SECTION BRM
BODY REPAIR

CONTENTS

FOR USA AND CANADA

VEHICLE INFORMATION 2

BODY EXTERIOR PAINT COLOR 2
Body Exterior Paint Color 2

PRECAUTION 3

REPAIRING HIGH STRENGTH STEEL 3
High Strength Steel (HSS) 3
Handling of Ultra High Strength Steel Plate Parts 5

PREPARATION 6

REPAIRING MATERIAL 6
Foam Repair 6

BODY COMPONENT PARTS 8
Underbody Component Parts 8
Body Component Parts 10
Frame Component Parts 12

REMOVAL AND INSTALLATION 14

CORROSION PROTECTION 14
Description 14
Anti-corrosive Wax 14
Undercoating 15
Stone Guard Coat 16
Body Sealing 17

BODY CONSTRUCTION 21
Body Construction 21

REPLACEMENT OPERATIONS 23
Description 23
Radiator Core Support 25
Hoodledge 25
Hoodledge (Partial Replacement) 26
Front Pillar 28
Center Pillar 31
Outer Sill 34
Rear Fender 38
Rear Fender Extension 41
Rear Panel and Rear End Crossmember 41
Rear Floor Rear 44
Roof 46
Crush Horn 47

SERVICE DATA AND SPECIFICATIONS (SDS) 49

BODY ALIGNMENT 49
Body Center Marks 49
Description 49
Engine Compartment 50
Underbody 53
Passenger Compartment 55
Rear Body 57

LOCATION OF PLASTIC PARTS 60
Precautions for Plastics 60
Location of Plastic Parts 61

FOR MEXICO

SERVICE DATA AND SPECIFICATIONS (SDS) 63

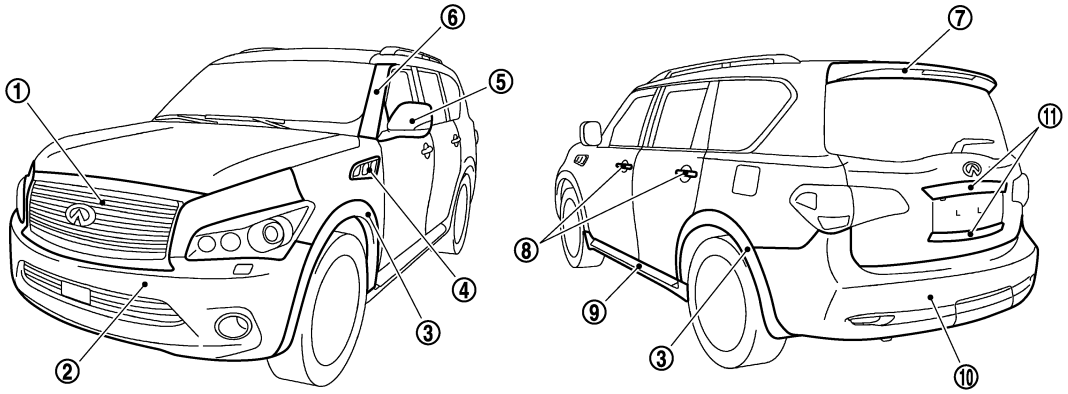
BODY ALIGNMENT 63
Description 63
Engine Compartment 63
Underbody 66
Passenger Compartment 68
Rear Body 70

VEHICLE INFORMATION

BODY EXTERIOR PAINT COLOR

Body Exterior Paint Color

INFOID:0000000011543630



JSKIA1965ZZ

Component			Color code	BQAB	BK23	BKH3	BKAD	BL50	BKAC	BBW5
			Description	White	Silver	Black	Gray	Brownish Purple	Brownish Gray	Dark Blue
			Paint type [note]	3P	2M	2S	2M	2P	2TM	2P
			Hard clear coat	×	×	×	×	×	×	×
①	Front grille		Chromium plate	Cr	Cr	Cr	Cr	Cr	Cr	Cr
②	Front bumper fascia		Body color	BQAB	BK23	BKH3	BKAD	BL50	BKAC	BBW5
③	Over fender		Body color	BQAB	BK23	BKH3	BKAD	BL50	BKAC	BBW5
④	Front fender duct		Chromium plate	Cr	Cr	Cr	Cr	Cr	Cr	Cr
⑤	Door outside mirror	Cover	Body color	BQAB	BK23	BKH3	BKAD	BL50	BKAC	BBW5
⑥	Front pillar finisher		Black	G01	G01	G01	G01	G01	G01	G01
⑦	Back door air spoiler		Body color	BQAB	BK23	BKH3	BKAD	BL50	BKAC	BBW5
⑧	Door outside handle		Chromium plate	Cr	Cr	Cr	Cr	Cr	Cr	Cr
⑨	Side step		Body color	BQAB	BK23	BKH3	BKAD	BL50	BKAC	BBW5
⑩	Rear bumper fascia		Body color	BQAB	BK23	BKH3	BKAD	BL50	BKAC	BBW5
⑪	Back door finisher		Chromium plate	Cr	Cr	Cr	Cr	Cr	Cr	Cr

NOTE:

- 2M: 2-Coat metallic
- 2P: 2-Coat pearl
- 2S: 2-Coat solid
- 3P: 3-Coat pearl
- 2TM: 2-Coat micro titanium metallic

PRECAUTION

REPAIRING HIGH STRENGTH STEEL

High Strength Steel (HSS)

INFOID:0000000010258667

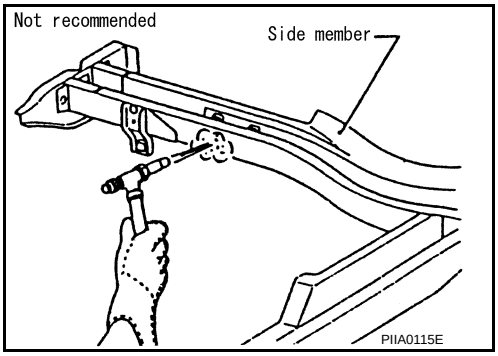
High strength steel is used for body panels in order to reduce vehicle weight.
Accordingly, precautions in repairing automotive bodies made of high strength steel are described below:

Tensile strength	Major applicable parts
440 - 780 MPa	• Rear floor reinforcement • 2nd seat mounting member assembly • Front seat mounting rear crossmember assembly • Front floor reinforcement • 2nd crossmember (Lower) • Side radiator core support • Radiator core support main assembly • Front side member assembly • 4th crossmember • 2nd seat mounting crossmember • Rear side member • Rear crossmember • Inner side roof rail • Upper inner front pillar • Inner center pillar • Upper front pillar reinforcement • Lower center pillar brace • Front pillar brace • Outer sill reinforcement • Front roof rail • Rear roof rail • Radiator guard crossmember assembly • 2nd crossmember assembly • 2nd crossmember reinforcement • Front side member assembly • Front bound bumper bracket assembly • Lower front link mounting bracket assembly • Center side member assembly • Fuel tank protector assembly • Rear suspension mounting bracket assembly • Rear shock absorber bracket assembly • Rear side member assembly • Rear end gusset • Rear end crossmember assembly
980 - 1350 MPa	• Lower dash center reinforcement (Lower dash Component part) • Inner sill • Rear seat crossmember (2nd seat mounting crossmember component part) • Inner center pillar (Upper) • Upper outer center pillar reinforcement (Lower center pillar brace component part) • Front bumper crossmember assembly

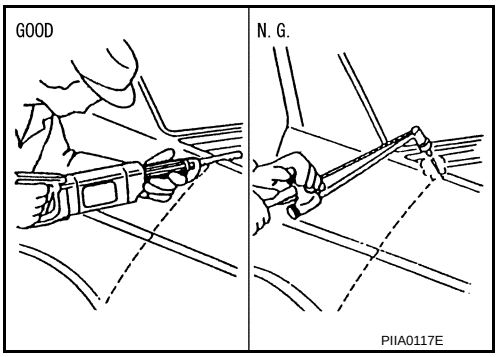
Read the following precautions when repairing HSS:

1. Additional points to consider

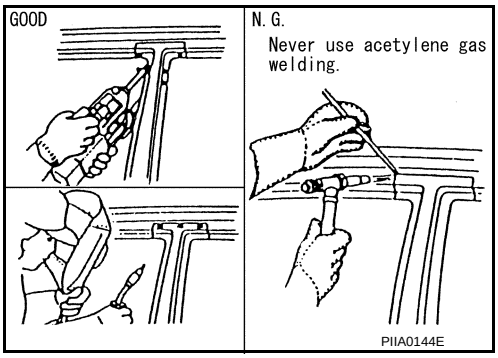
- The repair of reinforcements (such as side members) by heating is not recommended, because it may weaken the component. When heating is unavoidable, never heat HSS parts above 550°C (1,022°F).
  Verify heating temperature with a thermometer.
  (Crayon-type and other similar type thermometer are appropriate.)



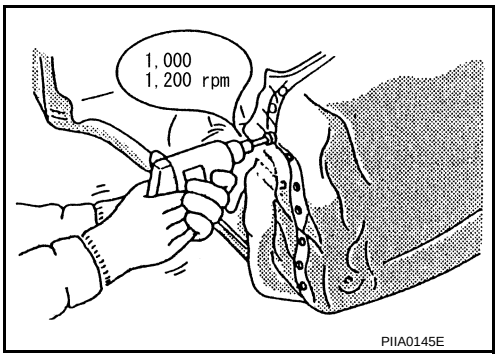
- When straightening body panels, use caution in pulling any HSS panel. Because HSS is very strong, pulling may cause deformation in adjacent sections of the body. In this case, increase the number of measuring points, and carefully pull the HSS panel.
- When cutting HSS panels, avoid gas (torch) cutting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



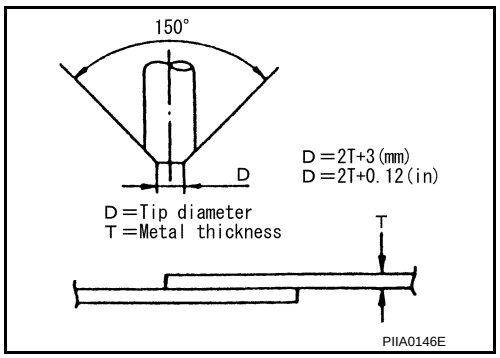
- When welding HSS panels, use spot welding whenever possible in order to minimize weakening surrounding areas due to heat.
  If spot welding is impossible, use MIG. welding. Do not use gas (torch) for welding because it is inferior in welding strength.



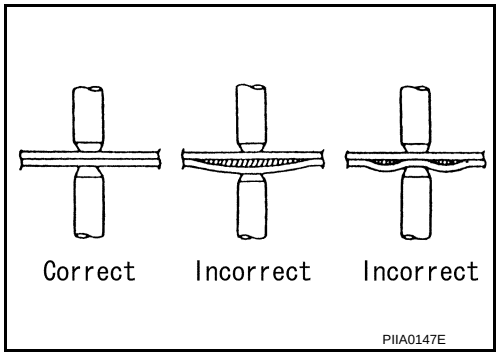
- Spot welding on HSS panels is harder than that of an ordinary steel panel.
  Therefore, when cutting spot welds on a HSS panel, use a low speed high torque drill (1,000 to 1,200 rpm) to increase drill bit durability and facilitate the operation.



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



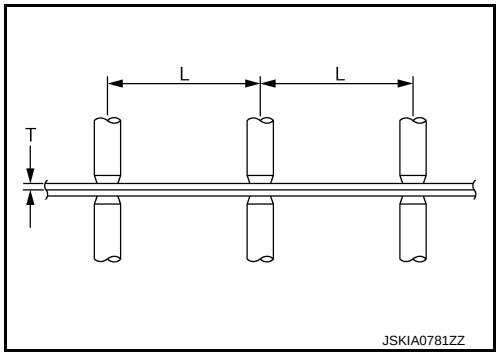
- The panel surfaces must fit flush to each other, leaving no gaps.



- Follow the specifications for the proper welding pitch.

Unit: mm (in)

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



Handling of Ultra High Strength Steel Plate Parts

INFOID:0000000010258668

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

INFOID:0000000010258669

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

URETHANE FOAM APPLICATIONS

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

<Urethane foam for foaming agent> **3M™ Automix™ Flexible Foam 08463 or equivalent**

Read instructions on product for fill procedures.

Example of foaming agent filling operation procedure

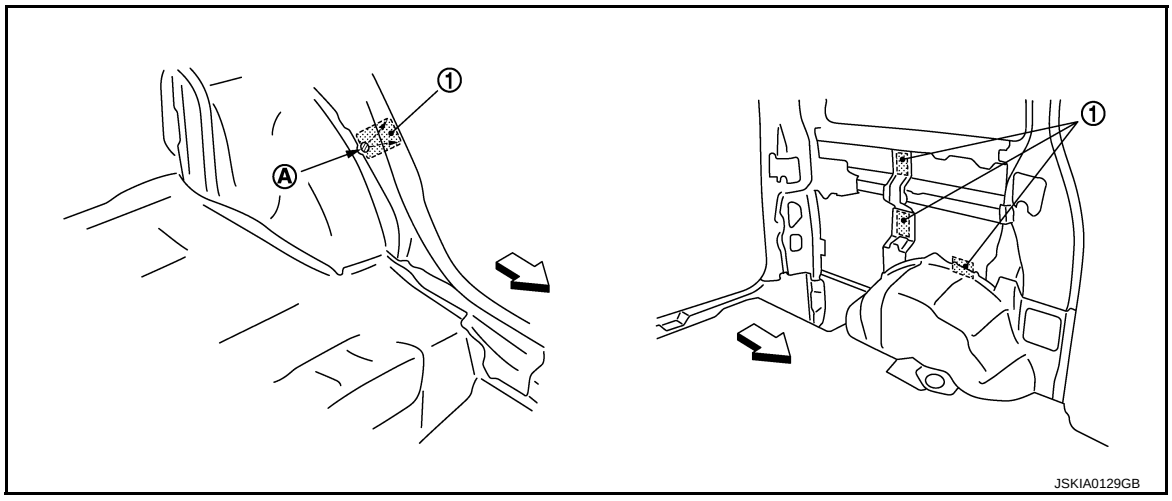
1. Fill procedures after installation of service part.

a. Eliminate foam material remaining on vehicle side.

b. Clean area after eliminating form insulator and foam material.

c. Install service part.

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



1. Urethane foam

A. Nozzle insert hole

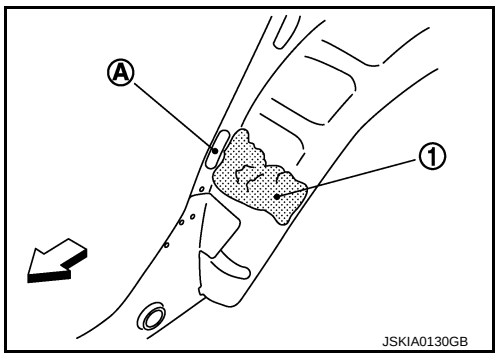
⇦: Vehicle front

2. Fill procedures before installation of service part.

a. Eliminate foam material remaining on vehicle side.

b. Clean area after eliminating foam insulator and foam material.

c. Fill foam material on wheelhouse outer side.



1. Urethane foam
A. Fill while avoiding flange area
⇦: Vehicle front

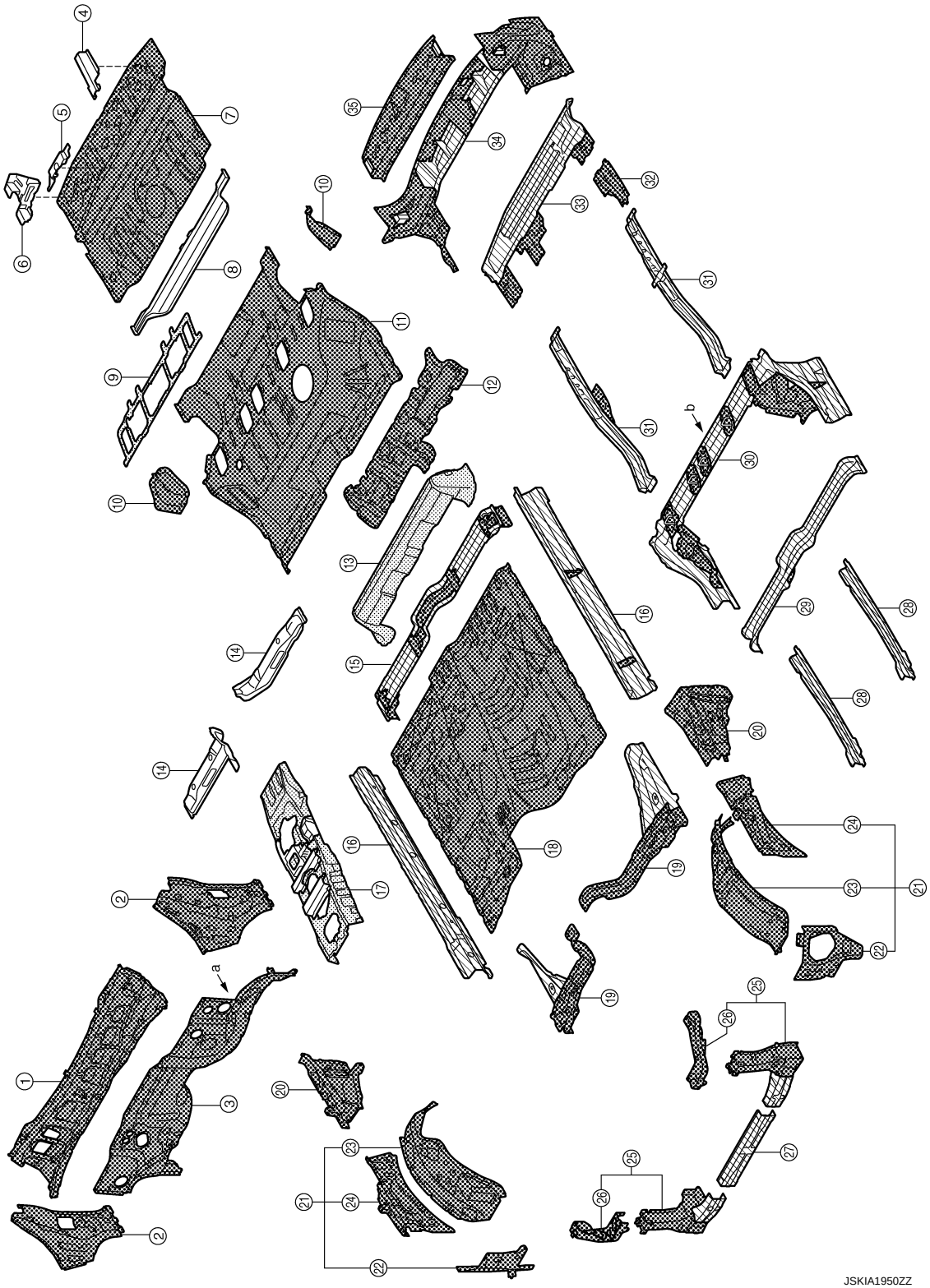
NOTE:
Fill enough to close gap with service part while avoiding flange area.

d. Install service part.
NOTE:
Refer to label for information on working times.

BODY COMPONENT PARTS

Underbody Component Parts

INFOID:0000000010258670



: Both sided anti-corrosive precoated steel sections
: High strength steel (HSS) sections
: Both sided anti-corrosive steel and HSS sections

No.	Parts name			Tensile strength (MPa)	Both sided anti-corrosive precoated steel sections
1.	Air box assembly			Under 440	×
2.	Side dash (RH & LH)			Under 440	×
3.	Lower dash	a.	T=2.0 mm (0.079 in)	980[caution]	×
4.	Trim mounting bracket assembly			Under 440	—
5.	Rear floor board reinforcement assembly			Under 440	—
6.	Jack mounting bracket			Under 440	—
7.	Rear floor rear			Under 440	×
8.	3rd seat front mounting bracket assembly			Under 440	—
9.	Rear floor reinforcement			440	—
10.	Inner rear wheelhouse reinforcement (RH & LH)			Under 440	×
11.	Rear floor front			Under 440	×
12.	2nd seat crossmember front reinforcement			Under 440	×
13.	2nd seat mounting member assembly			440	—
14.	2nd crossmember (RH & LH Upper)			Under 440	—
15.	Front seat mounting rear crossmember assembly			440	×
16.	Inner sill (RH & LH)		T=1.4 mm (0.055 in)	980[caution]	×
17.	Front floor reinforcement			440	—
18.	Front floor			Under 440	×
19.	2nd crossmember (RH & LH Lower)			440	×
20.	Hoodledge reinforcement (RH & LH)			Under 440	×
21.	Hoodledge assembly (RH & LH)			Refer to No.22–24	
22.	Upper hoodledge (RH & LH)			Under 440	×
23.	Lower hoodledge (RH & LH)			Under 440	×
24.	Upper rear hoodledge (RH & LH)			Under 440	×
25.	Side radiator core support (RH & LH)			440	×
26.	Upper radiator core support (RH & LH)			Under 440	×
27.	Radiator core support main assembly			440	×
28.	Front side member assembly (RH & LH)			590	×
29.	4th crossmember			590	×
30.	2nd seat mounting crossmember	b.	T=2.0 mm (0.079 in)	980[caution]	×
31.	Rear side member (RH & LH)			590	×
32.	3rd seat mounting bracket assembly			Under 440	×
33.	3rd rear crossmember assembly			590	×
34.	Rear crossmember			590	×
35.	Upper rear end crossmember assembly			Under 440	×

NOTE:

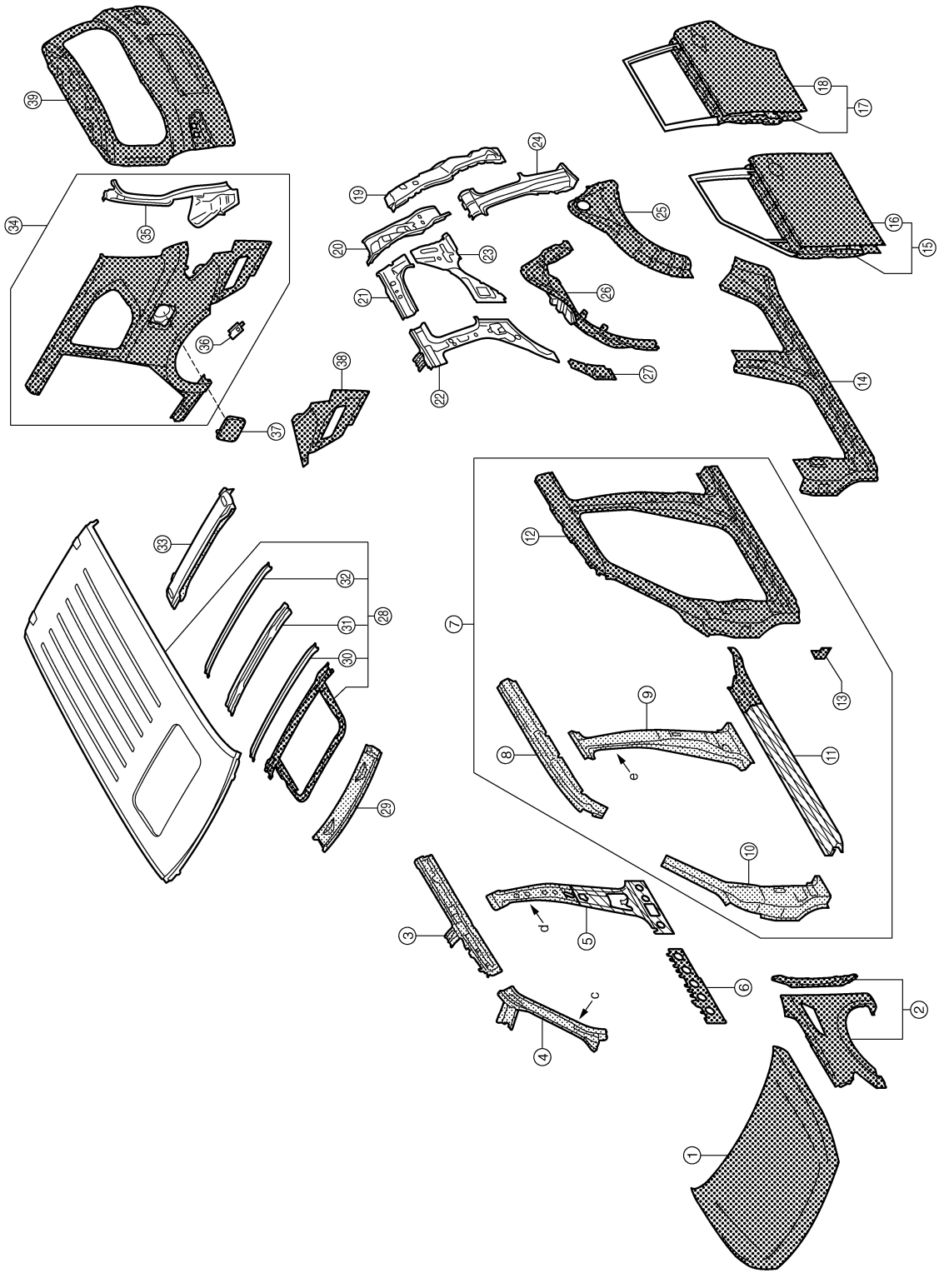
- For the parts without a number described in the figure, it is supplied only with the assembly part that the part is included with.
- Tensile strength column shows the largest strength value of a part in the component part.

CAUTION:

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

Body Component Parts

INFOID:0000000010258671



: Both sided anti-corrosive precoated steel sections
: High strength steel (HSS) sections
: Both sided anti-corrosive steel and HSS sections

No.		Parts name			Tensile strength (MPa)	Both sided anti-corrosive precoated steel sections
1.		Hood			Under 440	×
2.		Front fender (RH & LH)			Under 440	×
3.		Inner side roof rail (RH & LH)			590	—
4.		Upper inner front pillar (RH & LH)	c.	T=1.6 mm (0.063 in)	980[caution]	—
5.		Inner center pillar (RH & LH)	d.	T=1.6 mm (0.063 in)	980[caution]	×
6.		Center sill reinforcement assembly (RH & LH)			Under 440	×
7.		Side body assembly (RH & LH)			Refer to No.8–13	
	8.	Upper front pillar reinforcement (RH & LH)			590	—
	9.	Lower center pillar brace (RH & LH)	e.	T=1.8 mm (0.071 in)	980[caution]	—
	10.	Front pillar brace (RH & LH)			590	—
	11.	Outer sill reinforcement (RH & LH)			590	×
	12.	Outer front side body (RH & LH)			Under 440	×
	13.	Front fender bracket assembly (RH & LH)			Under 440	×
14.		Outer sill (RH & LH)			Under 440	×
15.		Front door assembly (RH & LH)			440	×
16.		Outer front door panel (RH & LH)			Under 440	×
17.		Rear door assembly (RH & LH)			440	×
18.		Outer rear door panel (RH & LH)			Under 440	×
19.		Back pillar reinforcement (RH & LH)			Under 440	—
20.		Inner back pillar (RH & LH)			Under 440	—
21.		Inner rear side roof rail (RH & LH)			Under 440	—
22.		Inner rear pillar (RH & LH)			590	—
23.		Lower inner rear pillar (RH & LH)v			Under 440	—
24.		Side panel reinforcement (RH & LH)			Under 440	—
25.		Outer rear wheelhouse (RH & LH)			Under 440	×
26.		Inner rear wheelhouse (RH & LH)			Under 440	×
27.		Outer rear wheelhouse extension (RH & LH)			Under 440	×
28.		Roof assembly			Under 440	—
29.		Front roof rail			440	—
30.		Roof bow No.3			Under 440	—
31.		Roof bow No.4			Under 440	—
32.		Roof bow No.5			Under 440	—
33.		Rear roof rail			440	—
34.		Rear fender (RH & LH)			Under 440	×
35.		Back pillar assembly (RH & LH)			Under 440	—
36.		Rear fender bracket (RH & LH)			Under 440	—
37.		Fuel filler lid			Under 440	×
38.		Rear fender extension (RH & LH)			Under 440	×
39.		Back door			Under 440	×

NOTE:

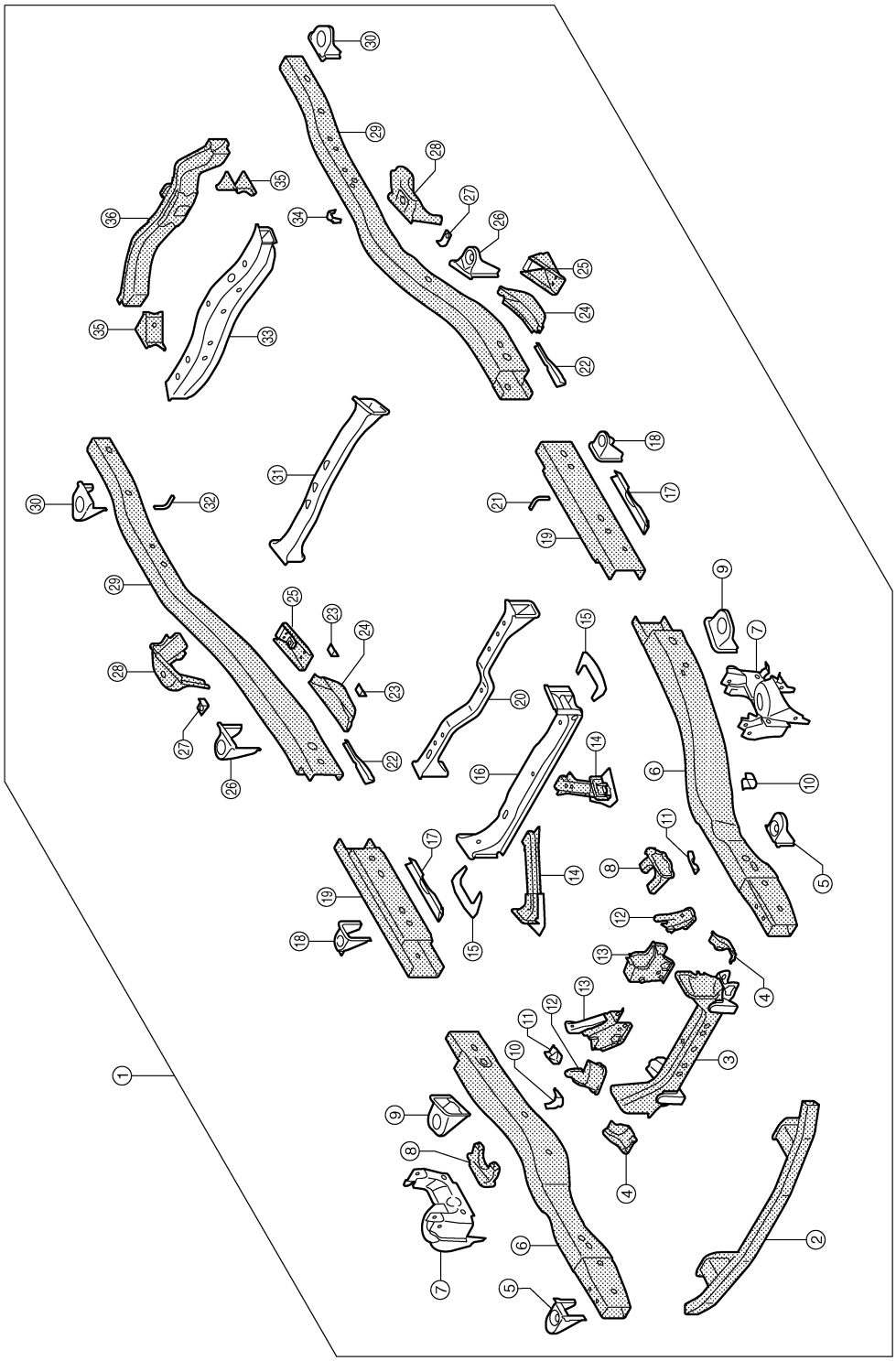
- For the parts without a number described in the figure, it is supplied only with the assembly part that the part is included with.
- Tensile strength column shows the largest strength value of a part in the component part.

CAUTION:

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

Frame Component Parts

INFOID:0000000010258672



JSKIA1952ZZ

: High strength steel (HSS) sections

No.	Parts name		Tensile strength (MPa)	Both sided anti-corrosive precoated steel sections
1.	Frame assembly		Refer to No.2–36	
2.	Front bumper crossmember assembly	T=1.8 mm (0.071 in)	980[caution]	—
3.	2nd crossmember assembly		440	—
4.	2nd crossmember reinforcement (RH & LH)		440	—
5.	1st cab mounting bracket (RH & LH)		Under 440	—
6.	Front side member assembly (RH & LH)		540	—
7.	Front suspension bracket assembly (RH & LH)		Under 440	—
8.	Engine mounting bracket assembly (RH & LH)		Under 440	—
9.	2nd cab mounting bracket assembly (RH & LH)		Under 440	—
10.	3way connector bracket assembly (RH & LH)		Under 440	—
11.	Piping bracket assembly (RH & LH)		Under 440	—
12.	Front bound bumper bracket assembly (RH & LH)		540	—
13.	Lower front link mounting bracket assembly (RH & LH)		440	—
14.	Diagonal member complete (RH & LH)		540	—
15.	Rear engine mounting gusset assembly		Under 440	—
16.	Rear engine mounting member complete		Under 440	—
17.	Front fuel tank protector (RH & LH)		Under 440	—
18.	3rd cab mounting bracket assembly (RH & LH)		Under 440	—
19.	Center side member assembly (RH & LH)		540	—
20.	6th crossmember assembly		Under 440	—
21.	Exhaust bracket (Front)		Under 440	—
22.	Fuel tank protector (RH & LH Rear)		Under 440	—
23.	Heat insulator bracket		Under 440	—
24.	Fuel tank protector assembly (RH & LH)		540	—
25.	Rear suspension mounting bracket assembly (RH & LH)		540	—
26.	4th cab body mounting bracket assembly (RH & LH)		Under 440	—
27.	Rear brake hose bracket (RH & LH)		Under 440	—
28.	Rear shock absorber bracket assembly (RH & LH)		540	—
29.	Rear side member assembly (RH & LH)		540	—
30.	5th cab body bracket (RH & LH)		Under 440	—
31.	7th crossmember assembly		Under 440	—
32.	Exhaust bracket (Rear)		Under 440	—
33.	Spare wheel crossmember assembly		Under 440	—
34.	Front under cover bracket assembly		Under 440	—
35.	Rear end gusset (RH & LH)		440	—
36.	Rear end crossmember assembly		540	—

NOTE:

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

CAUTION:

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

REMOVAL AND INSTALLATION

CORROSION PROTECTION

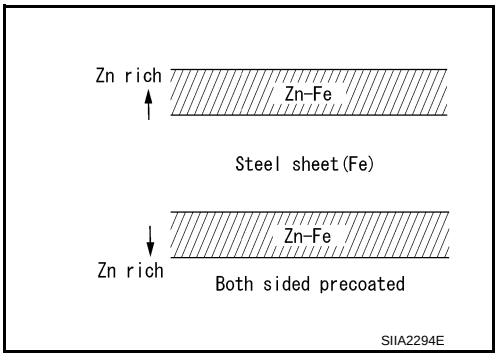
Description

INFOID:0000000010258673

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 anti-corrosive 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.



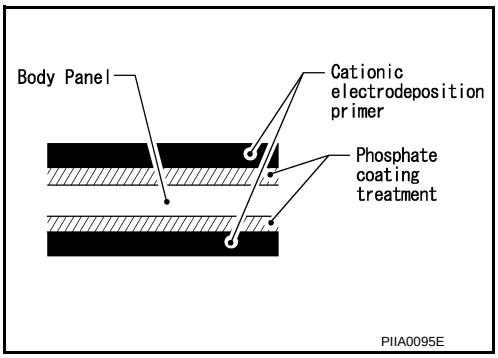
NISSAN genuine parts are fabricated from galvannealed steel. Therefore, it is recommended that NISSAN genuine parts or an equivalent be used for panel replacement to maintain the anti-corrosive performance built into the vehicle at the factory.

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.



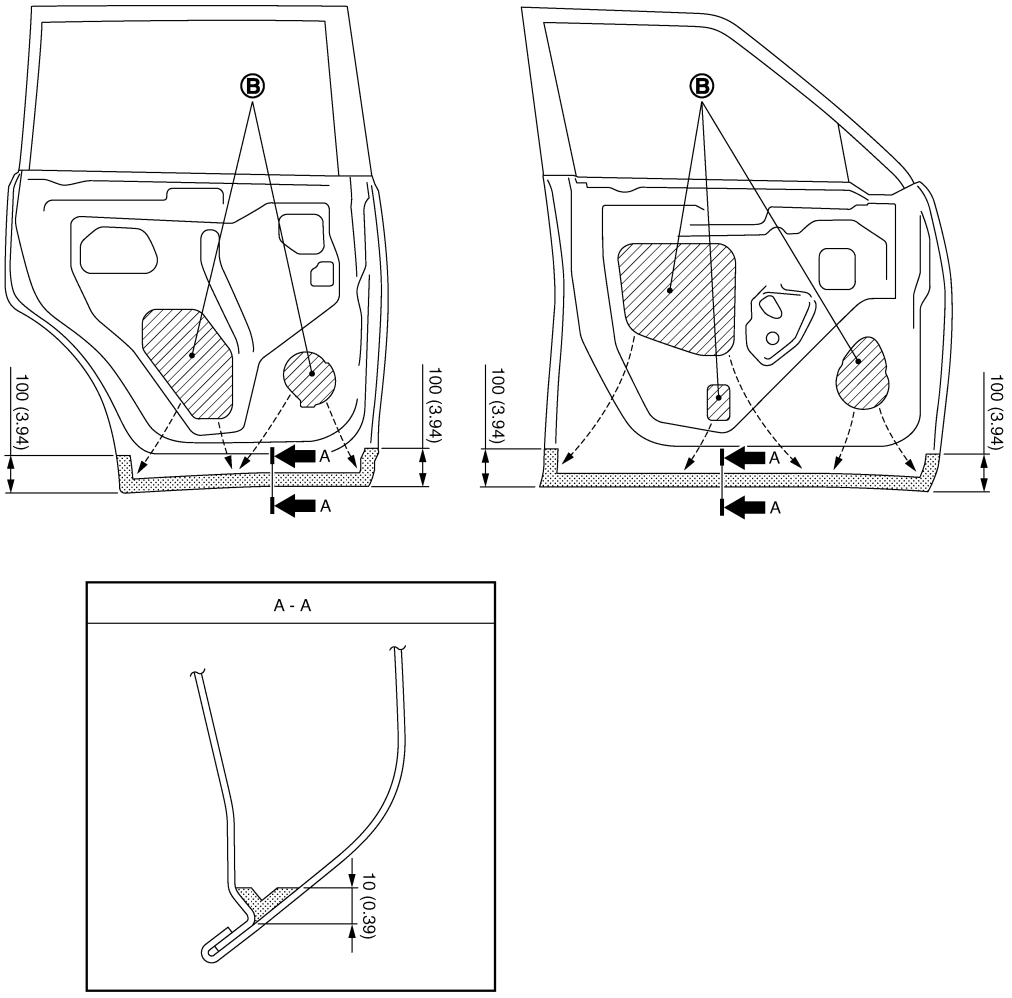
NISSAN genuine parts are also treated in the same manner. Therefore, it is recommended that NISSAN genuine parts or an equivalent be used for panel replacement to maintain anti-corrosive performance built into the vehicle at the factory.

Anti-corrosive Wax

INFOID:0000000010258674

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



JSKIA1888GB

B. Nozzle insert hole

Unit: mm (in)

: Anti-corrosive wax coated portions

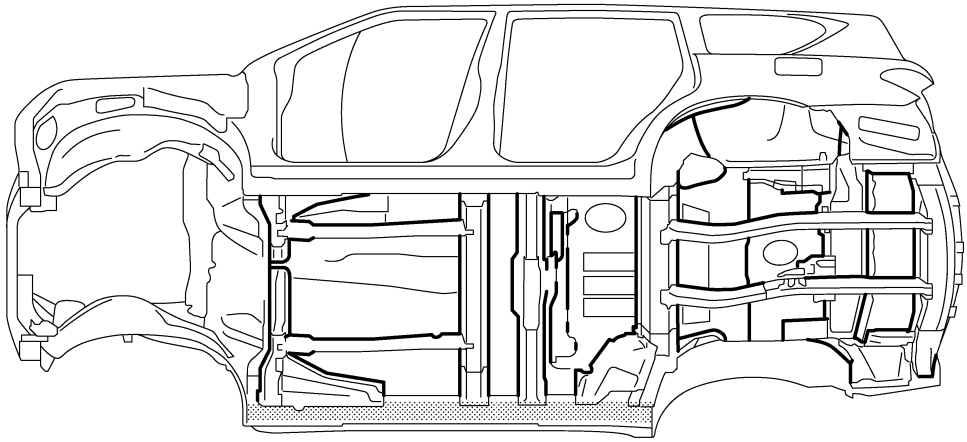
Undercoating

INFOID:0000000010258675

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

Precautions in Undercoating

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



JSKIA2037ZZ

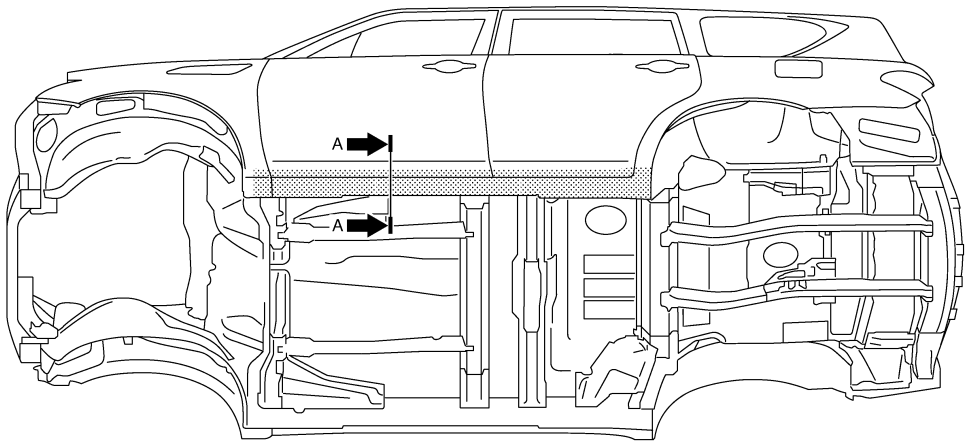
: Undercoated areas

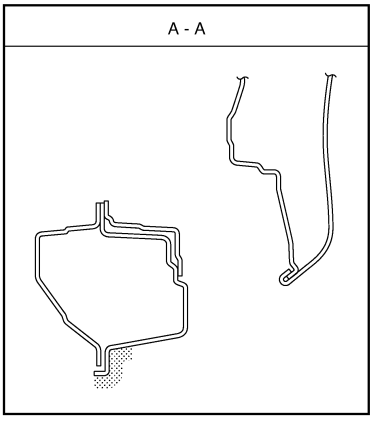
: Sealed portions

Stone Guard Coat

INFOID:0000000010258676

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





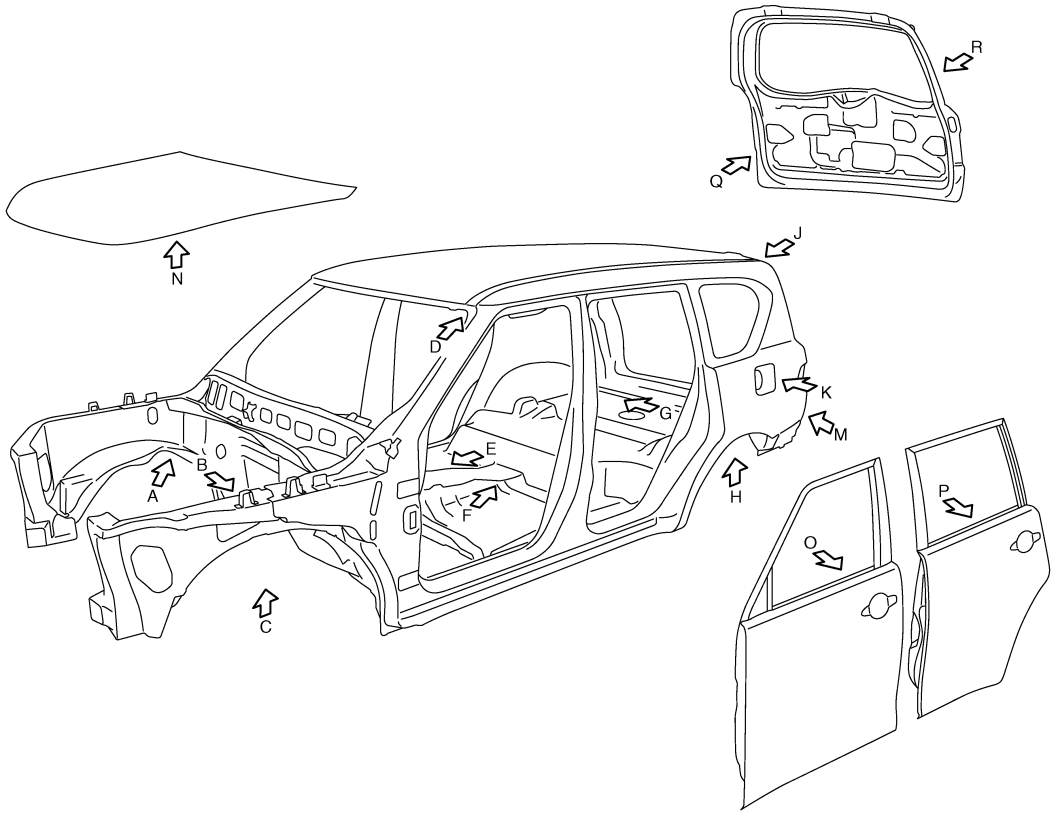
JSKIA1942ZZ

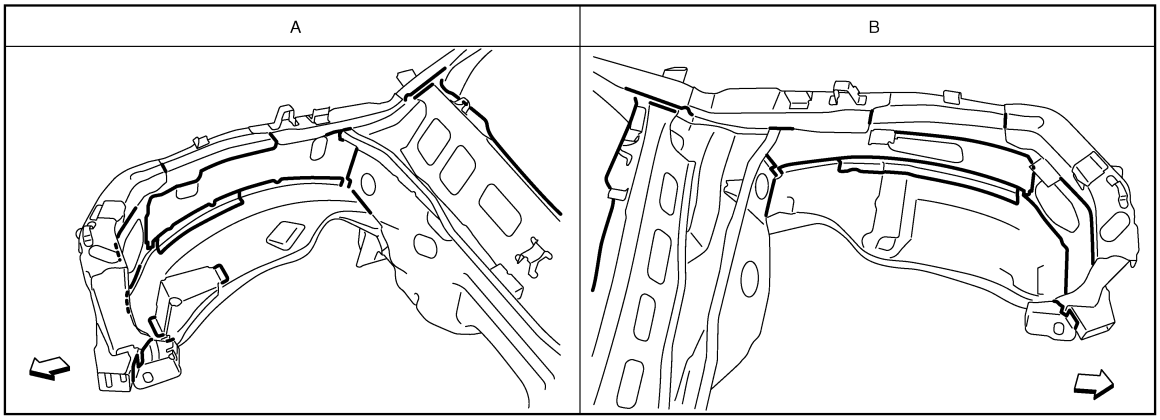
: Stone guard coated portions

Body Sealing

INFOID:0000000010258677

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.

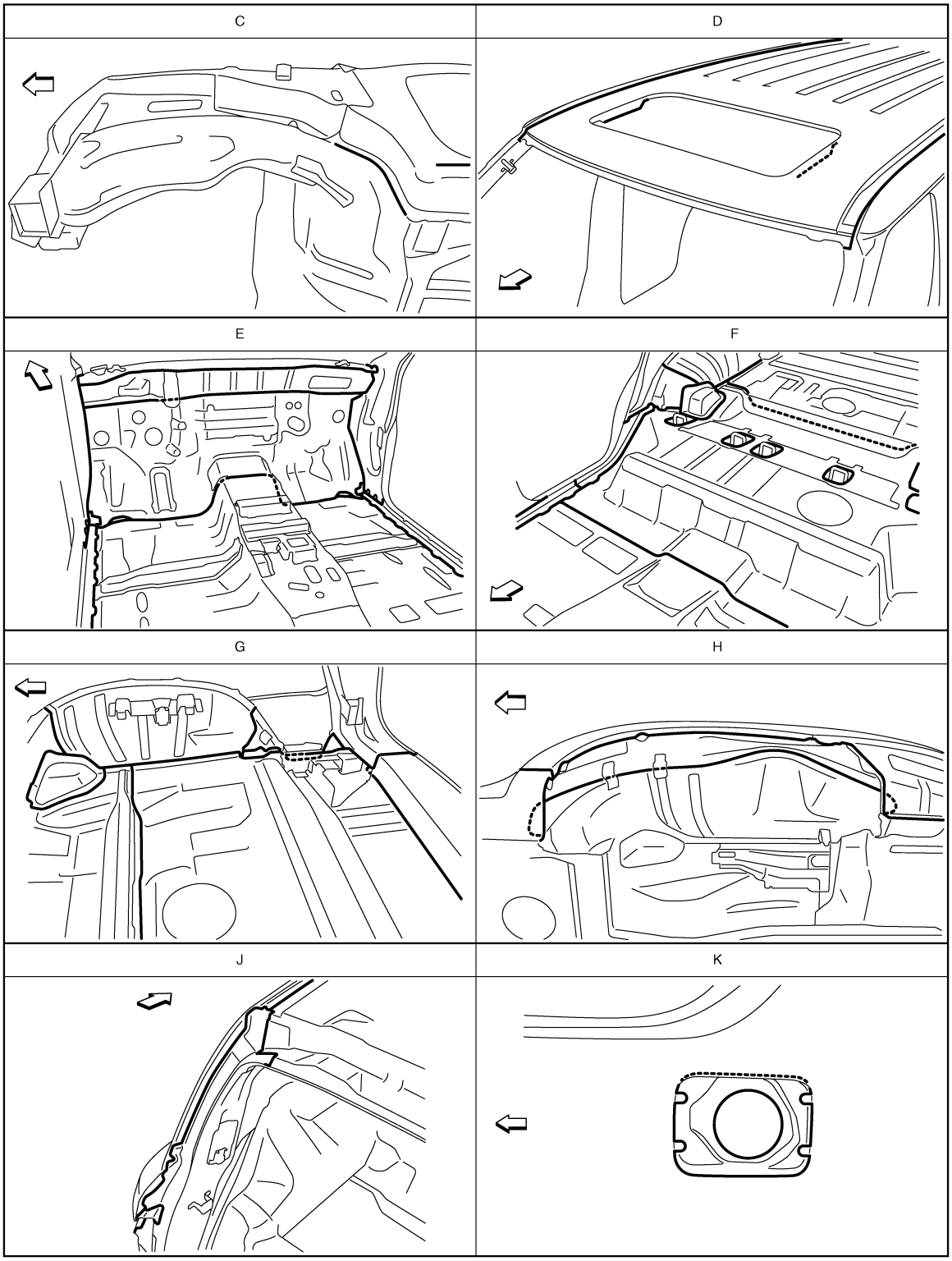




JSKIA1943ZZ

⇦: Vehicle front

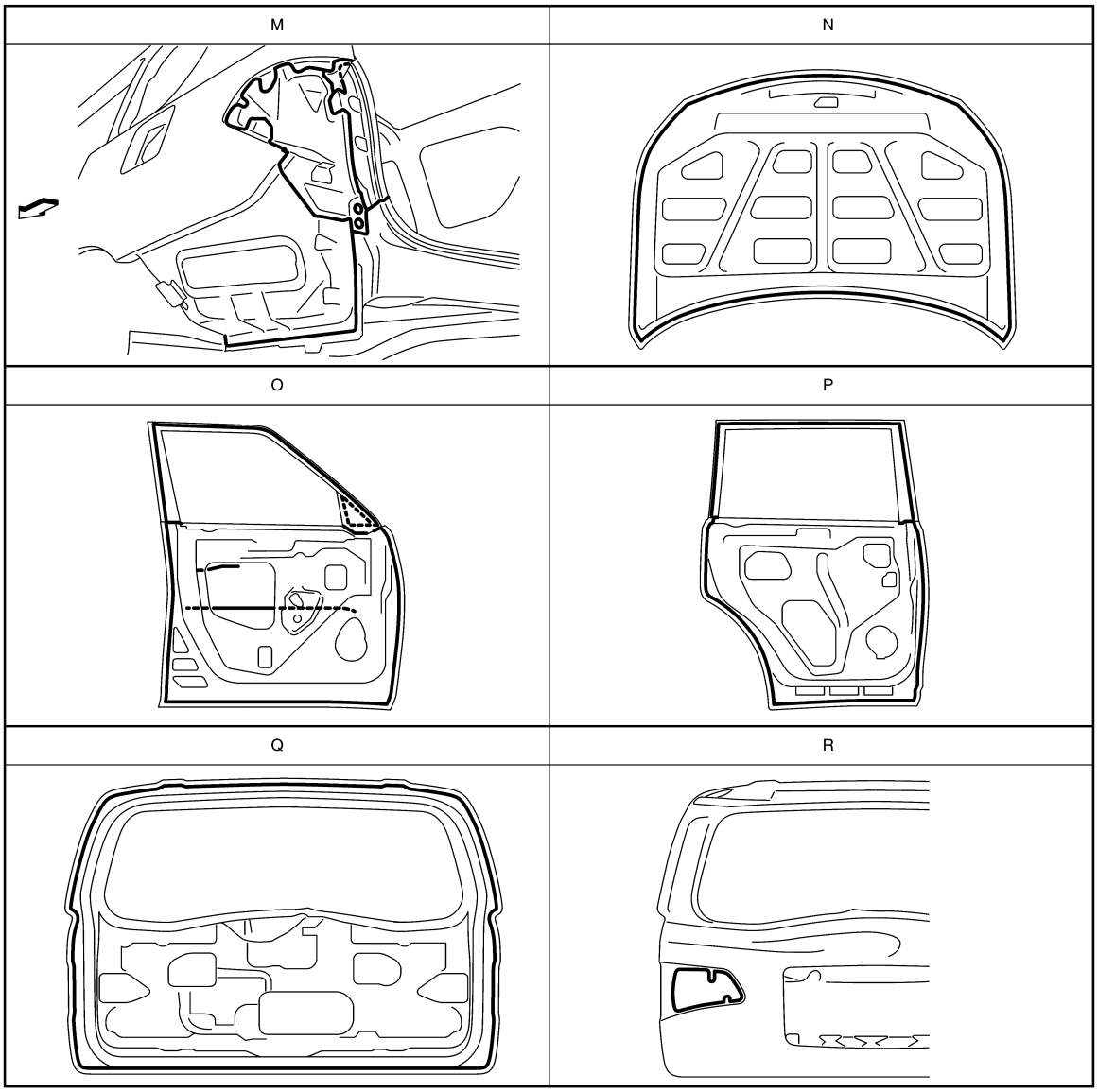
▬: Sealed portions



JSKIA1944ZZ

⇦: Vehicle front

▬: Sealed portions



JSKIA3450ZZ

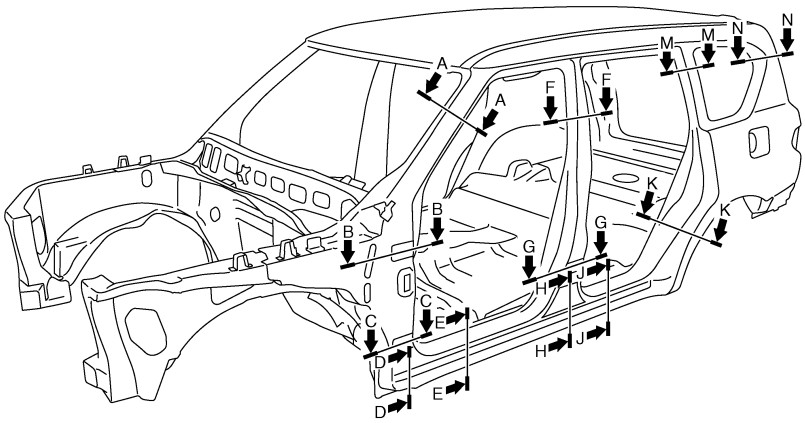
⇦: Vehicle front

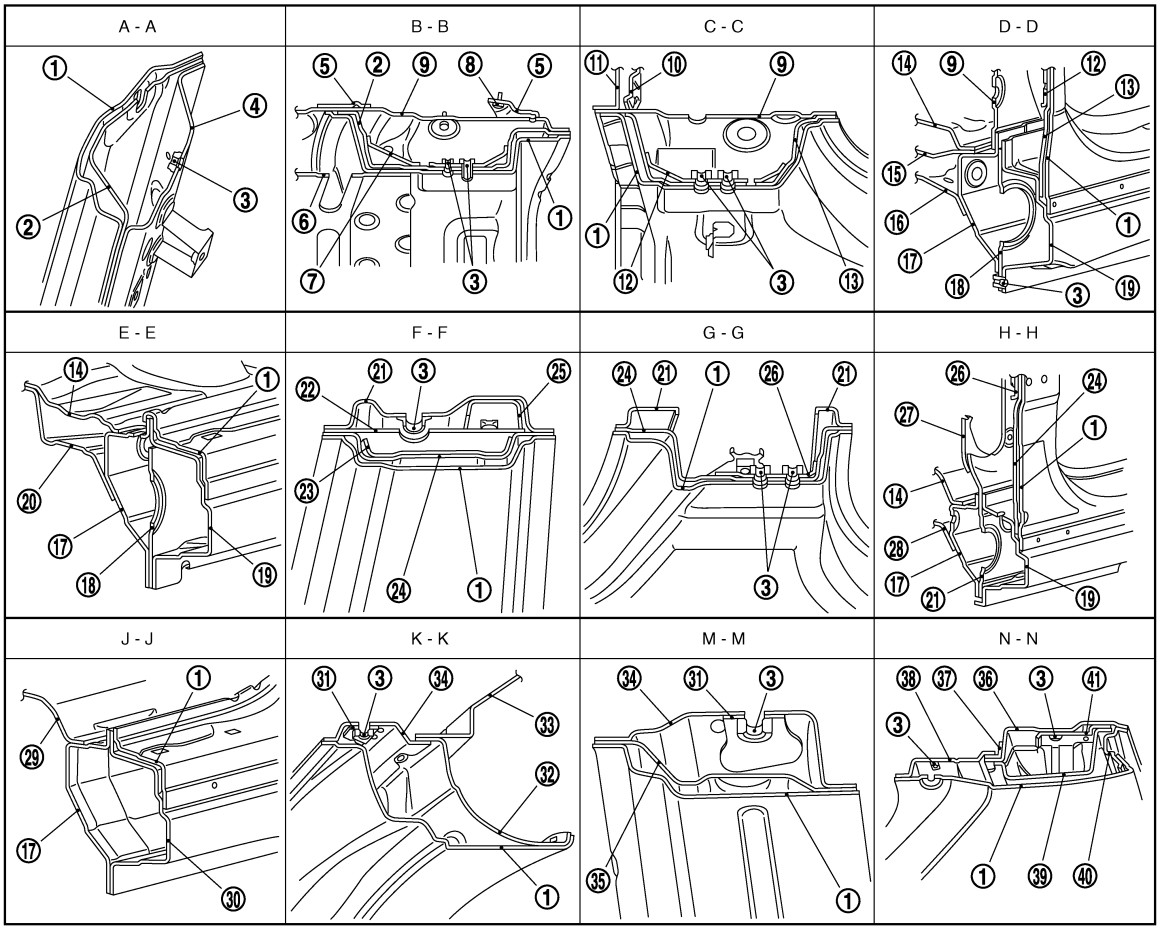
▬: Sealed portions

BODY CONSTRUCTION

Body Construction

INFOID:0000000010258678





JSKIA1894ZZ

1. Outer side body
2. Upper front pillar hinge brace
3. Weld nut
4. Upper inner front pillar
5. Parking brake bracket
6. Hoodledge reinforcement
7. Upper hinge plate
8. Weld bolt
9. Side dash

10. Lower dash reinforcement
11. Lower dash
12. Lower hinge plate (Front)
13. Lower front pillar hinge brace
14. Front floor
15. 2nd body mounting member
16. 2nd body mounting bracket
17. Inner sill
18. Center sill reinforcement
19. Outer sill reinforcement
20. Side member outrigger
21. Inner center pillar
22. Inner center pillar reinforcement
23. Upper outer center pillar reinforcement
24. Center pillar hinge brace
25. Center pillar plate
26. Lower hinge plate (Rear)
27. Lower center pillar bracket
28. 3rd body mounting bracket
29. Rear floor front
30. Outer sill rear reinforcement
31. Anchor plate
32. Outer rear wheelhouse
33. Sill closing plate
34. Inner rear pillar
35. Inner side panel reinforcement
36. Roof rail rear brace
37. Inner back pillar
38. Inner rear roof side rail
39. Back pillar reinforcement
40. Upper back pillar main
41. Back pillar seat belt anchor

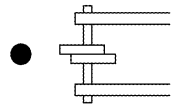
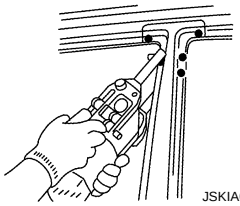
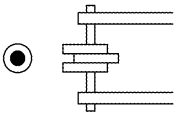
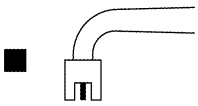
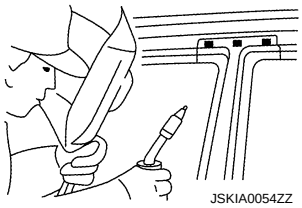
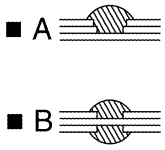
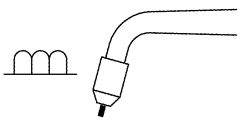
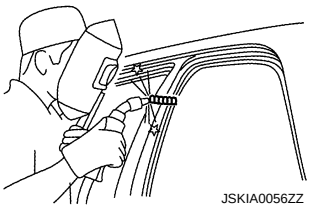
REPLACEMENT OPERATIONS

Description

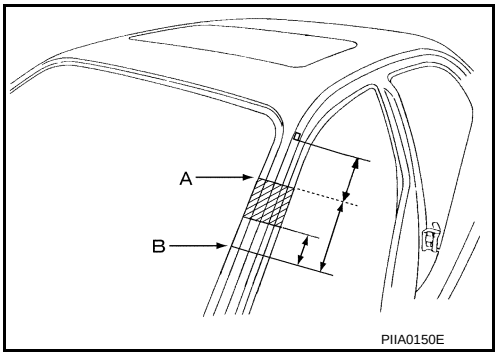
INFOID:0000000010258679

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

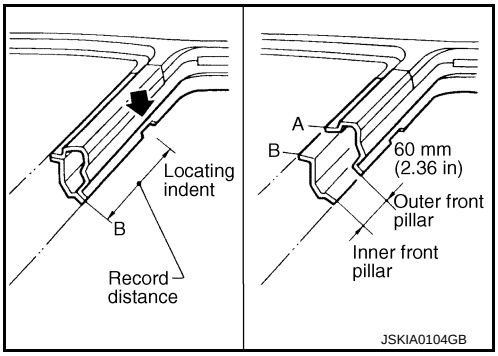
The symbols used in this section for welding operations are shown below.

<table>
<tr><th>Symbol marks</th><th colspan="2">Description</th></tr>
<tr><td> 
JSKIA0049ZZ</td><td>2-spot welds</td><td rowspan="2"> 
JSKIA0053ZZ</td></tr>
<tr><td> 
JSKIA0050ZZ</td><td>3-spot welds</td></tr>
<tr><td> 
JSKIA0051ZZ</td><td>MIG plug weld</td><td> 
JSKIA0054ZZ
For 3 panels plug weld method
 
JSKIA0055ZZ</td></tr>
<tr><td> 
JSKIA0052ZZ</td><td>MIG seam weld / Point weld</td><td> 
JSKIA0056ZZ</td></tr>
</table>

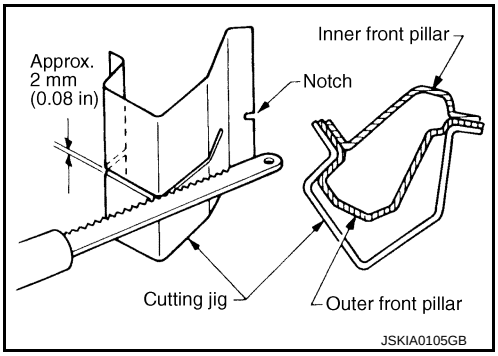
- Front pillar butt joint can be determined anywhere within shaded area as shown in the figure. The best location for the butt joint is at position A due to the construction of the vehicle.



- 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.

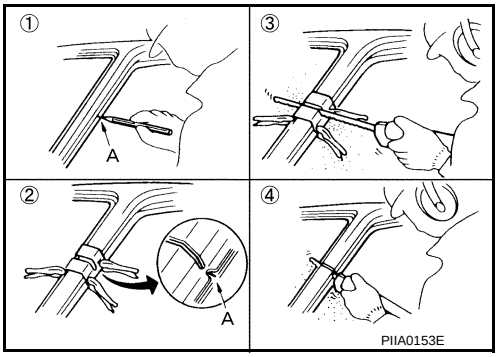


- Prepare a cutting jig to make outer pillar easier to cut. Also, this will permit the service part to be accurately cut at the joint position.



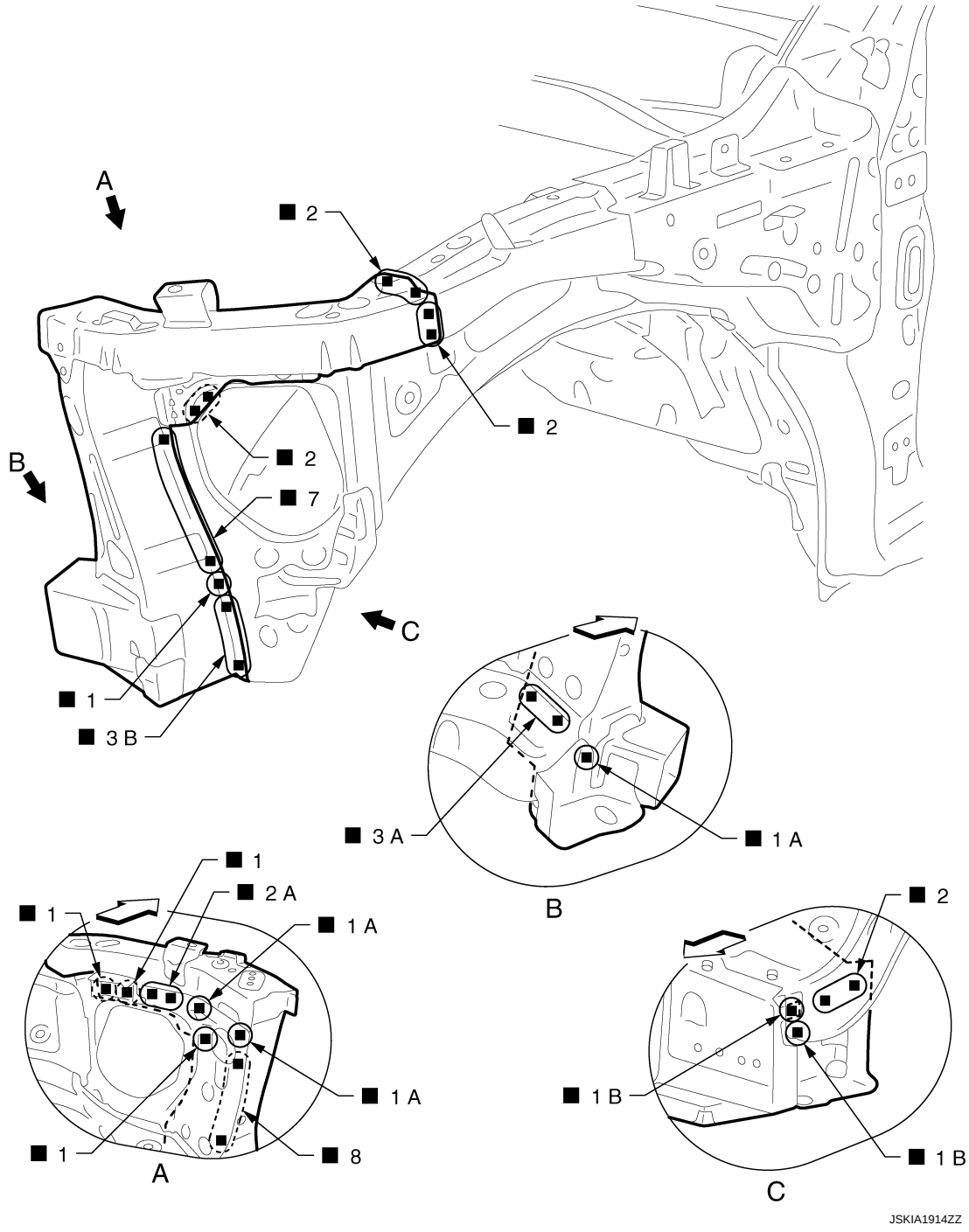
- An example of cutting operation using a cutting jig is as per the following.

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.



Radiator Core Support

INFOID:0000000010258680



⇦: Vehicle front

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

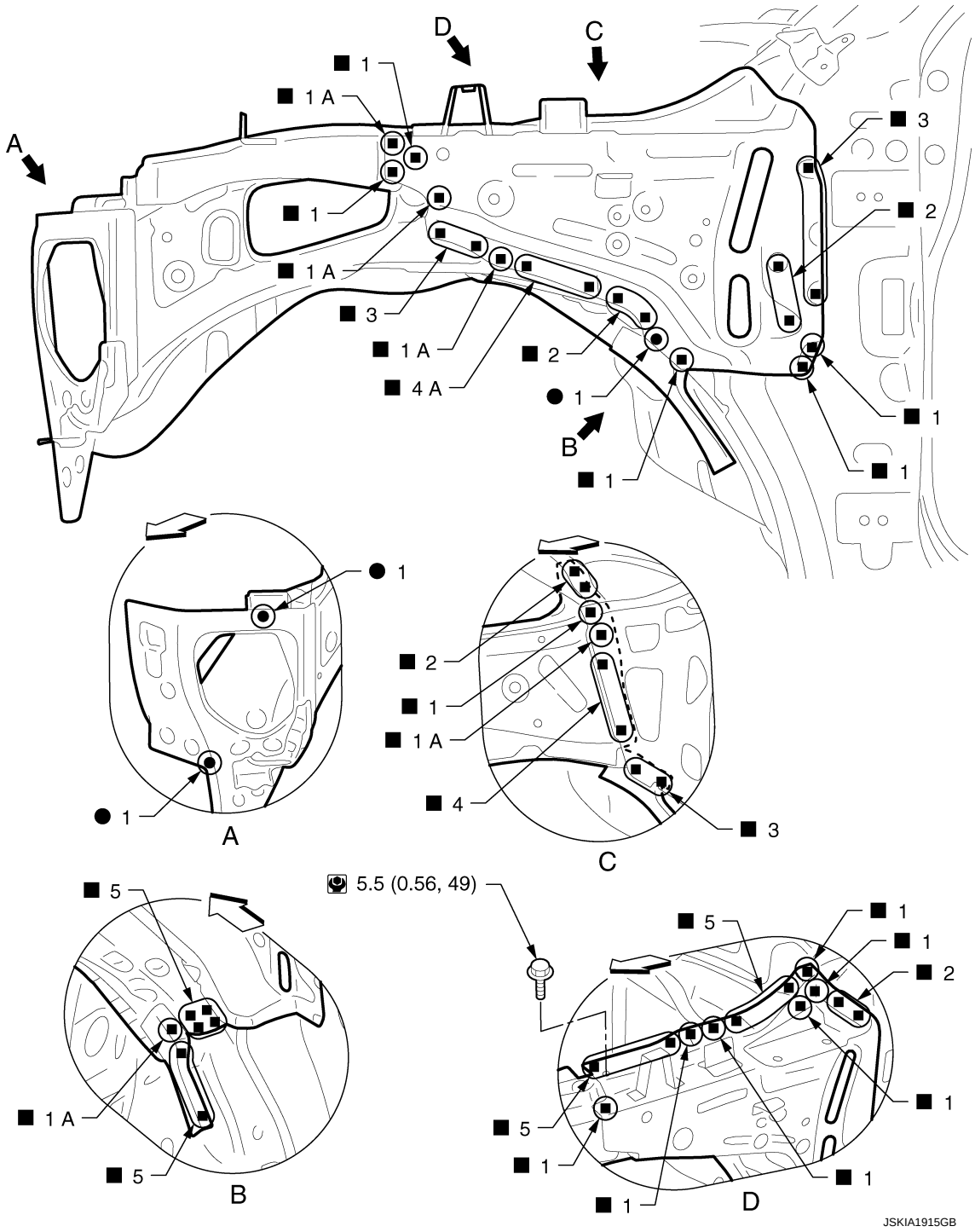
Replacement parts

- Side radiator core support (LH)

Hoodledge

INFOID:0000000010258681

Work after radiator core support is removed.



⇦: Vehicle front
Refer to GI-4, "Components" for symbols in the figure.

Replacement parts

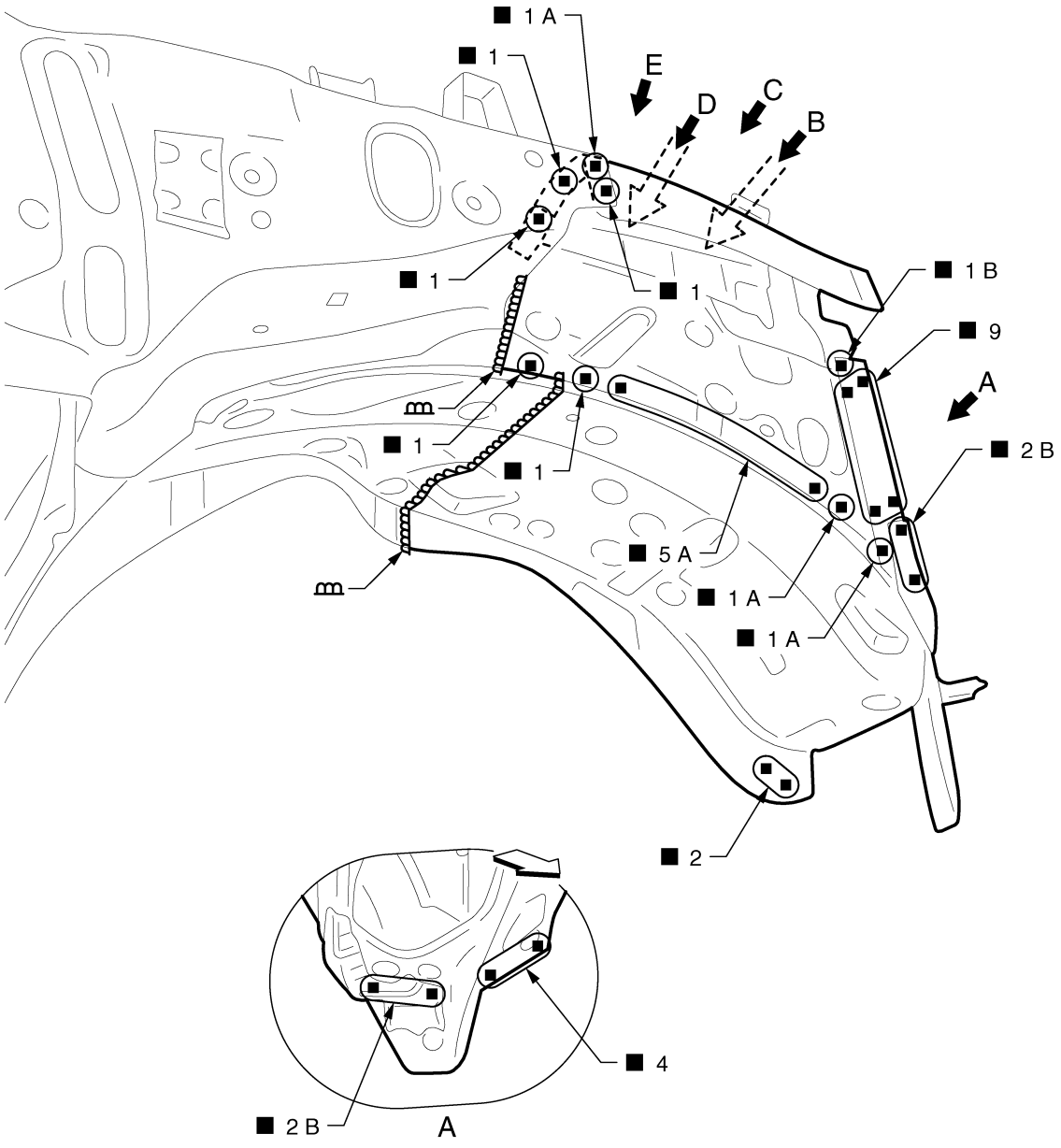
- Hoodledge assembly (LH)
- Hoodledge reinforcement (LH)

View C: Before installing hoodledge reinforcement

Hoodledge (Partial Replacement)

INFOID:0000000010258682

Work after radiator core support is removed.
Remove the connector hoodledge bracket assembly (reusable) from the service part "upper rear hoodledge" for easier installation.

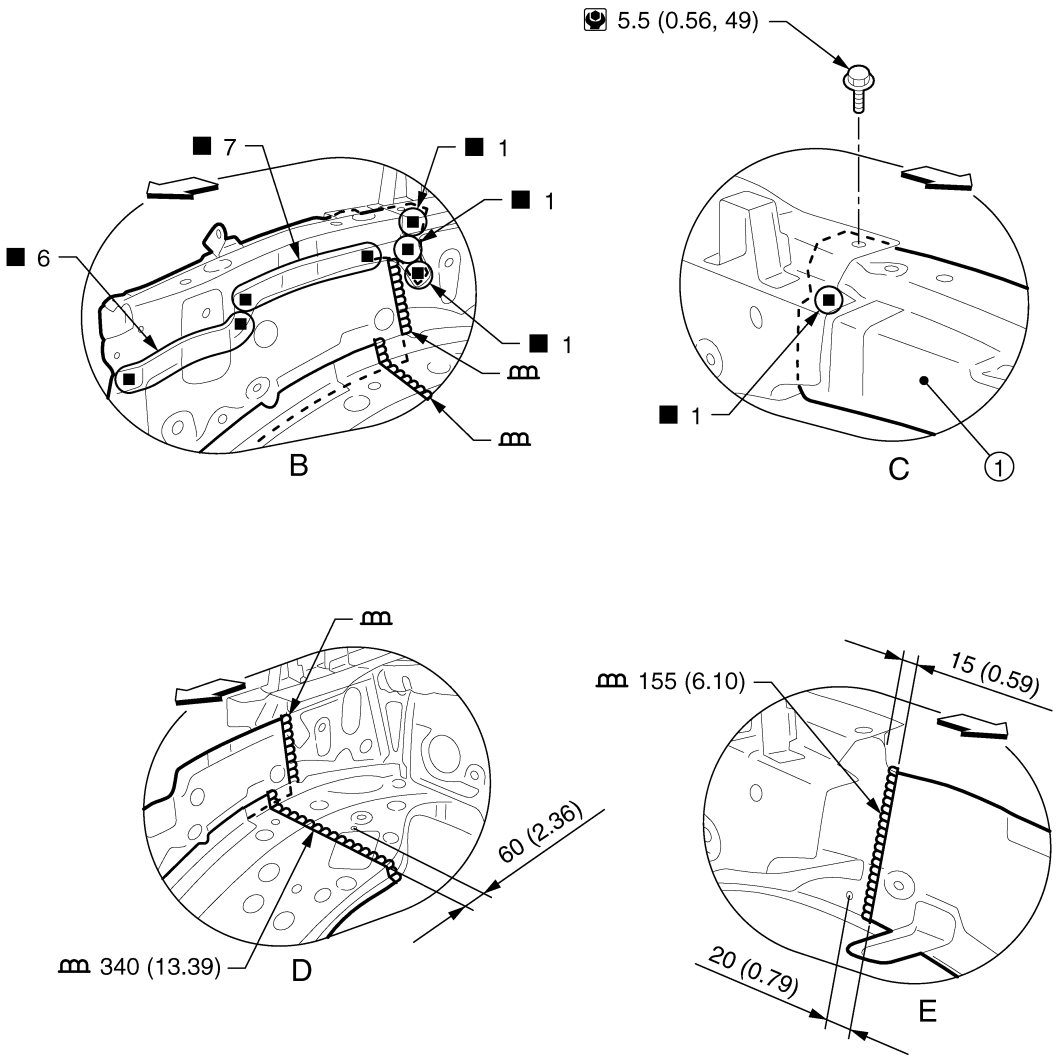


JSKIA1916ZZ

⇦: Vehicle front

Replacement parts

- Upper rear hoodledge (RH)
- Upper hoodledge (RH)
- Lower hoodledge (RH)



JSKIA1917GB

1. Connector hoodledge bracket assembly

Unit: mm (in)

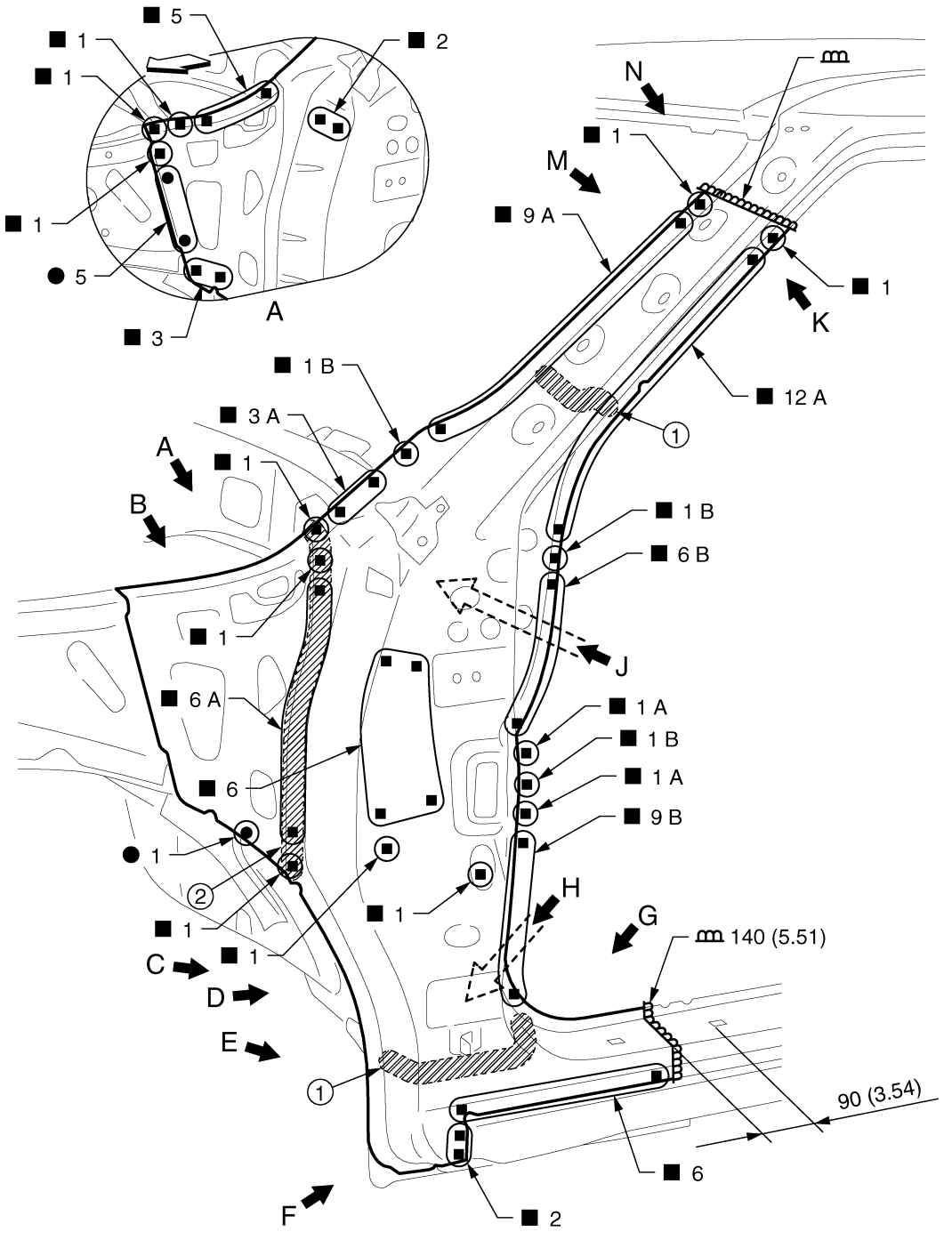
⇦: Vehicle front
Refer to GI-4, "Components" for symbols in the figure.

View D and E: Before installing connector hoodledge bracket assembly

Front Pillar

INFOID:0000000010258683

Work after hoodledge reinforcement is removed.



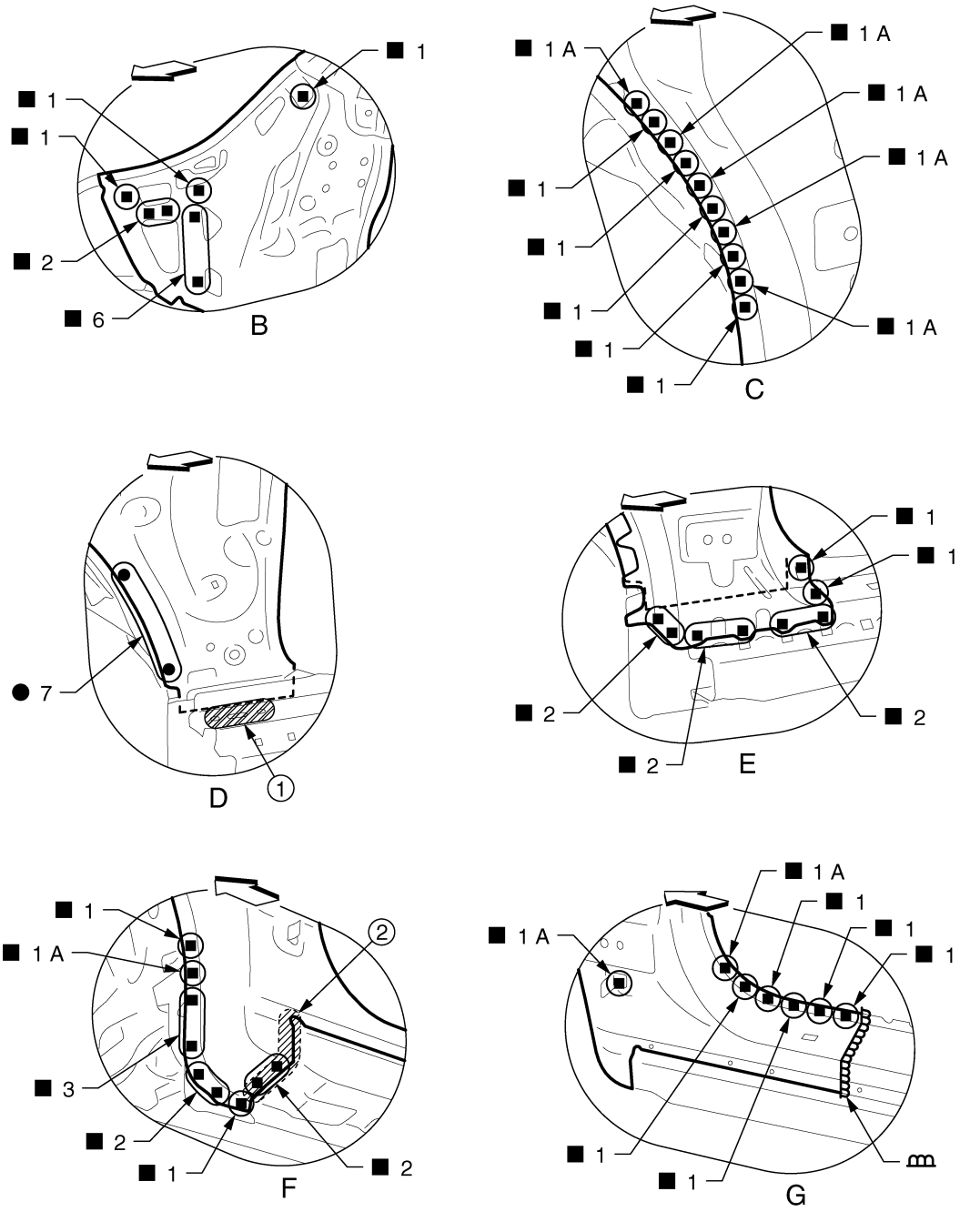
1. Urethane foam
2. Body sealing

Unit: mm (in)

⇦: Vehicle front

Replacement parts

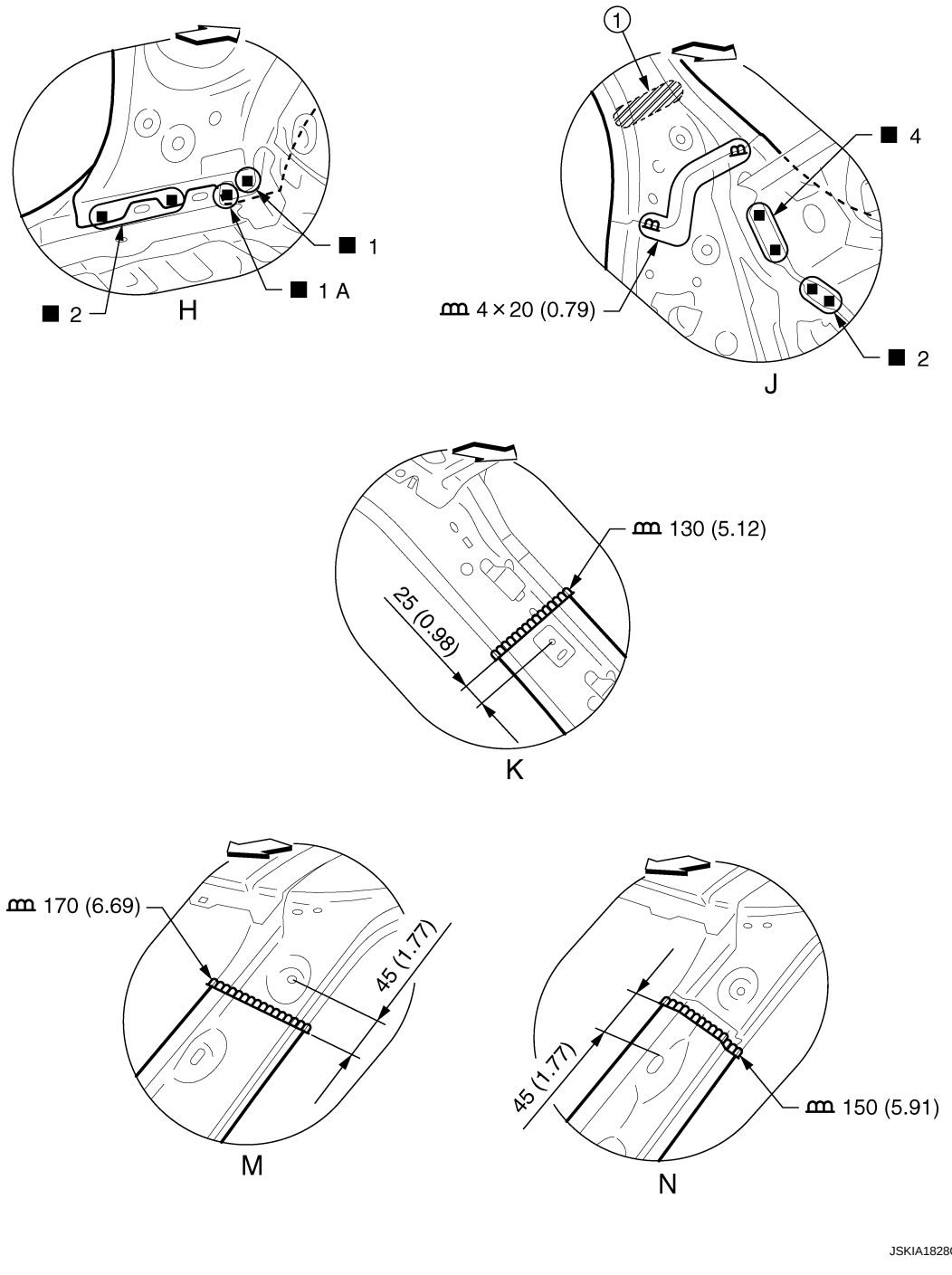
- Outer front side body (LH)
- Front pillar brace (LH)
- Front fender bracket assembly (LH)
- Upper inner front pillar (LH)
- Side dash (LH)



1. Urethane foam
2. Body sealing

⇦: Vehicle front

View B and D: Before installing outer front side body and front pillar brace
View E: Before installing outer front side body



JSKIA1828GB

1. Urethane foam

Unit: mm (in)

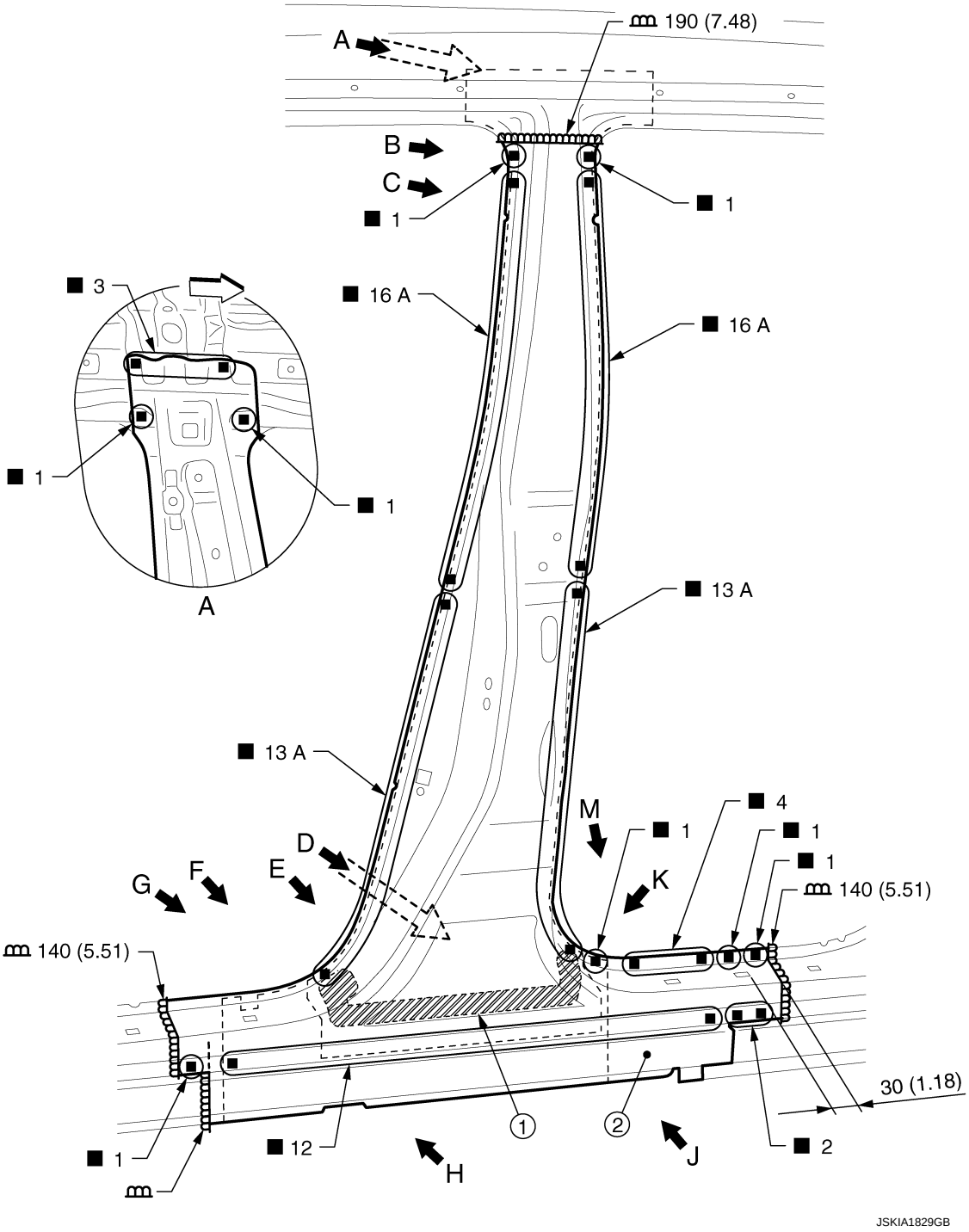
⇦: Vehicle front

View N: Before installing outer front side body

Center Pillar

INFOID:0000000010258684

Remove the outer sill reinforcement (reusable) for easier installation.



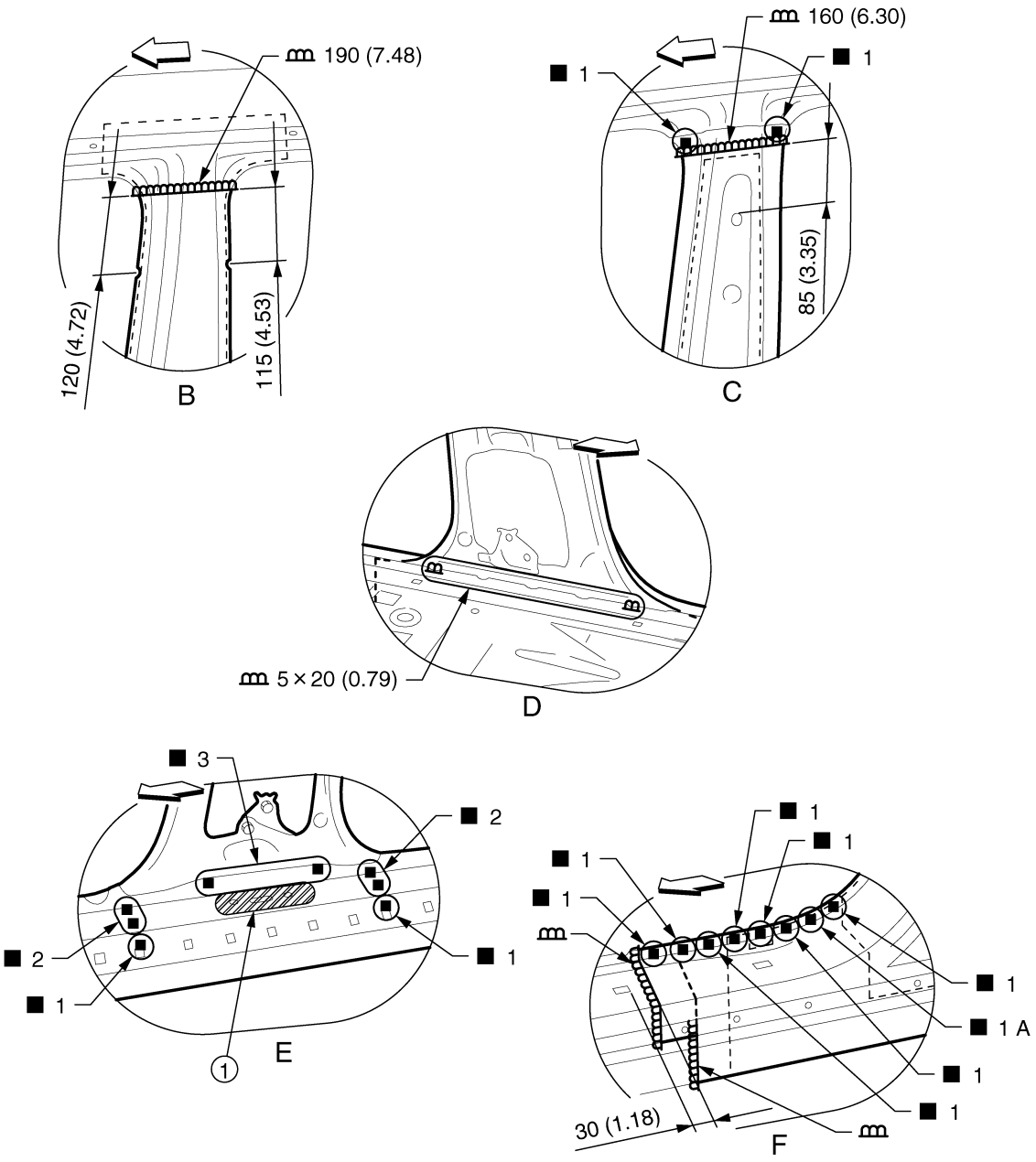
1. Urethane foam
2. Outer sill reinforcement

Unit: mm (in)

⇦: Vehicle front

Replacement parts

- Outer front side body (LH)
- Lower center pillar brace (LH)
- Inner center pillar (LH)



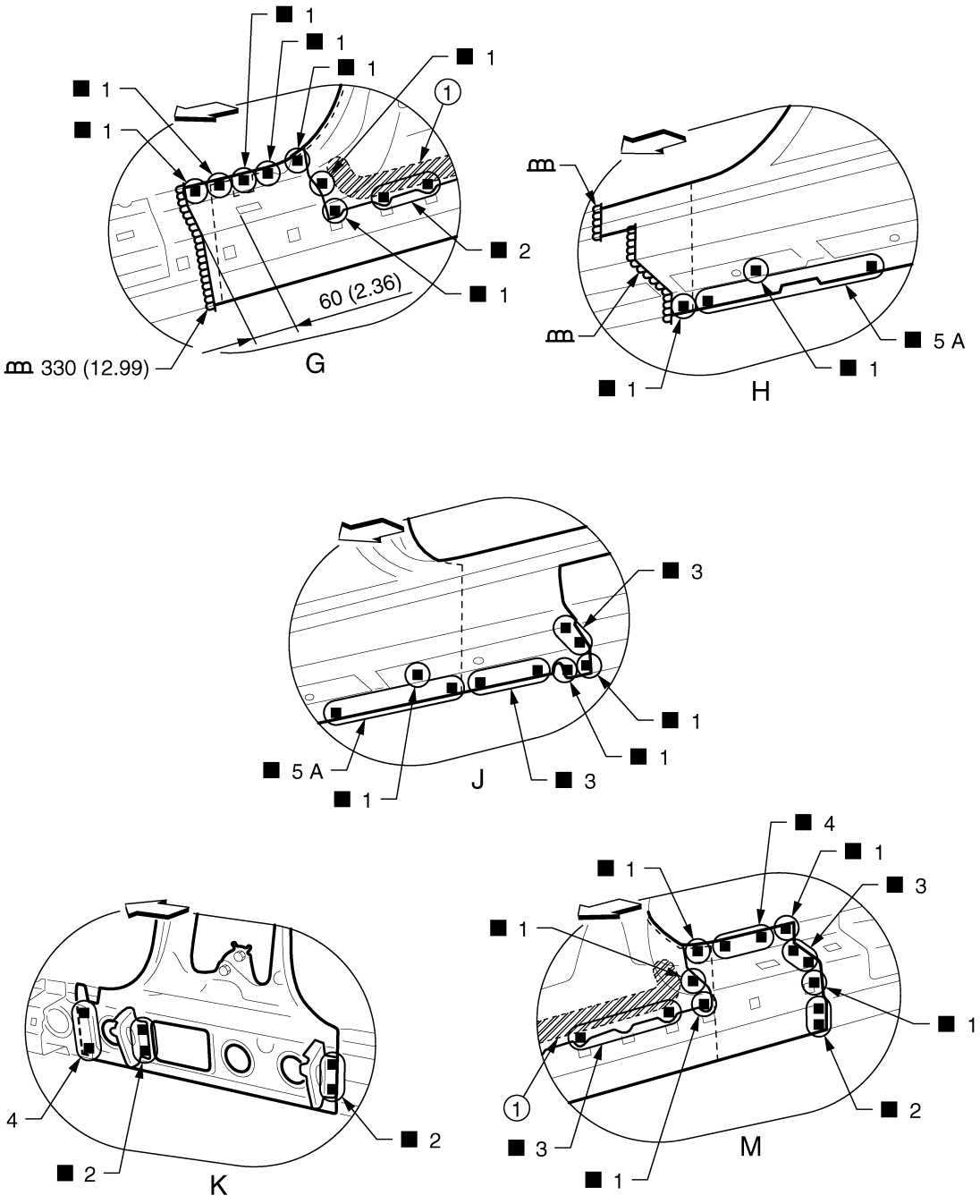
JSKIA1830GB

1. Urethane foam

Unit: mm (in)

⇦: Vehicle front

View C: Before installing outer front side body
View E: Before installing outer front side body and lower center pillar brace



JSKIA1919GB

1. Urethane foam

Unit: mm (in)

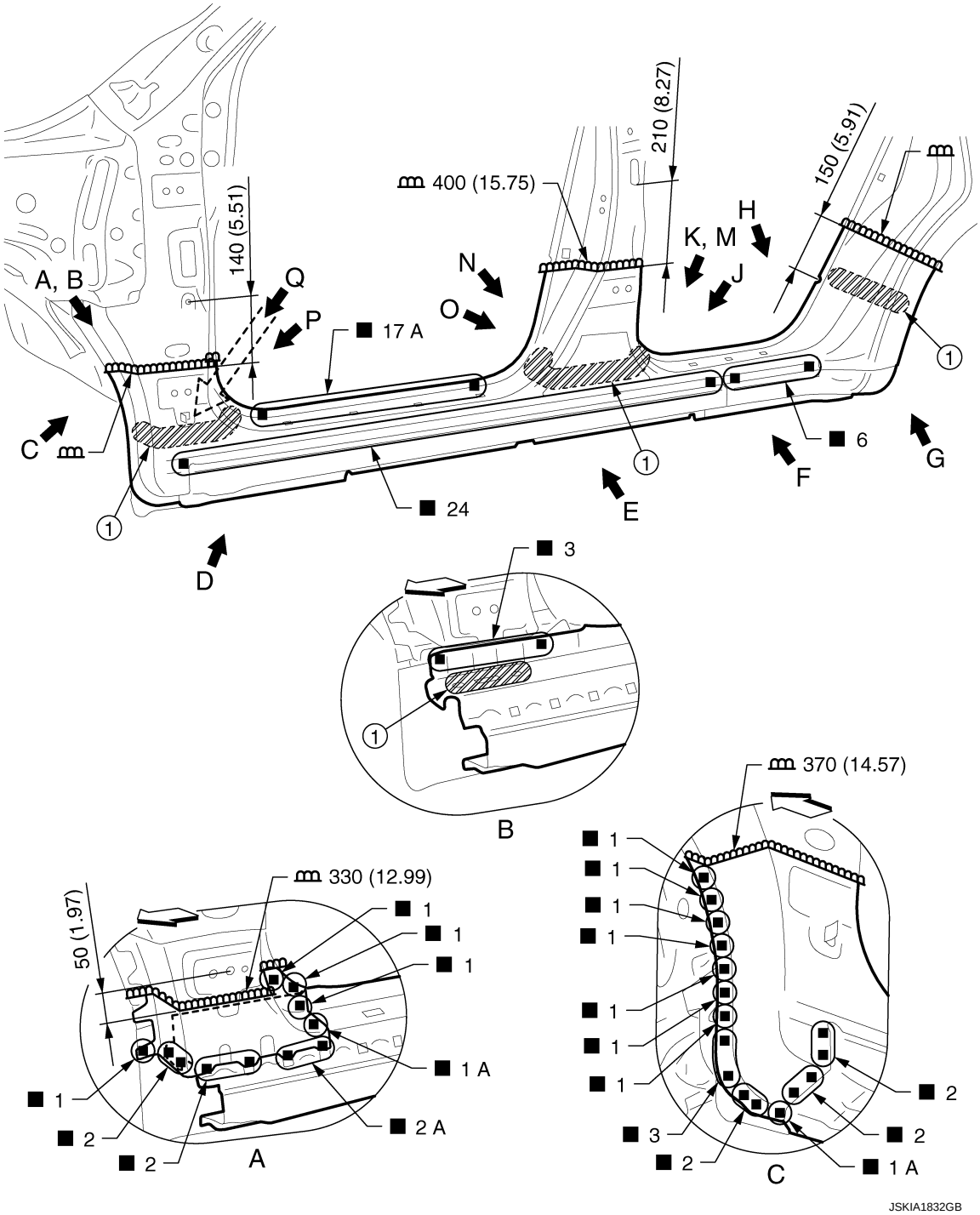
⇦: Vehicle front

View G and M: Before installing outer front side body
View K: Before installing outer front side body, lower center pillar brace, and outer sill reinforcement

Outer Sill

INFOID:0000000010258685

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



1. Urethane foam

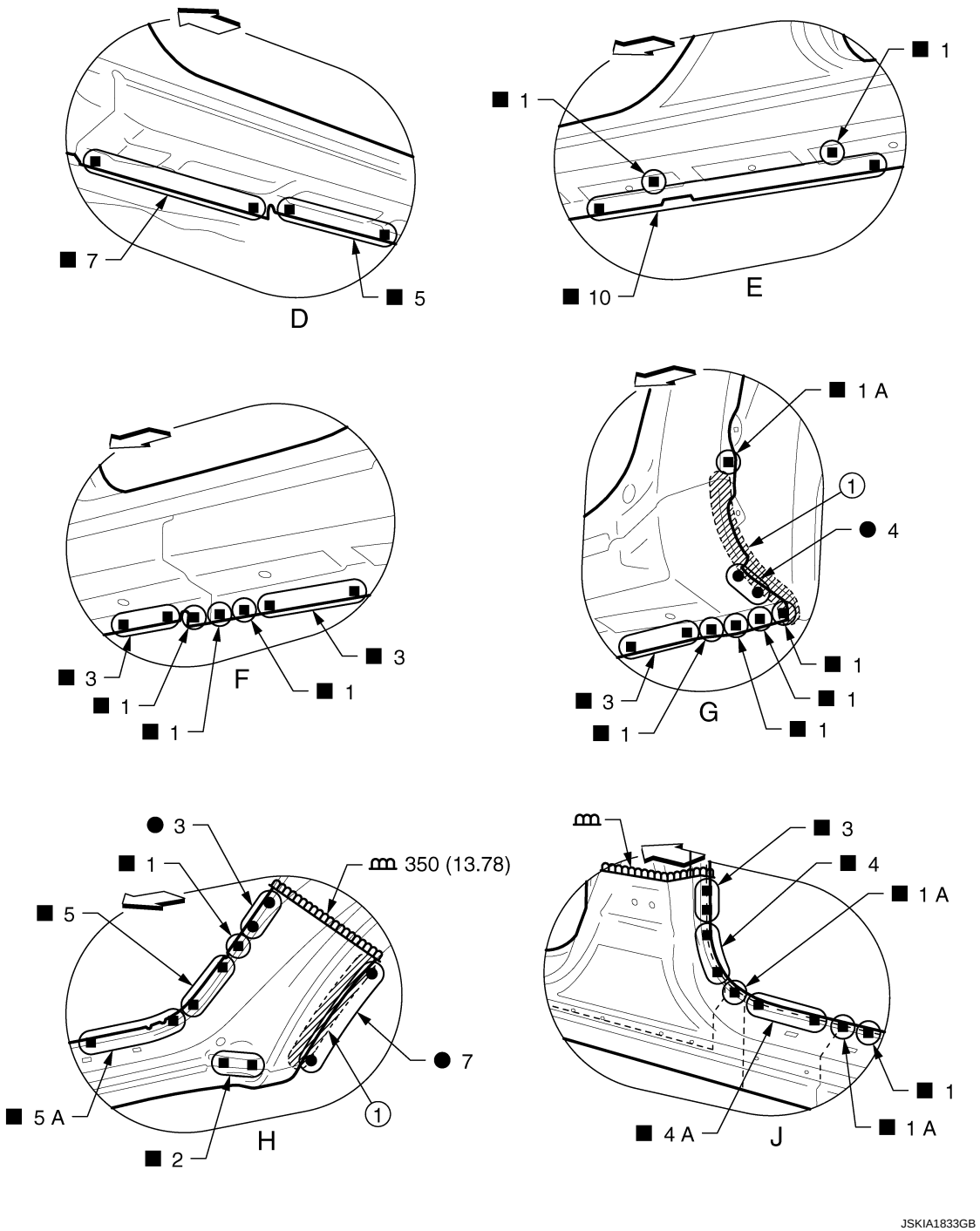
Unit: mm (in)

⇦: Vehicle front

Replacement parts

- Outer sill (LH)
- Outer sill reinforcement (LH)
- Front fender bracket assembly (LH)

View A: Before installing outer sill
View B: Before installing outer sill and front pillar brace

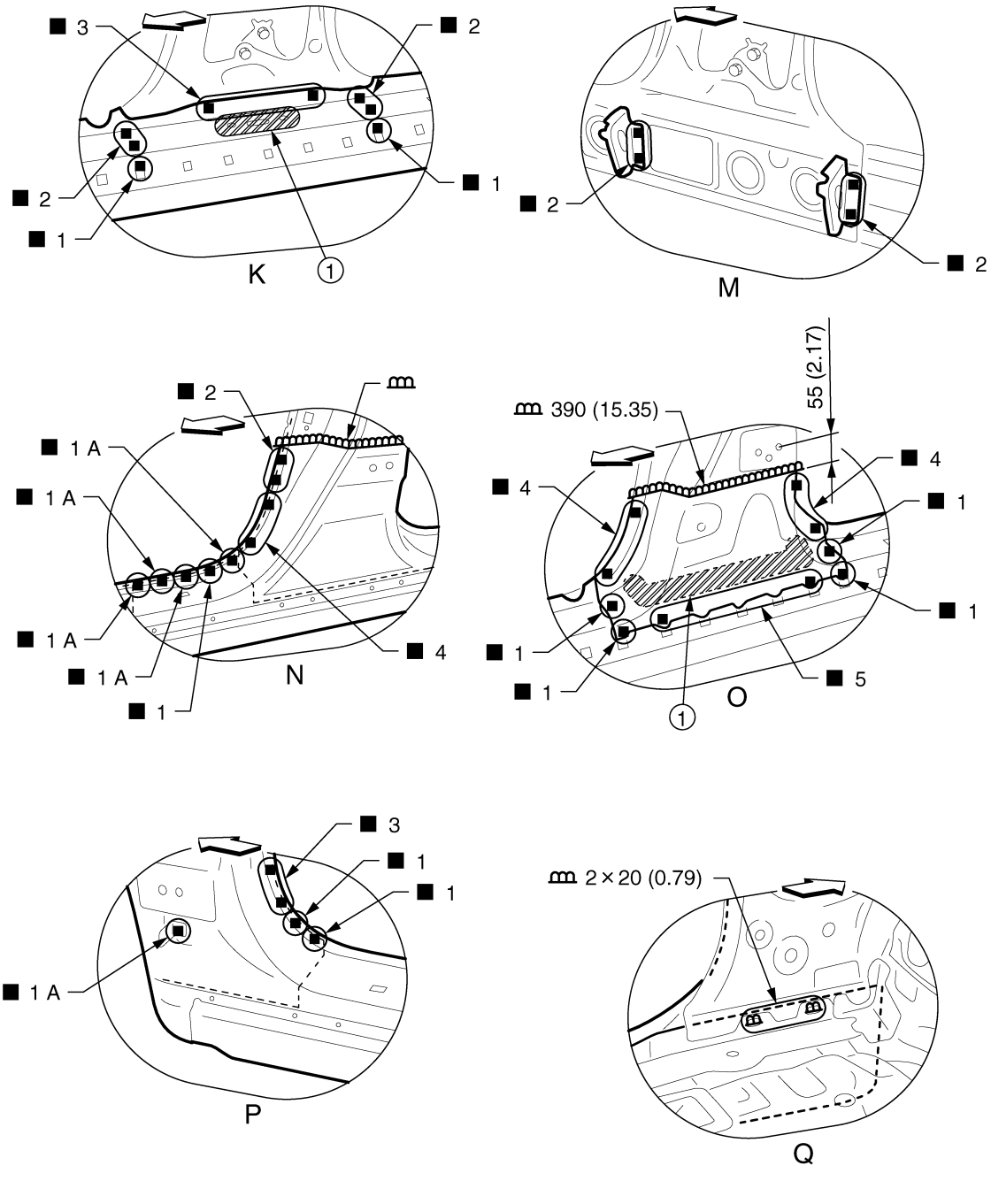


JSKIA1833GB

1. Body sealing

Unit: mm (in)

⇦: Vehicle front



JSKIA1834GB

1. Urethane foam
2. Body sealing

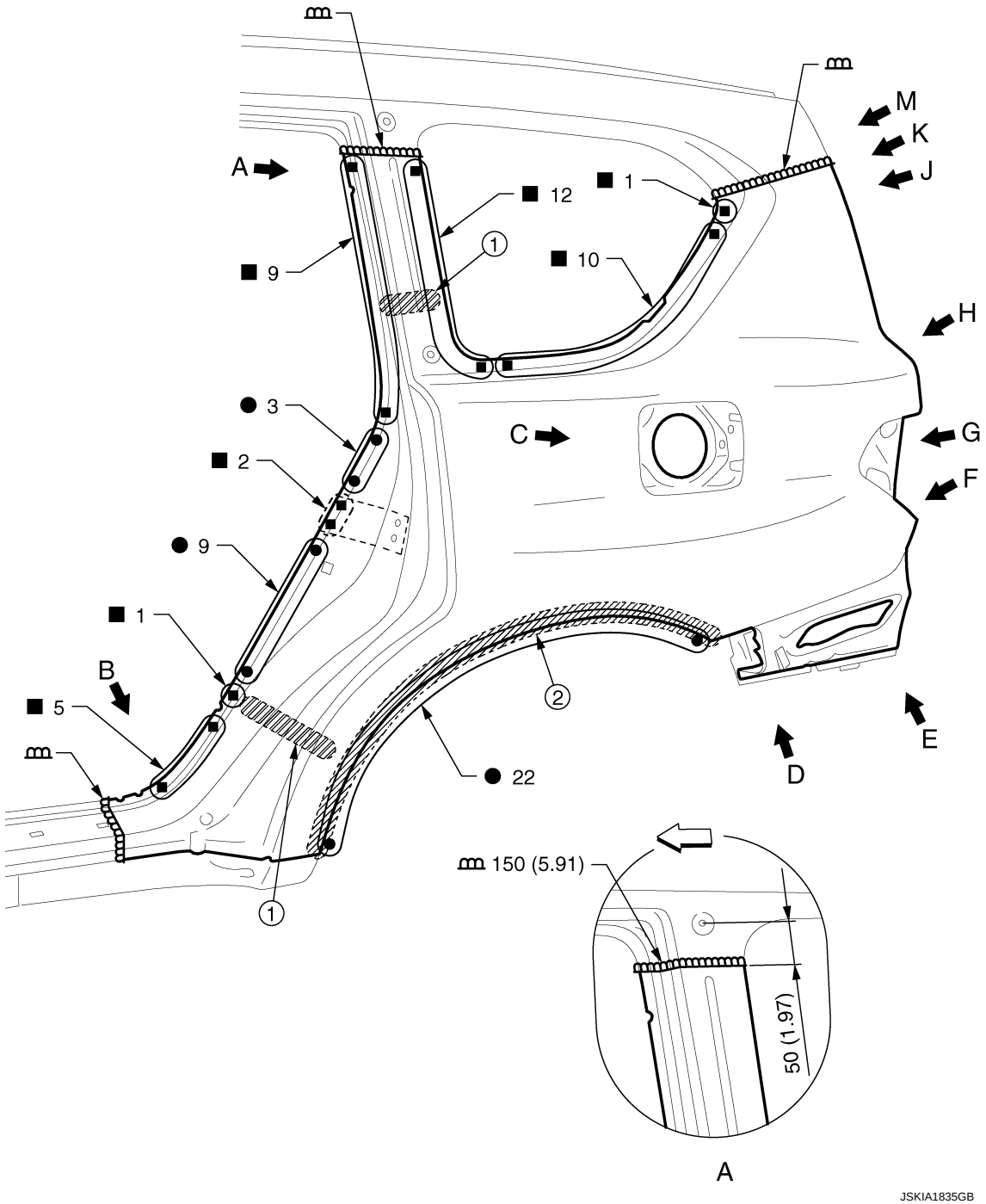
Unit: mm (in)

⇦: Vehicle front

View K: Before installing outer sill and lower center pillar brace
View M: Before installing outer sill, lower center pillar brace, and outer sill reinforcement
View O: Before installing outer sill

Rear Fender

INFOID:0000000010258686



1. Urethane foam
2. Body sealing

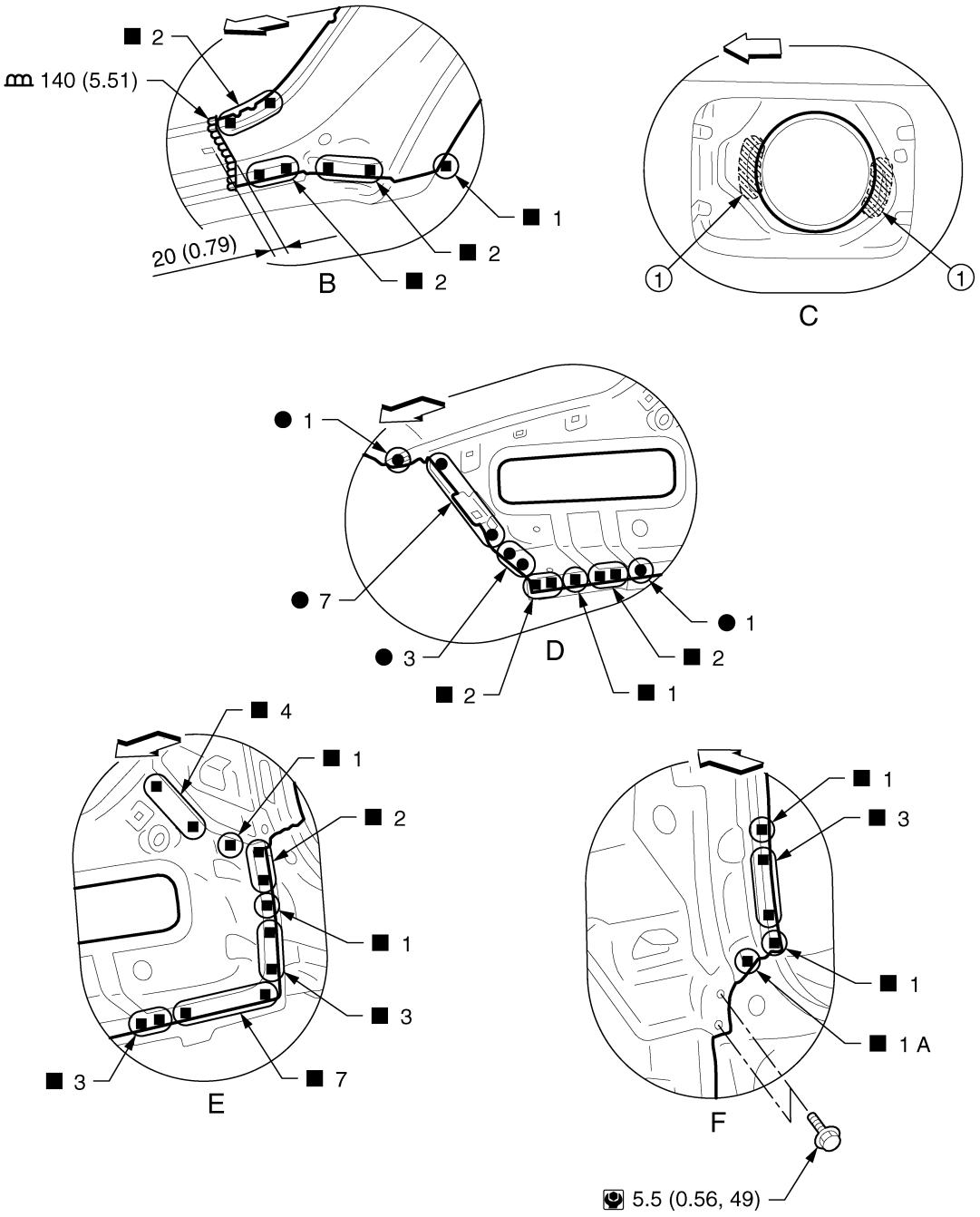
Unit: mm (in)

⇦: Vehicle front

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

Replacement parts

- Rear fender (LH)



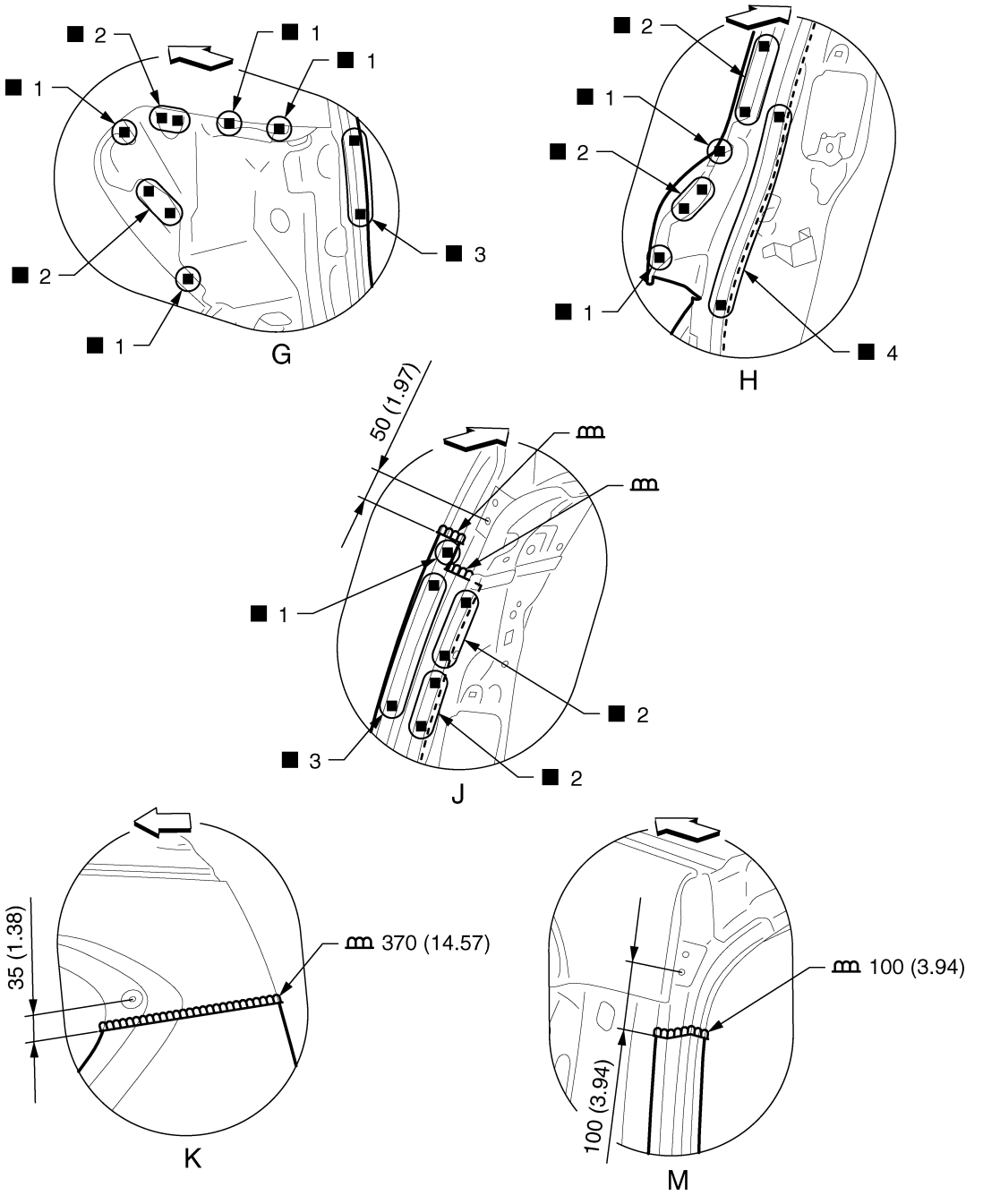
JSKIA1836GB

1. Adhesive

Unit: mm (in)

⇦: Vehicle front

Refer toGI-4, "Components" for symbols in the figure.



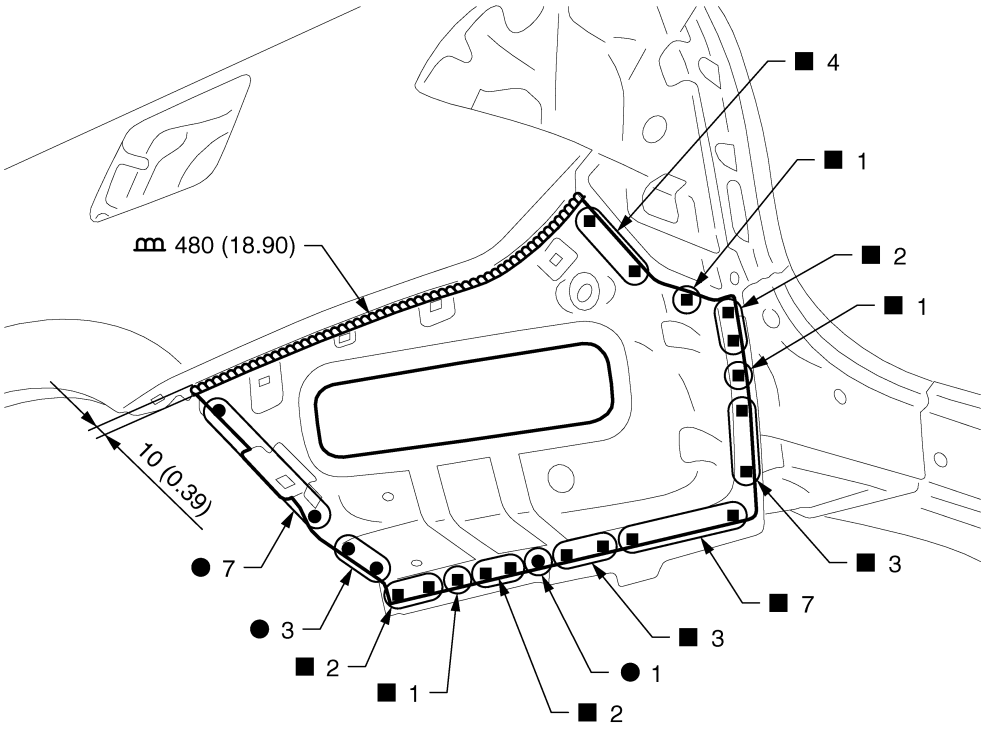
Unit: mm (in)

⇦: Vehicle front

View M: Before installing rear fender

Rear Fender Extension

INFOID:0000000010258687



JSKIA1838GB

Unit: mm (in)

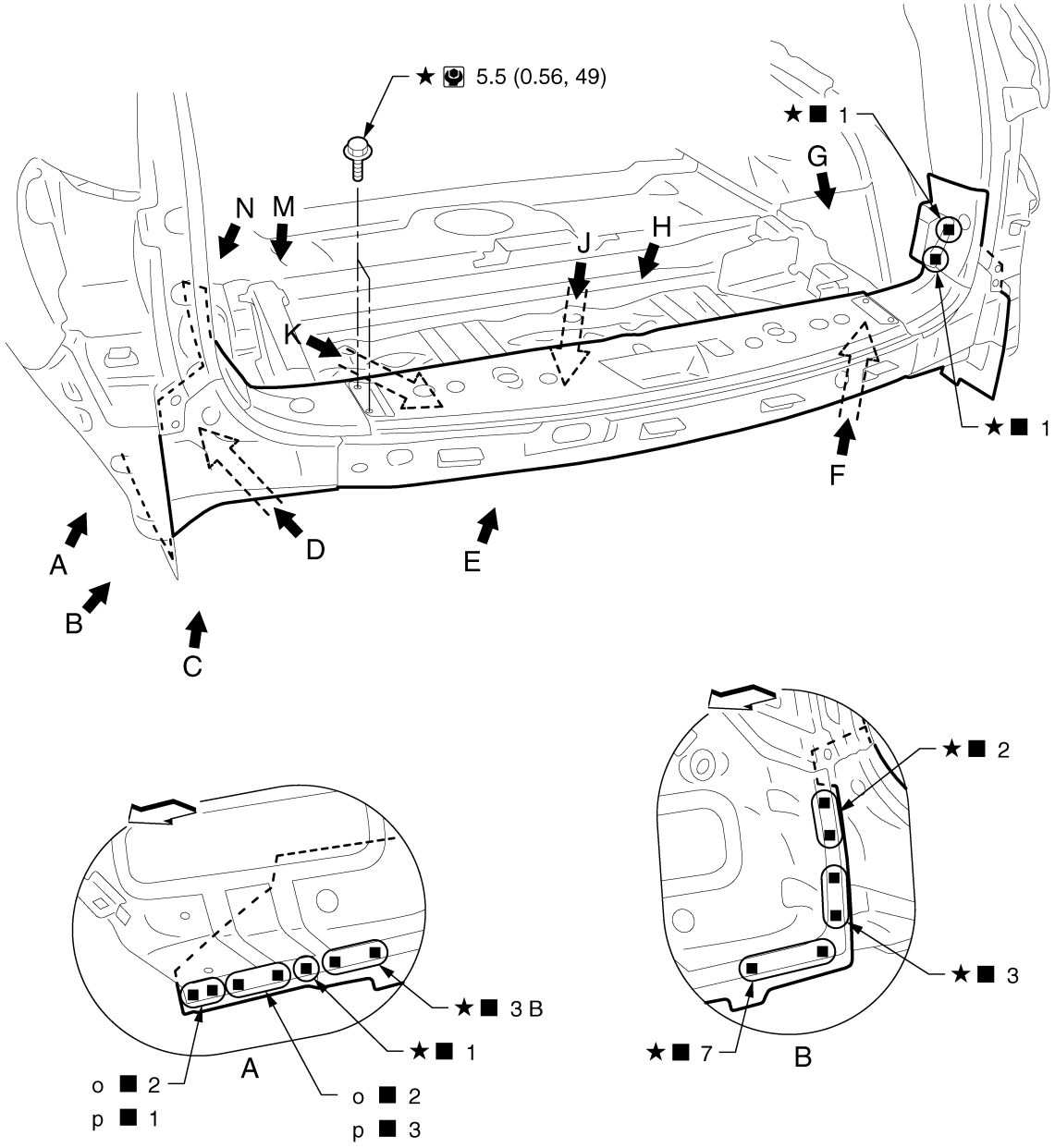
Replacement parts

- Rear fender extension (LH)

Rear Panel and Rear End Crossmember

INFOID:0000000010258688

Remove the rear side member (reusable) and the rear end cross bracket (reusable) for easier installation.



JSKIA1920GB

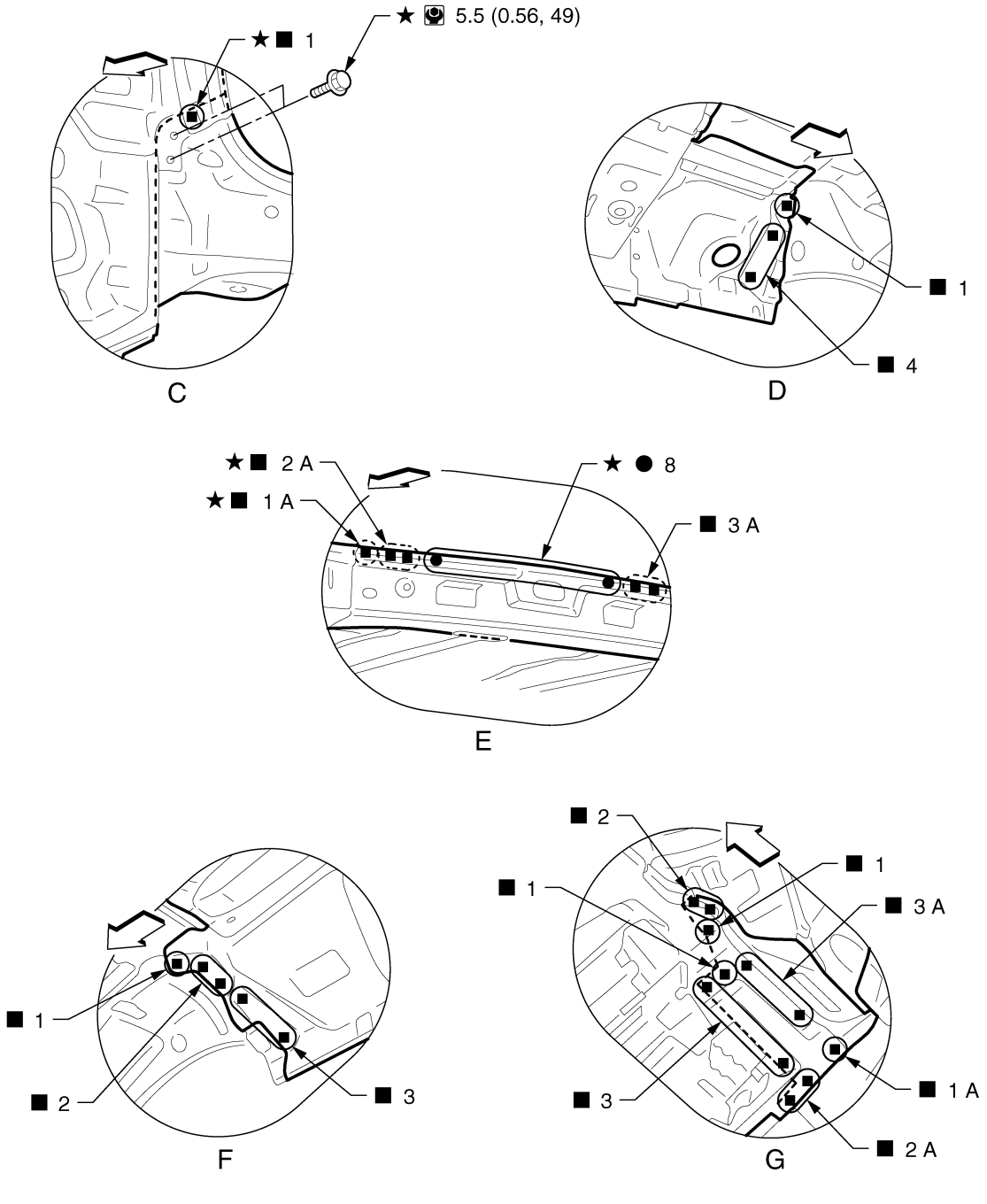
o. Left side
p. Right side

⇦: Vehicle front

★: Welding method, the number of welding points, and the tightening torque apply to both side of the vehicle. Refer to GI-4, "Components" for symbols in the figure.

Replacement parts

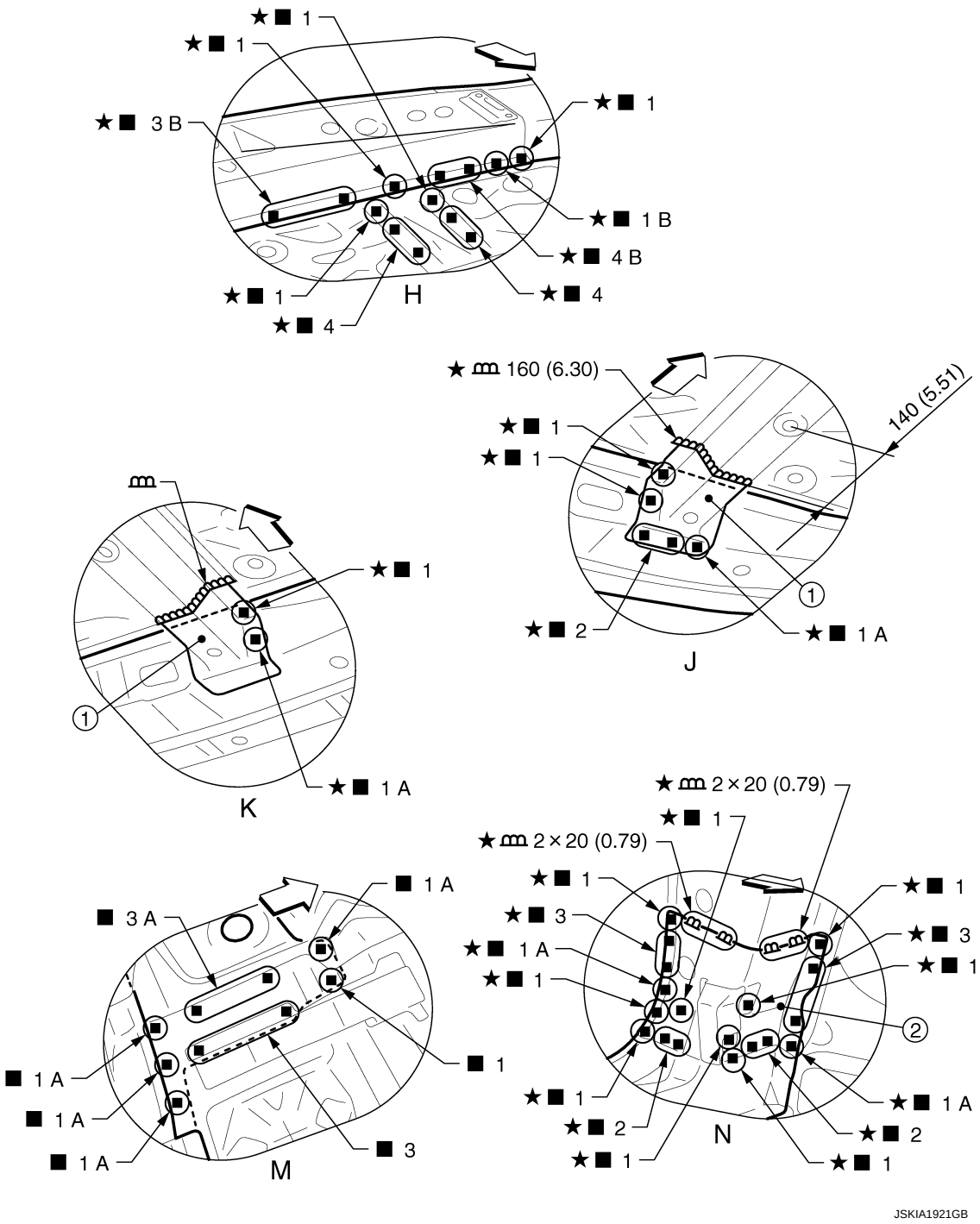
- Rear crossmember
- Upper rear end crossmember assembly



⇦: Vehicle front.

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

★: Welding method, the number of welding points, and the tightening torque apply to both side of the vehicle.
Refer to GI-4, "Components" for symbols in the figure.



JSKIA1921GB

1. Rear side member
2. Rear end cross bracket

Unit: mm (in)

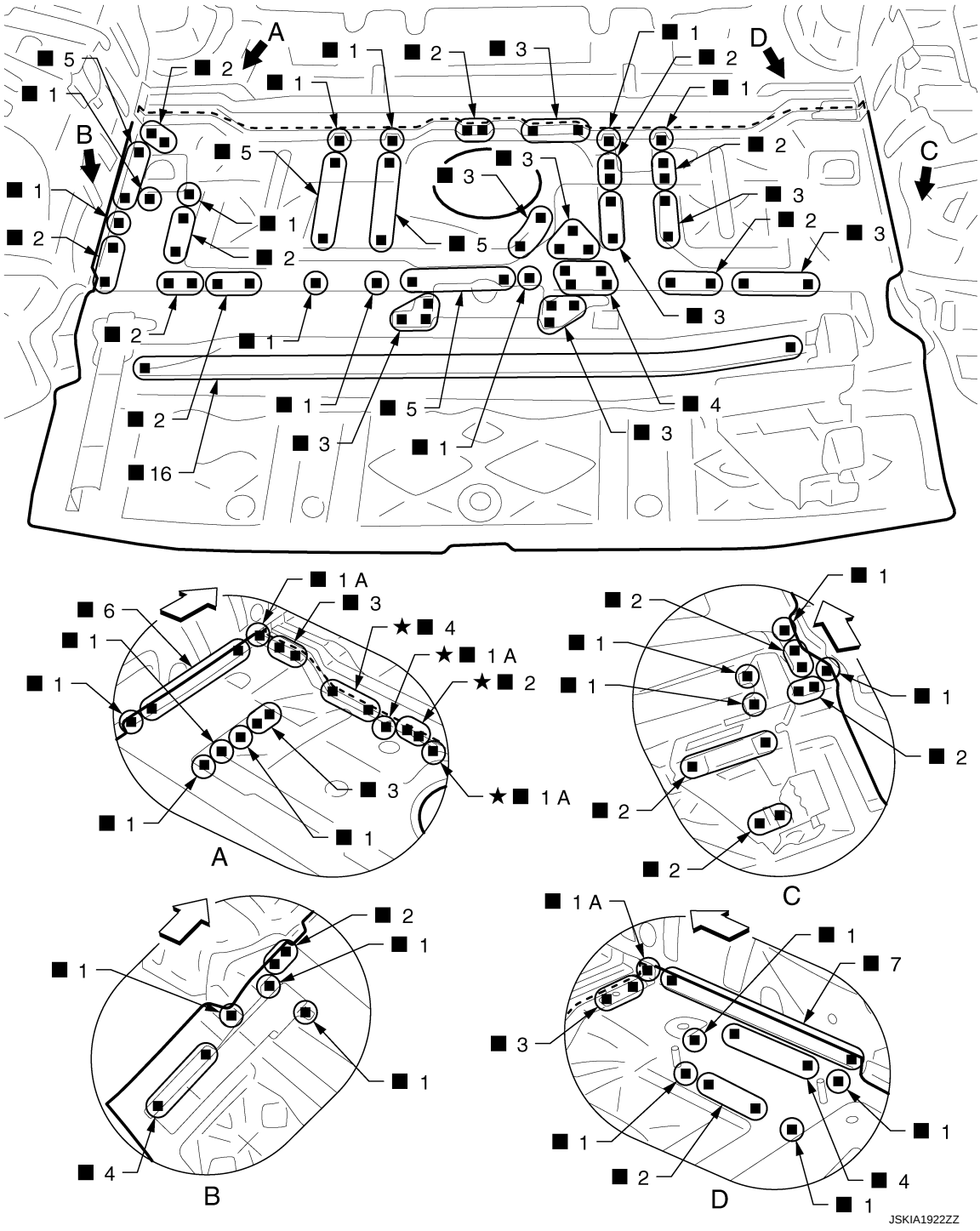
⇦: Vehicle front

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

Rear Floor Rear

INFOID:0000000010258689

Work after rear panel and rear end crossmember are removed.



⇦: Vehicle front

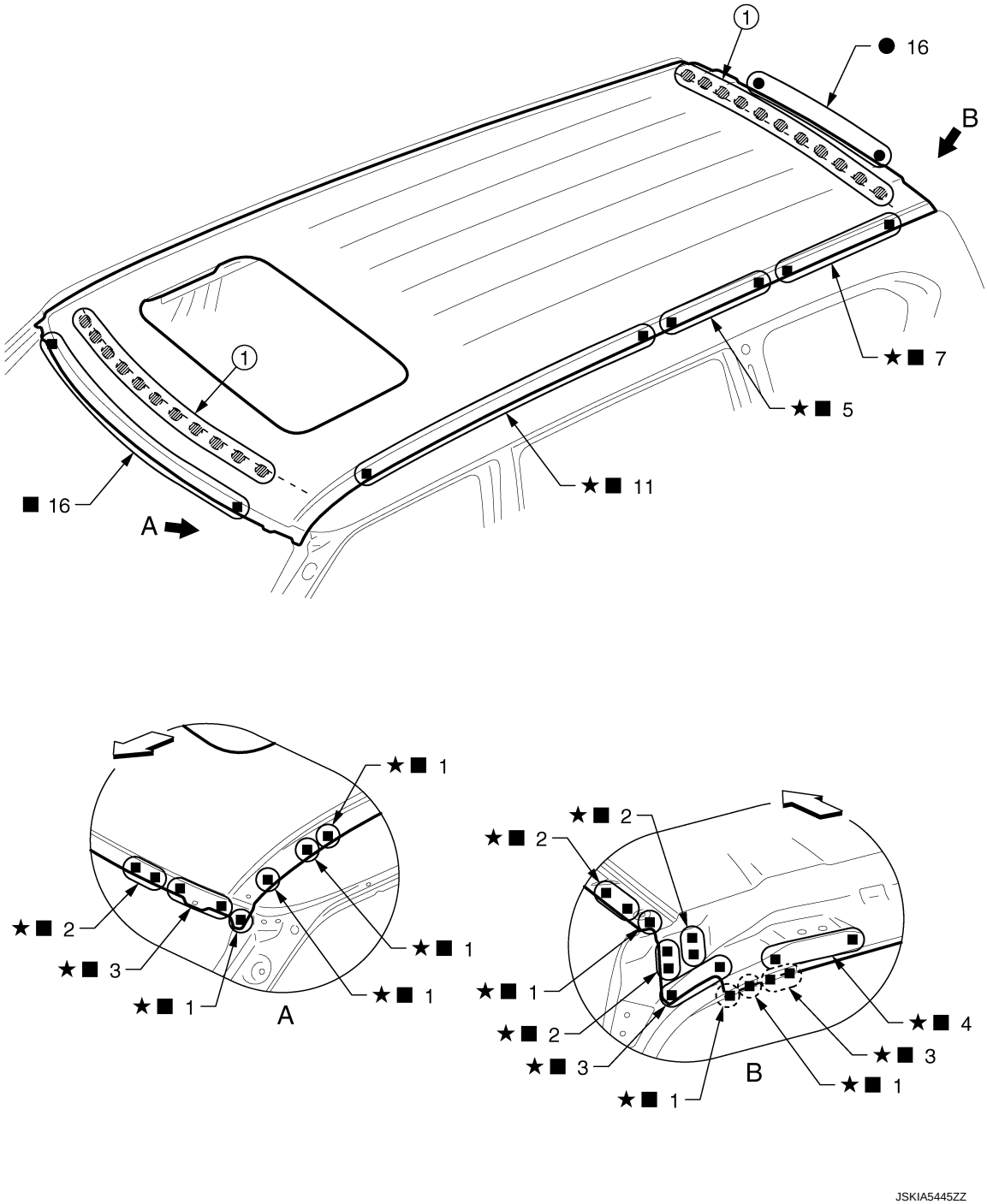
★: Welding method and the number of welding points apply to both side of the vehicle.

Replacement parts

- Rear floor rear
- Rear floor board reinforcement assembly
- Jack mounting bracket
- Trim mounting bracket assembly

Roof

INFOID:0000000011505777



JSKIA5445ZZ

1. Body sealing

⇦: Vehicle front

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

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

Replacement parts

- Roof assembly

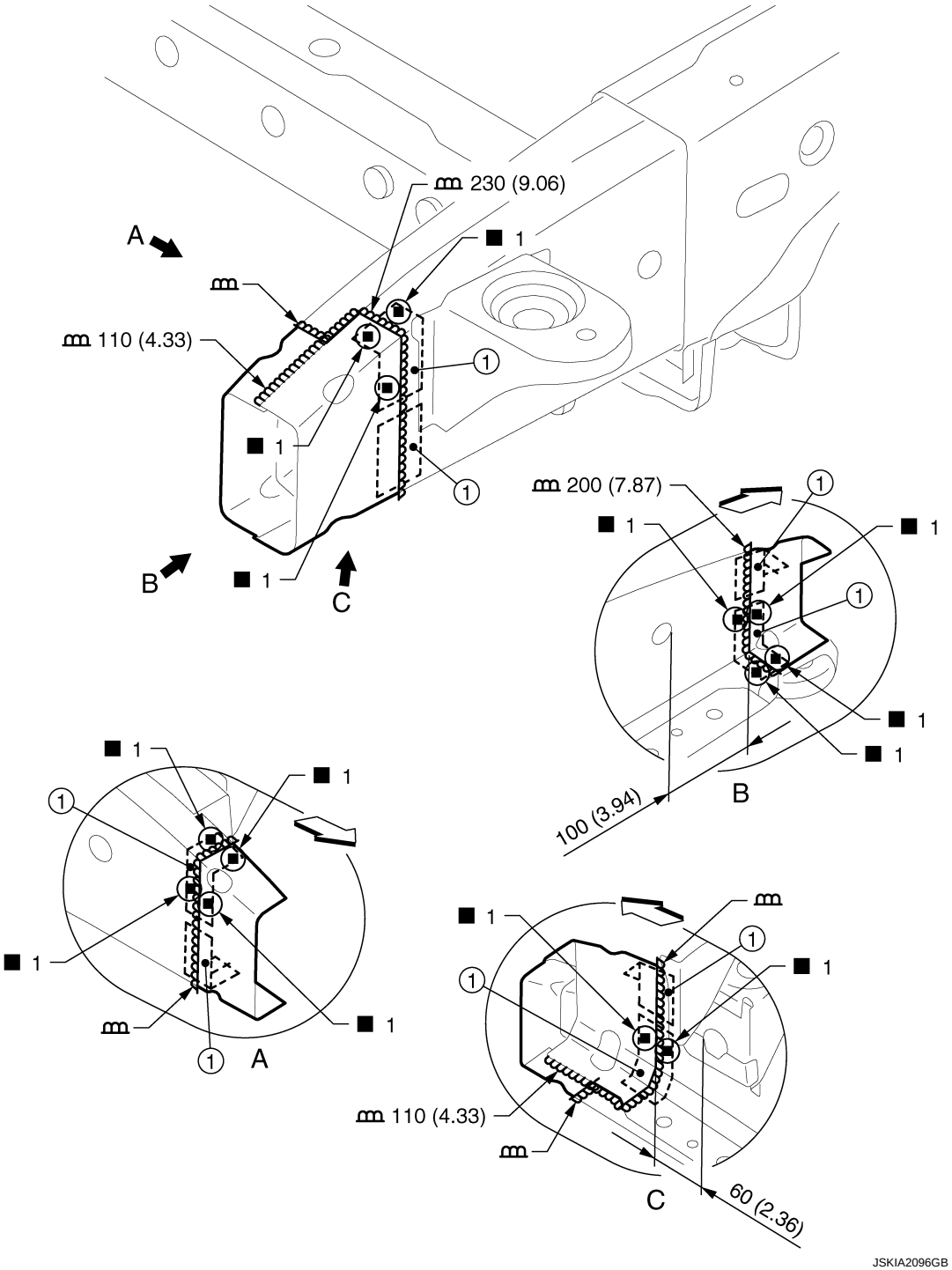
Crush Horn

INFOID:0000000010258690

Work after front bumper crossmember assembly is removed.

CAUTION:

Create the reinforcing sheet from the redundant area of service parts for butt welding area. Weld the reinforcing sheet on the back of butt welding area, and then perform butt welding.
After welding, apply anti-corrosive wax on the reinforcing sheet-welded area.



JSKIA2096GB

1. Reinforcing sheet

Unit: mm (in)

⇦: Vehicle front

Replacement parts

- Front side member assembly (LH)

View A and B: Before installing outer front side member

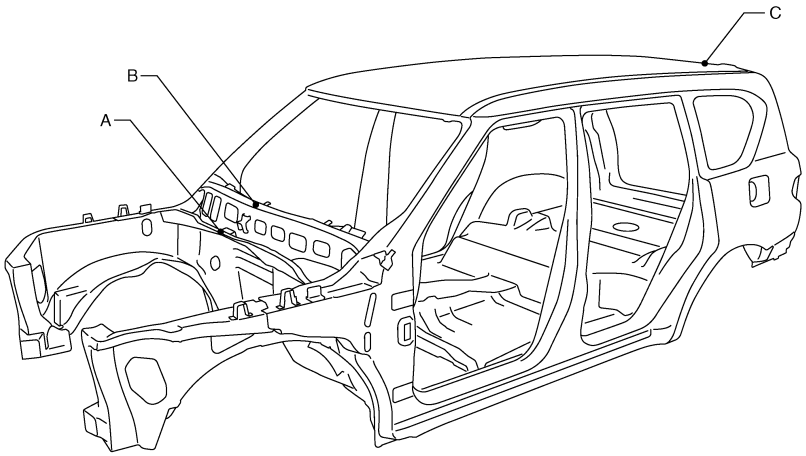
SERVICE DATA AND SPECIFICATIONS (SDS)

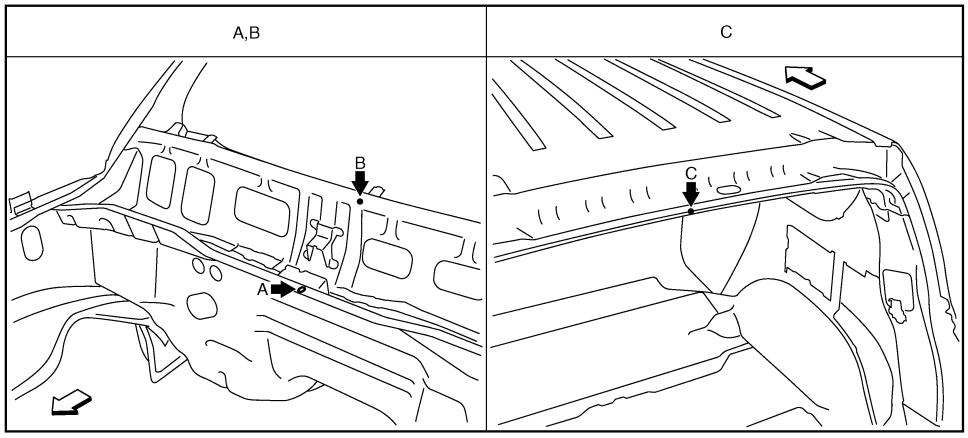
BODY ALIGNMENT

Body Center Marks

INFOID:0000000010258691

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.





JSKIA1895ZZ

⇦: Vehicle front

Unit: mm (in)

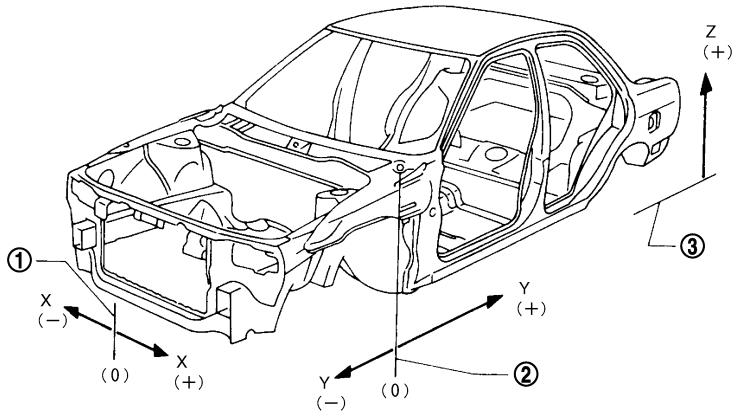
Points	Portion	Marks
A	Upper dash	Hole 7×12 (0.28×0.47)
B	Cowl top	Embossment
C	Rear roof	Indent

Description

INFOID:0000000010258692

- 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 [300 mm (11.81 in) below datum line (″0Z″ at design plan)]



JSKIA0073GB

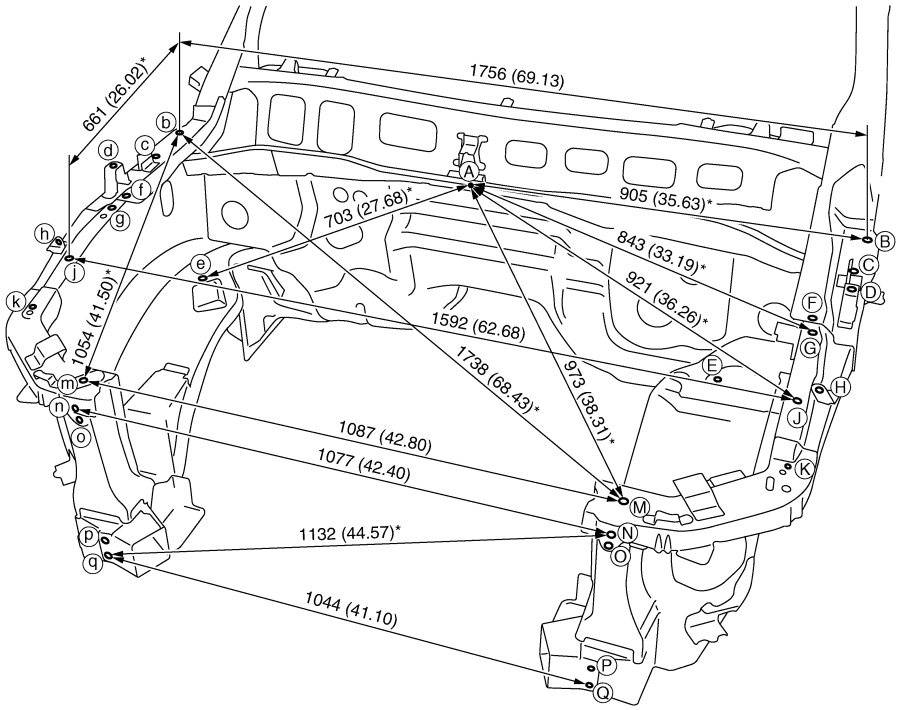
① Vehicle center ② Front axle center ③ Imaginary base line

Engine Compartment

INFOID:0000000010258693

Measurement

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



JSKIA1946GB

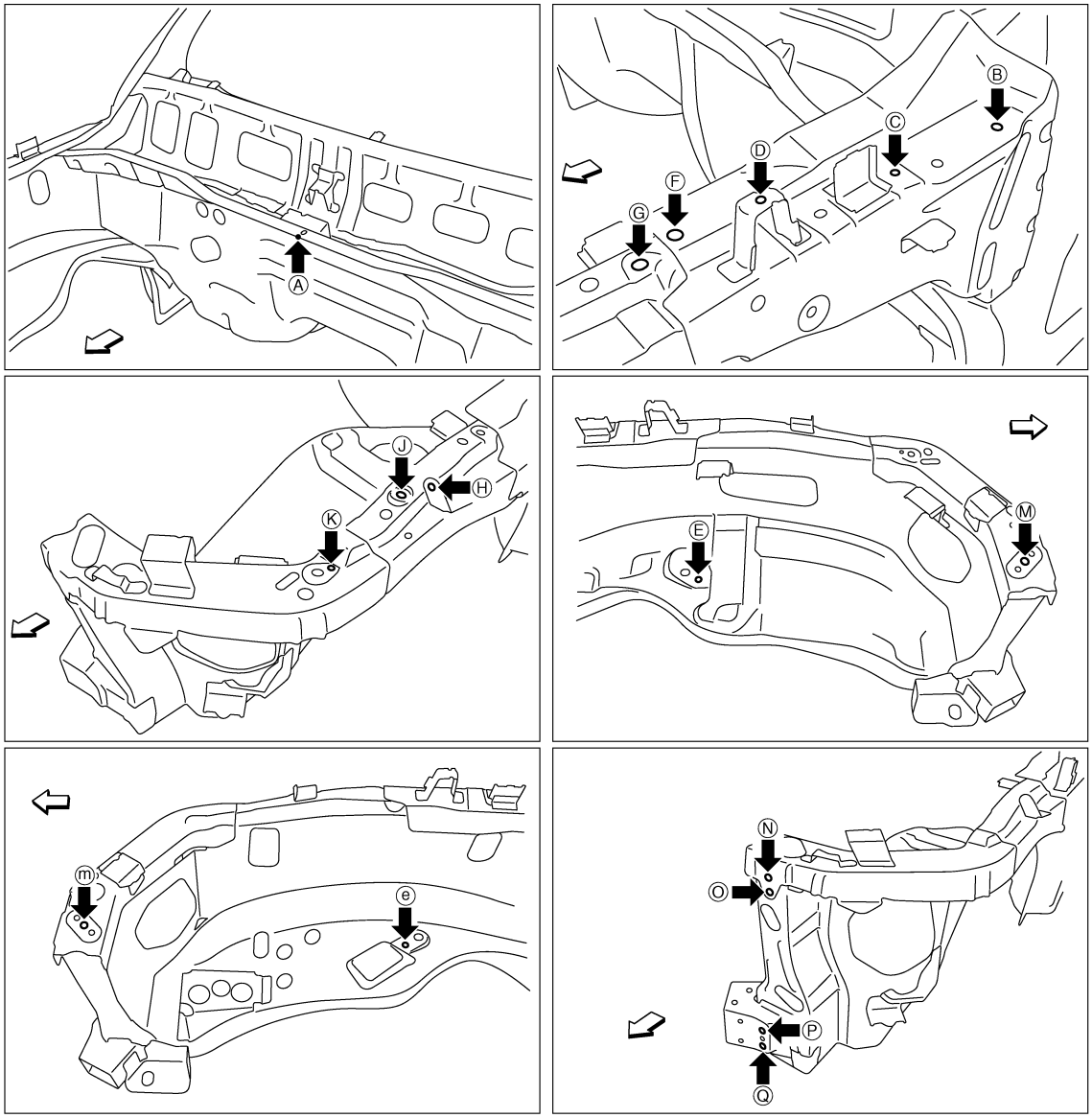
Unit: mm (in)

«The others»

Unit: mm (in)

Point	Dimension	Memo	Point	Dimension	Memo	Point	Dimension	Memo	Point	Dimension	Memo
A - C	865 (34.06)*		C - M	897 (35.31)*		F - m	1467 (57.76)*		N - o	1078 (42.44)*	
A - D	871 (34.29)*		C - m	1635 (64.37)*		G - g	1608 (63.31)		N - p	1117 (43.98)*	
A - F	821 (32.32)*		D - d	1719 (67.68)		G - j	1614 (63.54)*		N - Q	397 (15.63)*	
A - H	938 (36.93)*		E - M	625 (24.61)*		G - M	613 (24.13)*		O - o	1077 (42.40)	
A - K	1013 (39.88)*		E - m	1320 (51.97)*		G - m	1457 (57.36)*		O - P	322 (12.68)*	
B - G	453 (17.83)*		F - f	1588 (62.52)		H - h	1657 (65.24)		O - p	1108 (43.62)*	
B - g	1740 (68.50)*		F - J	257 (10.12)*		J - M	427 (16.81)*		O - q	1123 (44.21)*	
B - j	1798 (70.79)*		F - j	1611 (63.43)*		J - m	1383 (54.45)*		P - p	1044 (41.10)	
C - c	1720 (67.72)		F - M	652 (25.67)*		K - k	1600 (62.99)		P - q	1045 (41.14)*	

Measurement Points



JSKIA1947ZZ

⇦: Vehicle front

Unit: mm (in)

Point	Material	Point	Material
A	Upper dash flange end of center positioning mark	E, e	Lower hoodledge hole center ϕ8 (0.31)
B, b	Hood hinge installing hole center ϕ11 (0.43)	G, g, J, j	Hoodledge connector bracket hole center G, g: 14×12 (0.55×0.47) J, j: ϕ12 (0.47)
C, c, F, f	Hoodledge reinforcement hole center C, c: ϕ8 (0.31) F, f: ϕ12 (0.47)	K, k, M, m, N, n, O, o	Upper radiator core support hole center K, k: ϕ8 (0.31) M, m: ϕ12 (0.47) N, n, O, o: ϕ11 (0.43)
D, d, H, h	Front fender installing hole center ϕ7 (0.28)	P, p, Q, q	Lower outer radiator core connector hole center ϕ7 (0.28)

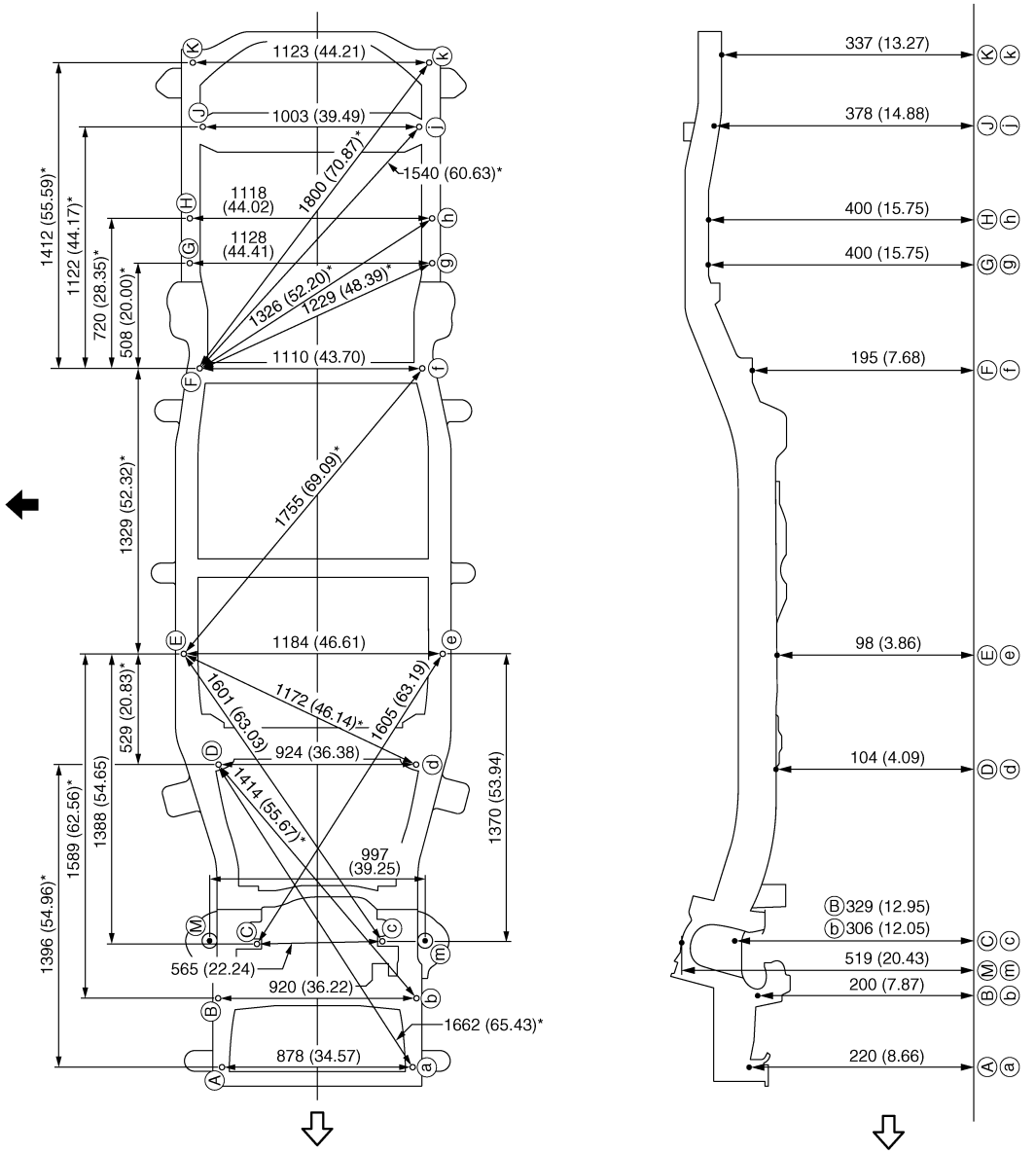
Underbody

INFOID:0000000010258694

Measurement

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

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



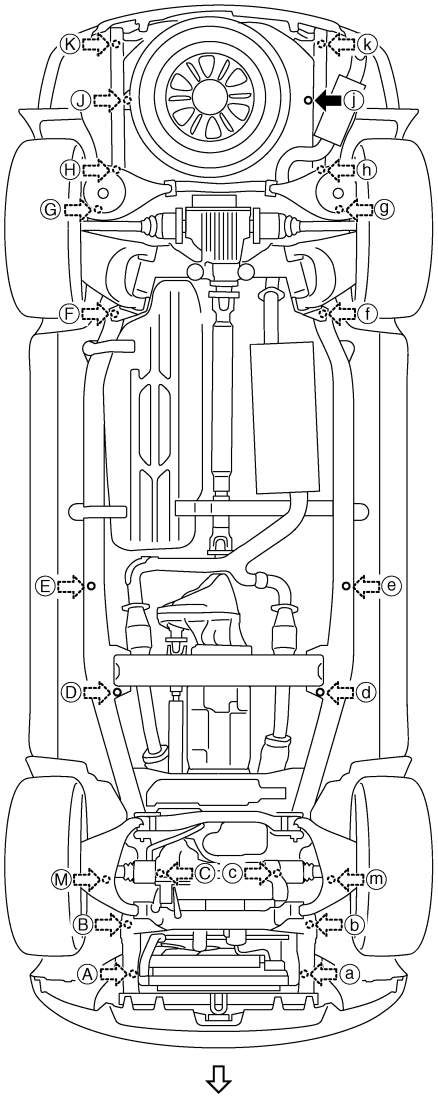
JSKIA1948GB

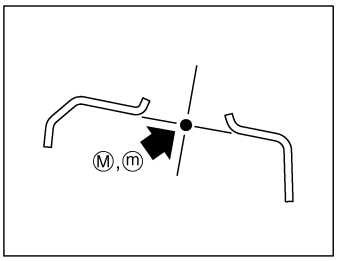
Unit: mm (in)

⇦: Vehicle front

⬅: Vehicle left side

Measurement Points





JSKIA1949ZZ

⇦: Vehicle front

Unit: mm (in)

Points	Coordinates			Remarks	Points	Coordinates			Remarks
	X	Y	Z			X	Y	Z	
A, a	±439.0 (±17.283)	–583.9 (–22.988)	220.3 (8.673)	Hole ϕ16 (0.63)	F, f	±555.0 (±21.850)	2645.0 (104.134)	195.0 (7.677)	Hole ϕ19.5 (0.768)
B, b	±460.0 (±18.110)	–260.0 (–10.236)	199.9 (7.870)	Hole ϕ12 (0.47)	G, g	±564.0 (±22.205)	3110.0 (122.441)	400.0 (15.748)	Hole ϕ16 (0.63)
C	274.6 (10.811)	–11.1 (–0.437)	329.2 (12.961)	Hole ϕ19 (0.75)	H, h	±559.0 (±22.008)	3335.0 (131.299)	400.0 (15.748)	Hole ϕ16 (0.63)

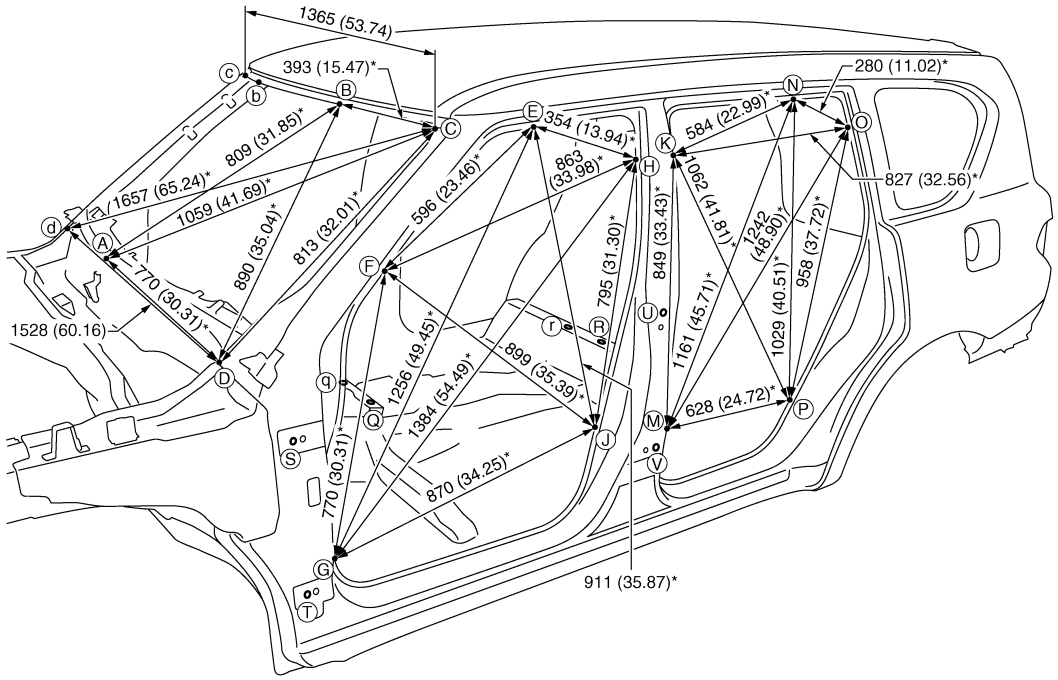
Points	Coordinates			Remarks	Points	Coordinates			Remarks
	X	Y	Z			X	Y	Z	
c	−289.6 (−11.402)	0.2 (0.008)	305.8 (12.039)	Hole ϕ19 (0.75)	J, j	±501.7 (±19.752)	3750.7 (147.665)	378.4 (14.898)	Hole ϕ8 (0.31)
D, d	±461.8 (±18.181)	807.5 (31.791)	104.1 (4.098)	Hole ϕ10 (0.39)	K, k	±561.6 (±22.110)	4050.0 (159.449)	337.0 (13.268)	Hole ϕ15 (0.59)
E, e	±592.0 (±23.307)	1320.0 (51.968)	98.3 (3.870)	Hole 20×8 (0.79×0.31)	M, m	±498.4 (±19.622)	-29.6 (-1.165)	519.2 (20.441)	Hole ϕ70 (2.76)

Passenger Compartment

INFOID:0000000010258695

MEASUREMENT

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



JSKIA1900GB

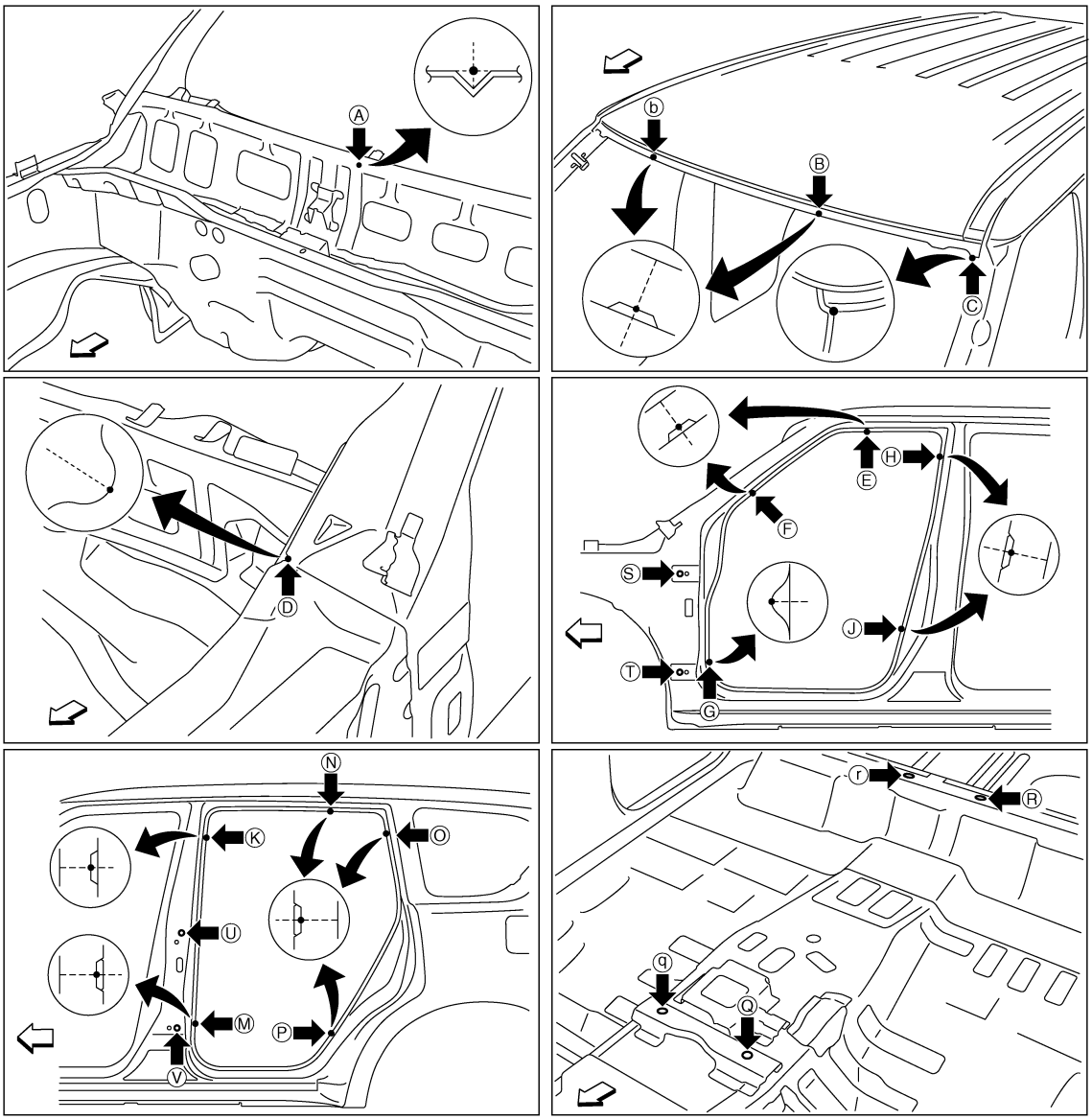
Unit: mm (in)

«The others»

Unit: mm (in)

Point	Dimension	Memo	Point	Dimension	Memo	Point	Dimension	Memo	Point	Dimension	Memo
E - e	1442 (56.77)		H - h	1528 (60.16)*		N - n	1416 (55.75)		R - M	820 (32.28)*	
E - f	1638 (64.49)*		H - j	1776 (69.92)*		N - o	1475 (58.07)*		R - N	1182 (46.54)*	
E - g	1987 (78.23)*		J - j	1651 (65.00)		N - p	1839 (72.40)*		R - O	1198 (47.17)*	
E - h	1526 (60.08)*		K - k	1527 (60.12)		O - o	1480 (58.27)		R - P	760 (29.92)*	
E - j	1792 (70.55)*		K - m	1799 (70.83)*		O - p	1829 (72.01)*		S - s	1783 (70.20)	
F - f	1615 (63.58)		K - n	1582 (62.28)*		P - p	1641 (64.61)		S - U	1183 (46.57)*	
F - g	1802 (70.94)*		K - o	1716 (67.56)*		Q - E	1178 (46.38)*		S - V	1195 (47.05)*	
F - h	1792 (70.55)*		K - p	1906 (75.04)*		Q - F	1031 (40.59)*		T - t	1813 (71.38)	
F - j	1864 (73.39)*		M - m	1648 (64.88)		Q - G	876 (34.49)*		T - U	1293 (50.91)*	
G - g	1644 (64.72)		M - n	1919 (75.55)*		Q - H	1217 (47.91)*		T - V	1158 (45.59)*	
G - h	2104 (82.83)*		M - o	1995 (78.54)*		Q - J	823 (32.40)*		U - u	1769 (69.65)	
G - j	1863 (73.35)*		M - p	1760 (69.29)*		R - K	1133 (44.61)*		V - v	1805 (71.06)	

MEASUREMENT POINTS



JSKIA1901ZZ

⇦: Vehicle front

Unit: mm (in)

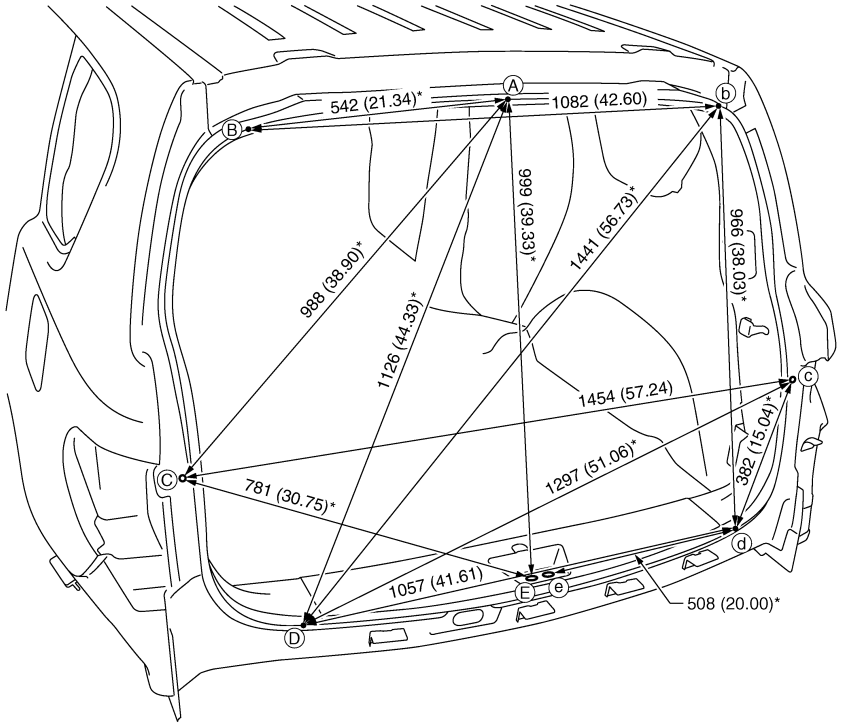
Point	Material	Point	Material
A	Cowl top positioning mark of center positioning mark	H, h, J, j, K, k, M, m	Center pillar indent
B, b	Roof indent	O, o, P, p	Rear fender indent
C, c	Front pillar joggle	Q, q	Parking brake bracket hole center ϕ13 (0.51)
D, d, E, e, N, n	Outer side body indent	R, r	2nd seat mounting front crossmember hole center ϕ7 (0.28)
F, f, G, g	Front pillar indent	S, s, T, t, U, u, V, v	Door hinge installing hole center S, s, U, u: ϕ9 (0.35) T, t, V, v: ϕ12 (0.47)

Rear Body

INFOID:0000000010258696

MEASUREMENT

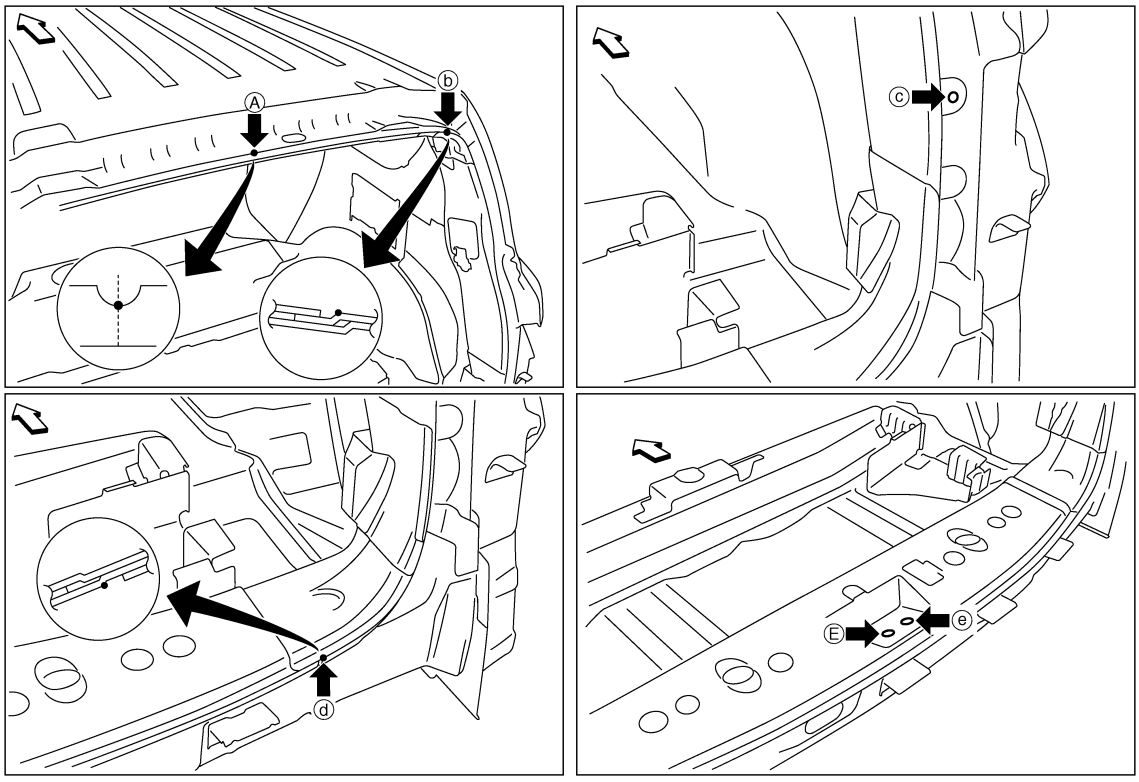
Dimensions marked with "*" indicate symmetrically identical dimensions on both the right and left hand of the vehicle.



JSKIA1902GB

Unit: mm (in)

MEASUREMENT POINTS



JSKIA1903ZZ

⇦: Vehicle front

Unit: mm (in)

Point	Material	Point	Material
A	Roof indent of center positioning mark	D, d	Rear center crossmember joggle
B, b	Upper back pillar main joggle	E, e	Rear end crossmember hole center ϕ13 (0.51)
C, c	Upper back pillar main hole center ϕ7 (0.28)		

LOCATION OF PLASTIC PARTS

Precautions for Plastics

INFOID:0000000010258697

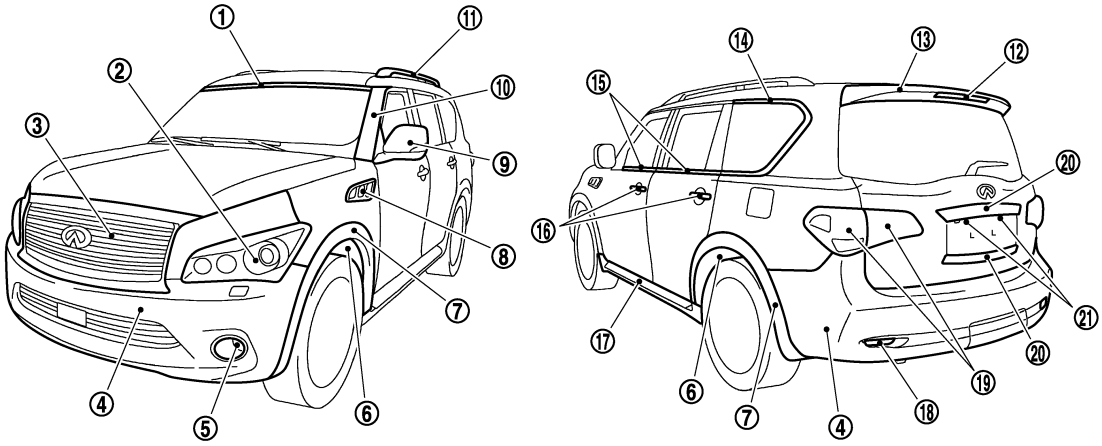
Abbre-viation	Material name	Heat resisting temperature °C (°F)	Resistance to gasoline and solvents	Other cautions
PE	Polyethylene	60 (140)	Gasoline and most solvents are harmless if applied for a very short time (wipe out quickly).	Flammable
ABS	Acrylonitrile Butadiene Styrene	80 (176)	Avoid gasoline and solvents.	—
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.**

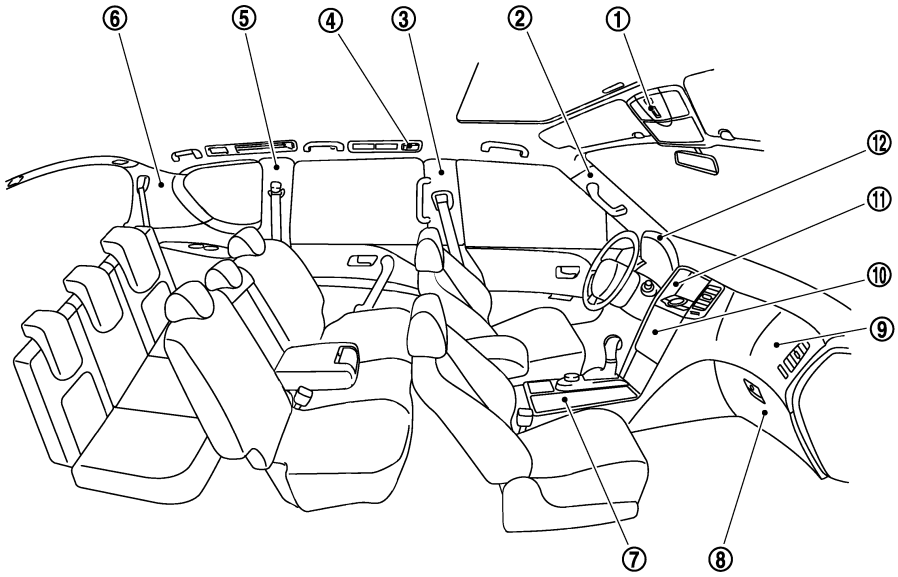
Location of Plastic Parts

INFOID:0000000010258698



JSKIA1953ZZ

Component			Material	Component			Material
1	Upper windshield molding		PVC + Stainless	12	High mount stop lamp	Lens	PMMA
2	Front combination lamp	Lens	PC			Housing	ABS
		Housing	PP	13	Back door air spoiler		ABS
3	Front grille		ABS	14	Side window glass molding		Stainless
4	Bumper fascia		PP + EPM	15	Door outside molding		PVC + Stainless
5	Front fog lamp	Lens	Glass	16	Door outside handle		PC + ABS
		Housing	PBT + ASA + Glass fiber	17	Side step	Side step re-inforcement	Aluminum
6	Fender protector	Front	PP			Kicking plate	PP
		Rear	PP	18	Reflector		ABS
7	Over fender	Front	PP + EPDM	19	Rear combination lamp (Rear fender)	Lens	PMMA
		Rear	PP + EPDM			Housing	ABS
8	Front fender duct		ABS		Rear combination lamp (Back door)	Lens	PMMA
9	Door outside mirror	Housing	ABS			Housing	PC + ASA
		Cover	ABS	20	Back door finisher	Upper	ABS
10	Front pillar finisher		PC + PET			Lower	ABS
11	Roof rack	Front cover	ABS	21	License plate lamp	Lens	PC
		Center cover	ABS			Housing	PC
		Rear cover	PC + PET				
		Pipe	Aluminum				



JSKIA1905ZZ

Component			Material	Component			Material
1	Map lamp	Lens	PC	7	Center console		PP
		Housing	PP	8	Glove box		PP
2	Front pillar garnish		PP	9	Instrument panel	Core	PP
3	Center pillar garnish		PP			Skin	TPU
4	Personal lamp	Lens	PC	10	Cluster lid C		PC + ABS
		Housing	PP	11	Cluster lid D		PC + ABS
5	Rear pillar finisher		PP	12	Cluster lid A		ABS
6	Back pillar garnish		PP				

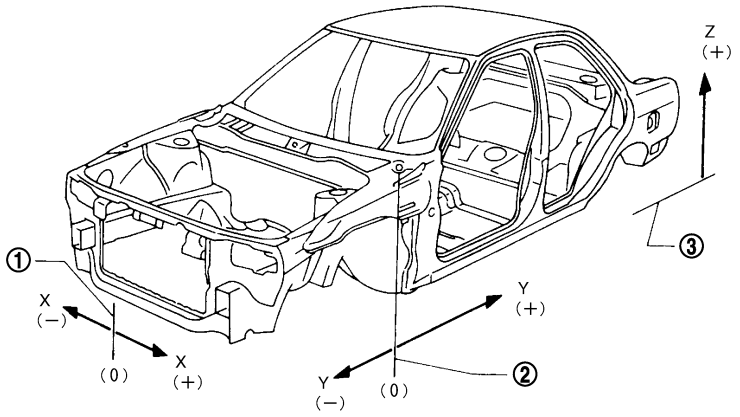
SERVICE DATA AND SPECIFICATIONS (SDS)

BODY ALIGNMENT

Description

INFOID:0000000010258699

- 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 [300 mm (11.81 in) below datum line (″0Z″ at design plan)]



JSKIA0073GB

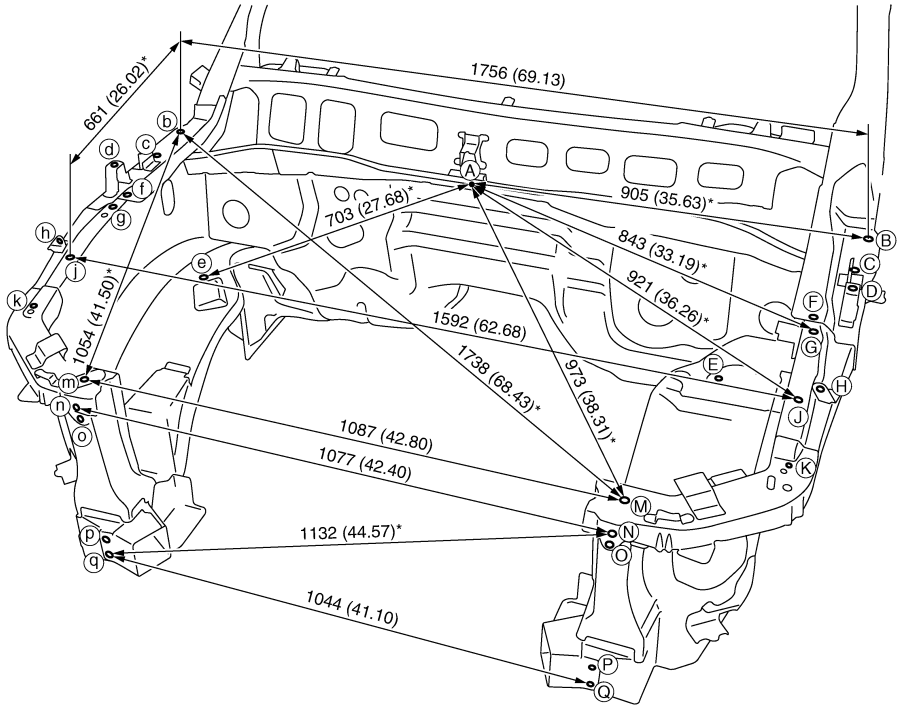
① Vehicle center ② Front axle center ③ Imaginary base line

Engine Compartment

INFOID:0000000010258700

Measurement

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



JSKIA1946GB

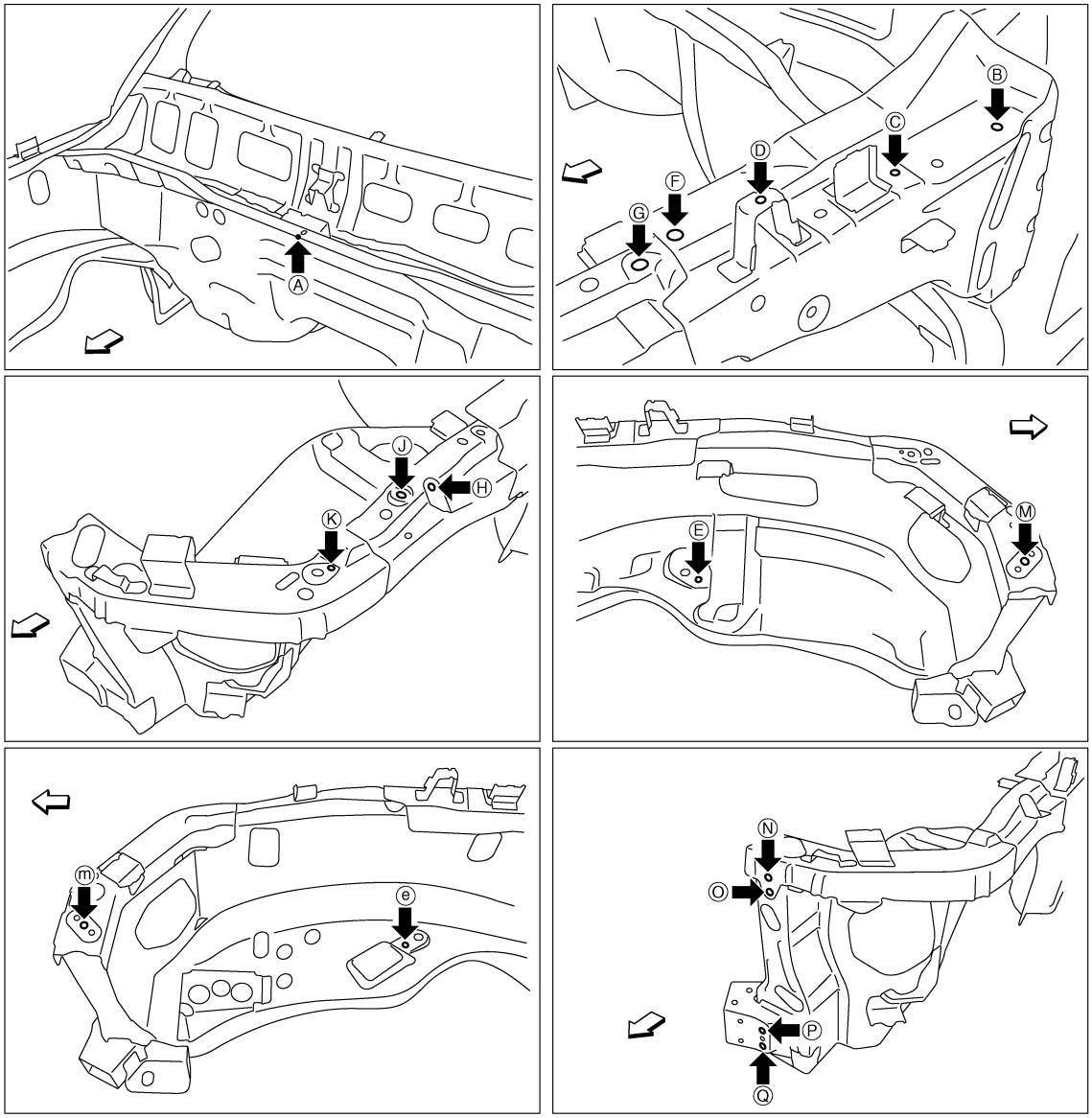
Unit: mm (in)

«The others»

Unit: mm (in)

Point	Dimension	Memo	Point	Dimension	Memo	Point	Dimension	Memo	Point	Dimension	Memo
A - C	865 (34.06)*		C - M	897 (35.31)*		F - m	1467 (57.76)*		N - o	1078 (42.44)*	
A - D	871 (34.29)*		C - m	1635 (64.37)*		G - g	1608 (63.31)		N - p	1117 (43.98)*	
A - F	821 (32.32)*		D - d	1719 (67.68)		G - j	1614 (63.54)*		N - Q	397 (15.63)*	
A - H	938 (36.93)*		E - M	625 (24.61)*		G - M	613 (24.13)*		O - o	1077 (42.40)	
A - K	1013 (39.88)*		E - m	1320 (51.97)*		G - m	1457 (57.36)*		O - P	322 (12.68)*	
B - G	453 (17.83)*		F - f	1588 (62.52)		H - h	1657 (65.24)		O - p	1108 (43.62)*	
B - g	1740 (68.50)*		F - J	257 (10.12)*		J - M	427 (16.81)*		O - q	1123 (44.21)*	
B - j	1798 (70.79)*		F - j	1611 (63.43)*		J - m	1383 (54.45)*		P - p	1044 (41.10)	
C - c	1720 (67.72)		F - M	652 (25.67)*		K - k	1600 (62.99)		P - q	1045 (41.14)*	

Measurement Points



JSKIA1947ZZ

⇦: Vehicle front

Unit: mm (in)

Point	Material	Point	Material
A	Upper dash flange end of center positioning mark	E, e	Lower hoodledge hole center ϕ8 (0.31)
B, b	Hood hinge installing hole center ϕ11 (0.43)	G, g, J, j	Hoodledge connector bracket hole center G, g: 14×12 (0.55×0.47) J, j: ϕ12 (0.47)
C, c, F, f	Hoodledge reinforcement hole center C, c: ϕ8 (0.31) F, f: ϕ12 (0.47)	K, k, M, m, N, n, O, o	Upper radiator core support hole center K, k: ϕ8 (0.31) M, m: ϕ12 (0.47) N, n, O, o: ϕ11 (0.43)
D, d, H, h	Front fender installing hole center ϕ7 (0.28)	P, p, Q, q	Lower outer radiator core connector hole center ϕ7 (0.28)

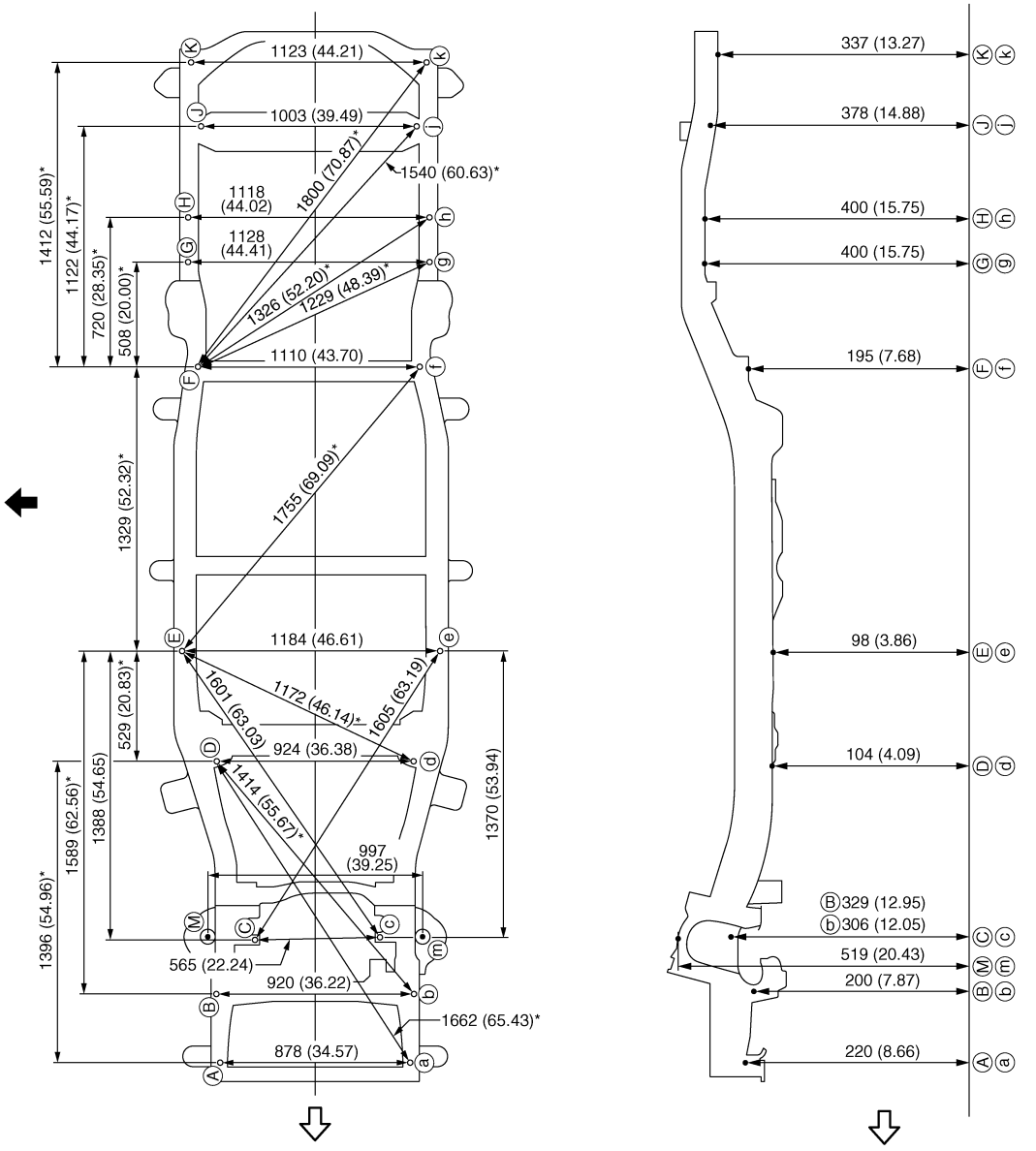
Underbody

INFOID:0000000010258701

Measurement

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

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



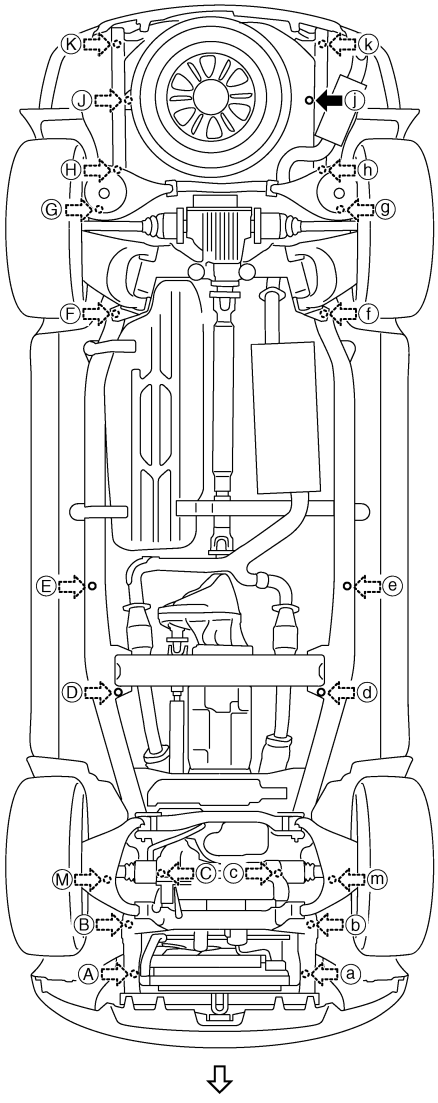
JSKIA1948GB

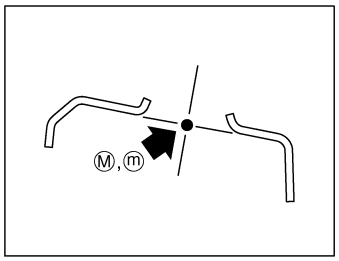
Unit: mm (in)

⇦: Vehicle front

⬅: Vehicle left side

Measurement Points





JSKIA1949ZZ

⇦: Vehicle front

Unit: mm (in)

Points	Coordinates			Remarks	Points	Coordinates			Remarks
	X	Y	Z			X	Y	Z	
A, a	±439.0 (±17.283)	–583.9 (–22.988)	220.3 (8.673)	Hole ϕ16 (0.63)	F, f	±555.0 (±21.850)	2645.0 (104.134)	195.0 (7.677)	Hole ϕ19.5 (0.768)
B, b	±460.0 (±18.110)	–260.0 (–10.236)	199.9 (7.870)	Hole ϕ12 (0.47)	G, g	±564.0 (±22.205)	3110.0 (122.441)	400.0 (15.748)	Hole ϕ16 (0.63)
C	274.6 (10.811)	–11.1 (–0.437)	329.2 (12.961)	Hole ϕ19 (0.75)	H, h	±559.0 (±22.008)	3335.0 (131.299)	400.0 (15.748)	Hole ϕ16 (0.63)

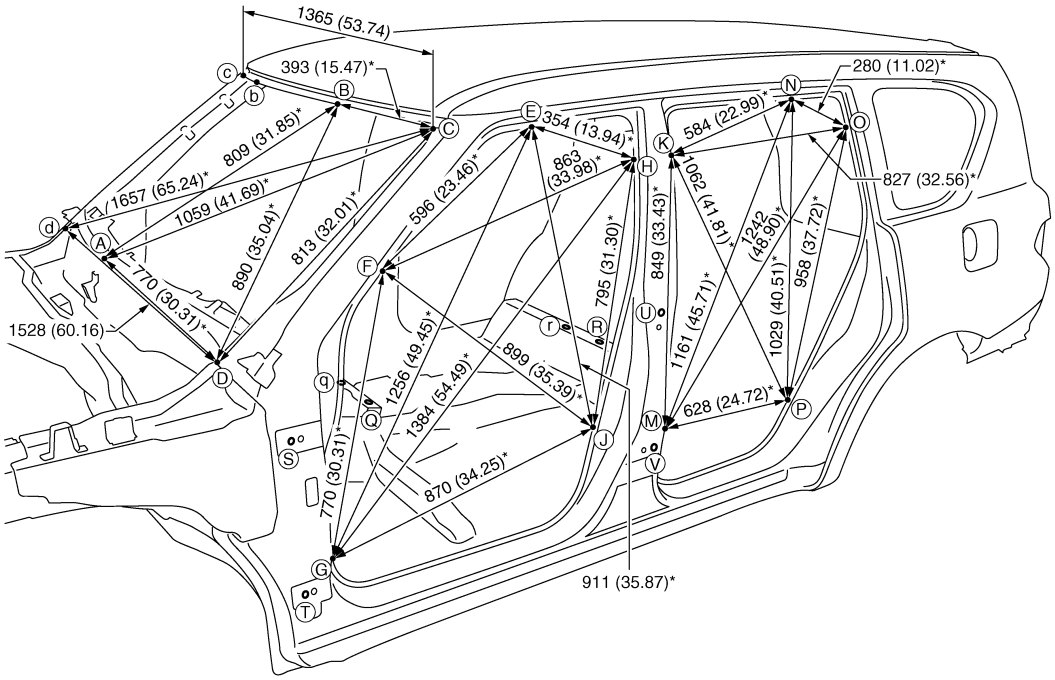
Points	Coordinates			Remarks	Points	Coordinates			Remarks
	X	Y	Z			X	Y	Z	
c	−289.6 (−11.402)	0.2 (0.008)	305.8 (12.039)	Hole ϕ19 (0.75)	J, j	±501.7 (±19.752)	3750.7 (147.665)	378.4 (14.898)	Hole ϕ8 (0.31)
D, d	±461.8 (±18.181)	807.5 (31.791)	104.1 (4.098)	Hole ϕ10 (0.39)	K, k	±561.6 (±22.110)	4050.0 (159.449)	337.0 (13.268)	Hole ϕ15 (0.59)
E, e	±592.0 (±23.307)	1320.0 (51.968)	98.3 (3.870)	Hole 20×8 (0.79×0.31)	M, m	±498.4 (±19.622)	-29.6 (-1.165)	519.2 (20.441)	Hole ϕ70 (2.76)

Passenger Compartment

INFOID:0000000010258702

MEASUREMENT

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



JSKIA1900GB

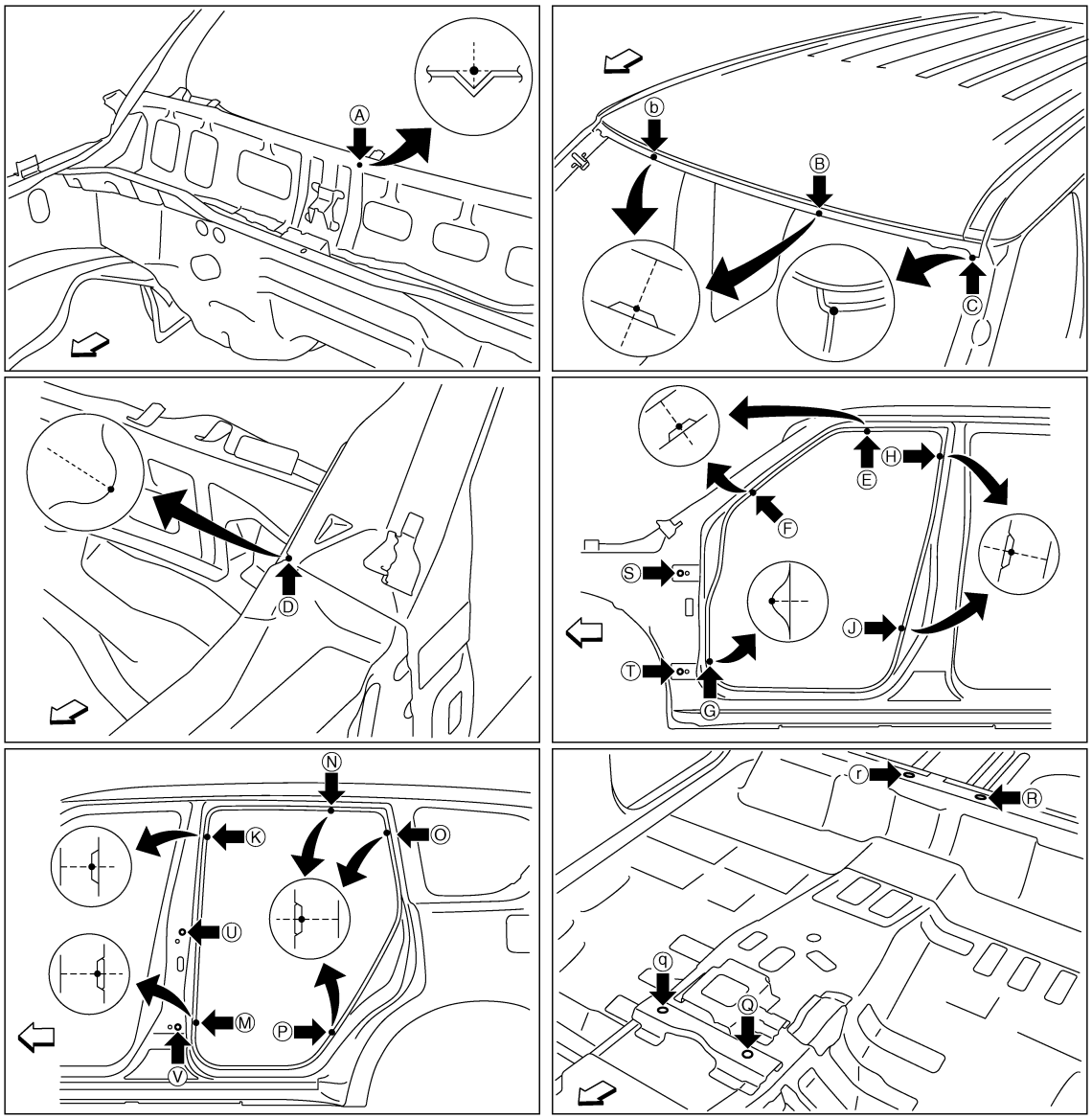
Unit: mm (in)

«The others»

Unit: mm (in)

Point	Dimension	Memo	Point	Dimension	Memo	Point	Dimension	Memo	Point	Dimension	Memo
E - e	1442 (56.77)		H - h	1528 (60.16)*		N - n	1416 (55.75)		R - M	820 (32.28)*	
E - f	1638 (64.49)*		H - j	1776 (69.92)*		N - o	1475 (58.07)*		R - N	1182 (46.54)*	
E - g	1987 (78.23)*		J - j	1651 (65.00)		N - p	1839 (72.40)*		R - O	1198 (47.17)*	
E - h	1526 (60.08)*		K - k	1527 (60.12)		O - o	1480 (58.27)		R - P	760 (29.92)*	
E - j	1792 (70.55)*		K - m	1799 (70.83)*		O - p	1829 (72.01)*		S - s	1783 (70.20)	
F - f	1615 (63.58)		K - n	1582 (62.28)*		P - p	1641 (64.61)		S - U	1183 (46.57)*	
F - g	1802 (70.94)*		K - o	1716 (67.56)*		Q - E	1178 (46.38)*		S - V	1195 (47.05)*	
F - h	1792 (70.55)*		K - p	1906 (75.04)*		Q - F	1031 (40.59)*		T - t	1813 (71.38)	
F - j	1864 (73.39)*		M - m	1648 (64.88)		Q - G	876 (34.49)*		T - U	1293 (50.91)*	
G - g	1644 (64.72)		M - n	1919 (75.55)*		Q - H	1217 (47.91)*		T - V	1158 (45.59)*	
G - h	2104 (82.83)*		M - o	1995 (78.54)*		Q - J	823 (32.40)*		U - u	1769 (69.65)	
G - j	1863 (73.35)*		M - p	1760 (69.29)*		R - K	1133 (44.61)*		V - v	1805 (71.06)	

MEASUREMENT POINTS



JSKIA1901ZZ

⇦: Vehicle front

Unit: mm (in)

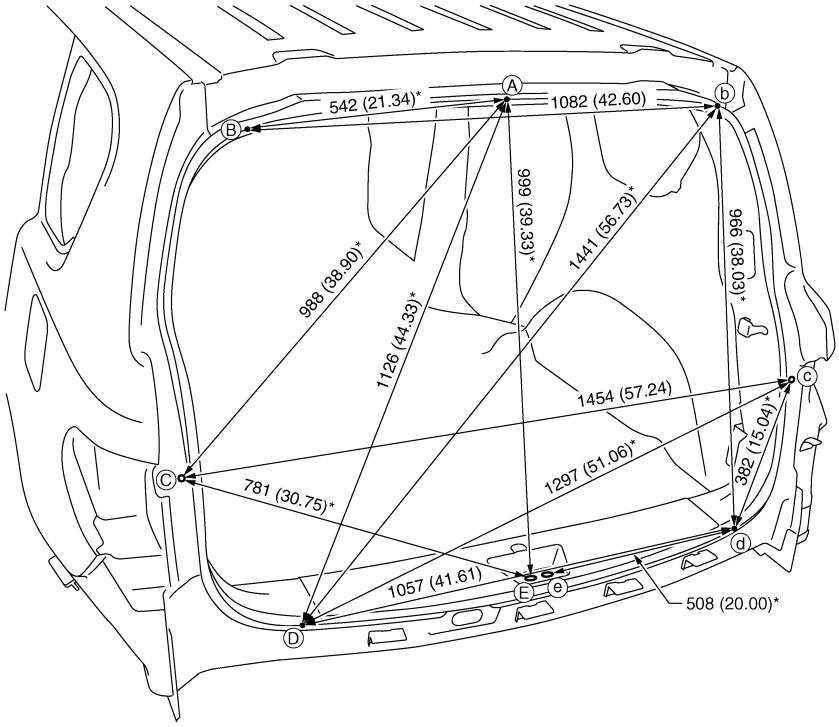
Point	Material	Point	Material
A	Cowl top positioning mark of center positioning mark	H, h, J, j, K, k, M, m	Center pillar indent
B, b	Roof indent	O, o, P, p	Rear fender indent
C, c	Front pillar joggle	Q, q	Parking brake bracket hole center ϕ13 (0.51)
D, d, E, e, N, n	Outer side body indent	R, r	2nd seat mounting front crossmember hole center ϕ7 (0.28)
F, f, G, g	Front pillar indent	S, s, T, t, U, u, V, v	Door hinge installing hole center S, s, U, u: ϕ9 (0.35) T, t, V, v: ϕ12 (0.47)

Rear Body

INFOID:0000000010258703

MEASUREMENT

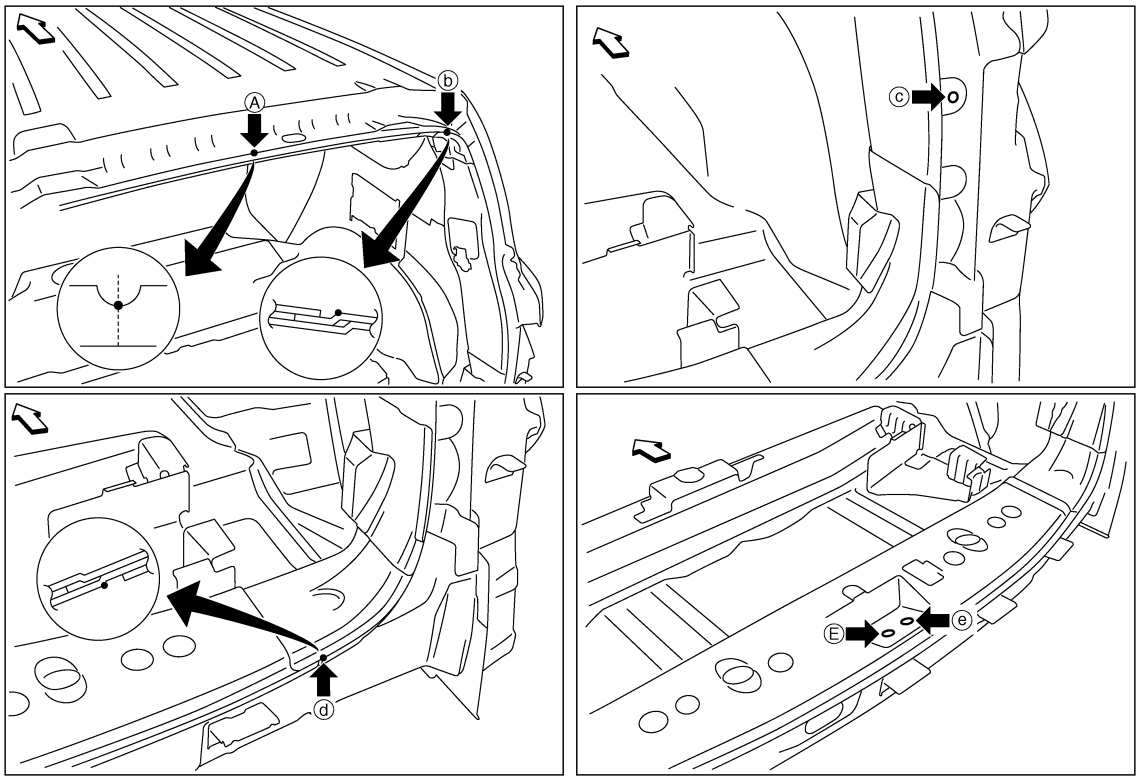
Dimensions marked with "*" indicate symmetrically identical dimensions on both the right and left hand of the vehicle.



JSKIA1902GB

Unit: mm (in)

MEASUREMENT POINTS



JSKIA1903ZZ

⇦: Vehicle front

Unit: mm (in)

Point	Material	Point	Material
A	Roof indent of center positioning mark	D, d	Rear center crossmember joggle
B, b	Upper back pillar main joggle	E, e	Rear end crossmember hole center ϕ13 (0.51)
C, c	Upper back pillar main hole center ϕ7 (0.28)		