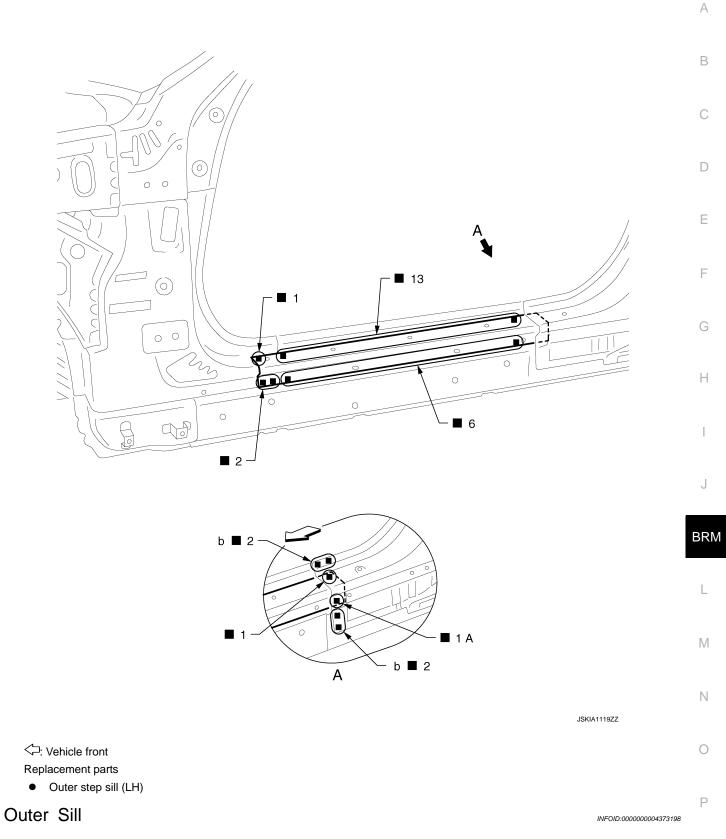
Outer Step Sill

Remove the welding point "b" for easier replacement.

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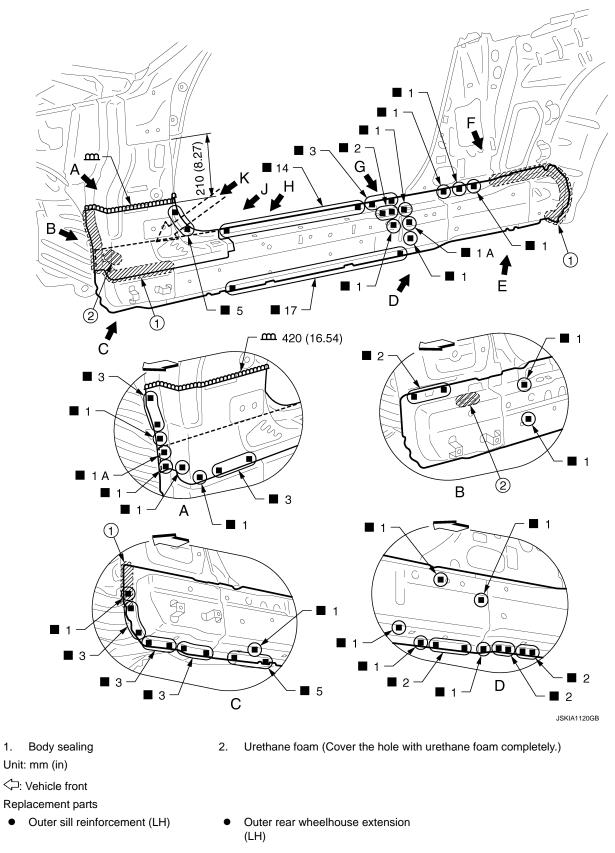
INFOID:000000005038923

< REMOVAL AND INSTALLATION >



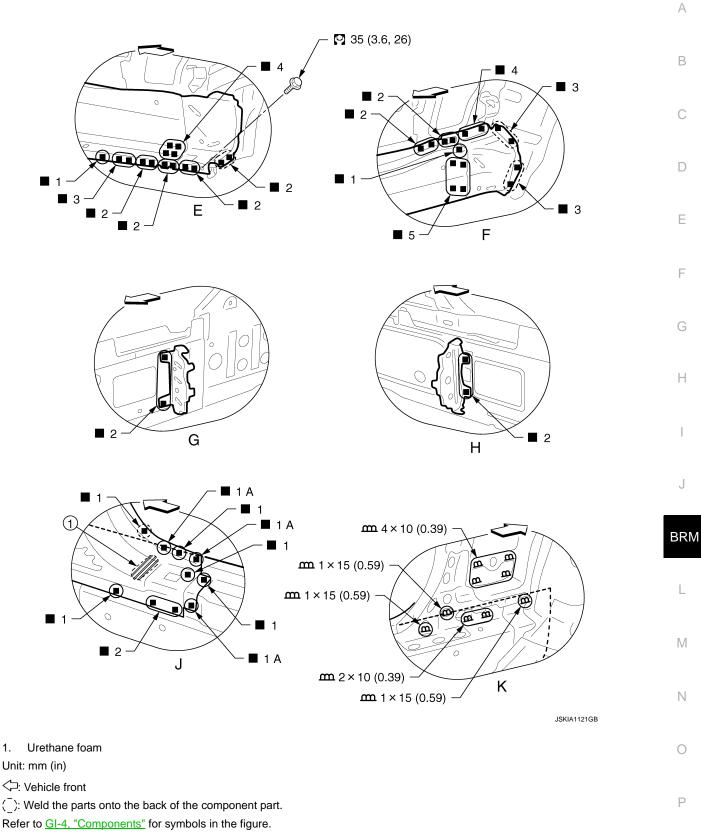
Work after hoodledge reinforcement, outer step sill, outer lock pillar reinforcement and rear fender are removed. Remove the front pillar brace (reusable).

< REMOVAL AND INSTALLATION >



View B and C: Before installing front pillar brace

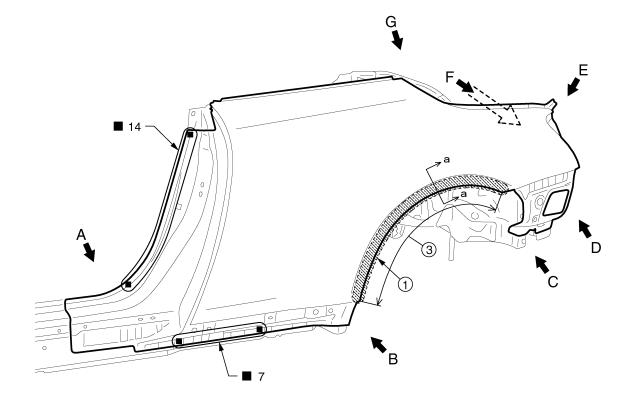
< REMOVAL AND INSTALLATION >

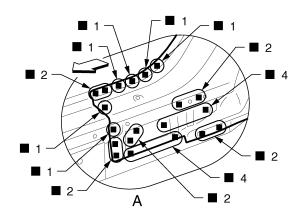


View G and H: Before installing front pillar brace and outer sill reinforcement

< REMOVAL AND INSTALLATION >

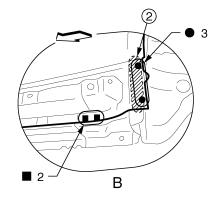
INFOID:000000004373199





2.

Body sealing



JSKIA1122ZZ

3. Hemming portion

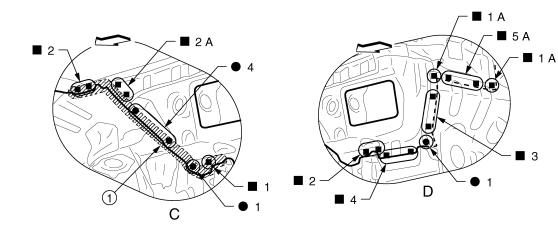
1. Adhesive

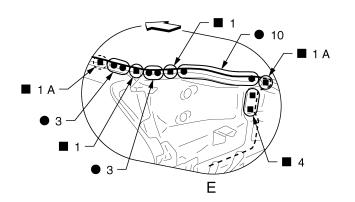
<□: Vehicle front

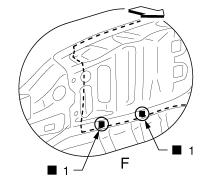
Replacement parts

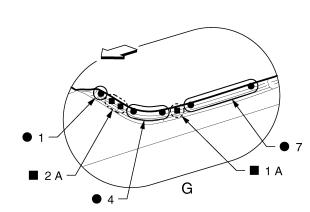
• Rear fender assembly (LH)

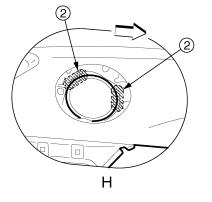
< REMOVAL AND INSTALLATION >











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1. Body sealing

2. Adhesive

<⊐: Vehicle front

 $\langle \bar{\ }\rangle$: Weld the parts onto the back of the component part.

View H: Right side rear fender

POINT



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< REMOVAL AND INSTALLATION >

- Perform the hemming to the flange of wheelarch after applying the adhesive.
- Apply the sealing to the flange end.
- Refer to BRM-20, "Rear Fender Hemming Process".
 - 1. Outer rear wheelhouse
 - 2. Rear fender
 - 3. Adhesive
 - 4. Sealant

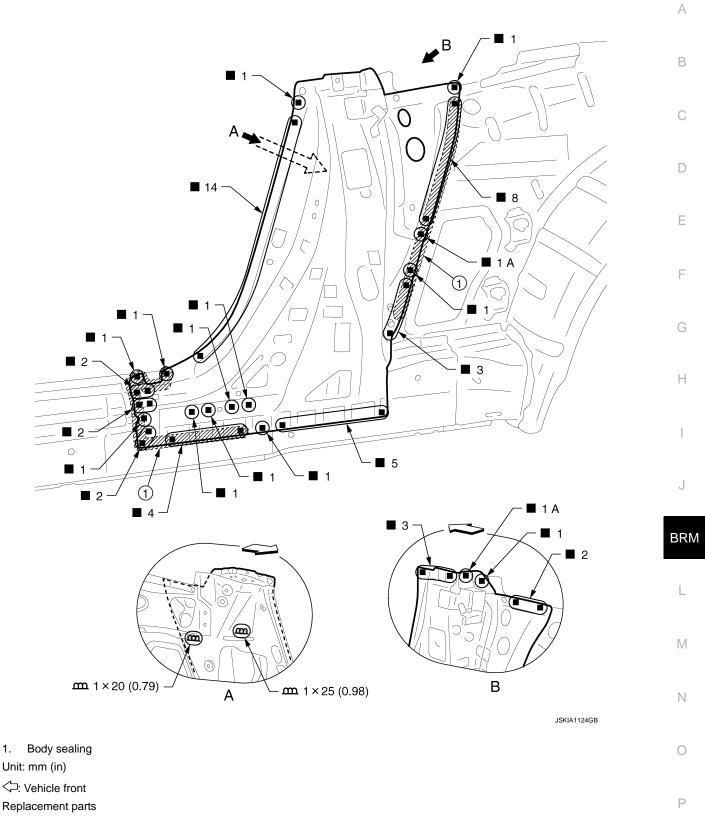
a - a 1 2 a - a 1 3 4 3 JSKIA0204GB

Lock Pillar Reinforcement

Work after rear fender is removed.

INFOID:000000004373200

< REMOVAL AND INSTALLATION >

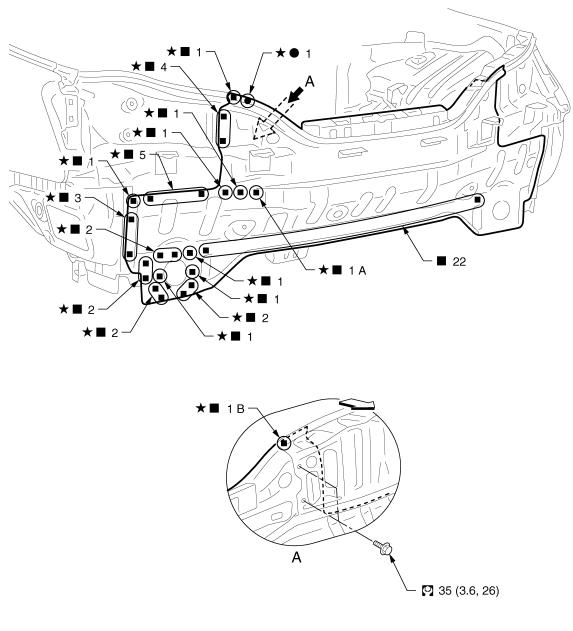


• Outer lock pillar reinforcement (LH)

< REMOVAL AND INSTALLATION >

Rear Panel

INFOID:000000004373203



JSKIA1125GB

C: Vehicle front

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

Refer to <u>GI-4, "Components"</u> for symbols in the figure. Replacement parts

Rear panel assembly

Rear Floor Rear

Work after rear panel is removed.

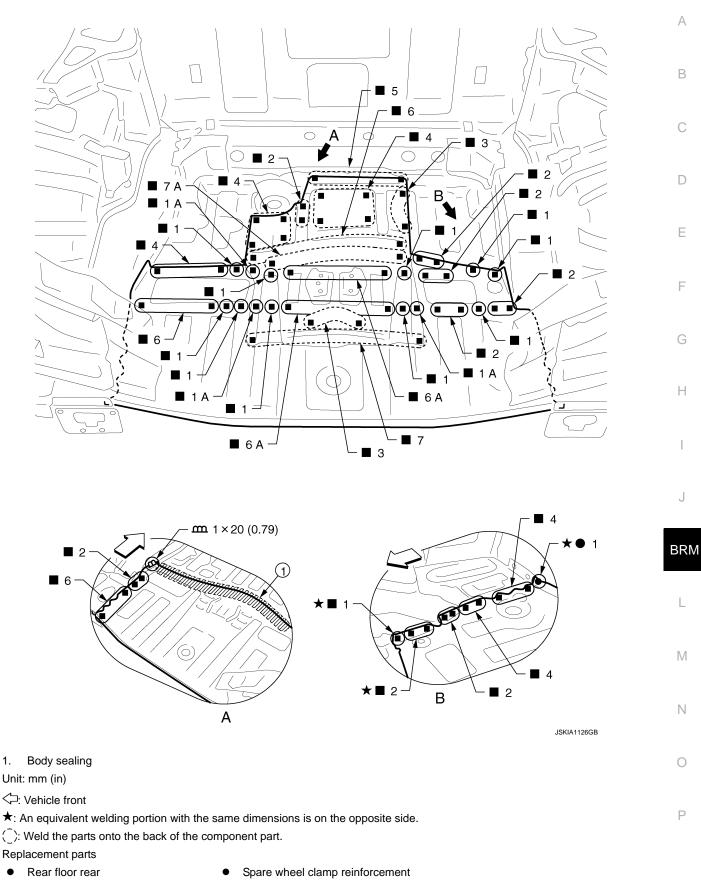
Revision: 2010 March



2009 G37 Convertible

INFOID:000000004373204

REPLACEMENT OPERATIONS < REMOVAL AND INSTALLATION >



View A: Before installing spare wheel clamp reinforcement

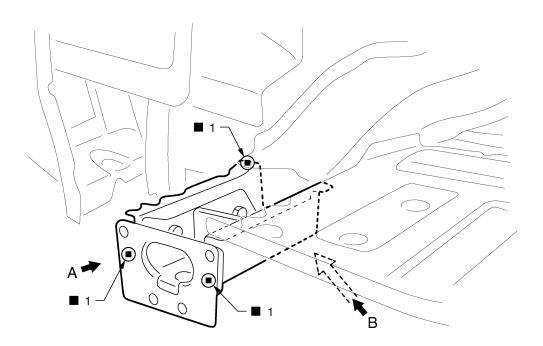
BRM-45

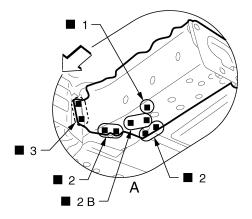
< REMOVAL AND INSTALLATION >

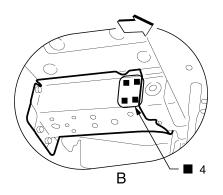
Rear Side Member Extension (LH)

INFOID:000000004373205

Work after rear panel and rear floor side (LH) are removed.







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C: Vehicle front

 $\langle \hat{\} \rangle$: Weld the parts onto the back of the component part. Replacement parts

• Rear side member extension (LH)

Rear Side Member Extension (RH)

Work after rear panel is removed.

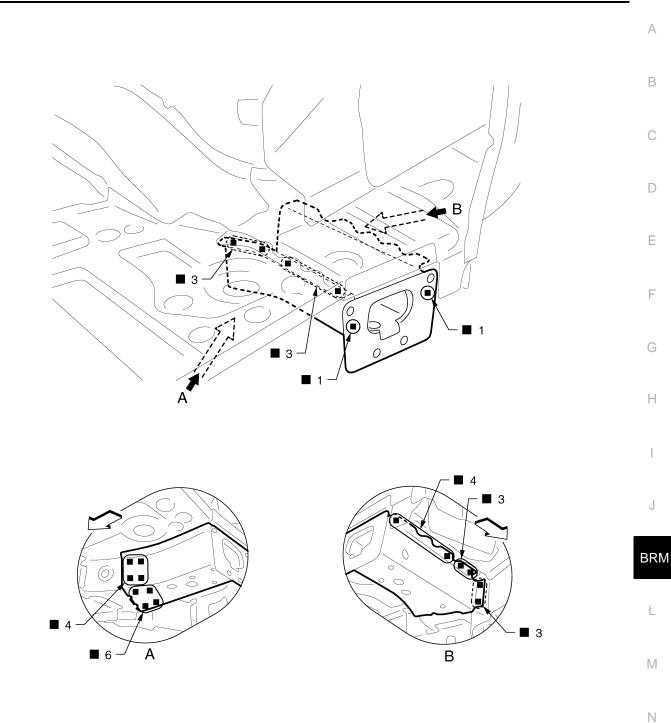
INFOID:000000005038924

Revision: 2010 March



2009 G37 Convertible

< REMOVAL AND INSTALLATION >



Vehicle front
 Weld the parts onto the back of the component part.
 Replacement parts
 Rear side member extension (RH)

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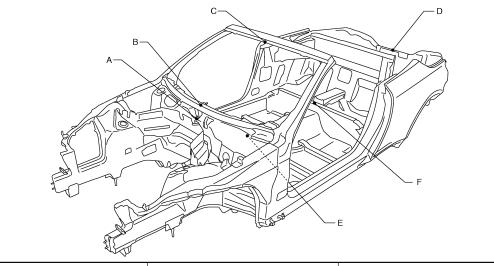
SERVICE DATA AND SPECIFICATIONS (SDS)

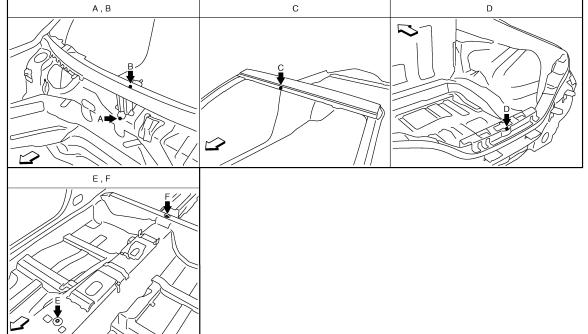
BODY ALIGNMENT

Body Center Marks

INFOID:000000004373185

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.





JSKIA1097ZZ

C: Vehicle front

Unit: mm (in)

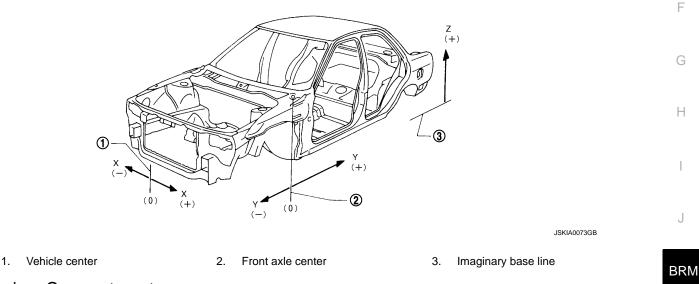
Points	Portion	Marks		
А, В	Upper dash	Embossment		
С	Roof	Embossment		
D	Rear panel	Indent		

< SERVICE DATA AND SPECIFICATIONS (SDS)

	Points	Portion	Marks	
Е		Trans control reinforcement	Hole	A
F		Rear seat crossmember reinforcement	Hole	

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)]



Engine Compartment

Measurement

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

L

INFOID:00000000494667

В

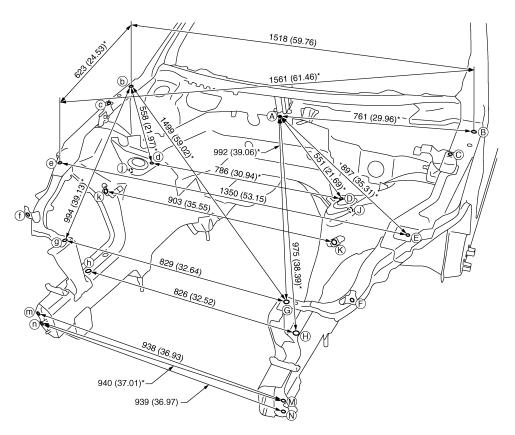
Ε

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BODY ALIGNMENT < SERVICE DATA AND SPECIFICATIONS (SDS)



JSKIA1098GB

Unit: mm (in)

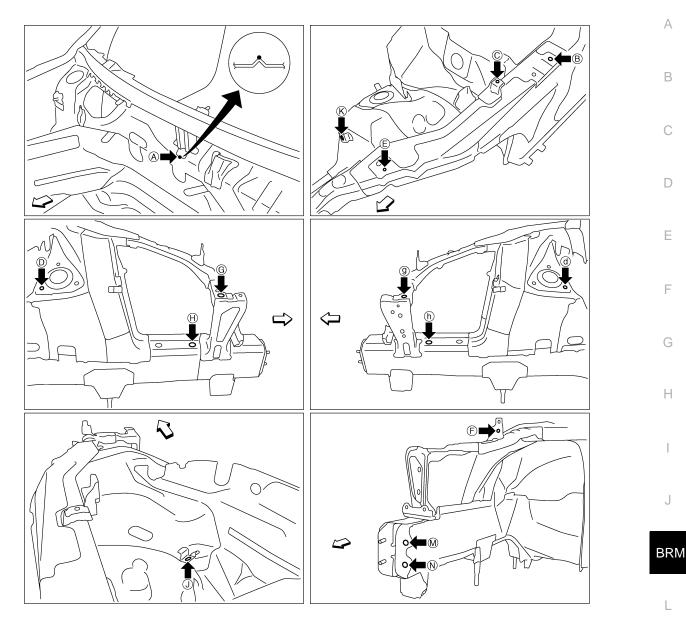
«The others»

Unit: mm (in)

Point	Dimension	Memo	Point	Dimension	Memo	Point	Dimension	Memo	Point	Dimension	Memo
A - C	744 (29.29)*		B - d	1227 (48.31)*		E - g	1135 (44.68)*		J - j	903 (35.55)*	
A - F	1057 (41.61)*		С-с	1427 (56.18)*		F-f	1199 (47.20)*				
B - C	227 (8.94)*		D - k	875 (34.45)*		F - G	192 (7.56)*				
В-с	1490 (58.66)*		E - G	412 (16.22)*		F - g	1015 (39.96)*				

Measurement Points

< SERVICE DATA AND SPECIFICATIONS (SDS)



JSKIA1099ZZ

C: Vehicle front

Point Material Point Material Ν Upper dash positioning mark of center position-Radiator core stay installing hole center \$15 А G, g ing mark (0.59)B, b Hood hinge installing hole center $\phi 9$ (0.35) H, h Front side member hole center ϕ 20 (0.79) Ο C, c, F, f Front fender installing hole center ϕ 7 (0.28) J, j, K, k Nut holder hole center \$16 (0.63) Front bumper reinforcement installing hole center D, d Front strut installing hole center ϕ 11 (0.43) M, m, N, n Ρ ¢11 (0.43) E, e Hoodledge reinforcement hole center \$\$\operatorname{6}\$ (0.24)

Underbody

INFOID:000000004946702

Unit: mm (in)

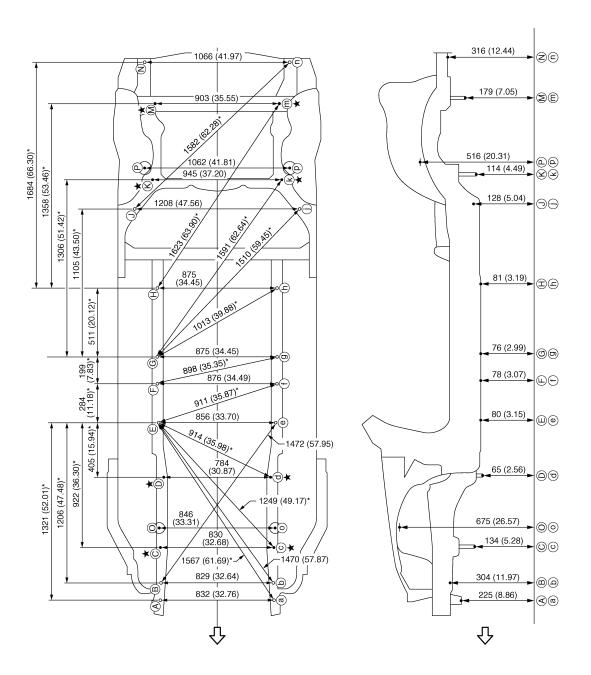
Μ

Measurement

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

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2009 G37 Convertible



JSKIA1100GB

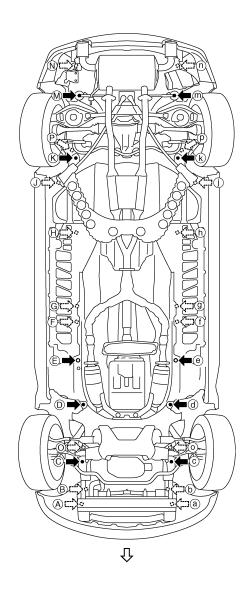
Unit: mm (in)

∵ Vehicle front

★: Bolt head

Measurement Points

BODY ALIGNMENT < SERVICE DATA AND SPECIFICATIONS (SDS)



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Chicle front

< SERVICE DATA AND SPECIFICATIONS (SDS)

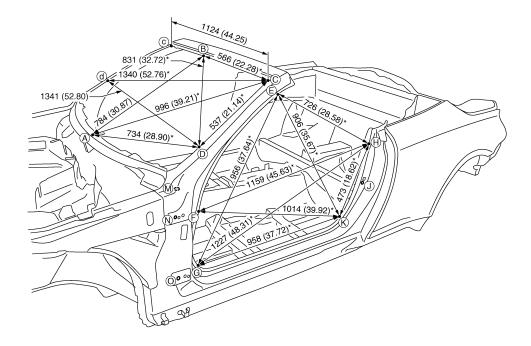
		Coordinates					Unit: mm (in)		
Points				Remarks	Points		Coordinates		Remarks
	Х	Y	Z			Х	Y	Z	
A, a	±416.0 (±16.378)	-496.0 (-19.528)	224.5 (8.839)	Hole	H, h	±437.5 (±17.224)	1810.0 (71.260)	81.2 (3.197)	Hole
В	416.2 (16.386)	-368.0 (-14.488)	303.5 (11.949)	Hole	J, j	±604.0 (±23.779)	2390.5 (94.114)	128.3 (5.051)	Hole
b	-413.0 (-16.260)	-368.0 (-14.488)	303.5 (11.949)	Hole	K, k	±472.6 (±18.606)	2603.8 (102.512)	114.0 (4.488)	Bolt head
C, c	±415.0 (±16.339)	-104.0 (-4.094)	133.5 (5.256)	Bolt head	M, m	±451.5 (±17.776)	3163.9 (124.563)	179.1 (7.051)	Bolt head
D, d	±392.0 (±15.433)	414.0 (16.299)	64.5 (2.539)	Bolt head	N, n	±533.0 (±20.984)	3475.0 (136.811)	316.4 (12.457)	Hole
E, e	±428.0 (±16.850)	816.6 (32.150)	80.0 (3.150)	Hole 16×18 (0.63×0.71)	О, о	±423.0 (±16.654)	38.0 (1.496)	674.5 (26.555)	Hole
F, f	±438.0 (±17.244)	1100.0 (43.307)	78.0 (3.071)	Hole	P, p	±531.2 (±20.913)	2692.7 (106.012)	515.6 (20.299)	Hole
G, g	±437.5 (±17.224)	1299.0 (51.142)	76.0 (2.992)	Hole					

Passenger Compartment

INFOID:000000004946818

Measurement

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



JSKIA1102GB

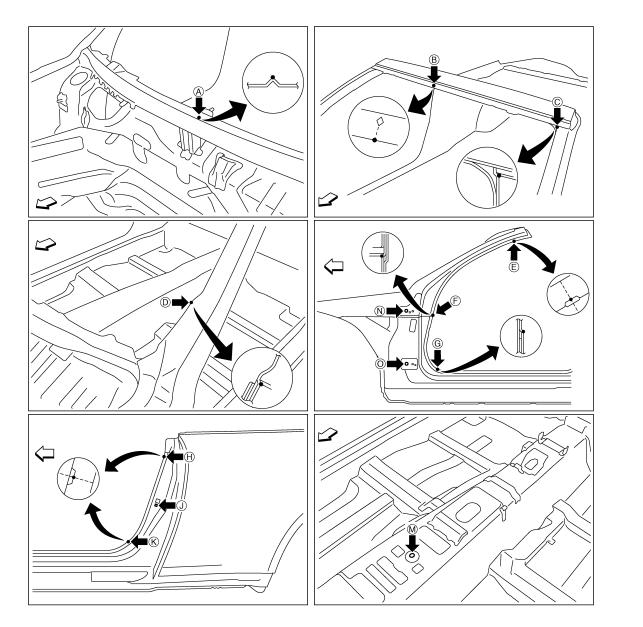
Unit: mm (in)

< SERVICE DATA AND SPECIFICATIONS (SDS)

«The	others»
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										Uni	t: mm (in)	А
Point	Dimension	Memo	1									
E - e	1227 (48.31)		F - k	1769 (69.65)*		K - k	1451 (57.13)		N - H	1309 (51.54)*		I
E - g	1637 (64.45)*		G - g	1440 (56.69)		M - E	1015 (39.96)*		N - J	1277 (50.28)*		В
E - h	1519 (59.80)*		G - h	1896 (74.65)*		M - F	772 (30.39)*		N - K	1174 (46.22)*		I
E - k	1613 (63.50)*		G - k	1734 (68.27)*		M - G	736 (28.98)*		0 - H	1372 (54.02)*		С
F - f	1447 (56.97)		H - h	1451 (57.13)		M - H	1300 (51.18)*		0 - J	1283 (50.51)*		C
F - h	1856 (73.07)*		H - k	1526 (60.08)*		M - K	1106 (43.54)*		0 - K	1126 (44.33)*		L

Measurement Points



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Ch: Vehicle front

< SERVICE DATA AND SPECIFICATIONS (SDS)

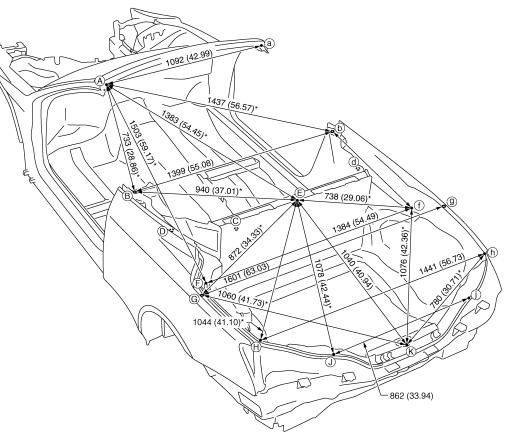
			Unit: mm (in)
Point	Material	Point	Material
А	Upper dash positioning mark of center position- ing mark	G, g	Rear upper hoodledge joggle
В	Roof flange end of center positioning mark	H, h, K, k	Rear fender indent
C, c, D, d	Front pillar joggle	J, j	Door switch installing hole center ϕ 7 (0.28)
E, e	Front pillar indent	M, m	Trans control reinforcement hole center of center positioning mark ϕ 14 (0.55)
F, f	Front pillar hinge brace joggle	N, n, O, o	Door hinge installing hole center ϕ 12 (0.47)

Rear Body

INFOID:000000004946819

Measurement

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



JSKIA1104GB

Unit: mm (in)

«The others»

										Uni	t: mm (in)	
Point	Dimension	Memo										
A - C	1180 (46.46)*		B - d	1392 (54.80)*		C - F	1104 (43.46)*		G - J	748 (29.45)*		
A - D	1110 (43.70)*		B - F	813 (32.01)*		D - d	1266 (49.84)		G - j	1393 (54.84)*		
A - d	1617 (63.66)*		B - f	1612 (63.46)*		D - f	1388 (54.65)*		H - j	1175 (46.26)*		
B - C	836 (32.91)*		C - D	820 (32.28)*		G - H	427 (16.81)*		J - K	445 (17.52)*		
B - D	409 (16.10)*		C - E	805 (31.69)*		G - h	1578 (62.13)*					

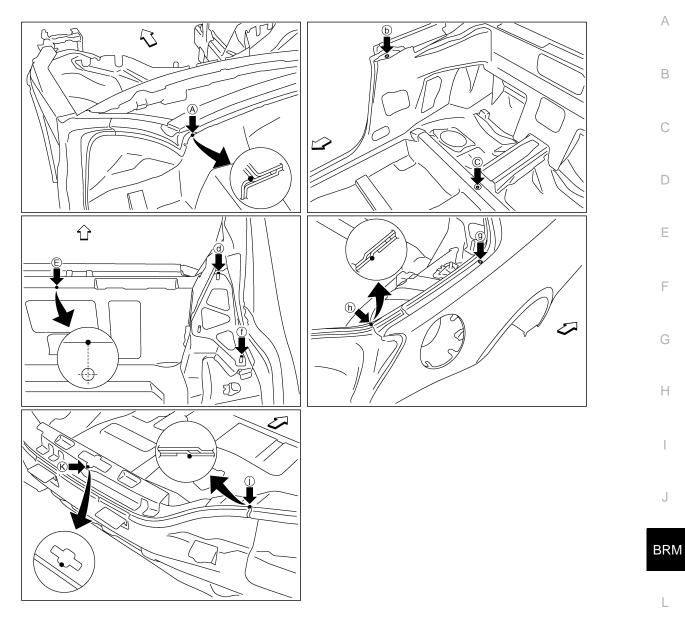
Measurement Points

Revision: 2010 March



2009 G37 Convertible

< SERVICE DATA AND SPECIFICATIONS (SDS)



JSKIA1105ZZ

\mathbb{N}

Unit: mm (in)

Point	Material	Point	Material	
A, a	Upper front pillar joggle	E	Rear seatback support flange end of center posi- tioning mark	
B, b	Lock pillar seat belt anchor hole center $\phi 10$ (0.39)	G, g	Rear fender hole center	0
С	Rear seat crossmember reinforcement hole center of center positioning mark $\phi 5$ (0.20)	H, h, J, j	Rear combination lamp base joggle	
D, d, F, f	Fixing main bearing bolt head	к	Upper rear panel flange end of center positioning mark	Ρ

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C: Vehicle front

LOCATION OF PLASTIC PARTS

< SERVICE DATA AND SPECIFICATIONS (SDS)

LOCATION OF PLASTIC PARTS

Precautions for Plastics

INFOID:000000005169148

Abbre- viation	Material name	Heatresisting temperature °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 harmless if applied for a very short time (wipe out quickly).	Poisonous gas is emitted when burned.
TPO	Thermoplastic Olefine	80 (176)	↑ (Flammable
AAS	Acrylonitrile Acrylic Styrene	85 (185)	Avoid gasoline and solvents.	—
PMMA	Poly Methyl Methacrylate	85 (185)	↑ (—
EVAC	Ethylene Vinyl Acetate	90 (194)	↑ (—
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)	1	Flammable
ASA	Acrylonitrile Styrene Acrylate	100 (212)	\uparrow	Flammable
PPE	Poly Phenylene Ether	110 (230)	↑ (—
TPU	Thermoplastic Urethane	110 (230)	\uparrow	—
PBT+ PC	Poly Butylene Terephthalate + Polycarbonate	120 (248)	Ŷ	Flammable
PC	Polycarbonate	120 (248)	↑ (—
POM	Poly Oxymethylene	120 (248)	\uparrow	Avoid battery acid.
PA	Polyamide	140 (284)	Ŷ	Avoid immersing in wa- ter.
PBT	Poly Butylene Terephthalate	140 (284)	\uparrow	—
PAR	Polyarylate	180 (356)	\uparrow	—
PET	Polyethylene terephthalate	180 (356)	\uparrow	—
PEI	Polyetherimide	200 (392)	1	_

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

INFOID:000000005169147

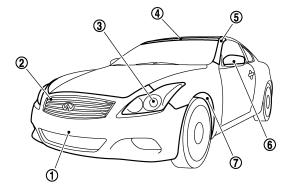
LOCATION OF PLASTIC PARTS

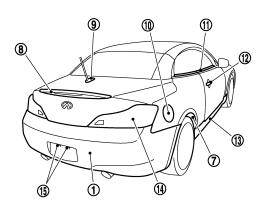
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BRM-58

2009 G37 Convertible

LOCATION OF PLASTIC PARTS < SERVICE DATA AND SPECIFICATIONS (SDS)





JSKIA1258ZZ

	Component		Material		Component		Material
1	Bumper fascia		PP + EPM	8	High mount stop lamp co	ABS	
2	2 Front grille		ABS	9	Satellite radio antenna co	over	PC + ASA
2	Front combination lama	Lens	PC	10	Fuel filler lid		PA + PPE
3	Front combination lamp	Housing	PP	11	Door outside molding		PVC + Stainless
4	Windshield molding		TPO	12	Door outside handle	PC + PET	
5	Front pillar finisher		PC + PET	13	Center mudguard	PP	
		Cover	PP	14	Rear combination lamp	Lens	PMMA
6	Door outside mirror	Housing	ASA	14		Housing	ABS
		Base	PA + Glass fiber	15	Liconco plato lamo	Lens	PMMA
7	Fondor protostor	Front	PP	15	License plate lamp	Housing	PC
1	Fender protector	Rear	PET				

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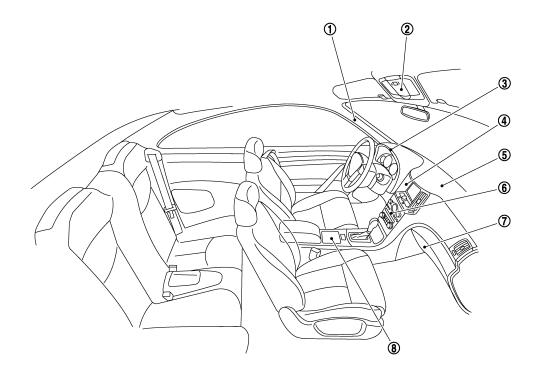
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J

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LOCATION OF PLASTIC PARTS < SERVICE DATA AND SPECIFICATIONS (SDS)



JSKIA1259ZZ

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