

D

Е

F

Н

J

BRM

L

M

Ν

0

Р

CONTENTS

VEHICLE INFORMATION3	
BODY EXTERIOR PAINT COLOR3 Body Exterior Paint Color3	
PRECAUTION4	
PRECAUTIONS	
REPAIRING HIGH STRENGTH STEEL5 High Strength Steel (HSS)5 Handling of Ultra High Strength Steel Plate Parts8	
PREPARATION9	
REPAIRING MATERIAL9 Foam Repair9	
BODY COMPONENT PARTS11	
VR30DDTT 2WD MODELS	
2.0L TURBO GASOLINE ENGINE MODELS AND VR30DDTT AWD MODELS	
REMOVAL AND INSTALLATION23	
CORROSION PROTECTION23	
VR30DDTT 2WD MODELS23 VR30DDTT 2WD MODELS : Description23	

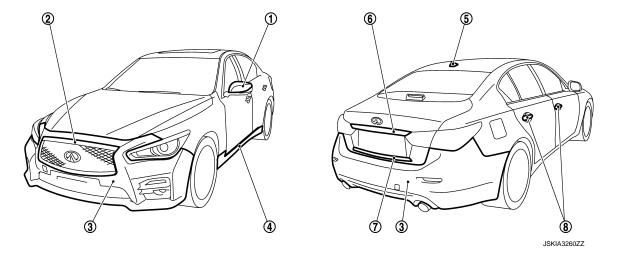
VR30DDTT 2WD MODELS : Anti-corrosive Wax2 VR30DDTT 2WD MODELS : Undercoating2 VR30DDTT 2WD MODELS : Body Sealing2	4
2.0L TURBO GASOLINE ENGINE MODELS AND VR30DDTT AWD MODELS	8 9 0
BODY CONSTRUCTION	5
REPLACEMENT OPERATIONS	8
VR30DDTT 2WD MODELS : Radiator Core Support	1 1 1 4 7 9 1 5 6 2 5
VR30DDTT 2WD MODELS : Rear Side Member Extension	8

2.0L TURBO GASOLINE ENGINE MODELS AND	SERVICE DATA AND SPECIFICATIONS
VR30DDTT AWD MODELS70	(SDS)101
2.0L TURBO GASOLINE ENGINE MODELS AND	
VR30DDTT AWD MODELS : Radiator Core Sup-	BODY ALIGNMENT101
port	VR30DDTT 2WD MODELS101
2.0L TURBO GASOLINE ENGINE MODELS AND	VR30DDTT 2WD MODELS : Body Center Marks
VR30DDTT AWD MODELS : Hoodledge	. 101
2.0L TURBO GASOLINE ENGINE MODELS AND VR30DDTT AWD MODELS : Front Side Member 73	VR30DDTT 2WD MODELS : Description 102
2.0L TURBO GASOLINE ENGINE MODELS AND	VR30DDTT 2WD MODELS :
VR30DDTT AWD MODELS :	Engine Compartment102
Front Side Member (Partial Replacement) 76	VR30DDTT 2WD MODELS : Underbody 104
2.0L TURBO GASOLINE ENGINE MODELS AND	VR30DDTT 2WD MODELS : Passenger Com-
VR30DDTT AWD MODELS : Front Pillar	partment 107
2.0L TURBO GASOLINE ENGINE MODELS AND	VR30DDTT 2WD MODELS : Rear Body110
VR30DDTT AWD MODELS : Center Pillar 80	2.0L TURBO GASOLINE ENGINE MODELS AND
2.0L TURBO GASOLINE ENGINE MODELS AND	VR30DDTT AWD MODELS111
VR30DDTT AWD MODELS : Outer Sill (Partial	2.0L TURBO GASOLINE ENGINE MODELS AND
Replacement)84	VR30DDTT AWD MODELS: Body Center Marks
2.0L TURBO GASOLINE ENGINE MODELS AND	. 111
VR30DDTT AWD MODELS : Outer Sill 85	2.0L TURBO GASOLINE ENGINE MODELS AND
2.0L TURBO GASOLINE ENGINE MODELS AND	VR30DDTT AWD MODELS: Description 112
VR30DDTT AWD MODELS : Rear Fender 90	2.0L TURBO GASOLINE ENGINE MODELS AND
2.0L TURBO GASOLINE ENGINE MODELS AND	VR30DDTT AWD MODELS :
VR30DDTT AWD MODELS : Rear Panel 93	Engine Compartment113
2.0L TURBO GASOLINE ENGINE MODELS AND VR30DDTT AWD MODELS : Rear Floor Rear 94	2.0L TURBO GASOLINE ENGINE MODELS AND
2.0L TURBO GASOLINE ENGINE MODELS AND	VR30DDTT AWD MODELS : Underbody 115
VR30DDTT AWD MODELS : Rear Side Member	2.0L TURBO GASOLINE ENGINE MODELS AND
Extension	VR30DDTT AWD MODELS : Passenger Com-
2.0L TURBO GASOLINE ENGINE MODELS AND	partment
VR30DDTT AWD MODELS : Roof 97	2.0L TURBO GASOLINE ENGINE MODELS AND
2.0L TURBO GASOLINE ENGINE MODELS AND	VR30DDTT AWD MODELS : Rear Body 121
VR30DDTT AWD MODELS: Roof (Sunroof) 98	LOCATION OF PLASTIC PARTS123
FRONT COMPINATION LAMP	Precautions for Plastics123
FRONT COMBINATION LAMP 100	Location of Plastic Parts124
Installing service bracket100	

VEHICLE INFORMATION

BODY EXTERIOR PAINT COLOR

Body Exterior Paint Color



			Color code	BCAN	BGAC	BK23	BKAD	BKH3	BNAH	BQAB	BRAY	BRBP
_		Description	Brown	Black	Silver	Gray	Black	Red	White	Blue	Gray- ish Blue	
	Compor	ient	Paint type note	2M	2P	2M	2M	2S	2PM	3P	2P	2M
			Anti scratch advanced paint	×	×	×	×	×	×	×	×	×
1	Door mirro	r cover	Body color	BCAN	BGAC	BK23	BKAD	ВКН3	BNAH	BQAB	BRAY	BRBP
2	Front grille		Chromium plate	Cr	Cr	Cr	Cr	Cr	Cr	Cr	Cr	Cr
3	Bumper fa	scia	Body color	BCAN	BGAC	BK23	BKAD	ВКН3	BNAH	BQAB	BRAY	BRBP
4	Sill cover		Body color	BCAN	BGAC	BK23	BKAD	ВКН3	BNAH	BQAB	BRAY	BRBP
(5)	Antenna ba	ase cover	Body color	BCAN	BGAC	BK23	BKAD	ВКН3	BNAH	BQAB	BRAY	BRBP
6	Trunk lid fi	nisher	Chromium plate	Cr	Cr	Cr	Cr	Cr	Cr	Cr	Cr	Cr
7	Trunk lid m	nolding	Chromium plate	Cr	Cr	Cr	Cr	Cr	Cr	Cr	Cr	Cr
	Door out-	Grip body	Body color	BCAN	BGAC	BK23	BKAD	BKH3	BNAH	BQAB	BRAY	BRBP
8	side han- dle	Grip fin- isher	Chromium plate	Cr	Cr	Cr	Cr	Cr	Cr	Cr	Cr	Cr

NOTE:

- · 2M: 2 coat metallic
- · 2P: 2 coat pearl
- · 2S: 2 coat solid
- 3P: 3 coat pearl
- 2PM: 2 coat pearl metallic

BRM

Α

В

C

D

Е

F

G

Н

INFOID:0000000013464022

L

M

Ν

0

PRECAUTION

PRECAUTIONS

Precautions for Body Repair

INFOID:0000000013826912

WARNING:

- The repair information in this section is intended for trained body repair technicians who have attained a high level of skill and experience (e.g. ASE Collision Repair Certification, I-CAR Professional Development Program [PDP] training, etc.) in repairing collision damaged vehicles using appropriate tools and equipment. Performing repairs without the proper training, tools or equipment could damage the vehicle or cause personal injury or death to you or others.
- The information in this Body Repair Manual is a guideline for repairing collision damaged vehicles. However, this information cannot cover all possible ways that a vehicle can be damaged. As such, the body repair technician is responsible for making sure that the repair does not affect the structural integrity or safety of the vehicle. Improper repair of a damaged vehicle may result in a collision, property damage, personal injury or death.
- Infiniti recommends using only new genuine Infiniti replacement body parts. Use of used, salvaged
 or aftermarket body parts is not recommended by Infiniti. Non-genuine Infiniti components may
 affect the vehicle's structural integrity and crash safety performance, which could result in serious
 personal injury or death in an accident.

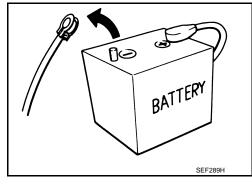
Precautions for Removing Battery Terminal

INFOID:0000000013826913

When disconnecting the battery terminal, pay attention to the following.

- Always use a 12V battery as power source.
- · Never disconnect battery terminal while engine is running.
- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.
- For vehicles with the engine listed below, remove the battery terminal after a lapse of the specified time:

BR08DE : 4 minutes V9X engine : 4 minutes D4D engine : 20 minutes YD25DDTi : 2 minutes HR09DET : 12 minutes YS23DDT : 4 minutes HRA2DDT YS23DDTT : 12 minutes 4 minutes K9K engine : 4 minutes ZD30DDTi : 60 seconds : 60 seconds M9R engine : 4 minutes ZD30DDTT R9M engine : 4 minutes



NOTE:

ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.

• After high-load driving, if the vehicle is equipped with the V9X engine, turn the ignition switch OFF and wait for at least 15 minutes to remove the battery terminal.

NOTE:

- Turbocharger cooling pump may operate in a few minutes after the ignition switch is turned OFF.
- Example of high-load driving
- Driving for 30 minutes or more at 140 km/h (86 MPH) or more.
- Driving for 30 minutes or more on a steep slope.
- For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.

NOTE:

If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.

After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.

NOTE

The removal of 12V battery may cause a DTC detection error.

REPAIRING HIGH STRENGTH STEEL

< PRECAUTION >

REPAIRING HIGH STRENGTH STEEL

High Strength Steel (HSS)

INFOID:0000000012797678

Α

В

C

D

Е

F

Н

High strength steel is used for body panels in order to reduce vehicle weight.

Accordingly, precautions in repairing automotive bodies made of high strength steel are described below:

Tensile strength	Major applicable parts
	Rear side floor
	(Rear floor rear side component part)
	Rear seat crossmember reinforcement assembly
	Trans control reinforcement
	(Center front floor component part)
	Front side member center extension
	(Front floor component part)
	2nd and 3rd crossmember
	(Front floor component part)
	Inner sill
	Lower dash
	Lower dash crossmember
	Upper front hoodledge
	Front hoodledge reinforcement
	Hoodledge reinforcement
	Front strut housing
	 Front side member closing plate assembly
	Front side member center closing plate
	 Front side member front closing plate
	Front side member assembly
	Add on frame bracket
	 Front side member front extension
440 - 780 MPa	Front side member outrigger
	(Front side member outrigger assembly component part)
	Rear seat crossmember
	(Rear seat crossmember component part)
	Rear floor belt anchor reinforcement
	Rear side member front
	(Rear side member assembly component part)
	Rear side member rear
	Rear side member extension
	Rear roof rail
	Inner side roof rail
	Front roof rail brace
	Inner center pillar (Lower)
	(Inner center pillar component part)
	Center pillar reinforcement (Lower)
	(Center pillar reinforcement component part)
	Front pillar hinge brace
	(Front pillar brace component part)
	Outer sill reinforcement
	Rear roof rail brace
	(Inner rear pillar component part)
	Outer rear wheelhouse extension (Rear)
	(Outer rear wheelhouse extension component part)

BRM

J

L

M

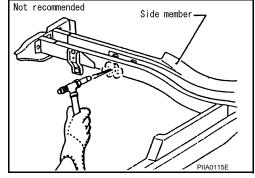
Ν

0

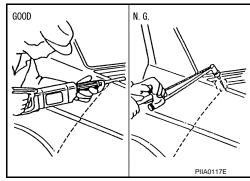
Tensile strength	Major applicable parts
980 - 1350 MPa	 Front side member stiffener (Front floor component part) Center sill reinforcement (Inner sill component part) Outrigger reinforcement (Front side member outrigger assembly component part) Front side member rear extension Rear side member rear reinforcement (Rear side member assembly component part) Front roof rail Roof reinforcement assembly Side roof reinforcement Inner center pillar (Upper) (Inner center pillar component part) Center pillar seat belt anchor (Inner center pillar component part) Outer side roof rail reinforcement Center pillar reinforcement (Upper) (Center pillar reinforcement component part) Center pillar reinforcement component part) Center pillar reinforcement component part) Center sill reinforcement component part) Center sill reinforcement component part) Outer rear sill reinforcement component part) Outer rear sill reinforcement component part) Outer rear sill reinforcement 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.)



- 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 (1.97 in).

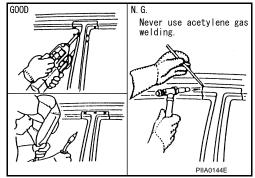


REPAIRING HIGH STRENGTH STEEL

< PRECAUTION >

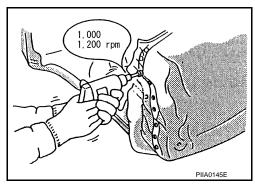
 When welding HSS panels, use spot welding whenever possible in order to minimize weakening surrounding areas due to heat.

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

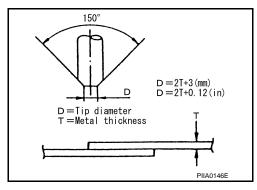


 Spot welding on HSS panels is harder than that of an ordinary steel panel.

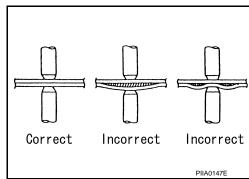
Therefore, when cutting spot welds on a HSS panel, use a low speed high torque drill (1,000 to 1,200 rpm) to increase drill bit durability and facilitate the operation.



- 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.



Α

В

С

D

Е

F

Н

J

BRM

L

M

Ν

0

Ρ

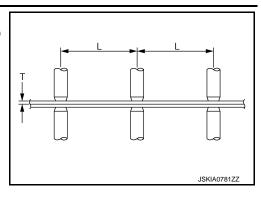
REPAIRING HIGH STRENGTH STEEL

< PRECAUTION >

• Follow the specifications for the proper welding pitch.

Unit: mm (in)

	Unit.
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

INFOID:0000000012797679

PROHIBITION OF CUT AND CONNECTION

Never cut and joint the lower lock pillar reinforcement (center pillar reinforcement inside frame parts) because its material is high strength steel plate (ultra high strength steel plate).

The center pillar reinforcement must be replaced if this part is damaged.

PREPARATION

REPAIRING MATERIAL

Foam Repair

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

URETHANE FOAM APPLICATIONS

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

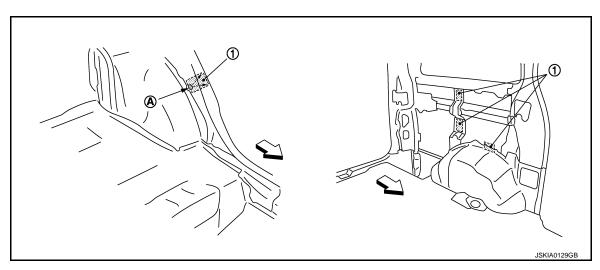
Urethane foam for foaming agent>

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.
- 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
- : Vehicle front
- 2. Fill procedures before installation of service part.
- 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.

BRM

Α

В

D

Е

F

Н

M

Ν

0

REPAIRING MATERIAL

< PREPARATION >

- ① Urethane foam
- A Fill while avoiding flange area

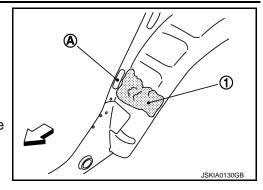
NOTE:

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.



BODY COMPONENT PARTS VR30DDTT 2WD MODELS

INFOID:0000000012797681

Α

В

C

D

Е

F

G

Н

J

L

M

Ν

0

Р

VR30DDTT 2WD MODELS: Underbody Component Parts

Refer to parts catalogue for the replacement parts.



JSKIA3261ZZ

Both sided anti-corrosive precoated steel sections

High strength steel (HSS) sections

Both sided anti-corrosive steel and HSS sections

*: Aluminum portion

No.	Parts name	Tensile strength (MPa)	Both sided anti-corrosive precoated steel sections	Aluminum portion		
1	Spare wheel clamp reinforcement	Under 440	_	_		
2	Rear floor rear	Under 440	×	_		
3	Rear floor rear side (RH & LH)	590	×	_		
4	2nd rear crossmember (Upper)			590	_	_
(5)	Rear floor front			Under 440	×	_
6	Rear seat crossmember reinforcement assemble	у		590	×	_
7	Center front floor			440	×	_
8	Front floor (RH & LH)	590	×	_		
9	Inner sill (RH & LH)	590	×	_		
10	Lower dash			440	×	_
11	Upper dash	Under 440	×	_		
12	Side dash (RH & LH)	Under 440	×	_		
13	Upper front cowl top assembly	Under 440	×	_		
14)	Cowl top bracket	Under 440	×	_		
15	Lower dash crossmember			590	×	_
16	Lower battery support bracket			Under 440	×	_
17	Front cowl top assembly (RH & LH)			Under 440	×	_
18	Upper front hoodledge (RH & LH)			440	×	_
19	Front hoodledge reinforcement (RH & LH)			Under 440	×	_
20	Hoodledge reinforcement (RH & LH)			440	×	_
21)	Battery support bracket			Under 440	×	_
22	Lower rear hoodledge (RH & LH)			Under 440	×	_
23	Side radiator core support (RH & LH)			Under 440	×	_
24	Front strut housing (RH & LH)			440	×	_
25	Inner center front bumper reinforcement			_	_	×
26	Front bumper armature assembly	_	_	×		
27	Side apron bracket assembly (RH & LH)			Under 440	_	_
28	Front bumper stay (RH & LH)	Under 440	_	_		
29	Front side member closing plate assembly (RH	& LH)	590	×	_
30	Front side member center closing plate (RH & L	.H)		440	×	_
31)	Bumper reinforcement bracket (RH & LH)			Under 440	×	_

< PREPARATION >

No.	Parts name	Tensile strength (MPa)	Both sided anti-corrosive precoated steel sections	Aluminum portion		
32	Front side member front closing plate (RH & LH)	590	×			
33	Front side member assembly (RH & LH)			590	×	_
34)	Front side member connector assembly (RH & LH))		Under 440	×	_
35)	Add on frame bracket (RH & LH)	440	×	_		
36	Front side member front extension (RH & LH)	780	×	_		
37	Front side member outrigger assembly (RH & LH)) .	980MPa ^{caution} T=2.0 mm (0.079 in)	590	×	
38	Front side member rear extension (RH & LH)	Front side member rear extension (RH & LH) 980MPa ^{caution} T=1.2 mm (0.047 in)				
39	Rear seat crossmember	I.		590	×	_
40	Rear floor belt anchor reinforcement			590	×	_
<u>41</u>	2nd rear crossmember (Lower)			590	×	
42	Rear side member assembly (RH & LH)	d.	980MPa ^{caution} T=1.2 mm (0.047 in)	590	×	_
43	Rear side member rear (RH & LH)	590	×	_		
(44)	Rear side member extension (RH & LH)	780	×	_		

CAUTION

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

- · For the parts without a number described in the figure, it is supplied only with the assembly part that the part is included with.
- Tensile strength column shows the largest strength value of a part in the component part.

VR30DDTT 2WD MODELS: Body Component Parts

INFOID:0000000012797682

Refer to parts catalogue for the replacement parts.

BRM

J

Α

В

D

Е

F

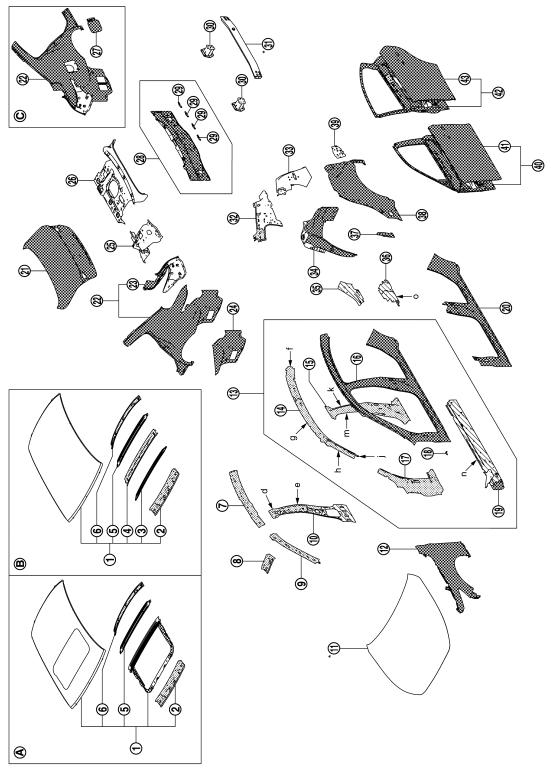
Н

L

M

Ν

0



JSKIA3368ZZ

A Sunroof models

B Without sunroof models

© Right side

Both sided anti-corrosive precoated steel sections

: High strength steel (HSS) sections

Both sided anti-corrosive steel and HSS sections

*: Aluminum portion

< PREPARATION >

No.	Parts name	Tensile strength (MPa)	Both sided anti-corrosive precoated steel sections	Aluminum portion			
1	Roof assembly			590	_	_	
2	Front roof rail		1180MPa ^{caution} T=1.0 mm (0.039 in)	_	_	_	
3	Roof bow No.1			Under 440	_	_	
4	Roof reinforcement assembly		980MPa ^{caution} T=1.0 mm (0.039 in)	_	_	_	
⑤	Roof bow No.2			Under 440	_	_	
6	Rear roof rail			590	_	_	
7	Inner side roof rail (RH & LH)			590	_	_	
8	Front roof rail brace (RH & LH)			590	_	_	
9	Side roof reinforcement (RH & LH)		1180MPa ^{caution} T=1.2 mm (0.047 in)	_	_	_	
\sim	Inner center pillar (RH & LH)		1180MPa ^{caution} T=1.2 mm (0.047 in)	440			
10			1350MPa ^{caution} T=1.8 mm (0.071 in)	440	_		
11)	Hood			_	_	×	
12	Front fender (RH & LH)		Under 440	×	_		
13	Side body assembly (RH & LH)			Refer to No. 14 - 19			
	Outer side roof rail reinforcement (RH & LH)	f.	1180MPa ^{caution} T=1.0 mm (0.039 in)				
		g.	1350MPa ^{caution} T=1.4 mm (0.055 in)				
14	Outer side roomali reililorcement (KH & LH)	h.	1180MPa ^{caution} T=1.2 mm (0.047 in)	_		_	
		j.	980MPa ^{caution} T=1.6 mm (0.063 in)				
		k.	1180MPa ^{caution} T=1.2 mm (0.047 in)	440			
15	Center pillar reinforcement (RH & LH)		1350MPa ^{caution} T=1.4 mm (0.055 in)	440	_	_	
16	Outer front side body (RH & LH)			Under 440	×	_	
17	Front pillar brace (RH & LH)			590	_	_	
18	Cowl top bracket extension (RH & LH)			Under 440	×	_	
19	Outer sill reinforcement (RH & LH)	n.	1180MPa ^{caution} T=1.0 mm (0.039 in)	590	×	_	
20	Outer sill (RH & LH)			Under 440	×	_	
21)	Trunk lid		Under 440	×	_		
22	Rear fender (RH & LH)			Under 440	×	_	
23	Tail pillar assembly (RH & LH)			Under 440			
24)	Rear fender extension (RH & LH)		Under 440	×	_		

Revision: November 2016 BRM-15 2016 Q50

< PREPARATION >

No.	Parts name	Tensile strength (MPa)	Both sided anti-corrosive precoated steel sections	Aluminum portion		
25	Side parcel shelf (RH & LH)	Under 440	_	_		
26	Parcel shelf			Under 440	_	_
27	Fuel filler lid			Under 440	×	_
28	Upper rear panel assembly	Under 440	×	_		
29	Rear bumper bracket	Under 440	×	_		
30	Rear bumper stay (RH & LH)	Under 440	_	_		
31)	Inner center rear bumper reinforcement	_	×			
32	Inner rear pillar (RH & LH)	590	_	_		
33	Inner rear pillar reinforcement (RH & LH)	Under 440	_	_		
34)	Inner rear wheelhouse (RH & LH)			Under 440	×	_
35	Outer rear wheelhouse extension (RH & LH	Upp	er)	590	×	_
36	Outer rear wheelhouse extension (RH & LH Lower)	0.	980MPa ^{caution} T=1.0 mm (0.039 in)	590	×	_
37	Inner rear wheelhouse front extension (RH 8	& LH)	Under 440	×	_
38	Outer rear wheelhouse (RH & LH)			Under 440	×	_
39	Outer rear wheelhouse extension (RH & LH	Under 440	_	_		
40	Front door assembly (RH & LH)	440	×	_		
<u>41</u>	Outer front door panel (RH & LH)	Under 440	×	_		
42	Rear door assembly (RH & LH)			440	×	_
43	Outer rear door panel (RH & LH)			Under 440	×	_

CAUTION:

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

- For the parts without a number described in the figure, it is supplied only with the assembly part that the part is included with.
- Tensile strength column shows the largest strength value of a part in the component part.

2.0L TURBO GASOLINE ENGINE MODELS AND VR30DDTT AWD MODELS

2.0L TURBO GASOLINE ENGINE MODELS AND VR30DDTT AWD MODELS : Underbody Component Parts

Refer to parts catalogue for the replacement parts.



Both sided anti-corrosive precoated steel sections

: High strength steel (HSS) sections

Both sided anti-corrosive steel and HSS sections

*: Aluminum portion

BRM

J

Α

В

С

D

Е

F

G

Н

L

 \mathbb{N}

Ν

0

BRM-17 2016 Q50 Revision: November 2016

Ρ

No.	Parts name	Tensile strength (MPa)	Both sided anti-corrosive precoated steel sections	Aluminum portion		
1	Spare wheel clamp reinforcement	Under 440	_	_		
2	Rear floor rear	Under 440	×	_		
3	Rear floor rear side (RH & LH)			590	×	_
4	2nd rear crossmember (Upper)			590	_	_
(5)	Rear floor front	Under 440	×	_		
6	Rear seat crossmember reinforcement assemble	590	×	_		
7	Center front floor	440	×	_		
8	Front floor (RH & LH)	a.	1350MPa ^{caution} T=1.6 mm (0.063 in)	590	×	_
9	Inner sill (RH & LH)	b.	980MPa ^{caution} T=1.0 mm (0.039 in)	590	×	_
10	Lower dash			440	×	_
11)	Upper dash	Under 440	×	_		
12	Side dash (RH & LH)	Under 440	×	_		
13	Upper front cowl top assembly	Under 440	×	_		
14)	Cowl top bracket	Under 440	×	_		
15)	Lower dash crossmember	590	×	_		
16	Lower battery support bracket	Under 440	×	_		
17	Front cowl top assembly (RH & LH)			Under 440	×	_
18	Upper front hoodledge (RH & LH)			440	×	_
19	Front hoodledge reinforcement (RH & LH)			Under 440	×	_
20	Hoodledge reinforcement (RH & LH)			440	×	_
21)	Battery support bracket			Under 440	×	_
22	Lower rear hoodledge (RH & LH)			Under 440	×	_
23	Side radiator core support (RH & LH)			Under 440	×	_
24	Front strut housing (RH & LH)			440	×	_
25	Inner center front bumper reinforcement			_	_	×
26	Front bumper armature assembly			_	_	×
27	Side apron bracket assembly (RH & LH)			Under 440	_	_
28	Front bumper stay (RH & LH)		Under 440	_	_	
29	Front side member closing plate assembly (Rh	590	×	_		
30	Front side member center closing plate (RH &	440	×	_		
31)	Bumper reinforcement bracket (RH & LH)	Under 440	×	_		
32	Front side member front closing plate (RH & L	590	×	_		
33	Front side member assembly (RH & LH)		590	×	_	
34)	Front side member connector assembly (RH 8	LH)		Under 440	×	_
35)	Add on frame bracket (RH & LH)	440	×	_		

< PREPARATION >

No.	Parts name	Tensile strength (MPa)	Both sided anti-corrosive precoated steel sections	Aluminum portion		
36	Front side member front extension (RH & LH)			780	×	
37	Front side member outrigger assembly (RH & LH)	c.	980MPa ^{caution} T=2.0 mm (0.079 in)	590	×	_
38	Front side member rear extension (RH & LH) 980MPa ^{caution} T=1.2 mm (0.047 in)			_	×	_
39	Rear seat crossmember	590	×	_		
40	Rear floor belt anchor reinforcement	590 ×		_		
41	2nd rear crossmember (Lower)	590	×	_		
42)	Rear side member assembly (RH & LH)	d.	980MPa ^{caution} T=1.2 mm (0.047 in)	590	×	_
43	Rear side member rear (RH & LH)	590	×	_		
44)	Rear side member extension (RH & LH)	780	×	_		

CAUTION:

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

- · For the parts without a number described in the figure, it is supplied only with the assembly part that the part is included with.
- Tensile strength column shows the largest strength value of a part in the component part.

2.0L TURBO GASOLINE ENGINE MODELS AND VR30DDTT AWD MODELS : Body Component Parts

Refer to parts catalogue for the replacement parts.

BRM

J

M

Ν

0

Р

Revision: November 2016 BRM-19 2016 Q50

Н

Α

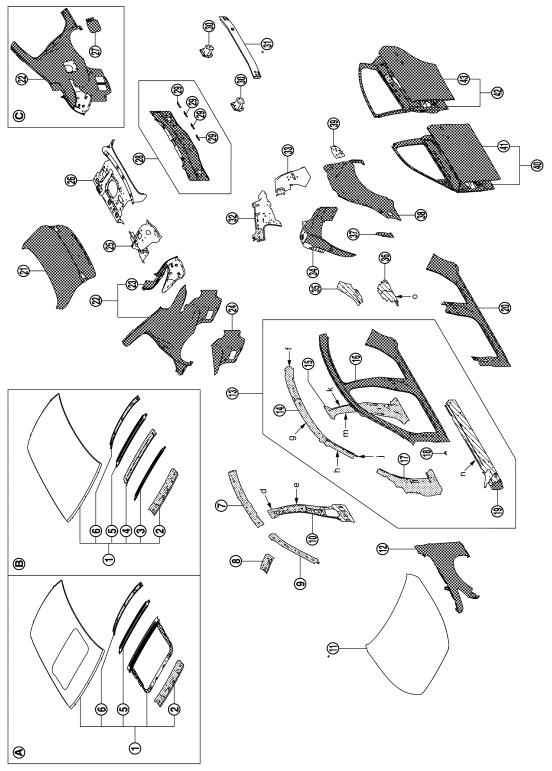
В

D

Е

F

L



JSKIA3368ZZ

A Sunroof models

B Without sunroof models

© Right side

Both sided anti-corrosive precoated steel sections

: High strength steel (HSS) sections

Both sided anti-corrosive steel and HSS sections

*: Aluminum portion

< PREPARATION >

١	No.	Parts name	Tensile strength (MPa)	Both sided anti-corrosive precoated steel sections	Aluminum portion		
1		Roof assembly			590	_	_
2		Front roof rail		1180MPa ^{caution} T=1.0 mm (0.039 in)	_	_	_
3		Roof bow No.1	, ,		Under 440	_	_
4		Roof reinforcement assembly		980MPa ^{caution} T=1.0 mm (0.039 in)	_	_	_
(5)		Roof bow No.2			Under 440	_	_
6		Rear roof rail			590	_	_
7		Inner side roof rail (RH & LH)			590	_	_
8		Front roof rail brace (RH & LH)			590	_	_
9		Side roof reinforcement (RH & LH)		1180MPa ^{caution} T=1.2 mm (0.047 in)	_	_	_
<u> </u>				1180MPa ^{caution} T=1.2 mm (0.047 in)	440		
10		Inner center pillar (RH & LH)	e.	1350MPa ^{caution} T=1.8 mm (0.071 in)	440	_	_
11)		Hood		_	_	×	
12		Front fender (RH & LH)			Under 440	×	_
13		Side body assembly (RH & LH)			Refer to No. 4 - 19		
		Outer side roof rail reinforcement (RH & LH)	f.	1180MPa ^{caution} T=1.0 mm (0.039 in)		_	
			g.	1350MPa ^{caution} T=1.4 mm (0.055 in)	_		
	14		h.	1180MPa ^{caution} T=1.2 mm (0.047 in)			_
			j.	980MPa ^{caution} T=1.6 mm (0.063 in)			
	45	Center pillar reinforcement (RH & LH)	k.	1180MPa ^{caution} T=1.2 mm (0.047 in)	440		
	15	Center pinar remiorcement (Kri & Lri)	m.	1350MPa ^{caution} T=1.4 mm (0.055 in)	440		_
	16	Outer front side body (RH & LH)	ody (RH & LH)		Under 440	×	_
	17	Front pillar brace (RH & LH)			590	_	_
	18	Cowl top bracket extension (RH & LH)			Under 440	×	_
	19	Outer sill reinforcement (RH & LH)	n.	1180MPa ^{caution} T=1.0 mm (0.039 in)	590	×	_
20		Outer sill (RH & LH)			Under 440	×	_
21		Trunk lid			Under 440	×	_
22		Rear fender (RH & LH)			Under 440	×	_
23		Tail pillar assembly (RH & LH)			Under 440	_	_
(24)	Rear fender extension (RH & LH)			Under 440	×	_	

Revision: November 2016 BRM-21 2016 Q50

< PREPARATION >

No.	Parts name	Tensile strength (MPa)	Both sided anti-corrosive precoated steel sections	Aluminum portion		
25	Side parcel shelf (RH & LH)	Under 440	_	_		
26	Parcel shelf	Under 440	_			
27	Fuel filler lid	Under 440	_			
28	Upper rear panel assembly	Under 440	_			
29	Rear bumper bracket	Under 440	_			
30	Rear bumper stay (RH & LH)	Under 440	_	_		
31	Inner center rear bumper reinforcement	_	_	×		
32	Inner rear pillar (RH & LH)	590 —		_		
33	Inner rear pillar reinforcement (RH & LH)	Under 440 —		_		
34	Inner rear wheelhouse (RH & LH)	Under 440 ×		_		
35	Outer rear wheelhouse extension (RH & LH	590	×	_		
36	Outer rear wheelhouse extension (RH & LH Lower)	0.	980MPa ^{caution} T=1.0 mm (0.039 in)	590	×	_
37	Inner rear wheelhouse front extension (RH	Under 440	×	_		
38	Outer rear wheelhouse (RH & LH)	Under 440 ×		_		
39	Outer rear wheelhouse extension (RH & LH	Under 440	_	_		
40	Front door assembly (RH & LH)	440 ×		_		
41)	Outer front door panel (RH & LH)	Under 440	×	_		
42	Rear door assembly (RH & LH)	440	×	_		
43	Outer rear door panel (RH & LH)			Under 440	×	_

CAUTION:

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

- For the parts without a number described in the figure, it is supplied only with the assembly part that the part is included with.
- Tensile strength column shows the largest strength value of a part in the component part.

CORROSION PROTECTION

< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

CORROSION PROTECTION VR30DDTT 2WD MODELS

VR30DDTT 2WD MODELS : Description

INFOID:0000000012797685

Α

В

D

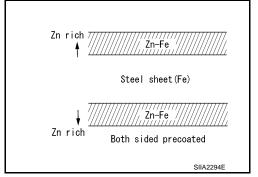
Е

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.



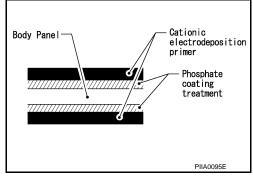
NISSAN genuine parts are fabricated from galvannealed steel. Therefore, it is recommended that NISSAN genuine parts or an equivalent be used for panel replacement to maintain the anti-corrosive performance built into the vehicle at the factory.

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.



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.

VR30DDTT 2WD MODELS: Anti-corrosive Wax

INFOID:0000000012797686

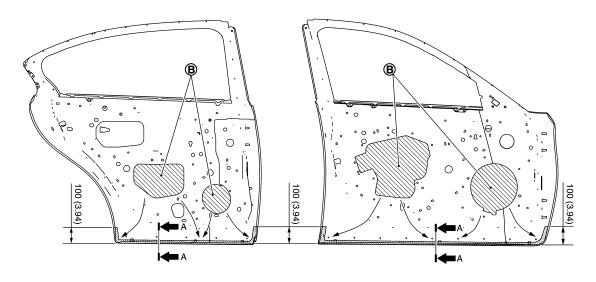
To improve corrosion resistance, anti-corrosive wax is applied inside the body sill and inside other closed sections. Accordingly, when replacing these parts, be sure to apply anti-corrosive wax to the appropriate areas of the new parts. Select an excellent anti-corrosive wax which will penetrate after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

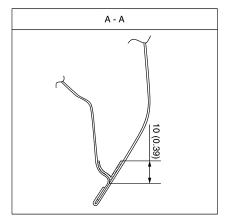
DOOR P

BRM

...

Ν





JSKIA3265GB

(B) Nozzle insert hole

Unit: mm (in)

: Anti-corrosive wax coated portions

VR30DDTT 2WD MODELS : Undercoating

INFOID:0000000012797687

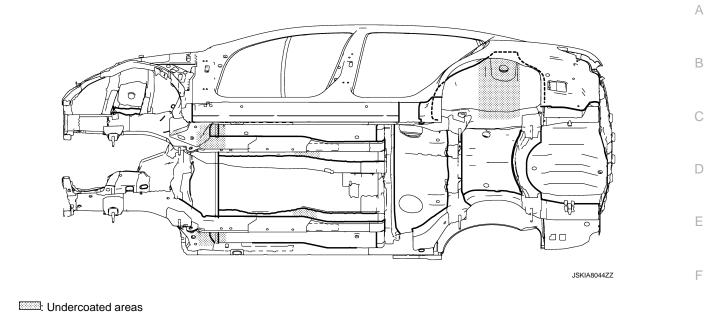
The underside of the floor and wheelhouse are undercoated to prevent rust, vibration, noise and stone chipping. Therefore, when such a panel is replaced or repaired, apply undercoating to that part. Use an undercoating which is rust resistant, soundproof, vibration-proof, shock-resistant, adhesive, and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

PRECAUTIONS IN UNDERCOATING

- Never apply undercoating to any place unless specified (such as the areas above the muffler and three
 way 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.

CORROSION PROTECTION

< REMOVAL AND INSTALLATION >



VR30DDTT 2WD MODELS: Body Sealing

: Sealed portions

INFOID:0000000012797688

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.

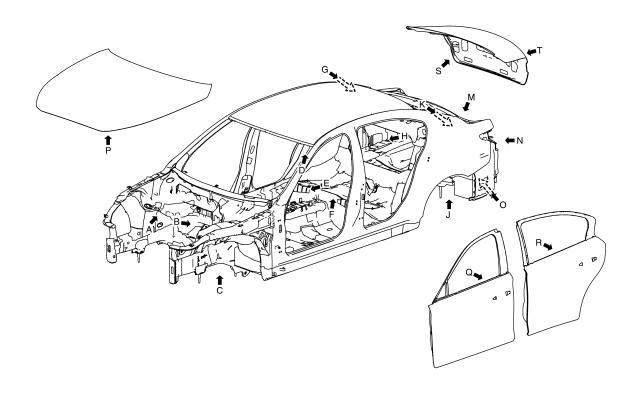
BRM

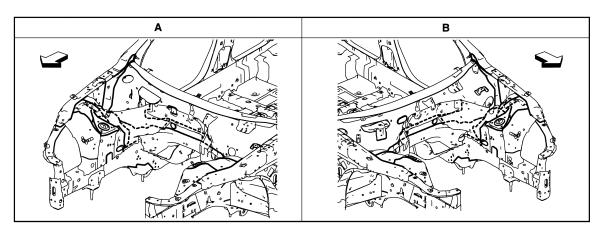
G

M

Ν

0

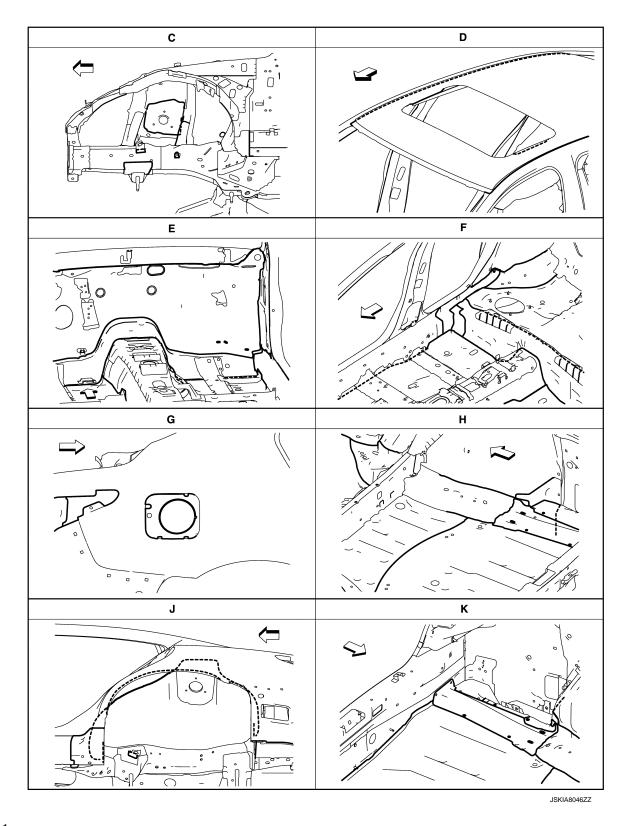




JSKIA4132ZZ

∵: Vehicle front
 ∴: Sealed portions

CORROSION PROTECTION



: Vehicle front

: Sealed portions

Α

В

С

D

Е

F

G

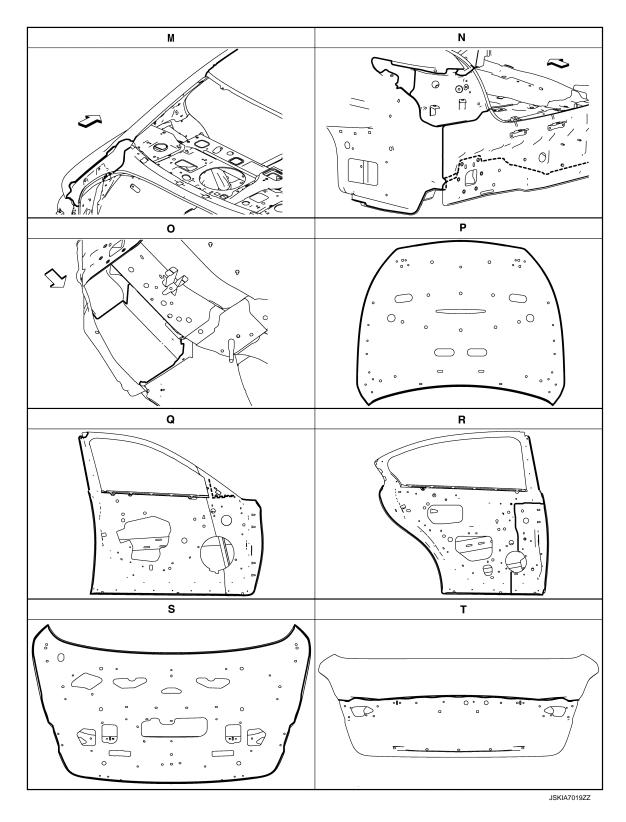
Н

BRM

M

Ν

0



∀: Vehicle front
 ∴: Sealed portions

2.0L TURBO GASOLINE ENGINE MODELS AND VR30DDTT AWD MODELS 2.0L TURBO GASOLINE ENGINE MODELS AND VR30DDTT AWD MODELS : De-

CORROSION PROTECTION

< REMOVAL AND INSTALLATION >

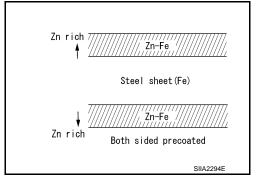
scription INFOID:0000000012797689

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.



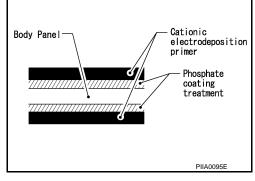
NISSAN genuine parts are fabricated from galvannealed steel. Therefore, it is recommended that NISSAN genuine parts or an equivalent be used for panel replacement to maintain the anti-corrosive performance built into the vehicle at the factory.

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.



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.

2.0L TURBO GASOLINE ENGINE MODELS AND VR30DDTT AWD MODELS : Anticorrosive Wax INFOID:0000000012797690

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

BRM

Α

В

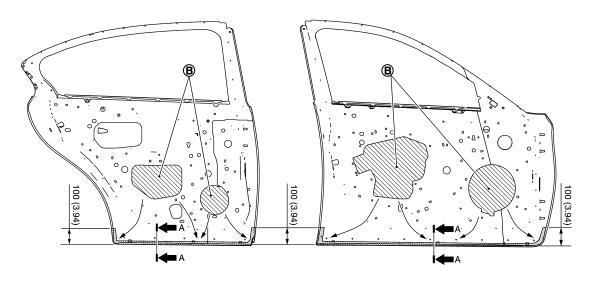
Е

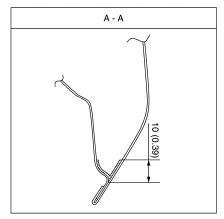
F

Н

BRM-29 Revision: November 2016 2016 Q50

Ν





JSKIA3265GB

(B) Nozzle insert hole

Unit: mm (in)

: Anti-corrosive wax coated portions

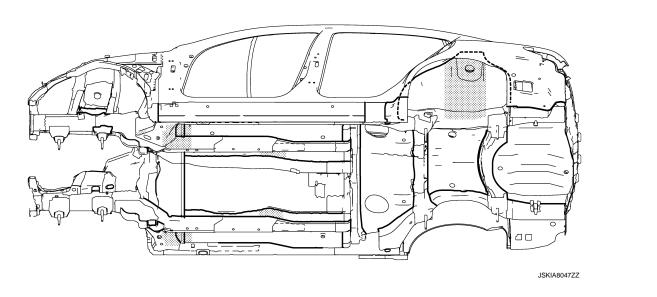
2.0L TURBO GASOLINE ENGINE MODELS AND VR30DDTT AWD MODELS : Undercoating

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

PRECAUTIONS IN UNDERCOATING

- Never apply undercoating to any place unless specified (such as the areas above the muffler and three
 way 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.

CORROSION PROTECTION



: Undercoated areas

: Sealed portions

2.0L TURBO GASOLINE ENGINE MODELS AND VR30DDTT AWD MODELS : 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.

BRM

J

Α

В

C

D

Е

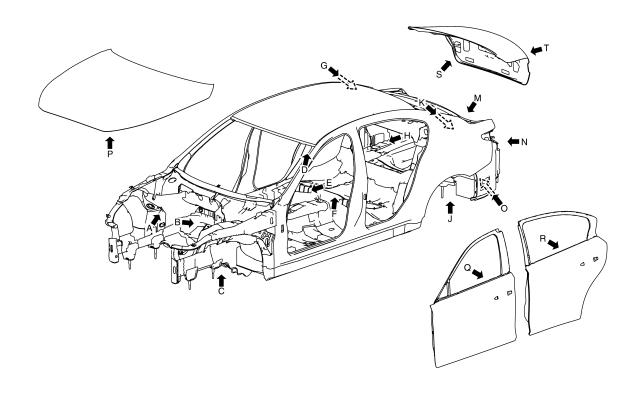
F

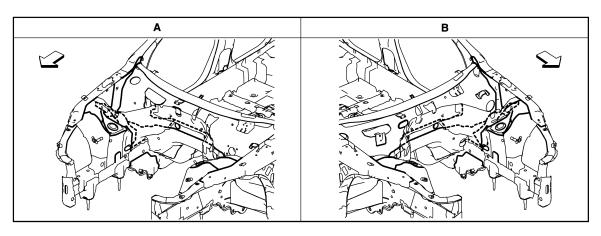
Н

M

Ν

0

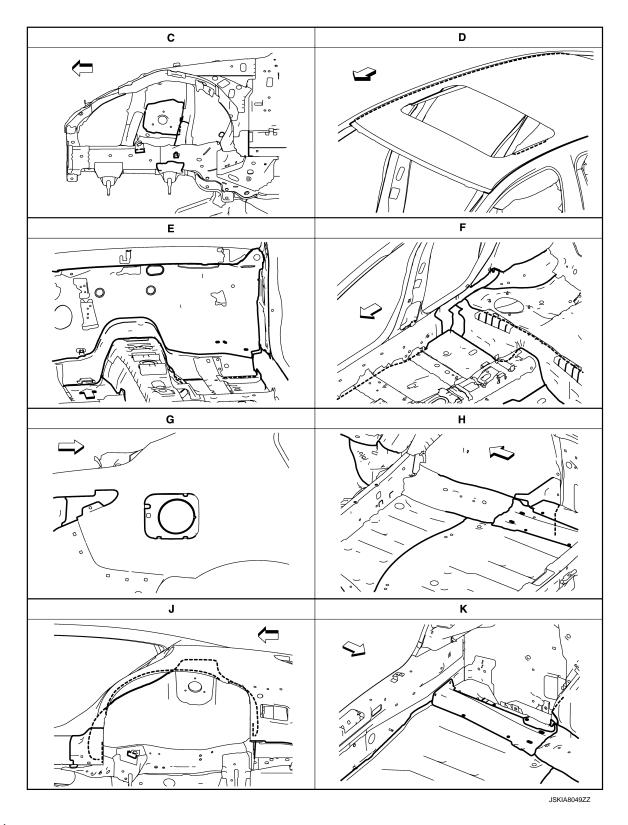




JSKIA4131ZZ

: Vehicle front : Sealed portions

CORROSION PROTECTION



∀ : Vehicle front

: Sealed portions

А

В

С

D

Е

F

G

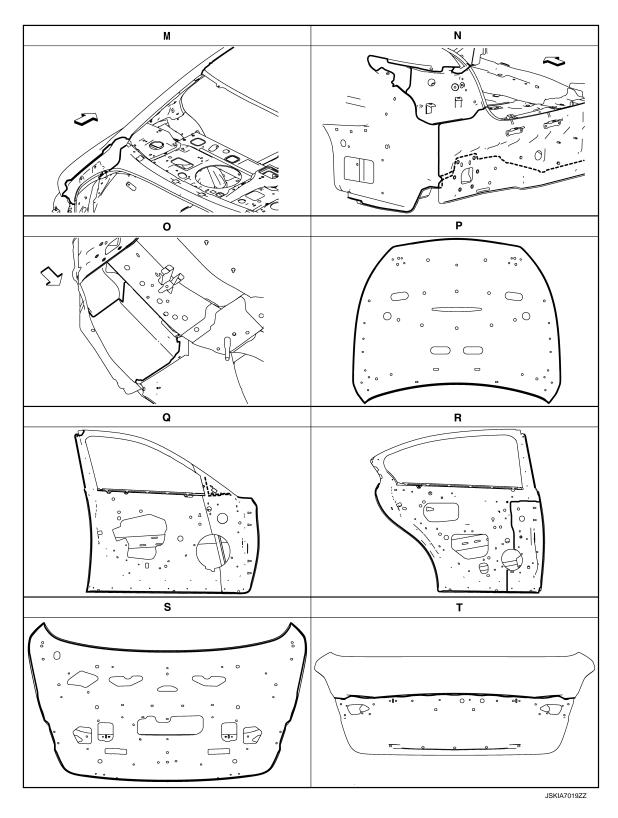
Н

BRM

M

Ν

0



: Vehicle front :: Sealed portions

Revision: November 2016

BODY CONSTRUCTION

Body Construction

INFOID:0000000012797693

Α

В

D

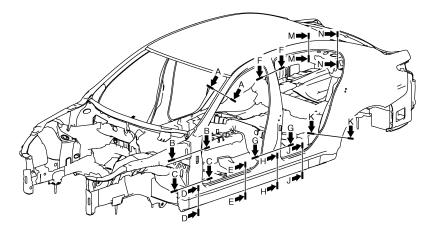
Е

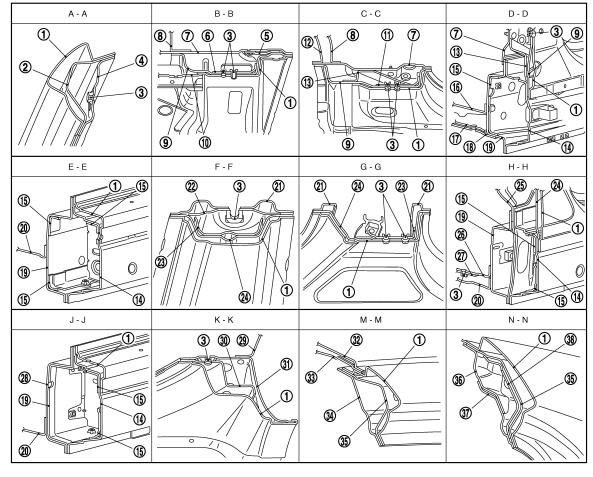
F

Н

J

BRM





JSKIA3274ZZ

- Outer side body
- 4 Inner front side roof rail
- Side dash

- Outer front pillar reinforcement
- Outer front pillar bracket
- 8 Upper dash

- ③ Weld nut
- 6 Upper hinge plate
- 9 Front pillar hinge brace

M

Ν

0

Р

Revision: November 2016 BRM-35 2016 Q50

BODY CONSTRUCTION

< REMOVAL AND INSTALLATION >

10	Hoodledge reinforcement	11)	Lower hinge plate	12	Lower dash crossmember
13	Lower front pillar gusset	14)	Outer sill reinforcement	15)	Center sill reinforcement
16	Lower dash	17)	Outrigger reinforcement	18)	Front side member outrigger
19	Inner sill	20	Front floor	21)	Inner center pillar
22	Center pillar seat belt anchor	23	Center pillar seat belt reinforcement	24)	Center pillar reinforcement
25	Seat belt anchor	26	3rd crossmember	27	Nut plate
28	Rear side member front	29	Inner rear wheelhouse	30	Outer rear wheelhouse extension
31)	Outer rear wheelhouse	32	Roof	33	2nd roof bow
34)	Inner side roof rail	35)	Side roof rail reinforcement	36)	Rear roof rail brace
37	Inner rear pillar	38	Inner rear pillar reinforcement		

Rear Fender Hemming Process

INFOID:0000000012797694

- 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:

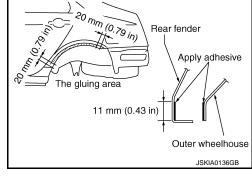
Ensure that the area that is to be glued around the outer wheelhouse is undamaged or defaced.

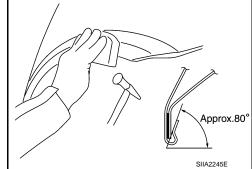
PROCEDURE OF THE HEMMING PROCESS

- 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.

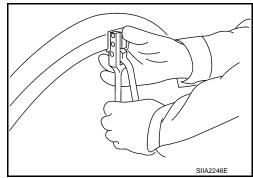
<Adhesive> 3M[™] Automix[™] Panel Bonding Adhesive 08115 or equivalent

- 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.





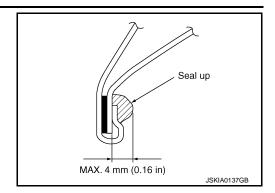
• Starting from the center, hem the wheel arch gradually, using slight back and forth motion with a hemming tool.



BODY CONSTRUCTION

< REMOVAL AND INSTALLATION >

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



Α

В

С

D

Е

F

G

Н

J

BRM

L

 \mathbb{N}

Ν

0

Ρ

INFOID:0000000013826854

< REMOVAL AND INSTALLATION >

REPLACEMENT OPERATIONS

Precautions for Body Repair

WARNING:

- The repair information in this section is intended for trained body repair technicians who have attained a high level of skill and experience (e.g. ASE Collision Repair Certification, I-CAR Professional Development Program [PDP] training, etc.) in repairing collision damaged vehicles using appropriate tools and equipment. Performing repairs without the proper training, tools or equipment could damage the vehicle or cause personal injury or death to you or others.
- The information in this Body Repair Manual is a guideline for repairing collision damaged vehicles. However, this information cannot cover all possible ways that a vehicle can be damaged. As such, the body repair technician is responsible for making sure that the repair does not affect the structural integrity or safety of the vehicle. Improper repair of a damaged vehicle may result in a collision, property damage, personal injury or death.
- Infiniti recommends using only new genuine Infiniti replacement body parts. Use of used, salvaged
 or aftermarket body parts is not recommended by Infiniti. Non-genuine Infiniti components may
 affect the vehicle's structural integrity and crash safety performance, which could result in serious
 personal injury or death in an accident.

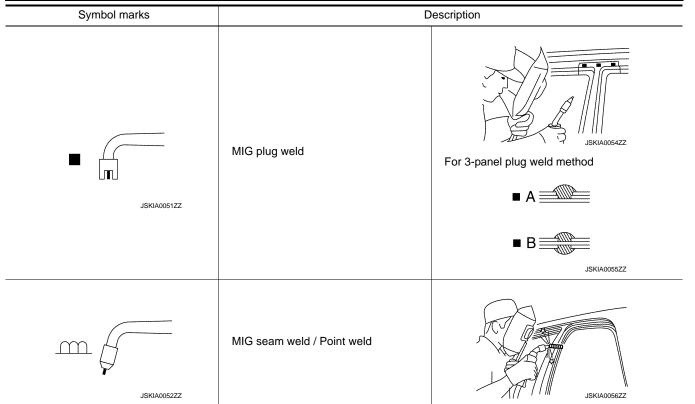
Description INFOID:0000000013826855

- Technicians are 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.

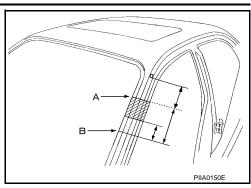
The symbols used in this section for welding operations are shown below

Symbol marks	Description	
"Number"	"Number" after symbol mark is the total number of welds to apply. Example 1: ■"4"A = 4 MIG plug welds for 3-panel plug weld method. Example 2: ""1" × 20 (0.79) = 1 MIG seam weld by length 20 mm (0.79 in).	
JSKIA0049ZZ	2-panel spot weld	JSKIA0053ZZ
	3-panel spot weld	
JSKIA0050ZZ		

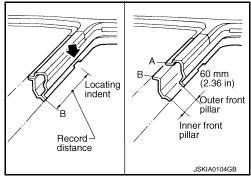
< REMOVAL AND INSTALLATION >



• 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.



 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.



BRM

Α

В

D

Е

F

Н

M

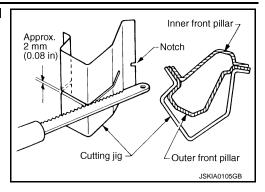
Ν

0

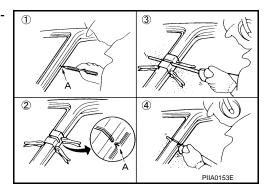
Ρ

< REMOVAL AND INSTALLATION >

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



VR30DDTT 2WD MODELS

REPLACEMENT OPERATIONS < REMOVAL AND INSTALLATION > VR30DDTT 2WD MODELS: Radiator Core Support INFOID:0000000013826839 Α В D **2**-Е F 0 0 Н ■ 2 A ■ 1 A **BRM** В Ν

∹ Vehicle front

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

Replacement parts

Side radiator core support

Front side member connector as-

VR30DDTT 2WD MODELS: Hoodledge

Work after radiator core support is removed.

Revision: November 2016 2016 Q50

0

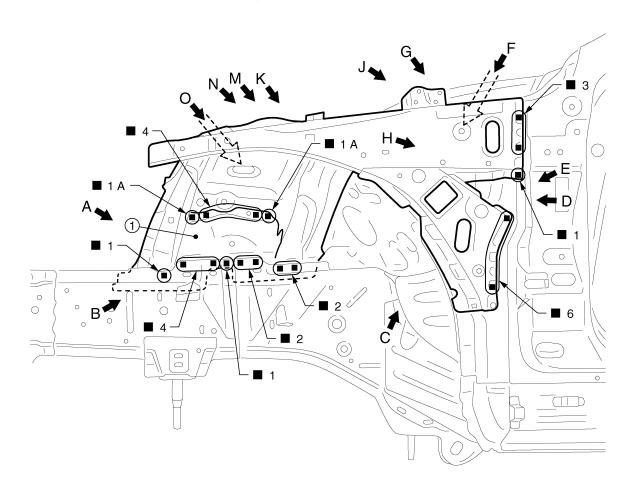
Р

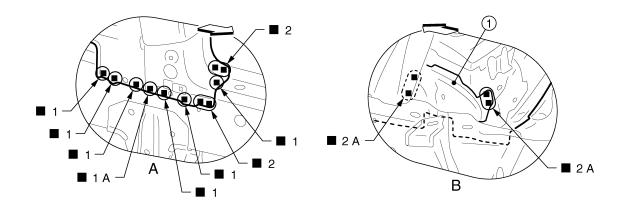
INFOID:0000000012797697

JSKIB0225ZZ

BRM-41

Remove the front side member center closing plate (reusable).



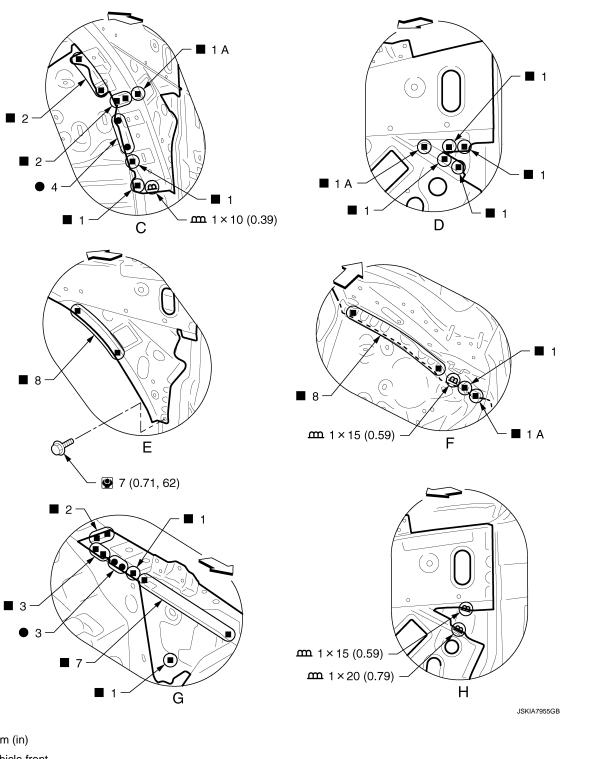


- 1 Front side member center closing plate (reusable)
- ⟨
 ⇒: Vehicle front
- (): Weld the parts onto the back of the component part.

Replacement parts

- Upper front hoodledge
- Hoodledge reinforcement
- Front strut housing

JSKIA3353ZZ



Unit: mm (in)

<
☐: Vehicle front

P: N·m (kg-m, in-lb)

Revision: November 2016 BRM-43 2016 Q50

Α

В

С

D

Е

F

G

Н

J

BRM

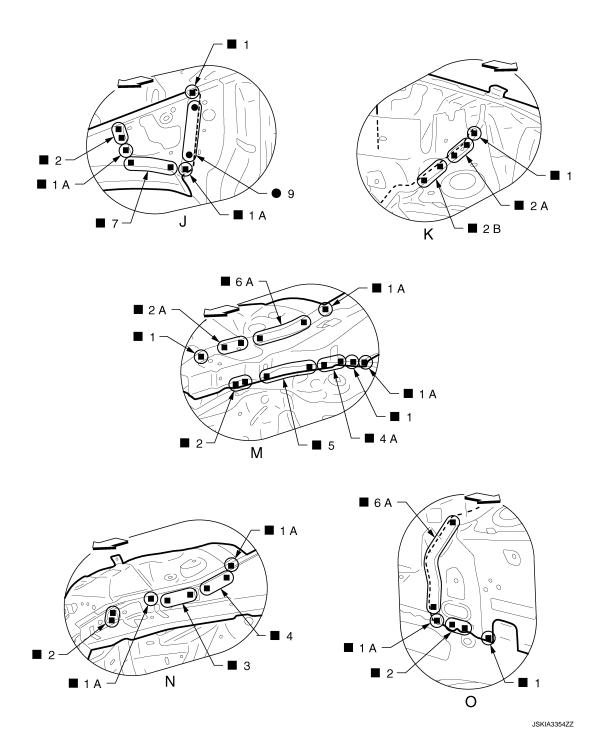
L

M

Ν

0

Р



<>: Vehicle front

View J and N: Before installing hoodledge reinforcement

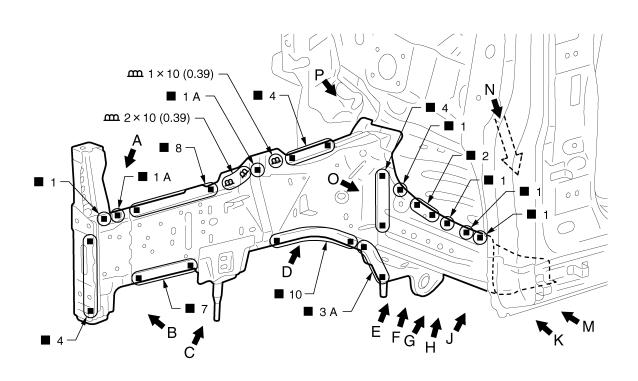
VR30DDTT 2WD MODELS: Front Side Member

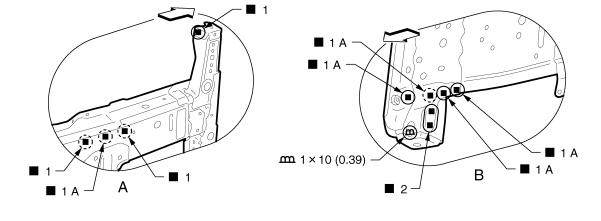
INFOID:0000000012797698

Work after radiator core support and hoodledge are removed.

Remove the front side member outrigger (reusable).

Remove the front side member center closing plate (reusable) from the service part "front side member closing plate assembly" for easier installation of hoodledge.





JSKIA3355GB

Unit: mm (in)

∀
 □: Vehicle front

 $\ref{eq:component}$. Weld the parts onto the back of the component part.

Replacement parts

• Front side member assembly

- Front side member closing plate assembly
- Front side member outrigger assembly

View A: Before installing front side member closing plate assembly

BRM

Α

В

C

D

Е

F

G

Н

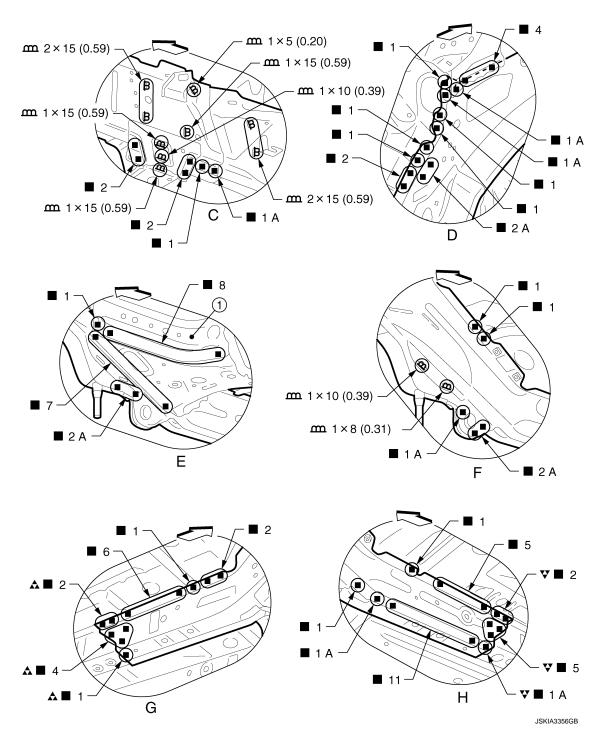
L

M

Ν

0

Р



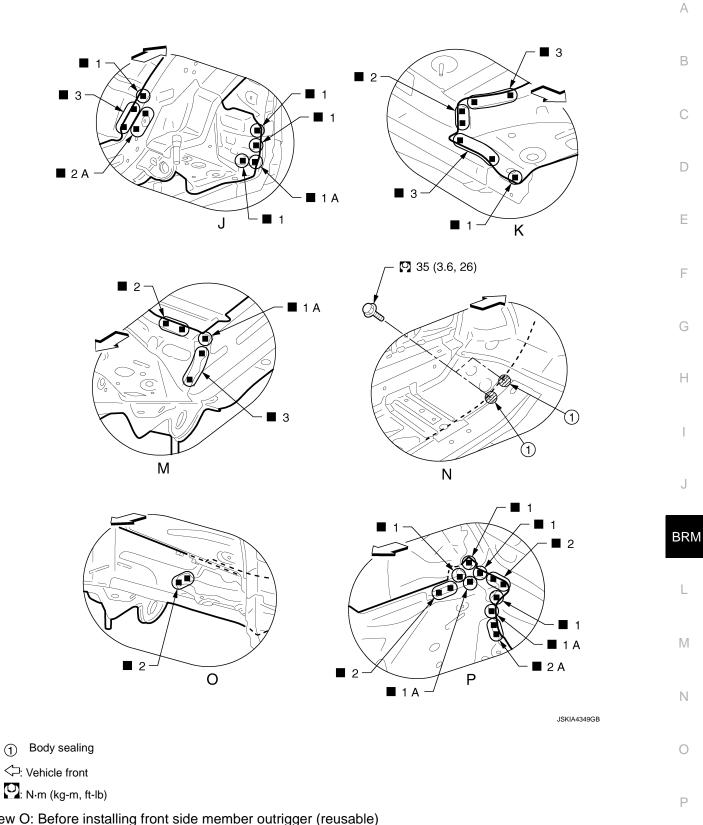
Front side member outrigger (reusable)

Unit: mm (in)

∀
 : Vehicle front

▼: Drill \$11 mm (0.43 in) hole for the plug welding hole (ultra high strength steel plate).

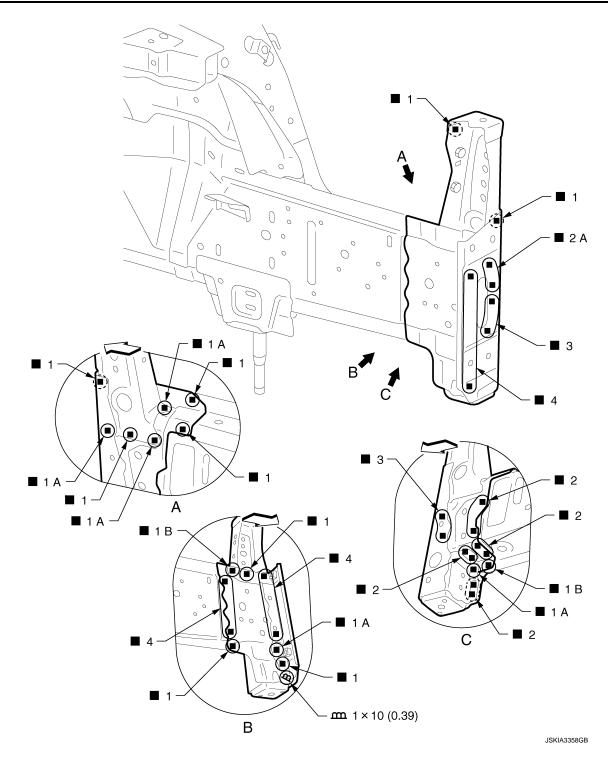
View F and H: Before installing front side member outrigger assembly



View O: Before installing front side member outrigger (reusable)

VR30DDTT 2WD MODELS: Front Side Member (Partial Replacement) INFOID:000000012797699

Work after side radiator core support is removed.



Unit: mm (in)

∀
 □: Vehicle front

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

Replacement parts

- Front side member front extension
- Front side member connector assembly
- Front side member front closing plate
- Bumper reinforcement bracket
- Add on frame bracket

VR30DDTT 2WD MODELS: Front Pillar

INFOID:0000000012797700

Α

В

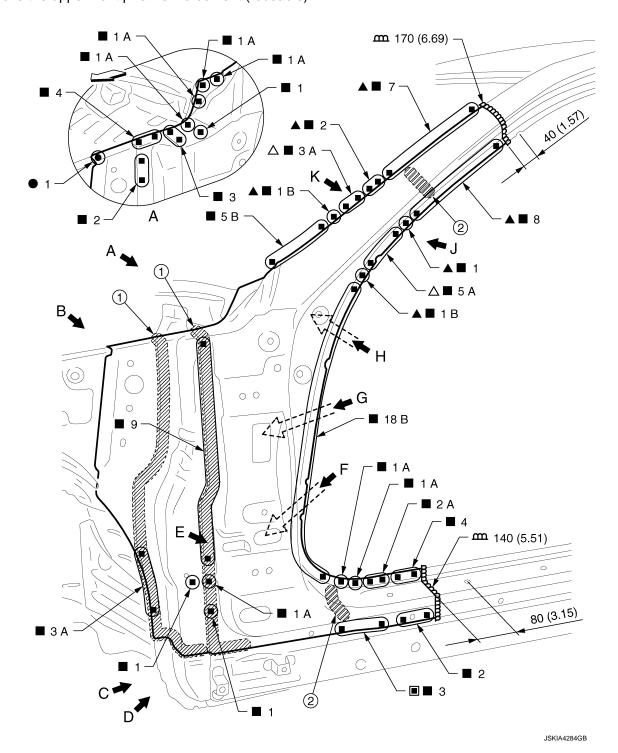
D

Е

F

Н

Work after hoodledge reinforcement is removed. Remove the upper front pillar reinforcement (reusable).



Body sealing

Urethane foam

Unit: mm (in)

∀
 □: Vehicle front

Perform the plug welding instead of the laser welding.

♠: Drill φ6 mm (0.24 in) hole for the plug welding hole (ultra high strength steel plate).

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

BRM

M

Ν

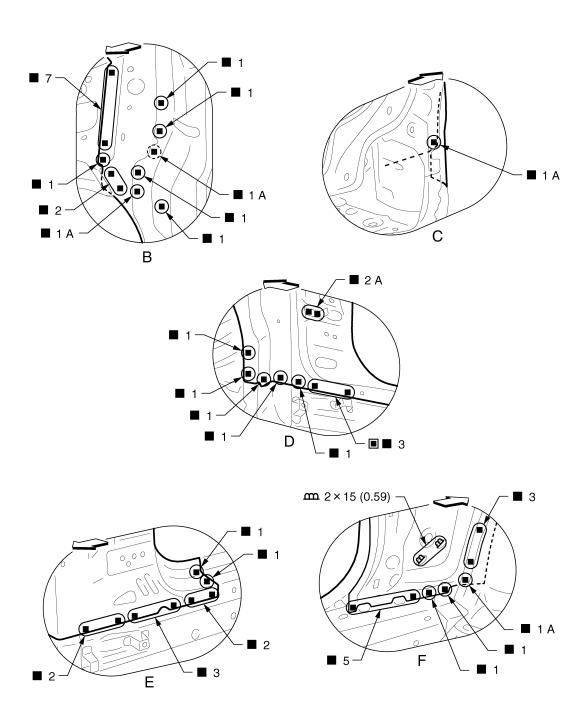
0

Р

Replacement parts

- Outer front side body
- Cowl top bracket extension
- Front pillar brace

Side dash

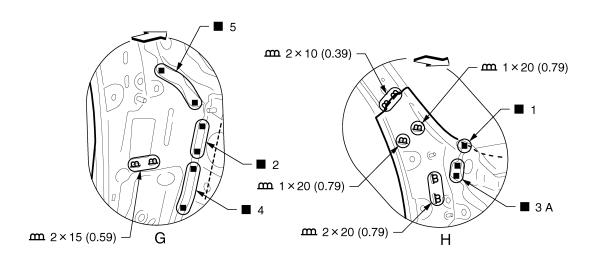


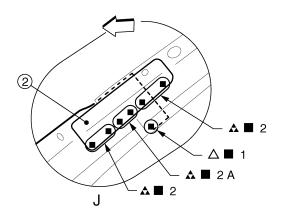
JSKIA3405GB

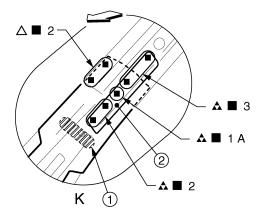
Unit: mm (in)

- ⟨□: Vehicle front
- Perform the plug welding instead of the laser welding.
- (): Weld the parts onto the back of the component part.

View E: Before installing outer front side body







BRM

J

Α

В

C

D

Е

F

Н

M

JSKIA7956GB

Urethane foam

Upper front pillar reinforcement (reusable)

0

Unit: mm (in)

⟨□: Vehicle front

Δ: Drill φ8 mm (0.31 in) hole for the plug welding hole (ultra high strength steel plate). Δ: Drill φ10 mm (0.39 in) hole for the plug welding hole (ultra high strength steel plate).

View J and K: Before installing outer front side body

VR30DDTT 2WD MODELS: Center Pillar

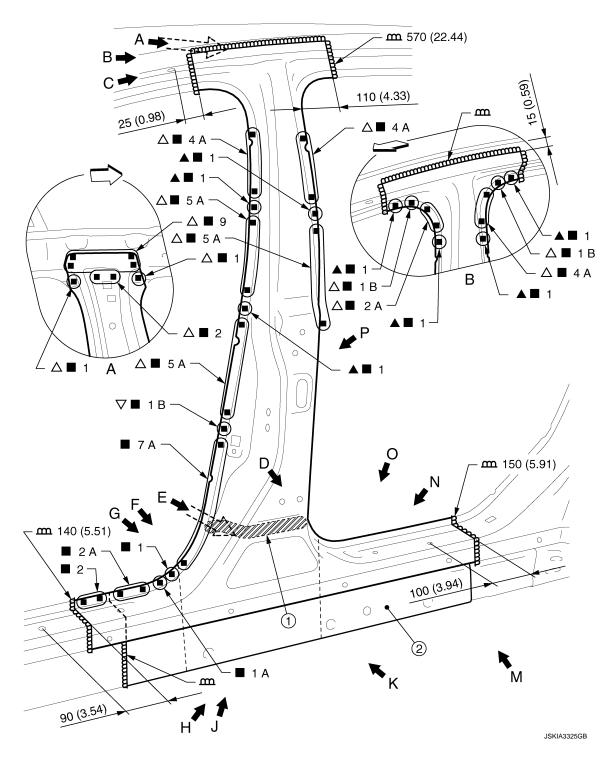
Remove the outer sill reinforcement (reusable).

BRM-51 Revision: November 2016 2016 Q50

Ν

Р

INFOID:0000000013505797



① Urethane foam

Outer sill reinforcement (reusable)

Unit: mm (in)

∀
 : Vehicle front

▲: Drill \$\phi6\$ mm (0.24 in) hole for the plug welding hole (ultra high strength steel plate).

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

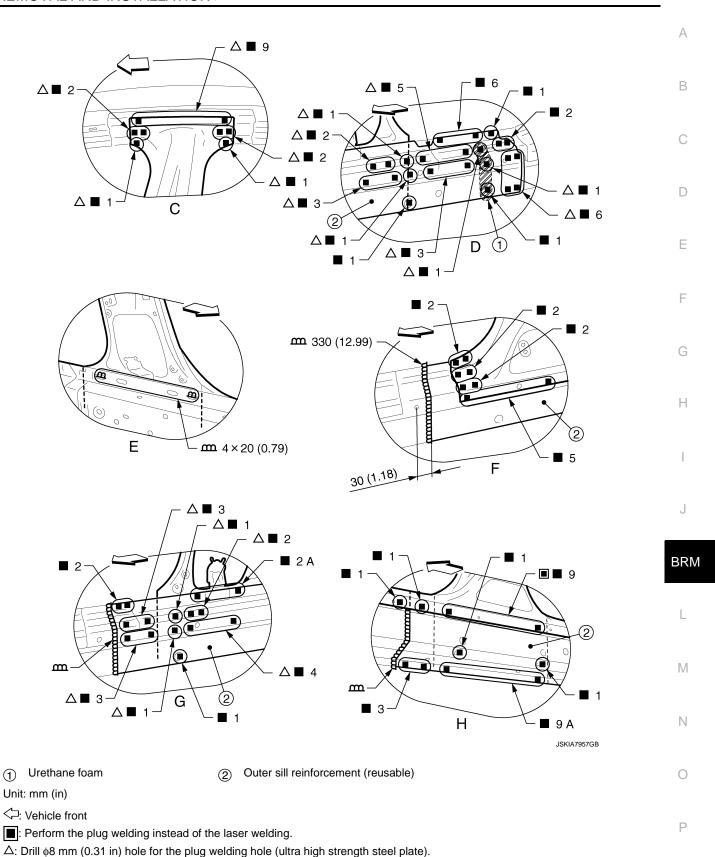
 ∇ : Drill ϕ 9 mm (0.35 in) hole for the plug welding hole (ultra high strength steel plate).

Replacement parts

Outer front side body

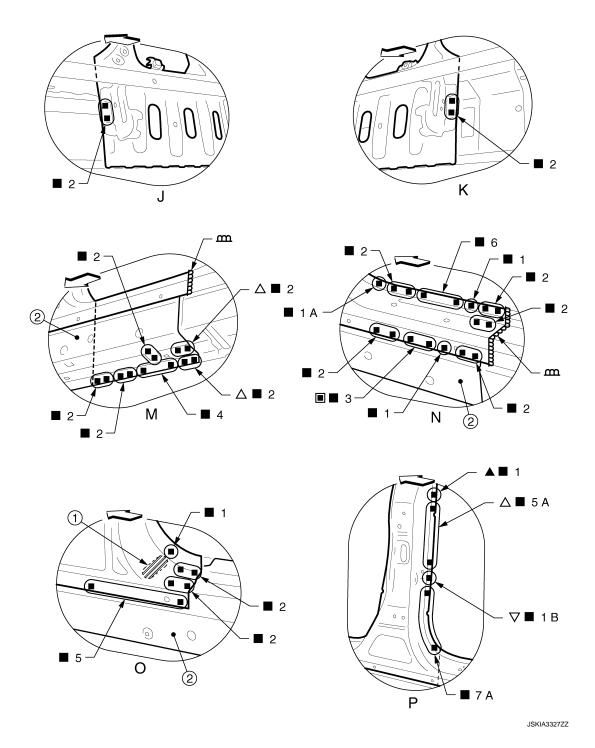
Center pillar reinforcement

Inner center pillar



View C and F: Before installing outer front side body

View D and G: Before installing outer front side body and center pillar reinforcement



1 Urethane foam

Outer sill reinforcement (reusable)

∀
 □: Vehicle front

Perform the plug welding instead of the laser welding.

▲: Drill \$\phi6\$ mm (0.24 in) hole for the plug welding hole (ultra high strength steel plate).

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

 ∇ : Drill ϕ 9 mm (0.35 in) hole for the plug welding hole (ultra high strength steel plate).

View J and K: Before installing outer front side body, center pillar reinforcement, and outer sill reinforcement (reusable)

View O: Before installing outer front side body

VR30DDTT 2WD MODELS : Outer Sill (Partial Replacement) INFOID:0000000012797702 Α В C D D **m** 140 (5.51) 0 13 A **m** 140 (5.51) Е F 60 (2.36) **△■** 3 A Н **2 m** 330 (12.99) 30 (1.18) В BRM m △ ■ 4- $\triangle \blacksquare 7$ **m** 330 (12.99) △■ 1 m M 55 (2.17) Ν 40 (1.57) $\triangle \blacksquare$ C D 0 JSKIA3328GB Unit: mm (in) ∀ : Vehicle front Р Perform the plug welding instead of the laser welding. \triangle : Drill $\phi 8$ mm (0.31 in) hole for the plug welding hole (ultra high strength steel plate). Replacement parts

View B, C, and D: Before installing outer sill

Outer sill

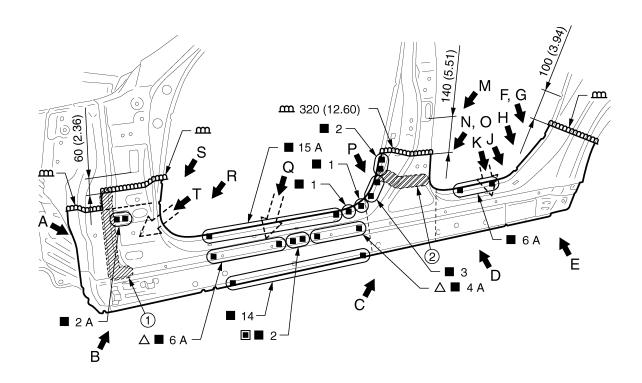
Outer sill reinforcement

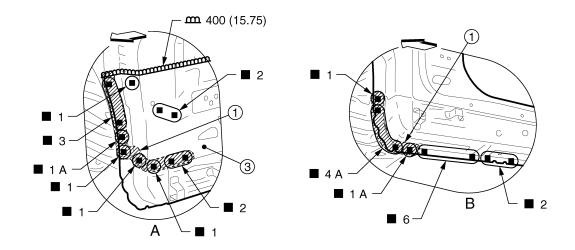
VR30DDTT 2WD MODELS: Outer Sill

INFOID:0000000013505799

Work after hoodledge reinforcement is removed.

Remove the front pillar brace (reusable) and center pillar reinforcement (reusable) for easier installation.





JSKIA7960GB

(1) Body sealing

(2) Urethane foam

Front pillar brace (reusable)

Unit: mm (in)

⟨□: Vehicle front

Perform the plug welding instead of the laser welding.

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

Replacement parts

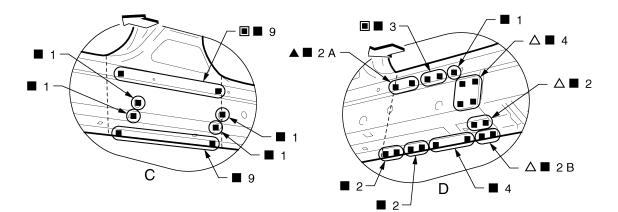
< REMOVAL AND INSTALLATION >

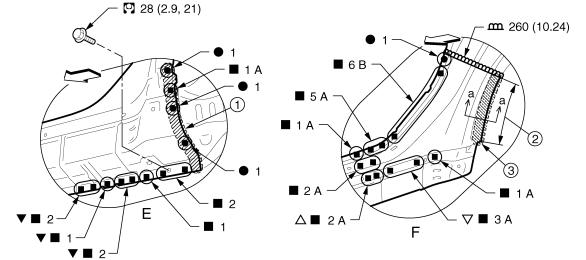
Outer sill

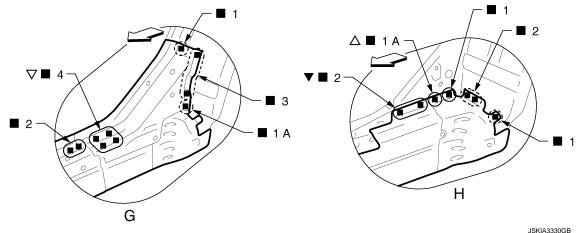
- Outer sill reinforcement
- Outer rear wheelhouse extension (Upper)

- Outer rear wheelhouse extension
 (Lower)
- Cowl top bracket extension

View A: Before installing outer sill and cowl top bracket extension







Body sealing

- (2) Hemming portion
- 3 Adhesive

Α

В

D

Е

F

G

Н

J

BRM

M

Ν

0

Р

< REMOVAL AND INSTALLATION >



∀ : Vehicle front

Perform the plug welding instead of the laser welding.

▲: Drill \$\phi6\$ mm (0.24 in) hole for the plug welding hole (ultra high strength steel plate).

▼: Drill \$7 mm (0.28 in) hole for the plug welding hole (ultra high strength steel plate).

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

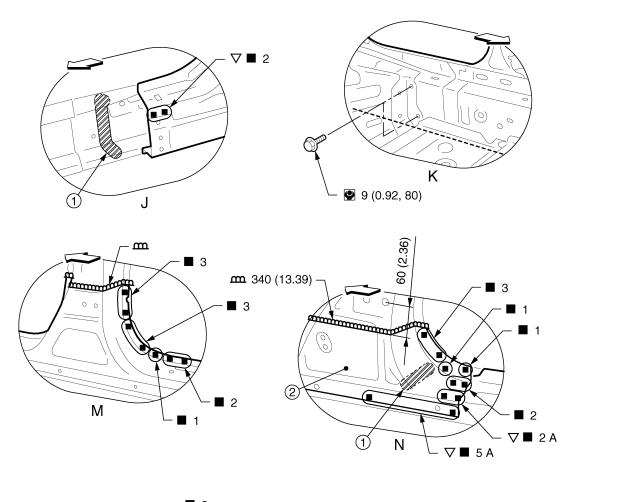
 ∇ : Drill ϕ 9 mm (0.35 in) hole for the plug welding hole (ultra high strength steel plate).

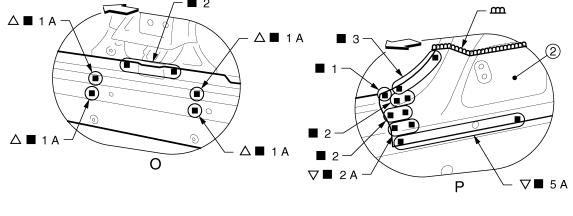
(): Weld the parts onto the back of the component part.

: N-m (kg-m, ft-lb)

View G: Before installing outer sill

View H: Before installing outer sill, outer sill reinforcement, and outer rear wheelhouse extension (upper)





Urethane foam

Center pillar reinforcement (reusable)

Unit: mm (in)

: Vehicle front

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

 ∇ : Drill $\phi 9$ mm (0.35 in) hole for the plug welding hole (ultra high strength steel plate).

P: N·m (kg-m, in-lb)

View J: Before installing outer sill and outer sill reinforcement

View N and P: Before installing outer sill

View O: Before installing outer sill and center pillar reinforcement (reusable)

BRM

J

Α

В

C

D

Е

F

Н

L

M

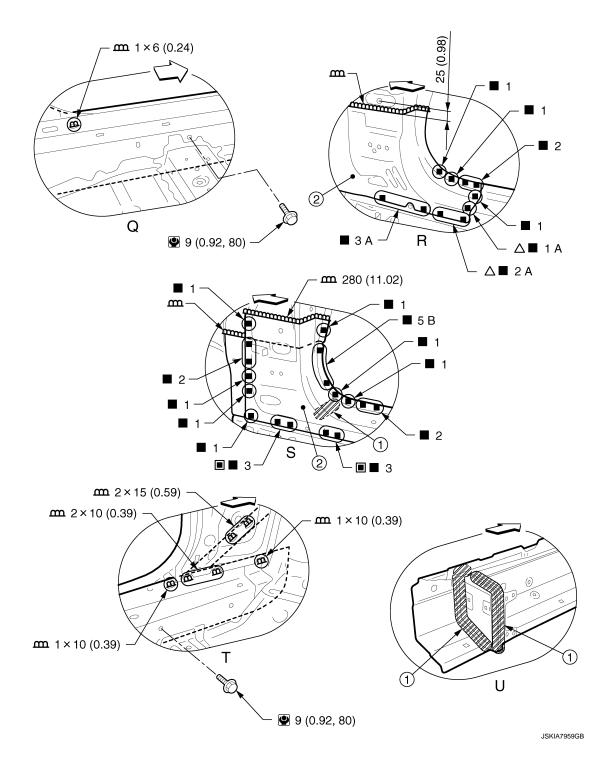
Ν

0

JSKIA7958GB

Р

Revision: November 2016 BRM-59 2016 Q50



① Urethane foam

(2) Front pillar brace (reusable)

Unit: mm (in)

∵: Vehicle front

Perform the plug welding instead of the laser welding.

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

P: N·m (kg-m, in-lb)

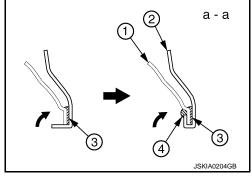
View R: Before installing outer sill

View U: Outer sill reinforcement (replacement parts)

POINT

< REMOVAL AND INSTALLATION >

- Perform the hemming to the flange of wheelarch after applying the adhesive.
- Apply the sealing to the flange end.
- Refer to <u>BRM-36</u>. "Rear Fender Hemming Process".
 - ① Outer rear wheelhouse
 - ② Rear fender
 - 3 Adhesive
 - (4) Sealant



Α

В

С

D

Е

F

G

Н

J

BRM

L

M

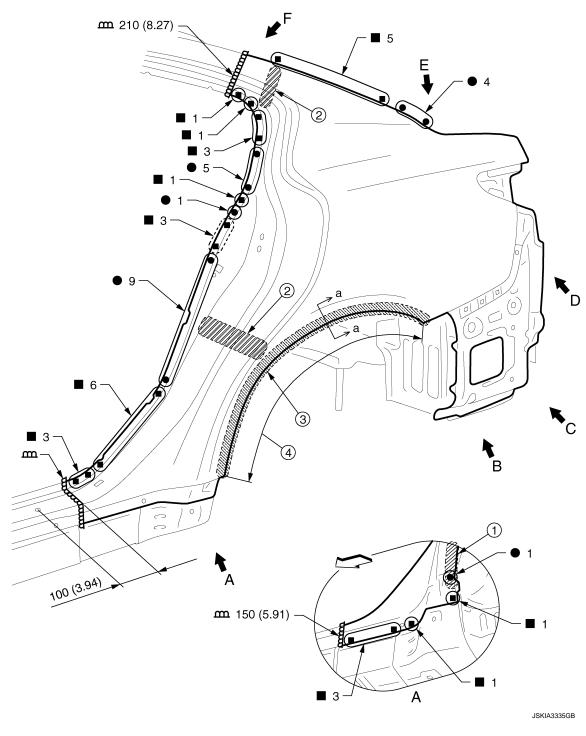
Ν

0

Р

VR30DDTT 2WD MODELS: Rear Fender

INFOID:0000000012797704



Body sealing

② Urethane foam

(3) Adhesive

4 Hemming portion

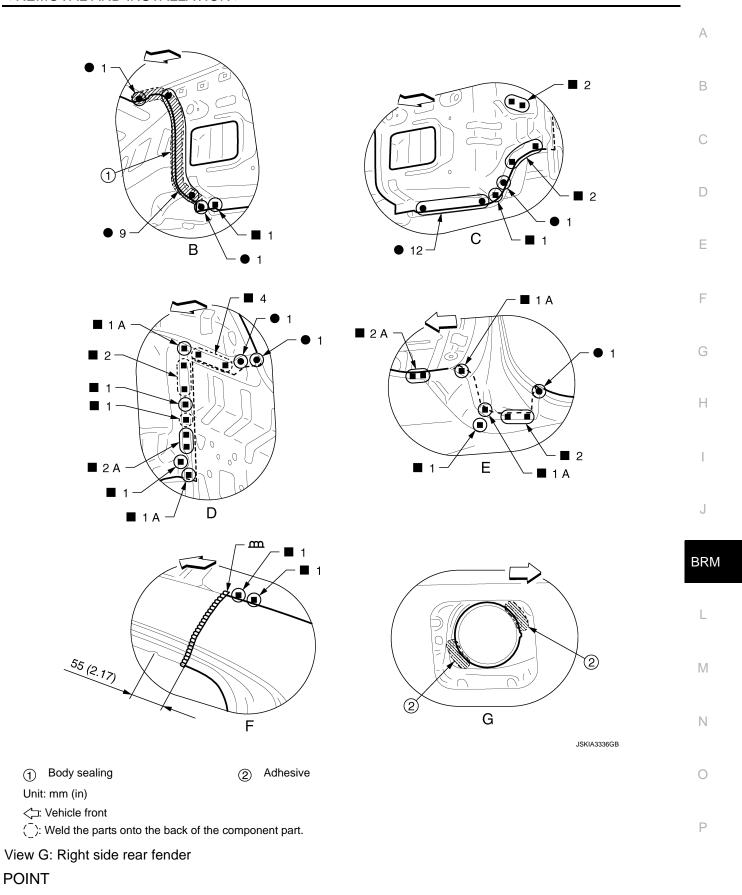
Unit: mm (in)

⟨
⇒: Vehicle front

 $\begin{picture}(1)\line(1)\l$

Replacement parts

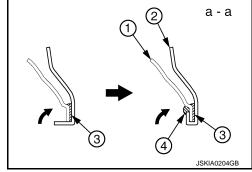
Rear fender



Revision: November 2016 BRM-63 2016 Q50

< 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-36, "Rear Fender Hemming Process".
 - ① Outer rear wheelhouse
 - ② Rear fender
 - 3 Adhesive
 - (4) Sealant



VR30DDTT 2WD MODELS: Rear Panel

INFOID:0000000012797705

Α

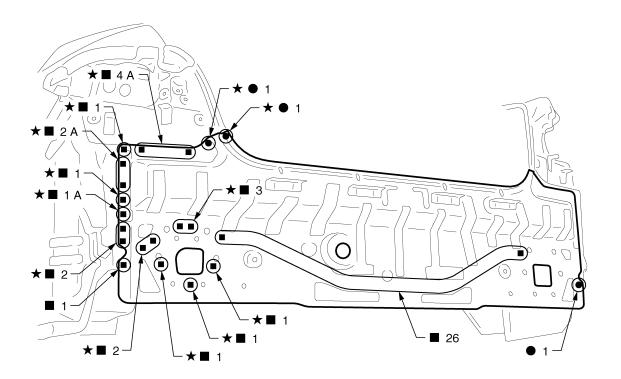
В

D

Е

F

Н



BRM

J

M

Ν

Р

JSKIA3345ZZ

★: Welding method and the number of welding points apply to both side of the vehicle. Replacement parts

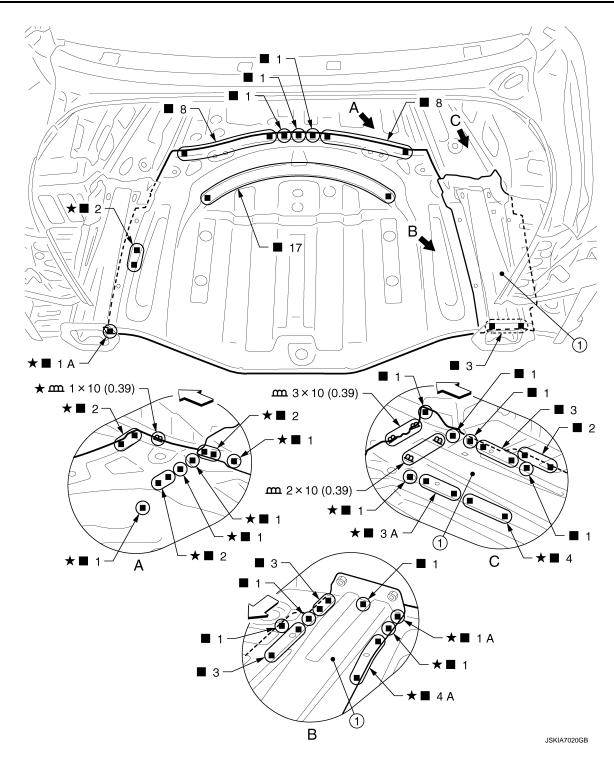
Upper rear panel assembly

VR30DDTT 2WD MODELS: Rear Floor Rear

INFOID:0000000013505773

Work after rear panel is removed. Remove the rear floor rear side (reusable).

Revision: November 2016 BRM-65



(1) Rear floor rear side (reusable)

Unit: mm (in)

- ∵: Vehicle front
- (): Weld the parts onto the back of the component part.
- \bigstar : Welding method and the number of welding points apply to both side of the vehicle.

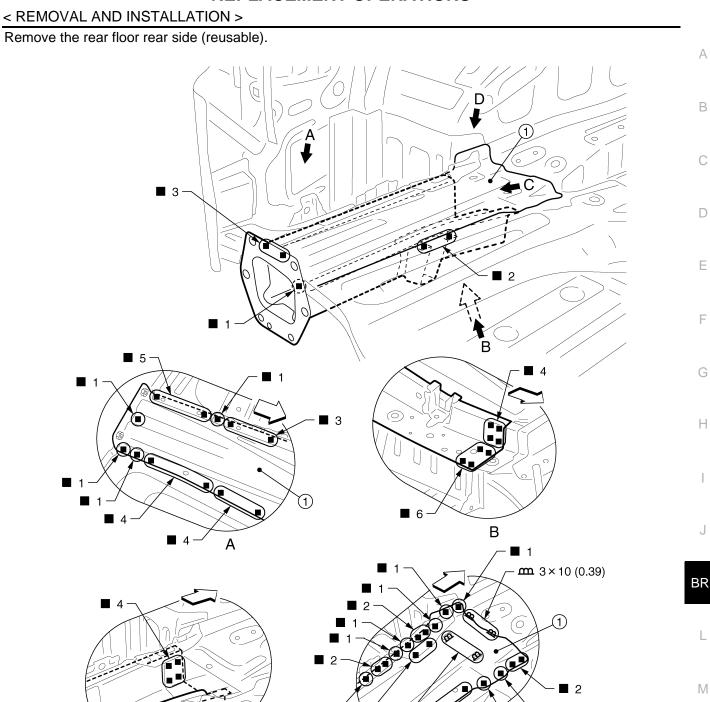
Replacement parts

Rear floor rear

VR30DDTT 2WD MODELS: Rear Side Member Extension

INFOID:0000000013505774

Work after rear panel is removed.



BRM

Ν

0

Р

JSKIA7021GB

(1) Rear floor rear side (reusable)

Unit: mm (in)

 \triangleleft : Vehicle front

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

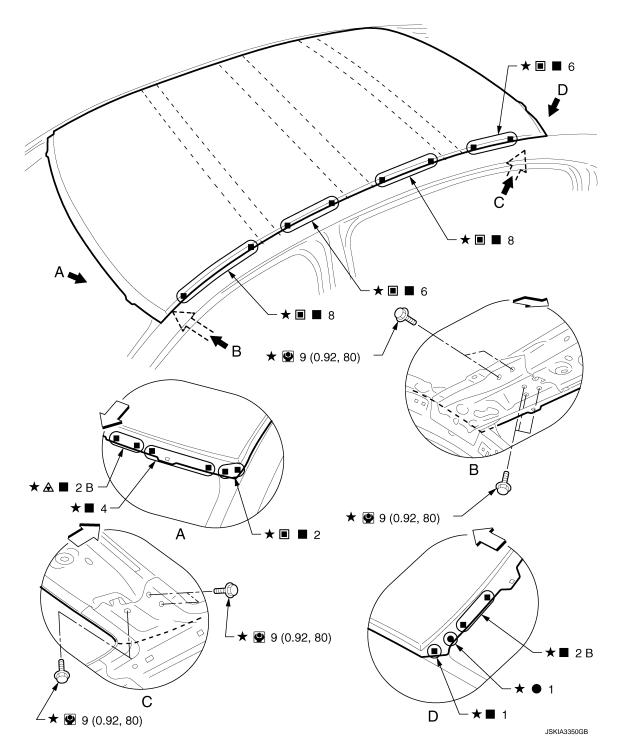
Replacement parts

• Rear side member extension

View C: Before installing rear floor rear side (reusable)

m 2×10 (0.39)

D



∀
 □: Vehicle front

Perform the plug welding instead of the laser welding.

A: Drill ∮12 mm (0.47 in) hole for the plug welding hole (ultra high strength steel plate).

★: Welding method and the number of welding points apply to both side of the vehicle.

: N·m (kg-m, in-lb)

Replacement parts

Roof assembly

VR30DDTT 2WD MODELS : Roof (Sunroof)

INFOID:0000000012797709

Α

В

D

Е

F

Н

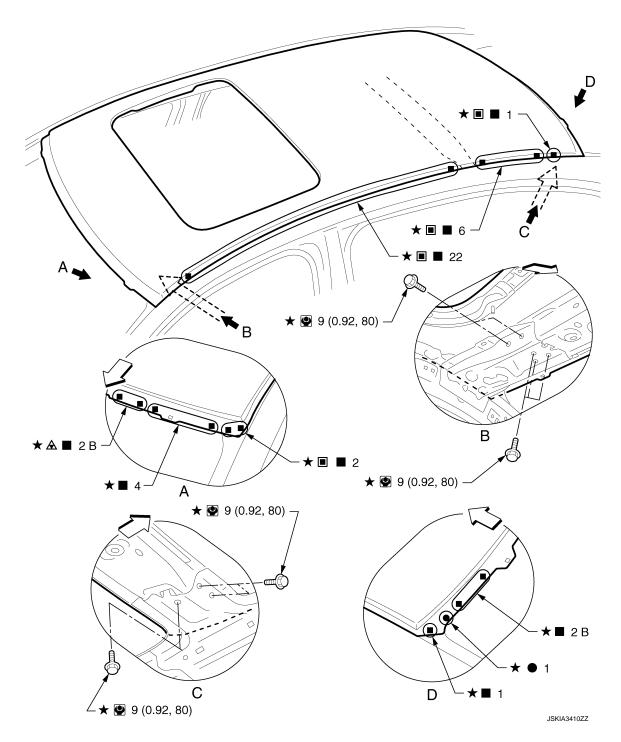
BRM

M

Ν

0

Р



∀
 □: Vehicle front

Perform the plug welding instead of the laser welding.

△: Drill \$12 mm (0.47 in) hole for the plug welding hole (ultra high strength steel plate).

★: Welding method and the number of welding points apply to both side of the vehicle.

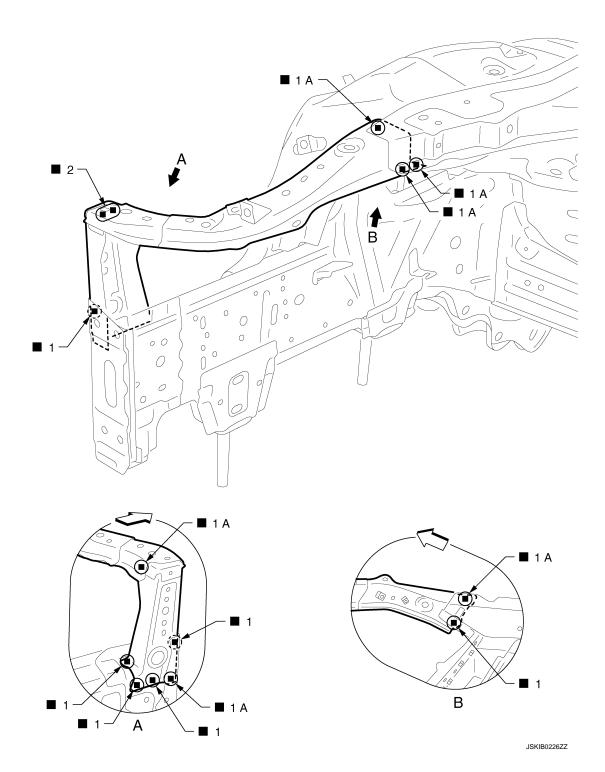
P: N·m (kg-m, in-lb)

Replacement parts

Roof assembly

< REMOVAL AND INSTALLATION >

2.0L TURBO GASOLINE ENGINE MODELS AND VR30DDTT AWD MODELS 2.0L TURBO GASOLINE ENGINE MODELS AND VR30DDTT AWD MODELS : Radiator Core Support



 <sup>∀
 □:</sup> Vehicle front

Replacement parts

Side radiator core support

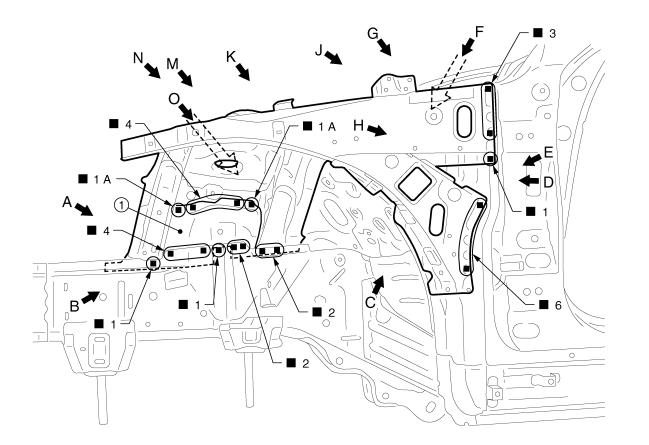
 Front side member connector assembly

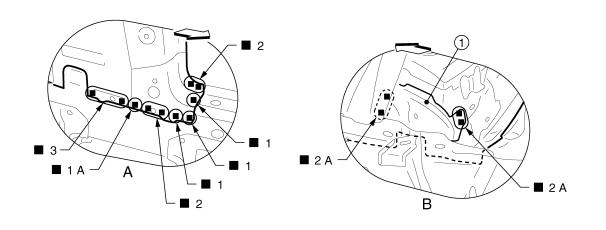
^{():} Weld the parts onto the back of the component part.

< REMOVAL AND INSTALLATION >

2.0L TURBO GASOLINE ENGINE MODELS AND VR30DDTT AWD MODELS : Hoodledge INFOID:0000000012797712

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





- Front side member center closing plate (reusable)
- ⟨□: Vehicle front
- (): Weld the parts onto the back of the component part.

Replacement parts

- Upper front hoodledge
- Hoodledge reinforcement
- Front strut housing

BRM

J

В

D

Е

F

Н

M

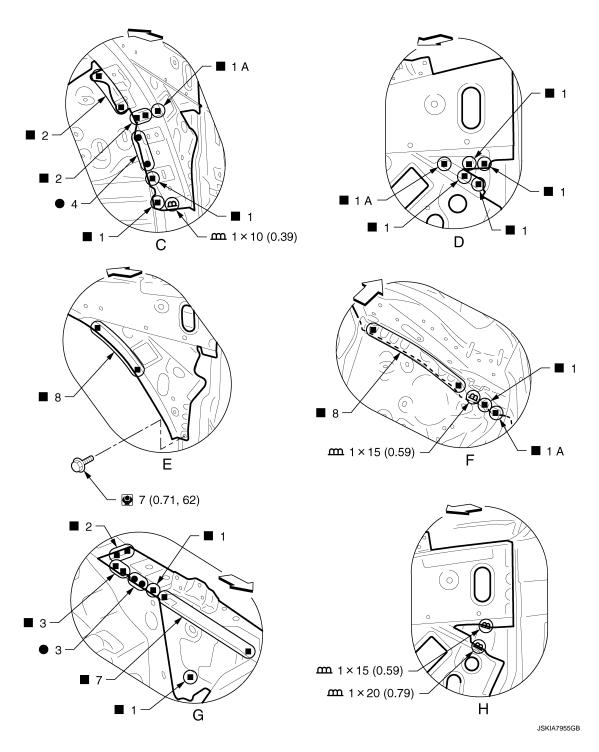
Ν

0

Р

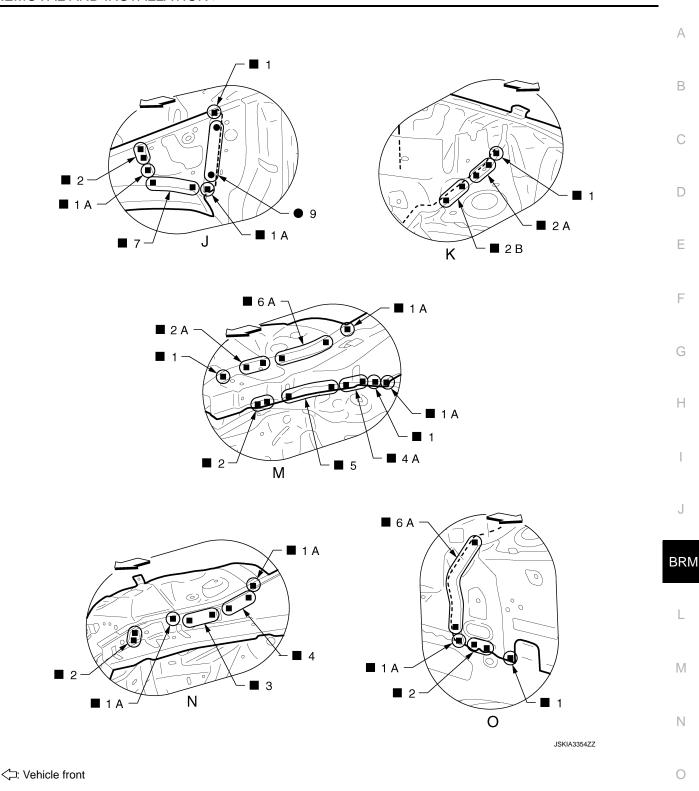
JSKIA331577

BRM-71



Unit: mm (in)

: N·m (kg-m, in-lb)



View J and N: Before installing hoodledge reinforcement

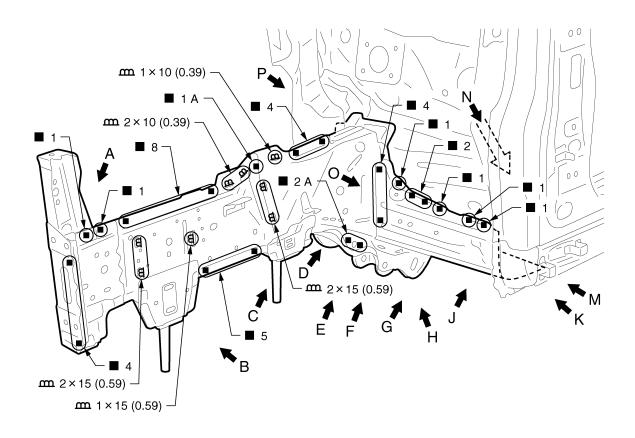
2.0L TURBO GASOLINE ENGINE MODELS AND VR30DDTT AWD MODELS : Front Side Member

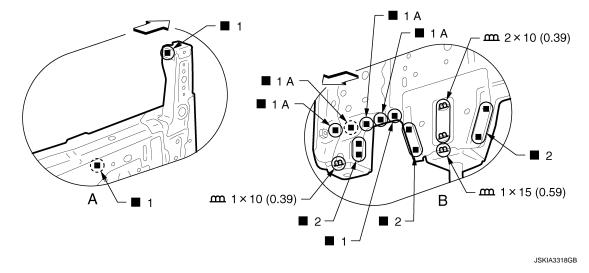
Work after radiator core support and hoodledge are removed.

Remove the front side member outrigger (reusable).

Remove the front side member center closing plate (reusable) from the service part "front side member closing plate assembly" for easier installation of hoodledge.

Revision: November 2016 BRM-73 2016 Q50





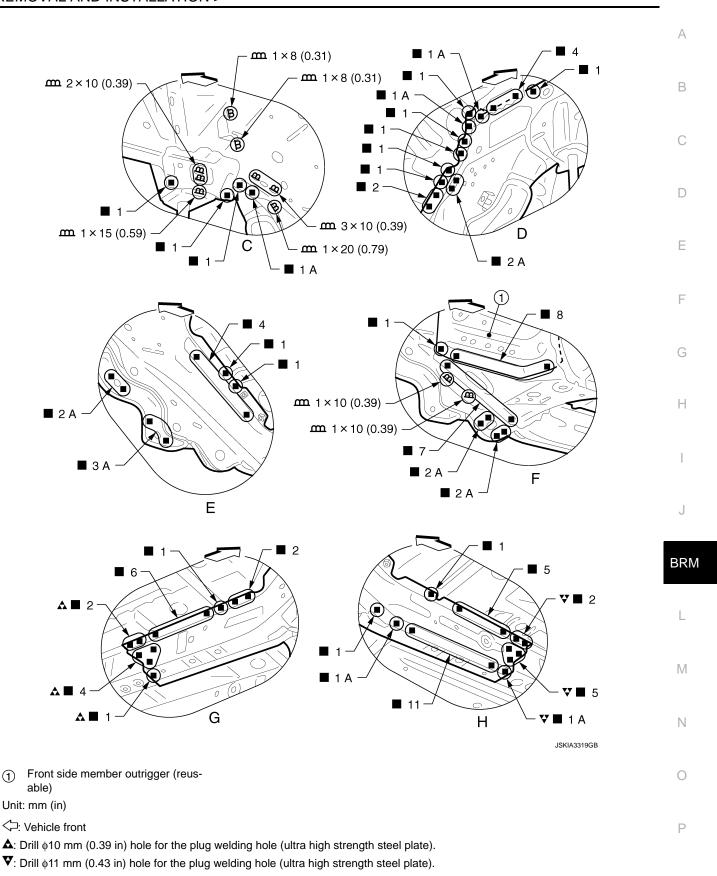
Unit: mm (in)

∀
 □: Vehicle front

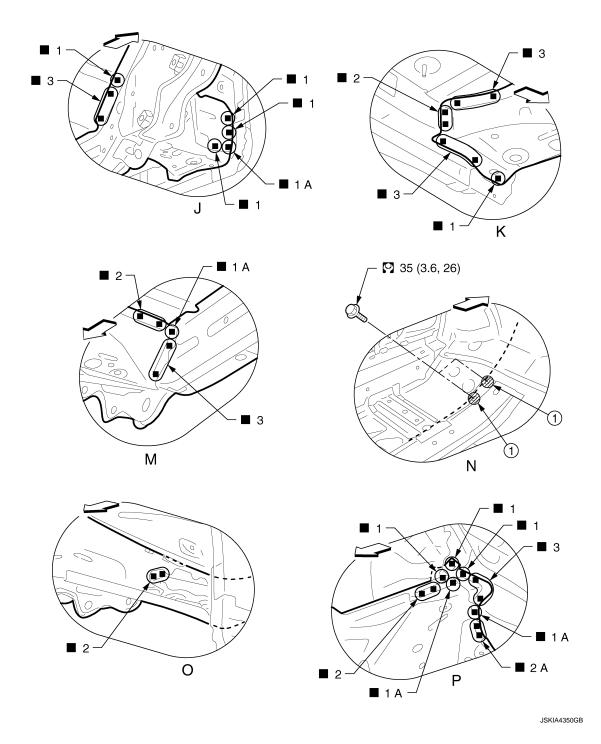
 $\ref{eq:component}$. Weld the parts onto the back of the component part.

Replacement parts

- Front side member assembly
- Front side member closing plate assembly
- Front side member outrigger assembly



View E and H: Before installing front side member outrigger assembly



Body sealing

∵: Vehicle front

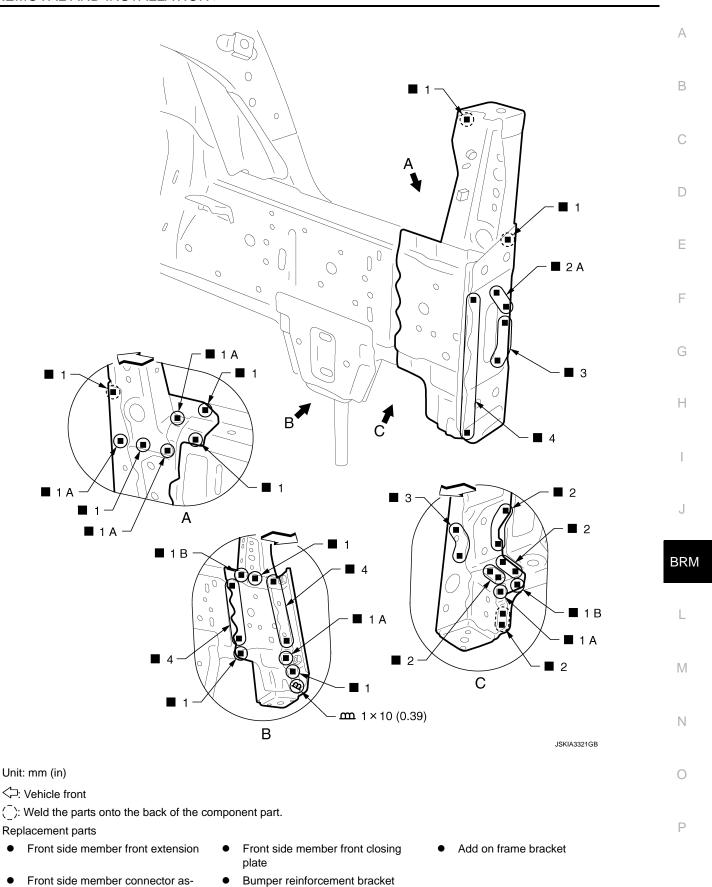
: N·m (kg-m, ft-lb)

View O: Before installing front side member outrigger (reusable)

2.0L TURBO GASOLINE ENGINE MODELS AND VR30DDTT AWD MODELS: Front Side Member (Partial Replacement)

Work after side radiator core support is removed.

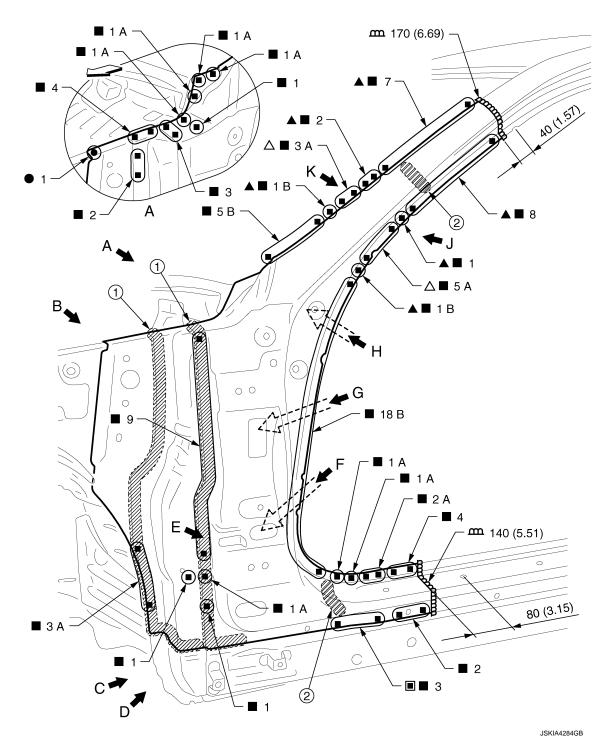
sembly



2.0L TURBO GASOLINE ENGINE MODELS AND VR30DDTT AWD MODELS: Front

Pillar

Work after hoodledge reinforcement is removed. Remove the upper front pillar reinforcement (reusable).



(1) Body sealing

(2) Urethane foam

Unit: mm (in)

⟨□: Vehicle front

Perform the plug welding instead of the laser welding.

▲: Drill φ6 mm (0.24 in) hole for the plug welding hole (ultra high strength steel plate).

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

< REMOVAL AND INSTALLATION >

Replacement parts

- Outer front side body
- Cowl top bracket extension
- Front pillar brace

Side dash

В

Α

С

D

Е

F

G

Н

BRM

M

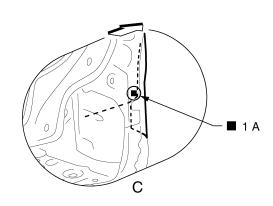
Ν

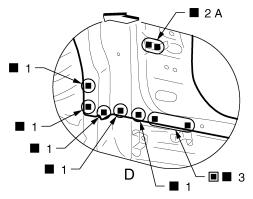
0

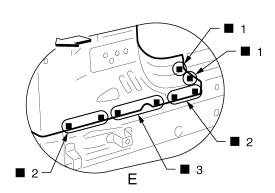
Р

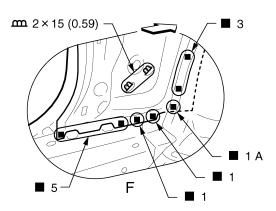
JSKIA3405GB

1 1 1 A B









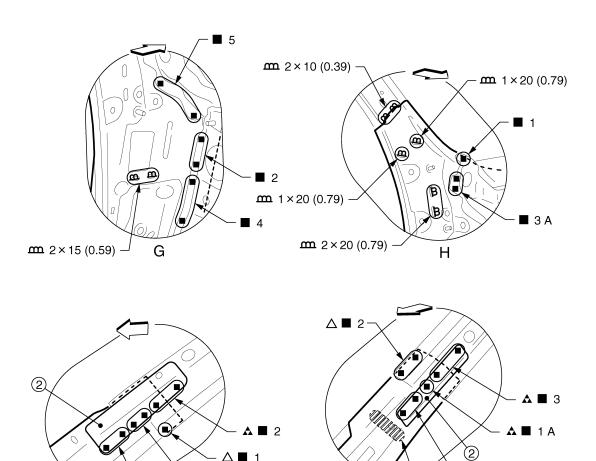
Unit: mm (in)

⟨□: Vehicle front

Perform the plug welding instead of the laser welding.

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

View E: Before installing outer front side body



JSKIA7956GB

① Urethane foam

Upper front pillar reinforcement (reusable)

Unit: mm (in)

∀
 □: Vehicle front

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

▲ ■ 2 A

∧ ■ 2

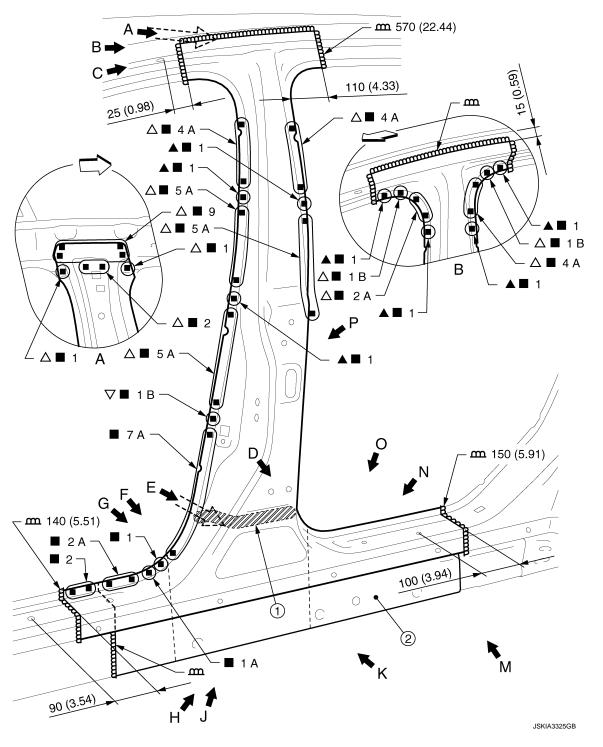
Δ: Drill φ10 mm (0.39 in) hole for the plug welding hole (ultra high strength steel plate).

View J and K: Before installing outer front side body

2.0L TURBO GASOLINE ENGINE MODELS AND VR30DDTT AWD MODELS : Cen-

ter Pillar INFOID:0000000013505798

Remove the outer sill reinforcement (reusable).



Urethane foam

Outer sill reinforcement (reusable)

Unit: mm (in)

∀
 □: Vehicle front

▲: Drill \$\phi6\$ mm (0.24 in) hole for the plug welding hole (ultra high strength steel plate).

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

 ∇ : Drill ϕ 9 mm (0.35 in) hole for the plug welding hole (ultra high strength steel plate).

BRM-81 Revision: November 2016 2016 Q50

BRM

Α

В

D

Е

F

Н

M

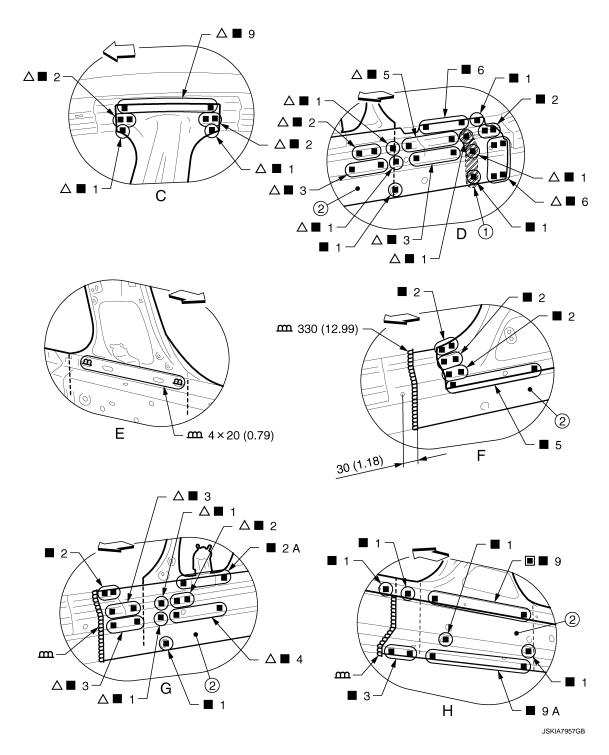
Ν

0

Р

Replacement parts

- Outer front side body
- Center pillar reinforcement
- Inner center pillar



① Urethane foam

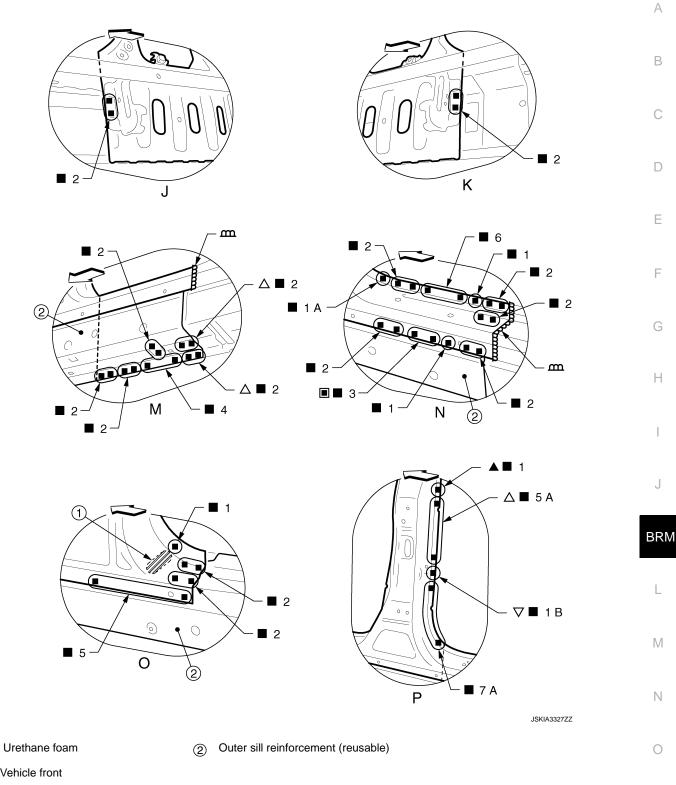
Outer sill reinforcement (reusable)

Unit: mm (in)

- ∀
 □: Vehicle front
- Perform the plug welding instead of the laser welding.
- \triangle : Drill $\phi 8$ mm (0.31 in) hole for the plug welding hole (ultra high strength steel plate).

View C and F: Before installing outer front side body

View D and G: Before installing outer front side body and center pillar reinforcement



∀
 ∴: Vehicle front

Perform the plug welding instead of the laser welding.

Δ: Drill φ6 mm (0.24 in) hole for the plug welding hole (ultra high strength steel plate).

Δ: Drill φ8 mm (0.31 in) hole for the plug welding hole (ultra high strength steel plate).

∇: Drill \$\phi\$9 mm (0.35 in) hole for the plug welding hole (ultra high strength steel plate).

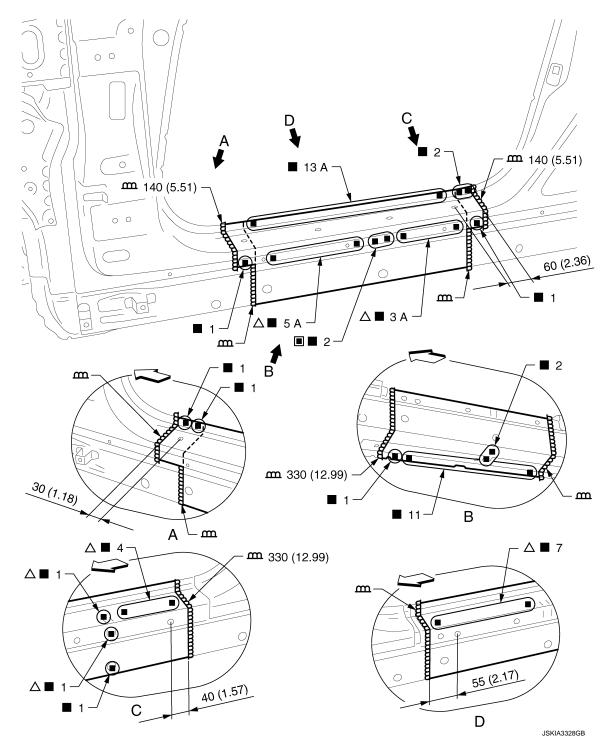
View J and K: Before installing outer front side body, center pillar reinforcement, and outer sill reinforcement (reusable)

Р

View O: Before installing outer front side body

BRM-83 Revision: November 2016 2016 Q50

2.0L TURBO GASOLINE ENGINE MODELS AND VR30DDTT AWD MODELS : Outer Sill (Partial Replacement)



Unit: mm (in)

∀
 □: Vehicle front

Perform the plug welding instead of the laser welding.

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

Replacement parts

Outer sill

Outer sill reinforcement

View B, C, and D: Before installing outer sill

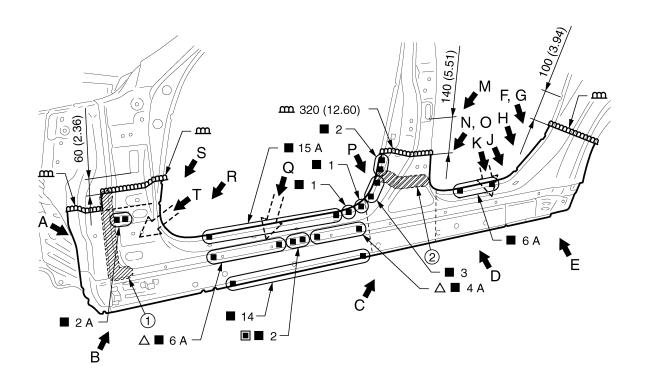
< REMOVAL AND INSTALLATION >

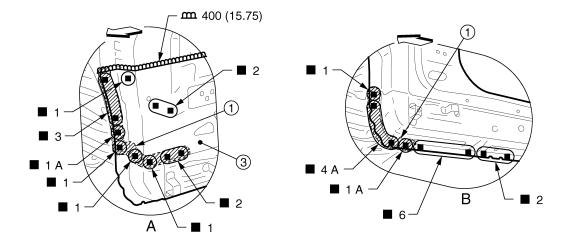
2.0L TURBO GASOLINE ENGINE MODELS AND VR30DDTT AWD MODELS :

Outer Sill

Work after hoodledge reinforcement is removed.

Remove the front pillar brace (reusable) and center pillar reinforcement (reusable) for easier installation.





BRM

Α

В

C

D

Е

F

Н

M

Ν

0

JSKIA7960GB

Body sealing

② Urethane foam

Front pillar brace (reusable)

Unit: mm (in)

∀
 : Vehicle front

Perform the plug welding instead of the laser welding.

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

Revision: November 2016 BRM-85 2016 Q50

< REMOVAL AND INSTALLATION >

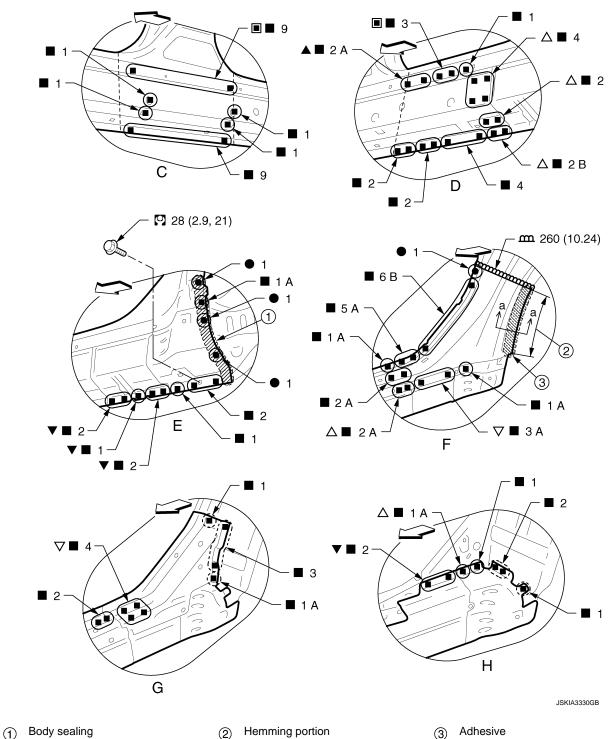
Replacement parts

Outer sill

- Outer sill reinforcement
- Outer rear wheelhouse extension (Upper)

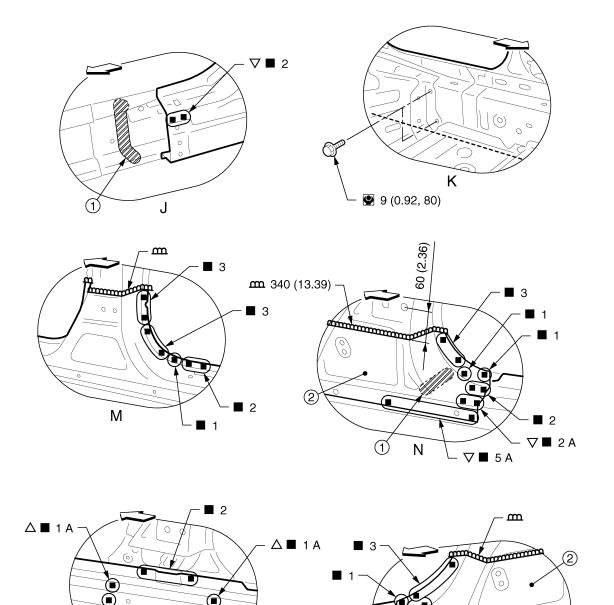
- Outer rear wheelhouse extension (Lower)
- Cowl top bracket extension

View A: Before installing outer sill and cowl top bracket extension



< REMOVAL AND INSTALLATION >	
Unit: mm (in)	^
∀⊇: Vehicle front	А
■: Perform the plug welding instead of the laser welding.▲: Drill \(\phi \) 6 mm (0.24 in) hole for the plug welding hole (ultra high strength steel plate).	
▼: Drill \$7 mm (0.28 in) hole for the plug welding hole (ultra high strength steel plate).	В
Δ : Drill $\phi 8$ mm (0.31 in) hole for the plug welding hole (ultra high strength steel plate).	
∇: Drill φ9 mm (0.35 in) hole for the plug welding hole (ultra high strength steel plate).	С
(): Weld the parts onto the back of the component part.	
N·m (kg-m, ft-lb)	_
View G: Before installing outer sill View H: Before installing outer sill, outer sill reinforcement, and outer rear wheelhouse extension (upper)	D
view 11. Delote instaining outer siii, outer siii reinforcement, and outer real wheelhouse extension (upper)	
	Е
	F
	0
	G
	Н
	J
	· ·
	BR
	L
	M
	NI
	Ν
	0
	Р

Revision: November 2016 BRM-87 2016 Q50



JSKIA7958GB

▽■ 5 A

Р

(1) Urethane foam

△ ■ 1 A

Center pillar reinforcement (reusable)

▽■ 2 A

△ ■ 1 A

Unit: mm (in)

∀
 : Vehicle front

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

 ∇ : Drill $\phi 9$ mm (0.35 in) hole for the plug welding hole (ultra high strength steel plate).

: N·m (kg-m, in-lb)

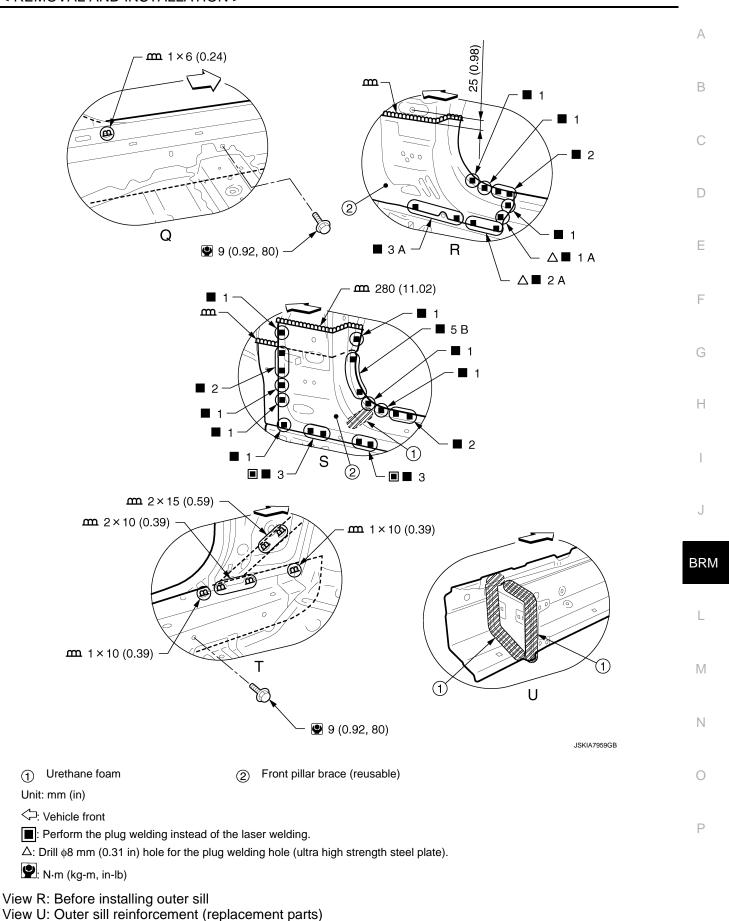
View J: Before installing outer sill and outer sill reinforcement

0

View N and P: Before installing outer sill

View O: Before installing outer sill and center pillar reinforcement (reusable)

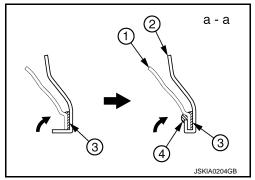
POINT



Revision: November 2016 BRM-89 2016 Q50

< 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-36, "Rear Fender Hemming Process".
 - 1 Outer rear wheelhouse
 - ② Rear fender
 - 3 Adhesive
 - (4) Sealant



2.0L TURBO GASOLINE ENGINE MODELS AND VR30DDTT AWD MODELS: Rear

< REMOVAL AND INSTALLATION > Fender INFOID:0000000012797719 Α **m** 210 (8.27) В **5** D Е F G Н **6** BRM 100 (3.94) M **m** 150 (5.91) Ν Α 0 JSKIA3335GB 3 Adhesive Body sealing Urethane foam Hemming portion Р 4

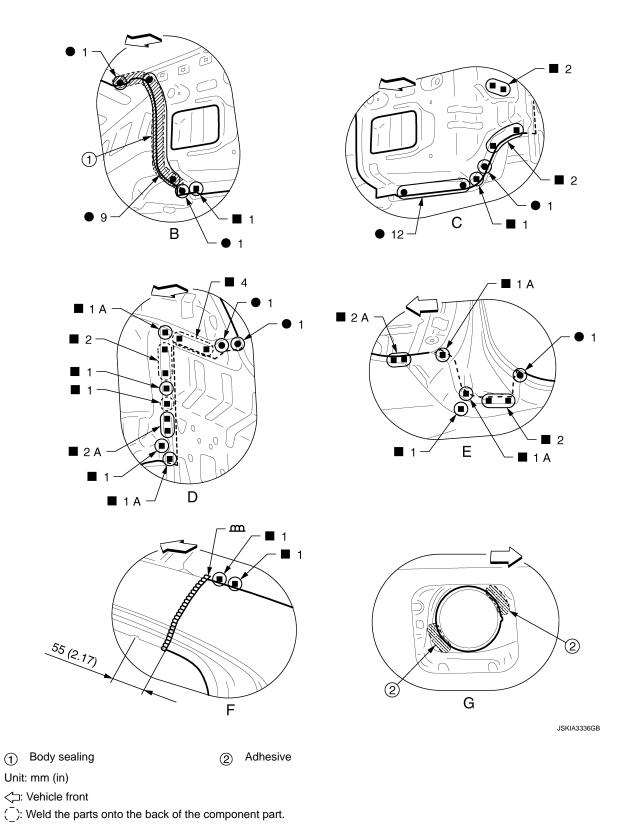
Unit: mm (in)

⟨
⇒: Vehicle front

 $\begin{picture}() \put(0,0){\line(0,0){10}} \put(0,0){\l$

Replacement parts

Rear fender

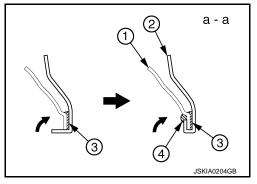


View G: Right side rear fender

POINT

< 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-36, "Rear Fender Hemming Process".
 - ① Outer rear wheelhouse
 - ② Rear fender
 - 3 Adhesive
 - Sealant



2.0L TURBO GASOLINE ENGINE MODELS AND VR30DDTT AWD MODELS:

Е

F

 D

Α

В

G

Н

J

BRM

L

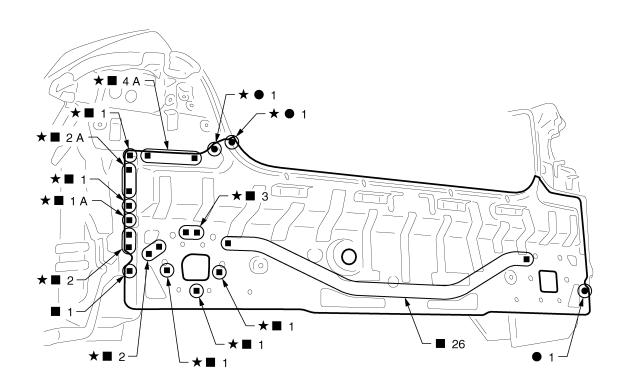
M

Ν

0

Р

Rear Panel



JSKIA3345ZZ

- \bigstar : Welding method and the number of welding points apply to both side of the vehicle. Replacement parts
- Upper rear panel assembly

2.0L TURBO GASOLINE ENGINE MODELS AND VR30DDTT AWD MODELS : Rear Floor Rear

Work after rear panel is removed. Remove the rear floor rear side (reusable).

Revision: November 2016 BRM-94 2016 Q50

Α

В

D

Е

F

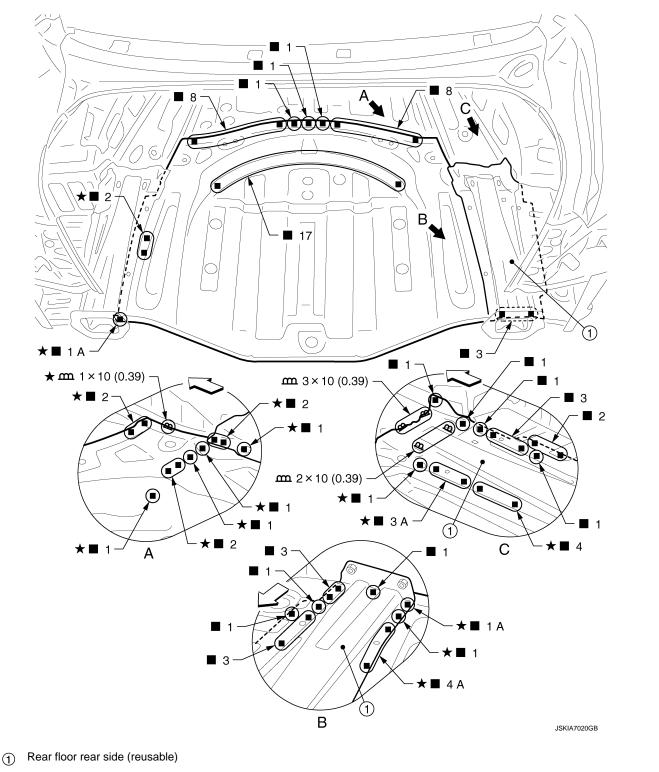
Н

BRM

Ν

0

Р



Unit: mm (in)

∀
 : Vehicle front

 $\hfill \hfill \hfill$

★: Welding method and the number of welding points apply to both side of the vehicle.

Replacement parts

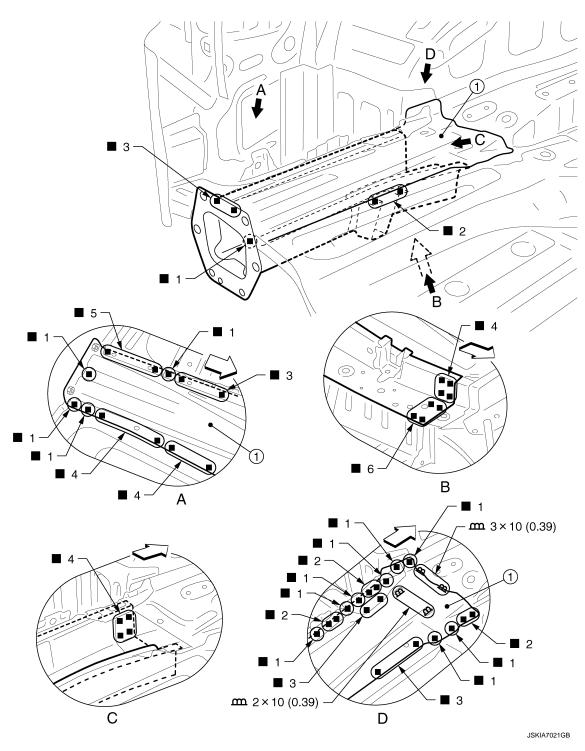
Rear floor rear

2.0L TURBO GASOLINE ENGINE MODELS AND VR30DDTT AWD MODELS: Rear

Side Member Extension

INFOID:0000000013505777

Work after rear panel is removed. Remove the rear floor rear side (reusable).



① Rear floor rear side (reusable)

Unit: mm (in)

⟨□: Vehicle front

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

Replacement parts

Rear side member extension

View C: Before installing rear floor rear side (reusable)

2.0L TURBO GASOLINE ENGINE MODELS AND VR30DDTT AWD MODELS: Roof

IFOID:0000000012797723

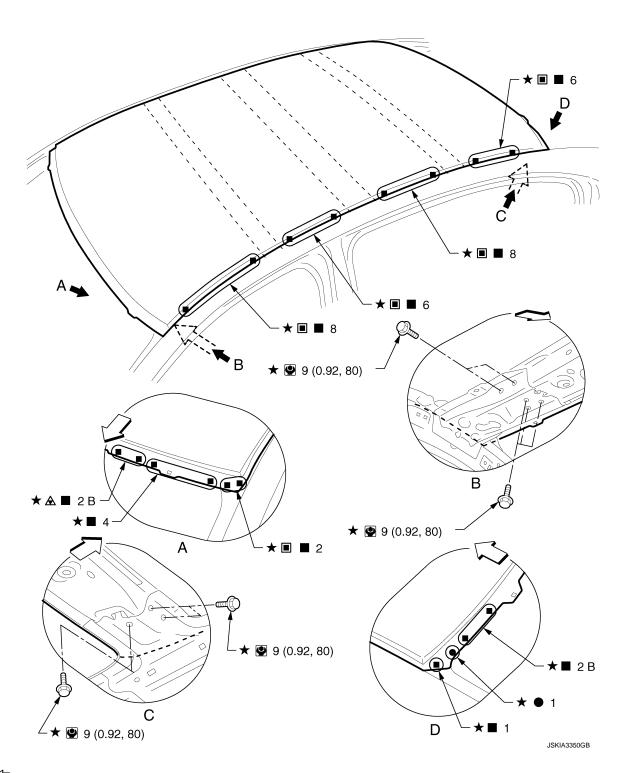
В

D

Е

F

Н



: Vehicle front

Perform the plug welding instead of the laser welding.

 Δ : Drill ϕ 12 mm (0.47 in) hole for the plug welding hole (ultra high strength steel plate).

★: Welding method and the number of welding points apply to both side of the vehicle.

: N·m (kg-m, in-lb)

BRM

M

Ν

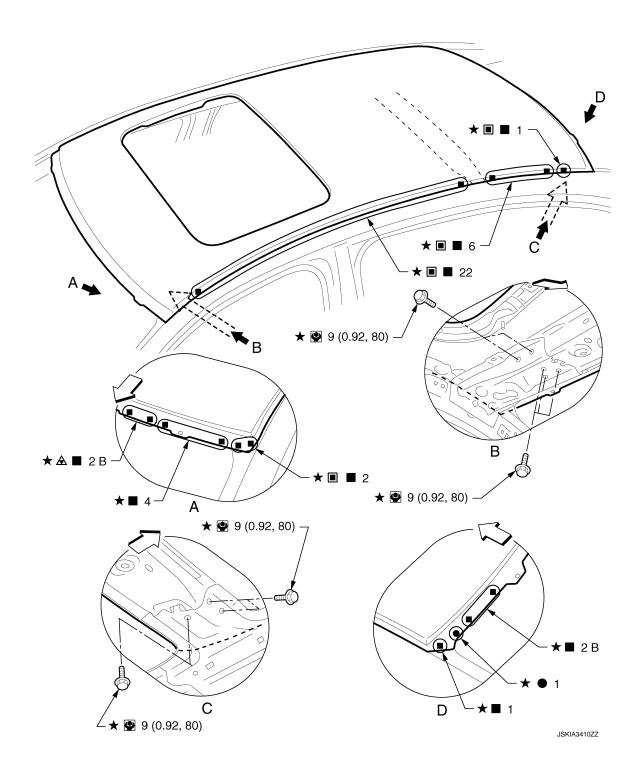
0

Р

Replacement parts

Roof assembly

2.0L TURBO GASOLINE ENGINE MODELS AND VR30DDTT AWD MODELS : Roof (Sunroof)



< REMOVAL AND INSTALLATION >

∵: Vehicle front	Α
 ■: Perform the plug welding instead of the laser welding. ⚠: Drill	Е
Replacement parts Roof assembly	
	Е
	F
	(-
	Н
	I
	BF
	L
	N
	Ν
	C
	F
	C

Revision: November 2016 BRM-99 2016 Q50

FRONT COMBINATION LAMP

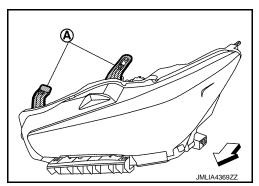
Installing service bracket

If only part A as shown in the figure is damaged, and front combination lamp housing itself is not damaged, repair can be completed easily by installing service brackets.

: Vehicle front

CAUTION:

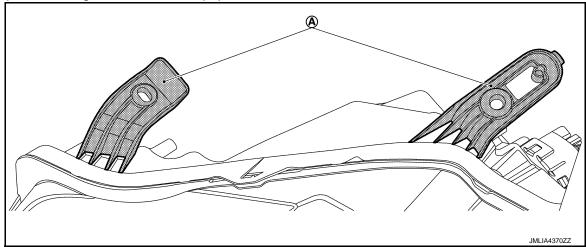
- Installation of service bracket is possible only if part (A) is damaged.
- If front combination housing or other part of front combination lamp except part (A) is damaged, replace front combination lamp assembly.



INFOID:0000000012797725

Removal

- 1. Remove front combination lamp. Refer to EXL-212, "Removal and Installation".
- 2. If part (A) is damaged, cut the whole part from fixing section to the front combination lamp housing, then shape the cutting surface with sandpaper.



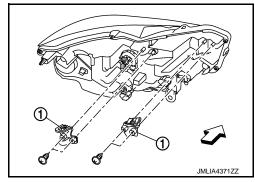
CAUTION

Be careful to not shape the cutting surface more than necessary, and shape while adjusting with the new service brackets to be installed.

Installation

Install service brackets ① to front combination lamp housing with screws.

⟨⇒ : Vehicle front



BODY ALIGNMENT

< SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

BODY ALIGNMENT VR30DDTT 2WD MODELS

VR30DDTT 2WD MODELS : Body Center Marks

INFOID:0000000012797726

Α

В

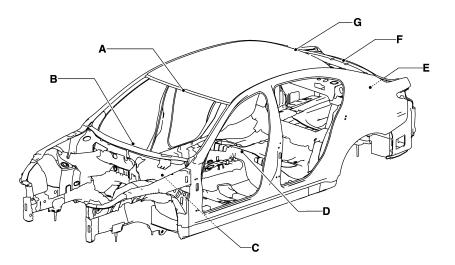
D

Е

F

Н

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.



A	В	C,D
	B	C
E	F	G
511	2	2
E	F	G

∀: Vehicle front

Unit: mm (in)

Points	Portion	Marks		
A	Front roof	Embossment		
В	Upper dash	Hole φ8 (0.31)		
С	Trans control reinforcement	Hole 14×12 (0.55×0.47)		

Revision: November 2016 BRM-101 2016 Q50

BRM

M

Ν

0

Р

BODY ALIGNMENT

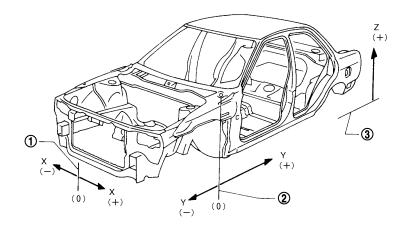
< SERVICE DATA AND SPECIFICATIONS (SDS)

Points	Portion Marks	
D	Rear seat crossmember reinforcement	Hole $\phi 5$ (0.20)
Е	Upper rear panel	Indent
F	Rear waist	Bead
G	Rear roof	Embossment

VR30DDTT 2WD MODELS : Description

INFOID:0000000012797727

- 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)]



JSKIA0073GB

Vehicle center

Front axle center

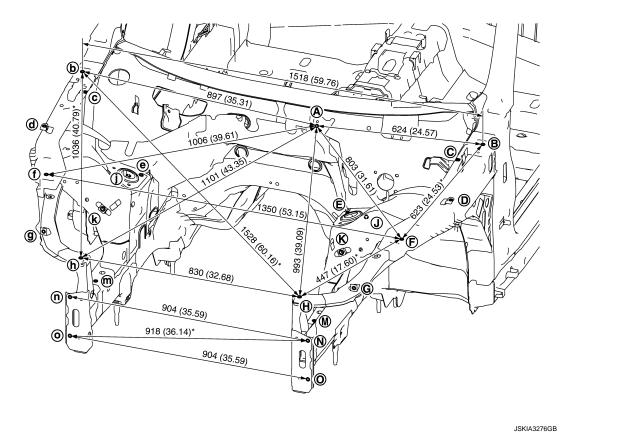
(3) Imaginary base line

VR30DDTT 2WD MODELS : Engine Compartment

INFOID:0000000012797728

MEASUREMENT

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



Unit: mm (in)

«The others»

Unit: mm (in)

								• · · · · · · · · · · · · · · · · · · ·
Point	Dimension	Memo	Point	Dimension	Memo	Point	Dimension	Memo
A-©	580 (22.83)		B-E	558 (21.97)*		E-@	786 (30.94)	1
A-©	850 (33.46)		B-@	1227 (48.31)*		E - h	985 (38.78)*	
A - D	722 (28.43)		B-f	1561 (61.46)*		E - m	934 (36.77)*	
A - d	971 (38.23)		B - J	488 (19.21)*		(F) - (h)	1149 (45.24)*	
A-E	469 (18.46)		©-©	1416 (55.75)		G-9	1179 (46.42)	
A - e	659 (25.94)		©-F	504 (19.84)*		G - H	197 (7.76)*	
A-G	975 (38.39)		©-f	1472 (57.95)*		G - N	254 (10.00)*	
A -9	1128 (44.41)		©-H	912 (35.91)*		(j) – (j)	903 (35.55)	
A - M	898 (35.35)		©-h	1417 (55.79)*		(k) − (k)	903 (35.55)	
<u>A</u> -m	1017 (40.04)		D - d	1544 (60.79)		M - m	833 (32.80)	

MEASUREMENT POINTS

BRM-103 Revision: November 2016 2016 Q50

C

Α

В

D

Е

F

G

Н

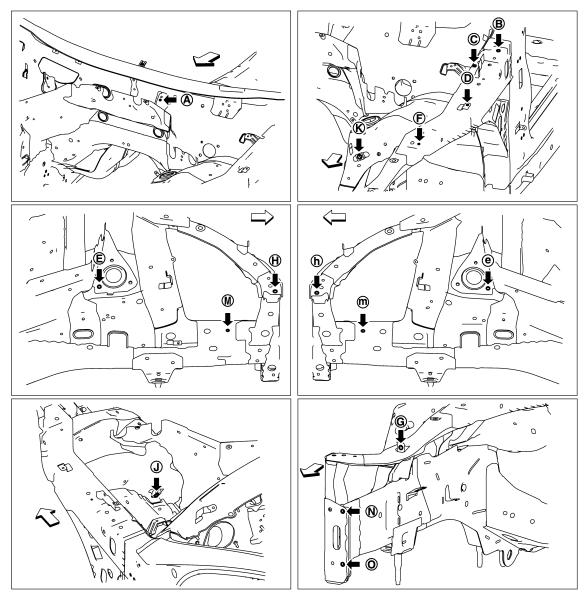
BRM

M

Ν

0

Р



JSKIA3277ZZ

⟨□: Vehicle front

Unit: mm (in)

Point	Material	Point	Material
A	Wiper mounting bracket hole center φ7 (0.28)	F f	Hoodledge reinforcement hole center $\phi 6$ (0.24)
B b	Hood hinge installing hole center \$\phi12\$ (0.47)	Θ	Side radiator core support hole center φ12 (0.47)
© ©	Upper hoodledge hole center φ8 (0.31)	(J) (j) (K) (k)	Nut holder hole center φ16 (0.63)
D d G 9	Front fender installing hole center (a) (a): φ7 (0.28) (b) (a): φ12 (0.47)	(M) (m)	Front side member hole center φ7 (0.28)
E e	Front strut installing hole center \$\phi11\$ (0.43)	N000	Front bumper stay installing hole center φ11 (0.43)

VR30DDTT 2WD MODELS : Underbody

INFOID:0000000012797729

MEASUREMENT

BODY ALIGNMENT

< SERVICE DATA AND SPECIFICATIONS (SDS)

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

0 (42.01) 1067 (42.01) 315 (12.40) 00 455 (17.91) 903 (35.55) 179 (7.05) ©′* 29 8 319 (12.56) (52.28)* **(E) 8** 864 (34.02) **⊕ © ©** 1357 (121 (4.76) 1349 (53.11) \otimes *,⊗ 1324 (52.13) 109 (4.29) \odot 796 (31.34)* 543 (21.38)* **©** 81 (3.19) ŒĬ 511 (20.12)* **©** 875 (34.45) 76 (2.99) **© © 6** 898 (35.35)* 199 (7.83) Œ <u>876 (34.49)</u> 79 (3.11) \oplus 688 (27.09)* 285 (11.22)* 78 (3.07) **(** (ii) (iii) **(E)** 1485 (58.46)* 1205 (47.44)* 784 (30.87) 1570 (61.81)* 64 (2.52) ﴾⊚∻ **⊚ ⊚** 678 (26.69) 90 **@ @ @** 134 (5.28) • © * \odot ¥© 787 (70.35)* **@** 829 (32.64) 303 (11.93) **@ @** 832 (32.76) 225 (8.86) **@** ① 仚

JSKIA3278GB

Unit: mm (in)

⟨
⇒: Vehicle front

: Vehicle left side

★: Bolt head

BRM-105 Revision: November 2016 2016 Q50

BRM

J

Α

В

C

D

Е

F

Н

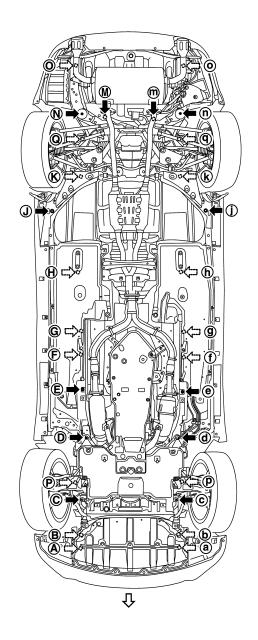
M

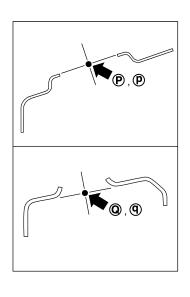
Ν

0

Р

MEASUREMENT POINTS





JSKIA3279ZZ

⟨□: Vehicle front

Unit: mm (in)

Points		Coordinates		Remarks Points			Coordinates	Remarks	
FUILS	Х	Υ	Z	Remarks	Tomo	Х	Υ	Z	Remarks
(A) (a)	±415.8 (±16.370)	-463.0 (-18.228)	224.6 (8.843)	Hole φ13 (0.51)	(J)(j)	±662.0 (±26.063)	2304.0 (90.708)	108.5 (4.272)	Hole φ8 (0.31)
B	416.2 (16.386)	-368.0 (-14.488)	303.2 (11.937)	Hole φ16 (0.63)	(K) (k)	±472.6 (±18.606)	2603.8 (102.512)	120.8 (4.756)	Bolt head
Ь	-413.2 (-16.268)	-368.0 (-14.488)	303.2 (11.937)	Hole φ16 (0.63)	M	238.0 (9.370)	3141.0 (123.661)	318.6 (12.543)	Hole φ16 (0.63)
© ©	±415.0 (±16.339)	-104.0 (-4.094)	133.9 (5.272)	Bolt head	(m)	-217.0 (-8.543)	3120.0 (122.834)	318.6 (12.543)	Hole 16×18 (0.63×0.71)
(D) (d)	±392.0 (±15.433)	414.0 (16.299)	64.3 (2.531)	Bolt head	N n	±451.5 (±17.776)	3163.9 (124.563)	179.0 (7.047)	Bolt head

BODY ALIGNMENT

< SERVICE DATA AND SPECIFICATIONS (SDS)

Points	Coordinates		- Remarks Points		Coordinates	Remarks			
Points	Х	X Y Z	Points	Х	Υ	Z	Remarks		
€⊕	±428.0 (±16.850)	815.0 (32.087)	78.4 (3.087)	Hole 16×20 (0.63×0.79)	00	±533.5 (±21.004)	3609.8 (142.118)	315.2 (12.409)	Hole 16×20 (0.63×0.79)
F f	±438.0 (±17.244)	1100.0 (43.307)	79.0 (3.110)	Hole \(\psi 16 \) (0.63)	P P	±421.6 (±16.598)	38.2 (1.504)	677.9 (26.689)	Hole φ50.1 (1.972)
G 9	±437.5 (±17.224)	1299.0 (51.142)	76.1 (2.996)	Hole \phi16 (0.63)	Q Q	±531.3 (±20.917)	2945.8 (115.976)	864.1 (34.020)	Hole \$71.8 (2.827)
\oplus	±437.5 (±17.224)	1810.0 (71.260)	81.2 (3.197)	Hole \phi16 (0.63)					

VR30DDTT 2WD MODELS : Passenger Compartment

INFOID:0000000012797730

Α

В

D

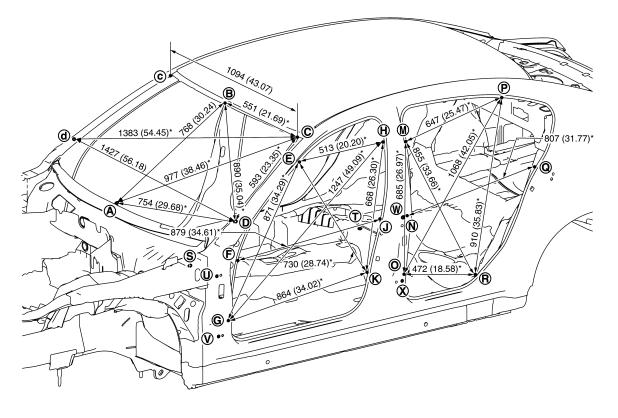
Е

F

Н

MEASUREMENT

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



JSKIA3280GB

Unit: mm (in)

«The others»

BRM

IVI

Ν

0

Р

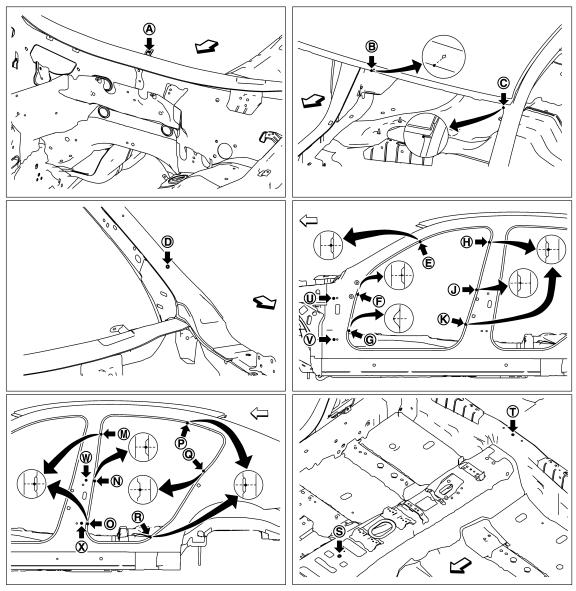
BODY ALIGNMENT

< SERVICE DATA AND SPECIFICATIONS (SDS)

Unit: mm (in)

Point	Dimension	Memo	Point	Dimension	Memo	Point	Dimension	Memo
E - 0	1232 (48.50)		M - r	1619 (63.74)*		① - M	953 (37.52)*	
E - 9	1604 (63.15)*		N - n	1450 (57.09)		① - N	829 (32.64)*	
E - h	1344 (52.91)*		N - Q	1637 (64.45)*		① - O	785 (30.91)*	
€ - k	1529 (60.20)*		O -O	1477 (58.15)		① - P	1072 (42.20)*	
(F) - (f)	1444 (56.85)		(O) - (P)	1682 (66.22)*		① - Q	1003 (39.49)*	
(F) - (j)	1693 (66.65)*		O - (r)	1555 (61.22)*		① - ®	772 (30.39)*	
G - 9	1474 (58.03)		P - P	1144 (45.04)		<u>()</u> - (u)	1584 (62.36)	
G - h	1844 (72.60)*		P-(r)	1590 (62.60)*		() - ()	1164 (45.83)*	
G - k	1705 (67.13)*		Q - Q	1401 (55.16)		() - (X)	1157 (45.55)*	
(H) - (h)	1253 (49.33)		® - r	1485 (58.46)		V - V	1611 (63.43)	
(H) - (k)	1511 (59.49)*		S-E	994 (39.13)*		W - W	1226 (48.27)*	
(J) - (j)	1450 (57.09)		S-F	791 (31.14)*		V - X	1129 (44.45)*	
K - k	1466 (57.72)		S - G	761 (29.96)*		W - W	1588 (62.52)	
M - m	1273 (50.12)		S - H	1268 (49.92)*		⊗-⊗	1623 (63.90)	
M - O	1533 (60.35)*		S - J	1099 (43.27)*				
M - P	1369 (53.90)*		S - K	999 (39.33)*				

MEASUREMENT POINTS



JSKIA3281ZZ

∹: Vehicle front

Unit: mm (in)

Point	Material	Point	Material
A	Upper dash hole center of center positioning mark φ8 (0.31)	(H) (h) (j) (k) (k) (M) (m) (0) (0)	Center pillar indent
B	Roof flange end of center positioning mark	P P Q Q B r	Rear fender indent
© ©	Outer side body joggle	(S)	Trans control reinforcement hole center of center positioning mark 14×12 (0.55×0.47)
D d	Outer side body hole center $\phi 4$ (0.16)	1	Rear seat crossmember reinforcement hole center of center positioning mark $\phi 5$ (0.20)
EeF f G 9	Front pillar indent	0000 0000	Door hinge installing hole center (□ (□ (□ (□ (□ (□ (□ (□ (□ (□ (□ (□ (□ (

BRM-109 2016 Q50 Revision: November 2016

Α

В

С

D

Е

F

G

Н

J

BRM

 \mathbb{N}

Ν

0

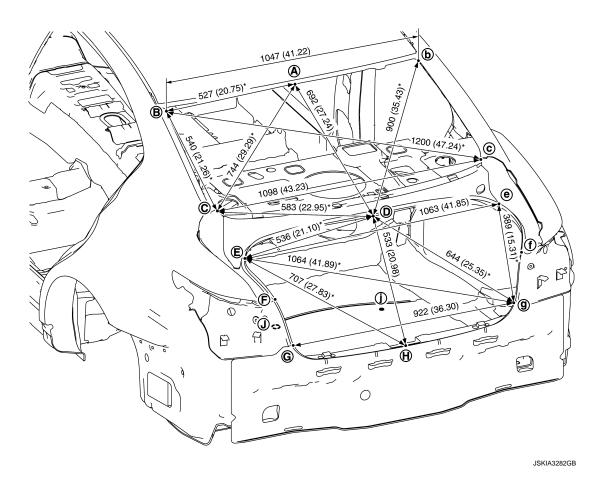
Ρ

VR30DDTT 2WD MODELS: Rear Body

INFOID:0000000012797731

MEASUREMENT

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



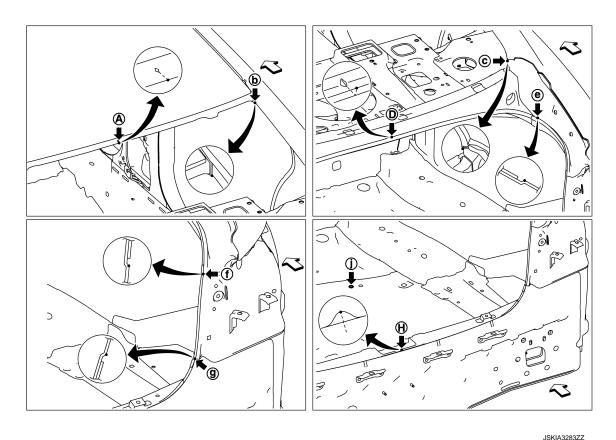
Unit: mm (in)

«The others»

Unit: mm (in)

Point	Dimension	Memo	Point	Dimension	Memo	Point	Dimension	Memo
A - E	916 (36.06)*		E -J	726 (28.58)*		G -H	469 (18.46)*	
A - G	1207 (47.52)*		E -j	995 (39.17)*		G -J	750 (29.53)*	
A – H	1190 (46.85)		(F) - (f)	1019 (40.12)		G -j	981 (38.62)*	
©-@	1108 (43.62)*		(F) − (H)	573 (22.56)*		$\mathbb{H} - \mathbb{J}$	754 (29.68)*	
(D) - (F)	592 (23.31)*		(F)-(J)	801 (31.54)*				
(D) - (J)	725 (28.54)*		(F) - (j)	1041 (40.98)*				

MEASUREMENT POINTS



∀ : Vehicle front

Unit: mm (in)

Point	Material	Point	Material
A	Roof flange end of center positioning mark	F f G 9	Rear combination lamp base joggle
B b	Outer side body joggle	\oplus	Upper rear panel indent of center positioning mark
©©E@	Rear fender corner joggle	(J) (j)	Rear floor rear hole center \$12 (0.47)
(D)	Rear waist flange end of center positioning mark		

2.0L TURBO GASOLINE ENGINE MODELS AND VR30DDTT AWD MODELS

2.0L TURBO GASOLINE ENGINE MODELS AND VR30DDTT AWD MODELS : Body Center Marks

INFOID:0000000012797732

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.

Ρ

Revision: November 2016 **BRM-111** 2016 Q50

В

Α

С

D

Е

F

G

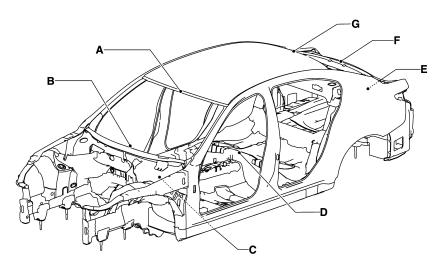
Н

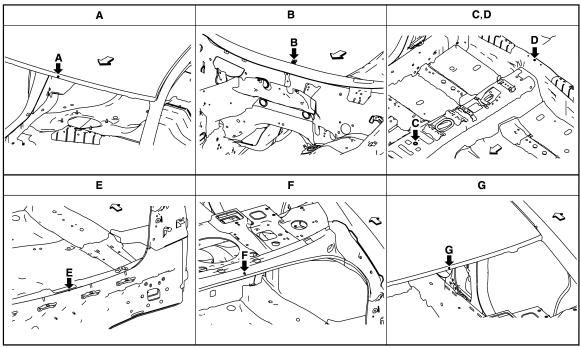
BRM

M

Ν

0





JSKIA3284ZZ

Unit: mm (in)

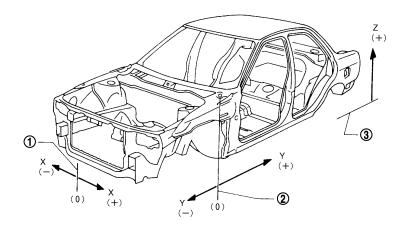
Points	Portion	Marks
A	Front roof	Embossment
В	Upper dash	Hole $\phi 8 \ (0.31)$
С	Trans control reinforcement	Hole 14×12 (0.55×0.47)
D	Rear seat crossmember reinforcement	Hole \$5 (0.20)
Е	Upper rear panel	Indent
F	Rear waist	Bead
G	Rear roof	Embossment

2.0L TURBO GASOLINE ENGINE MODELS AND VR30DDTT AWD MODELS : Description

• All dimensions indicated in the figures are actual.

< SERVICE DATA AND SPECIFICATIONS (SDS)

- 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)]



JSKIA0073GB

Vehicle center

② Front axle center

3) Imaginary base line

2.0L TURBO GASOLINE ENGINE MODELS AND VR30DDTT AWD MODELS: Engine Compartment

INFOID:0000000012797734

MEASUREMENT

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

BRM

J

Α

В

C

D

Е

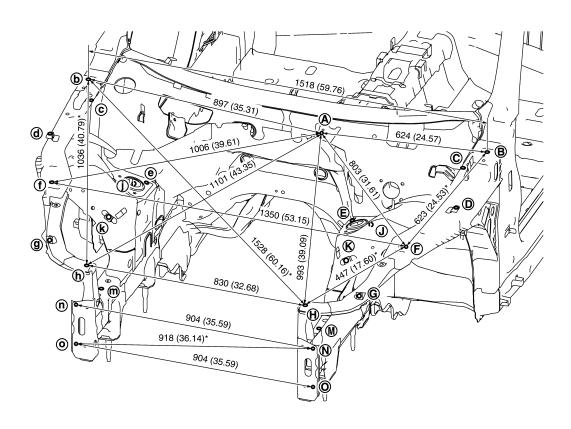
F

L

M

Ν

0



JSKIA3285GB

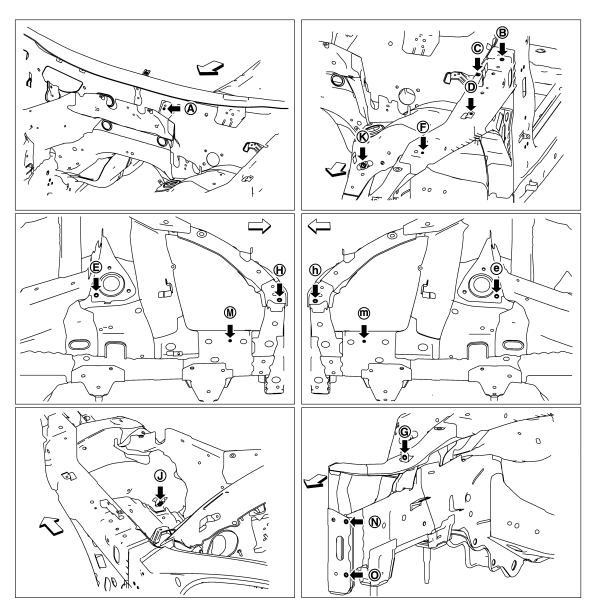
Unit: mm (in)

«The others»

Unit: mm (in)

								J
Point	Dimension	Memo	Point	Dimension	Memo	Point	Dimension	Memo
A - ©	580 (22.83)		B-E	558 (21.97)*		E-@	786 (30.94)	
A - C	850 (33.46)		B-@	1227 (48.31)*		E - h	985 (38.78)*	
A - D	722 (28.43)		B-f	1561 (61.46)*		E-@	934 (36.77)*	
A - d	971 (38.23)		B-J	497 (19.57)*		(F) – (h)	1149 (45.24)*	
A-E	469 (18.46)		©-©	1416 (55.75)		G-9	1179 (46.42)	
A-@	659 (25.94)		©-F	504 (19.84)*		G -H	197 (7.76)*	
A - G	975 (38.39)		©-(f)	1472 (57.95)*		(G) - (N)	254 (10.00)*	
A-9	1128 (44.41)		©-H	912 (35.91)*		(j) - (j)	906 (35.67)	
(A) – (M)	898 (35.35)		©-h	1417 (55.79)*		(k) − (k)	906 (35.67)	
<u>A</u> – <u>m</u>	1017 (40.04)		D - d	1544 (60.79)		M - m	833 (32.80)	

MEASUREMENT POINTS



JSKIA3286ZZ

∀
 □: Vehicle front

Unit: mm (in)

			Orna min (iii)
Point	Material	Point	Material
A	Wiper mounting bracket hole center φ7 (0.28)	(F) (f)	Hoodledge reinforcement hole center ¢6 (0.24)
B b	Hood hinge installing hole center \$\phi12\$ (0.47)	Θ	Side radiator core support hole center ϕ 12 (0.47)
© ©	Upper hoodledge hole center φ8 (0.31)	(J) (j) (K) (k)	Nut holder hole center φ16 (0.63)
D d G 9	Front fender installing hole center (a) (a): \$\phi 7\$ (0.28) (b) (g): \$\phi 12\$ (0.47)	(M) (m)	Front side member hole center φ7 (0.28)
E @	Front strut installing hole center \$11 (0.43)	N n 0 0	Front bumper stay installing hole center \$\phi11\$ (0.43)

2.0L TURBO GASOLINE ENGINE MODELS AND VR30DDTT AWD MODELS: Un-

Revision: November 2016 BRM-115 2016 Q50

А

В

С

D

Е

F

G

Н

1

BRM

M

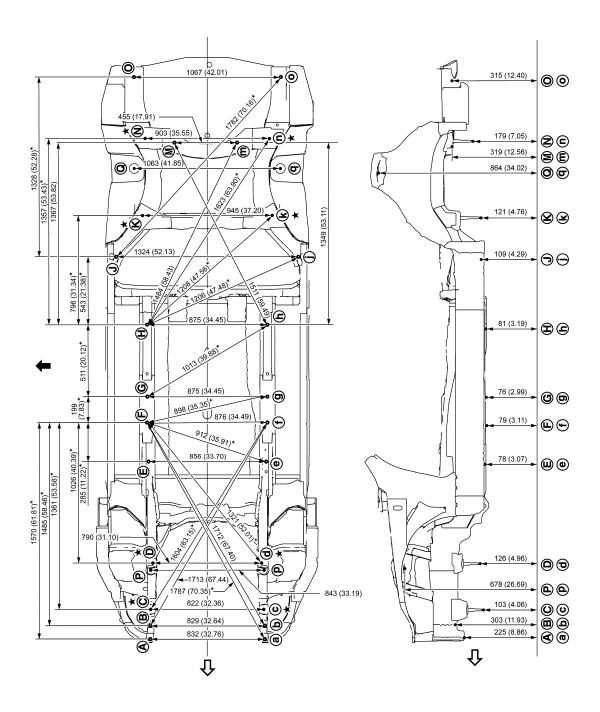
Ν

0

derbody INFOID:000000012797735

MEASUREMENT

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



JSKIA3287GB

< SERVICE DATA AND SPECIFICATIONS (SDS)

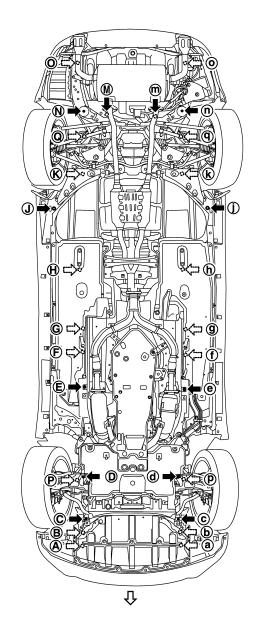
Unit: mm (in)

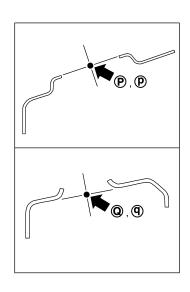
 $\$: Vehicle front

: Vehicle left side

★: Bolt head

MEASUREMENT POINTS





JSKIA3288ZZ

∀
 □: Vehicle front

Unit: mm (in)

Points	Coordinates			Remarks Points		Coordinates	Remarks			
Foilits	Х	Υ	Z	Remarks	Foirits	Х	Y	Z	Romano	
(A) (a)	±415.8 (±16.370)	-463.0 (-18.228)	224.6 (8.843)	Hole \phi13 (0.51)	J)j	±662.0 (±26.063)	2304.0 (90.708)	108.5 (4.272)	Hole φ8 (0.31)	
B	416.2 (16.386)	-368.0 (-14.488)	303.2 (11.937)	Hole \phi16 (0.63)	(K) (k)	±472.6 (±18.606)	2603.8 (102.512)	120.8 (4.756)	Bolt head	

BRM-117 Revision: November 2016 2016 Q50

Α

В

C

D

Е

F

G

Н

J

BRM

L

M

Ν

0

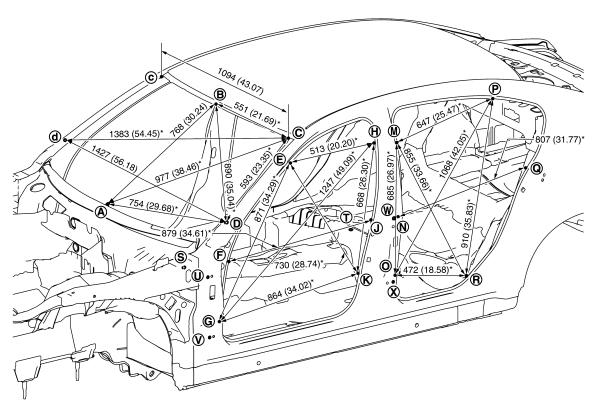
< SERVICE DATA AND SPECIFICATIONS (SDS)

Points		Coordinates	;	Remarks	Points		Coordinates	;	Remarks
Points	Х	Υ	Z	Remarks	Points	Х	Υ	Z	Remarks
Ь	-413.2 (-16.268)	-368.0 (-14.488)	303.2 (11.937)	Hole φ16 (0.63)	M	238.0 (9.370)	3141.0 (123.661)	318.6 (12.543)	Hole \$16 (0.63)
© ©	±411.0 (±16.181)	-261.0 (-10.276)	103.3 (4.067)	Bolt head	(m)	-217.0 (-8.543)	3120.0 (122.834)	318.6 (12.543)	Hole 16×18 (0.63×0.71)
(D) (d)	±395.0 (±15.551)	76.0 (2.992)	126.3 (4.972)	Bolt head	N n	±451.5 (±17.776)	3163.9 (124.563)	179.0 (7.047)	Bolt head
E e	±428.0 (±16.850)	815.0 (32.087)	78.4 (3.087)	Hole 16×20 (0.63×0.79)	00	±533.5 (±21.004)	3609.8 (142.118)	315.2 (12.409)	Hole 16×20 (0.63×0.79)
F f	±438.0 (±17.244)	1100.0 (43.307)	79.0 (3.110)	Hole φ16 (0.63)	PP	±421.6 (±16.598)	38.2 (1.504)	677.9 (26.689)	Hole φ50.1 (1.972)
G 9	±437.5 (±17.224)	1299.0 (51.142)	76.1 (2.996)	Hole φ16 (0.63)	@ @	±531.3 (±20.917)	2945.8 (115.976)	864.1 (34.020)	Hole \$71.8 (2.827)
$\Theta \Phi$	±437.5 (±17.224)	1810.0 (71.260)	81.2 (3.197)	Hole φ16 (0.63)					

2.0L TURBO GASOLINE ENGINE MODELS AND VR30DDTT AWD MODELS : Passenger Compartment

MEASUREMENT

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



JSKIA3289GB

Unit: mm (in)

«The others»

< SERVICE DATA AND SPECIFICATIONS (SDS)

								Unit: mm (in)
Point	Dimension	Memo	Point	Dimension	Memo	Point	Dimension	Memo
E - @	1232 (48.50)		(M) - (L)	1619 (63.74)*		① - M	953 (37.52)*	
E-9	1604 (63.15)*		N - n	1450 (57.09)		① - N	829 (32.64)*	
E -h	1344 (52.91)*		N - Q	1637 (64.45)*		① - O	785 (30.91)*	
€ - k	1529 (60.20)*		O - O	1477 (58.15)		① - P	1072 (42.20)*	
(F) - (f)	1444 (56.85)		(O) - (P)	1682 (66.22)*		① - Q	1003 (39.49)*	
(F) - (j)	1693 (66.65)*		O - (r)	1555 (61.22)*		① - ®	772 (30.39)*	
G - 9	1474 (58.03)		(P) - (D)	1144 (45.04)		<u>()</u> - (u)	1584 (62.36)	
G - h	1844 (72.60)*		P - (T)	1590 (62.60)*		() - ()	1164 (45.83)*	
G - k	1705 (67.13)*		Q - Q	1401 (55.16)		<u>()</u> - (X)	1157 (45.55)*	
(H) - (h)	1253 (49.33)		R - (r)	1485 (58.46)		V - V	1611 (63.43)	
(H) - (k)	1511 (59.49)*		S - E	994 (39.13)*		W - W	1226 (48.27)*	
(j - (j	1450 (57.09)		S - F	791 (31.14)*		V - X	1129 (44.45)*	
K - k	1466 (57.72)		S - G	761 (29.96)*		W - w	1588 (62.52)	
M - m	1273 (50.12)		S - H	1268 (49.92)*		⊗-⊗	1623 (63.90)	
M - O	1533 (60.35)*		S - J	1099 (43.27)*				
M - P	1369 (53.90)*		S - K	999 (39.33)*				

MEASUREMENT POINTS

BRM

Α

В

D

Е

F

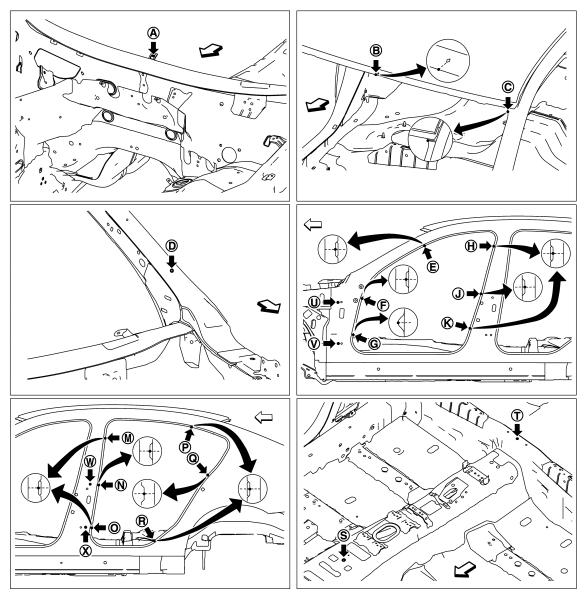
Н

L

 \mathbb{N}

Ν

0



JSKIA3290ZZ

∀
 □: Vehicle front

Unit: mm (in)

Point	Material	Point	Material		
A	Upper dash hole center of center positioning mark φ8 (0.31)	(H) (H) (J) (K) (K) (M) (M) (M) (M) (M) (M) (M) (M) (M) (M	Center pillar indent		
B	Roof flange end of center positioning mark	P P Q Q B r	Rear fender indent		
© ©	Outer side body joggle	S	Trans control reinforcement hole center of center positioning mark 14×12 (0.55×0.47)		
D d	Outer side body hole center $\phi 4$ (0.16)	①	Rear seat crossmember reinforcement hole center of center positioning mark φ5 (0.20)		
E @ F f G 9	Front pillar indent	0000 0000	Door hinge installing hole center (□ (□ (□ (□ (□ (□ (□ (□ (□ (□ (□ (□ (□ (

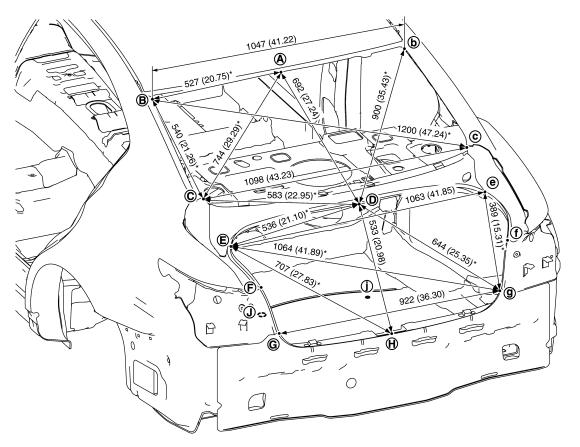
< SERVICE DATA AND SPECIFICATIONS (SDS)

2.0L TURBO GASOLINE ENGINE MODELS AND VR30DDTT AWD MODELS :

Rear Body

MEASUREMENT

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



JSKIA3282GB

Unit: mm (in)

«The others»

Unit: mm (in)

Point	Dimension	Memo	Point	Dimension	Memo	Point	Dimension	Memo
A-E	916 (36.06)*		E -J	726 (28.58)*		G - H	469 (18.46)*	
A - G	1207 (47.52)*		E -j	995 (39.17)*		G - J	750 (29.53)*	
A - H	1190 (46.85)		(F) - (f)	1019 (40.12)		G - j	981 (38.62)*	
©-@	1108 (43.62)*		(F) − (H)	573 (22.56)*		(H) - (J)	754 (29.68)*	
D - F	592 (23.31)*		(F)-(J)	801 (31.54)*				
(D) – (J)	725 (28.54)*		(F)-(j)	1041 (40.98)*				

MEASUREMENT POINTS

Revision: November 2016 BRM-121 2016 Q50

BRM

J

Α

В

C

D

Е

F

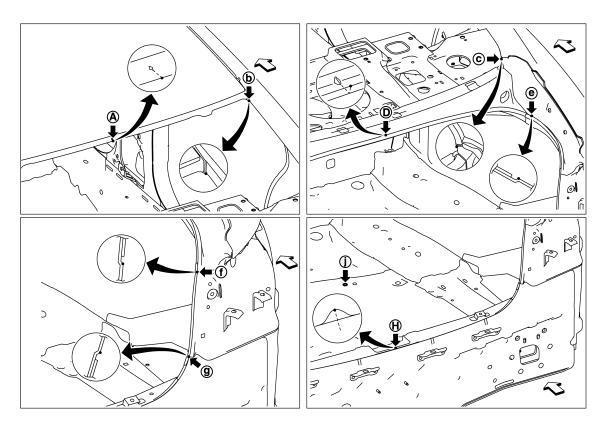
Н

L

M

Ν

0



JSKIA3283ZZ

∵: Vehicle front

Unit: mm (in)

Point	Material	Point	Material
A	Roof flange end of center positioning mark	F f G 9	Rear combination lamp base joggle
B b	Outer side body joggle	\oplus	Upper rear panel indent of center positioning mark
CCEB	Rear fender corner joggle	(J)(j)	Rear floor rear hole center ϕ 12 (0.47)
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:0000000012797738

Α

В

D

Е

Н

Abbre- viation	Material name	Heat resisting 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.	_	
AES	Acrylonitrile Ethylene Styrene	80 (176)	↑	_	
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 battery acid.	
PUR	Polyurethane	90 (194)	Avoid gasoline and solvents.	_	
UP	Unsaturated Polyester	90 (194)	↑	Flammable	
ASA	Acrylonitrile Styrene Acrylate	100 (212)	↑	Flammable	
PPE	Poly Phenylene Ether	110 (230)	↑	_	
TPU	Thermoplastic Urethane	110 (230)	↑	_	
PBT+ PC	Poly Butylene Terephthalate + Polycarbonate	120 (248)	↑	Flammable	
PC	Polycarbonate	120 (248)	↑	_	
POM	Poly Oxymethylene	120 (248)	↑	Avoid battery acid.	
PA	Polyamide	140 (284)	↑	Avoid immersing in water.	
PBT	Poly Butylene Terephthalate	140 (284)	↑	_	
PAR	Polyarylate	180 (356)	↑	_	
PET	Polyethylene terephthalate	180 (356)	↑	_	
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.

BRM

L

M

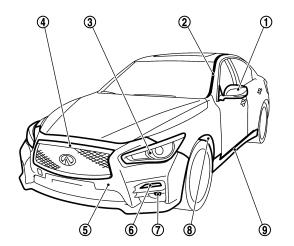
Ν

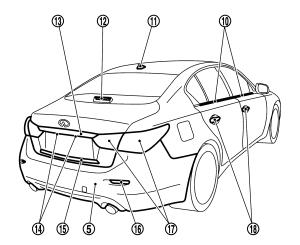
 \cap

Ρ

Location of Plastic Parts

INFOID:0000000012797739



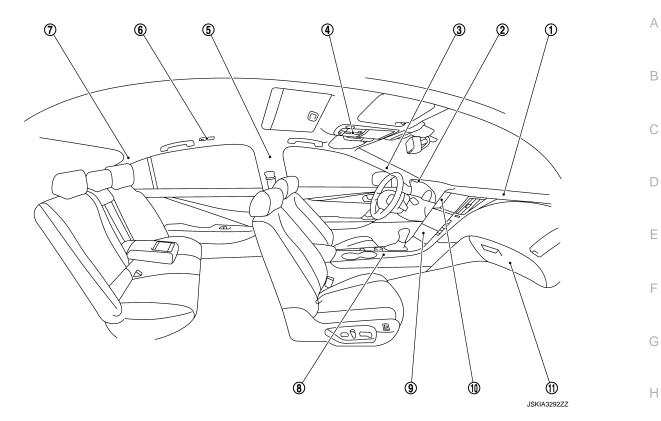


JSKIA3291ZZ

	Component			Material	Component			Material
	Cover Base		Cover	ABS	8	Front fender protector	PP	
			Base	PA	9	Sill cover		PP + EPM
	Door mirror	With cam- era	Housing	ABS	10	Door outside molding	PVC + Stainless	
1			finisher	ABS	(1)	Antenna base cover		ASA + PC
		Without camera	Housing	ASA	12	High mount stop lamp	Lens	PC
			finisher	ASA			Housing	PC + ABS
	Side turn signal lamp		Lens	PMMA	13	Trunk lid finisher	Outer	ABS
			Housing	ABS			Inner	ASA
<u> </u>	Side roof molding		PVC + Stainless		License plate lamp	Lens	PC	
2	Lower side molding		ASA	14)	License plate lamp	Housing	PC	
(3)	Front combination lamp Lens Housing		Lens	PC	15)	Trunk lid molding		ABS
(S)			Housing	PP	16	Defless reflectes	Lens	PMMA
4	Front grille			ABS		Reflex reflector	Housing	ABS
(5)	Bumper fasc	Bumper fascia		PP + EPM	(17)	Rear combination lamp	Lens	PMMA
	Front turn signal lamp Lens Housing		Lens	PC		Real combination lamp	Housing	ABS + ASA
6			Housing	PC	40	Door outside handle	Grip body	PC + PET
7	Front fog lamp		Lens	PC	18	Door outside flatfule	Grip finisher	ABS
			Housing	PBT + ASA + Glass fiber				

LOCATION OF PLASTIC PARTS

< SERVICE DATA AND SPECIFICATIONS (SDS)



	Component			Material	Component			Material	
1	Instrument panel		Skin	TPU			Body		PP
			Pad	PUR			Console box		ABS
			Core	PP + EPDM				Insert lid	PC + ABS
2	Cluster lid A		PP		Center con-	Console lid	Inner lid	PP	
3	Front pillar garnish		Base	PP	8	sole	Instrument side panel		PP + EPDM
			Skin	PET			Console finisher		PC + ABS
4	Map lamp	Switch finish	er	PP			Upper rear console	Aluminum	PC + ABS
		Console		PP				Wood	PC + Glass fiber
	Lid box assembly		PC + ABS	9	Console finisher		ABS		
(5)	Center pillar garnish		Base	PP	10	Instrument finisher C		Aluminum	PC + ABS
			Skin	PET				Wood	PC + Glass fiber
	6 Personal lamp		Lens	PC		Side ventilator grille		PC + ABS	
6)			Housing	PP	11)	Glove box		Skin	PVC
	Door pillor fir	Rear pillar finisher		PP				Pad	PUR
7	Real pillar III			PET				Core	ABS

BRM

J

PICIVI

M

L

Ν

0