SECTION BRM
BODY REPAIR

CONTENTS

TYPE 3

TYPE 4

HOW TO USE THIS MANUAL

APPLICATION NOTICE

Information

INFOID:0000000010837586

Check the vehicle type to use the service information in this section.

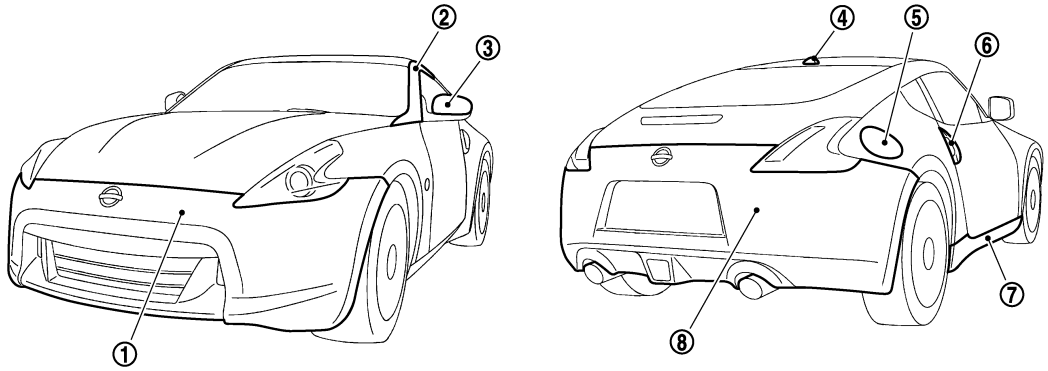
Service information	Destination
TYPE 1	COUPE (REGULAR GRADE FOR USA AND CANADA)
TYPE 2	COUPE (Nismo 370Z)
TYPE 3	ROADSTER (FOR USA AND CANADA)
TYPE 4	COUPE (FOR MEXICO)

VEHICLE INFORMATION

BODY EXTERIOR PAINT COLOR

Body Exterior Paint Color

INFOID:0000000010837587



JSKIA0899ZZ

Component			Color code	BA54	BG41	BK23	BKAD	BNAG	BNAM	BQAB	BRAA
			Description	Red	Black	Silver	Gray	Dark Red	Red	White	Dark Blue
			Paint type [note]	3S	2P	2M	2M	2P	2PM	3P	2P
			Anti scratch advanced paint	×	×	–	–	×	×	–	×
①	Front bumper fascia	Body	Body color	BA54	BG41	BK23	BKAD	BNAG	BNAM	BQAB	BRAA
		Grille	Material color	–	–	–	–	–	–	–	–
②	Front pillar finisher		Body color	BA54	BG41	BK23	BKAD	BNAG	BNAM	BQAB	BRAA
③	Door outside mirror	Cover	Body color	BA54	BG41	BK23	BKAD	BNAG	BNAM	BQAB	BRAA
④	Antenna base cover		Body color	BA54	BG41	BK23	BKAD	BNAG	BNAM	BQAB	BRAA
⑤	Fuel filler lid		Body color	BA54	BG41	BK23	BKAD	BNAG	BNAM	BQAB	BRAA
⑥	Door outside handle and escutcheon		Velour chromium plate	Cr2p	Cr2p	Cr2p	Cr2p	Cr2p	Cr2p	Cr2p	Cr2p
⑦	Center mudguard		Body color	BA54	BG41	BK23	BKAD	BNAG	BNAM	BQAB	BRAA
⑧	Rear bumper fascia		Body color	BA54	BG41	BK23	BKAD	BNAG	BNAM	BQAB	BRAA

NOTE:

- 2M: 2-Coat metallic
- 2P: 2-Coat pearl
- 3P: 3-Coat pearl
- 3S: 3-Coat solid
- 2PM: 2-Coat pearl metallic

PRECAUTION

REPAIRING HIGH STRENGTH STEEL

High Strength Steel (HSS)

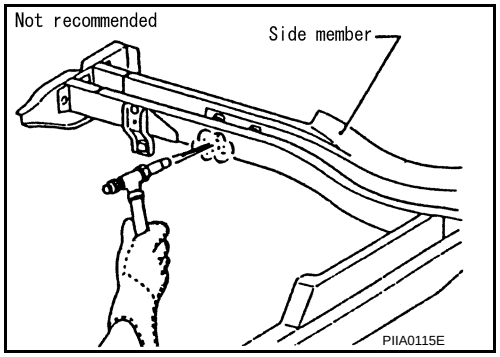
INFOID:0000000010837588

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
370 - 590 MPa	• Front side member assembly • Front side member closing plate assembly • Front side member outrigger assembly • Upper front hoodledge • Hoodledge reinforcement • Front strut housing • Lower dash • Lower dash crossmember assembly • Front roof rail • Upper front pillar reinforcement • Center front floor • Front floor (Component part) • Outer sill reinforcement • Inner rear pillar (Component part) • Outer rear wheelhouse extension • Lock pillar reinforcement assembly • Rear seat crossmember • Rear seat crossmember reinforcement assembly • Rear side member assembly • Rear pillar reinforcement • Other reinforcements
780 - 1350 MPa	• Upper front pillar reinforcement (Component part) • Stiffener front side member (Front floor component part) • Front side member rear extension • Inner sill • Inner lock pillar assembly (Component part) • Inner rear pillar (Component part)

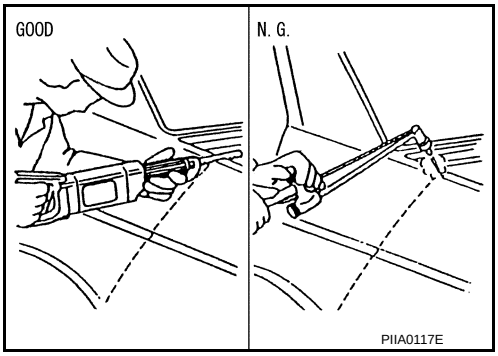
Read the following precautions when repairing HSS:

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.)

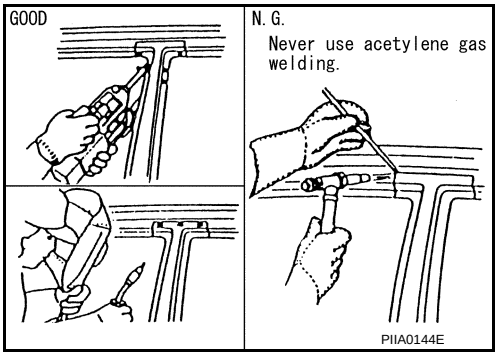


   - When straightening body panels, use caution in pulling any HSS panel. Because HSS is very strong, pulling may cause deformation in adjacent sections of the body. In this case, increase the number of measuring points, and carefully pull the HSS panel.

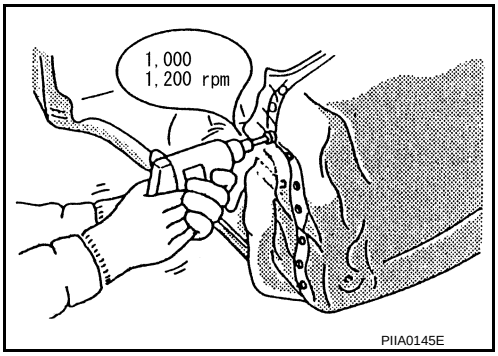
- When cutting HSS panels, avoid gas (torch) cutting if possible. Instead, use a saw to avoid weakening surrounding areas due to heat. If gas (torch) cutting is unavoidable, allow a minimum margin of 50 mm (1.97 in).



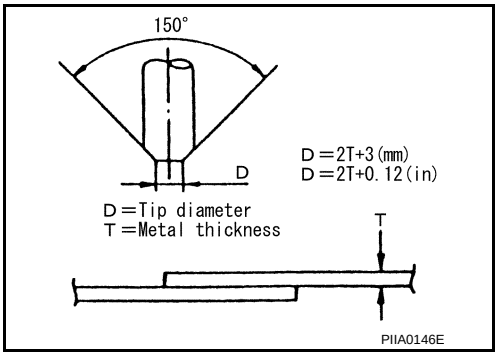
- When welding HSS panels, use spot welding whenever possible in order to minimize weakening surrounding areas due to heat.
  If spot welding is impossible, use MIG. welding. Do not use gas (torch) for welding because it is inferior in welding strength.



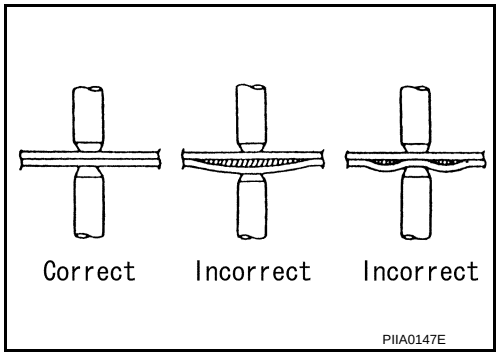
- Spot welding on HSS panels is harder than that of an ordinary steel panel.
  Therefore, when cutting spot welds on a HSS panel, use a low speed high torque drill (1,000 to 1,200 rpm) to increase drill bit durability and facilitate the operation.



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.



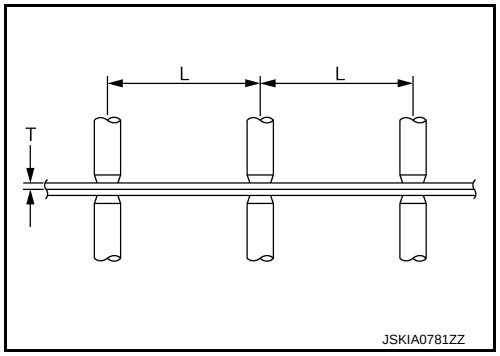
- The panel surfaces must fit flush to each other, leaving no gaps.



- 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:0000000010837589

PROHIBITION OF CUT AND CONNECTION

Never cut and Joint the stiffener front side member (front floor inside frame parts) because its material is high strength steel plate (ultra high strength steel plate).
The front floor assembly must be replaced if this part is damaged.

PREPARATION

REPAIRING MATERIAL

Foam Repair

INFOID:0000000010837590

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

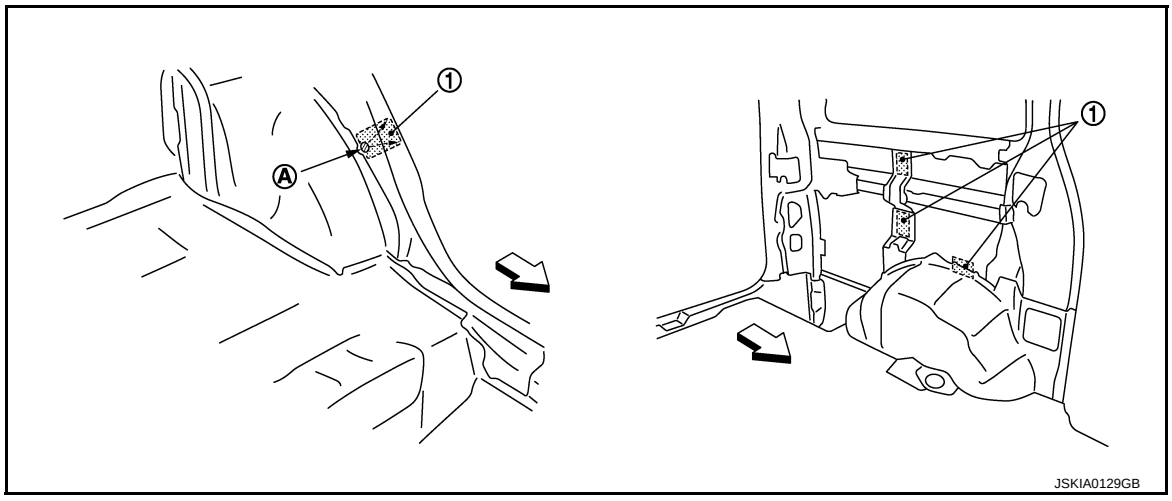
1. Fill procedures after installation of service part.

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

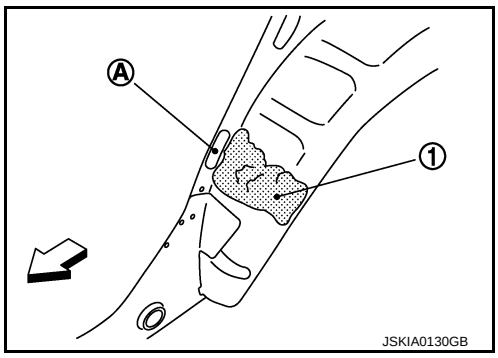
⇦: Vehicle front

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

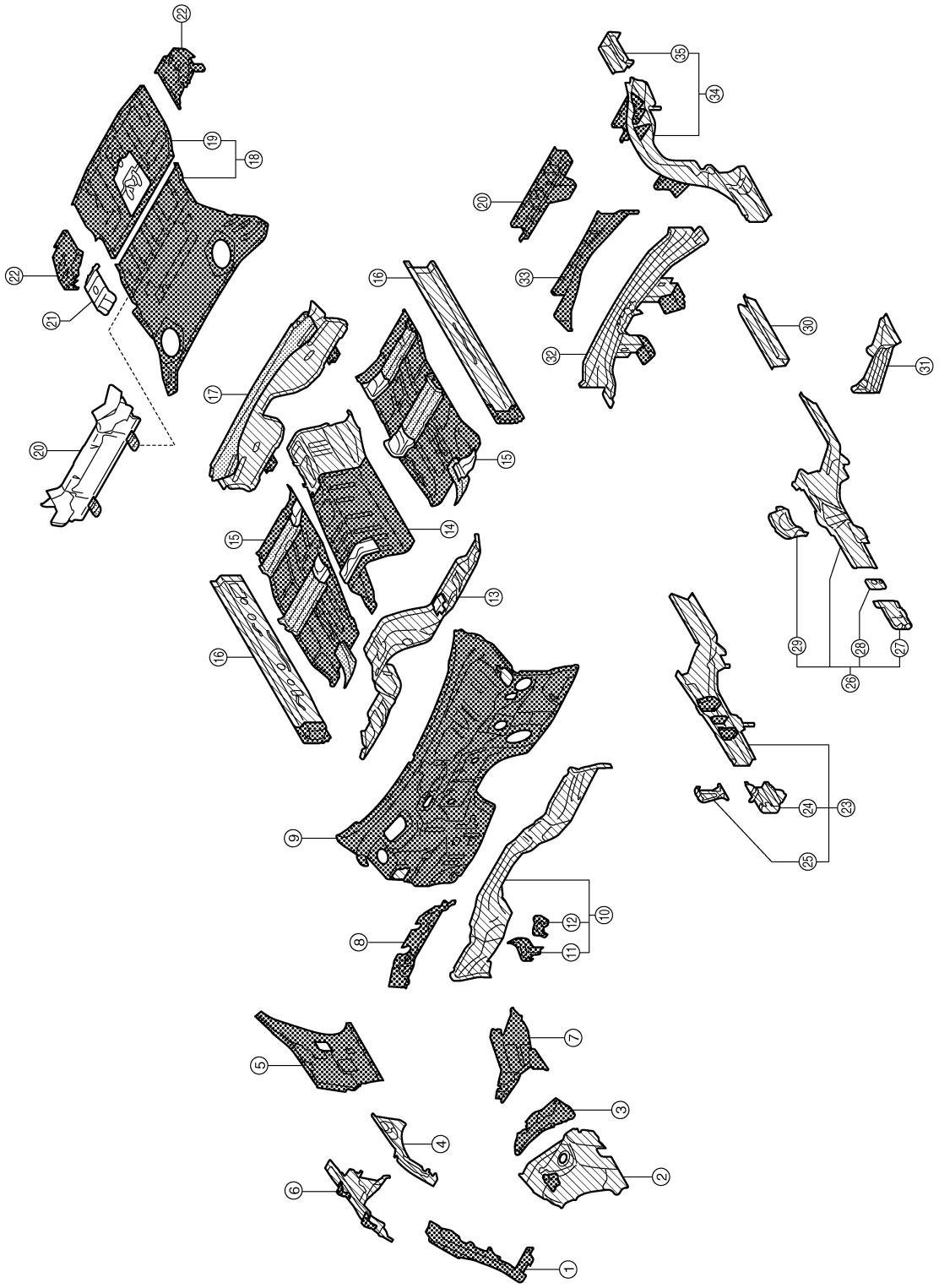
NOTE:
Fill enough to close gap with service part while avoiding flange area.

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

BODY COMPONENT PARTS

Underbody Component Parts

INFOID:0000000010837591



1. Side radiator core support (RH & LH)
2. Front strut housing (RH & LH)
3. Lower rear hoodledge (RH & LH)
4. Upper front hoodledge (RH & LH)
5. Upper rear hoodledge (RH & LH)
6. Hoodledge reinforcement (RH & LH)
7. Upper side cowl top (RH & LH)
8. Front cowl top
9. Upper dash

10. Lower dash crossmember assembly	11. Lower outer battery support bracket	12. Lower battery support bracket
13. Lower dash	14. Center front floor	15. Front floor (RH & LH)
16. Inner sill (RH & LH)	17. Rear seat crossmember reinforcement assembly	18. Rear floor front
19. Rear floor rear	20. Rear crossmember center assembly	21. Sensor bracket
22. Rear floor side (RH & LH)	23. Front side member assembly (RH & LH)	24. Front side member front extension (RH & LH)
25. Front side member connector assembly (RH & LH)	26. Front side member closing plate assembly (RH & LH)	27. Front side member front closing plate (RH & LH)
28. Front side rear closing reinforcement (RH & LH)	29. Front side member center closing plate (RH & LH)	30. Front side member rear extension (RH & LH)
31. Front side member outrigger assembly (RH & LH)	32. Rear seat crossmember	33. Rear crossmember
34. Rear side member assembly (RH & LH)	35. Rear side member extension (RH & LH)	

: Both sided anti-corrosive precoated steel sections

: High strength steel (HSS) sections

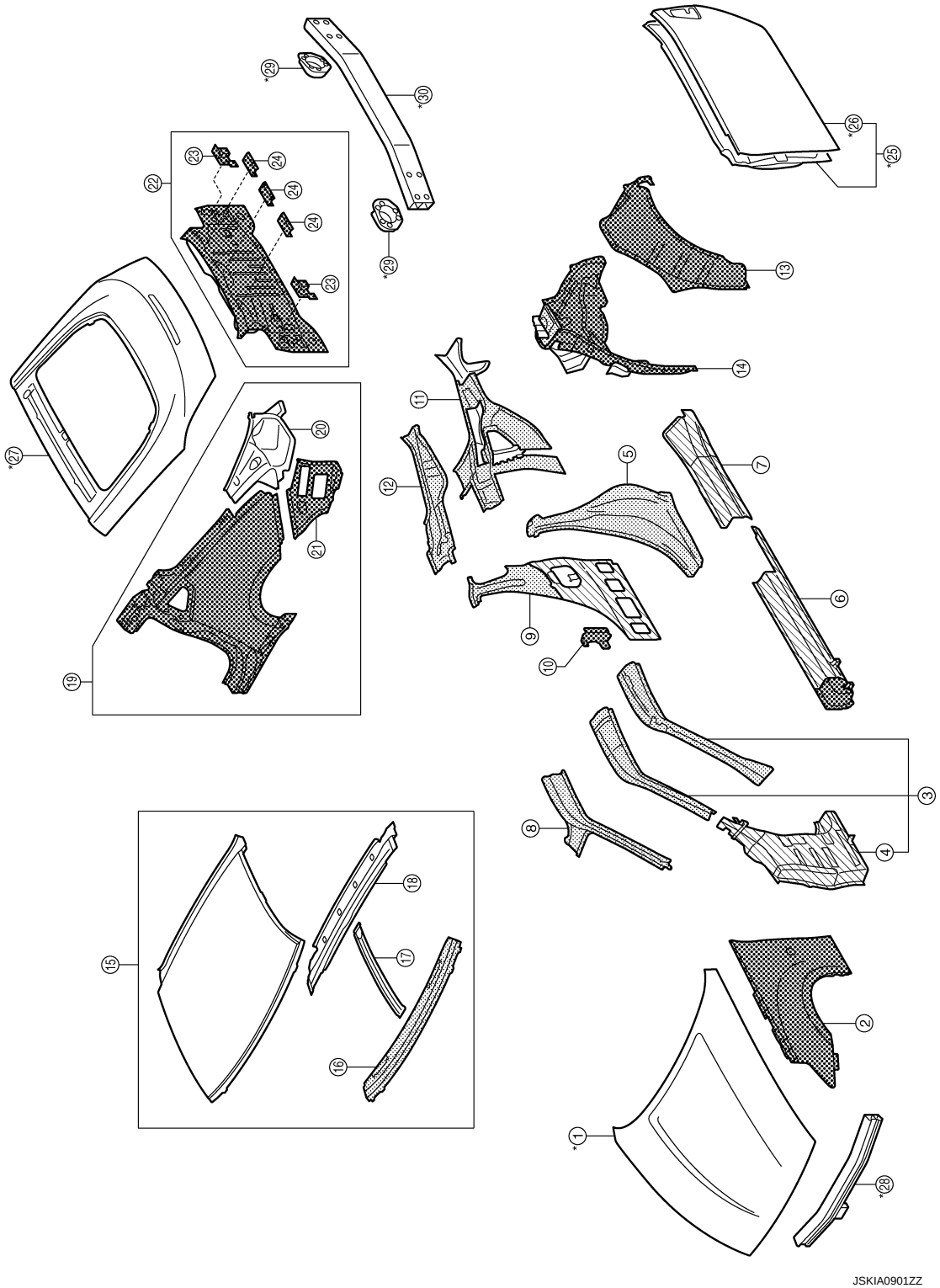
: Both sided anti-corrosive steel and HSS sections

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.

Body Component Parts

INFOID:0000000010837592



1. Hood
2. Front fender (RH & LH)
3. Upper front pillar reinforcement (RH & LH)
4. Front pillar brace (RH & LH)
5. Lock pillar reinforcement assembly (RH & LH)
6. Outer sill reinforcement (RH & LH)

7. Outer rear wheelhouse extension (RH & LH)	8. Inner side roof rail (RH & LH)	9. Inner lock pillar assembly (RH & LH)
10. Outer sill brace (RH & LH)	11. Inner rear pillar (RH & LH)	12. Rear pillar reinforcement (RH & LH)
13. Outer rear wheelhouse (RH & LH)	14. Inner rear wheelhouse (RH & LH)	15. Roof
16. Front roof rail	17. Center roof bow	18. Rear roof rail
19. Rear fender assembly (RH & LH)	20. Rear combination lamp base (RH & LH)	21. Rear fender extension (RH & LH)
22. Rear panel assembly	23. Rear bumper fascia center bracket	24. Rear bumper bracket
25. Door assembly (RH & LH)	26. Outer door panel (RH & LH)	27. Back door
28. Front bumper armature assembly	29. Rear bumper stay (RH & LH)	30. Inner center rear bumper reinforcement assembly

: Both sided anti-corrosive precoated steel sections

: High strength steel (HSS) sections

: Both sided anti-corrosive steel and HSS sections

*: Aluminum portion

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.

REMOVAL AND INSTALLATION

CORROSION PROTECTION

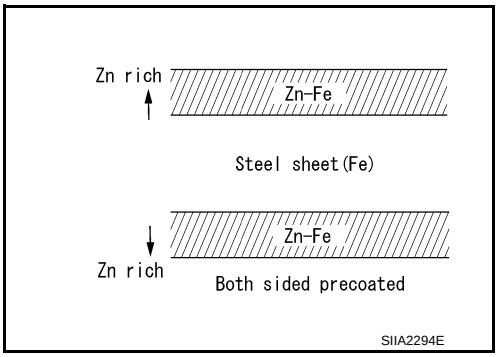
Description

INFOID:0000000010837593

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.



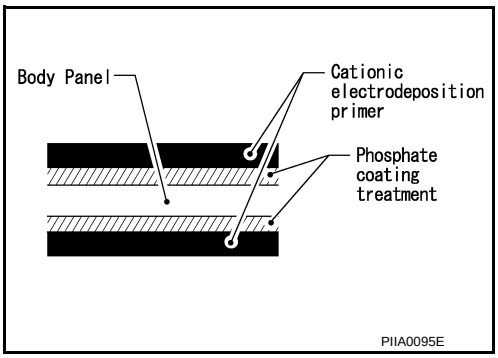
NISSAN genuine parts are fabricated from galvannealed steel. Therefore, it is recommended that NISSAN genuine parts or an equivalent be used for panel replacement to maintain the anti-corrosive performance built into the vehicle at the factory.

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.

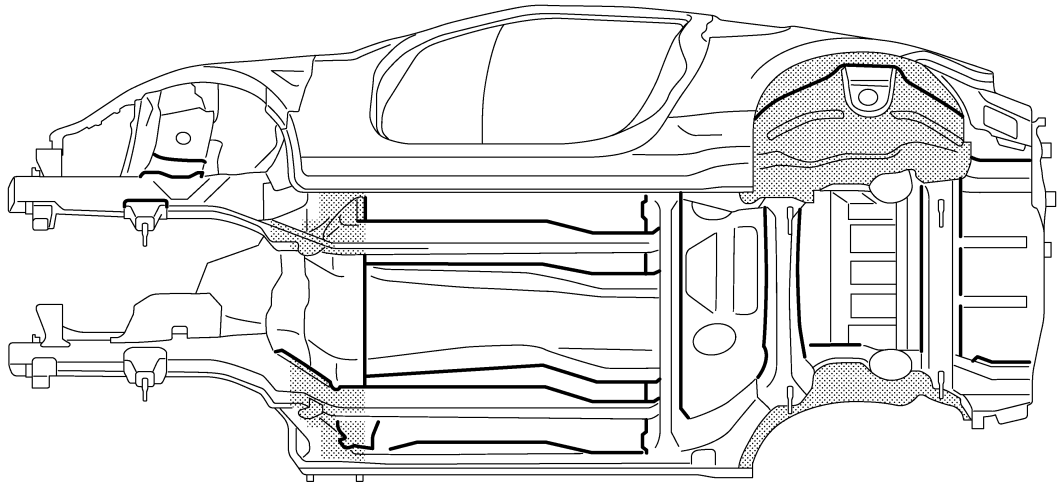
Undercoating

INFOID:0000000010837594

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.



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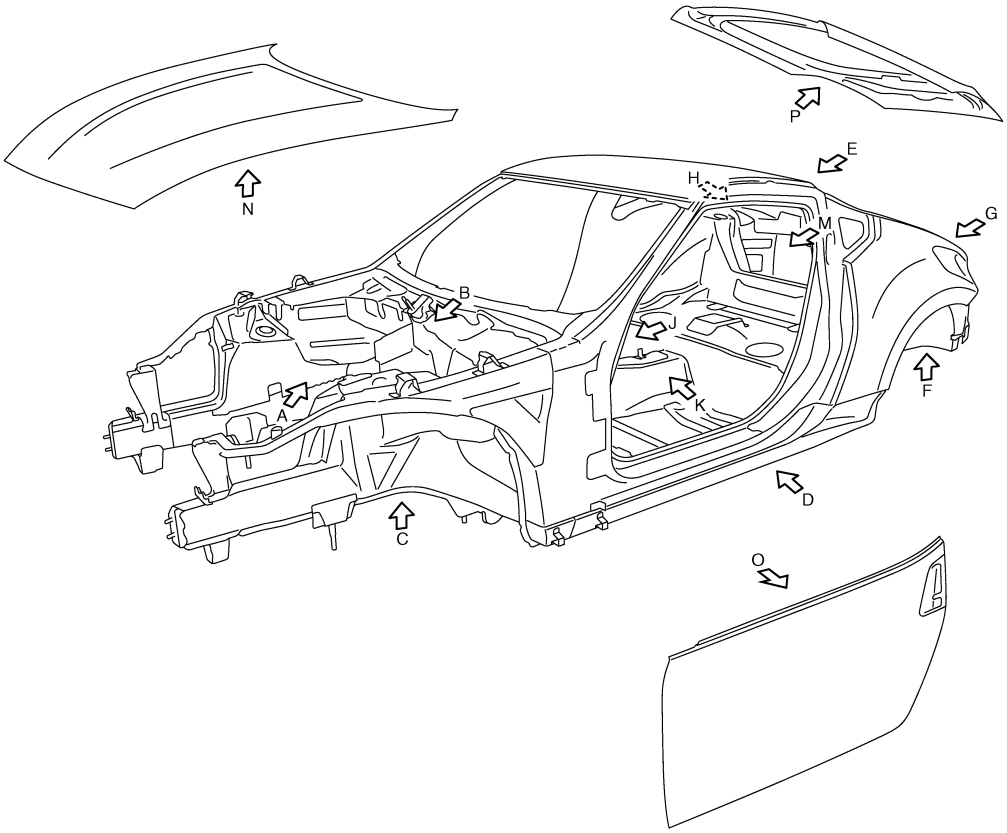
: Undercoated areas

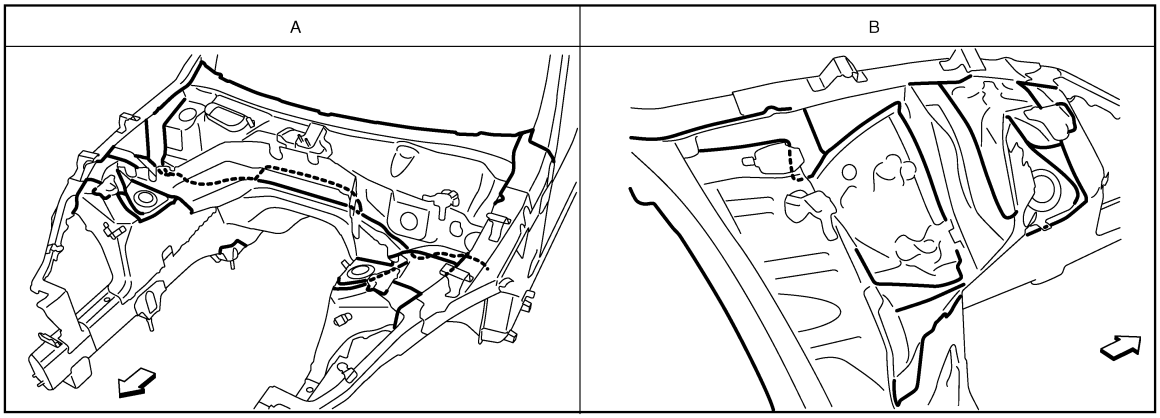
: Sealed portions

Body Sealing

INFOID:0000000010837595

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





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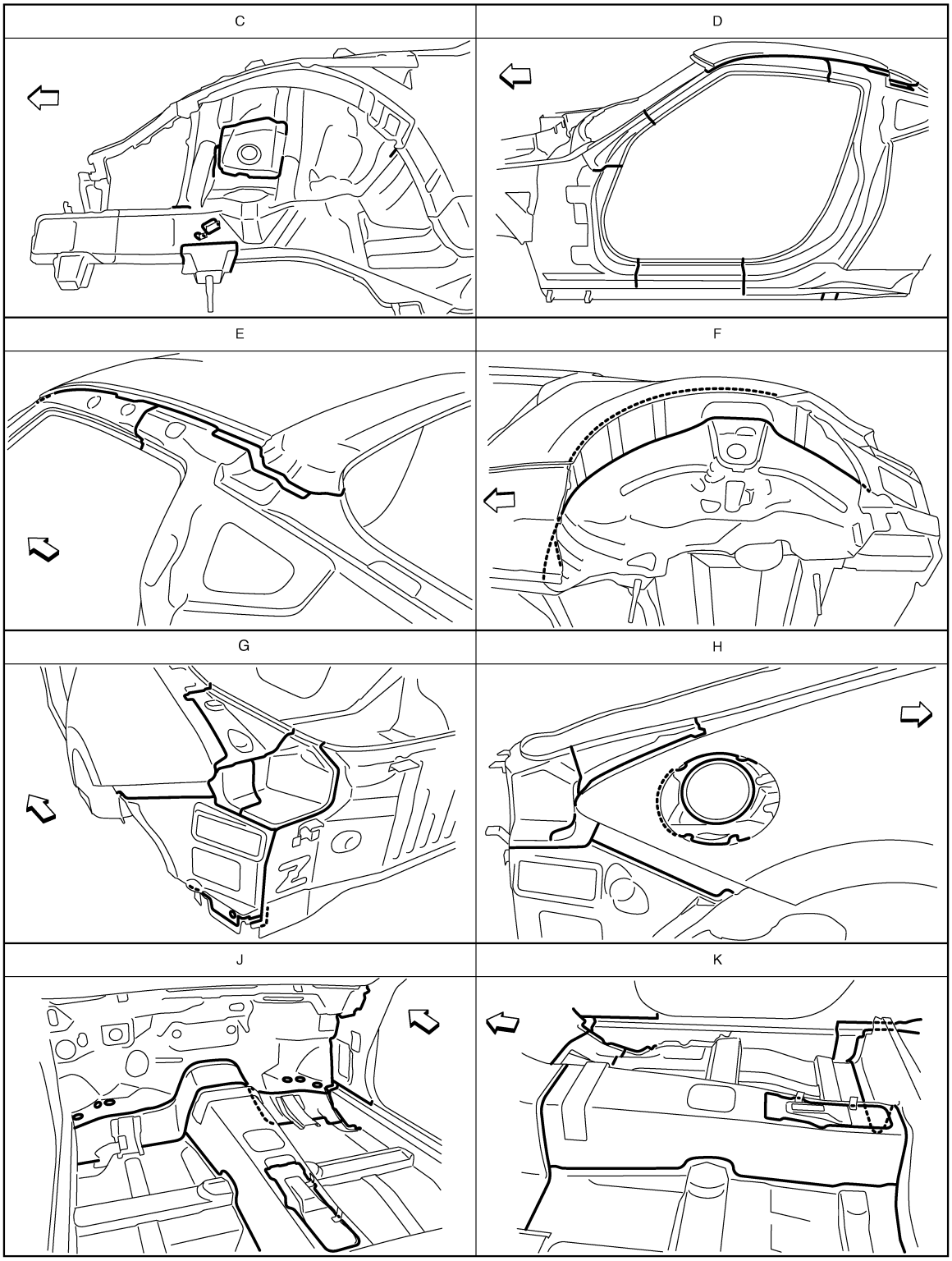
⇦: Vehicle front

▬: Sealed portions



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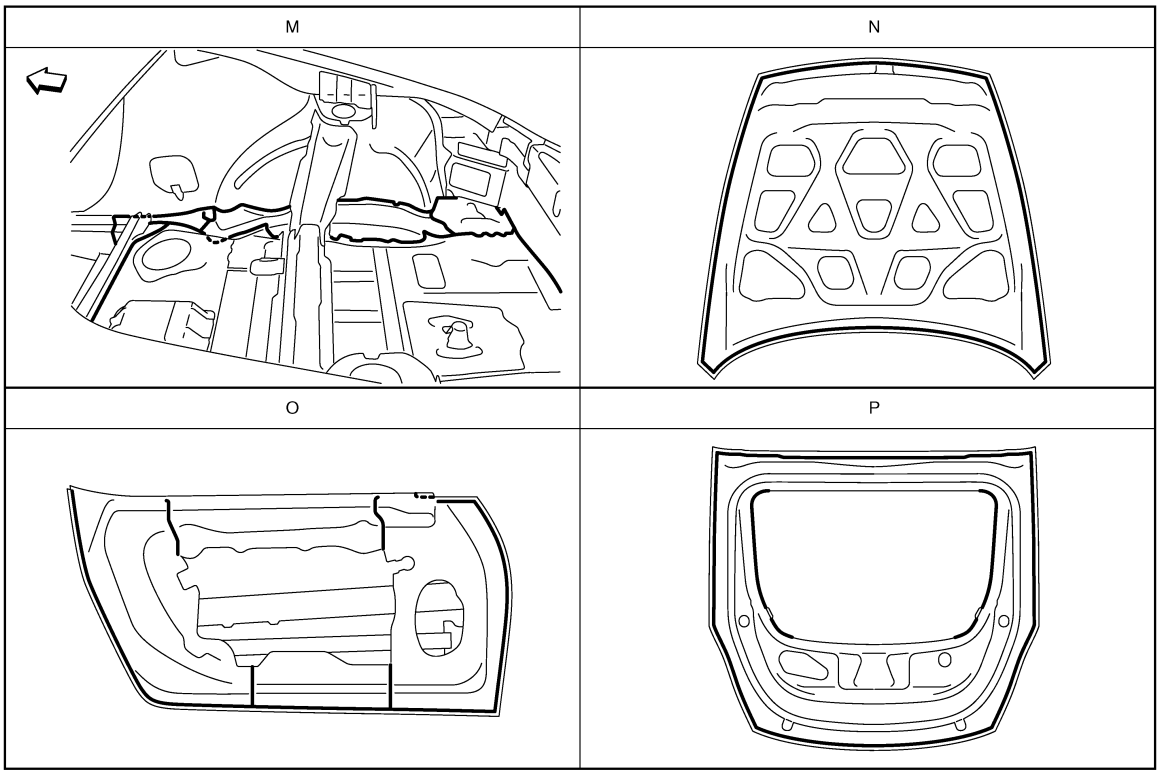
⇦: Vehicle front

▬: Sealed portions



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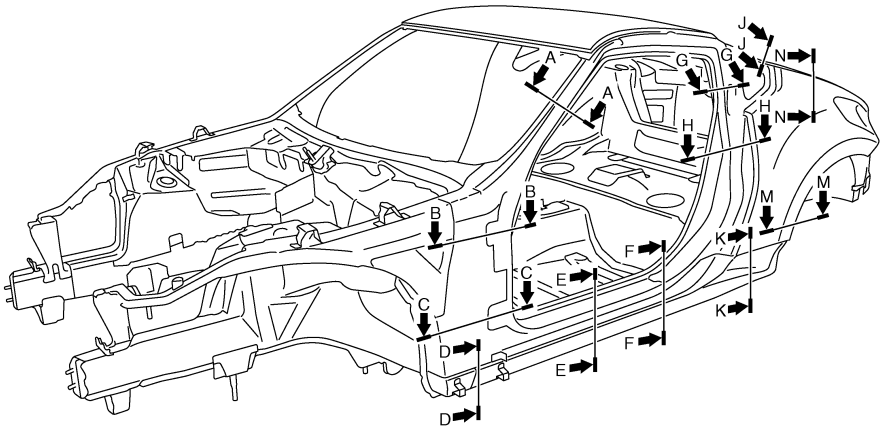
⇦: Vehicle front

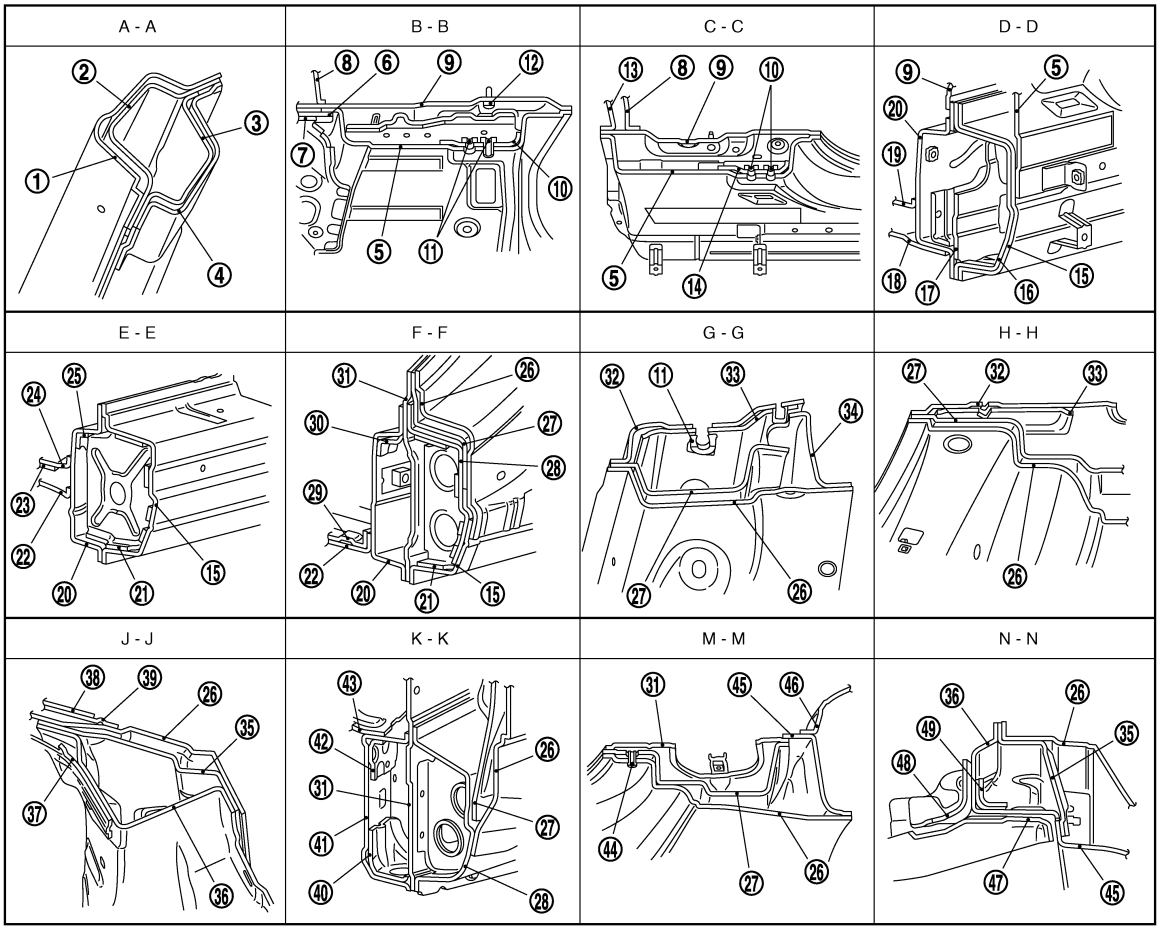
▬: Sealed portions

BODY CONSTRUCTION

Body Construction

INFOID:0000000010837596





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1. Upper outer front pillar
2. Outer front pillar reinforcement
3. Upper inner front pillar
4. Front roof rail brace
5. Front pillar hinge brace
6. Hoodledge reinforcement gusset
7. Rear hoodledge reinforcement
8. Upper dash
9. Upper rear hoodledge

10. Upper front pillar reinforcement
11. Weld nut
12. Weld bolt
13. Lower dash crossmember
14. Lower hinge plate
15. Outer sill reinforcement
16. Outer front sill brace
17. Lower front pillar reinforcement
18. Front side member outrigger
19. Lower dash
20. Inner sill
21. Outer sill brace
22. Front floor
23. Plate nut
24. 2nd crossmember
25. Center sill reinforcement
26. Rear fender
27. Lock pillar reinforcement
28. Outer rear wheelhouse extension
29. 3rd crossmember
30. Inner rear sill reinforcement
31. Lower inner lock pillar
32. Upper inner lock pillar
33. Upper inner lock pillar reinforcement
34. Inner side panel
35. Rear pillar reinforcement
36. Inner rear pillar
37. Rear roof rail brace
38. Roof
39. Upper rear roof rail
40. Rear tie down hook bracket
41. Rear side member front
42. Rear side member front reinforcement
43. Rear floor
44. Calk nut
45. Outer rear wheelhouse
46. Inner rear wheelhouse
47. Shock absorber mounting bracket
48. Shock absorber bracket reinforcement
49. Inner rear pillar reinforcement

Rear Fender Hemming Process

INFOID:0000000010837597

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

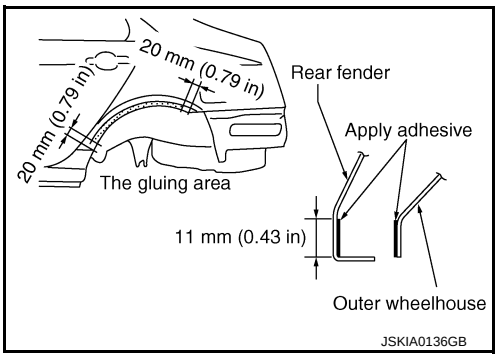
CAUTION:

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

PROCEDURE OF THE HEMMING PROCESS

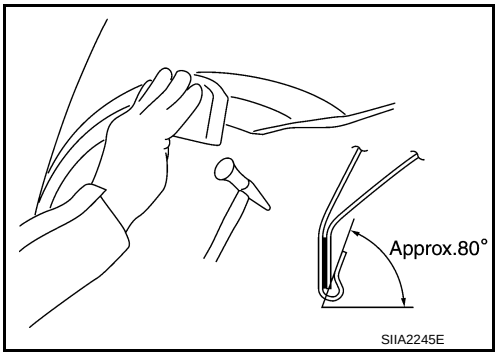
- Peel off old bonding material on the surface of the outer wheelhouse and clean thoroughly.
- Peel off a primer coat in the specified area where new adhesive is to be applied on rear fender (the replacing part).
- Apply new adhesive to both specified areas of the outer wheelhouse and rear fender.

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

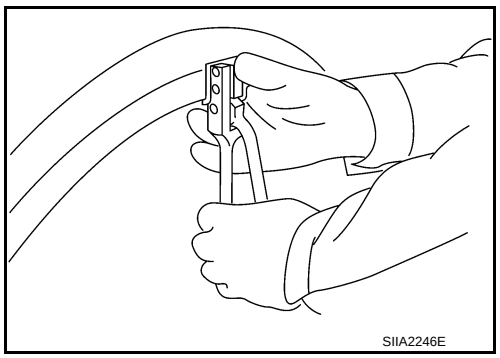


- Attach rear fender to the body of the car, and weld the required part except the hemming part.

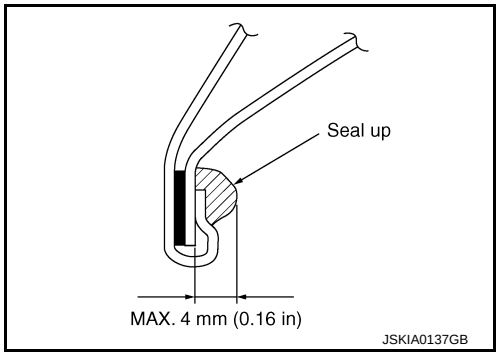
- Bend the welded part starting from the center of the wheel arch gradually with a hammer and a dolly. (Also hem the end of the flange.)
- Hemming with a hammer is conducted to an approximate angle of 80 degrees.



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



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



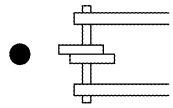
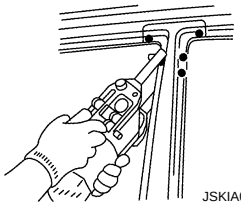
REPLACEMENT OPERATIONS

Description

INFOID:0000000010837598

- 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"> 
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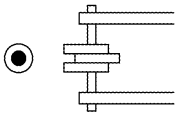
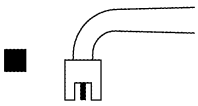
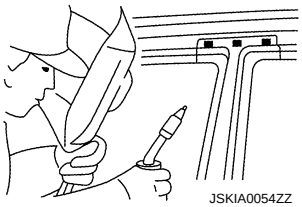
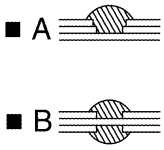
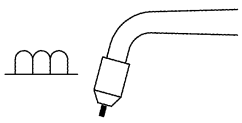
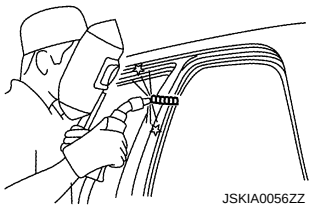
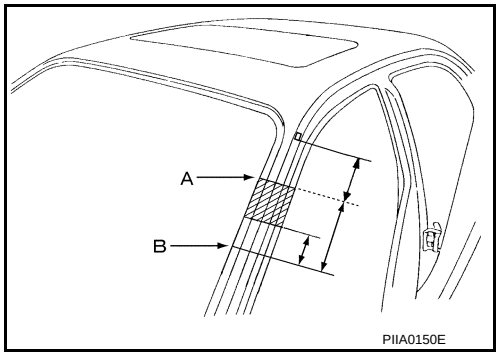
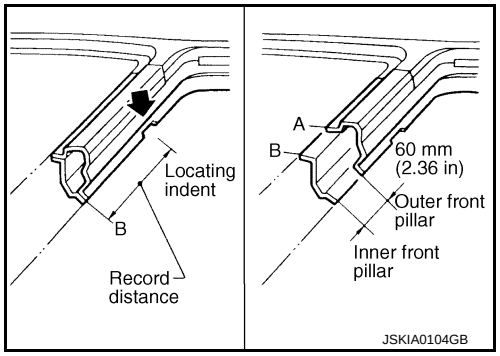
<tr><td> 
JSKIA0050ZZ</td><td>3-spot welds</td></tr>
<tr><td> 
JSKIA0051ZZ</td><td>MIG plug weld</td><td> 
JSKIA0054ZZ
For 3 panels plug weld method
 
■ A
■ B
JSKIA0055ZZ</td></tr>
<tr><td> 
JSKIA0052ZZ</td><td>MIG seam weld / Point weld</td><td> 
JSKIA0056ZZ</td></tr>
</table>

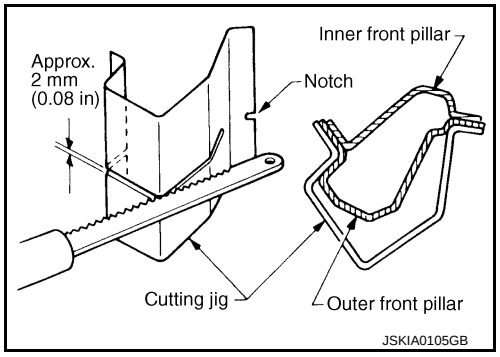
- Front pillar butt joint can be determined anywhere within shaded area as shown in the figure. The best location for the butt joint is at position A due to the construction of the vehicle.



- 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.

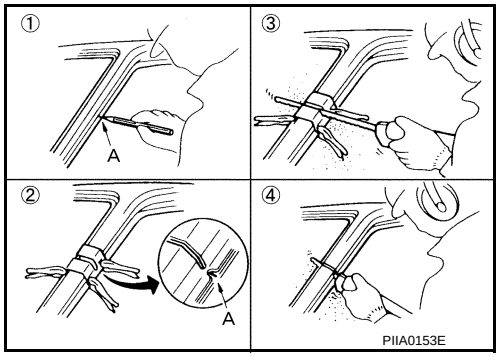


- Prepare a cutting jig to make outer pillar easier to cut. Also, this will permit the service part to be accurately cut at the joint position.



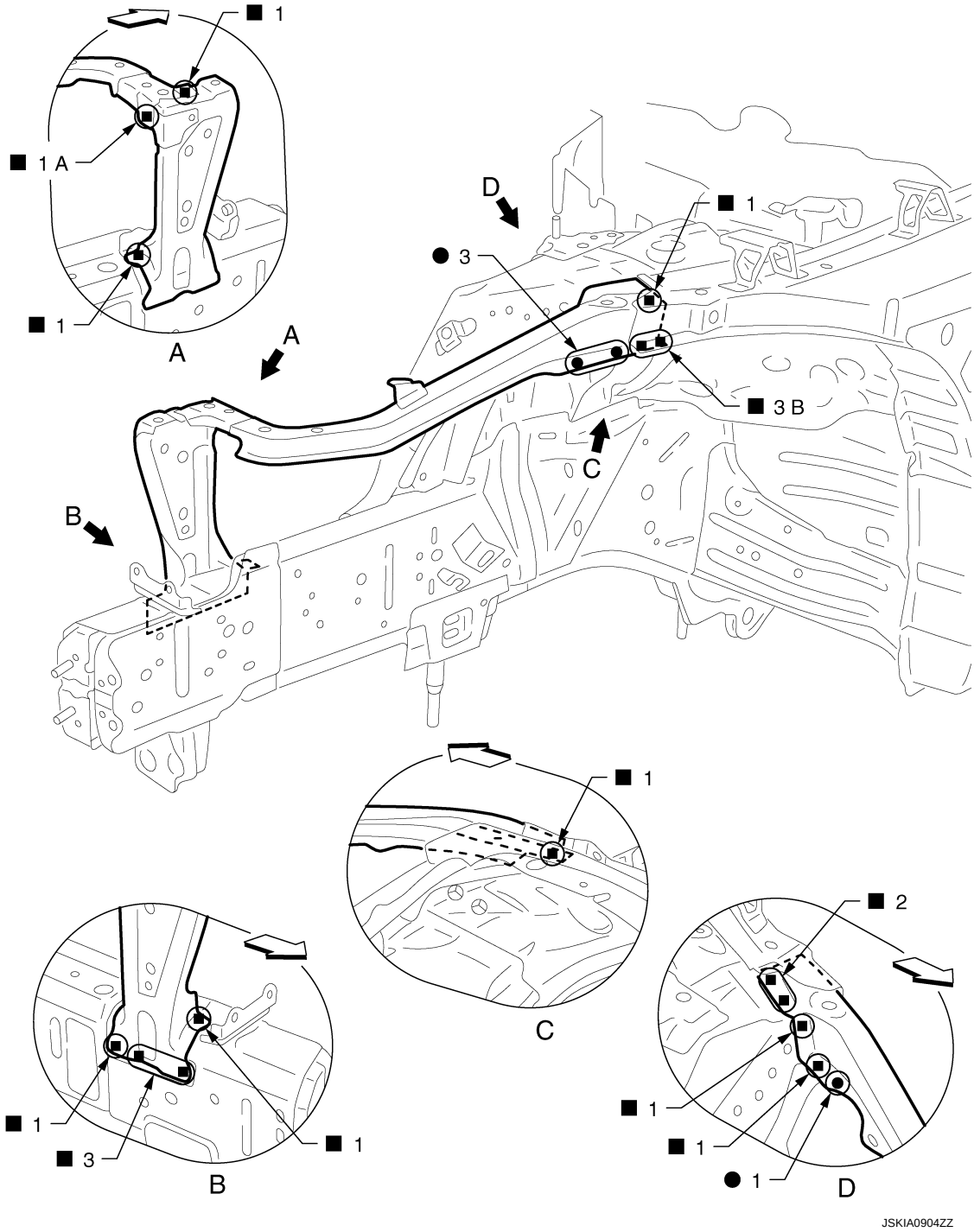
- An example of cutting operation using a cutting jig is as per the following.

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:0000000010837599



⇦: Vehicle front

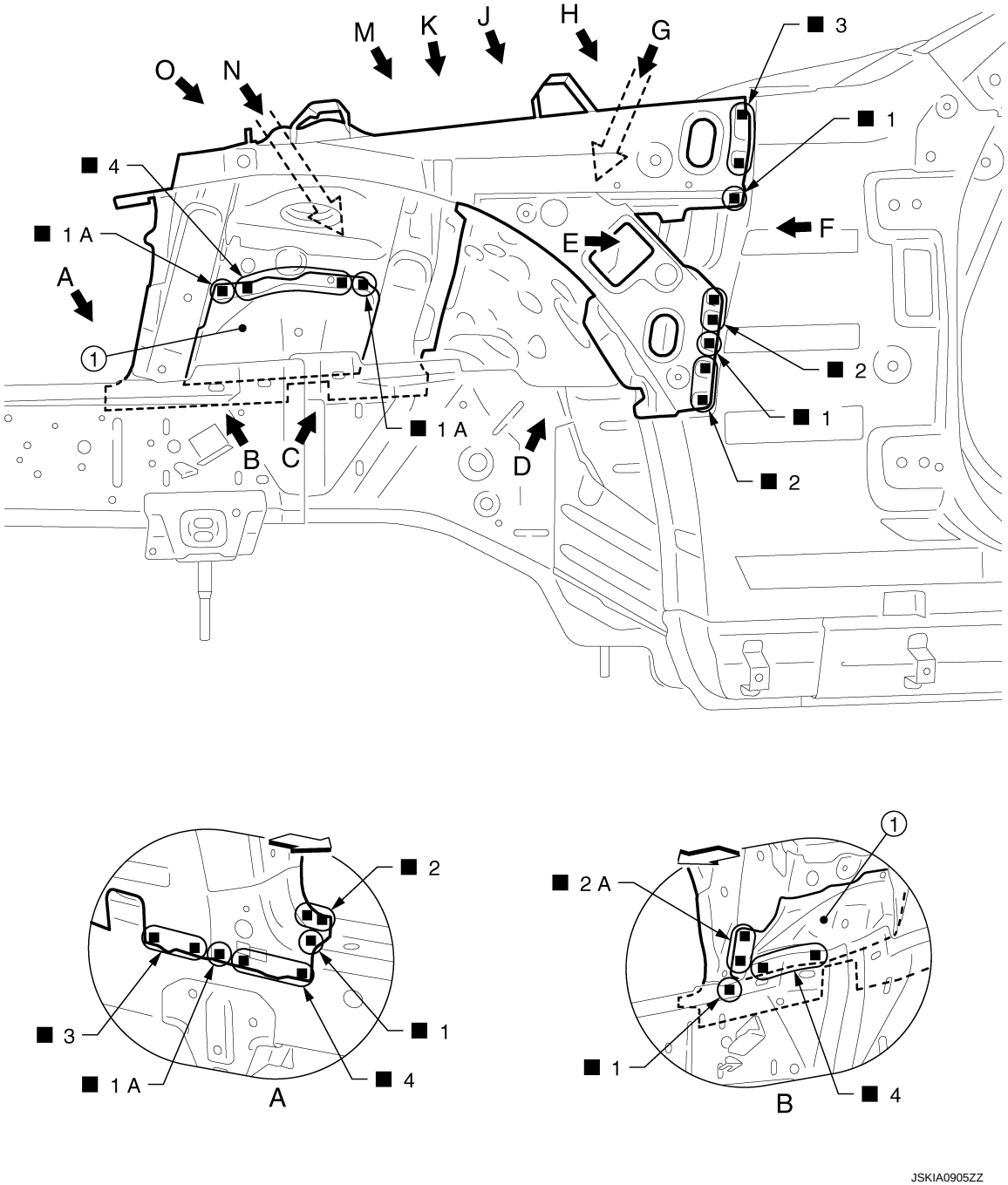
Replacement parts

- Side radiator core support (LH)
- Front side member connector assembly (LH)

Hoodledge

INFOID:0000000010837600

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

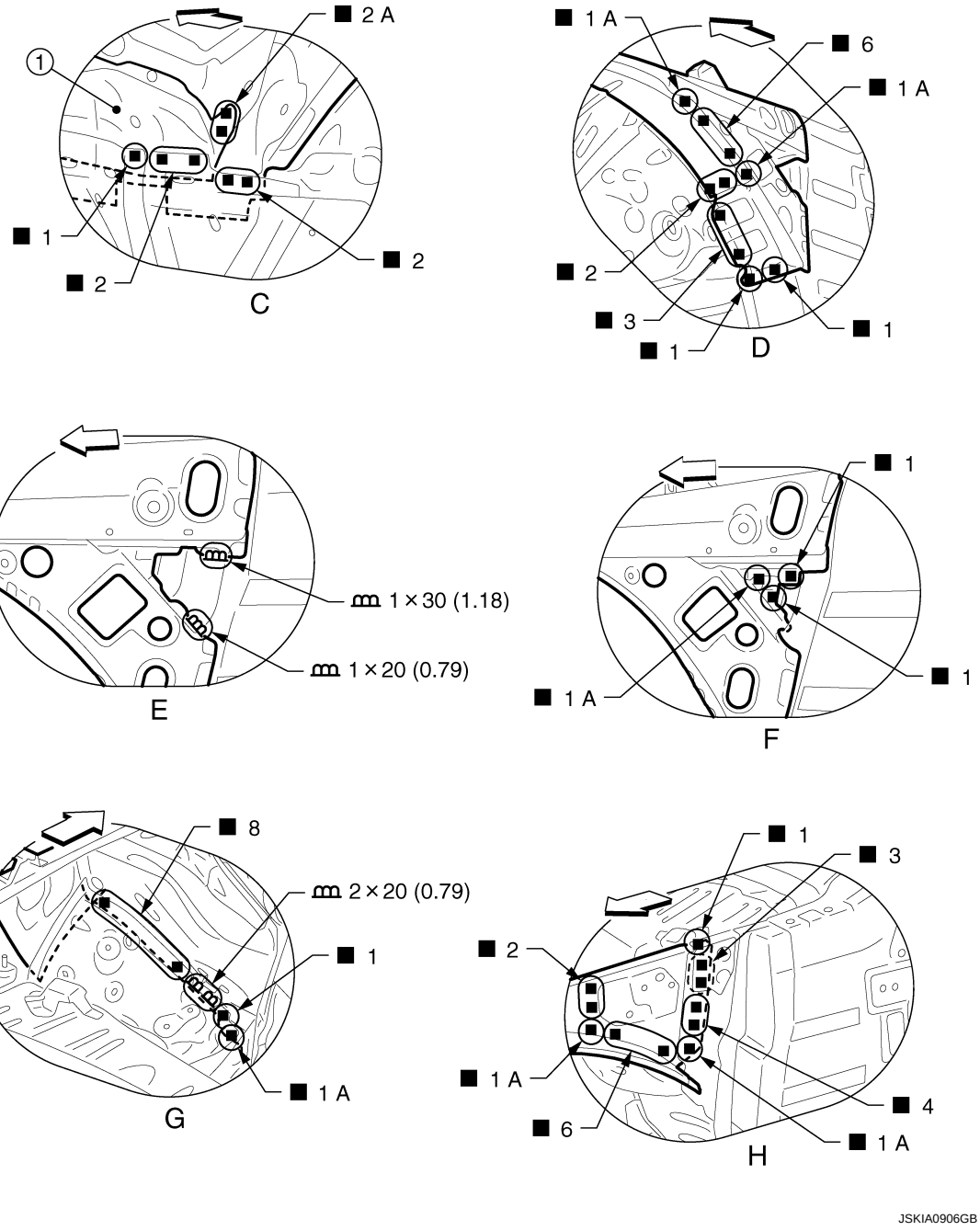


1. Front side member center closing plate

⇦: Vehicle front

Replacement parts

- Upper front hoodledge (LH)
- Hoodledge reinforcement (LH)
- Front strut housing (LH)



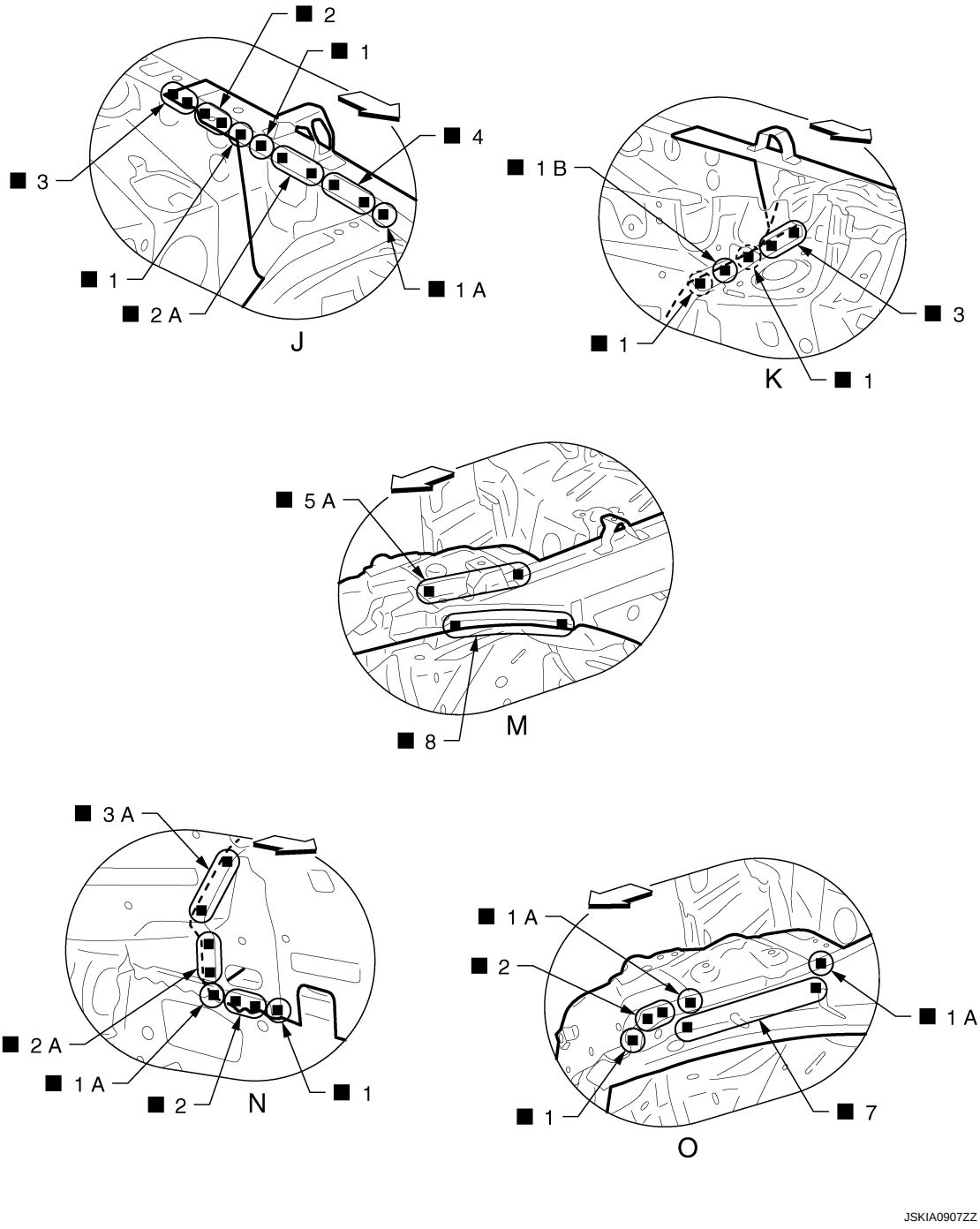
1. Front side member center closing plate

Unit: mm (in)

⇦: Vehicle front

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

View H: Before installing hoodledge reinforcement



JSKIA0907ZZ

⇦: Vehicle front

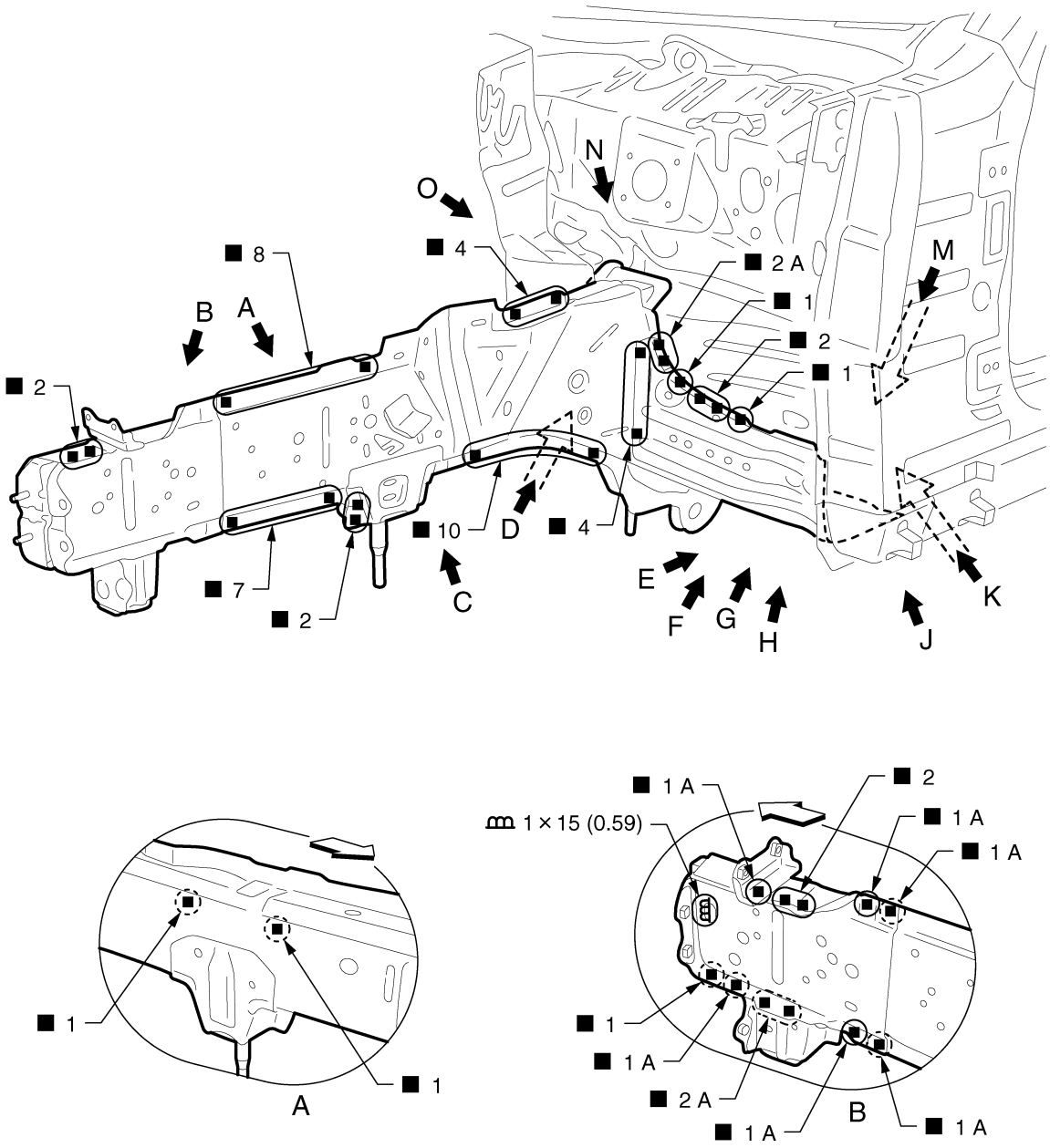
( ): Weld the parts onto the back of the component part.

View O: Before installing hoodledge reinforcement

Front Side Member

INFOID:0000000010837601

Work after radiator core support and hoodledge are removed.
Assemble the hoodledge and check the fitting according to Body Alignment before replacing the front side member center closing plate.



Unit: mm (in)

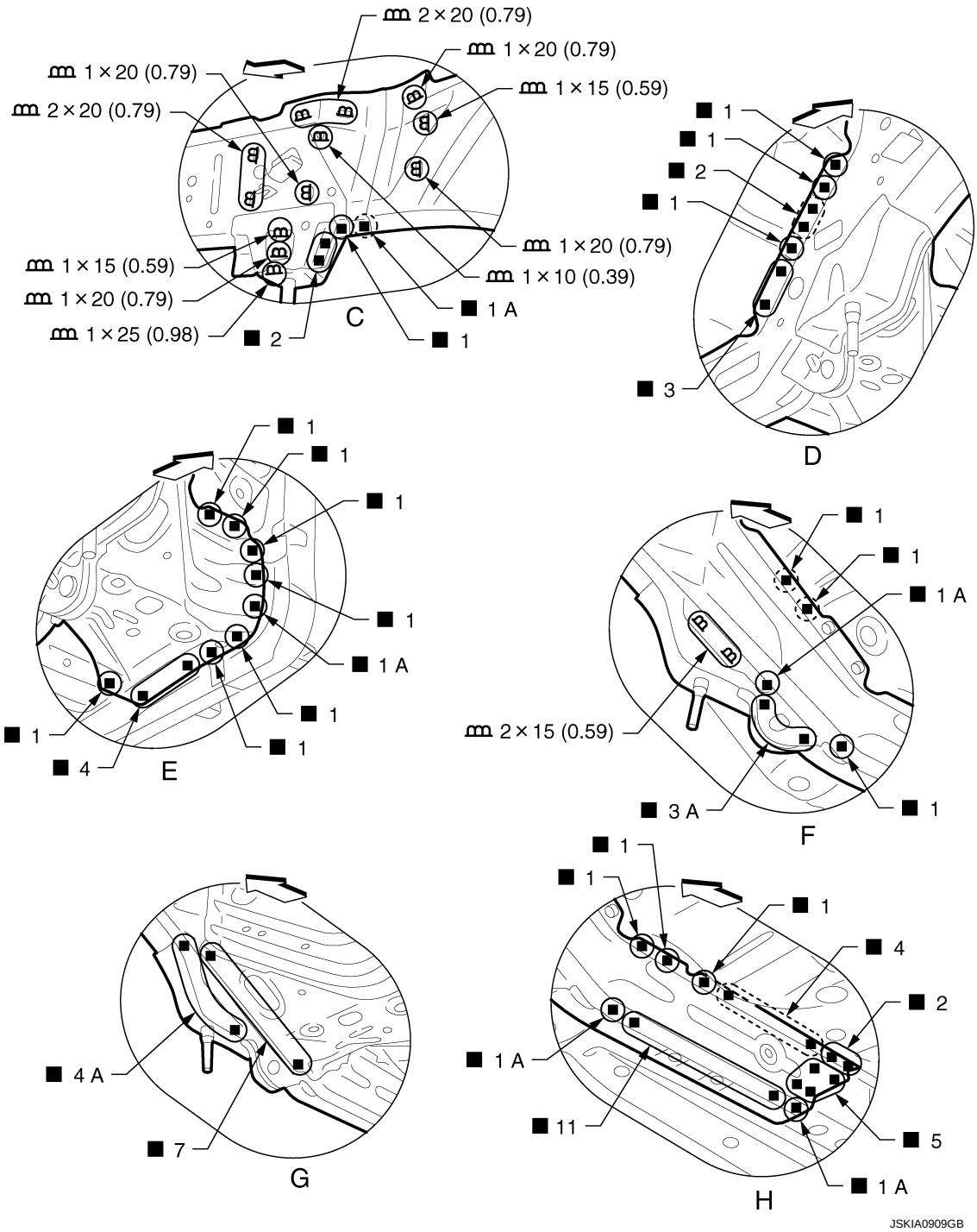
⇦: Vehicle front

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

Replacement parts

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

View A: Before installing front side member closing plate assembly

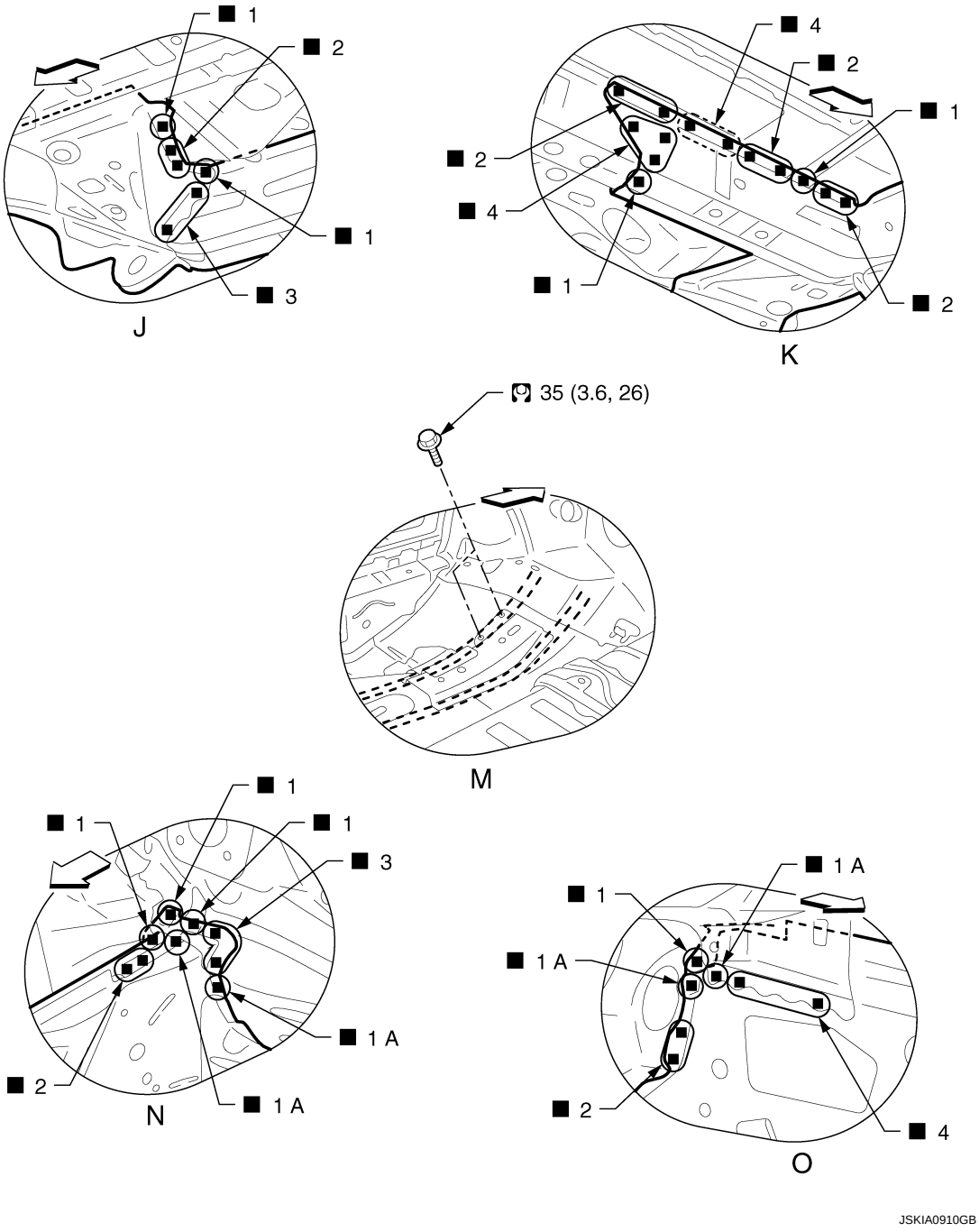


Unit: mm (in)

⇦: Vehicle front

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

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



JSKIA0910GB

: Vehicle front

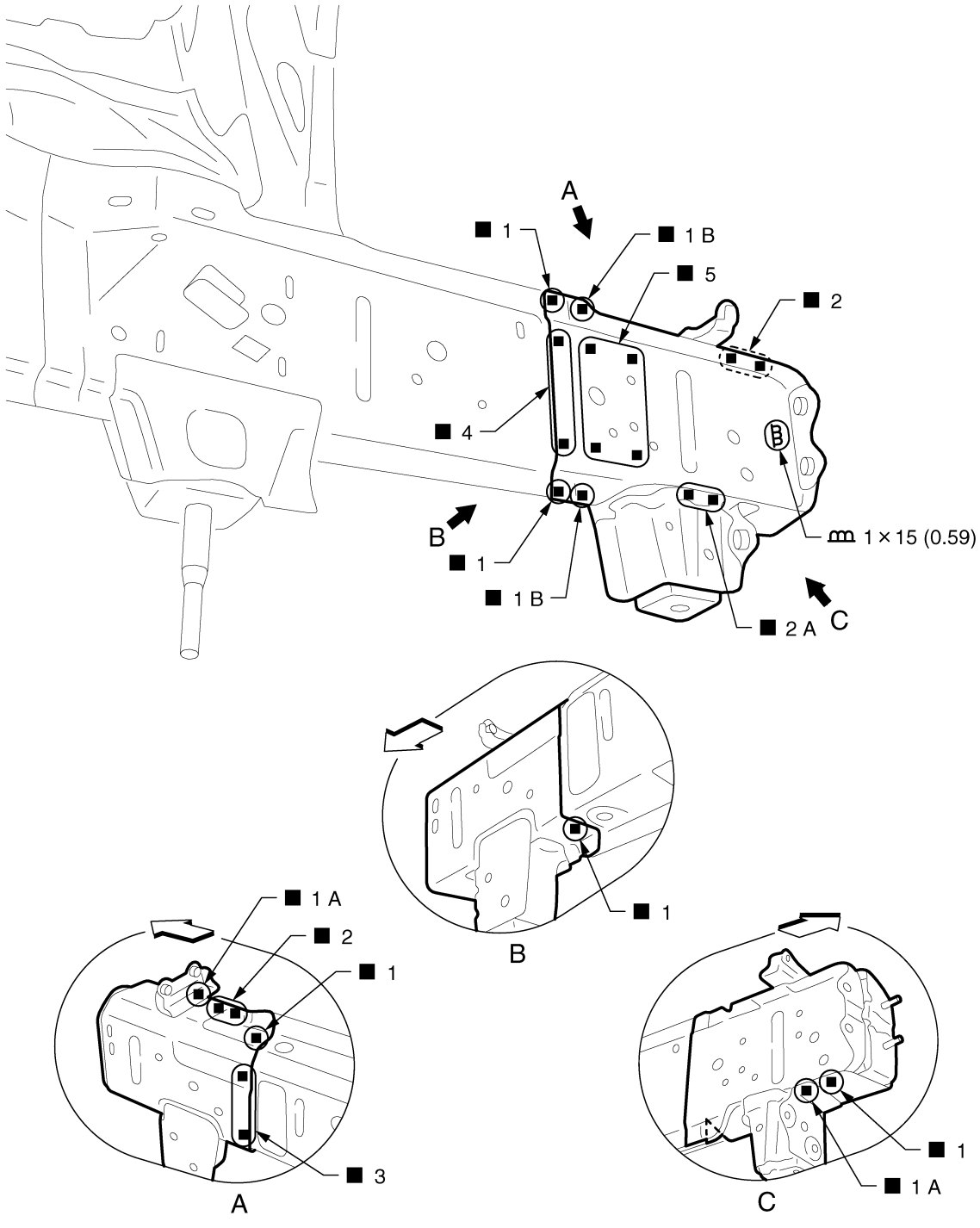
: Weld the parts onto the back of the component part.

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

Front Side Member (Partial Replacement)

INFOID:0000000010837602

Work after radiator core support is removed.



JSKIA0911GB

Unit: mm (in)

⇦: Vehicle front

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

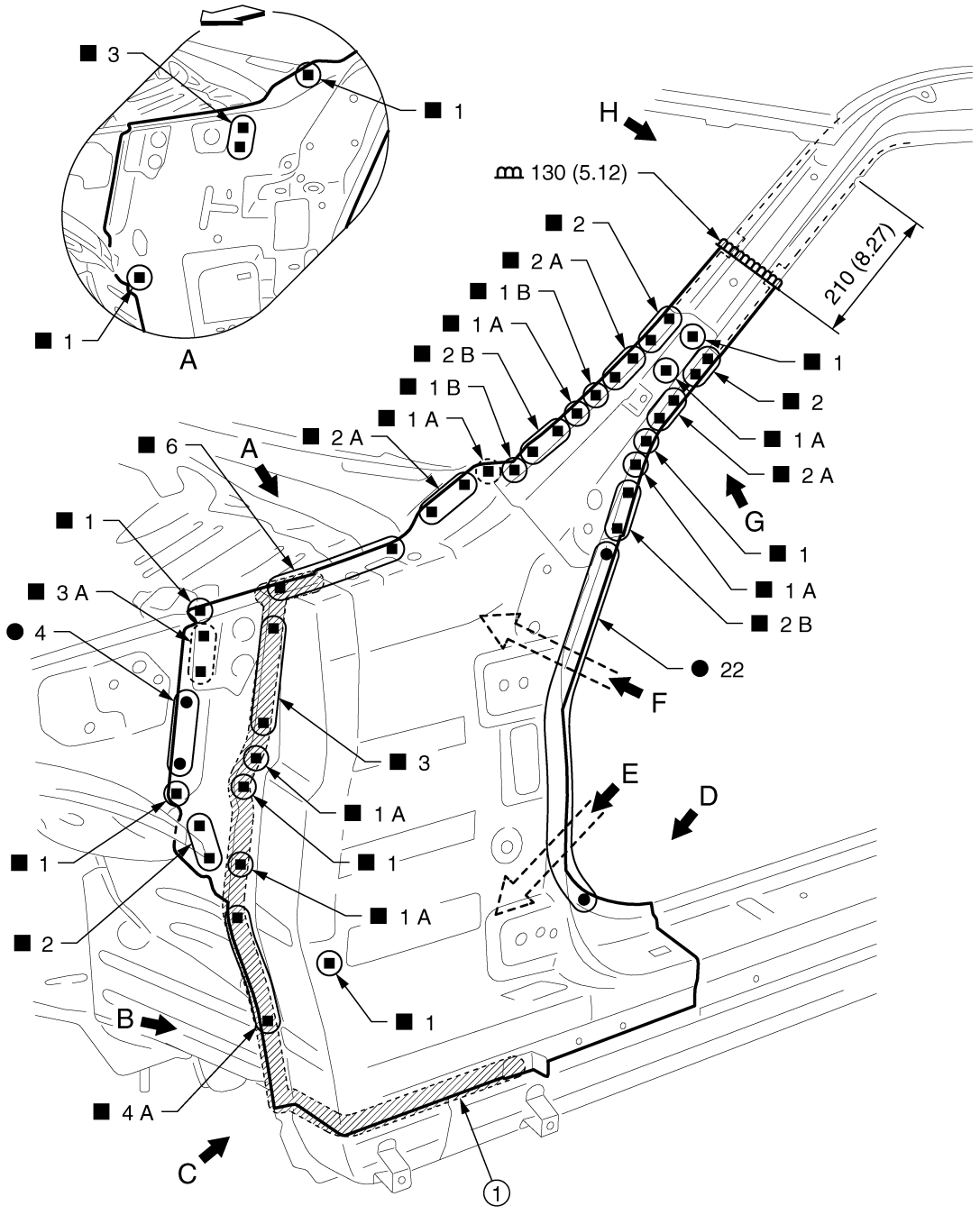
Replacement parts

- Front side member front extension (RH)
- Front side member front closing plate (RH)
- Front side rear closing reinforcement (RH)

Front Pillar (Partial Replacement)

INFOID:0000000010837603

Work after hoodledge reinforcement is removed.



JSKIA0912GB

1. Body sealing

Unit: mm (in)

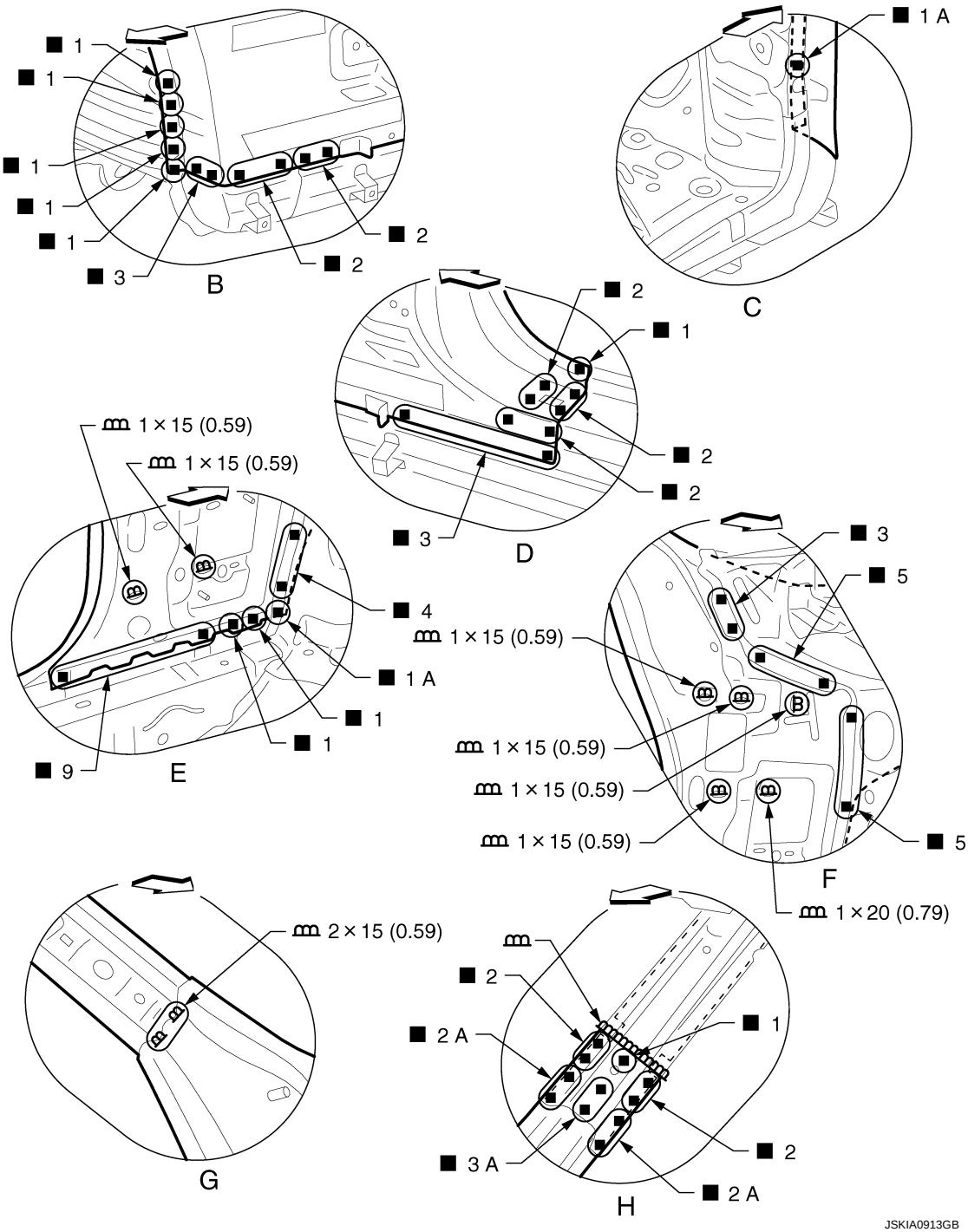
⇦: Vehicle front

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

Replacement parts

- Upper front pillar reinforcement (LH)
- Upper rear hoodledge (LH)
- Inner side roof rail (LH)

View A: Before installing upper front pillar reinforcement



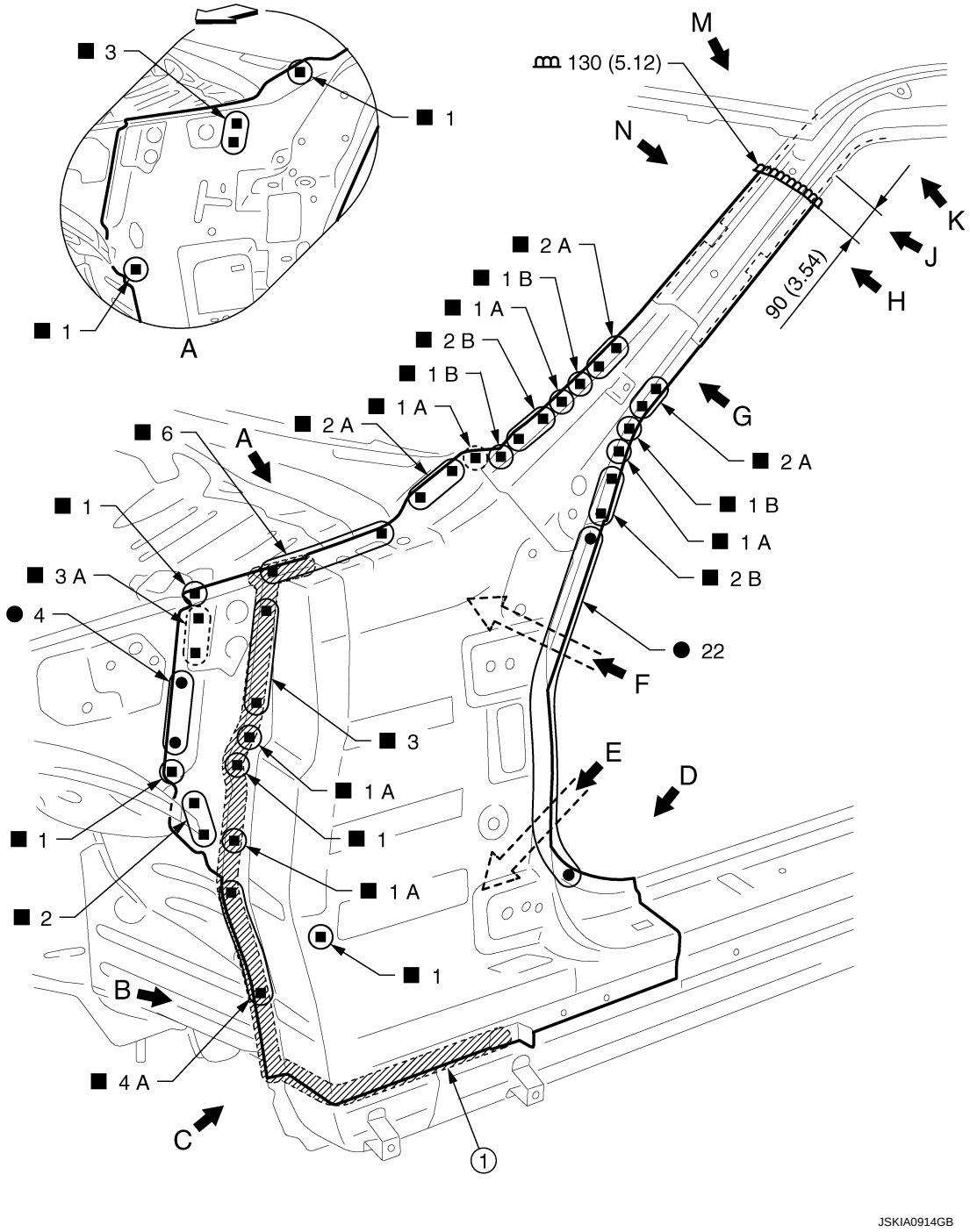
Unit: mm (in)

⇦: Vehicle front

Front Pillar

INFOID:0000000010837604

Work after hoodledge reinforcement is removed.
Remove the front roof rail brace (reusable).



1. Body sealing

Unit: mm (in)

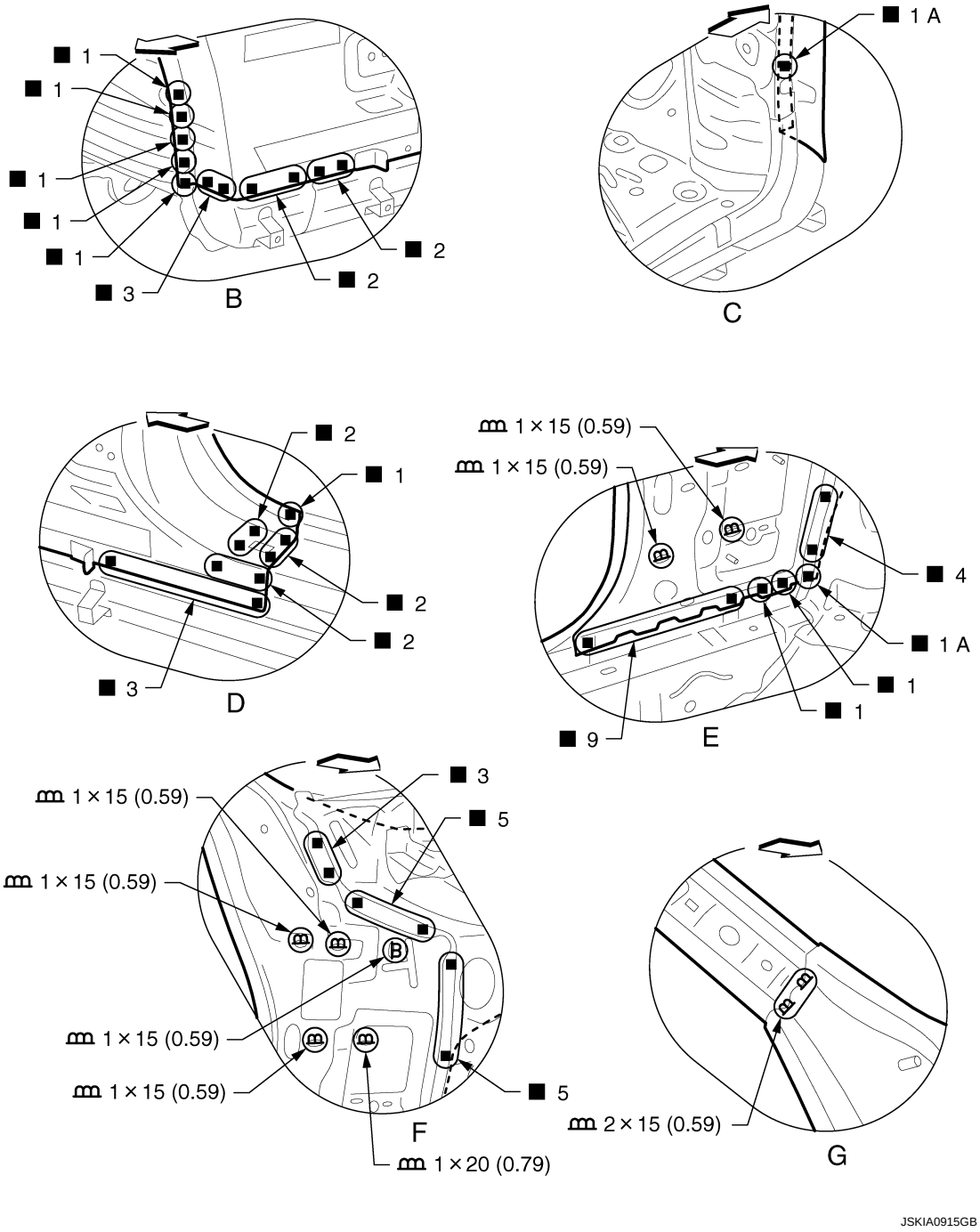
⇦: Vehicle front

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

Replacement parts

- Upper front pillar reinforcement (LH)
- Upper rear hoodledge (LH)
- Inner side roof rail (LH)

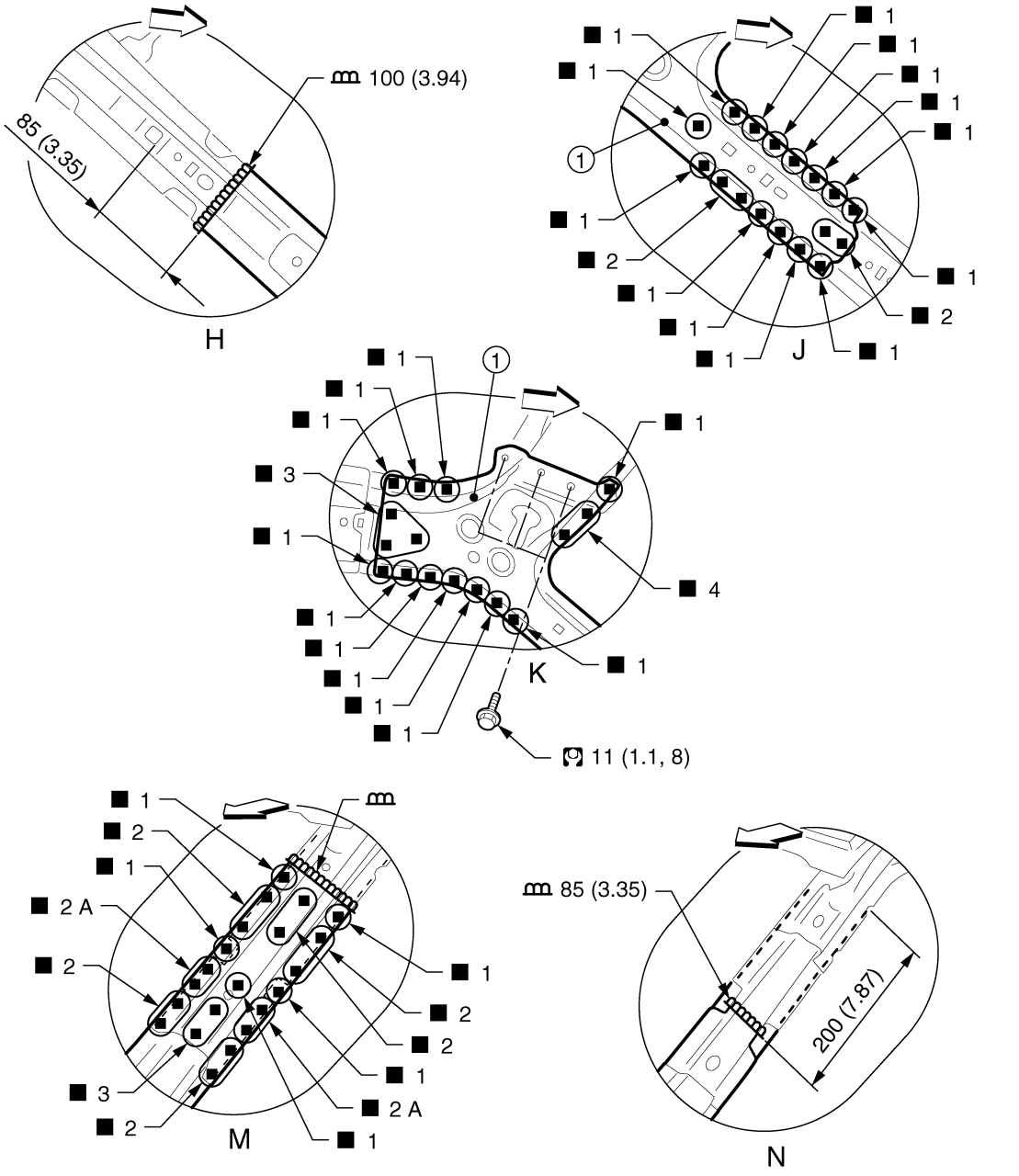
View A: Before installing upper front pillar reinforcement



JSKIA0915GB

Unit: mm (in)

⇦: Vehicle front



1. Front roof rail brace

Unit: mm (in)

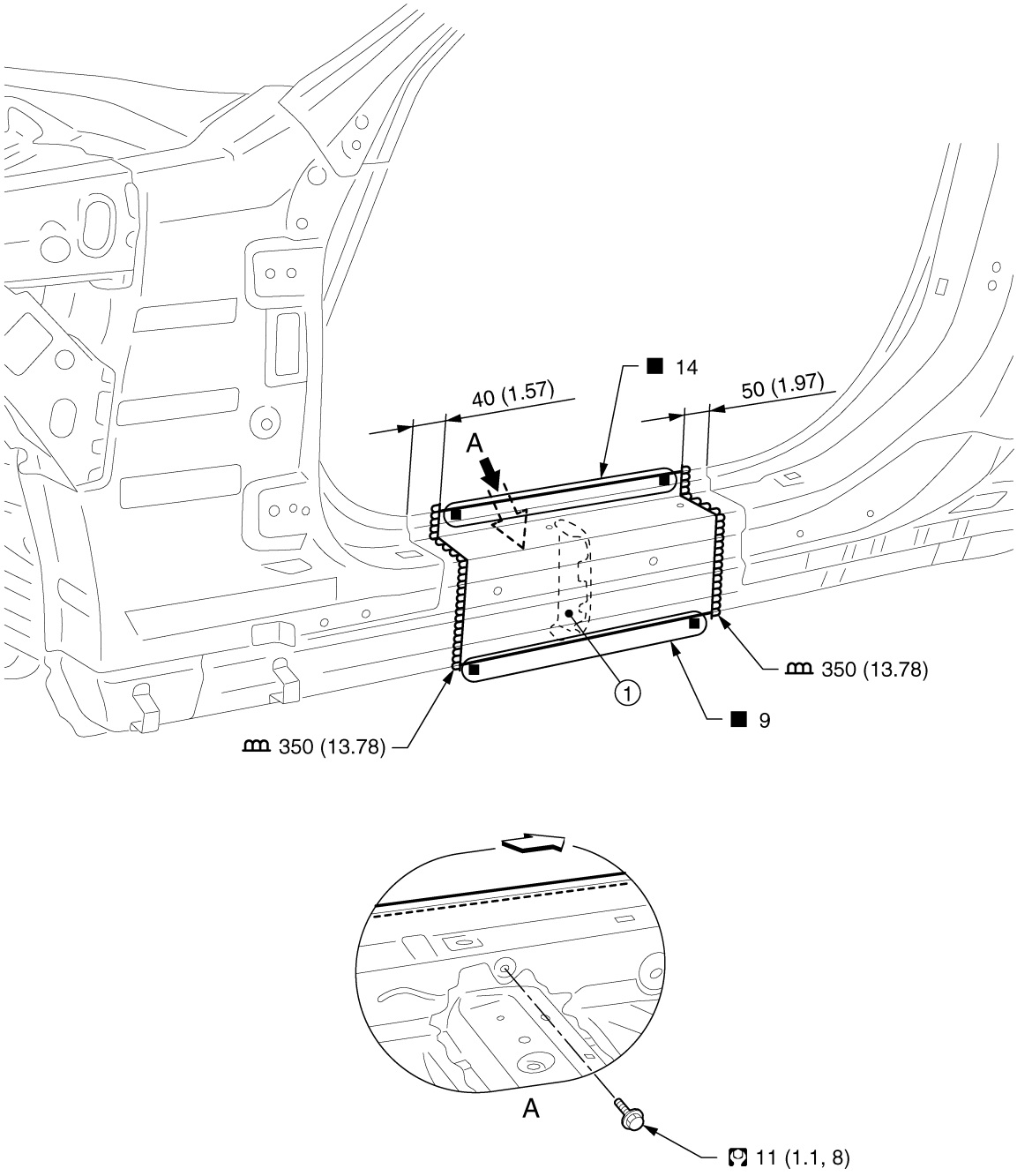
⇦: Vehicle front

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

View H: Before installing front roof rail brace
View N: Before installing upper outer front pillar

Outer Sill (Partial Replacement by Cutting)

INFOID:0000000010837605



JSKIA0917GB

1. Outer sill brace

Unit: mm (in)

⇦: Vehicle front

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

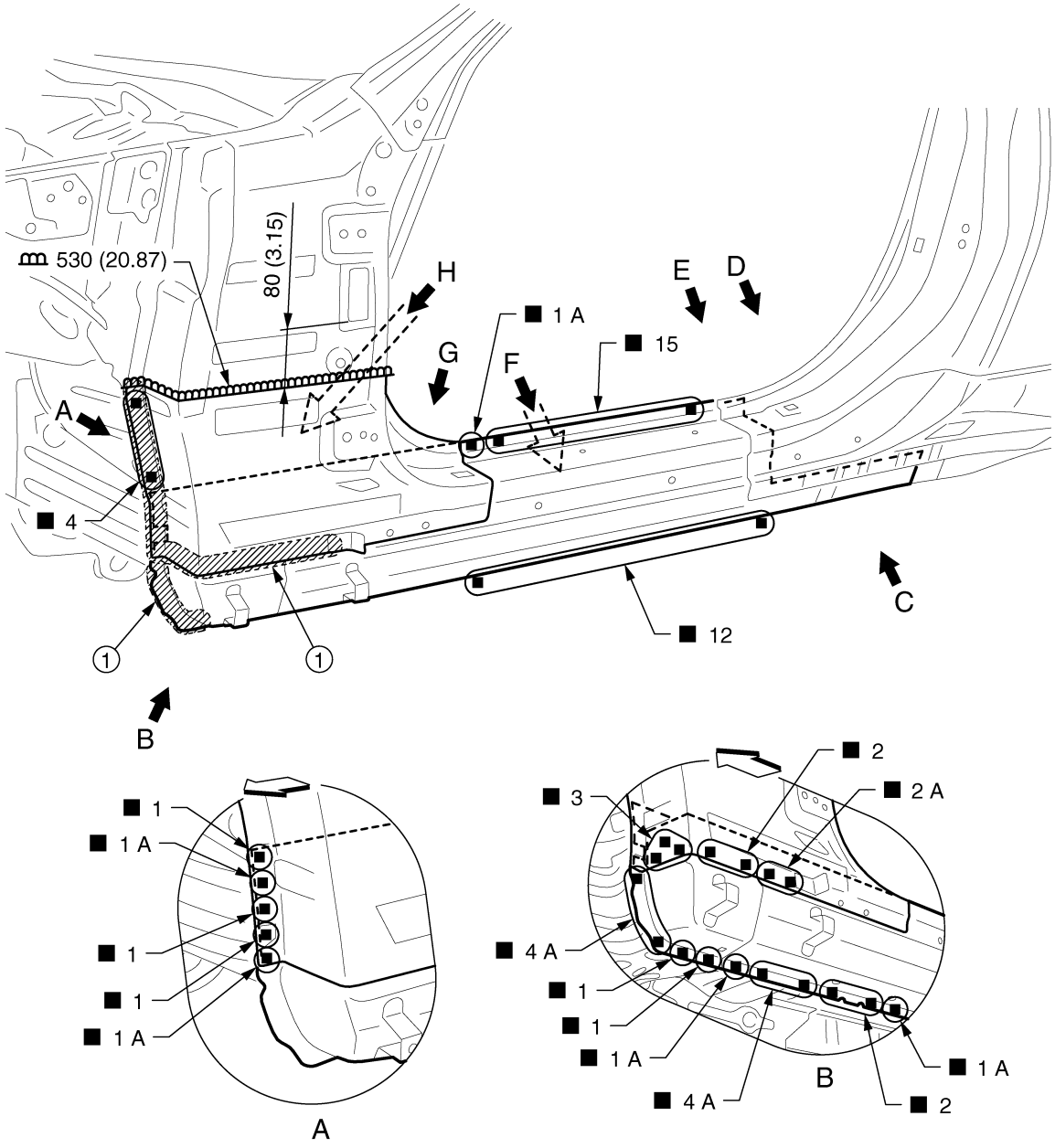
Replacement parts

- Outer sill reinforcement (LH)

Outer Sill (Partial Replacement by Piece)

INFOID:0000000010837606

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



JSKIA0918GB

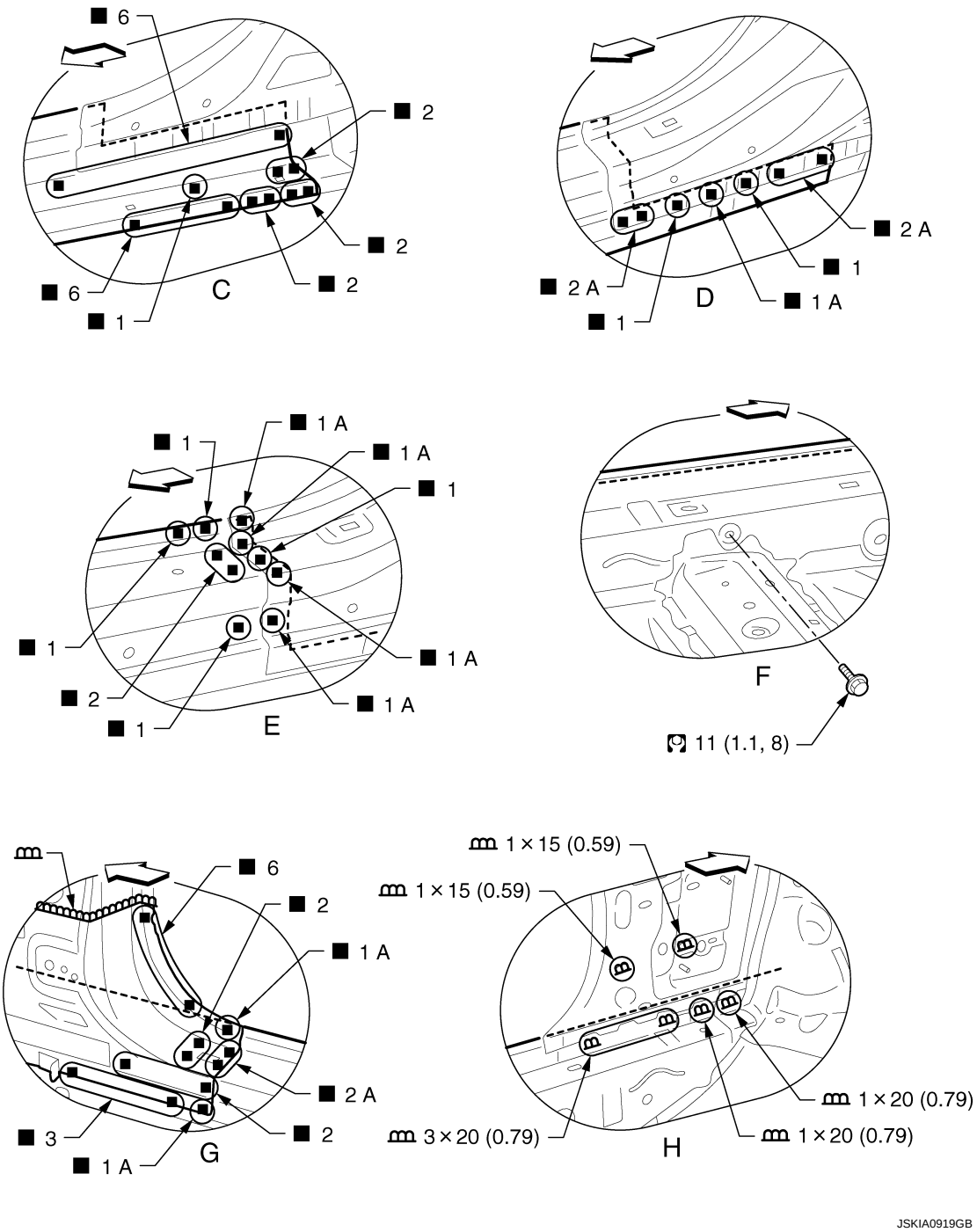
1. Body sealing

Unit: mm (in)

⇦: Vehicle front

Replacement parts

- Outer sill reinforcement (LH)



JSKIA0919GB

Unit: mm (in)

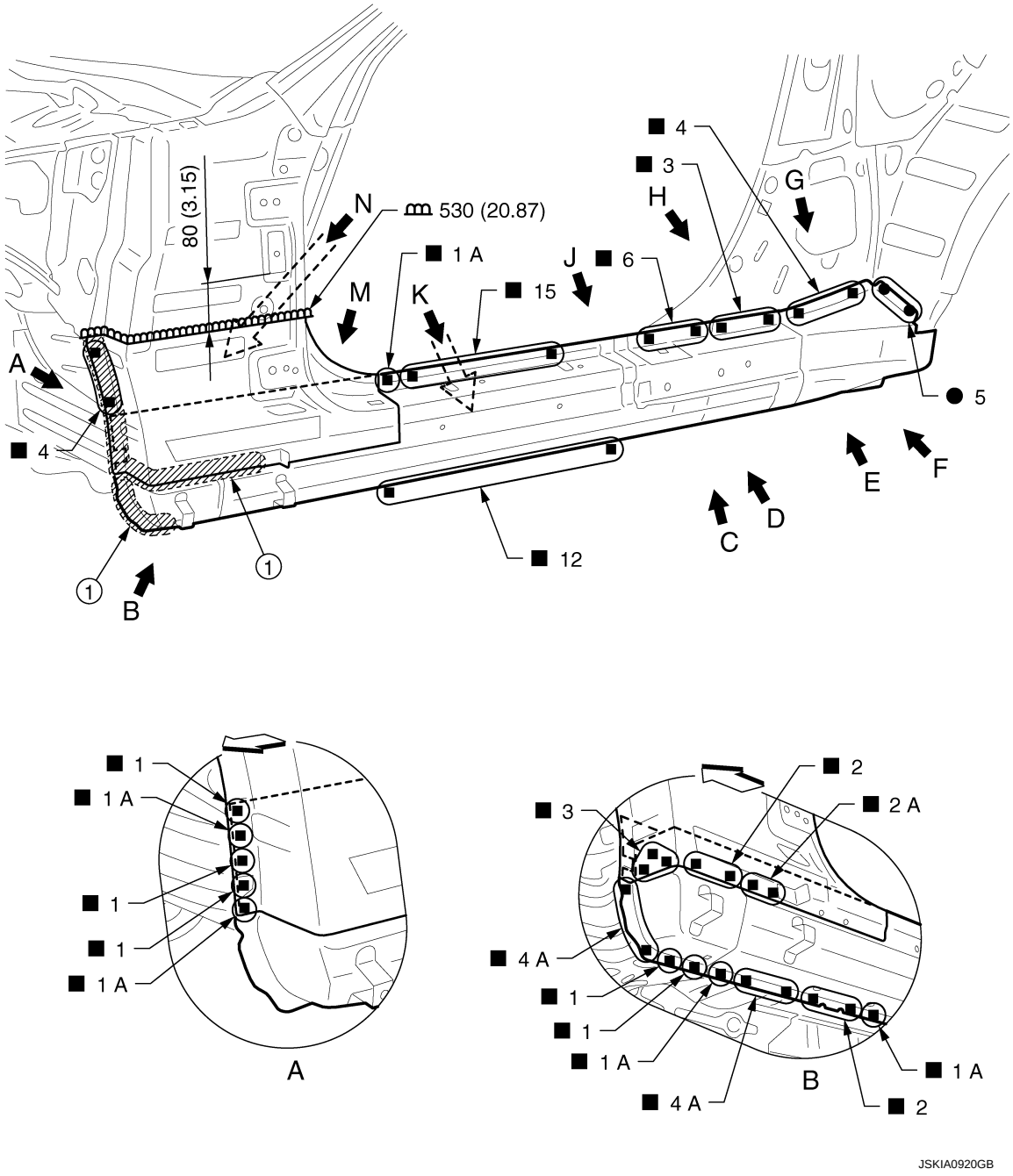
⇦: Vehicle front

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

Outer Sill

INFOID:0000000010837607

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



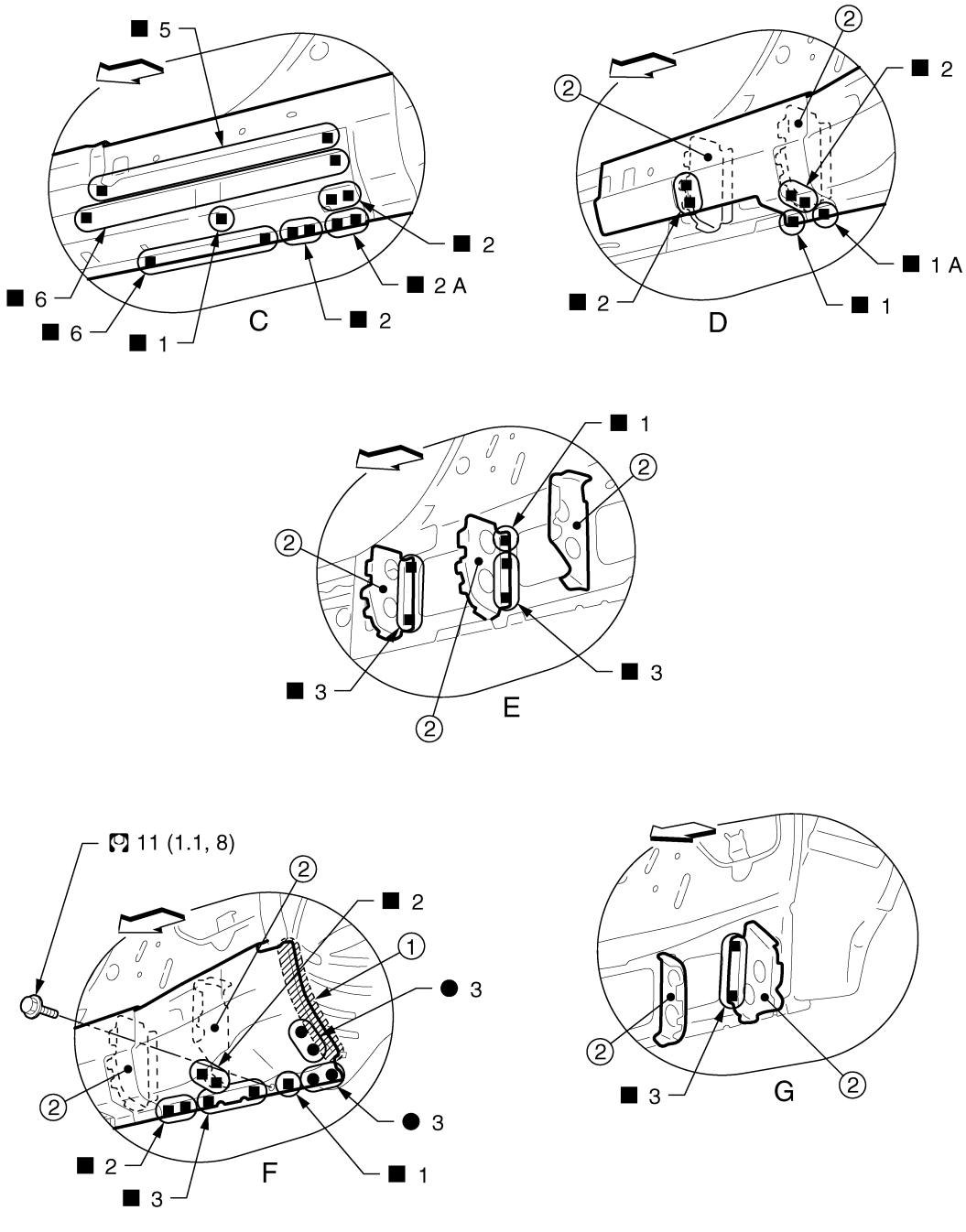
1. Body sealing

Unit: mm (in)

⇦: Vehicle front

Replacement parts

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



JSKIA0921GB

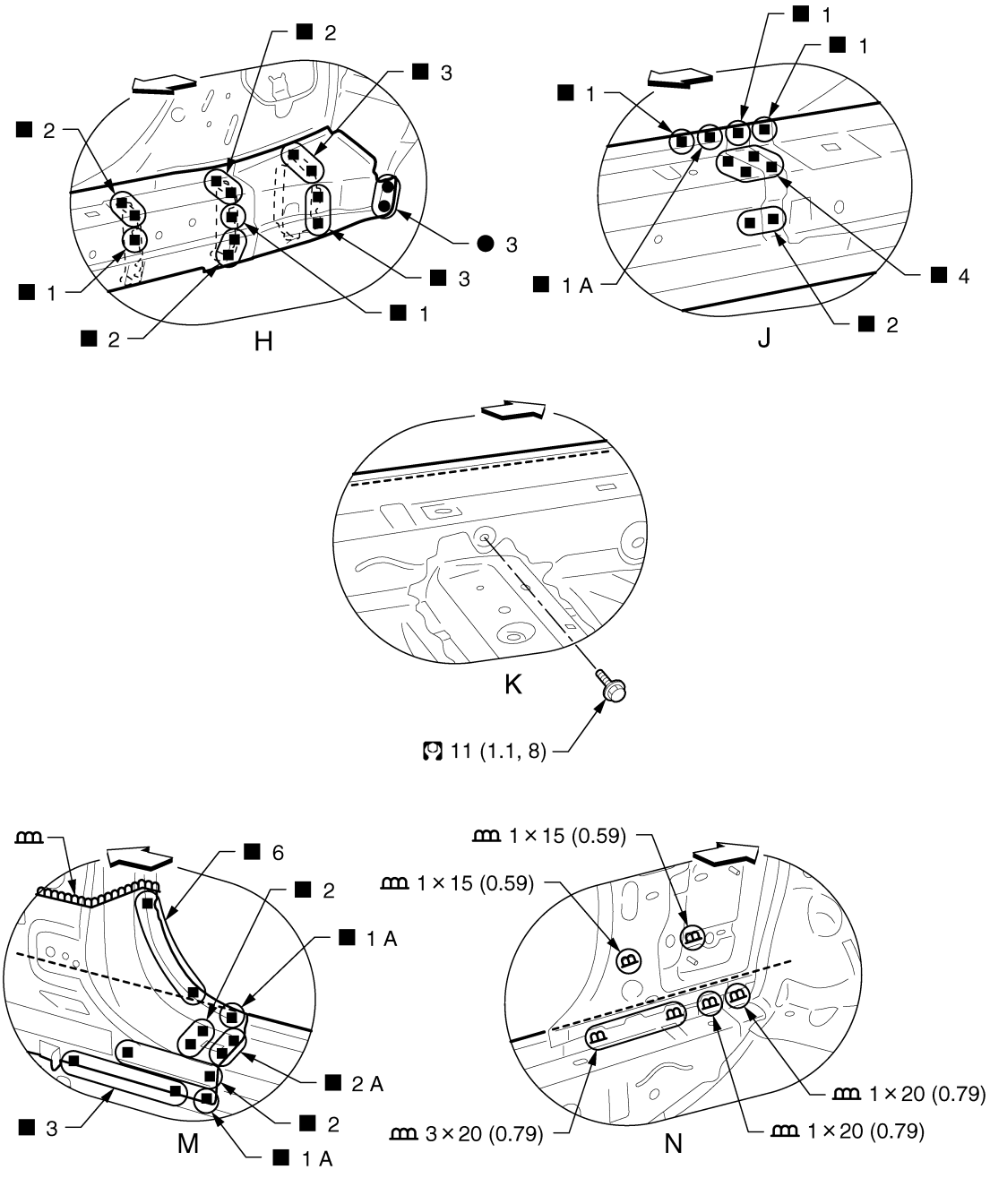
1. Body sealing
2. Outer sill brace

Unit: mm (in)

⇦: Vehicle front

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

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



JSKIA0922GB

Unit: mm (in)

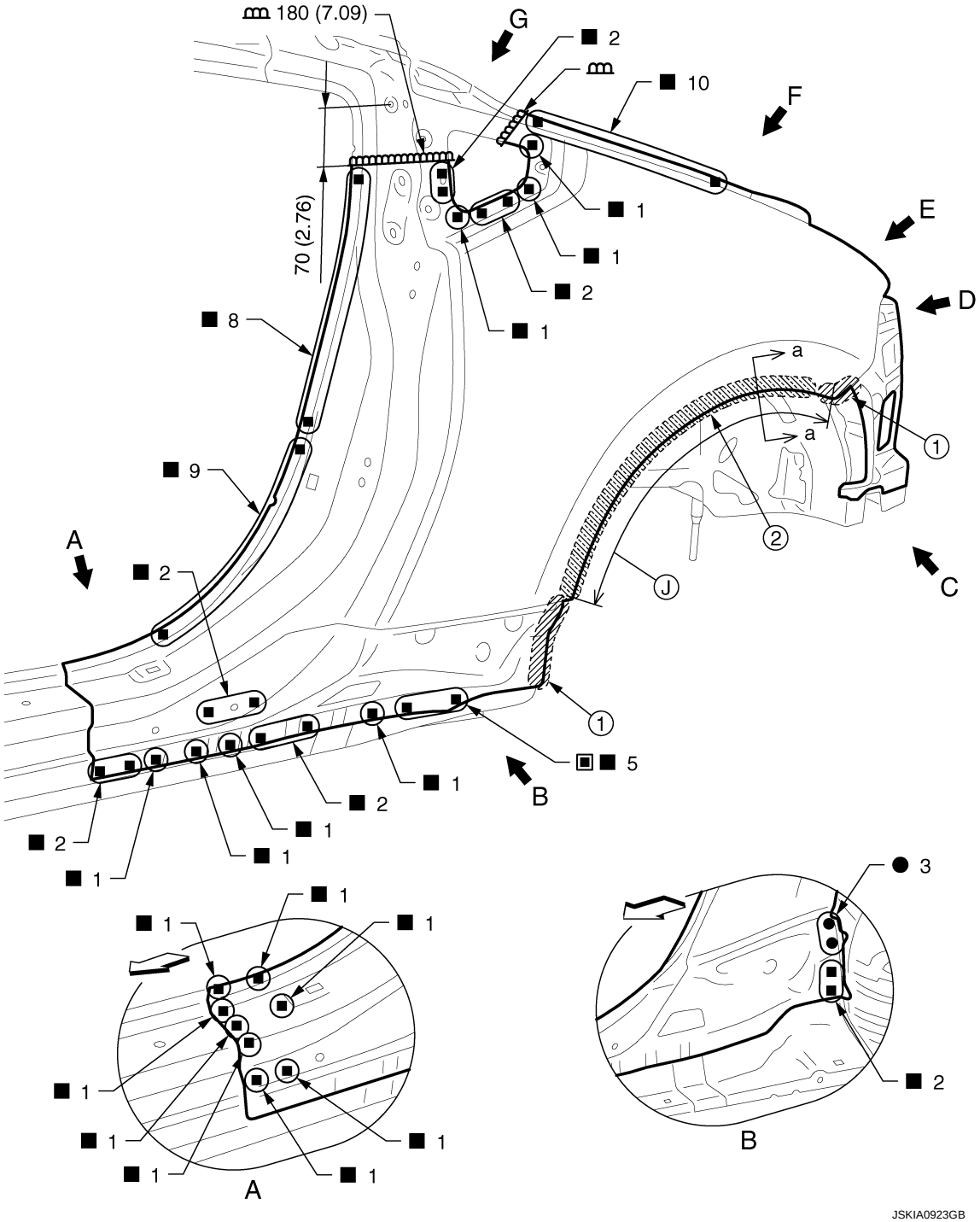
⇦: Vehicle front

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

View H: Before installing outer sill reinforcement

Rear Fender

INFOID:0000000010837608



1. Body sealing
2. Adhesive

J. Hemming portion

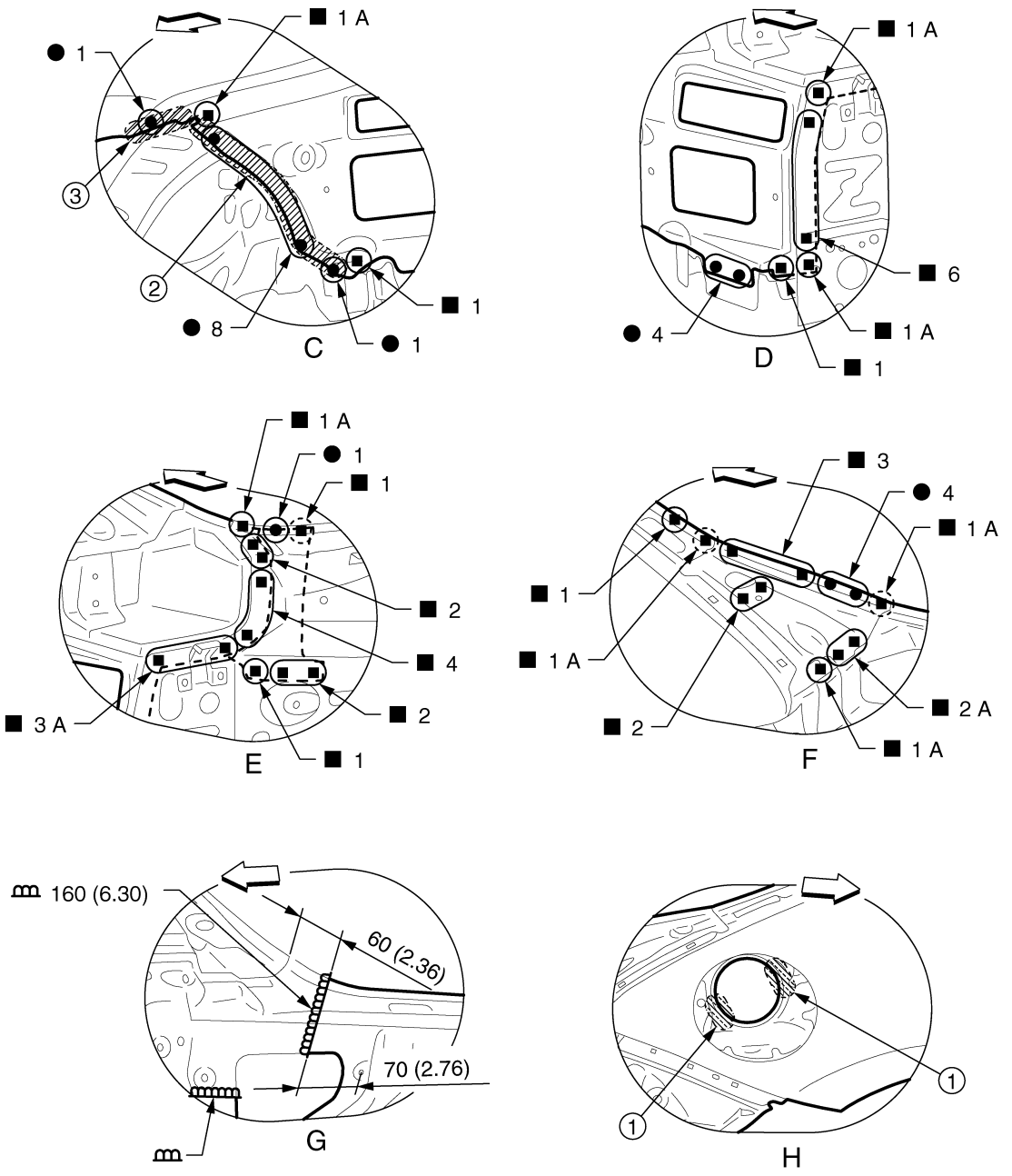
Unit: mm (in)

⇦: Vehicle front

■: Perform the plug welding instead of the laser welding.

Replacement parts

- Rear fender assembly (LH)



JSKIA0924GB

1. Adhesive
2. Body sealing
3. Urethane foam

Unit: mm (in)

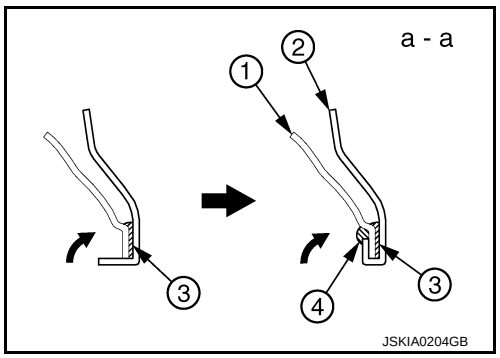
⇦: Vehicle front

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

View H: Right side rear fender

POINT

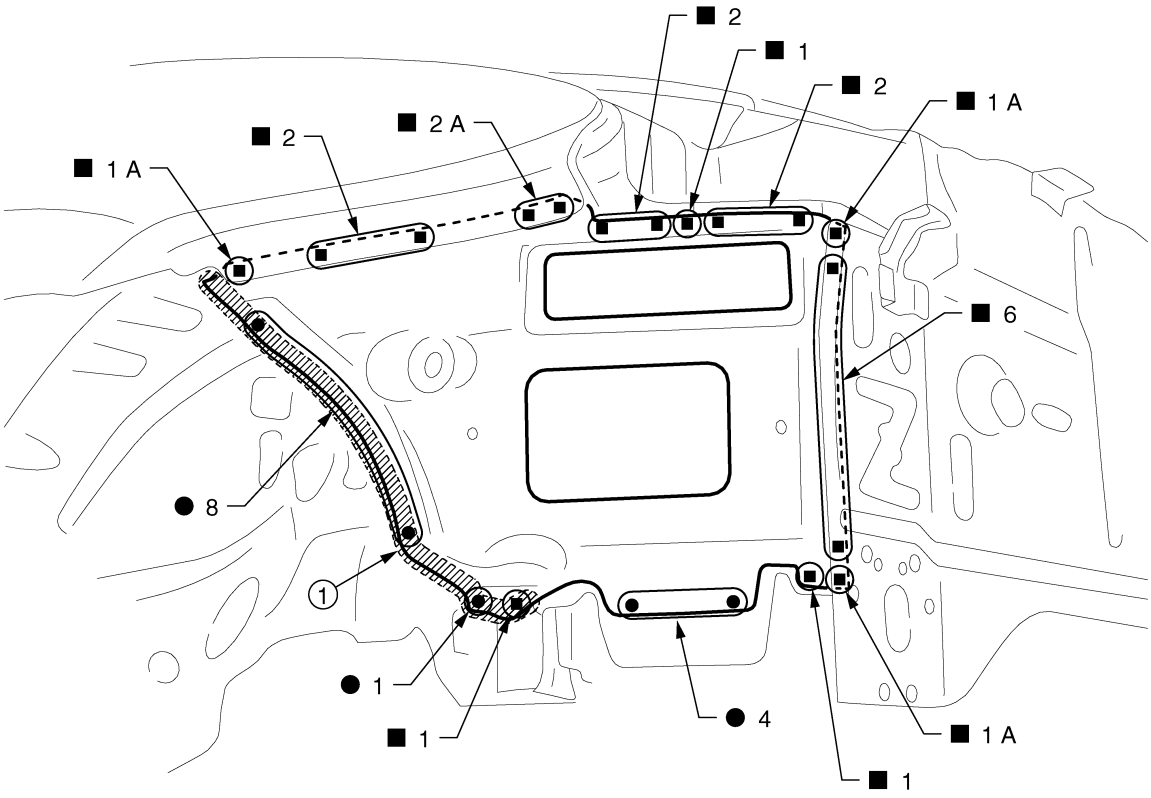
- Perform the hemming to the flange of wheelarch after applying the adhesive.
- Apply the sealing to the flange end.
- Refer to BRM-20, "Rear Fender Hemming Process".



1. **Outer rear wheelhouse**
2. **Rear fender**
3. **Adhesive**
4. **Sealant**

Rear Fender Extension

INFOID:0000000010837609



JSKIA1572ZZ

1. Body sealing

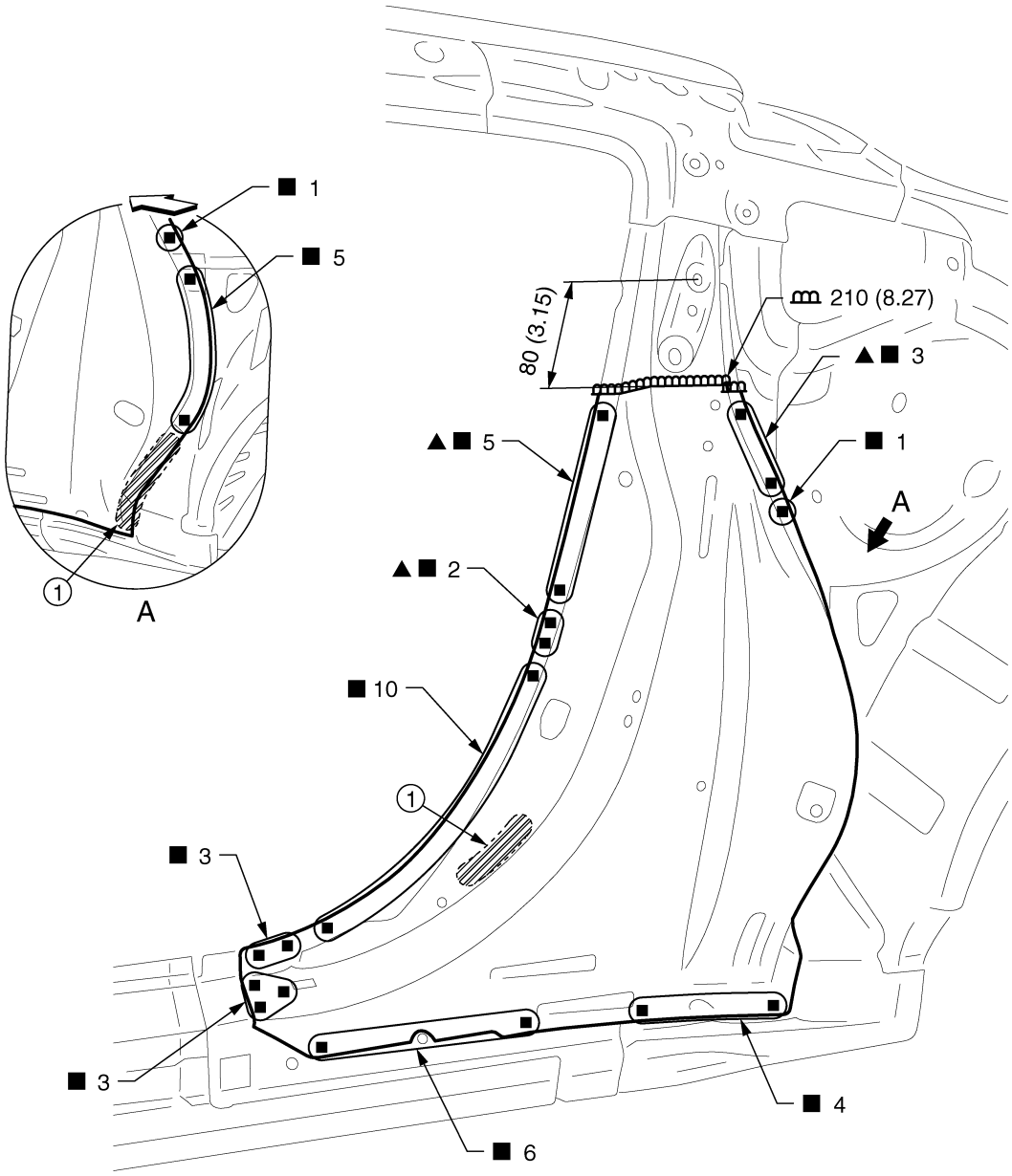
Replacement parts

- Rear fender extension (LH)

Lock Pillar Reinforcement

INFOID:0000000010837610

Work after rear fender is removed.



JSKIA0925GB

1. Urethane foam

Unit: mm (in)

⇦: Vehicle front

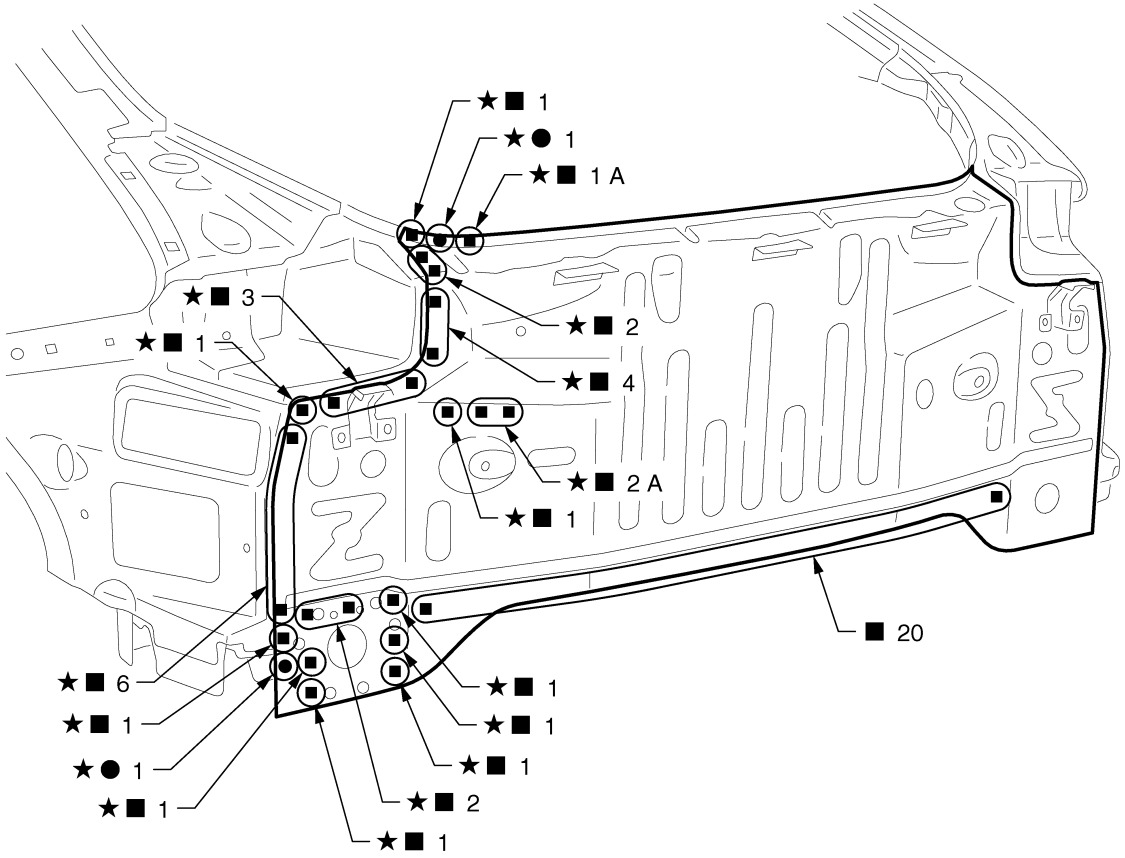
▲: Drill ϕ9 mm (0.35 in) hole for the plug welding hole (ultra high strength steel plate).

Replacement parts

- Lock pillar reinforcement assembly (LH)

Rear Panel

INFOID:0000000010837611



JSKIA0926ZZ

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

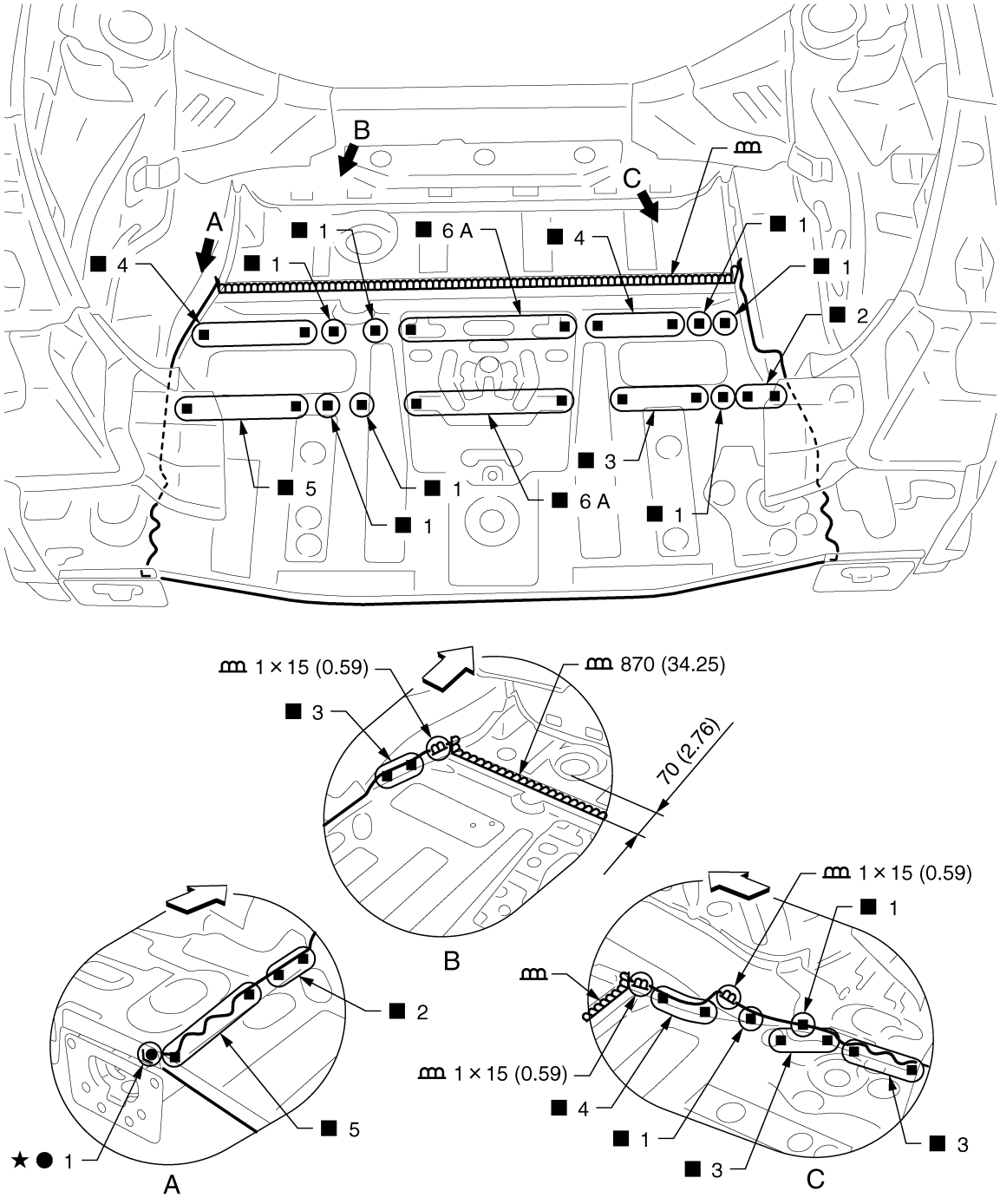
Replacement parts

- Rear panel assembly

Rear Floor Rear

INFOID:0000000010837612

Work after rear panel is removed.



Unit: mm (in)

⇦: Vehicle front

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

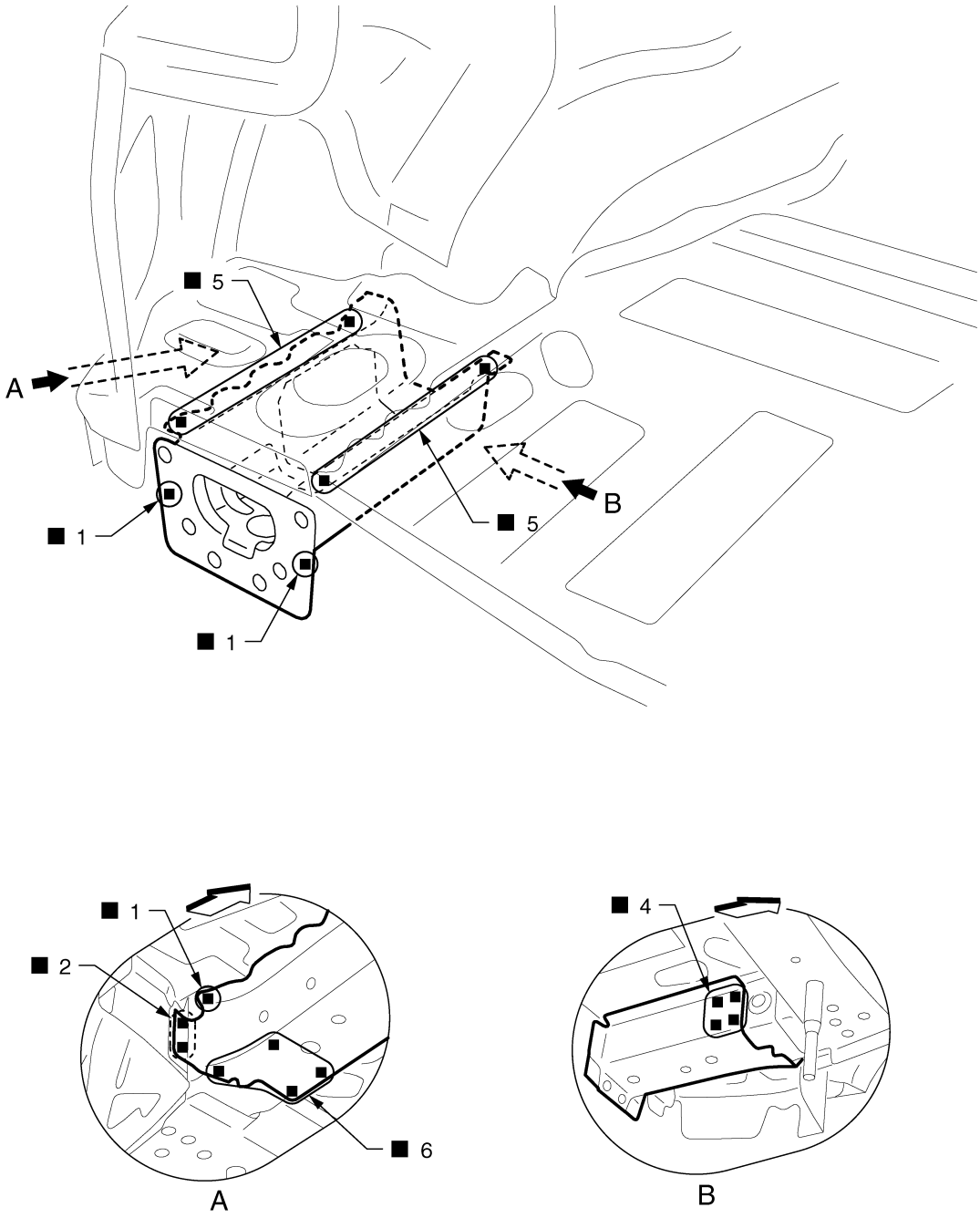
Replacement parts

- Rear floor rear

Rear Side Member Extension

INFOID:0000000010837613

Work after rear panel is removed.



JSKIA0928ZZ

⇦: Vehicle front

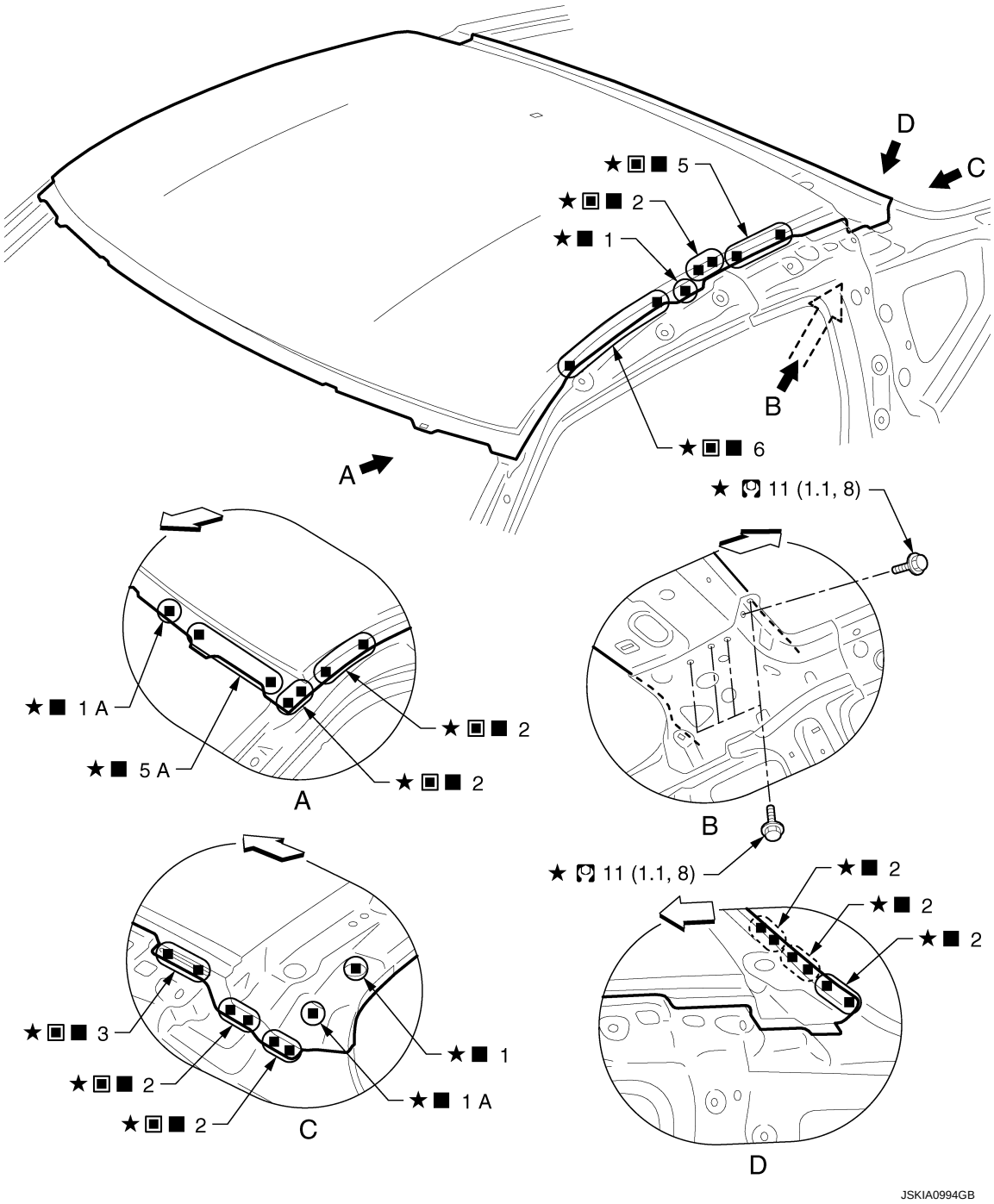
(◌): Weld the parts onto the back of the component part.

Replacement parts

- Rear side member extension (LH)

Roof

INFOID:0000000011351140



⇦: Vehicle front

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

■: Perform the plug welding instead of the laser welding.

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

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

Replacement parts

- Roof

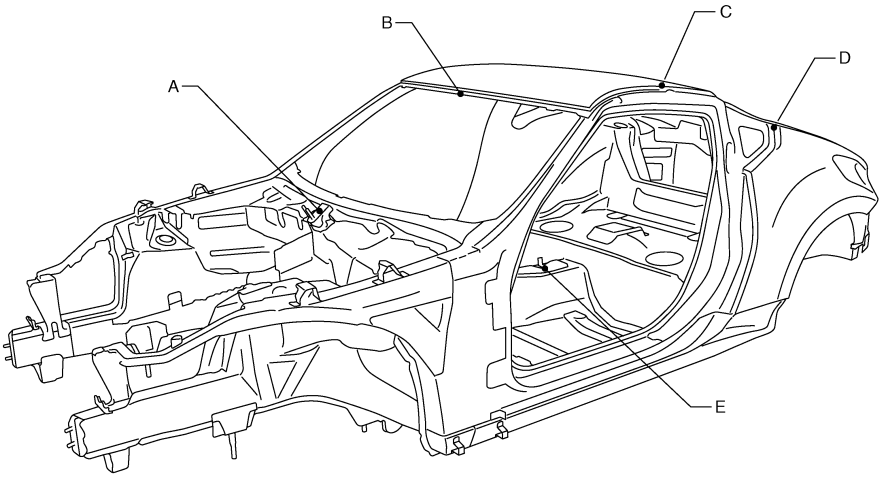
SERVICE DATA AND SPECIFICATIONS (SDS)

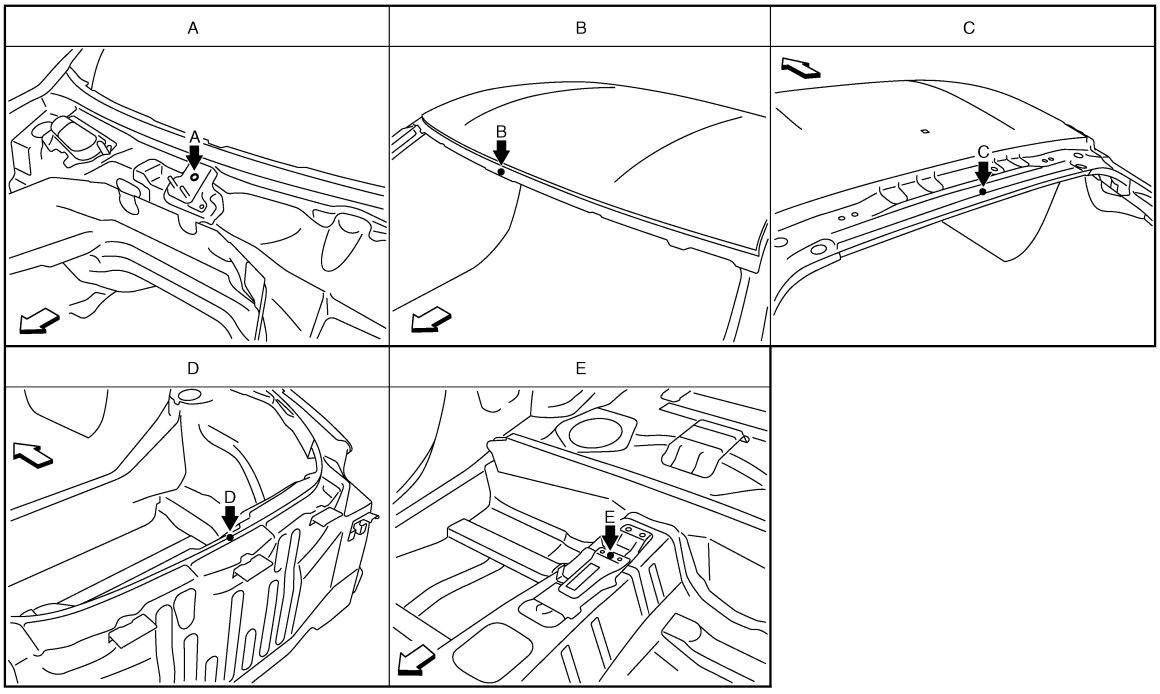
BODY ALIGNMENT

Body Center Marks

INFOID:0000000010837614

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.





JSKIA0883ZZ

⇦: Vehicle front

Unit: mm (in)

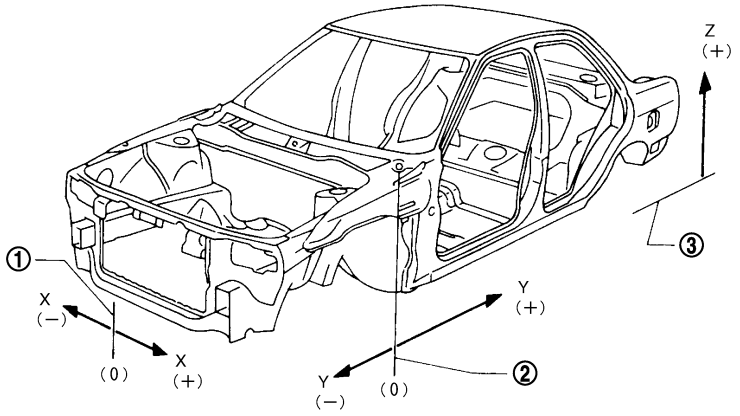
Points	Portion	Marks
A	Upper dash	Hole ϕ8 (0.31)
B	Front roof	Embossment
C	Rear roof	Embossment

Points	Portion	Marks
D	Rear panel	Indent
E	Trans control reinforcement	Embossment

Description

INFOID:0000000010837615

- 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

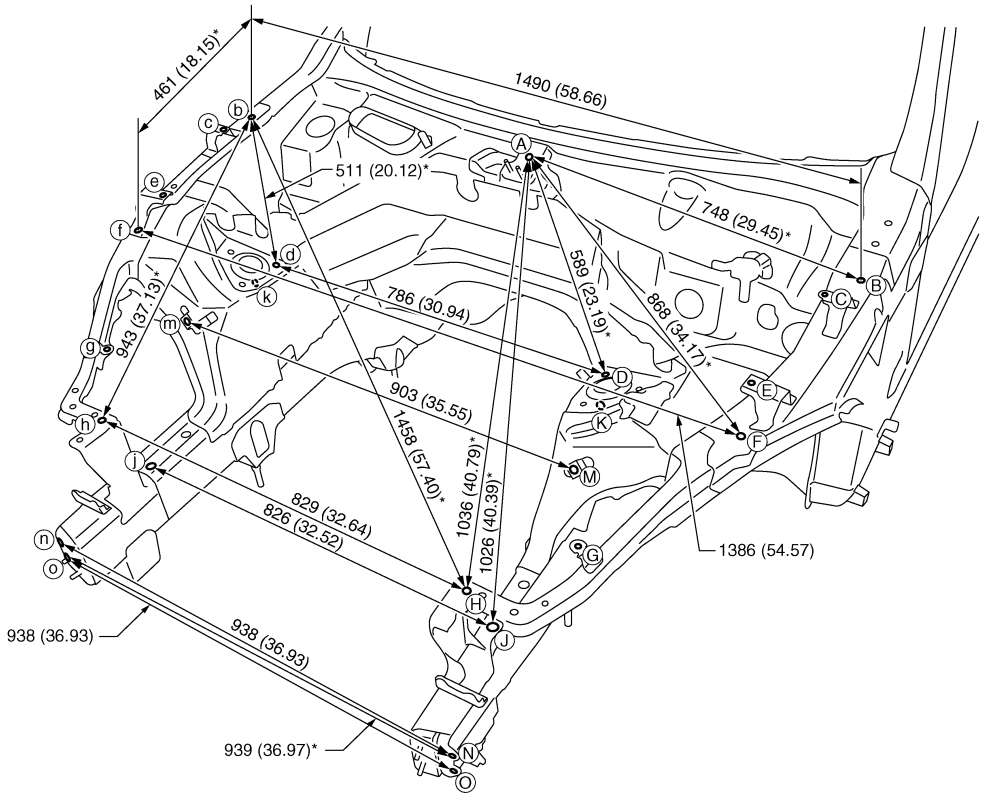
1. Vehicle center
2. Front axle center
3. Imaginary base line

Engine Compartment

INFOID:0000000010837616

MEASUREMENT

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



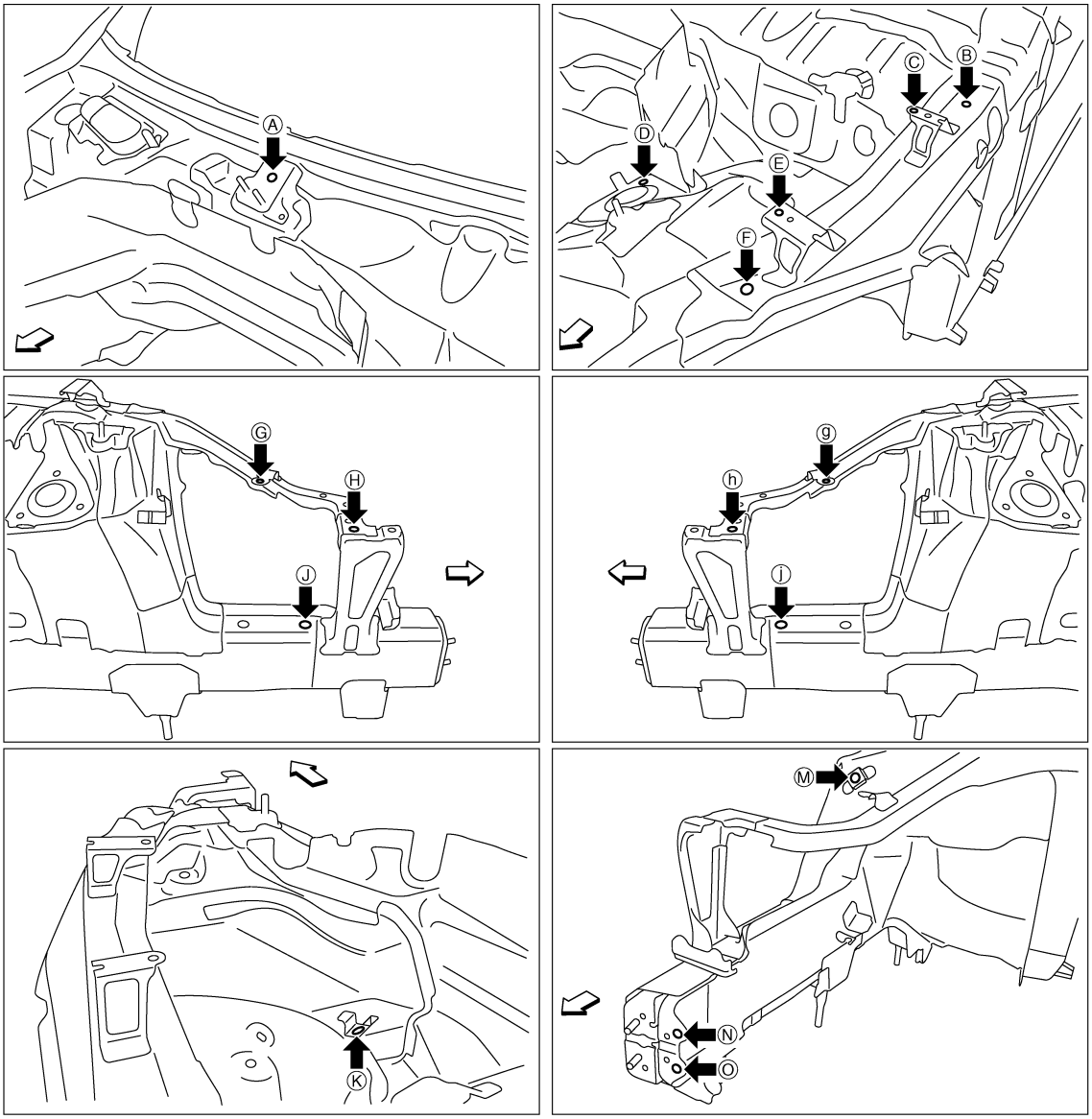
Unit: mm (in)

«The others»

Unit: mm (in)

Point	Dimension	Memo	Point	Dimension	Memo	Point	Dimension	Memo	Point	Dimension	Memo
A - C	735 (28.94)*		B - d	1197 (47.13)*		C - c	1423 (56.02)		F - h	1187 (46.73)*	
A - E	804 (31.65)*		B - E	381 (15.00)*		D - m	875 (34.45)*		G - g	1073 (42.24)	
A - G	967 (38.07)*		B - f	1509 (59.41)*		E - e	1349 (53.11)		K - k	903 (35.55)	
B - C	131 (5.16)*		B - G	767 (30.20)*		F - H	511 (20.12)*				

MEASUREMENT POINTS



JSKIA0885ZZ

⇦: Vehicle front

Unit: mm (in)

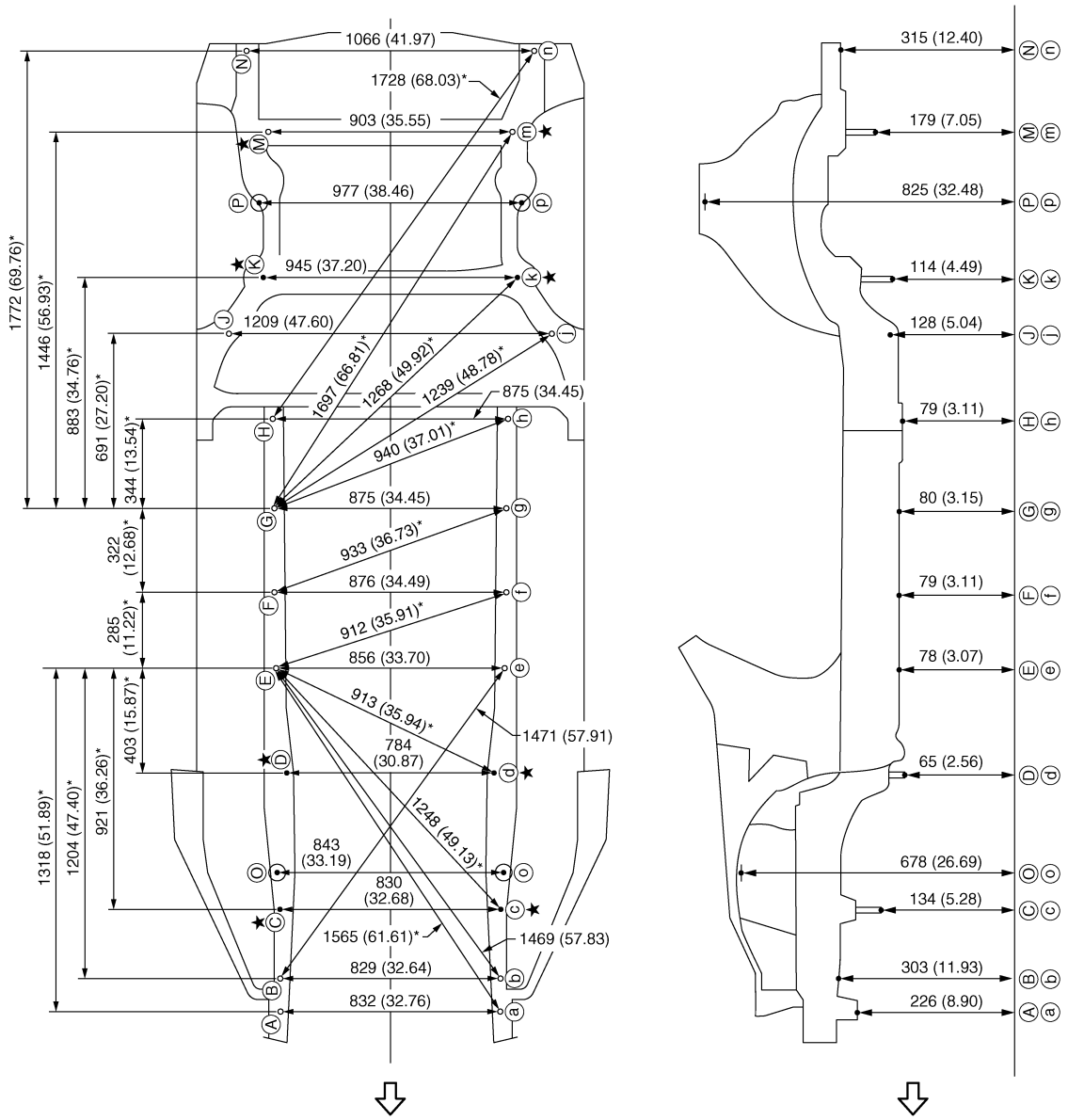
Point	Material	Point	Material
A	Center wiper pivot bracket hole center of center positioning mark ϕ8 (0.31)	H, h	Radiator core support stay hole center ϕ12 (0.47)
B, b, F, f	Hoodledge reinforcement hole center 12×14 (0.47×0.55)	J, j	Front side member hole center ϕ20 (0.79)
C, c, E, e	Front fender installing hole center ϕ7 (0.28)	K, k, M, m	Nut holder hole center ϕ16 (0.63)
D, d	Front strut installing hole center ϕ11 (0.43)	N, n, O, o	Front bumper reinforcement installing hole center ϕ11 (0.43)
G, g	Rear air cleaner bracket hole center ϕ7 (0.28)		

Underbody

INFOID:0000000010837617

MEASUREMENT

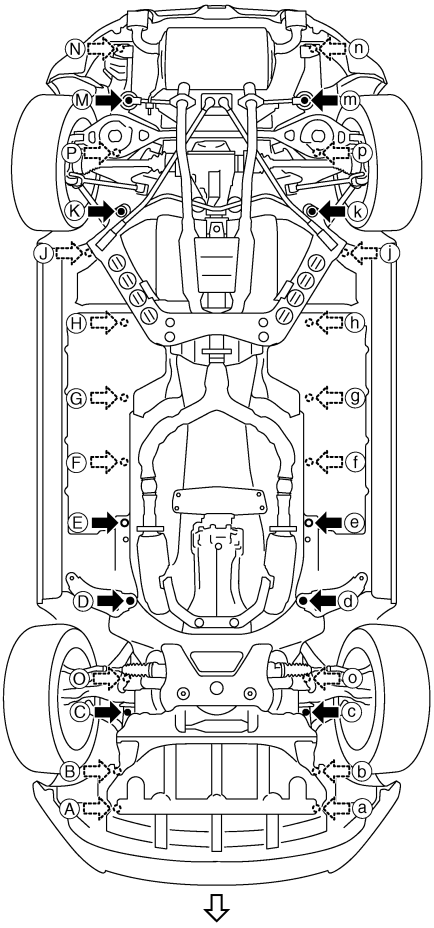
Dimensions marked with "*" indicate symmetrically identical dimensions on both the right and left hand of the vehicle.
The following figure shows a bottom view and a side view of the vehicle.

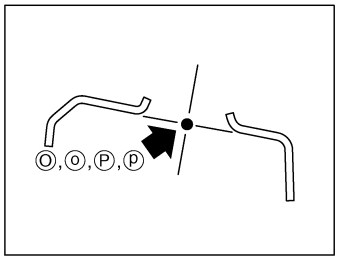


JSKIA0886GB

Unit: mm (in)
⇦: Vehicle front
★: Bolt head

MEASUREMENT POINTS





JSKIA0887ZZ

⇦: Vehicle front

Unit: mm (in)

Points	Coordinates			Remarks	Points	Coordinates			Remarks
	X	Y	Z			X	Y	Z	
A, a	±415.8 (±16.370)	–495.0 (–19.488)	225.6 (8.882)	Hole ϕ13 (0.51)	H, h	±437.5 (±17.224)	1765.5 (69.508)	79.0 (3.110)	Hole ϕ8 (0.31)
B	416.2 (16.386)	–368.0 (–14.488)	303.2 (11.937)	Hole ϕ16 (0.63)	J, j	±604.5 (±23.799)	2090.5 (82.303)	128.3 (5.051)	Hole ϕ16 (0.63)
b	–413.2 (–16.268)	–368.0 (–14.488)	303.2 (11.937)	Hole ϕ16 (0.63)	K, k	±472.6 (±18.606)	2303.8 (90.701)	114.0 (4.488)	Bolt head
C, c	±415.0 (±16.339)	–104.0 (–4.094)	133.5 (5.256)	Bolt head	M, m	±451.5 (±17.776)	2863.9 (112.752)	179.1 (7.051)	Bolt head
D, d	±392.0 (±15.433)	414.0 (16.299)	64.5 (2.539)	Bolt head	N, n	±533.0 (±20.984)	3175.0 (125.000)	315.4 (12.417)	Hole ϕ16 (0.63)
E, e	±428.0 (±16.850)	815.0 (32.087)	78.4 (3.087)	Hole 16×20 (0.63×0.79)	O, o	±421.6 (±16.598)	38.2 (1.504)	677.9 (26.689)	Hole ϕ50.1 (1.972)

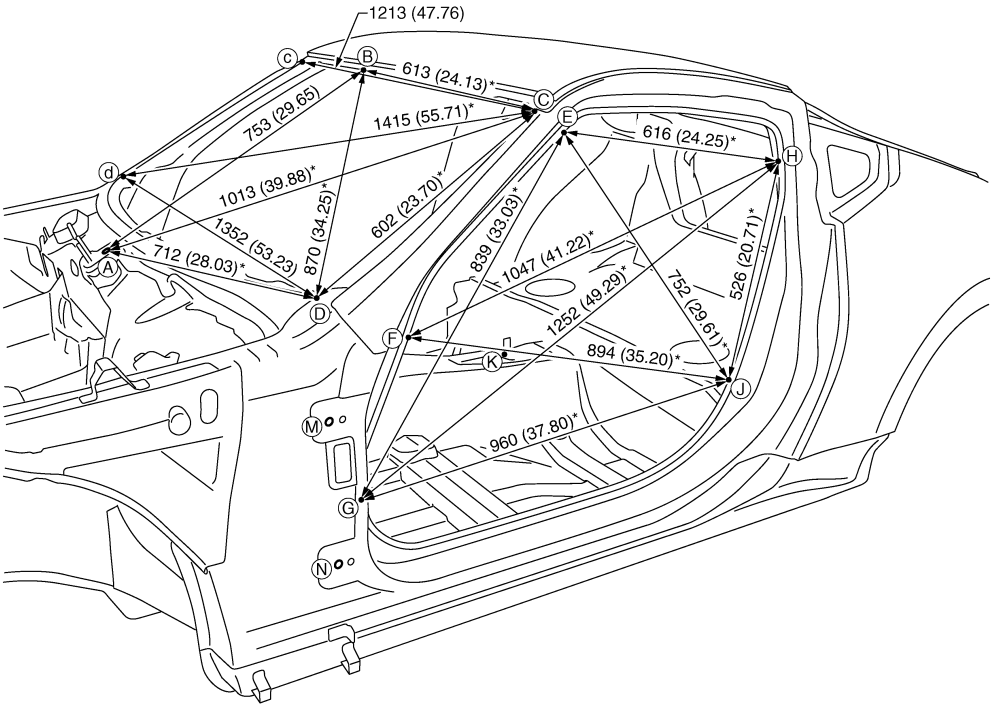
Points	Coordinates			Remarks	Points	Coordinates			Remarks
	X	Y	Z			X	Y	Z	
F, f	±438.0 (±17.244)	1100.0 (43.307)	79.0 (3.110)	Hole ϕ16 (0.63)	P, p	±488.4 (±19.228)	2591.7 (102.035)	825.0 (32.480)	Hole ϕ68 (2.68)
G, g	±437.5 (±17.224)	1421.8 (55.976)	80.0 (3.150)	Hole ϕ8 (0.31)					

Passenger Compartment

INFOID:0000000010837618

MEASUREMENT

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



JSKIA0888GB

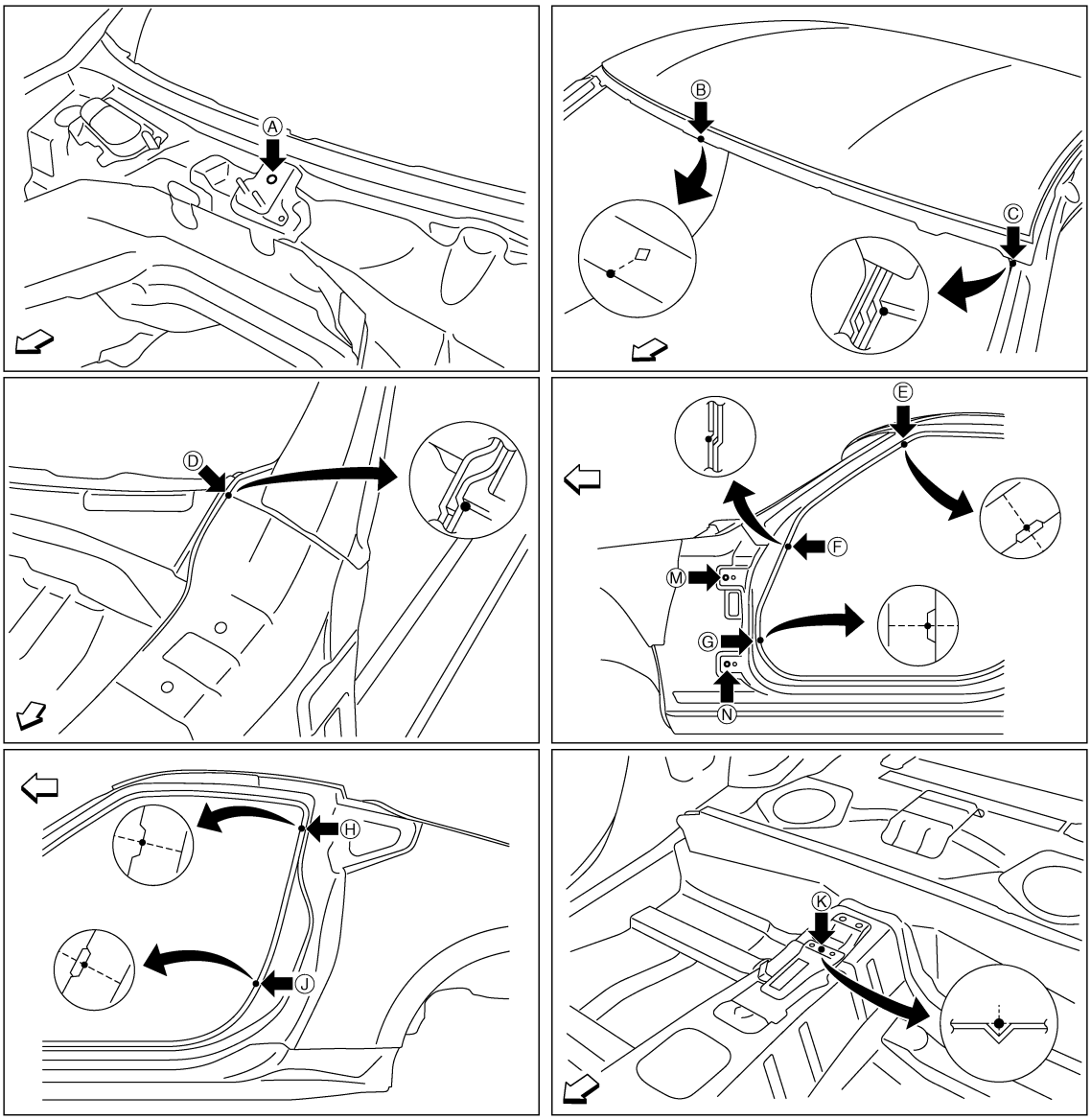
Unit: mm (in)

«The others»

Unit: mm (in)

Point	Dimension	Memo	Point	Dimension	Memo	Point	Dimension	Memo	Point	Dimension	Memo
E - e	1276 (50.24)		F - j	1713 (67.44)*		J - j	1471 (57.91)		M - m	1615 (63.58)	
E - g	1599 (62.95)*		G - g	1452 (57.17)		K - E	1024 (40.31)*		M - H	1273 (50.12)*	
E - h	1449 (57.05)*		G - h	1877 (73.90)*		K - F	1094 (43.07)*		M - J	1074 (42.28)*	
E - j	1563 (61.54)*		G - j	1749 (68.86)*		K - G	1095 (43.11)*		N - n	1649 (64.92)	
F - f	1452 (57.17)		H - h	1348 (53.07)		K - H	978 (38.50)*		N - H	1376 (54.17)*	
F - h	1748 (68.82)*		H - j	1504 (59.21)*		K - J	763 (30.04)*		N - J	1071 (42.17)*	

MEASUREMENT POINTS



JSKIA0889ZZ

⇦: Vehicle front

Unit: mm (in)

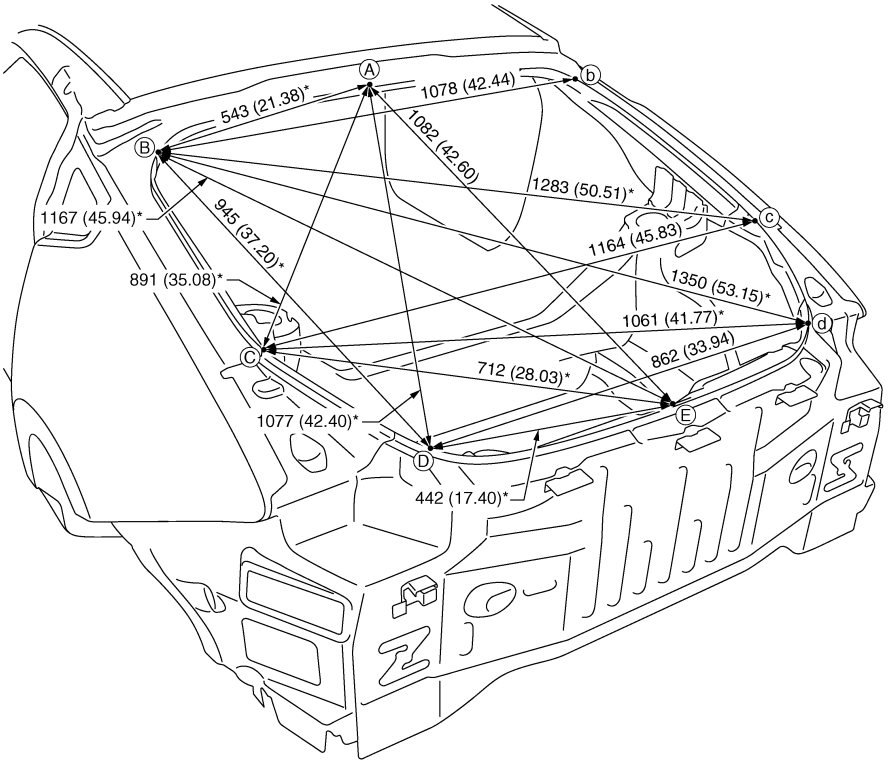
Point	Material	Point	Material
A	Center wiper pivot bracket hole center of center positioning mark ϕ8 (0.31)	G, g	Front pillar hinge brace indent
B	Roof flange end of center positioning mark	H, h, J, j	Rear fender indent
C, c	Front pillar joggle	K	Trans control reinforcement positioning mark of center positioning mark
D, d, F, f	Front pillar hinge brace joggle	M, m, N, n	Door hinge installing hole center ϕ12 (0.47)
E, e	Front pillar indent		

Rear Body

INFOID:0000000010837619

MEASUREMENT

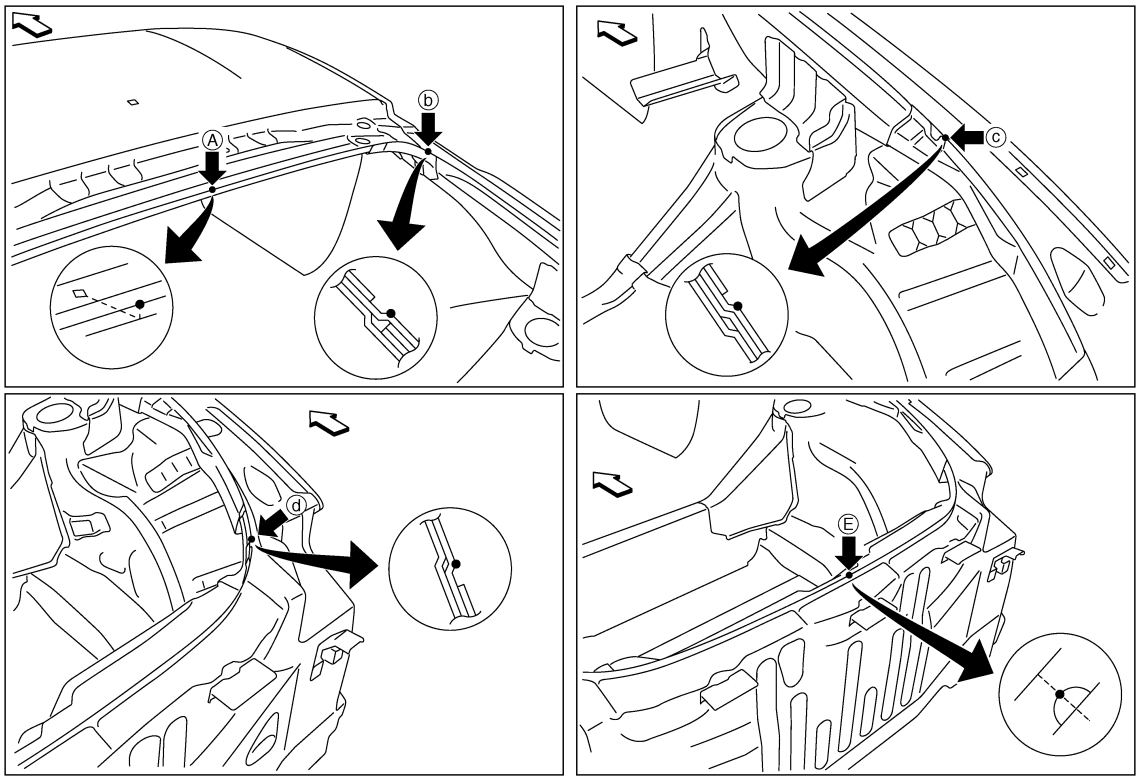
Dimensions marked with "*" indicate symmetrically identical dimensions on both the right and left hand of the vehicle.



JSKIA0890GB

Unit: mm (in)

MEASUREMENT POINTS



JSKIA0891ZZ

⇦: Vehicle front

Point	Material	Point	Material
A	Roof flange end of center positioning mark	D, d	Rear combination lamp base joggle
B, b	Rear fender joggle	E	Upper rear panel reinforcement indent of center positioning mark
C, c	Rear combination lamp base extension joggle		

LOCATION OF PLASTIC PARTS

Precautions for Plastics

INFOID:0000000010837620

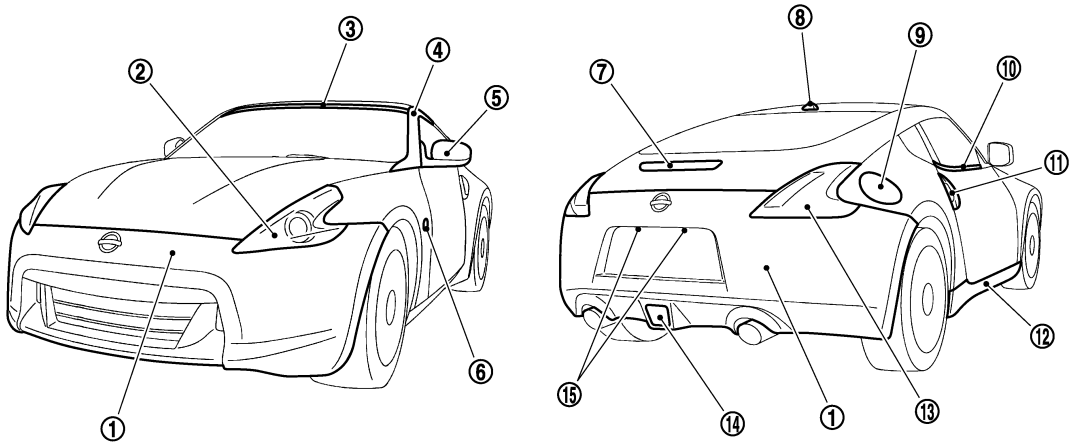
Abbre-viation	Material name	Heat resisting temperature °C (°F)	Resistance to gasoline and solvents	Other cautions
PE	Polyethylene	60 (140)	Gasoline and most solvents are harmless if applied for a very short time (wipe out quickly).	Flammable
ABS	Acrylonitrile Butadiene Styrene	80 (176)	Avoid gasoline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

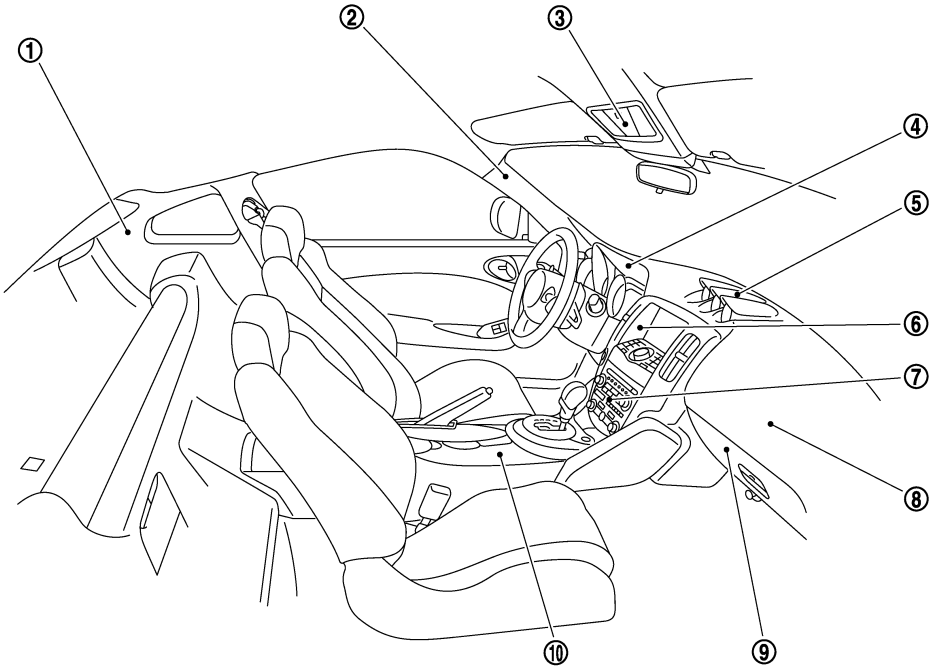
Location of Plastic Parts

INFOID:0000000010837621



JSKIA0902ZZ

Component			Material	Component			Material
1	Bumper fascia		PP + EPM	8	Satellite radio antenna		ASA + PC
2	Front combination lamp	Lens	PC	9	Fuel filler lid		PA + PPE
		Housing	PP	10	Door outside molding		PVC + Stainless
3	Upper windshield molding		TPO	11	Door outside handle		PC + ABS
4	Front pillar finisher		PC + PET	12	Center mudguard		PP + EPM
5	Door outside mirror	Cover	ABS	13	Rear combination lamp	Lens	PMMA
		Housing	ASA			Housing	PP
		Base	PA + Glass fiber	14	Rear fog lamp	Lens	PMMA
6	Side turn signal lamp	Lens	PMMA			Housing	ABS
		Housing	ABS	15	License plate lamp	Lens	PMMA
7	High mount stop lamp	Lens	PMMA			Housing	PC
		Housing	ASA				



JSKIA0903ZZ

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

HOW TO USE THIS MANUAL

APPLICATION NOTICE

Information

INFOID:0000000010837622

Check the vehicle type to use the service information in this section.

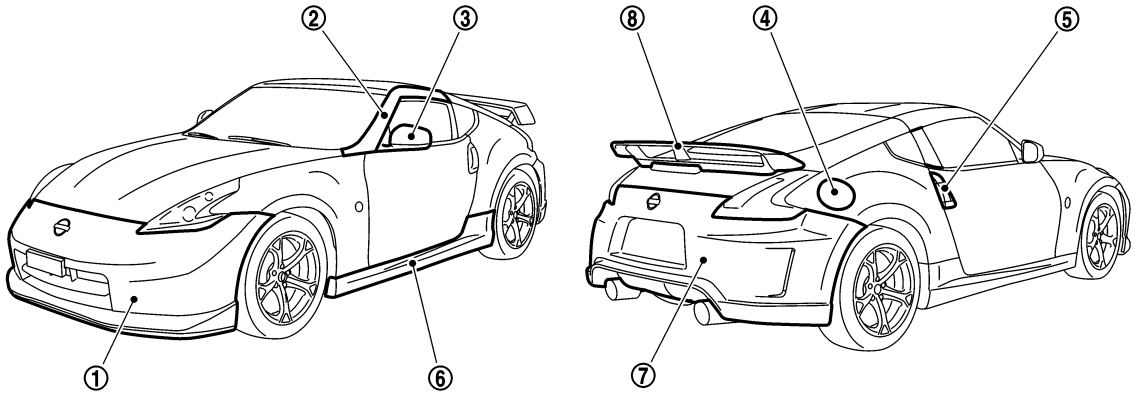
Service information	Destination
TYPE 1	COUPE (REGULAR GRADE FOR USA AND CANADA)
TYPE 2	COUPE (Nismo 370Z)
TYPE 3	ROADSTER (FOR USA AND CANADA)
TYPE 4	COUPE (FOR MEXICO)

SPEC CHANGE INFORMATION

BODY EXTERIOR PAINT COLOR

Body Exterior Paint Color (NISMO models)

INFOID:0000000010837623



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Component			Color code	BA54	BG41	BK23	BQAB
			Description	Red	Black	Silver	White
			Paint type note	3S	2P	2M	3P
			Anti scratch advanced paint	×	×	–	–
①	Front bumper with aerodynamic splitter fascia		Body color	BA54	BG41	BK23	BQAB
			Dark gray	BKBH	BKBH	BKBH	BKBH
②	Front pillar finisher		Body color	BA54	BG41	BK23	BQAB
③	Door outside mirror	Cover	Dark gray	BKBH	BKBH	BKBH	BKBH
④	Fuel filler lid		Body color	BA54	BG41	BK23	BQAB
⑤	Door outside handle and escutcheon		Velour chro-mium plate	Cr2p	Cr2p	Cr2p	Cr2p
⑥	Side sill extensions		Body color	BA54	BG41	BK23	BQAB
			Dark gray	BKBH	BKBH	BKBH	BKBH
⑦	Rear bumper with aerodynamic diffuser fascia		Body color	BA54	BG41	BK23	BQAB
			Dark gray	BKBH	BKBH	BKBH	BKBH
⑧	Rear spoiler		Body color	BA54	BG41	BK23	BQAB
			Dark gray	BKBH	BKBH	BKBH	BKBH

NOTE:

- 2M: 2-Coat metallic
- 2P: 2-Coat pearl
- 3P: 3-Coat pearl
- 3S: 3-Coat solid

REMOVAL AND INSTALLATION

HANDLING PRECAUTIONS

Precautions for Plastics

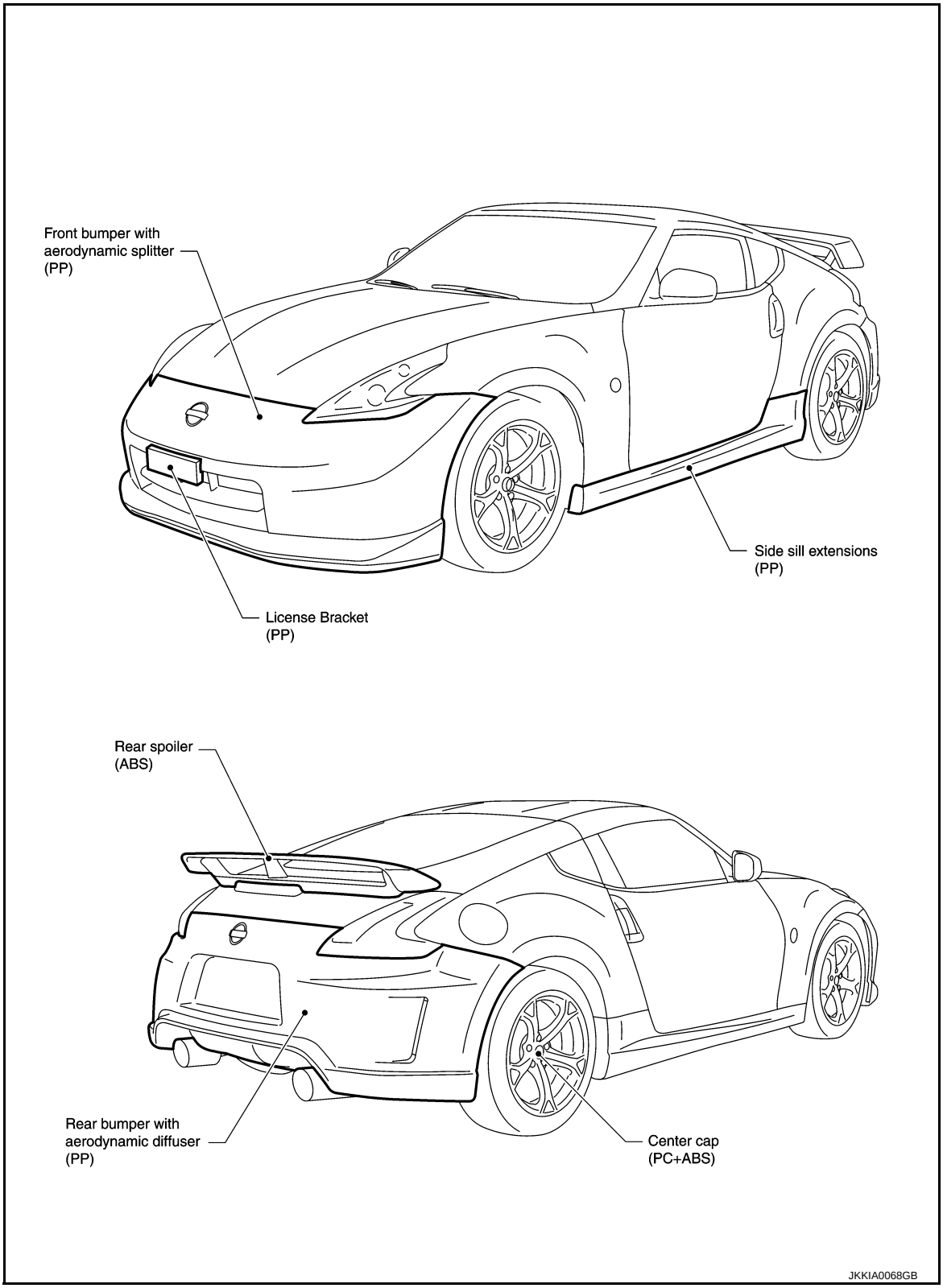
INFOID:0000000010837624

Abbreviation	Material name	Heat resistingTemperature°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 up quickly).	Flammable
PVC	Poly Vinyl Chloride	80 (176)	Same as above.	Poison gas is emitted when burned.
EPM/EPDM	Ethylene Propylene (Diene) copolyMer	80 (176)	Same as above.	Flammable
PP	Polypropylene	90 (194)	Same as above.	Flammable,avoid battery acid.
UP	Unsaturated Polyester	90 (194)	Same as above.	Flammable
PS	Polystyrene	80 (176)	Avoid solvents.	Flammable
ABS	Acrylonitrile Butadiene Styrene	80 (176)	Avoid gasoline and solvents.	
AES	Acrylonitrile Ethylene Styrene	80 (176)	Same as above.	
PMMA	Poly Methyl Methacrylate	85 (185)	Same as above.	
EVAC	Ethylene Vinyl Acetate	90 (194)	Same as above.	
ASA	Acrylonitrile Styrene Acrylate	100 (222)	Same as above.	Flammable
PPE	Poly Phenylene Ether	110 (230)	Same as above.	
PC	Polycarbonate	120 (248)	Same as above.	
PAR	Polyarylate	180 (356)	Same as above.	
PUR	Polyurethane	90 (194)	Same as above.	
POM	Poly Oxymethylene	120 (248)	Same as above.	Avoid battery acid.
PBT+PC	Poly Butylene Terephthalate + Polycarbonate	120 (248)	Same as above.	Flammable
PA	Polyamide	140 (284)	Same as above.	Avoid immersing in water.
PBT	Poly Butylene Terephthalate	140 (284)	Same as above.	
PET	Polyethylene Terephthalate	180 (356)	Same as above.	
PEI	Polyetherimide	200 (392)	Same as above.	

1. 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.
2. Plastic parts should be repaired and painted using methods suiting the materials, characteristics.

Location of Plastic Parts (NISMO models)

INFOID:0000000010837625



HOW TO USE THIS MANUAL

APPLICATION NOTICE

Information

INFOID:0000000010837626

Check the vehicle type to use the service information in this section.

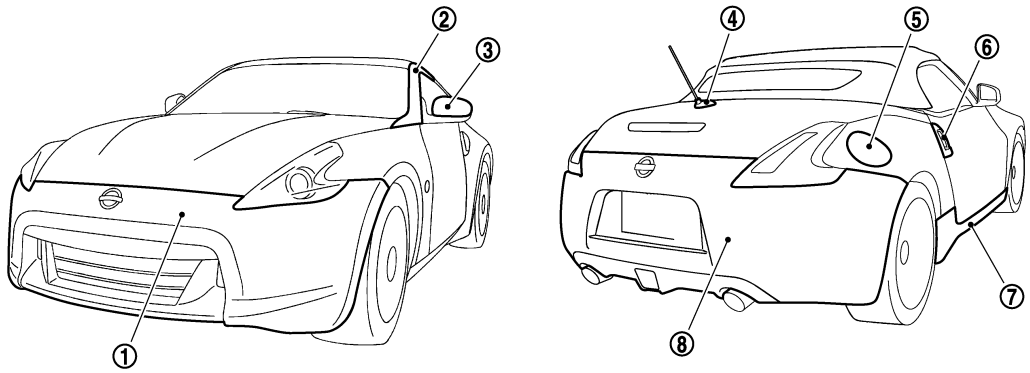
Service information	Destination
TYPE 1	COUPE (REGULAR GRADE FOR USA AND CANADA)
TYPE 2	COUPE (Nismo 370Z)
TYPE 3	ROADSTER (FOR USA AND CANADA)
TYPE 4	COUPE (FOR MEXICO)

VEHICLE INFORMATION

BODY EXTERIOR PAINT COLOR

Body Exterior Paint Color

INFOID:0000000010837627



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Component			Color code	BA54	BG41	BK23	BKAD	BNAG	BNAM	BQAB	BRAA
			Description	Red	Black	Silver	Gray	Dark Red	Red	White	Dark Blue
			Paint type [note]	3S	2P	2M	2M	2P	2PM	3P	2P
			Anti scratch advanced paint	×	×	–	–	×	×	–	×
①	Front bumper fascia	Body	Body color	BA54	BG41	BK23	BKAD	BNAG	BNAM	BQAB	BRAA
		Grille	Material color	–	–	–	–	–	–	–	–
②	Front pillar finisher		Body color	BA54	BG41	BK23	BKAD	BNAG	BNAM	BQAB	BRAA
③	Door outside mirror	Cover	Body color	BA54	BG41	BK23	BKAD	BNAG	BNAM	BQAB	BRAA
④	Antenna base cover		Body color	BA54	BG41	BK23	BKAD	BNAG	BNAM	BQAB	BRAA
⑤	Fuel filler lid		Body color	BA54	BG41	BK23	BKAD	BNAG	BNAM	BQAB	BRAA
⑥	Door outside handle and escutcheon		Velour chromium plate	Cr2p	Cr2p	Cr2p	Cr2p	Cr2p	Cr2p	Cr2p	Cr2p
⑦	Center mudguard		Body color	BA54	BG41	BK23	BKAD	BNAG	BNAM	BQAB	BRAA
⑧	Rear bumper fascia		Body color	BA54	BG41	BK23	BKAD	BNAG	BNAM	BQAB	BRAA

NOTE:

- 2M: 2-Coat metallic
- 2P: 2-Coat pearl
- 3P: 3-Coat pearl
- 3S: 3-Coat solid
- 2PM: 2-Coat pearl metallic

PRECAUTION

REPAIRING HIGH STRENGTH STEEL

High Strength Steel (HSS)

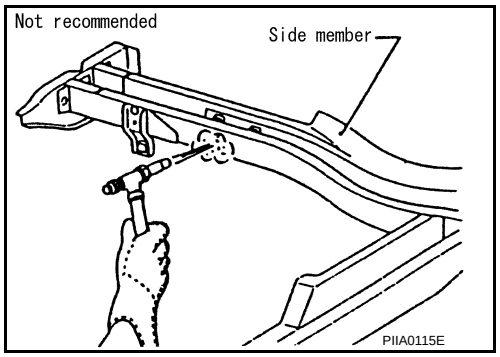
INFOID:0000000010837628

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
370 - 590 MPa	• Front strut housing • Upper front hoodledge • Upper rear hoodledge • Hoodledge reinforcement • Lower dash crossmember assembly • Lower dash • Center front floor (Component part) • Front floor (Component part) • Rear seat crossmember reinforcement assembly • Front side member assembly • Front side member closing plate assembly • Front side member outrigger assembly • Rear seat crossmember • Rear side member assembly • Upper front pillar reinforcement • Lock pillar reinforcement assembly • Outer sill reinforcement • Front roof rail • Other reinforcements
780 - 1350 MPa	• Inner sill • Stiffener front side member (Front floor component part) • Front side member rear extension

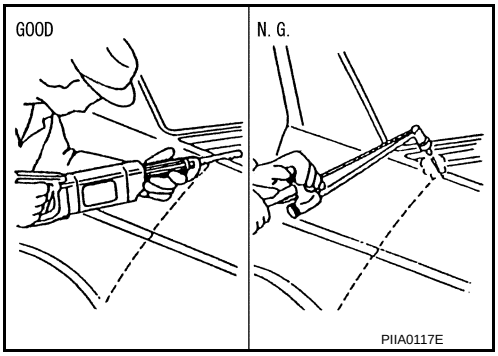
Read the following precautions when repairing HSS:

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.)

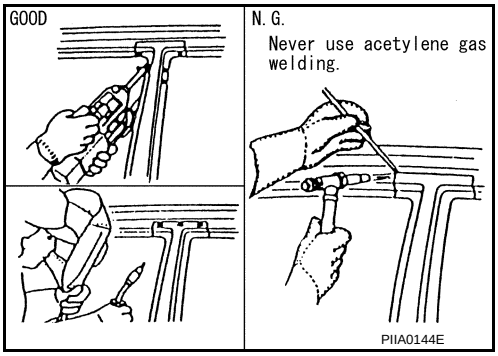


   - When straightening body panels, use caution in pulling any HSS panel. Because HSS is very strong, pulling may cause deformation in adjacent sections of the body. In this case, increase the number of measuring points, and carefully pull the HSS panel.

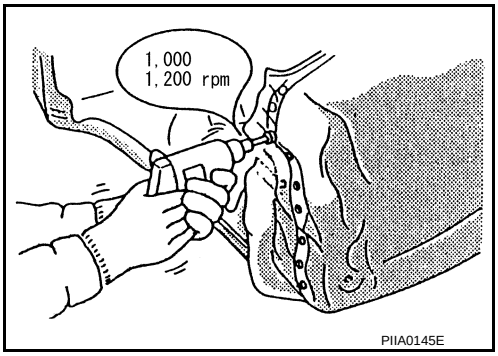
- When cutting HSS panels, avoid gas (torch) cutting if possible. Instead, use a saw to avoid weakening surrounding areas due to heat. If gas (torch) cutting is unavoidable, allow a minimum margin of 50 mm (1.97 in).



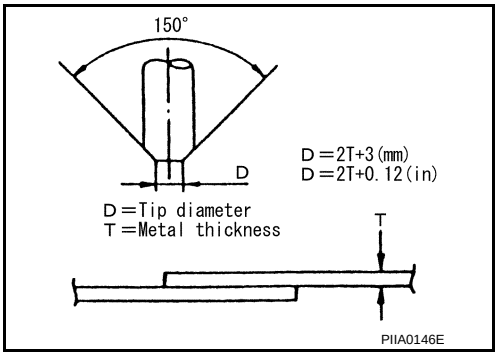
- When welding HSS panels, use spot welding whenever possible in order to minimize weakening surrounding areas due to heat.
  If spot welding is impossible, use MIG. welding. Do not use gas (torch) for welding because it is inferior in welding strength.



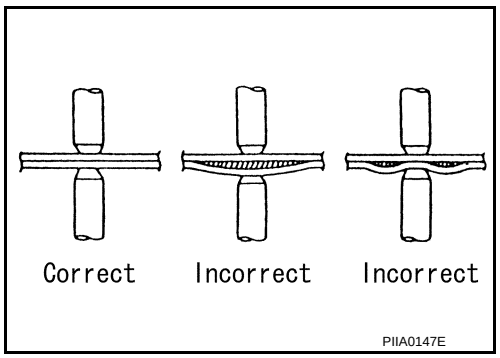
- Spot welding on HSS panels is harder than that of an ordinary steel panel.
  Therefore, when cutting spot welds on a HSS panel, use a low speed high torque drill (1,000 to 1,200 rpm) to increase drill bit durability and facilitate the operation.



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.



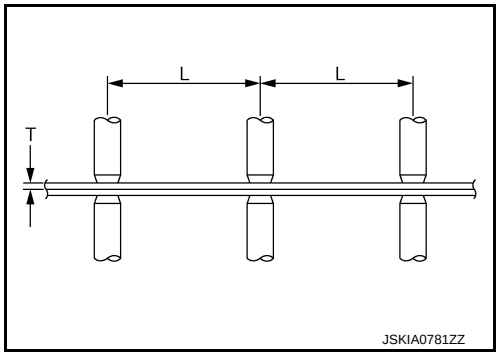
- The panel surfaces must fit flush to each other, leaving no gaps.



- 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:0000000010837629

PROHIBITION OF CUT AND CONNECTION

Never cut and Joint the stiffener front side member (front floor inside frame parts) because its material is high strength steel plate (ultra high strength steel plate).
The front floor assembly must be replaced if this part is damaged.

PREPARATION

REPAIRING MATERIAL

Foam Repair

INFOID:0000000010837630

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

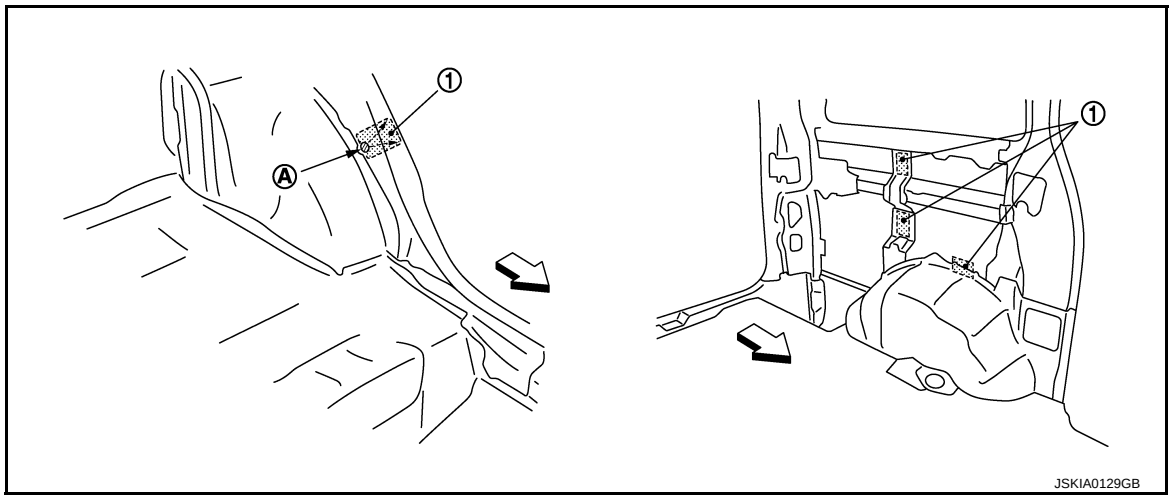
1. Fill procedures after installation of service part.

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

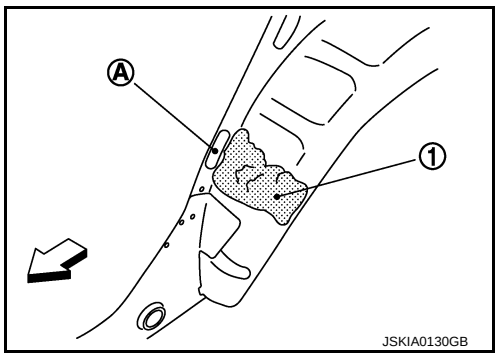
⇦: Vehicle front

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

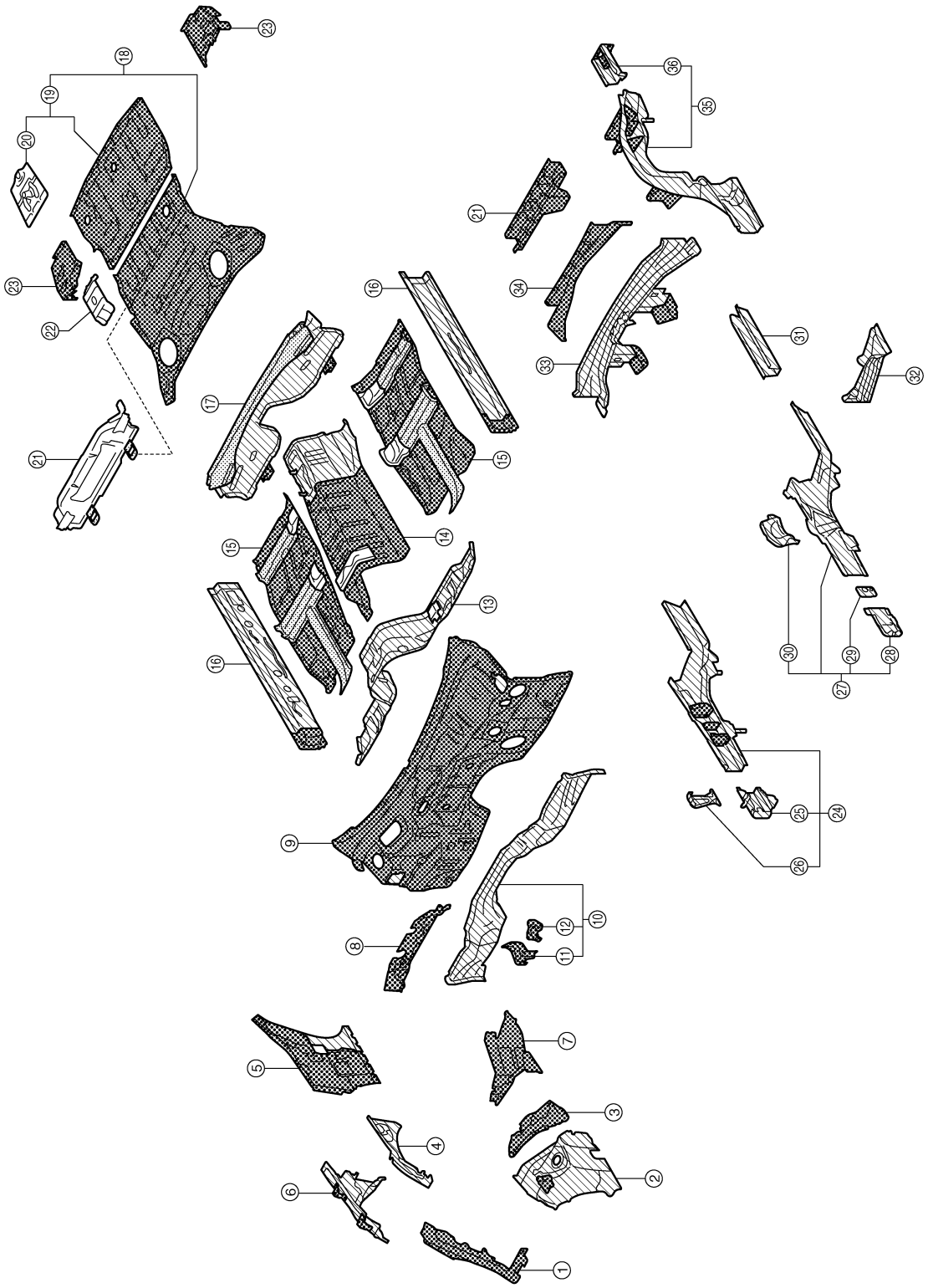
NOTE:
Fill enough to close gap with service part while avoiding flange area.

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

BODY COMPONENT PARTS

Underbody Component Parts

INFOID:0000000010837631



1. Side radiator core support (RH & LH)
2. Front strut housing (RH & LH)
3. Lower rear hoodledge (RH & LH)
4. Upper front hoodledge (RH & LH)
5. Upper rear hoodledge (RH & LH)
6. Hoodledge reinforcement (RH & LH)
7. Upper side cowl top (RH & LH)
8. Front cowl top
9. Upper dash

10. Lower dash crossmember assembly	11. Lower outer battery support bracket	12. Lower battery support bracket
13. Lower dash	14. Center front floor	15. Front floor (RH & LH)
16. Inner sill (RH & LH)	17. Rear seat crossmember reinforcement assembly	18. Rear floor front
19. Rear floor rear	20. Spare wheel clamp reinforcement	21. Rear crossmember center assembly
22. Sensor bracket	23. Rear floor side (RH & LH)	24. Front side member assembly (RH & LH)
25. Front side member front extension (RH & LH)	26. Front side member connector assembly (RH & LH)	27. Front side member closing plate assembly (RH & LH)
28. Front side member front closing plate (RH & LH)	29. Front side rear closing reinforcement (RH & LH)	30. Front side member center closing plate (RH & LH)
31. Front side member rear extension (RH & LH)	32. Front side member outrigger assembly (RH & LH)	33. Rear seat crossmember
34. Rear crossmember	35. Rear side member assembly (RH & LH)	36. Rear side member extension (RH & LH)

: Both sided anti-corrosive precoated steel sections

: High strength steel (HSS) sections

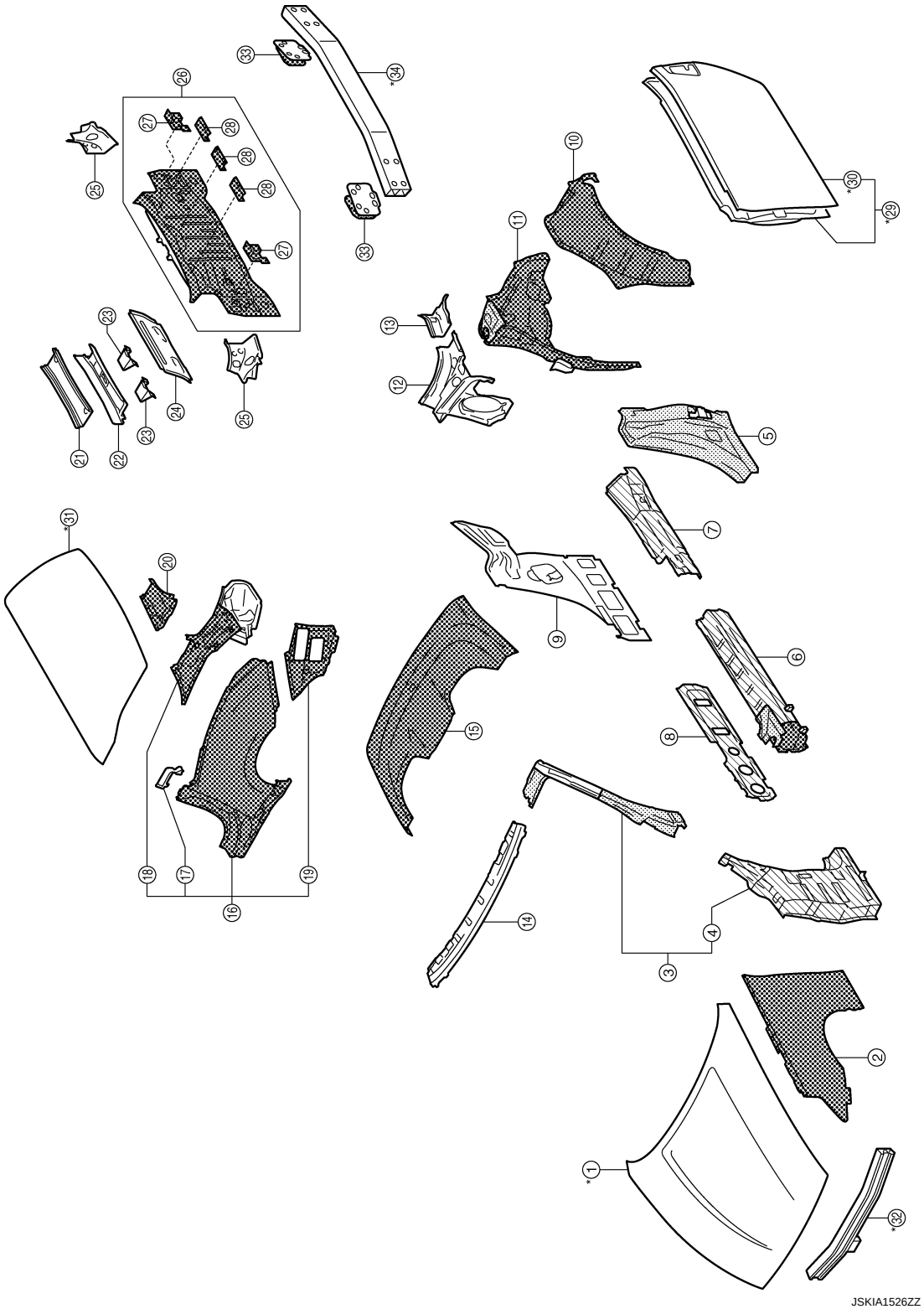
: Both sided anti-corrosive steel and HSS sections

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.

Body Component Parts

INFOID:0000000010837632



1. Hood
2. Front fender (RH & LH)
3. Upper front pillar reinforcement (RH & LH)
4. Front pillar brace (RH & LH)
5. Lock pillar reinforcement assembly (RH & LH)
6. Outer sill reinforcement (RH & LH front)

7. Outer sill reinforcement (RH & LH rear)
8. Lower front pillar reinforcement assembly (RH & LH)
9. Inner rear pillar (RH & LH)
10. Outer rear wheelhouse (RH & LH)
11. Inner rear wheelhouse (RH & LH)
12. Side parcel shelf (RH & LH)
13. Lower inner side panel extension (RH & LH)
14. Front roof rail
15. Roof storage lid assembly
16. Rear fender assembly (RH & LH)
17. Rear fender extension (RH & LH upper)
18. Rear fender extension (RH & LH)
19. Rear fender extension (RH & LH lower)
20. Rear fender extension (RH & LH inner)
21. Rear waist
22. Parcel shelf
23. Rear seatback bracket
24. Seatback support
25. Rear panel reinforcement bracket (RH & LH)
26. Rear panel assembly
27. Rear bumper fascia center bracket
28. Rear bumper bracket
29. Door assembly (RH & LH)
30. Outer door panel (RH & LH)
31. Trunk lid
32. Front bumper armature assembly
33. Rear bumper stay (RH & LH)
34. Inner center rear bumper reinforcement assembly

: Both sided anti-corrosive precoated steel sections

: High strength steel (HSS) sections

: Both sided anti-corrosive steel and HSS sections

*: Aluminum portion

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.

REMOVAL AND INSTALLATION

CORROSION PROTECTION

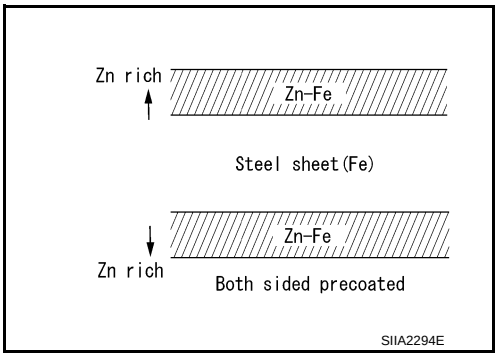
Description

INFOID:0000000010837633

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.



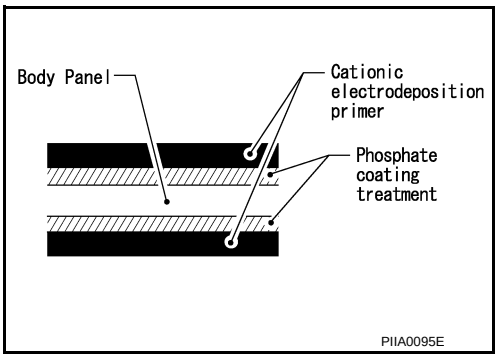
NISSAN genuine parts are fabricated from galvannealed steel. Therefore, it is recommended that NISSAN genuine parts or an equivalent be used for panel replacement to maintain the anti-corrosive performance built into the vehicle at the factory.

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.

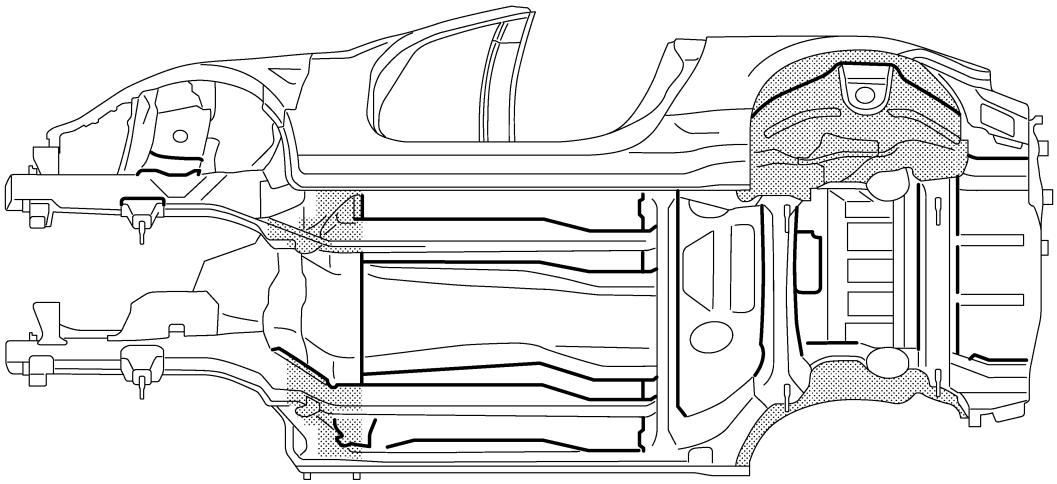
Undercoating

INFOID:0000000010837634

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.



JSKIA1527ZZ

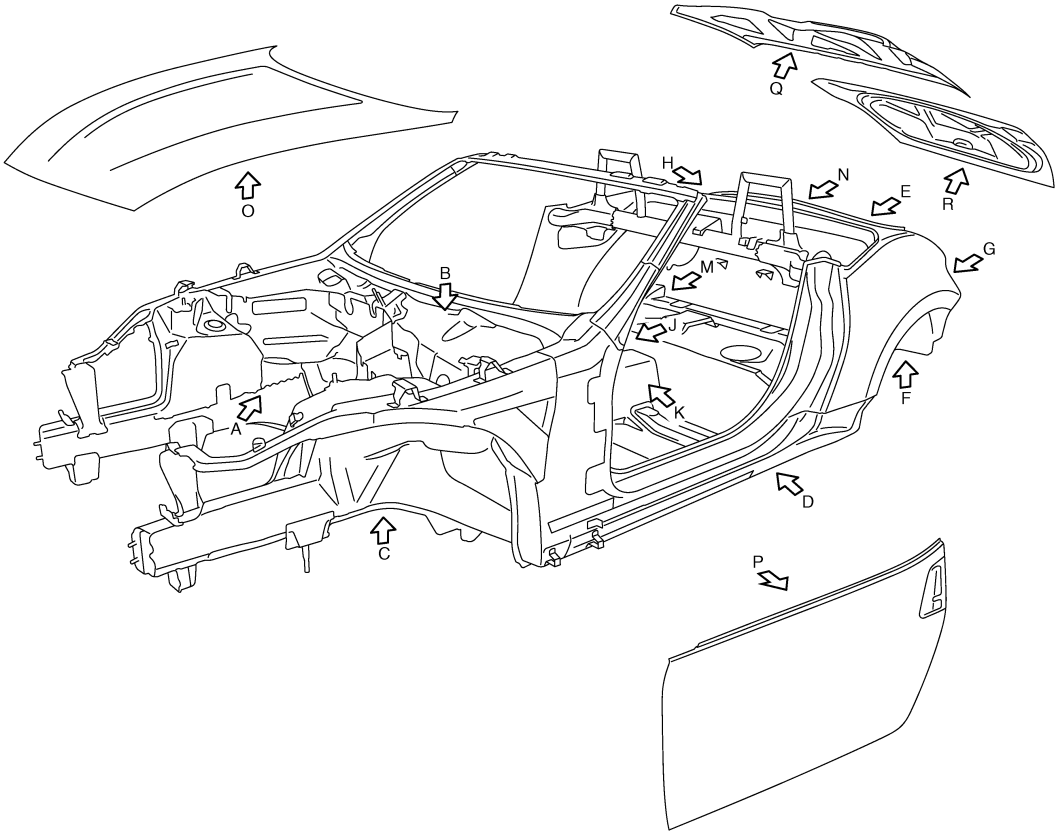
: Undercoated areas

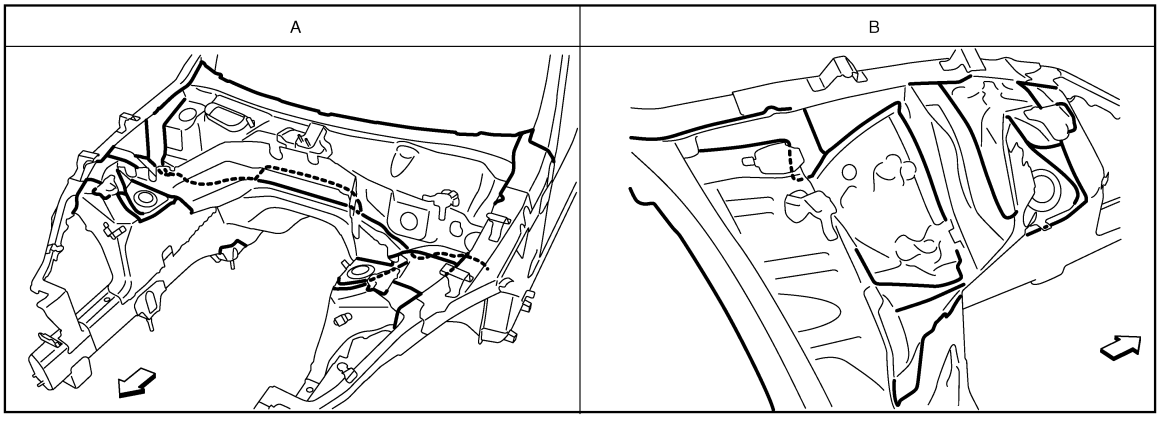
: Sealed portions

Body Sealing

INFOID:0000000010837635

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.

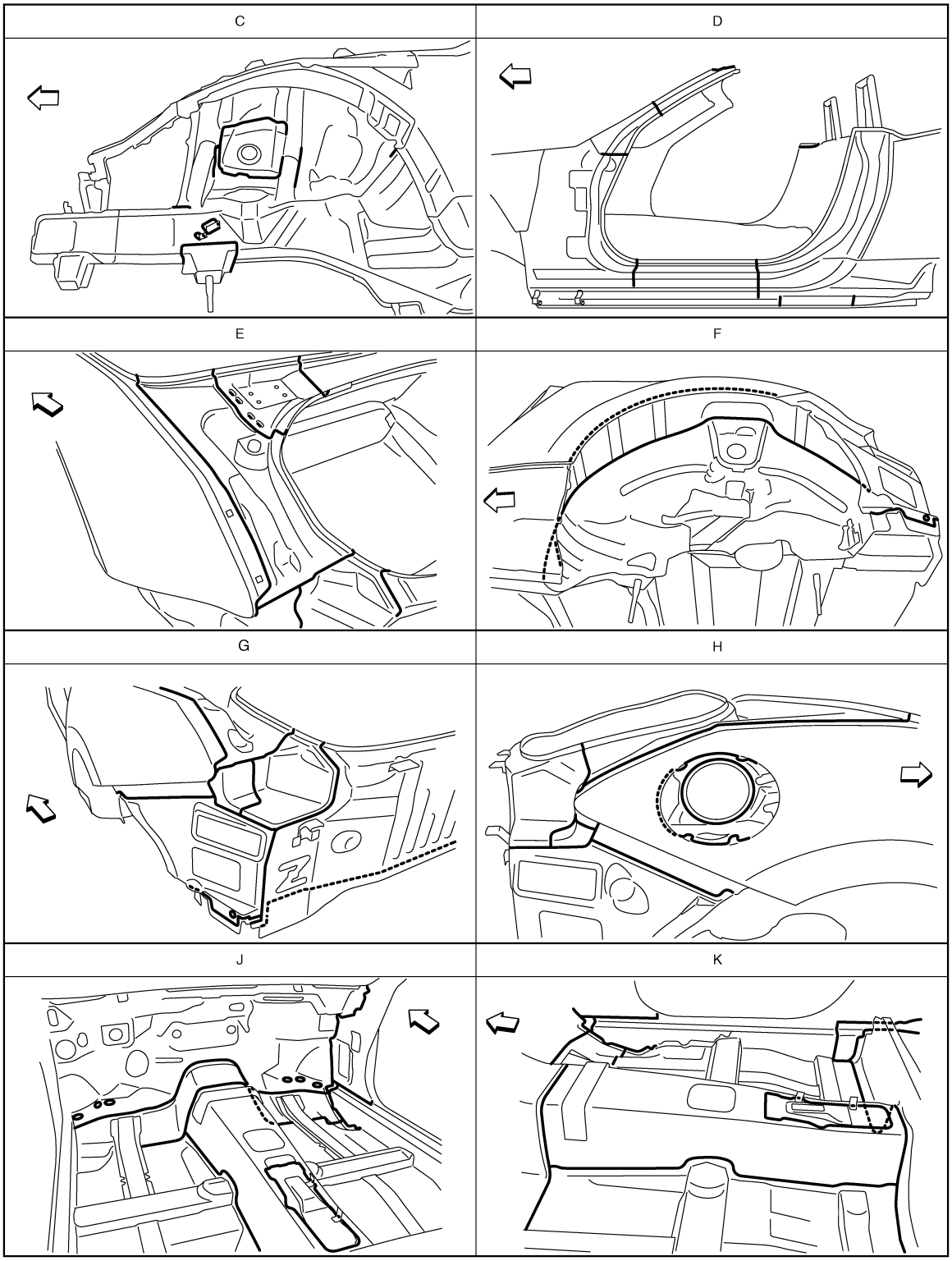




JSKIA1528ZZ

⇦: Vehicle front

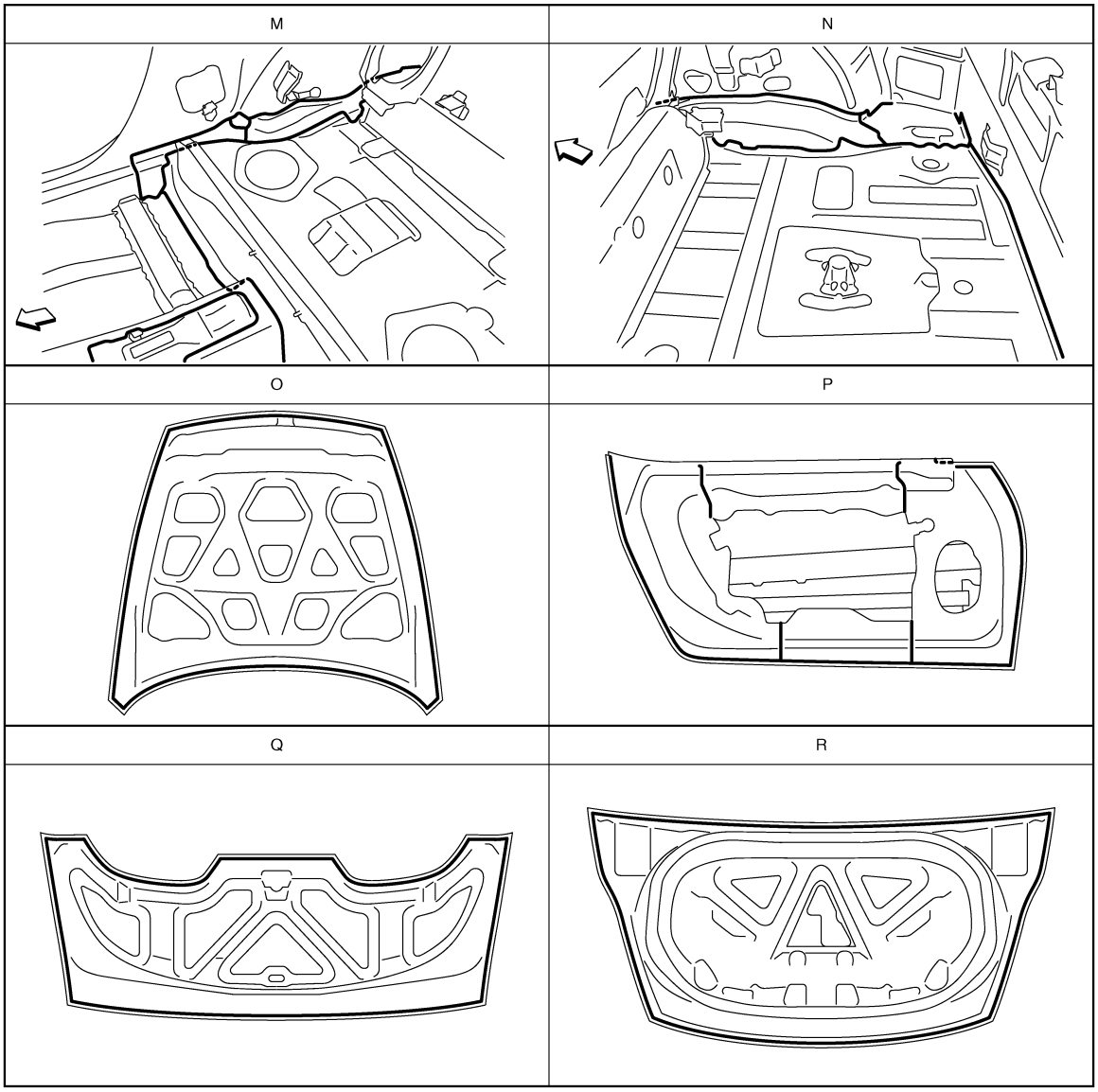
▬: Sealed portions



JSKIA1529ZZ

⇦: Vehicle front

▬: Sealed portions



JSKIA1530ZZ

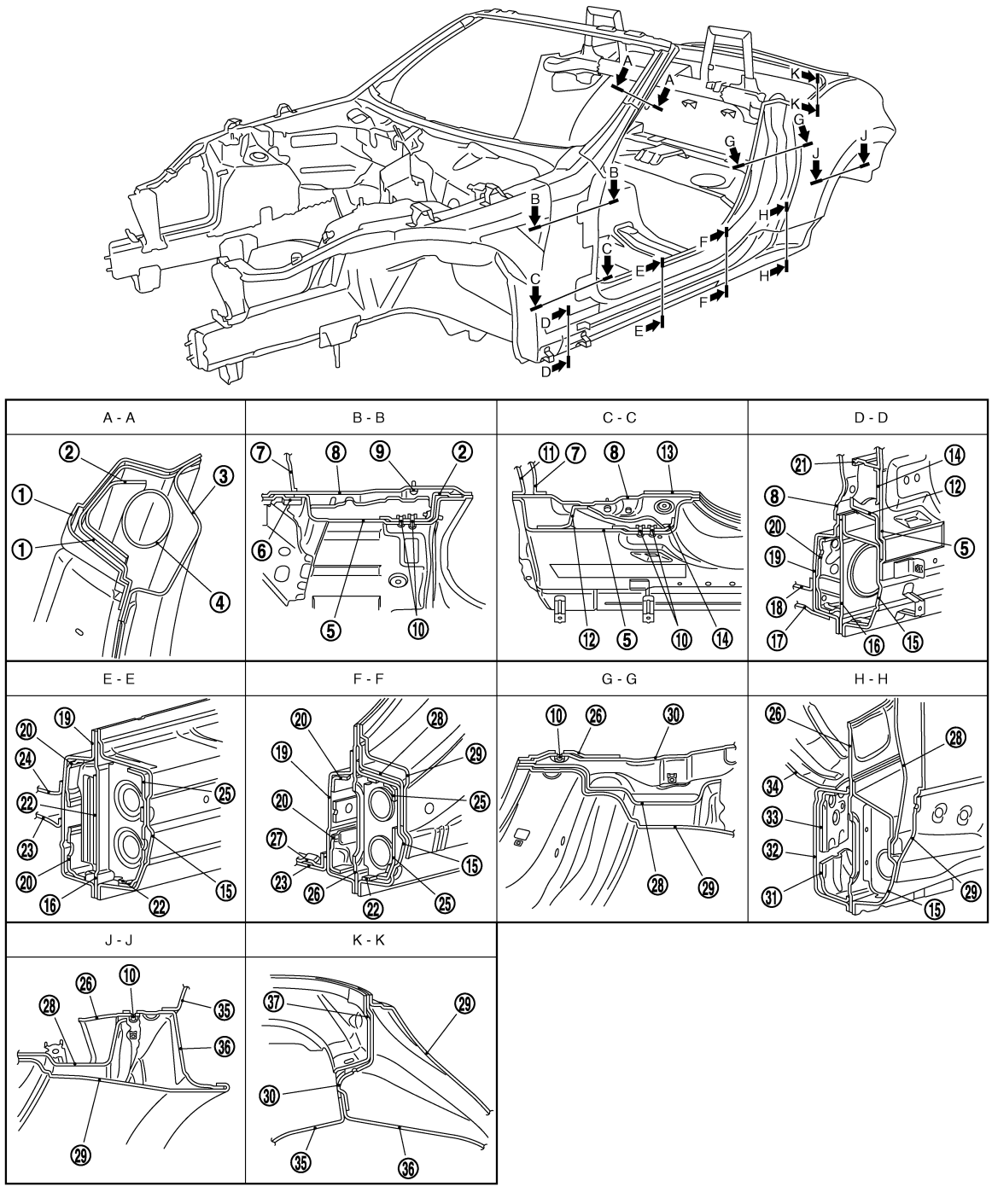
⇦: Vehicle front

▬: Sealed portions

BODY CONSTRUCTION

Body Construction

INFOID:0000000010837636



JSKIA1531ZZ

1. Upper outer front pillar
2. Outer front pillar reinforcement
3. Upper inner front pillar
4. Pipe reinforcement
5. Front pillar hinge brace
6. Hoodledge reinforcement gusset
7. Upper dash
8. Upper rear hoodledge
9. Weld bolt

10. Weld nut
11. Lower dash crossmember
12. Outer front sill reinforcement
13. Rear hoodledge reinforcement
14. Lower hinge plate
15. Outer sill reinforcement
16. Lower front pillar reinforcement
17. Front side member outrigger
18. Lower dash
19. Inner sill
20. Inner rear sill reinforcement
21. Lower front pillar bulkhead
22. Outer sill brace
23. Front floor
24. 2nd crossmember
25. Center sill reinforcement
26. Lower inner rear pillar
27. 3rd crossmember
28. Lock pillar reinforcement
29. Rear fender
30. Inner rear pillar
31. Rear tie down hook bracket
32. Rear side member front
33. Rear side member front reinforcement
34. Rear floor
35. Inner rear wheelhouse
36. Outer rear wheelhouse
37. Inner rear side extension

Rear Fender Hemming Process

INFOID:0000000010837637

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

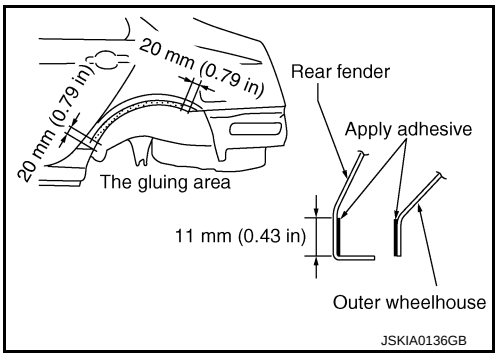
CAUTION:

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

PROCEDURE OF THE HEMMING PROCESS

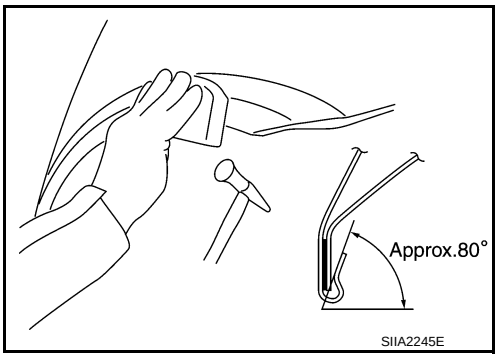
- Peel off old bonding material on the surface of the outer wheelhouse and clean thoroughly.
- Peel off a primer coat in the specified area where new adhesive is to be applied on rear fender (the replacing part).
- Apply new adhesive to both specified areas of the outer wheelhouse and rear fender.

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

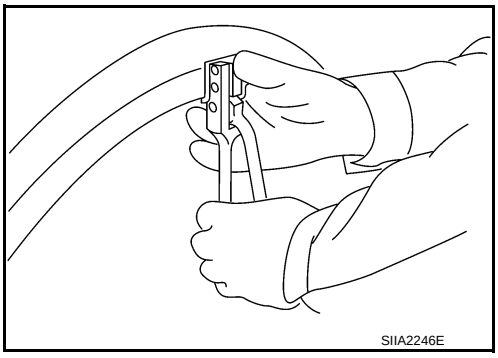


- Attach rear fender to the body of the car, and weld the required part except the hemming part.

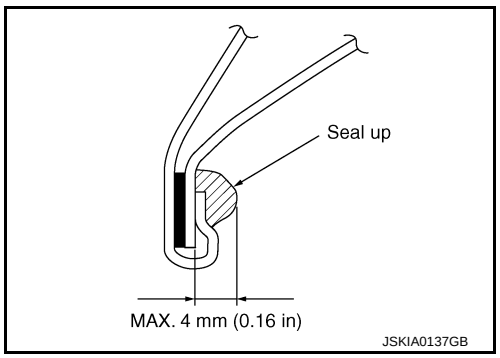
- Bend the welded part starting from the center of the wheel arch gradually with a hammer and a dolly. (Also hem the end of the flange.)
- Hemming with a hammer is conducted to an approximate angle of 80 degrees.



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



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



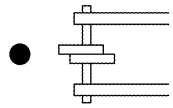
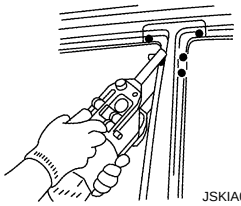
REPLACEMENT OPERATIONS

Description

INFOID:0000000010837638

- 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"> 
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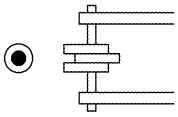
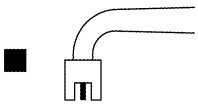
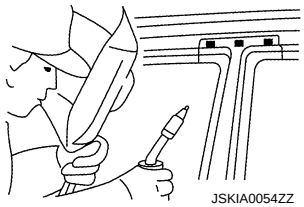
<tr><td> 
JSKIA0050ZZ</td><td>3-spot welds</td></tr>
<tr><td> 
JSKIA0051ZZ</td><td>MIG plug weld</td><td> 
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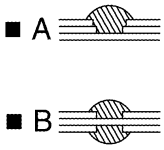
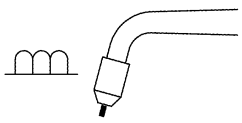
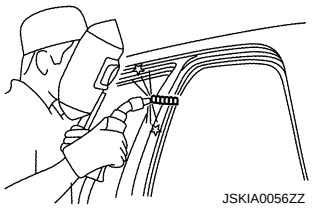
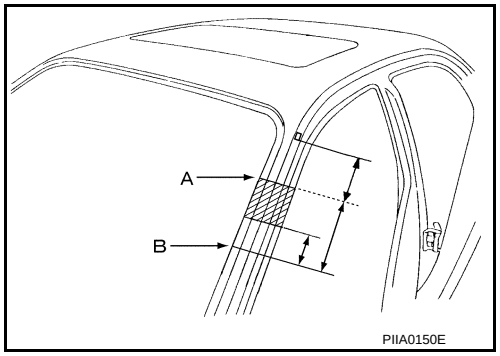
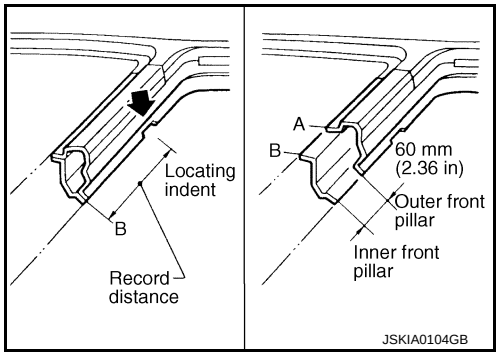
For 3 panels plug weld method
 
■ A
■ B
JSKIA0055ZZ</td></tr>
<tr><td> 
JSKIA0052ZZ</td><td>MIG seam weld / Point weld</td><td> 
JSKIA0056ZZ</td></tr>
</table>

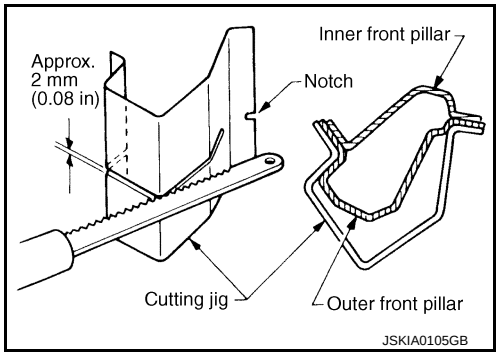
- Front pillar butt joint can be determined anywhere within shaded area as shown in the figure. The best location for the butt joint is at position A due to the construction of the vehicle.



- 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.

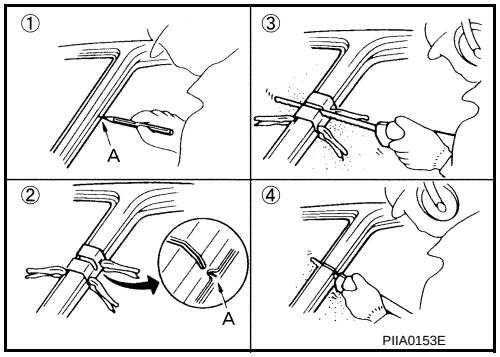


- Prepare a cutting jig to make outer pillar easier to cut. Also, this will permit the service part to be accurately cut at the joint position.



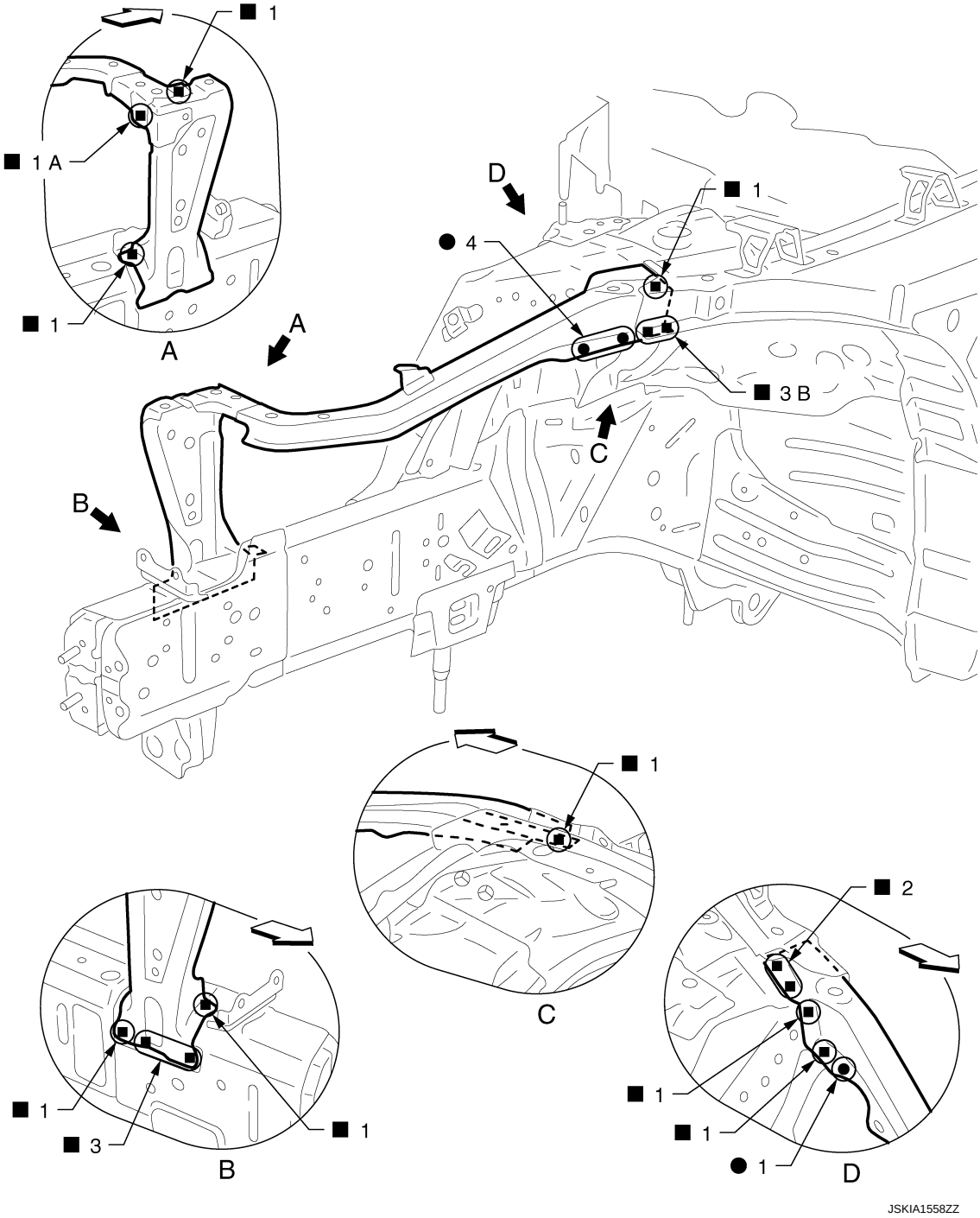
- An example of cutting operation using a cutting jig is as per the following.

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:0000000010837639



⇦: Vehicle front

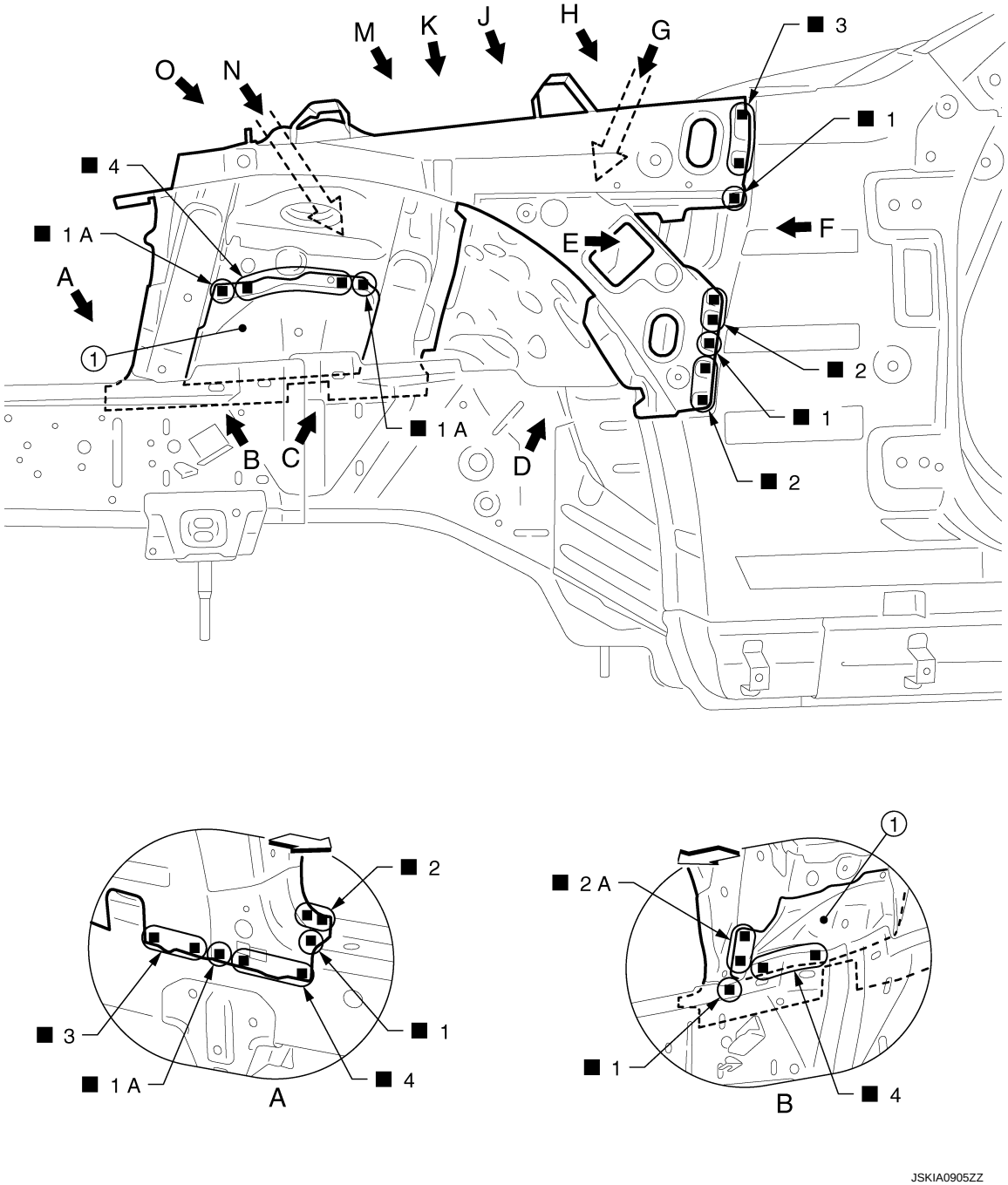
Replacement parts

- Side radiator core support (LH)
- Front side member connector assembly (LH)

Hoodledge

INFOID:0000000010837640

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

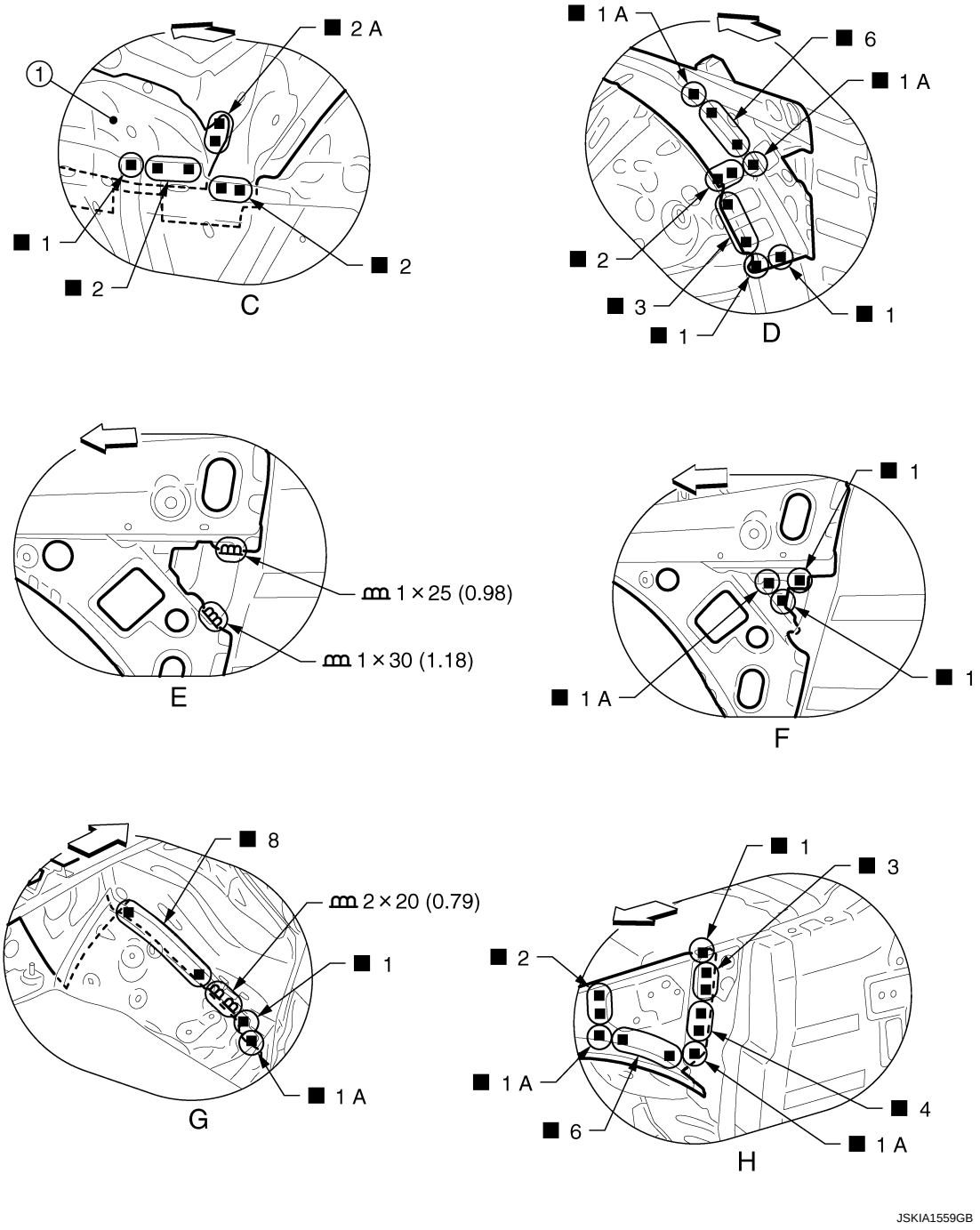


1. Front side member center closing plate

⇦: Vehicle front

Replacement parts

- Upper front hoodledge (LH)
- Hoodledge reinforcement (LH)
- Front strut housing (LH)

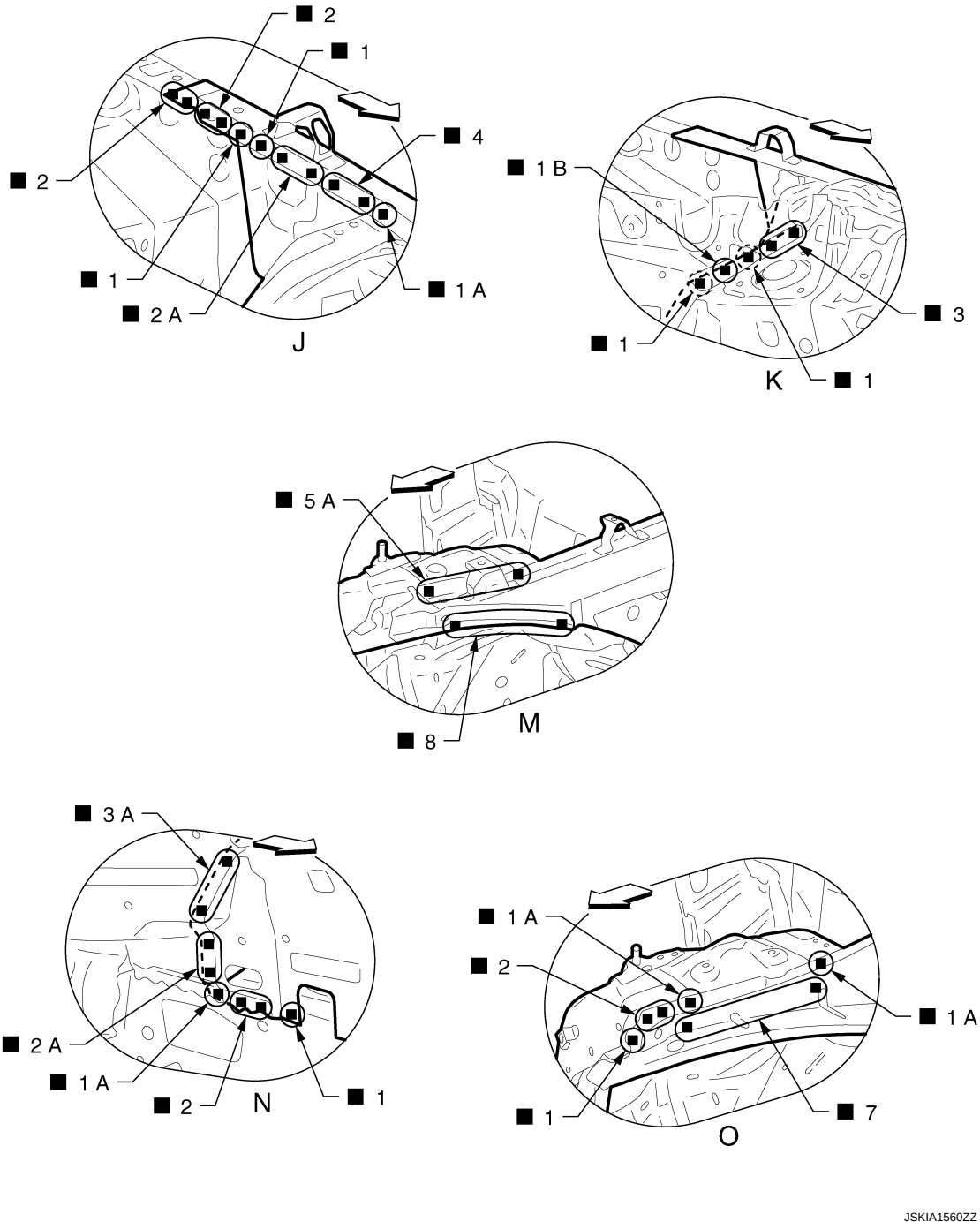


1. Front side member center closing plate

Unit: mm (in)

⇦: Vehicle front

View H: Before installing hoodledge reinforcement



JSKIA1560ZZ

⇦: Vehicle front

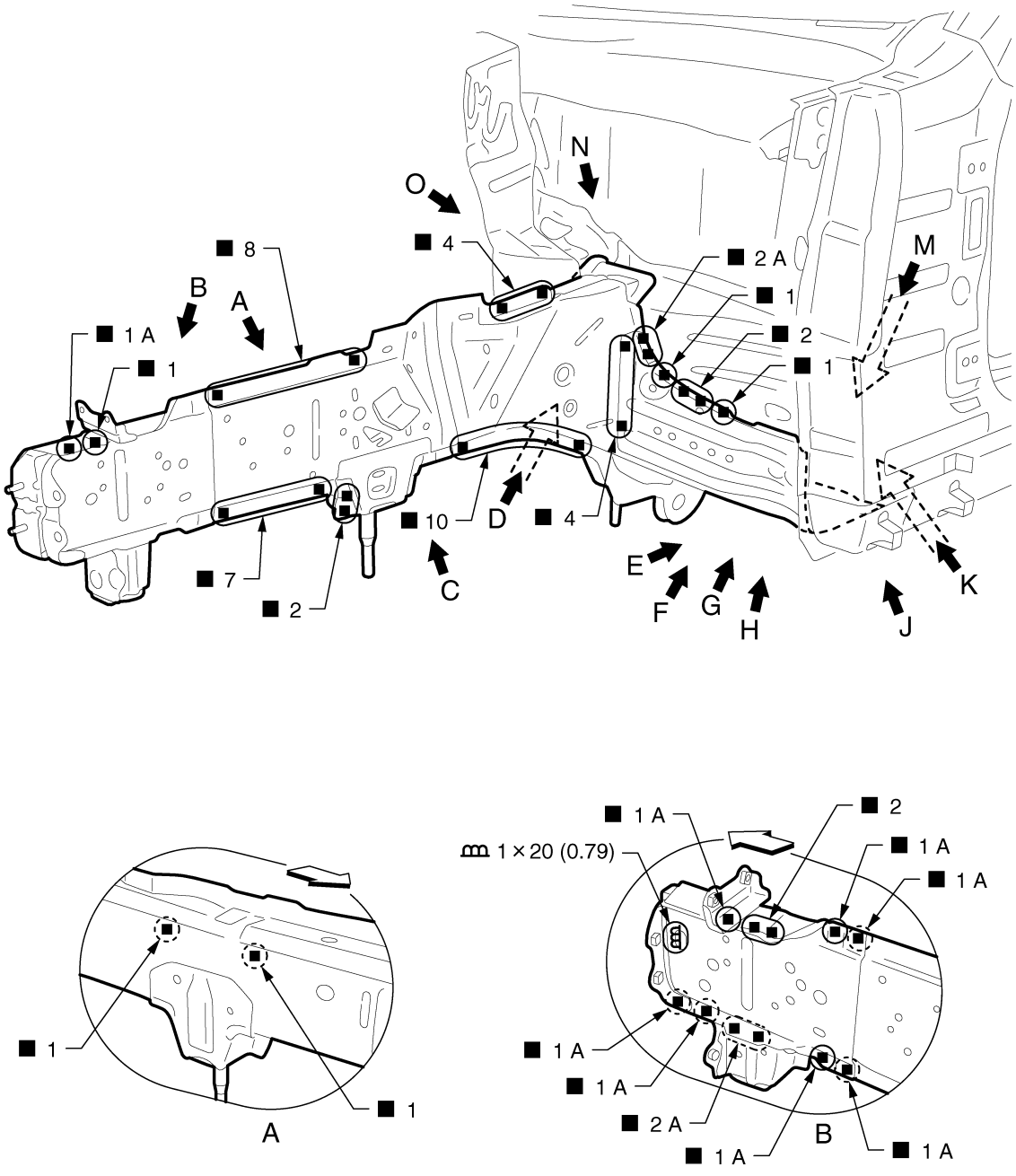
(): Weld the parts onto the back of the component part.

View O: Before installing hoodledge reinforcement

Front Side Member

INFOID:0000000010837641

Work after radiator core support and hoodledge are removed.
Assemble the hoodledge and check the fitting according to Body Alignment before replacing the front side member center closing plate.



Unit: mm (in)

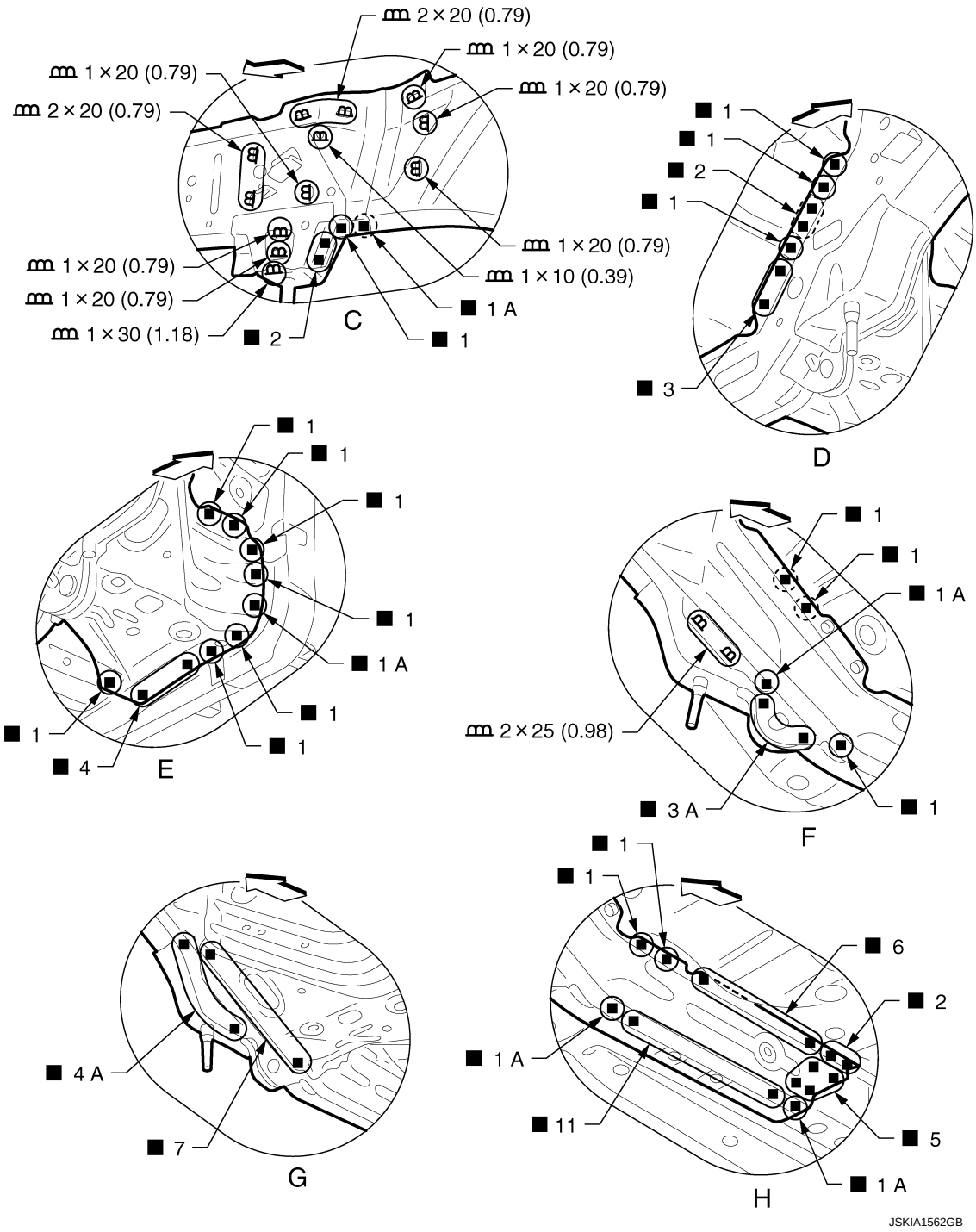
⇦: Vehicle front

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

Replacement parts

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

View A: Before installing front side member closing plate assembly

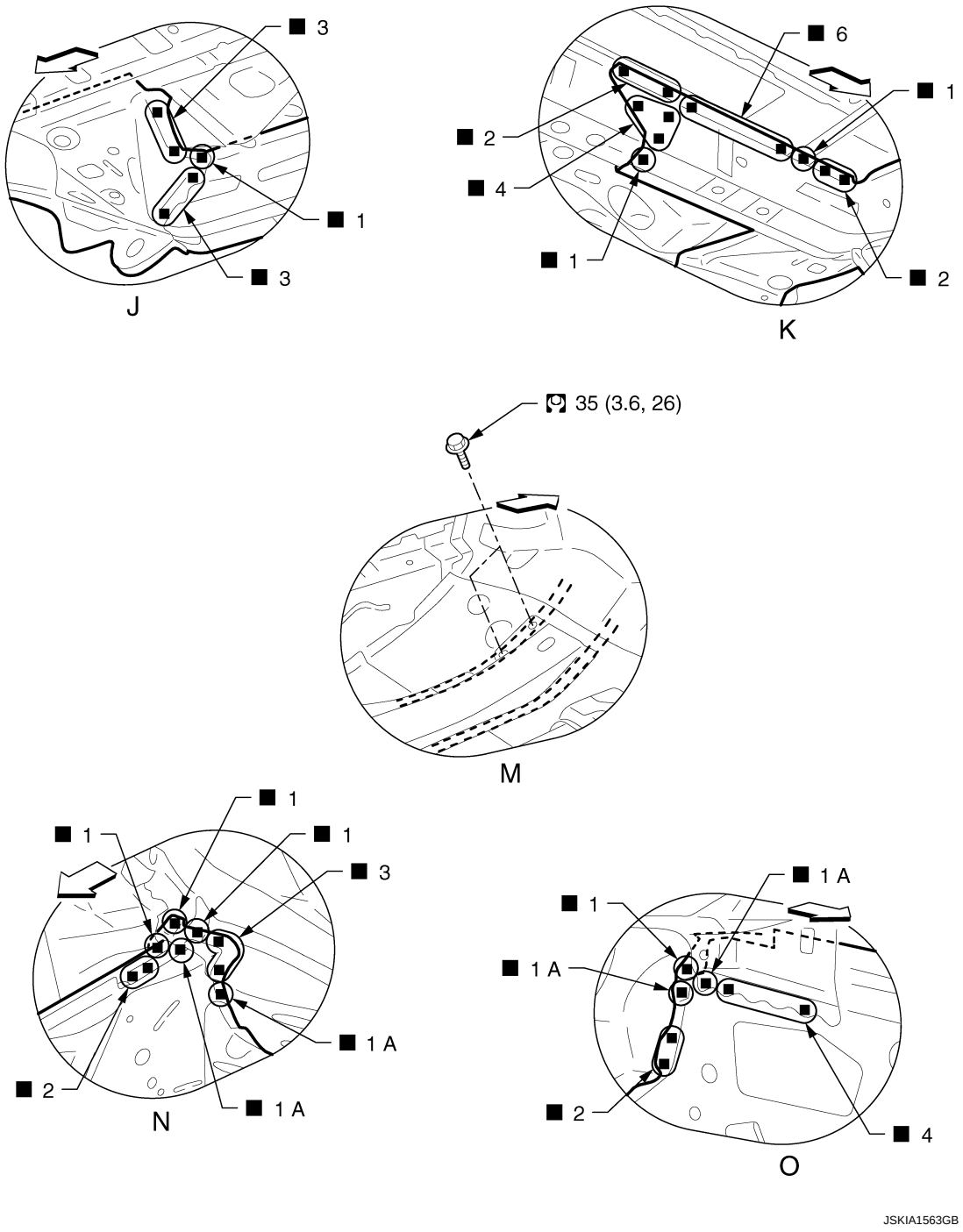


Unit: mm (in)

⇦: Vehicle front

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

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



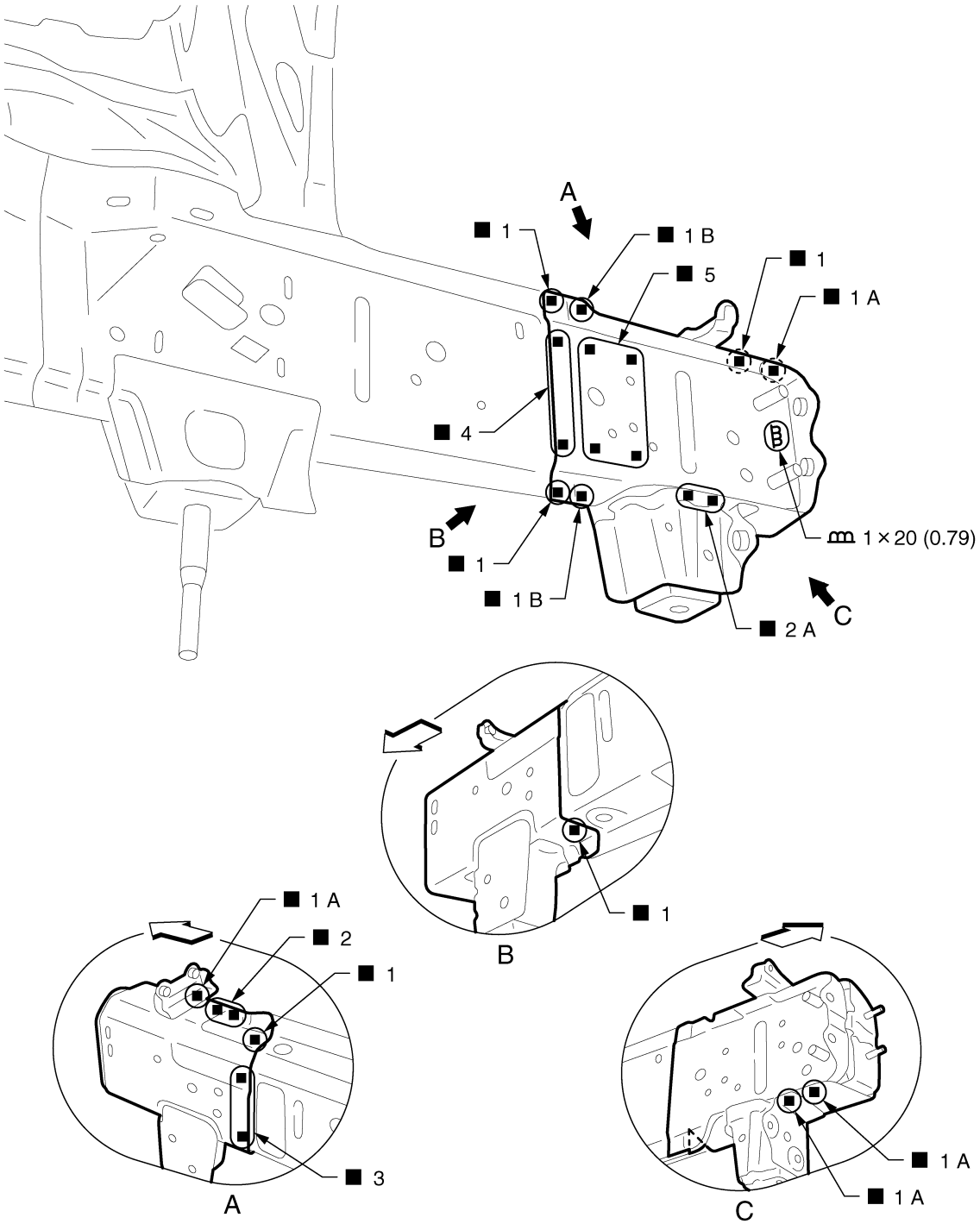
: Vehicle front

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

Front Side Member (Partial Replacement)

INFOID:0000000010837642

Work after radiator core support is removed.



Unit: mm (in)

⇦: Vehicle front

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

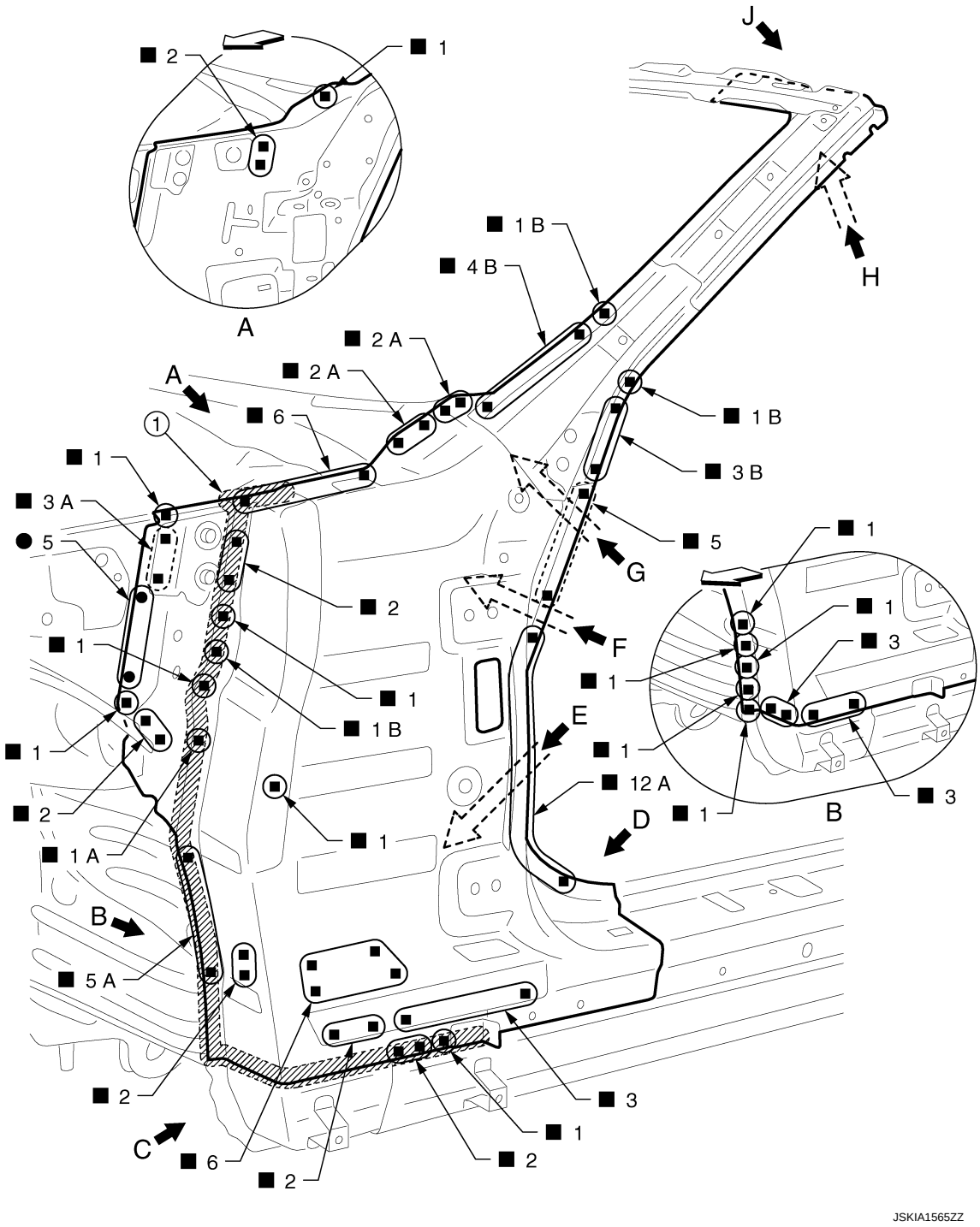
Replacement parts

- Front side member front extension (RH)
- Front side member front closing plate (RH)
- Front side rear closing reinforcement (RH)

Front Pillar

INFOID:0000000010837643

Work after hoodledge reinforcement is removed.



1. Body sealing

Unit: mm (in)

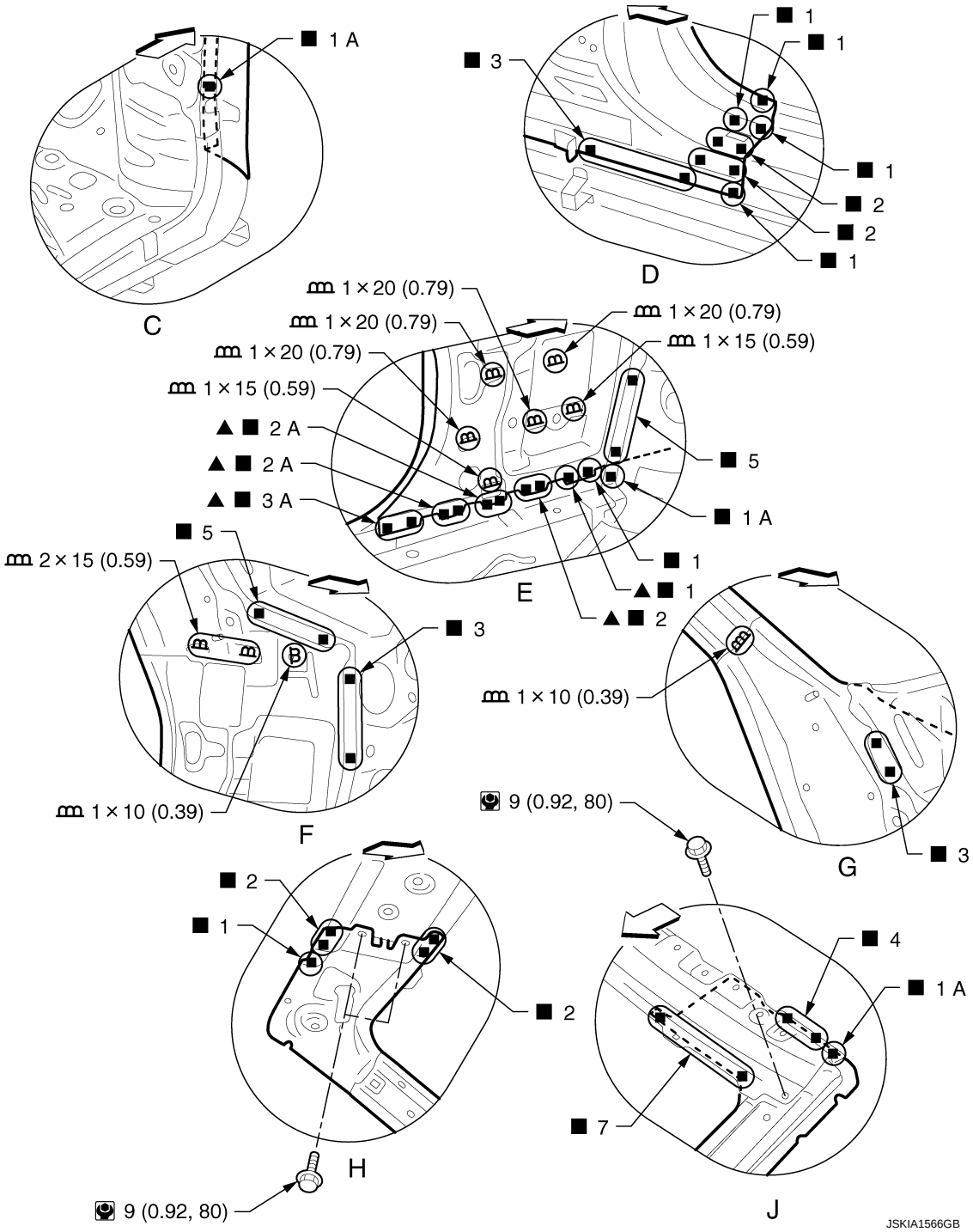
⇦: Vehicle front

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

Replacement parts

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

View A: Before installing upper front pillar reinforcement



Unit: mm (in)

⇦: Vehicle front

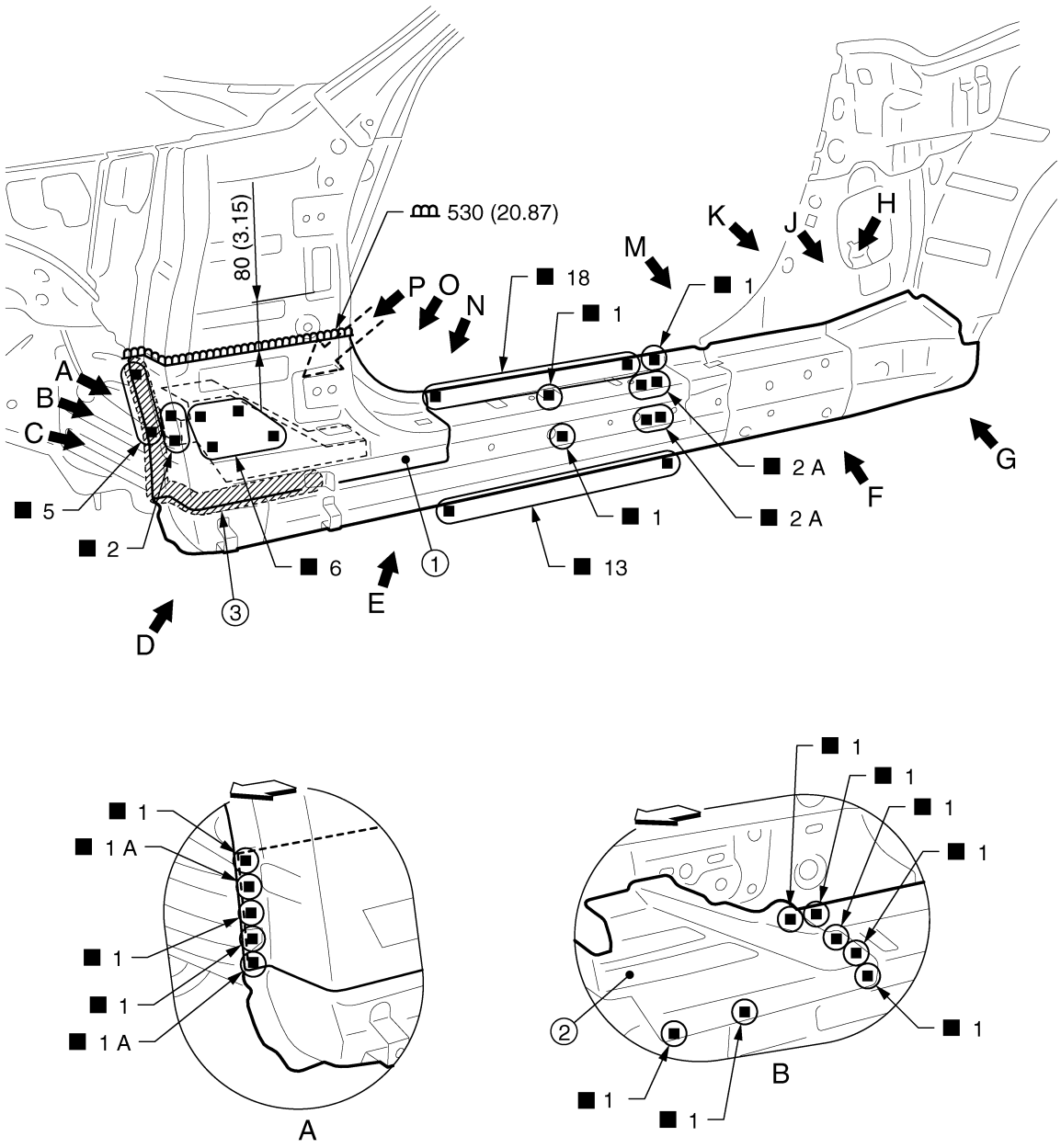
▲: Drill ϕ8 mm (0.31 in) hole for the plug welding hole (ultra high strength steel plate).
Refer to GI-4, "Components" for symbols in the figure.

Outer Sill

INFOID:0000000010837644

Work after hoodledge reinforcement, rear fender, and lock pillar reinforcement are removed.
Remove the front pillar brace (reusable).
Remove the outer front sill reinforcement (reusable) from the service part ″outer sill reinforcement″ for easier installation of outer sill reinforcement.

Before installing outer sill reinforcement, remove outer sill brace from the service part "outer sill reinforcement" to install outer sill brace.



JSKIA1567GB

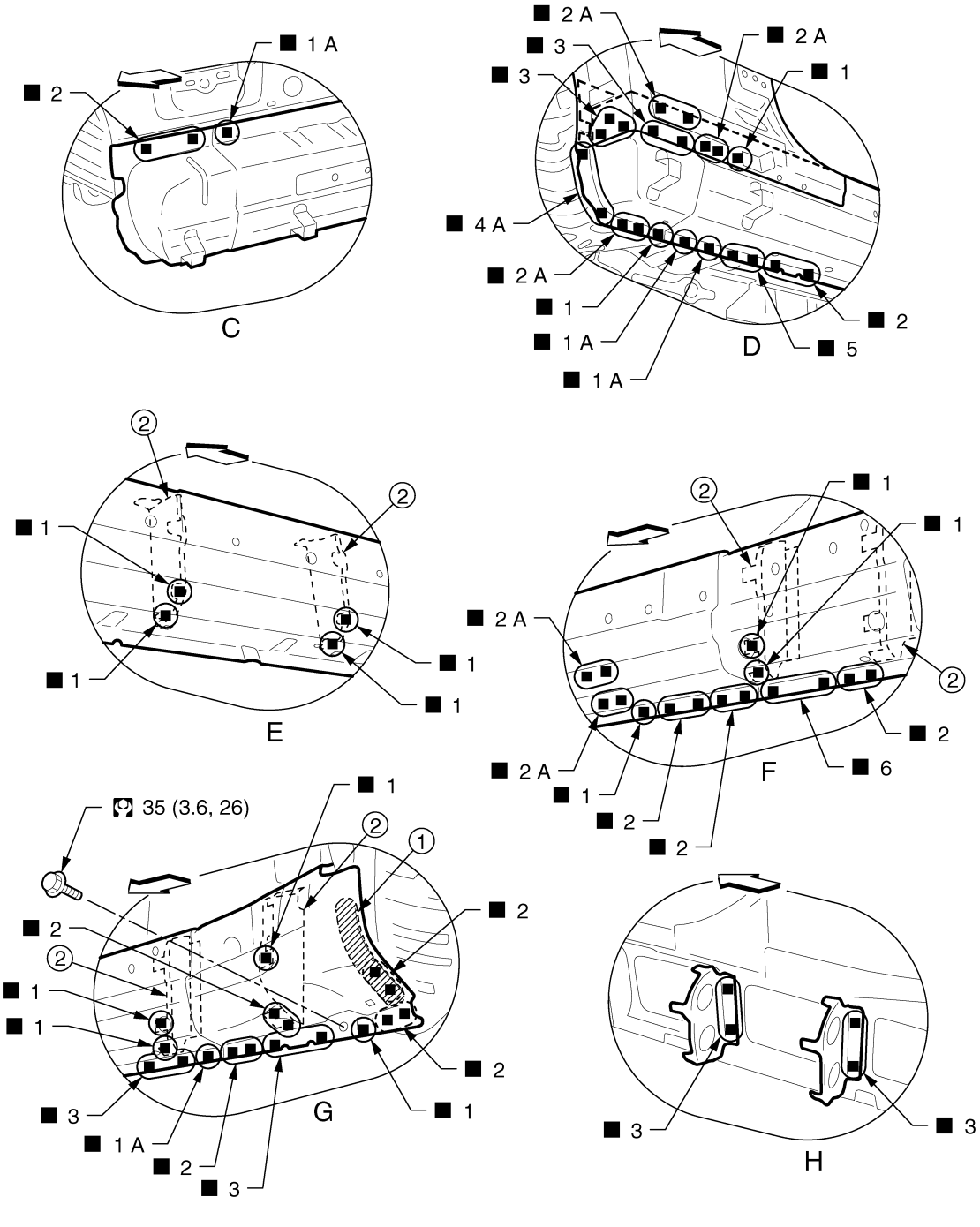
1. Front pillar brace
2. Outer front sill reinforcement
3. Body sealing

Unit: mm (in)

⇦: Vehicle front

Replacement parts

- Outer sill reinforcement (LH front)
- Outer sill reinforcement (LH rear)



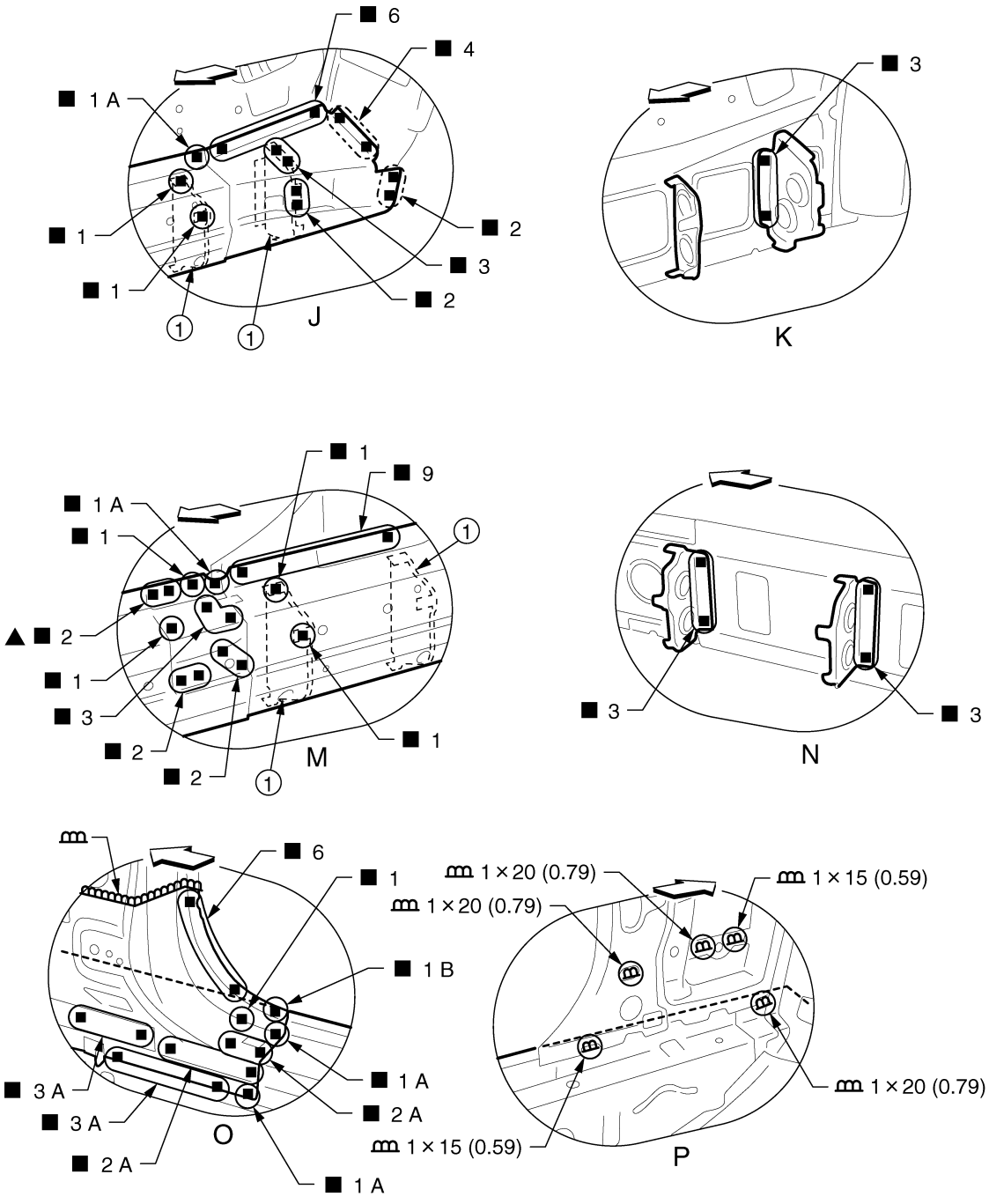
1. Body sealing
2. Outer sill brace

⇦: Vehicle front

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

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

View C: Before installing outer front sill reinforcement
View H: Before installing outer sill reinforcement (rear)



1. Outer sill brace

Unit: mm (in)

⇦: Vehicle front

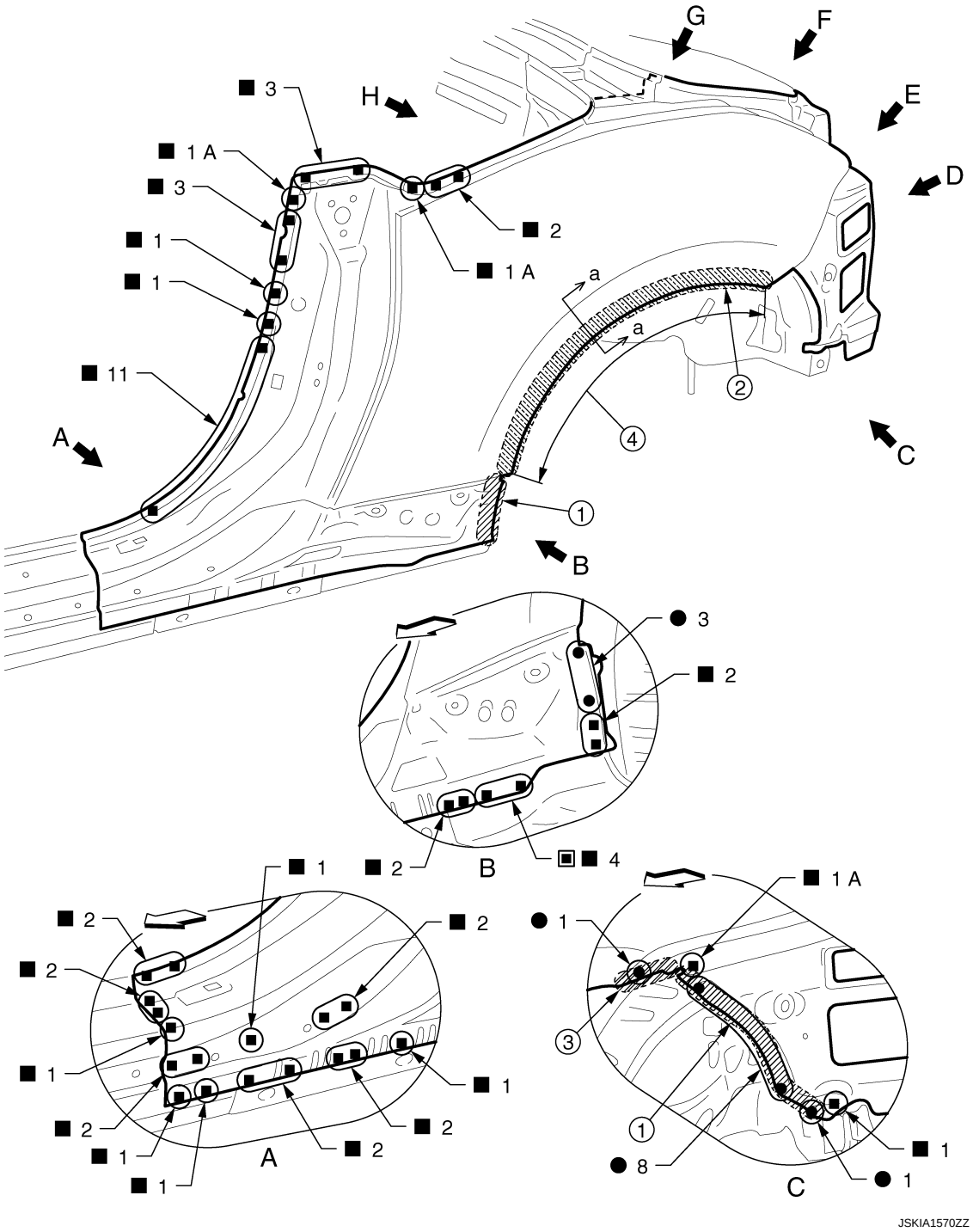
▲: Drill ϕ8 mm (0.31 in) hole for the plug welding hole (ultra high strength steel plate).

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

View K: Before installing outer sill reinforcement (rear)
View N: Before installing outer sill reinforcement (front)

Rear Fender

INFOID:0000000010837645



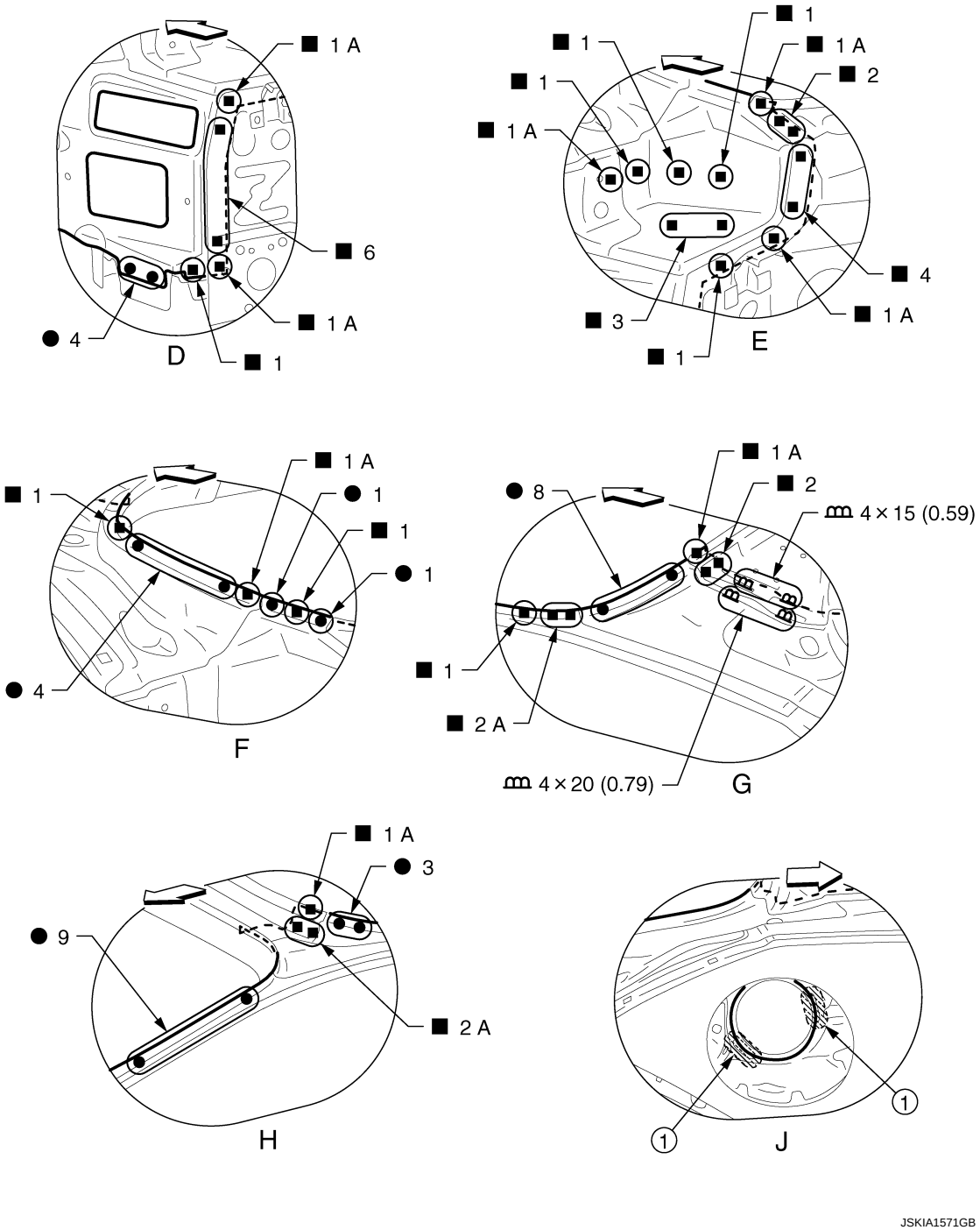
1. Body sealing
2. Adhesive
3. Urethane foam
4. Hemming portion

⇦: Vehicle front

■: Perform the plug welding instead of the laser welding.

Replacement parts

- Rear fender (LH)



JSKIA1571GB

1. Adhesive

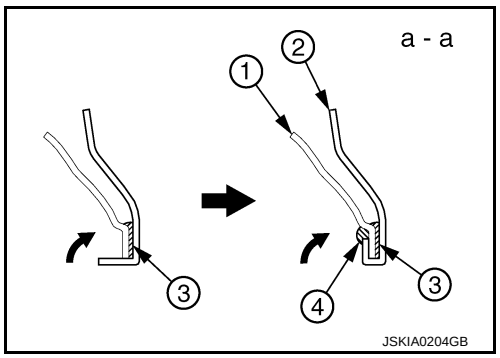
Unit: mm (in)

⇦: Vehicle front

View J: Right side rear fender

POINT

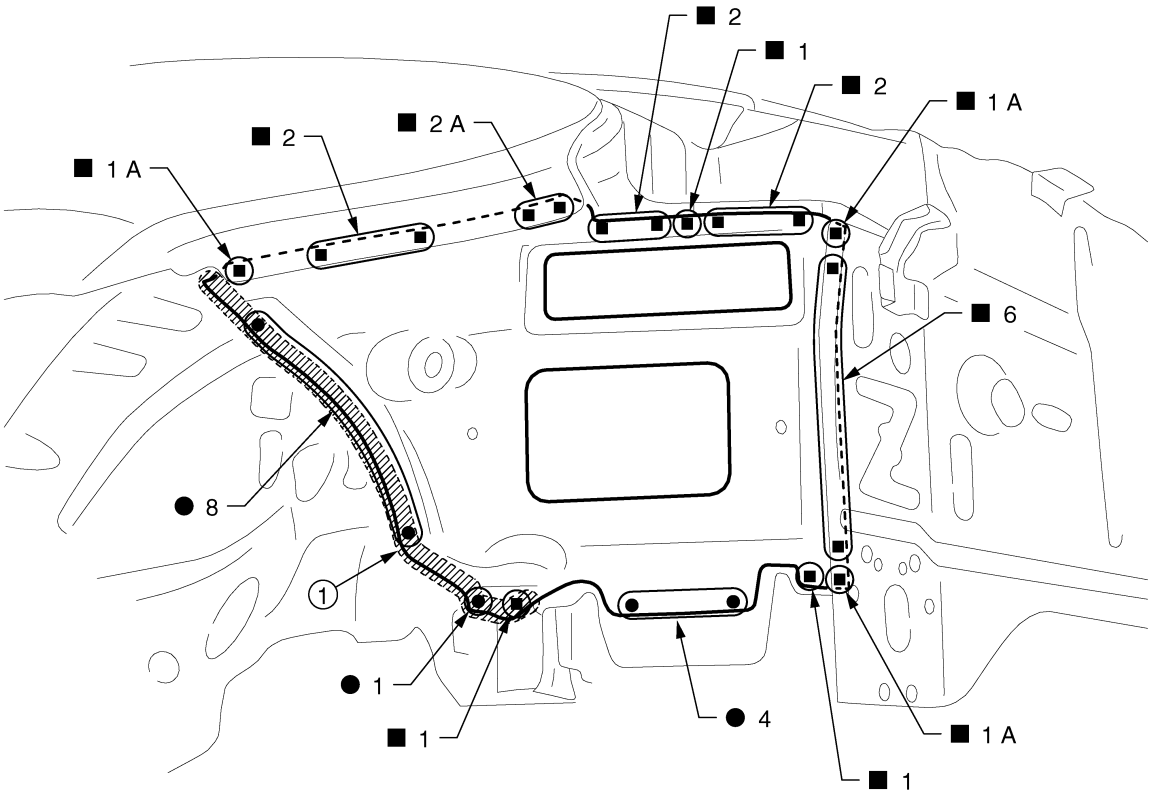
- Perform the hemming to the flange of wheelarch after applying the adhesive.
- Apply the sealing to the flange end.
- Refer to BRM-86, "Rear Fender Hemming Process".



1. **Outer rear wheelhouse**
2. **Rear fender**
3. **Adhesive**
4. **Sealant**

Rear Fender Extension

INFOID:0000000010837646



JSKIA1572ZZ

1. Body sealing

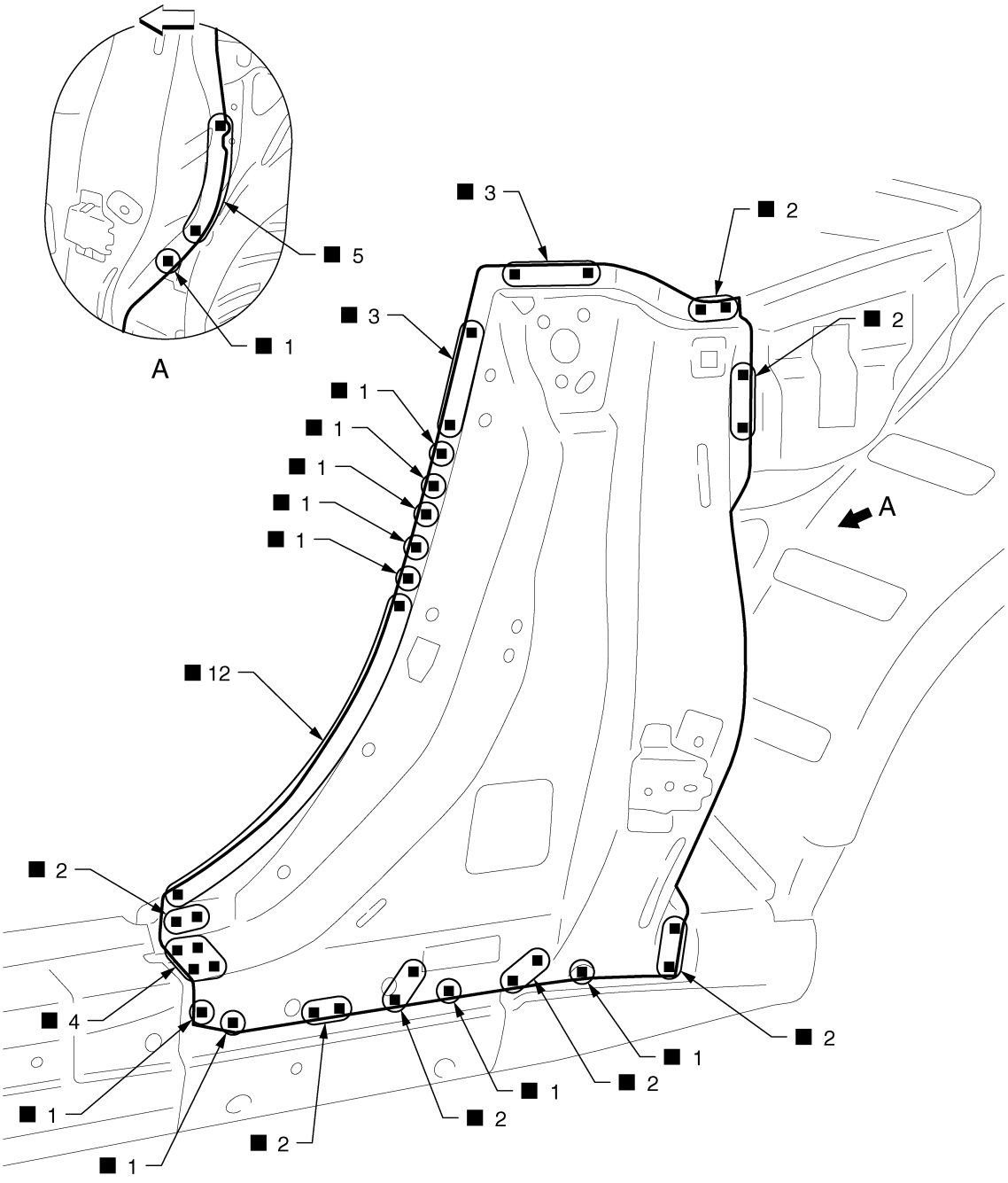
Replacement parts

- Rear fender extension (LH)

Lock Pillar Reinforcement

INFOID:0000000010837647

Work after rear fender is removed.



JSKIA1573ZZ

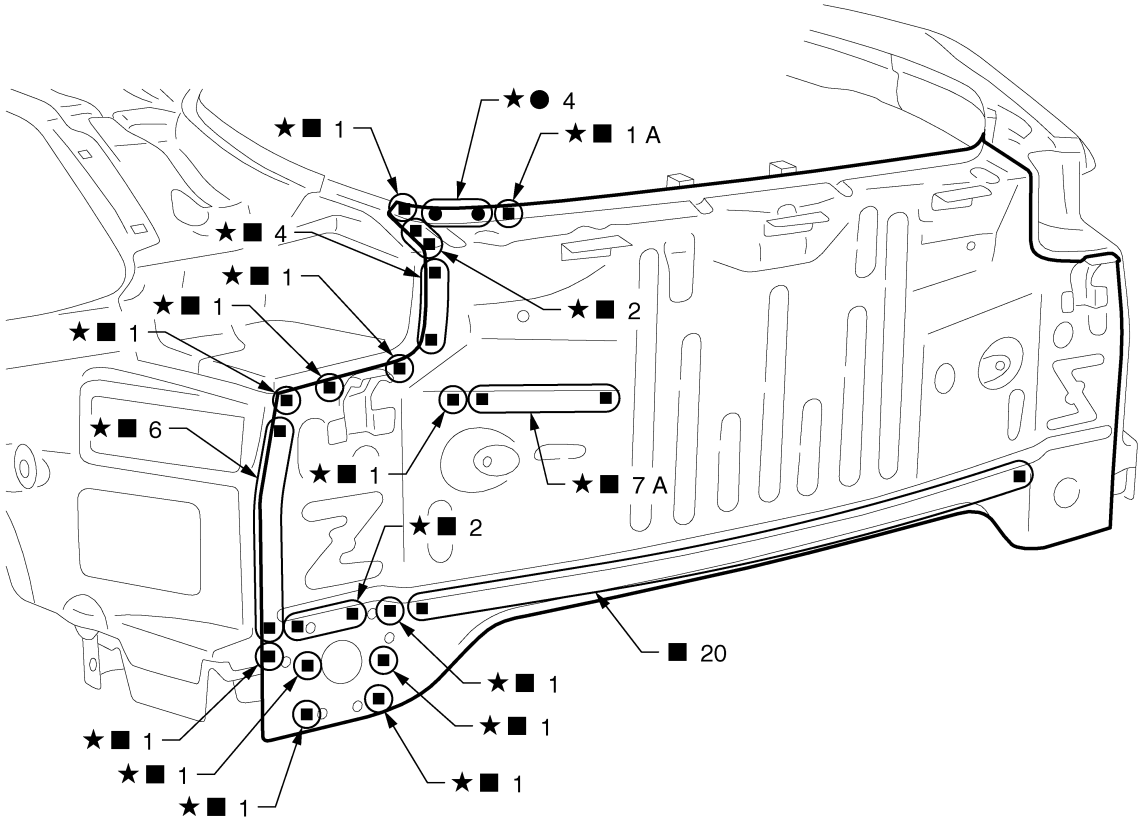
⇦: Vehicle front

Replacement parts

- Lock pillar reinforcement assembly (LH)

Rear Panel

INFOID:0000000010837648



JSKIA1574ZZ

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

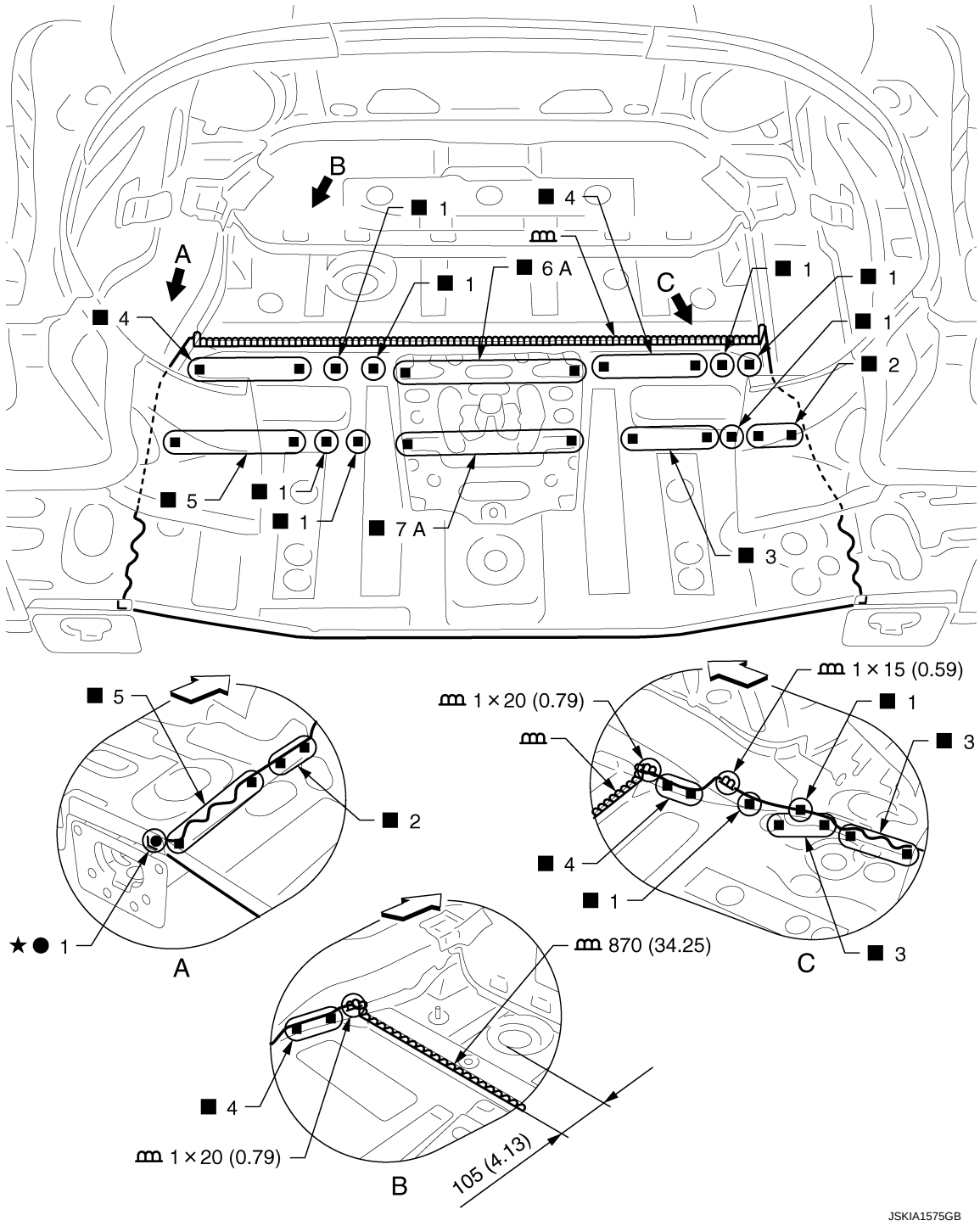
Replacement parts

- Rear panel assembly

Rear Floor Rear

INFOID:0000000010837649

Work after rear panel is removed.



Unit: mm (in)

⇦: Vehicle front

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

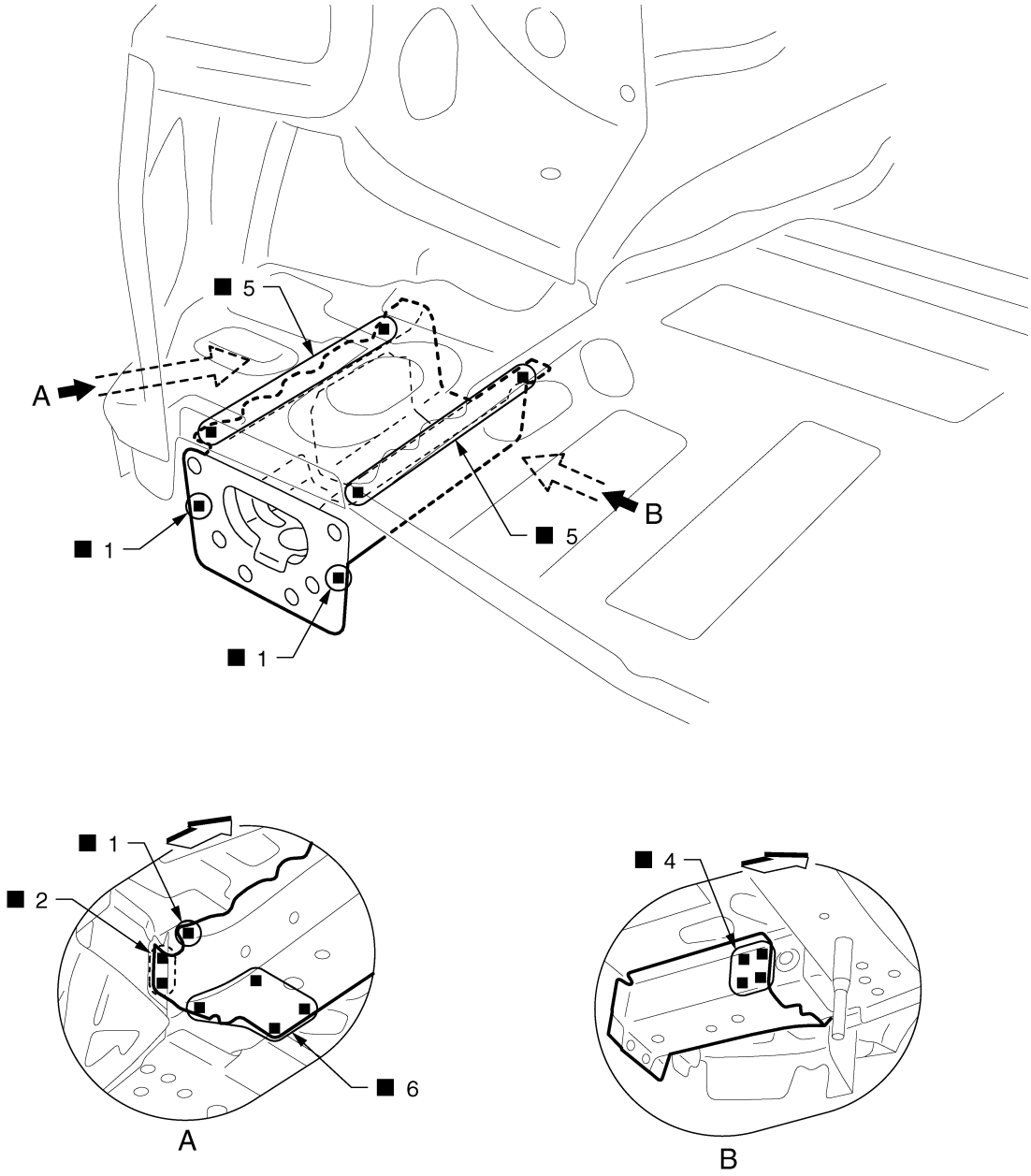
Replacement parts

- Rear floor rear

Rear Side Member Extension

INFOID:0000000010837650

Work after rear panel is removed.



JSKIA1576ZZ

⇦: Vehicle front

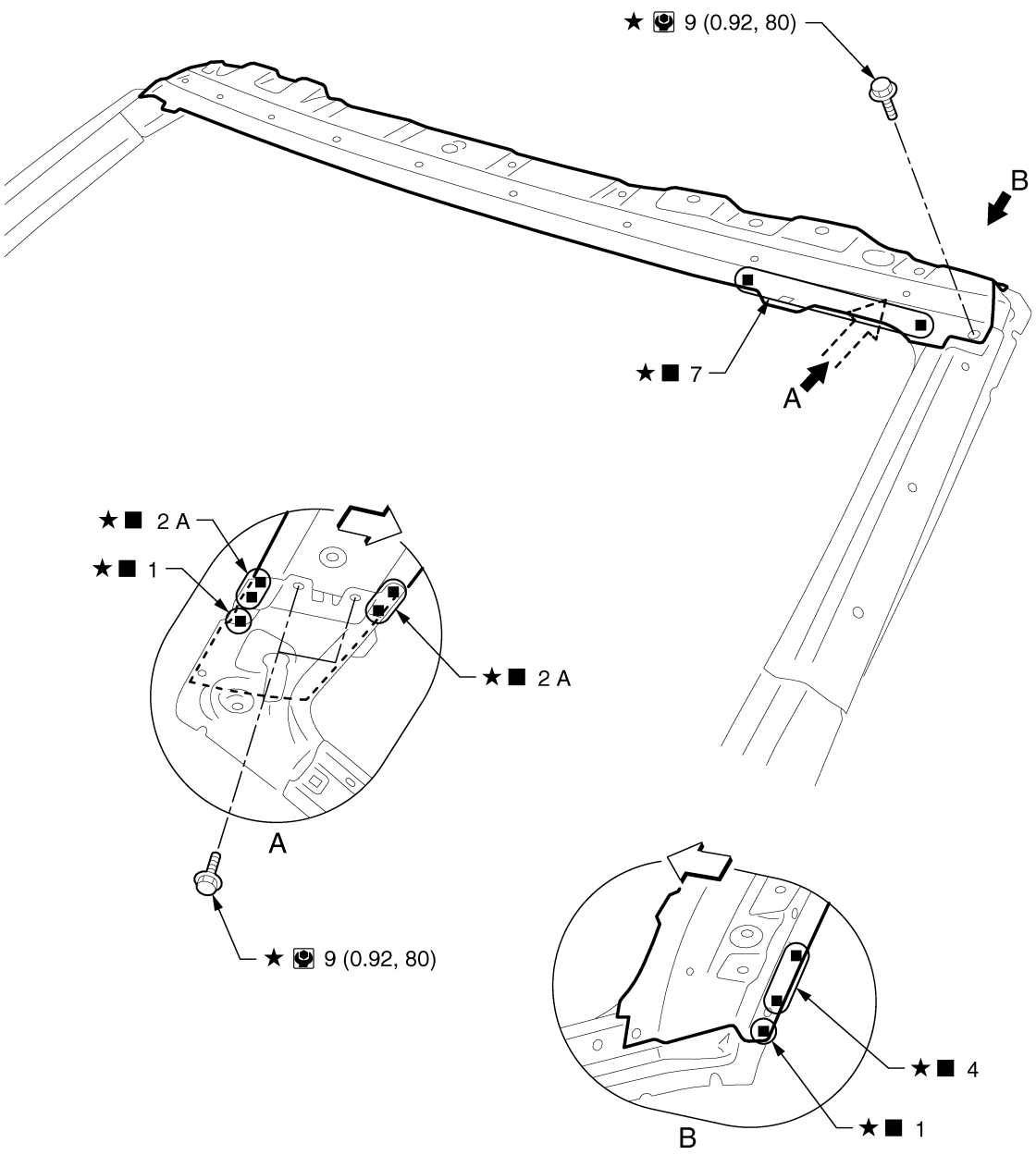
(◌): Weld the parts onto the back of the component part.

Replacement parts

- Rear side member extension (LH)

Roof

INFOID:0000000011351141



JSKIA1595GB

⇦: 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

- Front roof rail

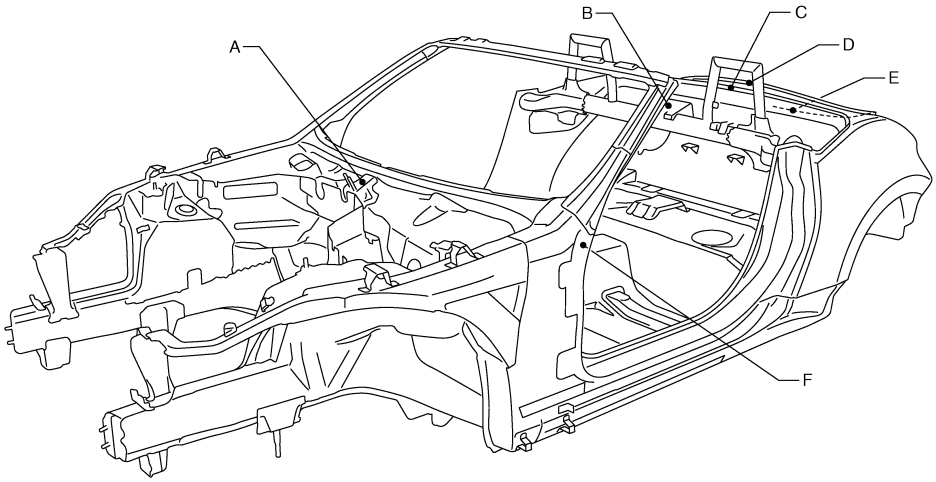
SERVICE DATA AND SPECIFICATIONS (SDS)

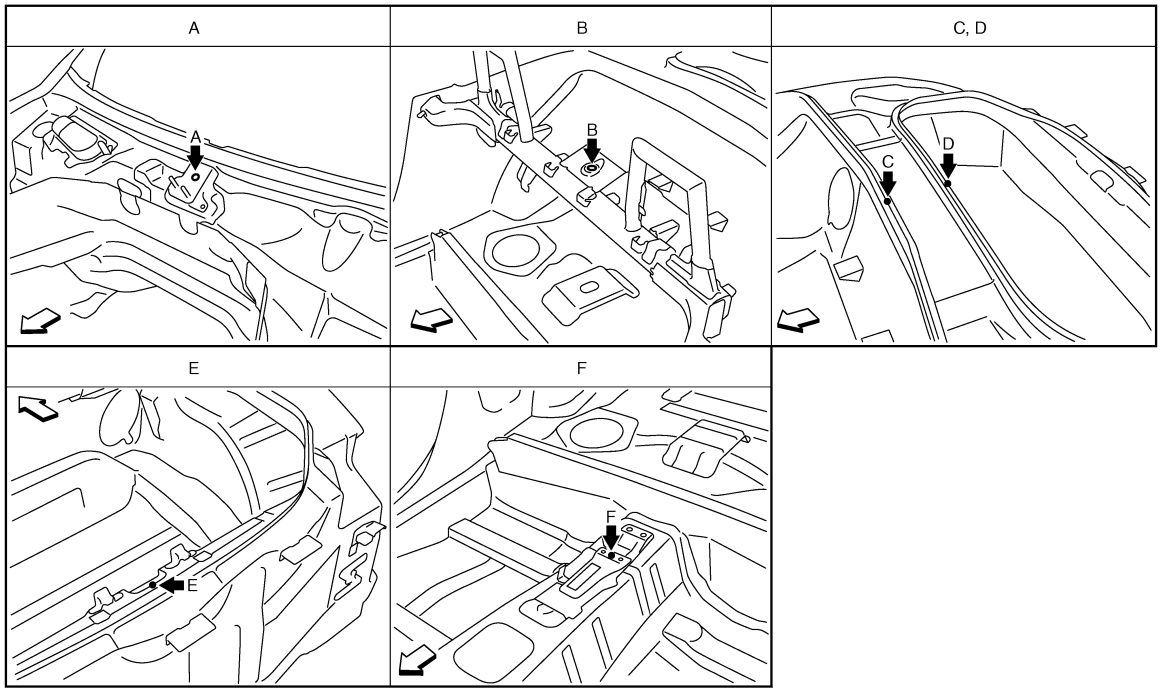
BODY ALIGNMENT

Body Center Marks

INFOID:0000000010837651

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.





JSKIA1532ZZ

⇦: Vehicle front

Unit: mm (in)

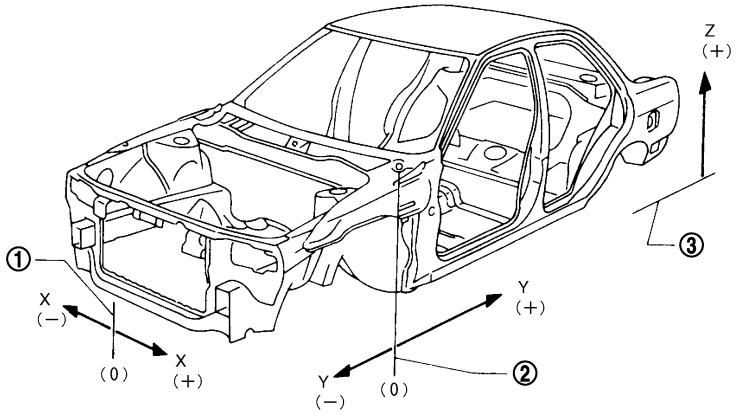
Points	Portion	Marks
A	Upper dash	Hole ϕ8 (0.31)
B	Storage lid lock reinforcement	Hole ϕ16 (0.63)
C, D	Rear waist	Bead

Points	Portion	Marks
E	Rear panel	Indent
F	Trans control reinforcement	Embossment

Description

INFOID:0000000010837652

- 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

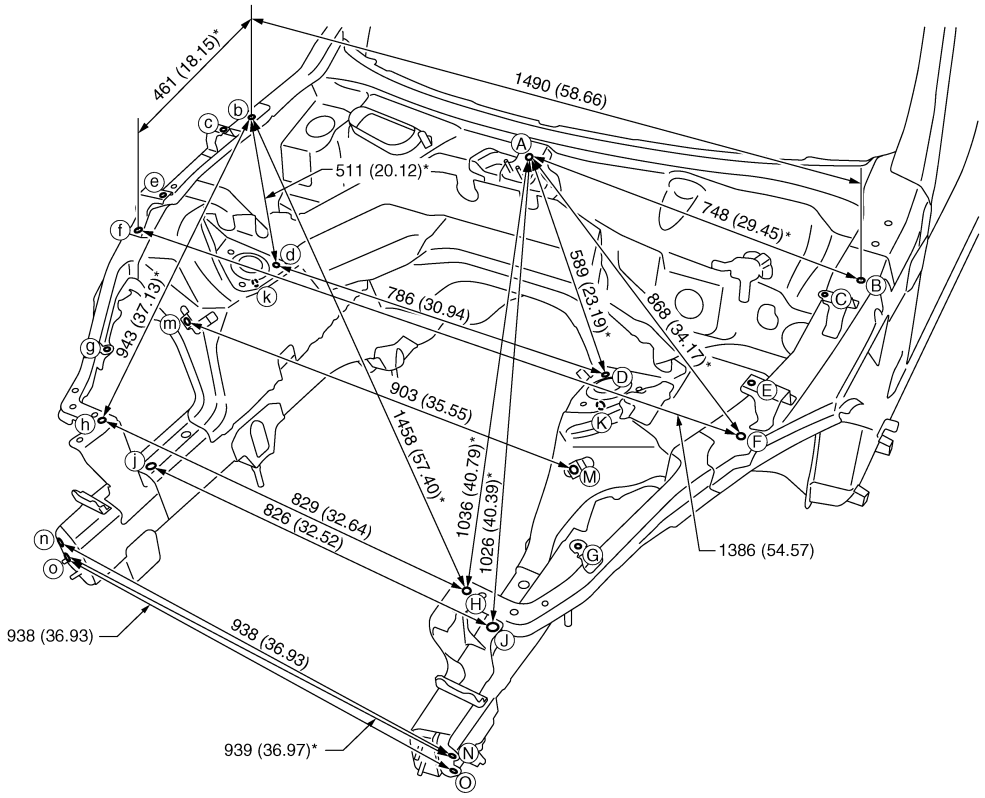
1. Vehicle center
2. Front axle center
3. Imaginary base line

Engine Compartment

INFOID:0000000010837653

MEASUREMENT

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



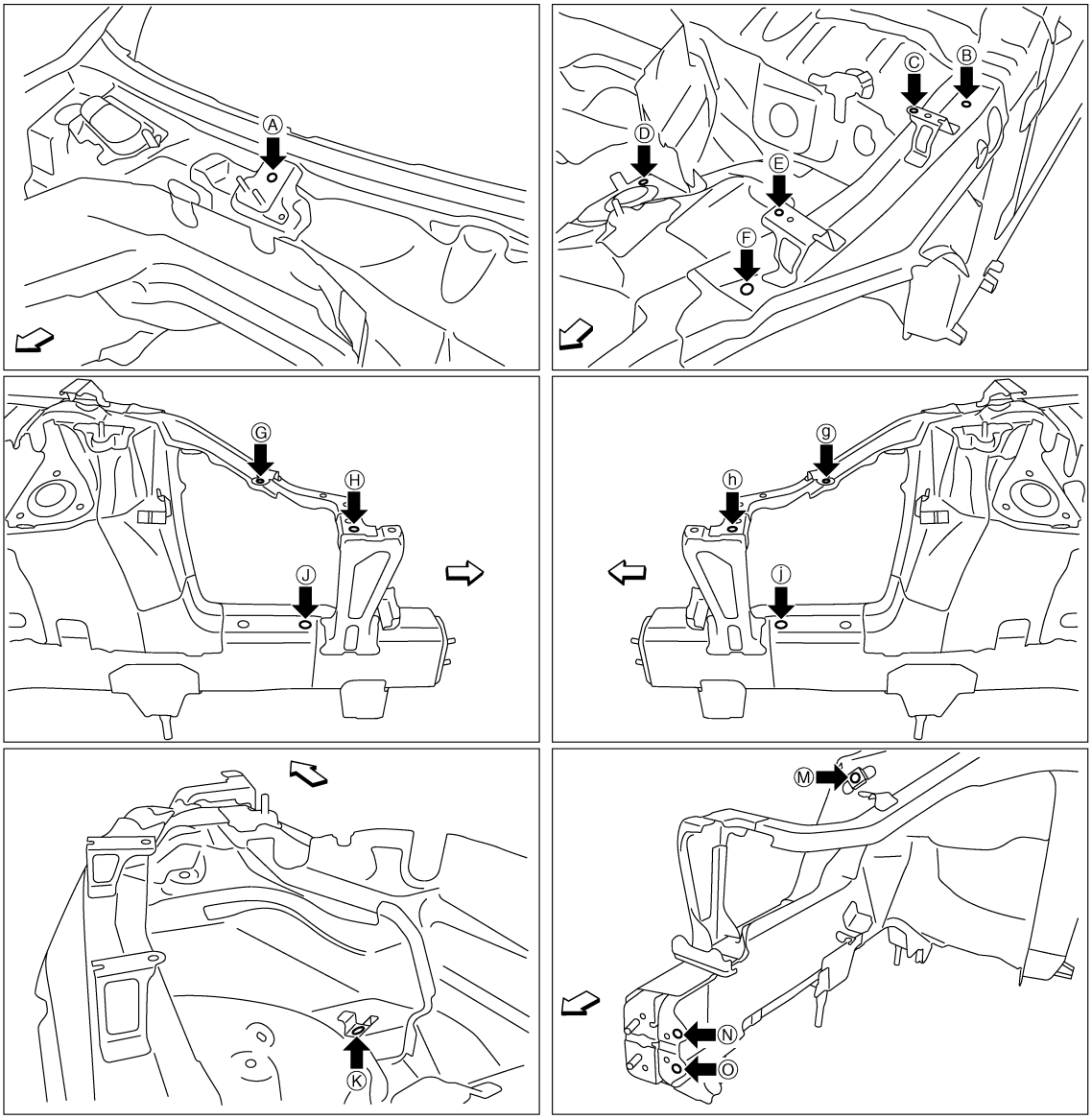
Unit: mm (in)

«The others»

Unit: mm (in)

Point	Dimension	Memo	Point	Dimension	Memo	Point	Dimension	Memo	Point	Dimension	Memo
A - C	735 (28.94)*		B - d	1197 (47.13)*		C - c	1423 (56.02)		F - h	1187 (46.73)*	
A - E	804 (31.65)*		B - E	381 (15.00)*		D - m	875 (34.45)*		G - g	1073 (42.24)	
A - G	967 (38.07)*		B - f	1509 (59.41)*		E - e	1349 (53.11)		K - k	903 (35.55)	
B - C	131 (5.16)*		B - G	767 (30.20)*		F - H	511 (20.12)*				

MEASUREMENT POINTS



JSKIA0885ZZ

⇦: Vehicle front

Unit: mm (in)

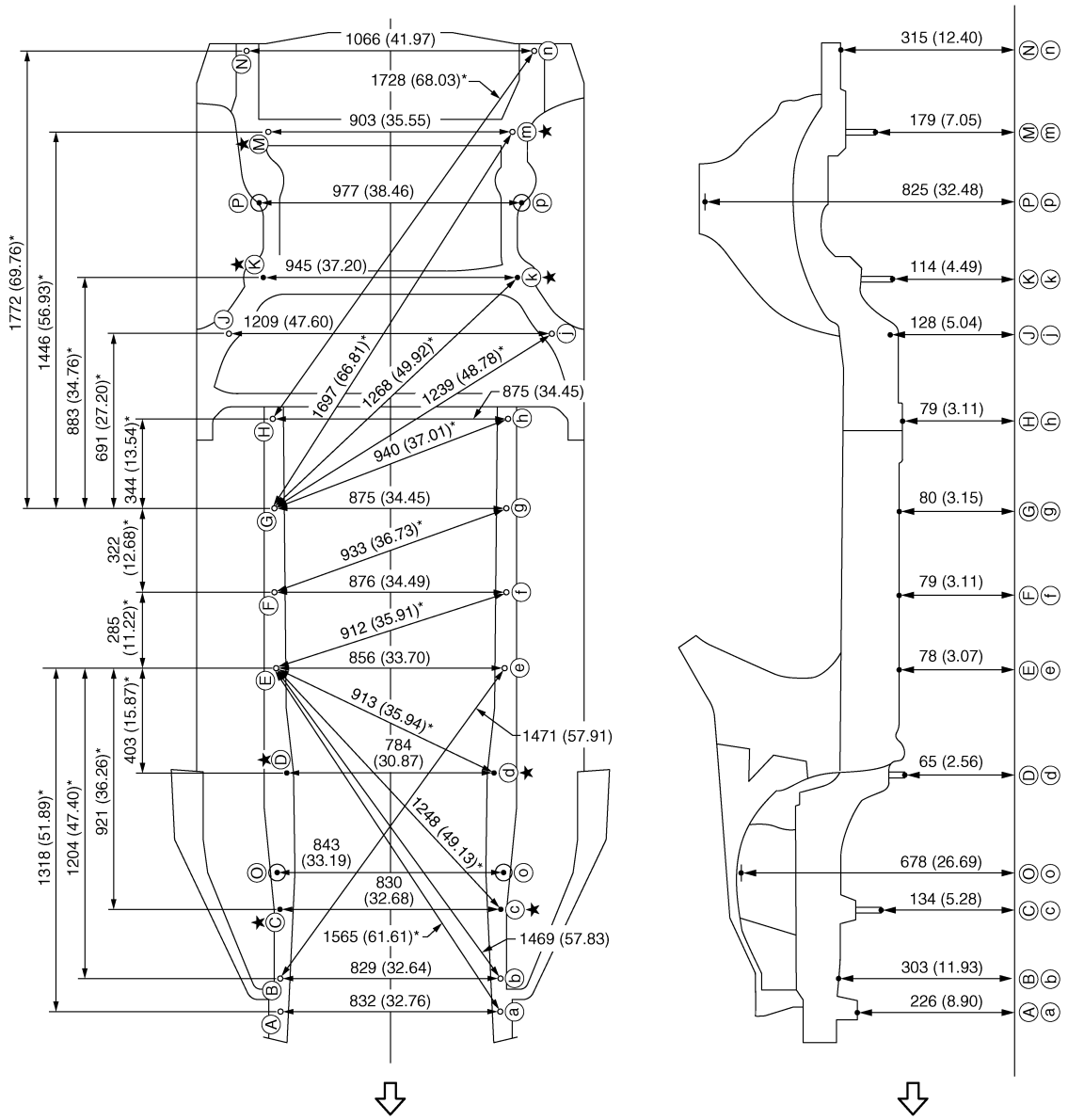
Point	Material	Point	Material
A	Center wiper pivot bracket hole center of center positioning mark ϕ8 (0.31)	H, h	Radiator core support stay hole center ϕ12 (0.47)
B, b, F, f	Hoodledge reinforcement hole center 12×14 (0.47×0.55)	J, j	Front side member hole center ϕ20 (0.79)
C, c, E, e	Front fender installing hole center ϕ7 (0.28)	K, k, M, m	Nut holder hole center ϕ16 (0.63)
D, d	Front strut installing hole center ϕ11 (0.43)	N, n, O, o	Front bumper reinforcement installing hole center ϕ11 (0.43)
G, g	Rear air cleaner bracket hole center ϕ7 (0.28)		

Underbody

INFOID:0000000010837654

MEASUREMENT

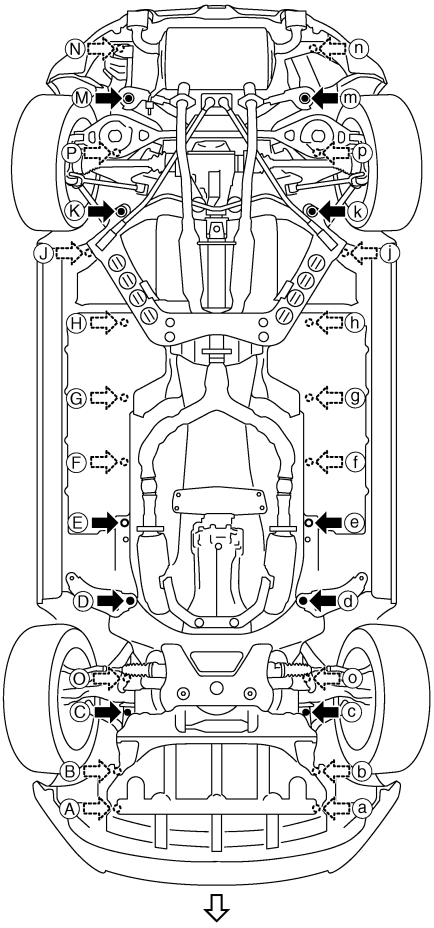
Dimensions marked with "*" indicate symmetrically identical dimensions on both the right and left hand of the vehicle.
The following figure shows a bottom view and a side view of the vehicle.

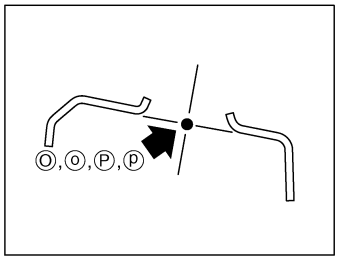


JSKIA0886GB

Unit: mm (in)
⇦: Vehicle front
★: Bolt head

MEASUREMENT POINTS





JSKIA1533ZZ

⇦: Vehicle front

Unit: mm (in)

Points	Coordinates			Remarks	Points	Coordinates			Remarks
	X	Y	Z			X	Y	Z	
A, a	±415.8 (±16.370)	−495.0 (−19.488)	225.6 (8.882)	Hole ϕ13 (0.51)	H, h	±437.5 (±17.224)	1765.5 (69.508)	79.0 (3.110)	Hole ϕ8 (0.31)
B	416.2 (16.386)	−368.0 (−14.488)	303.2 (11.937)	Hole ϕ16 (0.63)	J, j	±604.5 (±23.799)	2090.5 (82.303)	128.3 (5.051)	Hole ϕ16 (0.63)
b	−413.2 (−16.268)	−368.0 (−14.488)	303.2 (11.937)	Hole ϕ16 (0.63)	K, k	±472.6 (±18.606)	2303.8 (90.701)	114.0 (4.488)	Bolt head
C, c	±415.0 (±16.339)	−104.0 (−4.094)	133.5 (5.256)	Bolt head	M, m	±451.5 (±17.776)	2863.9 (112.752)	179.1 (7.051)	Bolt head
D, d	±392.0 (±15.433)	414.0 (16.299)	64.5 (2.539)	Bolt head	N, n	±533.0 (±20.984)	3175.0 (125.000)	315.4 (12.417)	Hole ϕ16 (0.63)
E, e	±428.0 (±16.850)	815.0 (32.087)	78.4 (3.087)	Hole 16×20 (0.63×0.79)	O, o	±421.6 (±16.598)	38.2 (1.504)	677.9 (26.689)	Hole ϕ50.1 (1.972)

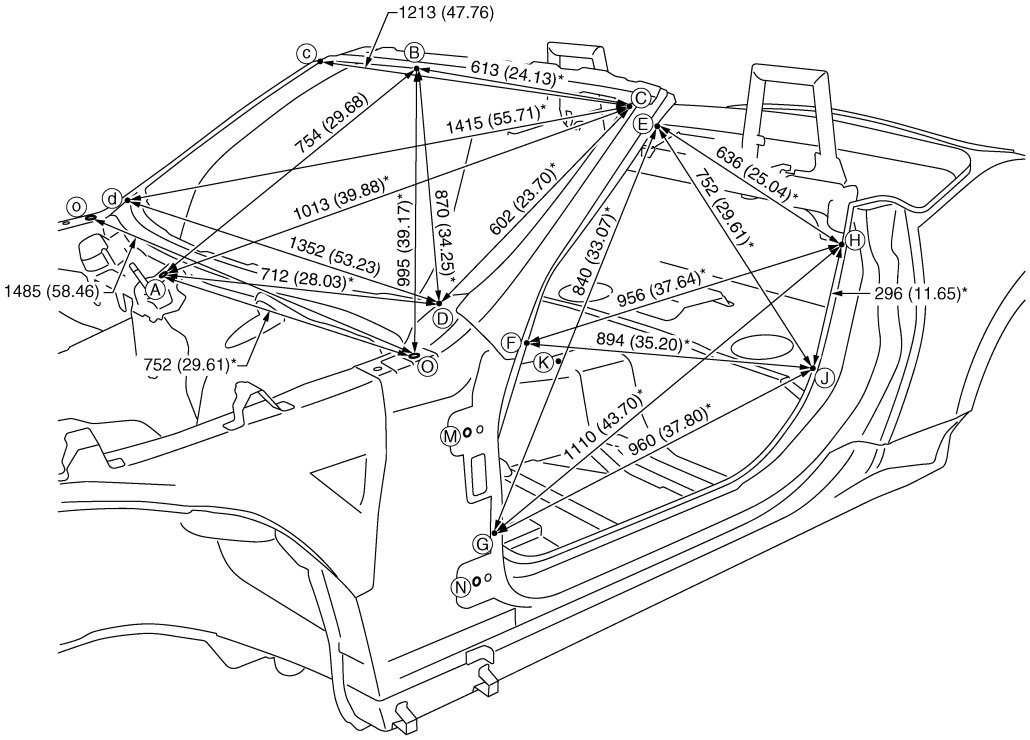
Points	Coordinates			Remarks	Points	Coordinates			Remarks
	X	Y	Z			X	Y	Z	
F, f	±438.0 (±17.244)	1100.0 (43.307)	79.0 (3.110)	Hole ϕ16 (0.63)	P, p	±488.4 (±19.228)	2591.7 (102.035)	825.0 (32.480)	Hole ϕ68 (2.68)
G, g	±437.5 (±17.224)	1421.8 (55.976)	80.0 (3.150)	Hole ϕ8 (0.31)					

Passenger Compartment

INFOID:0000000010837655

MEASUREMENT

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



JSKIA1534GB

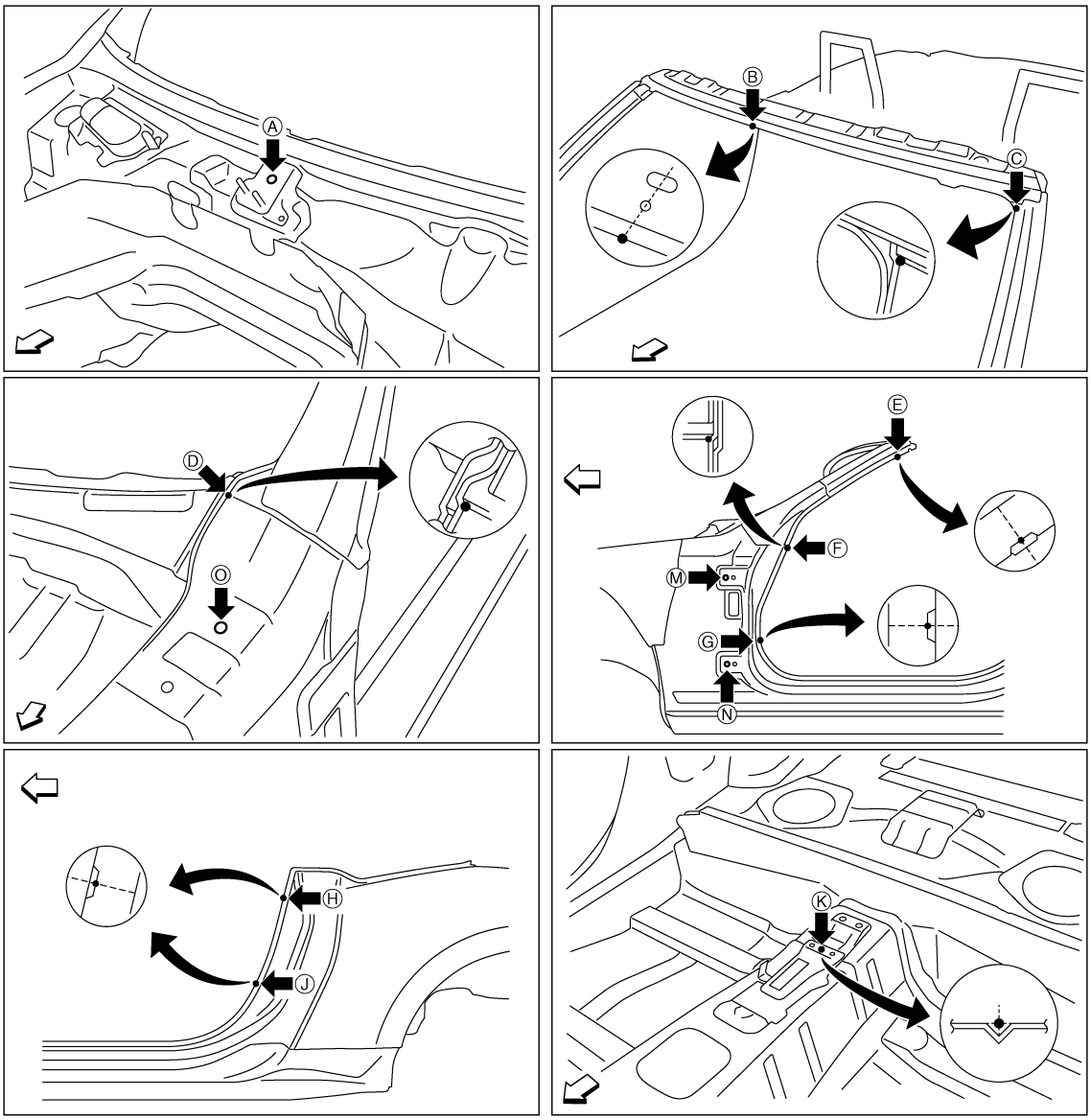
Unit: mm (in)

«The others»

Unit: mm (in)

Point	Dimension	Memo	Point	Dimension	Memo	Point	Dimension	Memo	Point	Dimension	Memo
E - e	1275 (50.20)		F - j	1713 (67.44)*		J - j	1471 (57.91)		M - m	1615 (63.58)	
E - g	1599 (62.95)*		G - g	1452 (57.17)		K - E	1024 (40.31)*		M - H	1167 (45.94)*	
E - h	1499 (59.02)*		G - h	1825 (71.85)*		K - F	1094 (43.07)*		M - J	1074 (42.28)*	
E - j	1562 (61.50)*		G - j	1749 (68.86)*		K - G	1095 (43.11)*		N - n	1649 (64.92)	
F - f	1452 (57.17)		H - h	1445 (56.89)		K - H	871 (34.29)*		N - H	1230 (48.43)*	
F - h	1736 (68.35)*		H - j	1488 (58.58)*		K - J	763 (30.04)*		N - J	1071 (42.17)*	

MEASUREMENT POINTS



JSKIA1535ZZ

⇦: Vehicle front

Unit: mm (in)

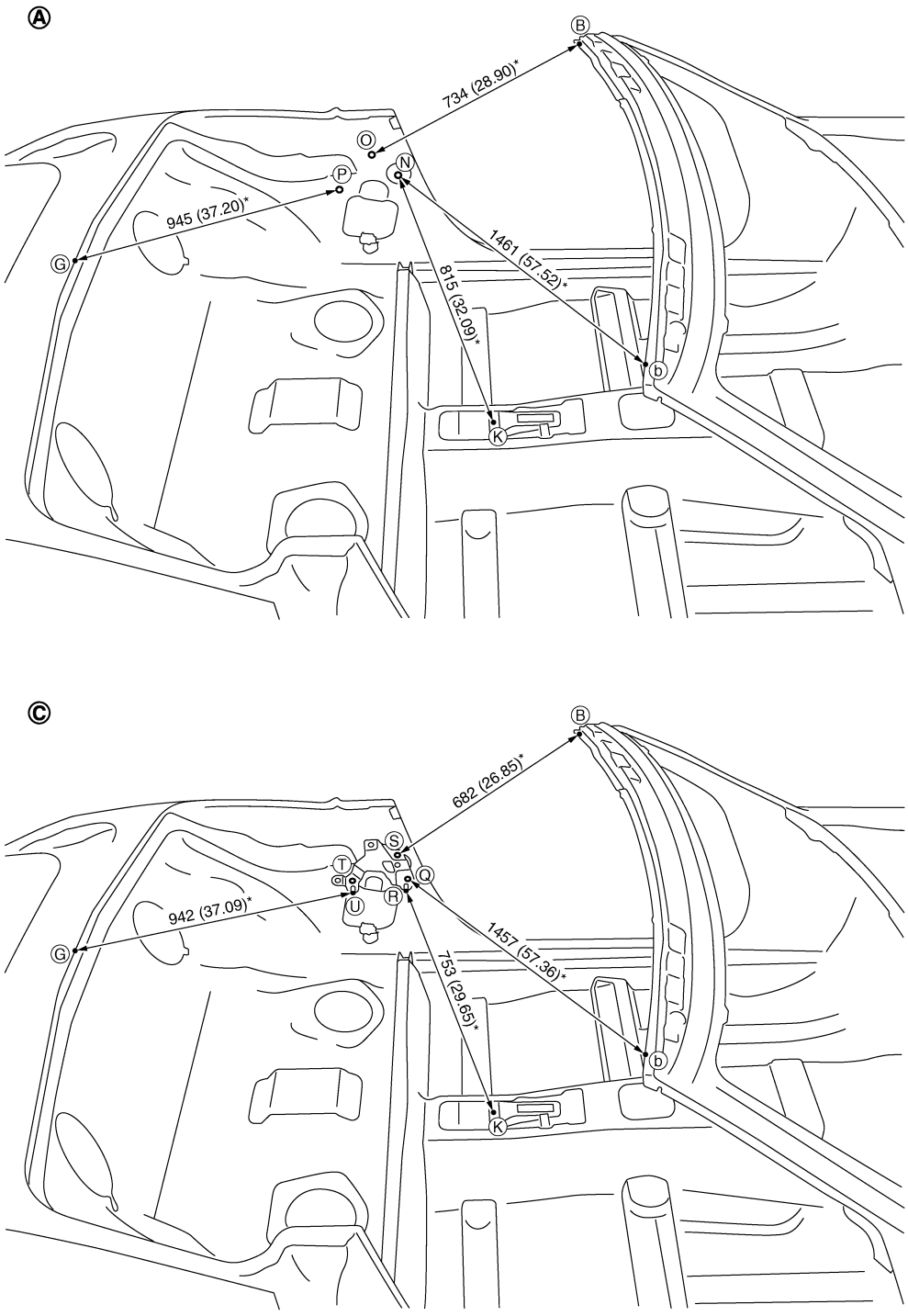
Point	Material	Point	Material
A	Center wiper pivot bracket hole center of center positioning mark ϕ8 (0.31)	G, g	Front pillar hinge brace indent
B	Front roof rail reinforcement flange end	H, h, J, j	Rear fender indent
C, c	Front pillar joggle	K	Trans control reinforcement positioning mark of center positioning mark
D, d, F, f	Front pillar hinge brace joggle	M, m, N, n	Door hinge installing hole center ϕ12 (0.47)
E, e	Front pillar indent	O, o	Hood hinge installing hole center ϕ11 (0.43)

Soft Top Mounting Bracket

INFOID:0000000010837656

MEASUREMENT

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



JSKIA1536GB

A. After the removal of roof mounting bracket.
C. Before the removal of roof mounting bracket.

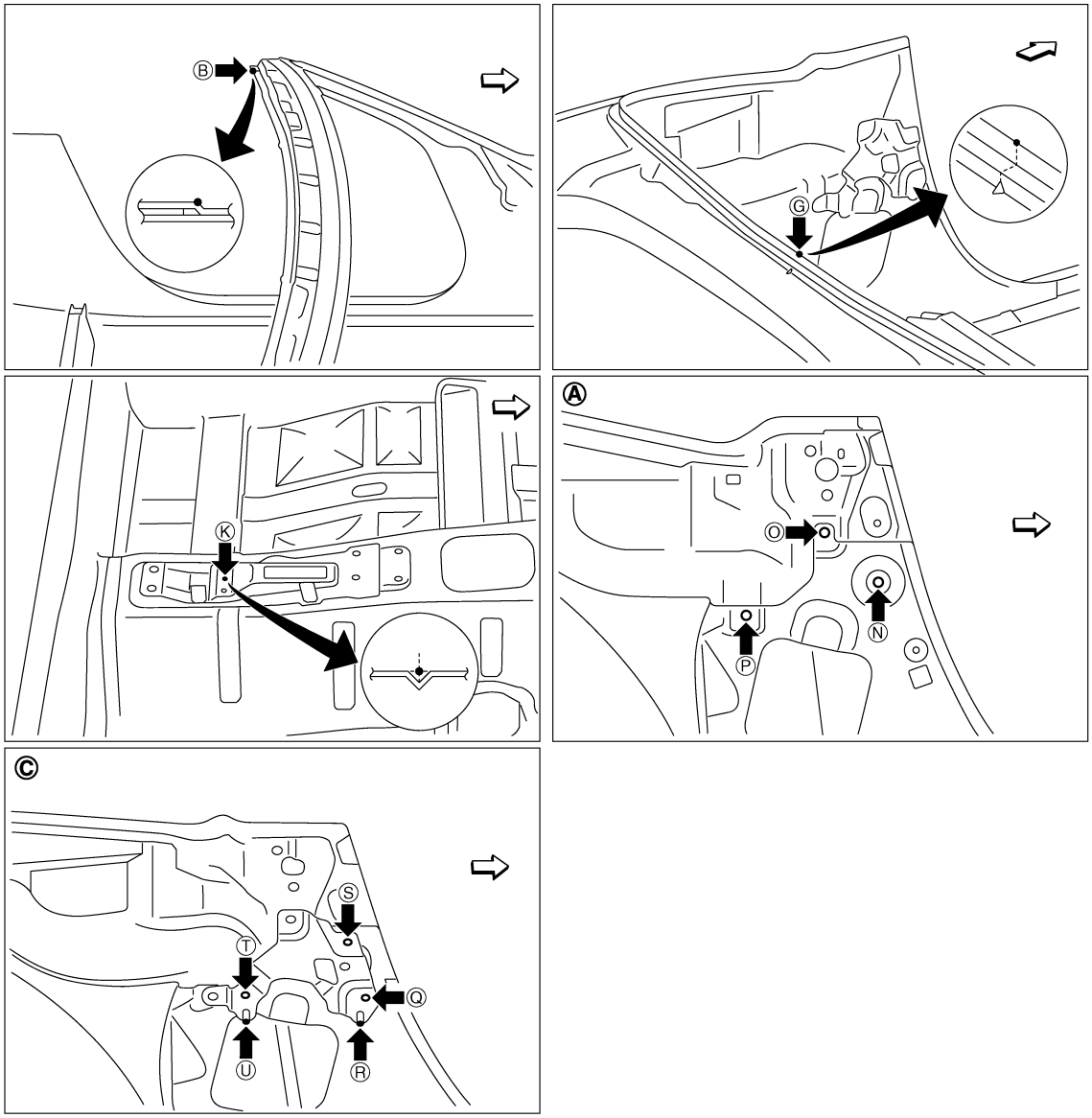
Unit: mm (in)

«The others»

Unit: mm (in)

Point	Dimension	Memo	Point	Dimension	Memo	Point	Dimension	Memo	Point	Dimension	Memo
B - N	720 (28.35)*		G - N	1041 (40.98)*		N - n	1423 (56.02)		R - s	1376 (54.17)*	
B - o	1479 (58.23)*		G - O	985 (38.78)*		N - o	1440 (56.69)*		R - t	1375 (54.13)*	
B - P	882 (34.72)*		G - Q	1065 (41.93)*		N - p	1436 (56.54)*		R - u	1351 (53.19)*	
B - p	1548 (60.94)*		G - R	1053 (41.46)*		O - o	1450 (57.09)		S - s	1390 (54.72)	
B - Q	731 (28.78)*		G - S	1020 (40.16)*		O - p	1446 (56.93)*		S - t	1394 (54.88)*	
B - R	750 (29.53)*		G - T	950 (37.40)*		P - p	1424 (56.06)		S - u	1372 (54.02)*	
B - r	1449 (57.05)*		K - O	878 (34.57)*		Q - q	1400 (55.12)		T - t	1380 (54.33)	
B - s	1429 (56.26)*		K - P	875 (34.45)*		Q - r	1376 (54.17)*		T - u	1357 (53.43)*	
B - T	837 (32.95)*		K - Q	781 (30.75)*		Q - s	1398 (55.04)*		U - u	1332 (52.44)	
B - t	1506 (59.29)*		K - S	818 (32.20)*		Q - t	1400 (55.12)*				
B - U	851 (33.50)*		K - T	839 (33.03)*		Q - u	1376 (54.17)*				
B - u	1496 (58.90)*		K - U	811 (31.93)*		R - r	1352 (53.23)				

MEASUREMENT POINTS



JSKIA1537ZZ

A. After the removal of roof mounting bracket.
C. Before the removal of roof mounting bracket.

⇦: Vehicle front

Unit: mm (in)

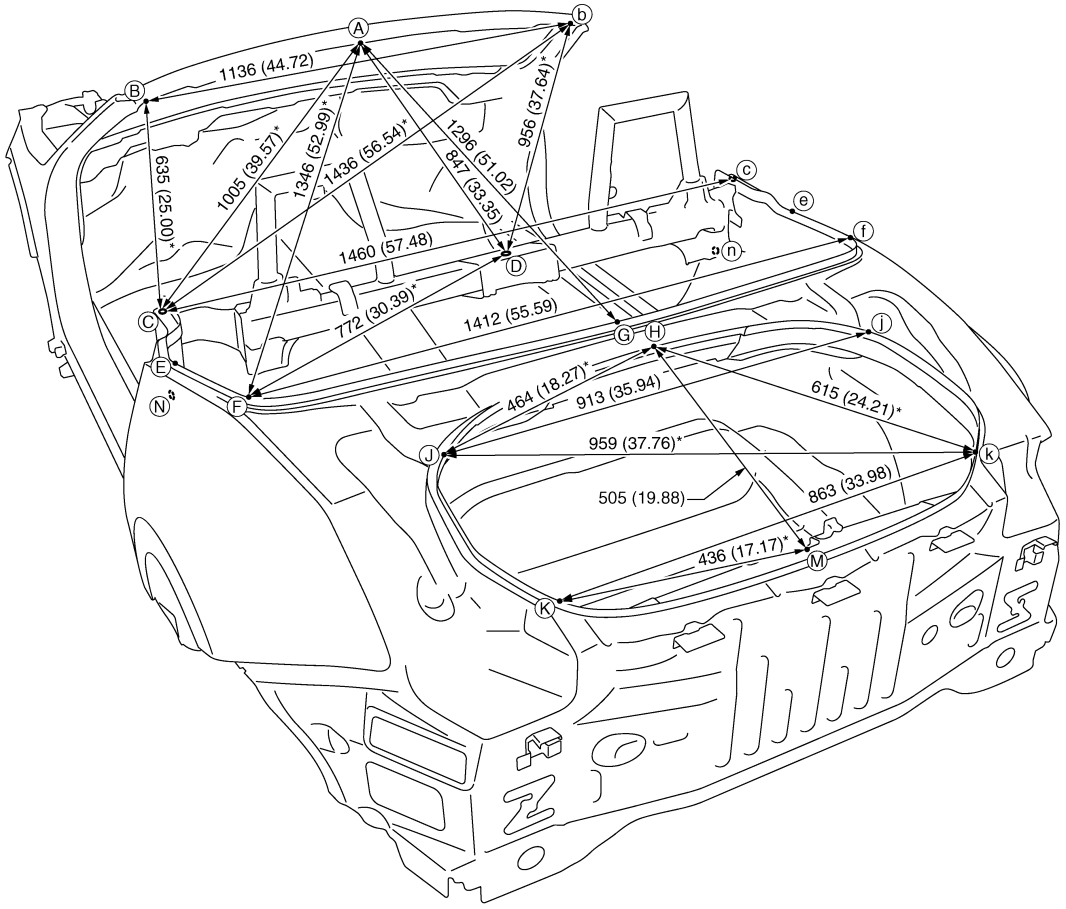
Point	Material	Point	Material
B, b	Front roof rail reinforcement joggle	N, n, O, o, P, p	Lower inner rear pillar hole center ϕ15 (0.59)
G	Rear waist flange end of center positioning mark	Q, q, S, s, T, t	Folding roof mounting bracket hole center ϕ9 (0.35)
K	Trans control reinforcement positioning mark of center positioning mark	R, r, U, u	Folding roof mounting bracket pin top

Rear Body

INFOID:0000000010837657

MEASUREMENT

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



JSKIA1538GB

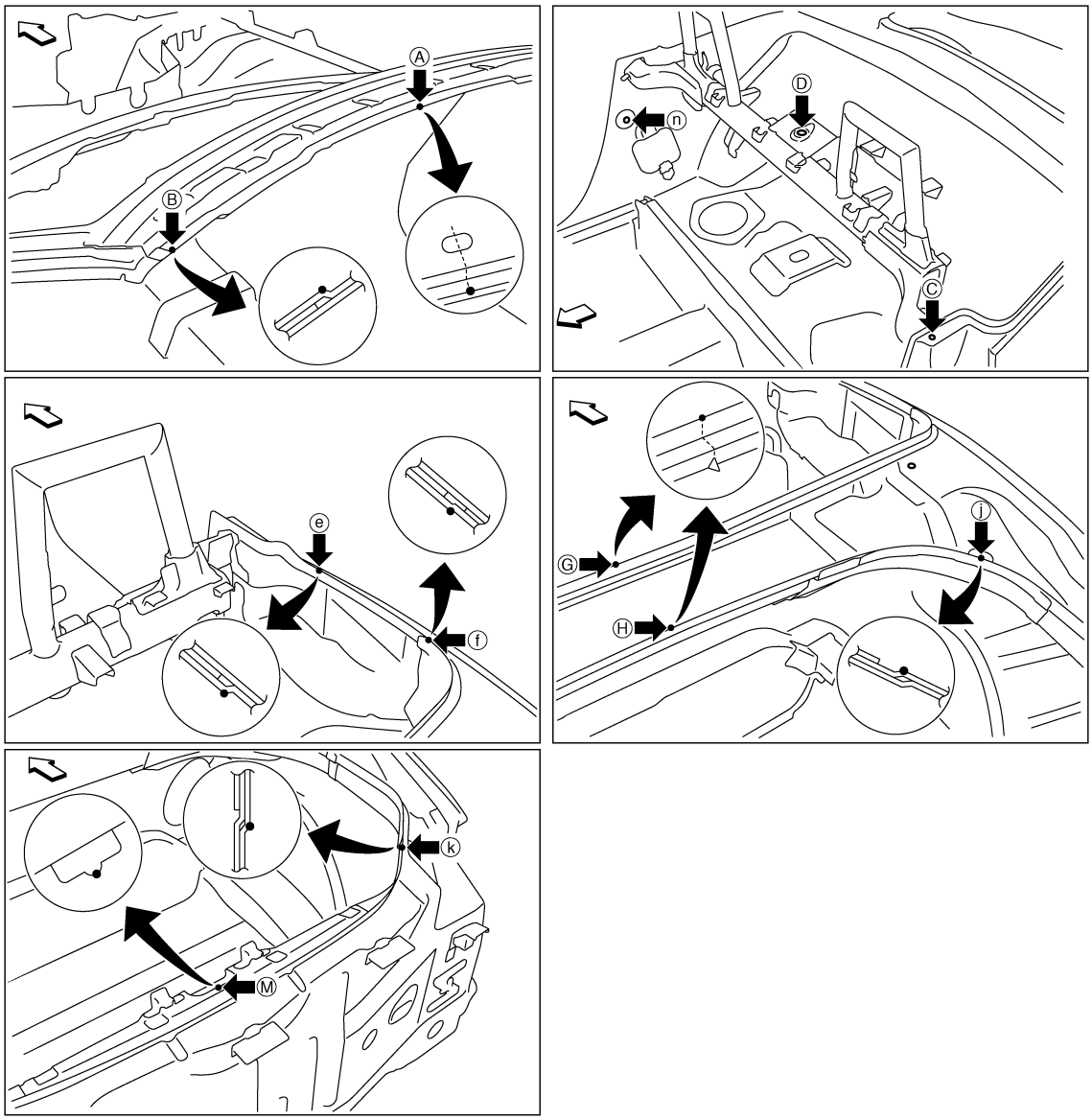
Unit: mm (in)

«The others»

Unit: mm (in)

Point	Dimension	Memo	Point	Dimension	Memo	Point	Dimension	Memo	Point	Dimension	Memo
A - E	1173 (46.18)*		B - J	1430 (56.30)*		D - E	765 (30.12)*		F - G	726 (28.58)*	
A - H	1431 (56.34)*		B - K	1793 (70.59)		D - G	475 (18.70)*		J - K	363 (14.29)	
A - J	1571 (61.85)*		b - k	1794 (70.63)		D - H	614 (24.17)*		j - k	364 (14.33)	
A - N	1052 (41.42)*		B - N	720 (28.35)*		D - J	816 (32.13)*		J - M	626 (24.65)*	
B - F	1077 (42.40)*		B - n	1461 (57.52)*		E - e	1526 (60.08)		N - n	1423 (56.02)	
B - f	1663 (65.47)*		C - D	754 (29.68)*		E - f	1497 (58.94)*				
B - G	1345 (52.95)*		C - G	987 (38.86)*		E - G	890 (35.04)*				

MEASUREMENT POINTS



JSKIA1539ZZ

⇦: Vehicle front

Unit: mm (in)

Point	Material	Point	Material
A	Front roof rail reinforcement flange end	G, H	Rear waist flange end of center positioning mark
B, b	Front roof rail reinforcement joggle	J, j	Rear fender extension joggle
C, c	Rear fender extension hole center ϕ5 (0.20)	K, k	Rear combination lamp base joggle
D	Storage lid lock reinforcement hole center ϕ16 (0.63)	M	Upper rear panel reinforcement indent of center positioning mark
E, e	Inner rear pillar joggle	N, n	Inner rear pillar hole center ϕ15 (0.59)
F, f	Inner rear side extension joggle		

LOCATION OF PLASTIC PARTS

Precautions for Plastics

INFOID:0000000010837658

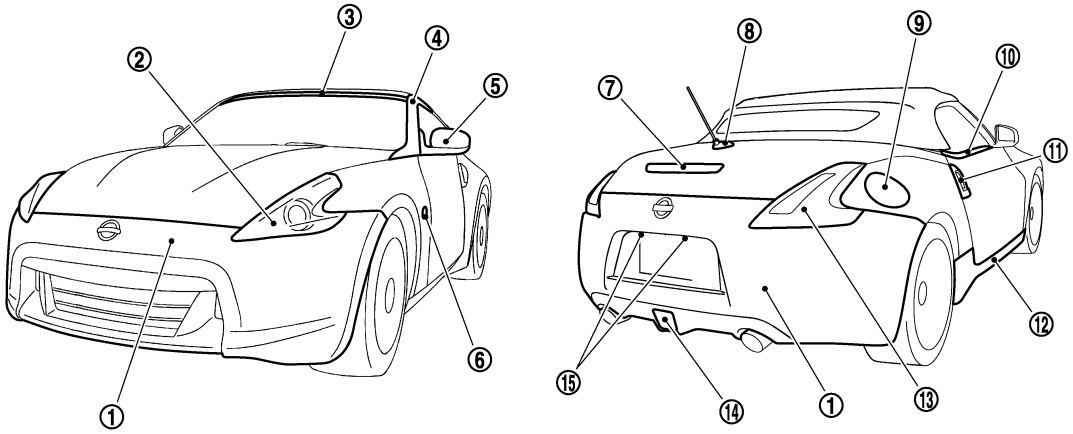
Abbreviation	Material name	Heat resisting temperature °C (°F)	Resistance to gasoline and solvents	Other cautions
PE	Polyethylene	60 (140)	Gasoline and most solvents are harmless if applied for a very short time (wipe out quickly).	Flammable
ABS	Acrylonitrile Butadiene Styrene	80 (176)	Avoid gasoline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

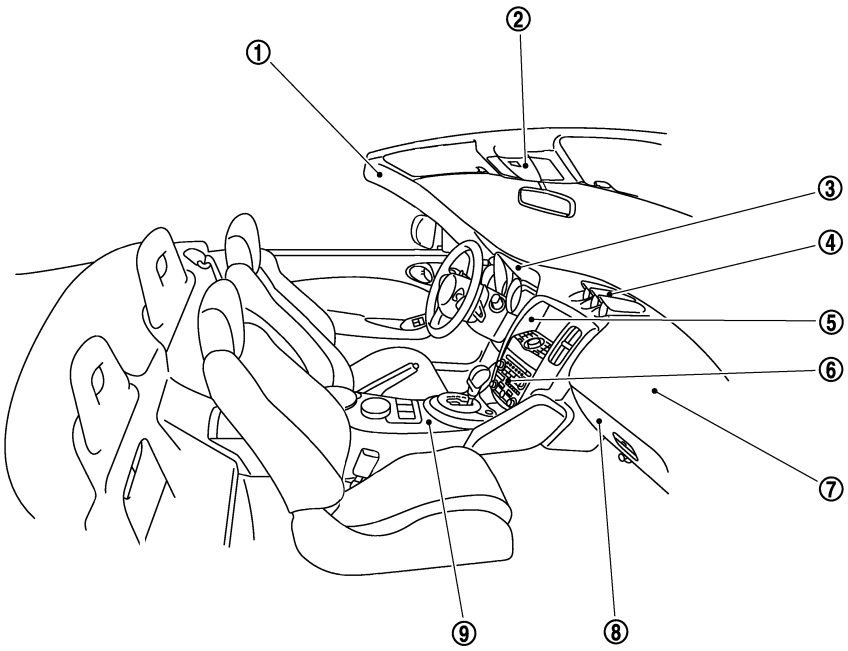
Location of Plastic Parts

INFOID:0000000010837659



JSKIA1582ZZ

Component			Material	Component			Material
1	Bumper fascia		PP + EPM	8	Antenna base cover		ASA + PC
2	Front combination lamp	Lens	PC	9	Fuel filler lid		PA + PPE
		Housing	PP	10	Door outside molding		PVC + Stainless
3	Upper windshield molding		PVC	11	Door outside handle		PC + ABS
4	Front pillar finisher		PC + PET	12	Center mudguard		PP + EPM
5	Door outside mirror	Cover	ABS	13	Rear combination lamp	Lens	PMMA
		Housing	ASA			Housing	PP
		Base	PA + Glass fiber	14	Rear fog lamp	Lens	PMMA
6	Side turn signal lamp	Lens	PMMA			Housing	ABS
		Housing	ABS	15	License plate lamp	Lens	PMMA
7	High mount stop lamp	Lens	PMMA			Housing	PC
		Housing	ASA				



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Component			Material	Component			Material
1	Front pillar garnish		PP	6	Cluster lid C finisher		PC + ABS
2	Map lamp	Lens	PC	7	Instrument panel	Skin	TPU
		Housing	PP			Pad	PP
3	Cluster lid A		PP	8	Glove box		PP
4	Triple meter panel		PP	9	Center console		PP
5	Cluster lid C		PC + ABS				

HOW TO USE THIS MANUAL

APPLICATION NOTICE

Information

INFOID:0000000010837660

Check the vehicle type to use the service information in this section.

Service information	Destination
TYPE 1	COUPE (REGULAR GRADE FOR USA AND CANADA)
TYPE 2	COUPE (Nismo 370Z)
TYPE 3	ROADSTER (FOR USA AND CANADA)
TYPE 4	COUPE (FOR MEXICO)

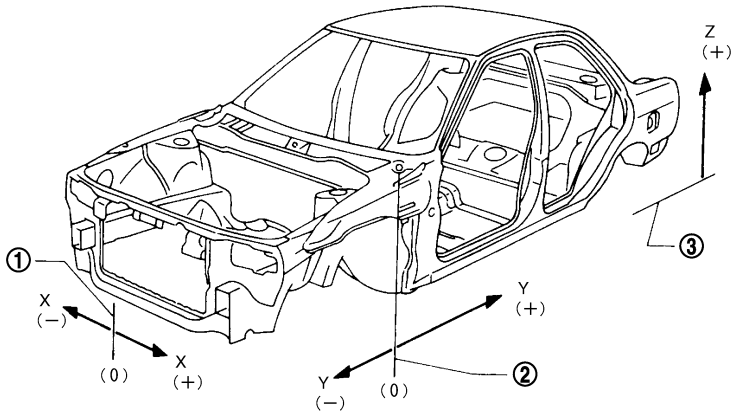
SERVICE DATA AND SPECIFICATIONS (SDS)

BODY ALIGNMENT

Description

INFOID:0000000010837661

- 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

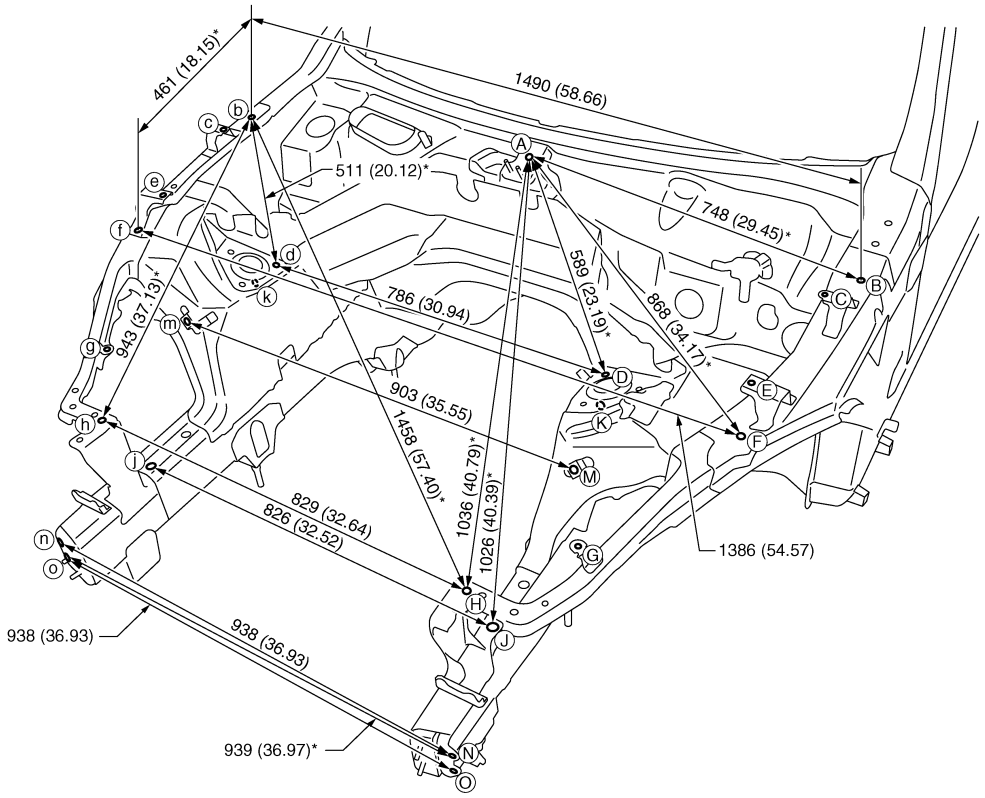
1. Vehicle center
2. Front axle center
3. Imaginary base line

Engine Compartment

INFOID:0000000010837662

MEASUREMENT

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



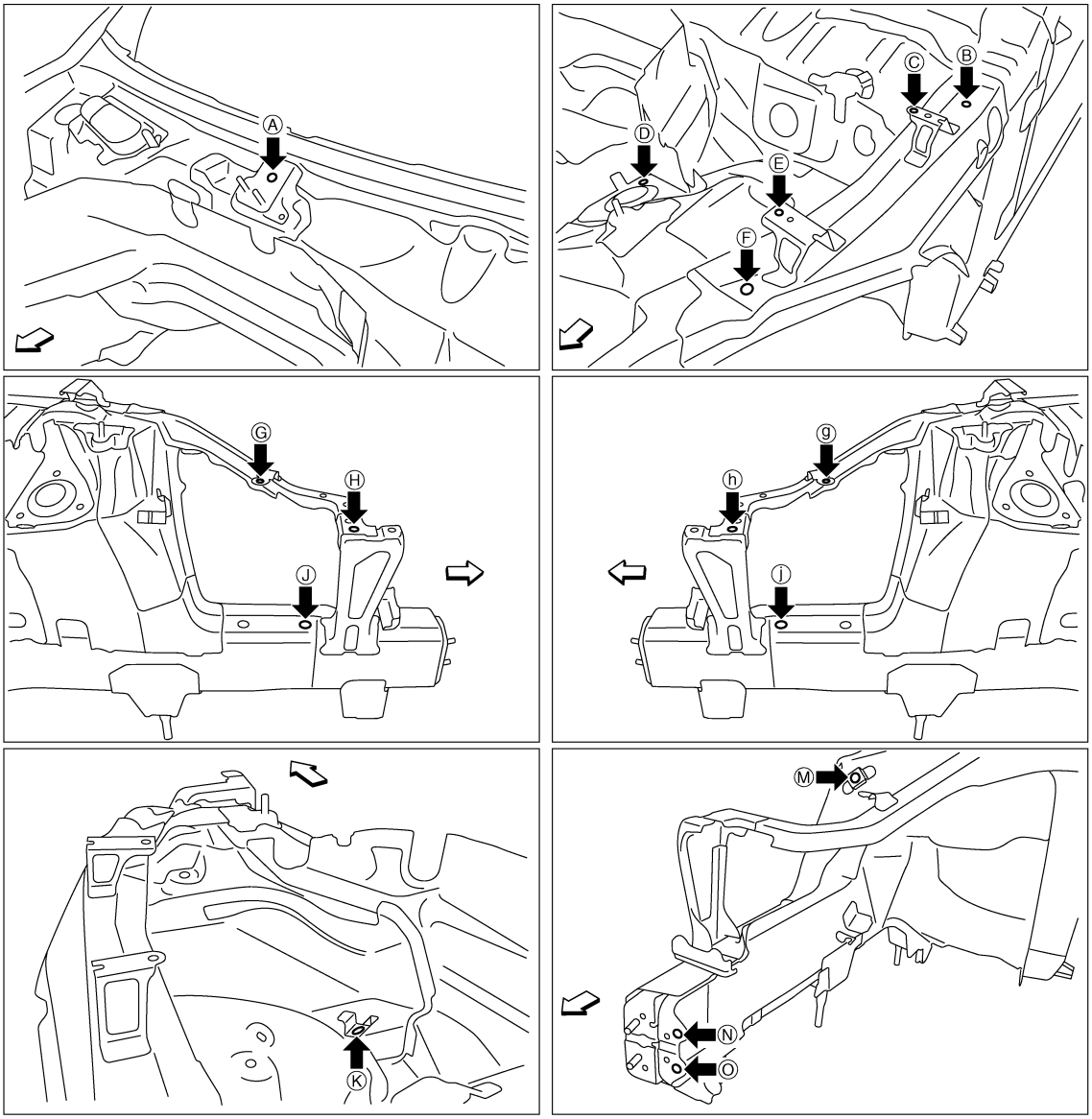
Unit: mm (in)

«The others»

Unit: mm (in)

Point	Dimension	Memo	Point	Dimension	Memo	Point	Dimension	Memo	Point	Dimension	Memo
A - C	735 (28.94)*		B - d	1197 (47.13)*		C - c	1423 (56.02)		F - h	1187 (46.73)*	
A - E	804 (31.65)*		B - E	381 (15.00)*		D - m	875 (34.45)*		G - g	1073 (42.24)	
A - G	967 (38.07)*		B - f	1509 (59.41)*		E - e	1349 (53.11)		K - k	903 (35.55)	
B - C	131 (5.16)*		B - G	767 (30.20)*		F - H	511 (20.12)*				

MEASUREMENT POINTS



JSKIA0885ZZ

⇦: Vehicle front

Unit: mm (in)

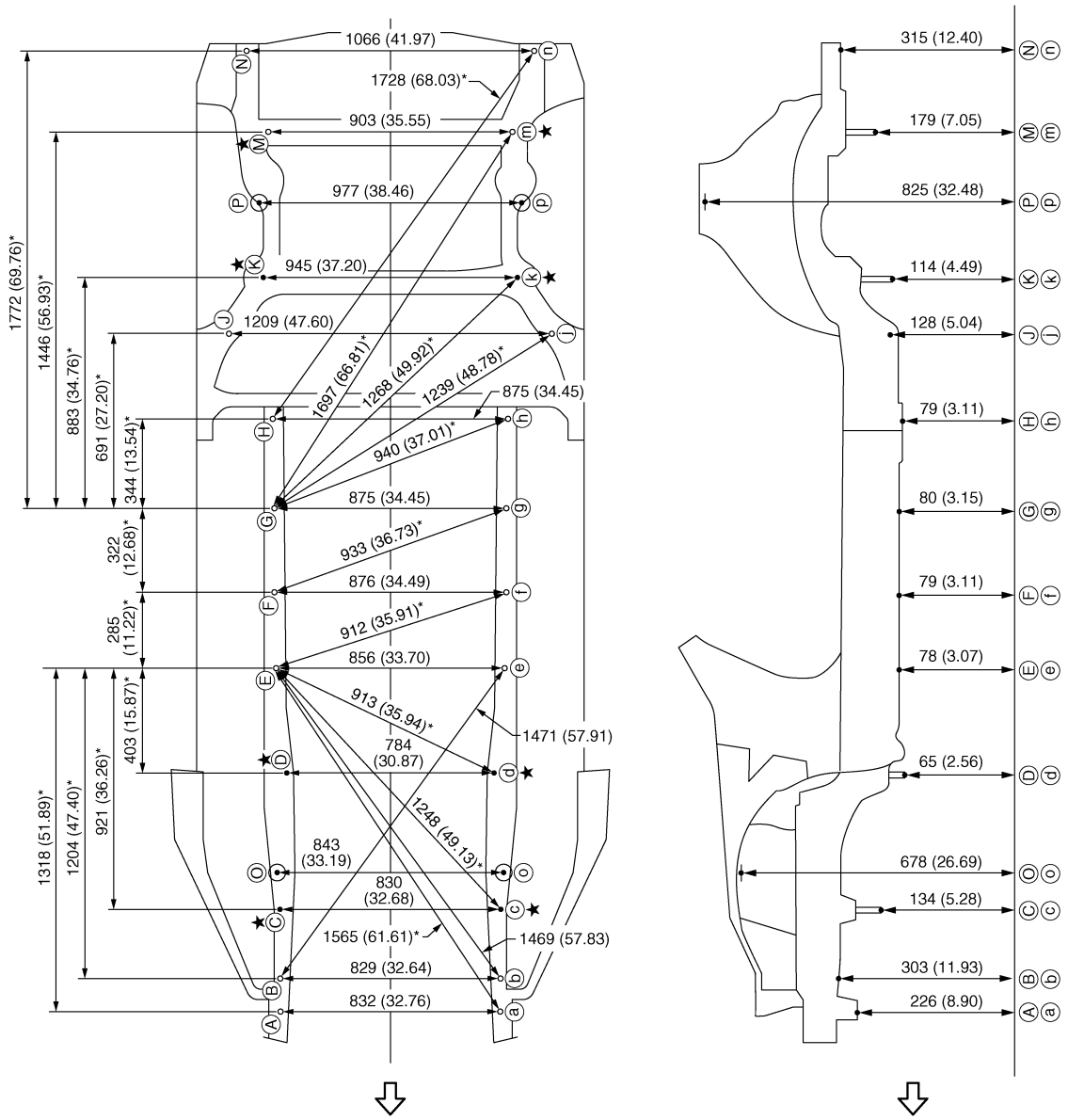
Point	Material	Point	Material
A	Center wiper pivot bracket hole center of center positioning mark ϕ8 (0.31)	H, h	Radiator core support stay hole center ϕ12 (0.47)
B, b, F, f	Hoodledge reinforcement hole center 12×14 (0.47×0.55)	J, j	Front side member hole center ϕ20 (0.79)
C, c, E, e	Front fender installing hole center ϕ7 (0.28)	K, k, M, m	Nut holder hole center ϕ16 (0.63)
D, d	Front strut installing hole center ϕ11 (0.43)	N, n, O, o	Front bumper reinforcement installing hole center ϕ11 (0.43)
G, g	Rear air cleaner bracket hole center ϕ7 (0.28)		

Underbody

INFOID:0000000010837663

MEASUREMENT

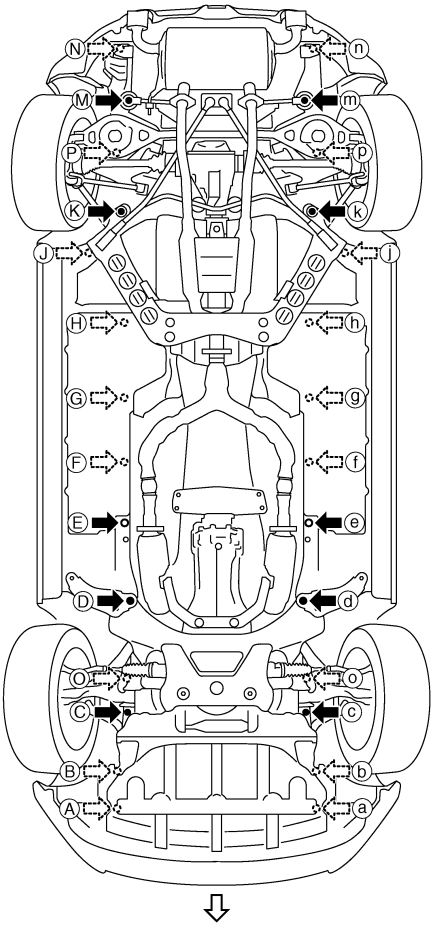
Dimensions marked with "*" indicate symmetrically identical dimensions on both the right and left hand of the vehicle.
The following figure shows a bottom view and a side view of the vehicle.

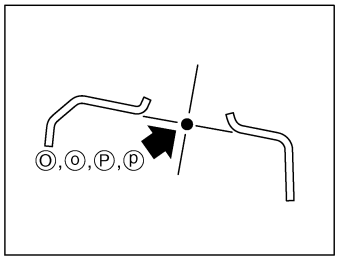


JSKIA0886GB

Unit: mm (in)
⇦: Vehicle front
★: Bolt head

MEASUREMENT POINTS





JSKIA0887ZZ

⇦: Vehicle front

Unit: mm (in)

Points	Coordinates			Remarks	Points	Coordinates			Remarks
	X	Y	Z			X	Y	Z	
A, a	±415.8 (±16.370)	−495.0 (−19.488)	225.6 (8.882)	Hole ϕ13 (0.51)	H, h	±437.5 (±17.224)	1765.5 (69.508)	79.0 (3.110)	Hole ϕ8 (0.31)
B	416.2 (16.386)	−368.0 (−14.488)	303.2 (11.937)	Hole ϕ16 (0.63)	J, j	±604.5 (±23.799)	2090.5 (82.303)	128.3 (5.051)	Hole ϕ16 (0.63)
b	−413.2 (−16.268)	−368.0 (−14.488)	303.2 (11.937)	Hole ϕ16 (0.63)	K, k	±472.6 (±18.606)	2303.8 (90.701)	114.0 (4.488)	Bolt head
C, c	±415.0 (±16.339)	−104.0 (−4.094)	133.5 (5.256)	Bolt head	M, m	±451.5 (±17.776)	2863.9 (112.752)	179.1 (7.051)	Bolt head
D, d	±392.0 (±15.433)	414.0 (16.299)	64.5 (2.539)	Bolt head	N, n	±533.0 (±20.984)	3175.0 (125.000)	315.4 (12.417)	Hole ϕ16 (0.63)
E, e	±428.0 (±16.850)	815.0 (32.087)	78.4 (3.087)	Hole 16×20 (0.63×0.79)	O, o	±421.6 (±16.598)	38.2 (1.504)	677.9 (26.689)	Hole ϕ50.1 (1.972)

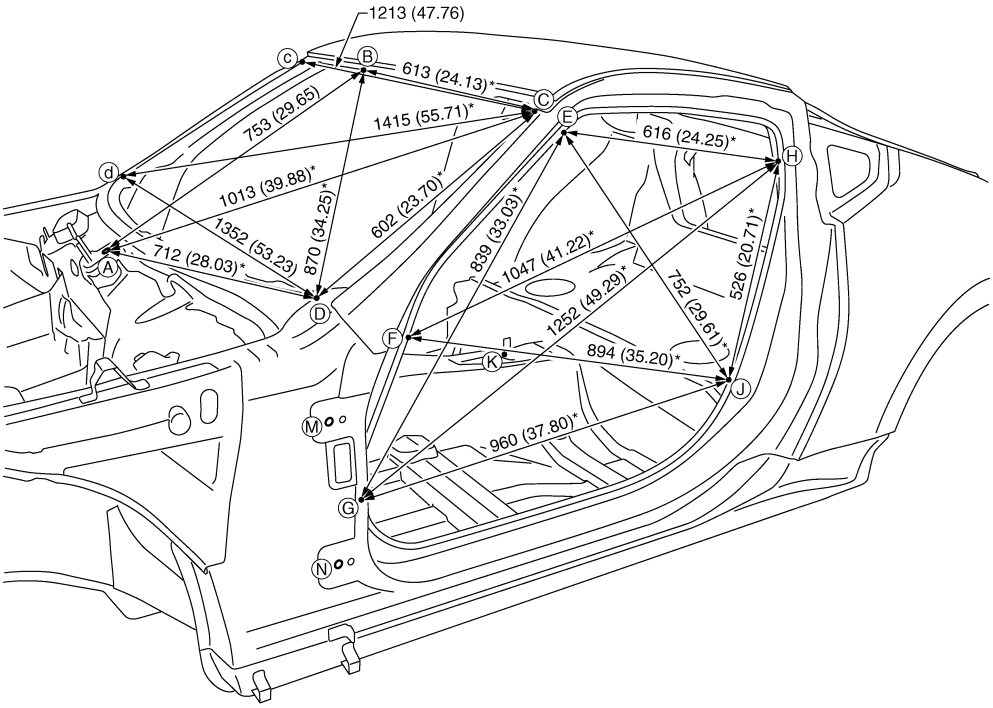
Points	Coordinates			Remarks	Points	Coordinates			Remarks
	X	Y	Z			X	Y	Z	
F, f	±438.0 (±17.244)	1100.0 (43.307)	79.0 (3.110)	Hole ϕ16 (0.63)	P, p	±488.4 (±19.228)	2591.7 (102.035)	825.0 (32.480)	Hole ϕ68 (2.68)
G, g	±437.5 (±17.224)	1421.8 (55.976)	80.0 (3.150)	Hole ϕ8 (0.31)					

Passenger Compartment

INFOID:0000000010837664

MEASUREMENT

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



JSKIA0888GB

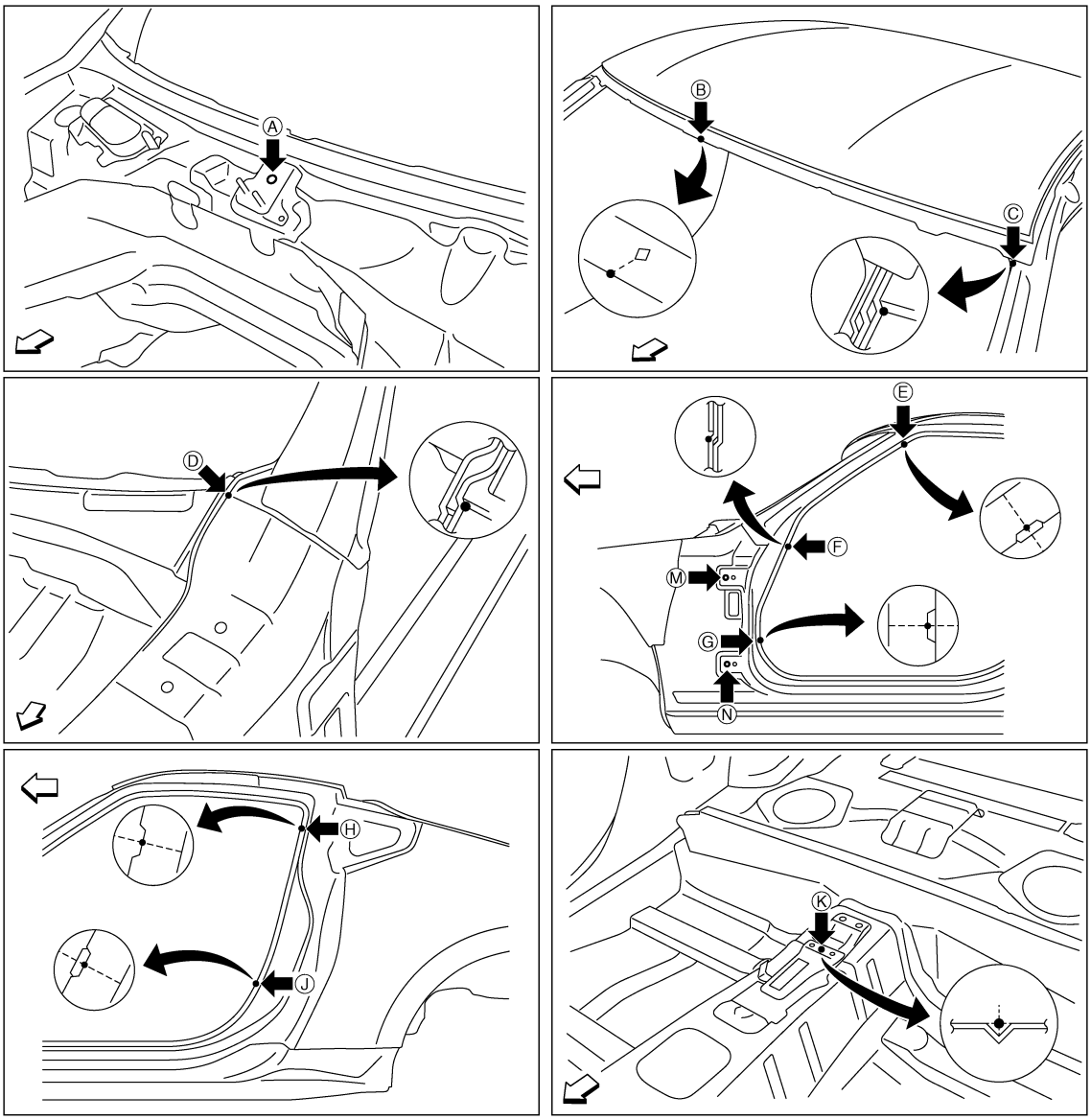
Unit: mm (in)

«The others»

Unit: mm (in)

Point	Dimension	Memo	Point	Dimension	Memo	Point	Dimension	Memo	Point	Dimension	Memo
E - e	1276 (50.24)		F - j	1713 (67.44)*		J - j	1471 (57.91)		M - m	1615 (63.58)	
E - g	1599 (62.95)*		G - g	1452 (57.17)		K - E	1024 (40.31)*		M - H	1273 (50.12)*	
E - h	1449 (57.05)*		G - h	1877 (73.90)*		K - F	1094 (43.07)*		M - J	1074 (42.28)*	
E - j	1563 (61.54)*		G - j	1749 (68.86)*		K - G	1095 (43.11)*		N - n	1649 (64.92)	
F - f	1452 (57.17)		H - h	1348 (53.07)		K - H	978 (38.50)*		N - H	1376 (54.17)*	
F - h	1748 (68.82)*		H - j	1504 (59.21)*		K - J	763 (30.04)*		N - J	1071 (42.17)*	

MEASUREMENT POINTS



JSKIA0889ZZ

⇦: Vehicle front

Unit: mm (in)

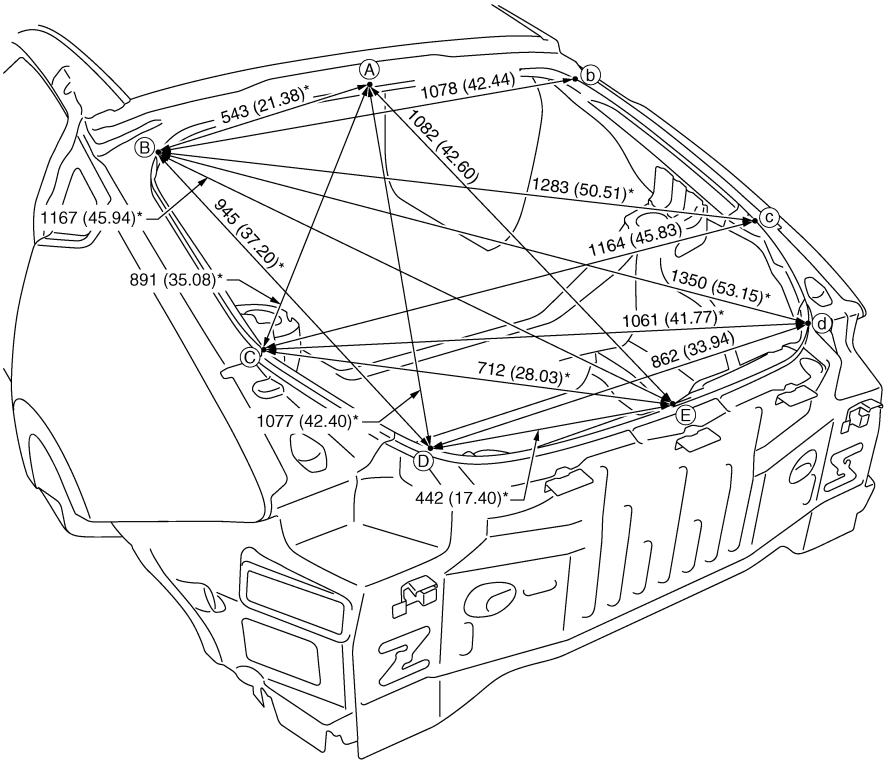
Point	Material	Point	Material
A	Center wiper pivot bracket hole center of center positioning mark ϕ8 (0.31)	G, g	Front pillar hinge brace indent
B	Roof flange end of center positioning mark	H, h, J, j	Rear fender indent
C, c	Front pillar joggle	K	Trans control reinforcement positioning mark of center positioning mark
D, d, F, f	Front pillar hinge brace joggle	M, m, N, n	Door hinge installing hole center ϕ12 (0.47)
E, e	Front pillar indent		

Rear Body

INFOID:0000000010837665

MEASUREMENT

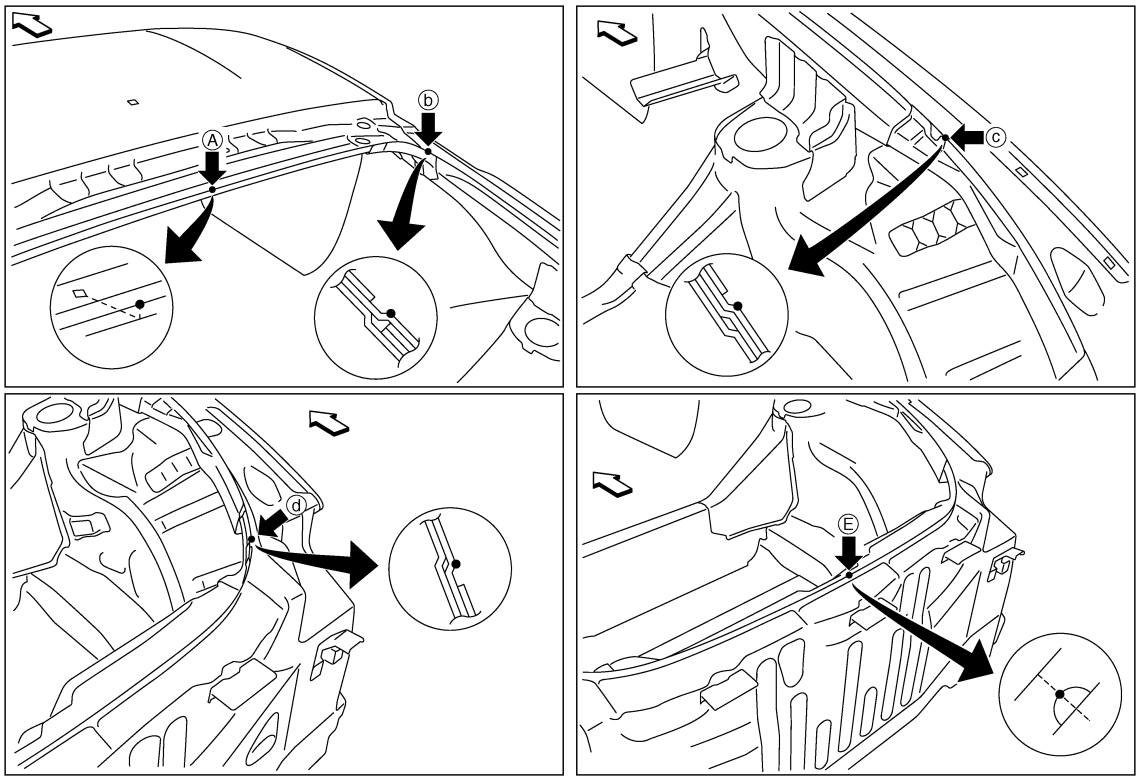
Dimensions marked with "*" indicate symmetrically identical dimensions on both the right and left hand of the vehicle.



JSKIA0890GB

Unit: mm (in)

MEASUREMENT POINTS



JSKIA0891ZZ

⇦: Vehicle front

Point	Material	Point	Material
A	Roof flange end of center positioning mark	D, d	Rear combination lamp base joggle
B, b	Rear fender joggle	E	Upper rear panel reinforcement indent of center positioning mark
C, c	Rear combination lamp base extension joggle		