

SECTION **BRM**
 BODY REPAIR

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BODY EXTERIOR PAINT COLOR

< VEHICLE INFORMATION >

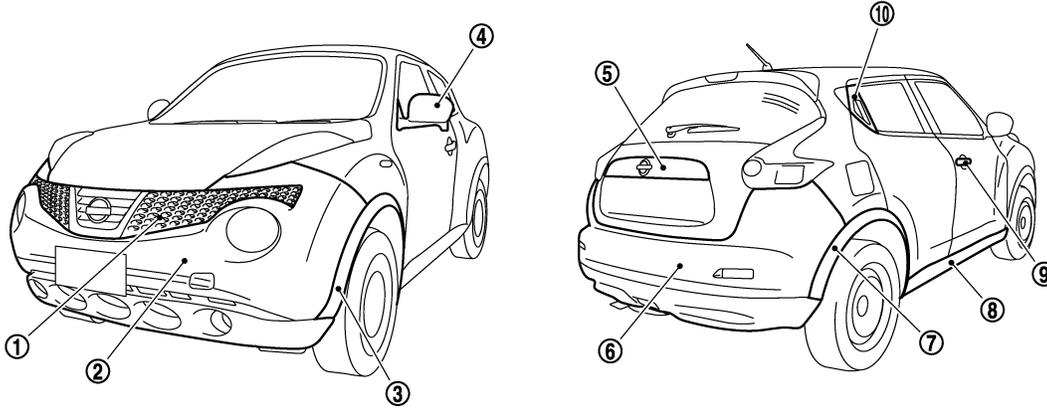
VEHICLE INFORMATION

BODY EXTERIOR PAINT COLOR

Body Exterior Paint Color

INFOID:000000006482807

FOR 2WD MODELS



JSKIA2126ZZ

Component			Color code	B326	BKAD	BKAX	BKY0	BNAH	BRAQ	BZ11
			Description	White	Gray	Dark Gray	Silver	Red	Dark Blue	Black
			Paint type ^{Note}	Solid	M	PM	M	PM	M	PM
			Hard clear coat	-	×	×	×	×	×	×
1	Front grille	Grille	Material color	-	-	-	-	-	-	-
		Molding	Chromium plate	Cr	Cr	Cr	Cr	Cr	Cr	Cr
2	Front bumper fascia	Body color	B326	BKAD	BKAX	BKY0	BNAH	BRAQ	BZ11	
3	Front fillet molding	Material color	-	-	-	-	-	-	-	
4	Door outside mirror	Body color	B326	BKAD	BKAX	BKY0	BNAH	BRAQ	BZ11	
		Material color	-	-	-	-	-	-	-	
5	Back door finisher	Body color	B326	BKAD	BKAX	BKY0	BNAH	BRAQ	BZ11	
6	Rear bumper fascia	Body color	B326	BKAD	BKAX	BKY0	BNAH	BRAQ	BZ11	
7	Rear fillet molding	Material color	-	-	-	-	-	-	-	
8	Center mudguard	Material color	-	-	-	-	-	-	-	
9	Front door outside handle	Body color	B326	BKAD	BKAX	BKY0	BNAH	BRAQ	BZ11	
		Material color	-	-	-	-	-	-	-	
10	Rear door outside handle	Material color	-	-	-	-	-	-	-	

NOTE:

- S: Solid
- 2S: Solid + Clear
- CS: Color clear solid
- M: Metallic
- P: 2-Coat pearl
- 3P: 3-Coat pearl
- FPM: Iron oxide pearl
- RPM: Multi flex color

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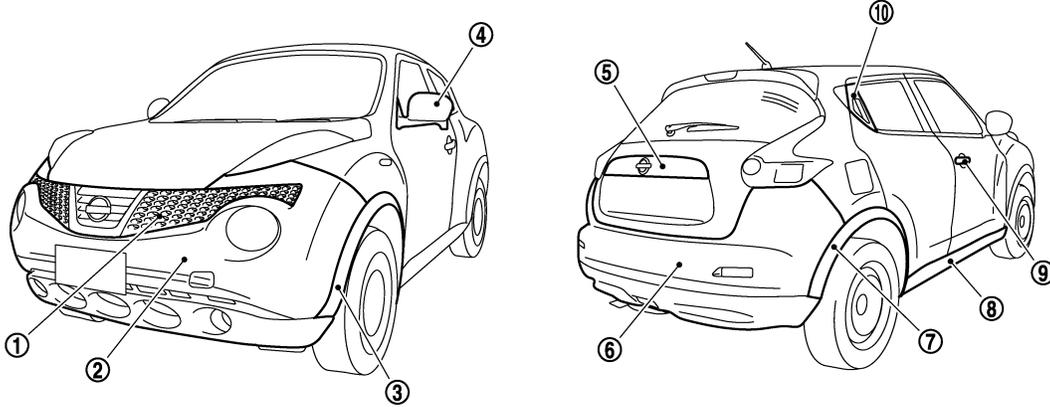
BRM

BODY EXTERIOR PAINT COLOR

< VEHICLE INFORMATION >

- TM: Micro titanium metallic
- PM: Pearl metallic

FOR 4WD MODELS



JSKIA2126ZZ

Component			Color code	BB20	BKAD	BKAX	BKY0	BNAH	BRAQ	BQX1
			Description	Bluish Black	Gray	Dark Gray	Silver	Red	Dark Blue	White
			Paint type ^{Note}	P	M	PM	M	PM	M	3P
			Hard clear coat	×	–	×	–	×	×	–
1	Front grille	Grille	Material color	–	–	–	–	–	–	–
		Molding	Chromium plate	Cr	Cr	Cr	Cr	Cr	Cr	Cr
2	Front bumper fascia	Body color	BB20	BKAD	BKAX	BKY0	BNAH	BRAQ	BQX1	
3	Front fillet molding	Material color	–	–	–	–	–	–	–	
4	Door outside mirror	Body color	BB20	BKAD	BKAX	BKY0	BNAH	BRAQ	BQX1	
		Material color	–	–	–	–	–	–	–	
5	Back door finisher	Body color	BB20	BKAD	BKAX	BKY0	BNAH	BRAQ	BQX1	
6	Rear bumper fascia	Body color	BB20	BKAD	BKAX	BKY0	BNAH	BRAQ	BQX1	
7	Rear fillet molding	Material color	–	–	–	–	–	–	–	
8	Center mudguard	Material color	–	–	–	–	–	–	–	
9	Front door outside handle	Body color	BB20	BKAD	BKAX	BKY0	BNAH	BRAQ	BQX1	
		Material color	–	–	–	–	–	–	–	
10	Rear door outside handle	Material color	–	–	–	–	–	–	–	

NOTE:

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

REPAIRING HIGH STRENGTH STEEL

< PRECAUTION >

PRECAUTION

REPAIRING HIGH STRENGTH STEEL

High Strength Steel (HSS)

INFOID:000000006482809

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:

FOR 2WD MODELS

Tensile strength	Major applicable parts
440 - 780 MPa	<ul style="list-style-type: none"> • Trans control reinforcement (Center front floor component part) • Rear side member front extension (Front floor component part) • Inner sill • Side dash • Lower dash crossmember • Front strut housing • Front side member assembly • Front side member closing plate assembly • Rear seat crossmember reinforcement (Center rear crossmember assembly component part) • Rear side member • Inner side roof rail • Upper inner front pillar • Inner center pillar • Outer side roof rail reinforcement • Lower center pillar brace • Outer front pillar reinforcement (Front pillar brace component part) • Lower front pillar hinge brace • Outer sill reinforcement • Inner rear pillar reinforcement • Front roof rail • Rear bumper stay assembly
980 - 1310 MPa	<ul style="list-style-type: none"> • Lower dash crossmember (Upper) (Lower dash component part) • Inner center front bumper reinforcement • Inner center rear bumper reinforcement

FOR 4WD MODELS

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REPAIRING HIGH STRENGTH STEEL

< PRECAUTION >

Tensile strength	Major applicable parts
440 - 780 MPa	<ul style="list-style-type: none"> • Trans control reinforcement (Center front floor component part) • 2nd crossmember (Front floor component part) • Inner sill • Side dash • Lower dash crossmember • Front strut housing • Front side member assembly • Front side member closing plate assembly • Front suspension mounting bracket (Front) • Rear seat crossmember • Rear seat crossmember reinforcement (Center rear crossmember assembly component part) • Rear side member • Front side member front assembly • Inner side roof rail • Upper inner front pillar • Inner center pillar • Outer side roof rail reinforcement • Lower center pillar brace • Outer front pillar reinforcement (Front pillar brace component part) • Lower front pillar hinge brace • Outer sill reinforcement • Inner rear pillar reinforcement • Front roof rail • Rear bumper stay assembly
980 - 1310 MPa	<ul style="list-style-type: none"> • Rear front side member extension (Front floor component part) • Lower dash crossmember (Upper) (Lower dash component part) • Inner center front bumper reinforcement • Inner center rear bumper reinforcement

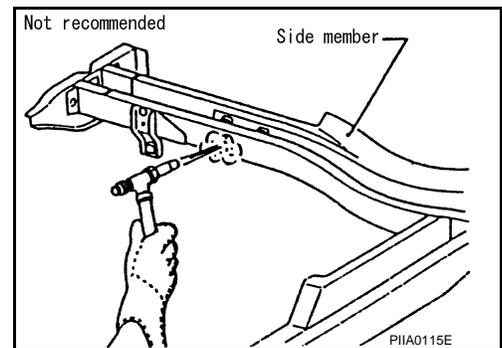
Read the following precautions when repairing HSS:

1. Additional points to consider

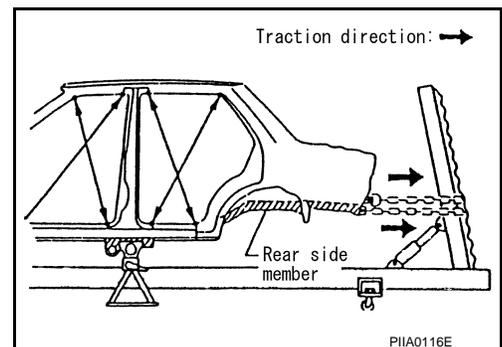
- The repair of reinforcements (such as side members) by heating is not recommended, because it may weaken the component. When heating is unavoidable, never heat HSS parts above 550°C (1,022°F).

Verify heating temperature with a thermometer.

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



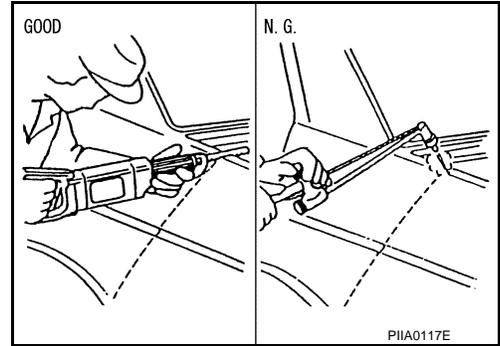
- When straightening body panels, use caution in pulling any HSS panel. Because HSS is very strong, pulling may cause deformation in adjacent sections of the body. In this case, increase the number of measuring points, and carefully pull the HSS panel.



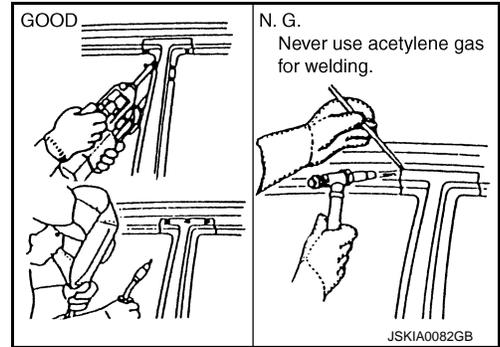
REPAIRING HIGH STRENGTH STEEL

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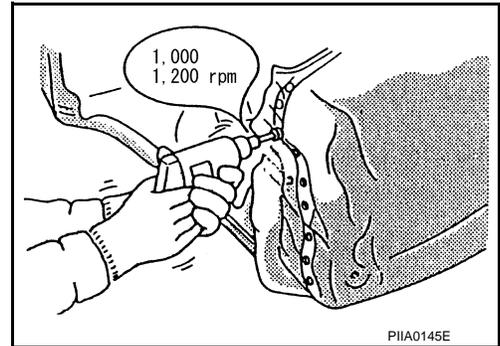
- When cutting HSS panels, avoid gas (torch) cutting if possible. Instead, use a saw to avoid weakening surrounding areas due to heat. If gas (torch) cutting is unavoidable, allow a minimum margin of 50 mm (1.97in).



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



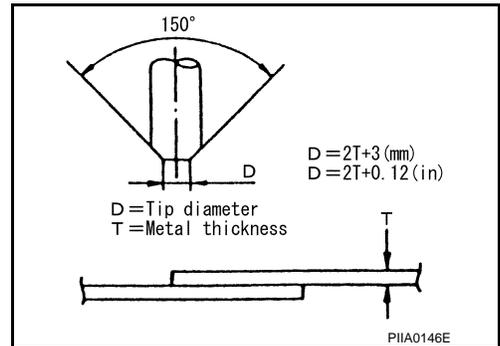
- Spot welding on HSS panels is harder than that of an ordinary steel panel. Therefore, when cutting spot welds on a HSS panel, use a low speed high torque drill (1,000 to 1,200 rpm) to increase drill bit durability and facilitate the operation.



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.

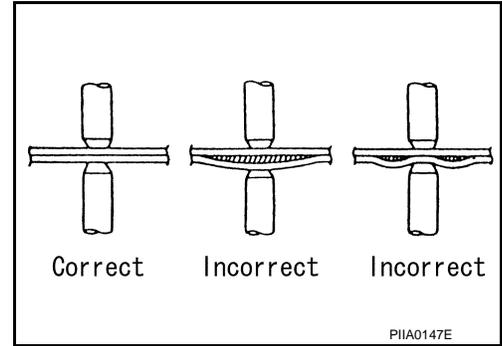


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REPAIRING HIGH STRENGTH STEEL

< PRECAUTION >

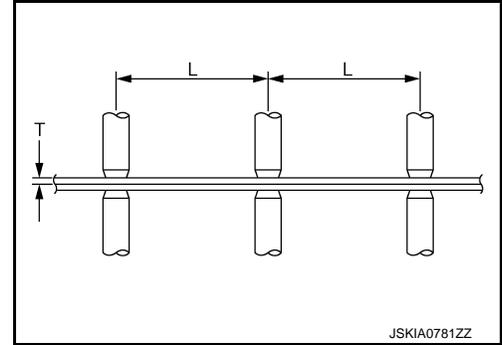
- The panel surfaces must fit flush to each other, leaving no gaps.



- 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:000000006482810

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.

REPAIRING MATERIAL

< PREPARATION >

PREPARATION

REPAIRING MATERIAL

Foam Repair

INFOID:000000006482811

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.

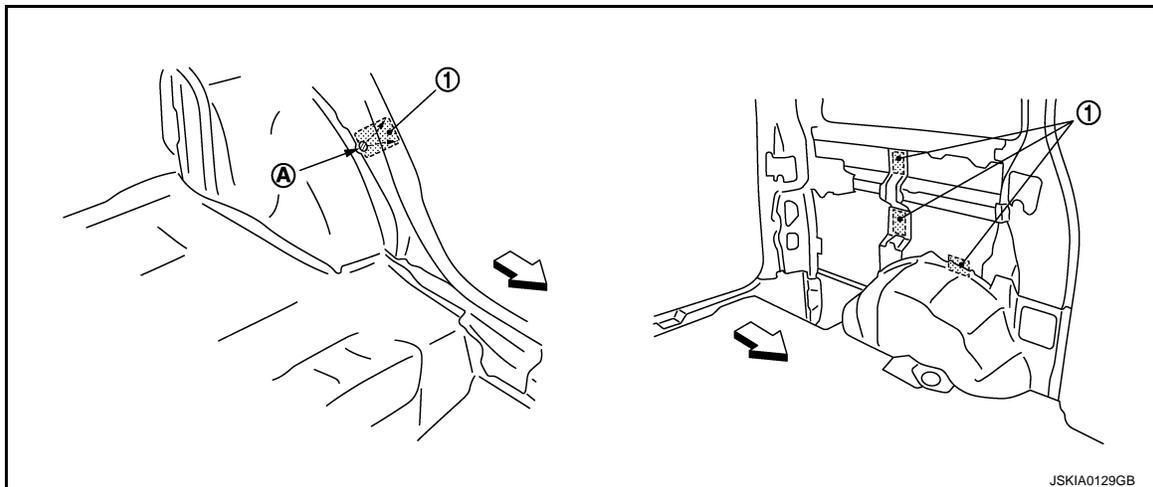
<Urethane foam for foaming agent>

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.

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REPAIRING MATERIAL

< PREPARATION >

- 1. Urethane foam
 - A. Fill while avoiding flange area
- ← Vehicle front

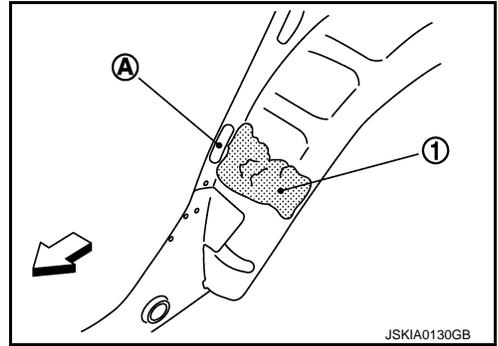
NOTE:

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.



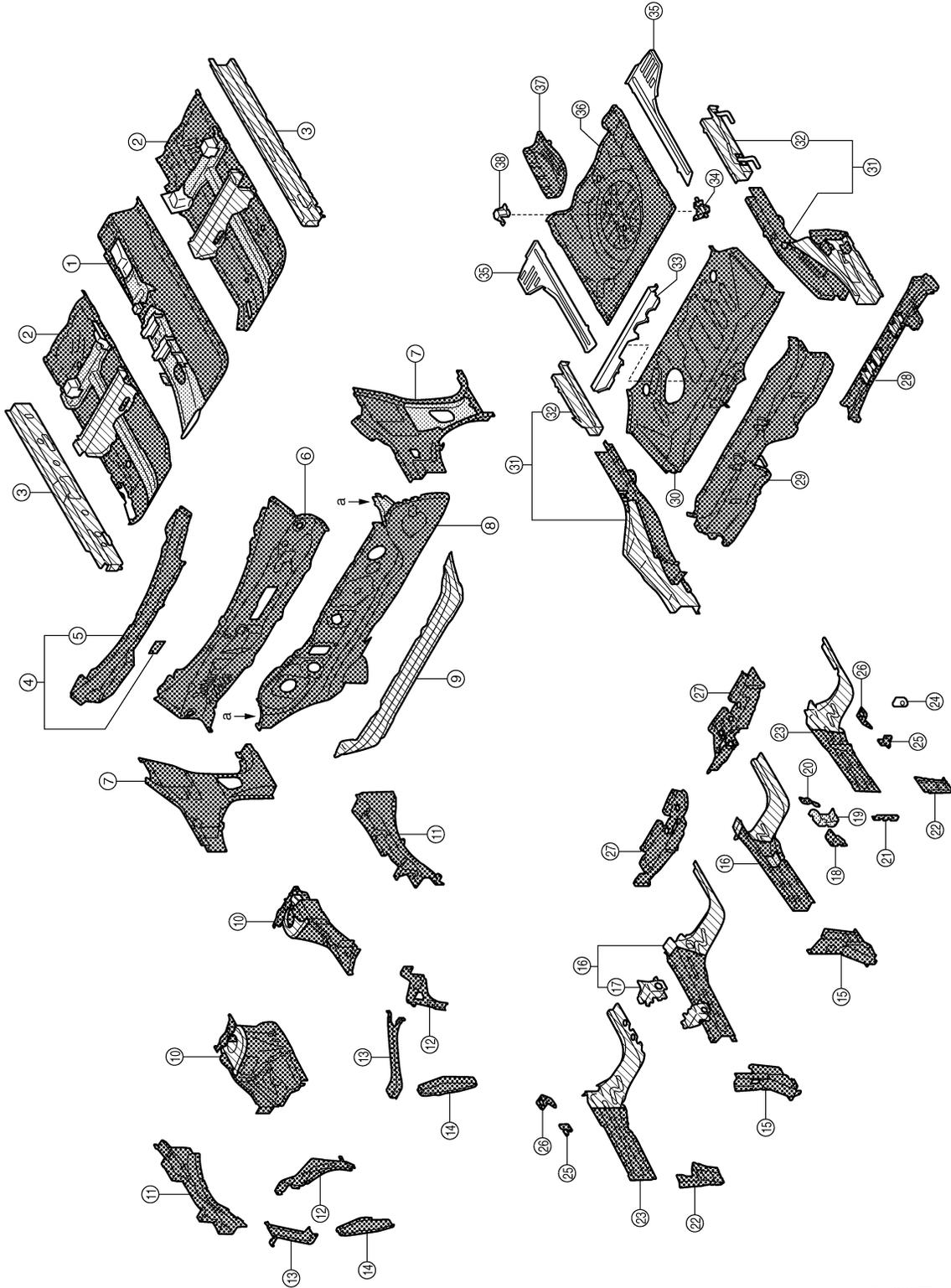
BODY COMPONENT PARTS

< PREPARATION >

BODY COMPONENT PARTS

Underbody Component Parts (2WD Models)

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BRM

-  Both sided anti-corrosive pre-coated steel sections
-  High strength steel (HSS) sections
-  Both sided anti-corrosive steel and HSS sections

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BODY COMPONENT PARTS

< PREPARATION >

No.	Parts name	Tensile strength (MPa)	Both sided anti-corrosive precoated steel sections
1.	Center front floor	500	×
2.	Front floor (RH & LH)	750	×
3.	Inner sill (RH & LH)	590	×
4.	Cowl top assembly	Under 440	×
5.	Cowl top	Under 440	×
6.	Upper dash	Under 440	×
7.	Side dash (RH & LH)	590	×
8.	Lower dash	a. T=1.4 mm (0.055 in) 980 ^{caution}	×
9.	Lower dash crossmember	780	×
10.	Front strut housing (RH & LH)	590	×
11.	Hoodledge reinforcement (RH & LH)	Under 440	×
12.	Hoodledge connector (RH & LH)	Under 440	×
13.	Side radiator core support (RH & LH Upper)	Under 440	×
14.	Side radiator core support (RH & LH Lower)	Under 440	×
15.	Front suspension mounting bracket (RH & LH Front)	Under 440	×
16.	Front side member assembly (RH & LH)	780	×
17.	Engine mounting member bracket	440	×
18.	Engine mounting reinforcement	Under 440	×
19.	Front side member reinforcement assembly	780	—
20.	Tie down hook reinforcement	Under 440	×
21.	Front towing hook reinforcement	Under 440	×
22.	Add on frame bracket (RH & LH)	Under 440	×
23.	Front side member closing plate assembly (RH & LH)	560	×
24.	Front tie down hook	Under 440	—
25.	Sensor harness bracket (RH & LH)	Under 440	×
26.	Front brake hose bracket (RH & LH)	Under 440	×
27.	Front suspension mounting bracket (RH & LH Rear)	445	×
28.	Rear crossmember center assembly	780	×
29.	Rear seat crossmember	Under 440	×
30.	Rear floor front	Under 440	×
31.	Rear side member (RH & LH)	590	×
32.	Rear side member extension (RH & LH)	445	×
33.	Upper rear seat crossmember	Under 440	—
34.	Muffler mounting bracket	Under 440	×
35.	Rear floor side (RH & LH)	Under 440	—
36.	Rear floor rear	Under 440	×
37.	Rear towing hook bracket	Under 440	×
38.	Spare tire clamp bracket	Under 440	—

NOTE:

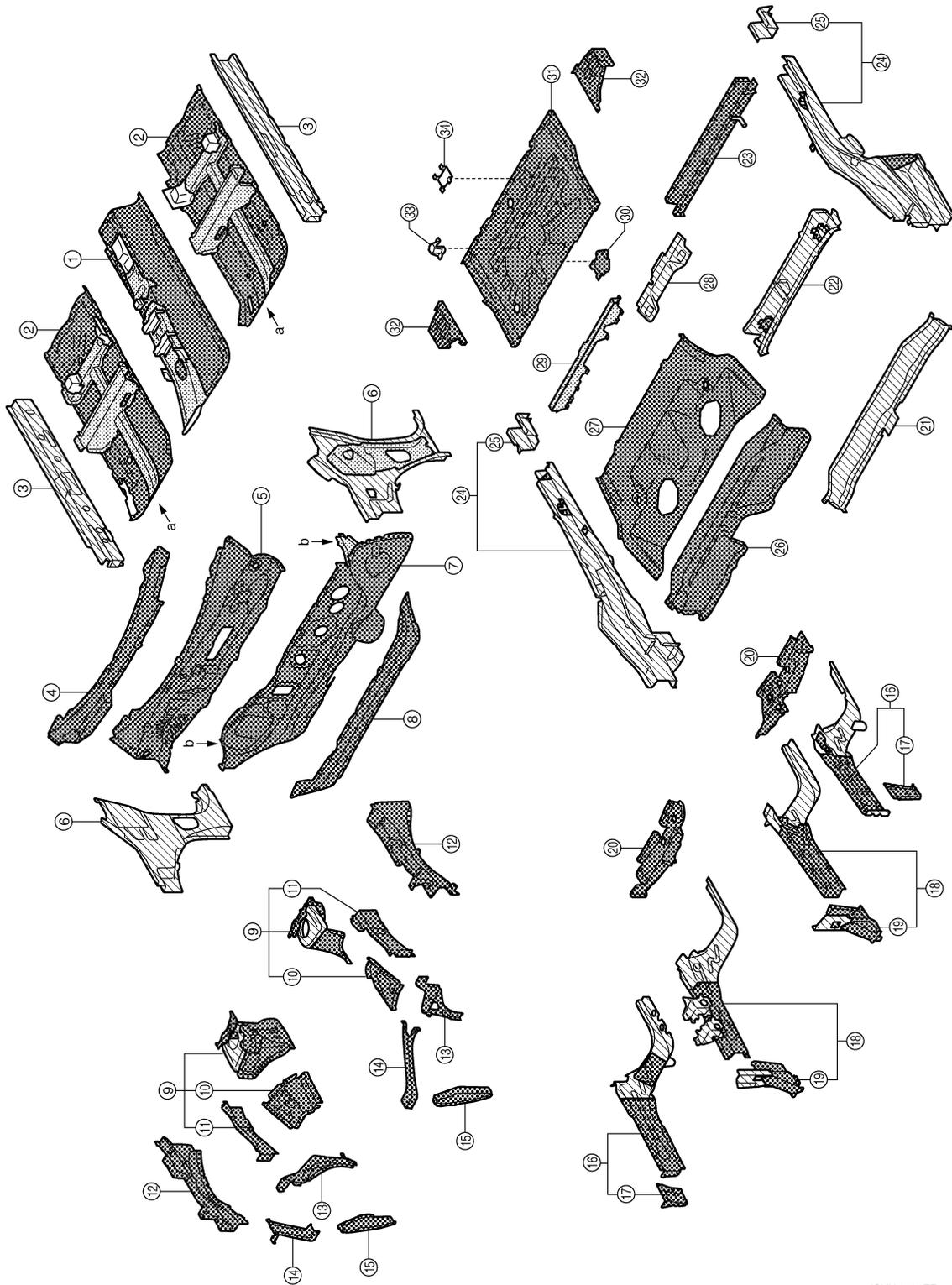
- For the parts without a number described in the figure, it is supplied only with the assembly part that the part is included with.
- Tensile strength column shows the largest strength value of a part in the component part.

BODY COMPONENT PARTS

< PREPARATION >

Underbody Component Parts (4WD Models)

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BRM

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

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BODY COMPONENT PARTS

< PREPARATION >

No.	Parts name		Tensile strength (MPa)	Both sided anti-corrosive precoated steel sections
1.	Center front floor		590	×
2.	Front floor (RH & LH)	a. T=1.8mm (0.071 in)	980 ^{caution}	×
3.	Inner sill (RH & LH)		590	×
4.	Inner cowl top		Under 440	×
5.	Upper dash		Under 440	×
6.	Side dash (RH & LH)		590	×
7.	Lower dash	b. T=1.4mm (0.055 in)	980 ^{caution}	×
8.	Lower dash crossmember		780	×
9.	Front strut housing (RH & LH)		590	×
10.	Lower front hoodledge (RH & LH)		Under 440	×
11.	Upper hoodledge (RH & LH)		Under 440	×
12.	Hoodledge reinforcement (RH & LH)		Under 440	×
13.	Hoodledge connector (RH & LH)		Under 440	×
14.	Side radiator core support (RH & LH Upper)		Under 440	×
15.	Side radiator core support (RH & LH Lower)		Under 440	×
16.	Front side member closing plate assembly (RH & LH)		590	×
17.	Add on frame bracket (RH & LH)		Under 440	×
18.	Front side member assembly (RH & LH)		590	×
19.	Front suspension mounting bracket (RH & LH Front)		440	×
20.	Front suspension mounting bracket (RH & LH Rear)		Under 440	×
21.	Rear seat crossmember		440	×
22.	Rear crossmember center assembly		590	×
23.	7th crossmember		Under 440	×
24.	Rear side member		780	×
25.	Rear side member extension (RH & LH)		590	×
26.	Rear floor front extension		Under 440	×
27.	Rear floor front		Under 440	×
28.	Rear floor belt anchor reinforcement		590	×
29.	Upper rear seat crossmember		440	—
30.	Canister bracket		Under 440	×
31.	Rear floor rear		Under 440	×
32.	Rear floor side (RH & LH)		Under 440	×
33.	Spare tire clamp bracket		Under 440	—
34.	Jack mounting bracket		Under 440	—

NOTE:

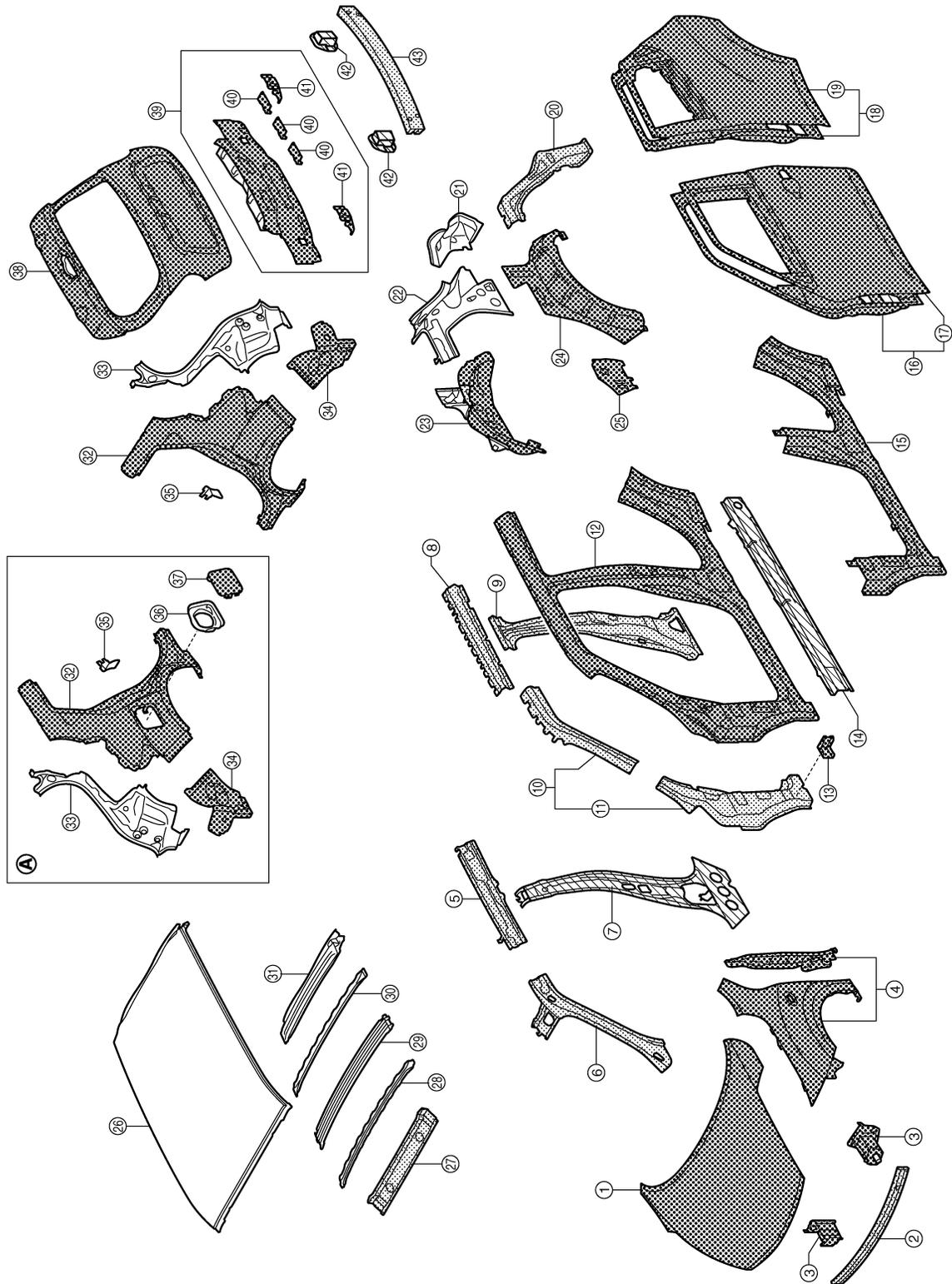
- For the parts without a number described in the figure, it is supplied only with the assembly part that the part is included with.
- Tensile strength column shows the largest strength value of a part in the component part.

BODY COMPONENT PARTS

< PREPARATION >

Body Component Parts (2WD Models)

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BRM

A. Right side

Both sided anti-corrosive pre-coated steel sections

High strength steel (HSS) sections

Both sided anti-corrosive steel and HSS sections

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BODY COMPONENT PARTS

< PREPARATION >

No.	Parts name	Tensile strength (MPa)	Both sided anti-corrosive precoated steel sections
1.	Hood	Under 440	×
2.	Inner center front bumper reinforcement	T=1.2 mm (0.047 in) 1310 ^{caution}	—
3.	Front side member front assembly (RH & LH)	Under 440	×
4.	Front fender (RH & LH)	Under 440	×
5.	Inner side roof rail (RH & LH)	590	—
6.	Upper inner front pillar (RH & LH)	780	—
7.	Inner center pillar (RH & LH)	590	×
8.	Outer side roof rail reinforcement (RH & LH)	590	—
9.	Lower center pillar brace (RH & LH)	590	—
10.	Front pillar brace (RH & LH)	590	—
11.	Lower front pillar hinge brace (RH & LH)	590	—
12.	Outer front side body (RH & LH)	Under 440	×
13.	Front fender bracket assembly (RH & LH)	Under 440	×
14.	Outer sill reinforcement (RH & LH)	780	×
15.	Outer sill (RH & LH)	Under 440	×
16.	Front door (RH & LH)	Under 440	×
17.	Outer front door panel (RH & LH)	Under 440	×
18.	Rear door (RH & LH)	Under 440	×
19.	Outer rear door panel (RH & LH)	Under 440	×
20.	Inner rear pillar reinforcement (RH & LH)	450	—
21.	Rear pillar reinforcement (RH & LH)	Under 440	—
22.	Inner rear pillar (RH & LH)	Under 440	—
23.	Inner rear wheelhouse (RH & LH)	450	×
24.	Outer rear wheelhouse (RH & LH)	Under 440	×
25.	Outer rear wheelhouse extension (RH & LH)	Under 440	×
26.	Roof	Under 440	—
27.	Front roof rail	780	—
28.	Roof bow No.1	Under 440	—
29.	Roof bow No.2	590	—
30.	Roof bow No.3	Under 440	—
31.	Rear roof rail	Under 440	—
32.	Rear fender (RH & LH)	Under 440	×
33.	Rear fender extension (RH & LH)	Under 440	—
34.	Rear fender corner (RH & LH)	Under 440	×
35.	Striker retainer (RH & LH)	Under 440	—
36.	Fuel filler base	Under 440	—
37.	Fuel filler lid	Under 440	×
38.	Back door	Under 440	×
39.	Upper rear panel	Under 440	×
40.	Upper rear bumper retainer	Under 440	×
41.	Rear side bumper bracket	Under 440	×

BODY COMPONENT PARTS

< PREPARATION >

No.	Parts name		Tensile strength (MPa)	Both sided anti-corrosive precoated steel sections
42.	Rear bumper stay (RH & LH)		590	×
43.	Inner center rear bumper reinforcement	T=1.2 mm (0.047 in)	1310 ^{caution}	—

NOTE:

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

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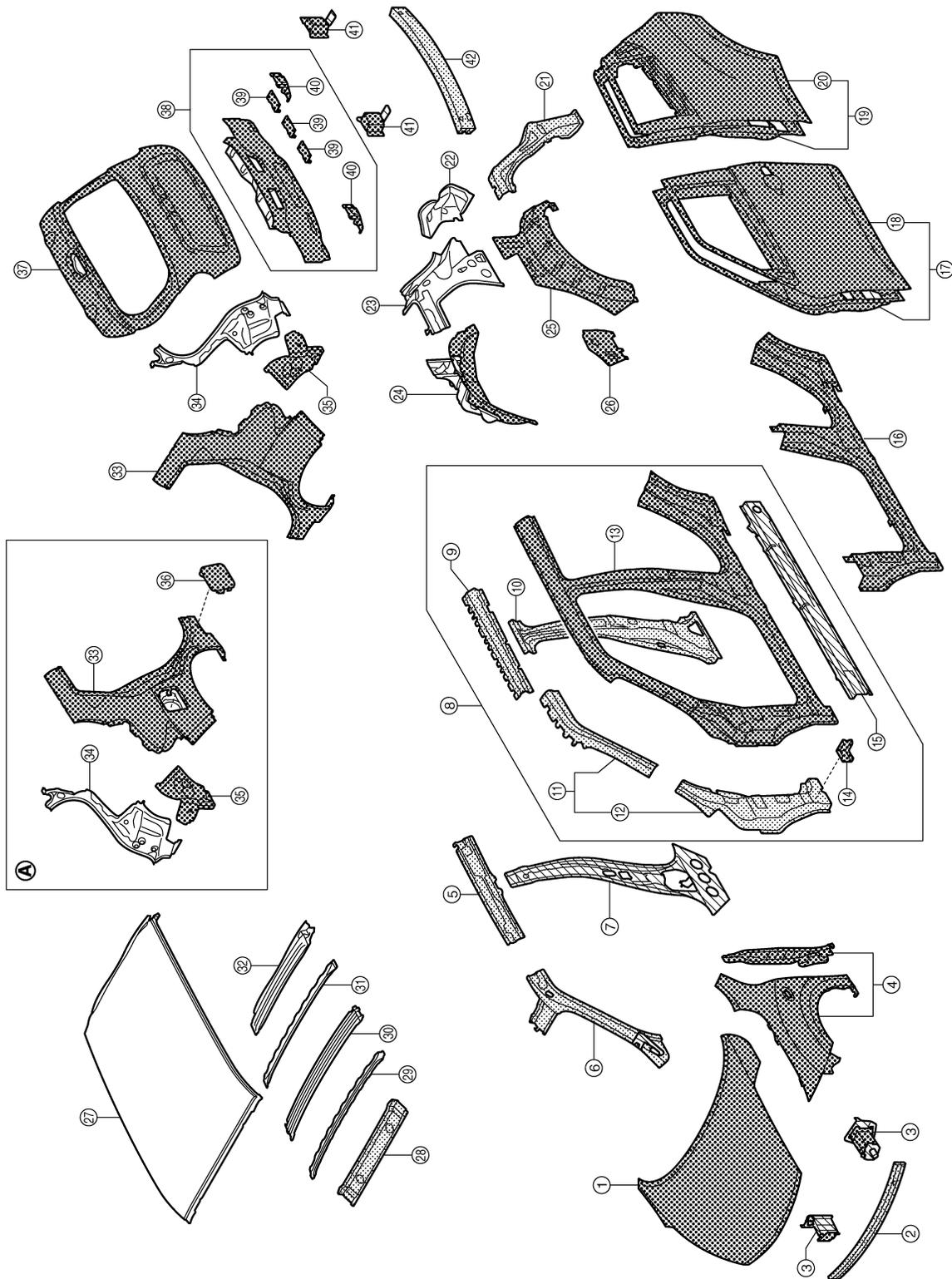
BRM

BODY COMPONENT PARTS

< PREPARATION >

Body Component Parts (4WD Models)

INFOID:00000006482815



JSKIA2130ZZ

A. Right side

 Both sided anti-corrosive pre-coated steel sections

 High strength steel (HSS) sections

 Both sided anti-corrosive steel and HSS sections

BODY COMPONENT PARTS

< PREPARATION >

No.	Parts name	Tensile strength (MPa)	Both sided anti-corrosive precoated steel sections	
1.	Hood	Under 440	×	A
2.	Inner center front bumper reinforcement	T=1.2 mm (0.047 in) 1310 ^{caution}	—	B
3.	Front side member front assembly (RH & LH)	590	×	
4.	Front fender (RH & LH)	Under 440	×	C
5.	Inner side roof rail (RH & LH)	590	—	
6.	Upper inner front pillar (RH & LH)	780	—	D
7.	Inner center pillar (RH & LH)	590	×	
8.	Side body assembly (RH & LH)	Refer to No.9-15		
9.	Outer side roof rail reinforcement (RH & LH)	590	—	E
10.	Lower center pillar brace (RH & LH)	590	—	
11.	Front pillar brace (RH & LH)	590	—	F
12.	Lower front pillar hinge brace (RH & LH)	590	—	
13.	Outer front side body (RH & LH)	Under 440	×	G
14.	Front fender bracket assembly (RH & LH)	Under 440	×	
15.	Outer sill reinforcement (RH & LH)	780	×	H
16.	Outer sill (RH & LH)	Under 440	×	
17.	Front door (RH & LH)	Under 440	×	I
18.	Outer front door panel (RH & LH)	Under 440	×	
19.	Rear door (RH & LH)	Under 440	×	J
20.	Outer rear door panel (RH & LH)	Under 440	×	
21.	Inner rear pillar reinforcement (RH & LH)	440	—	BRM
22.	Rear pillar reinforcement (RH & LH)	Under 440	—	
23.	Inner rear pillar (RH & LH)	Under 440	—	
24.	Inner rear wheelhouse (RH & LH)	440	×	L
25.	Outer rear wheelhouse (RH & LH)	Under 440	×	
26.	Outer rear wheelhouse extension (RH & LH)	Under 440	×	M
27.	Roof	Under 440	—	
28.	Front roof rail	780	—	N
29.	Roof bow No.1	Under 440	—	
30.	Roof bow No.2	590	—	O
31.	Roof bow No.3	Under 440	—	
32.	Rear roof rail	Under 440	—	P
33.	Rear fender (RH & LH)	Under 440	×	
34.	Rear fender extension (RH & LH)	Under 440	—	
35.	Rear fender corner (RH & LH)	Under 440	×	
36.	Fuel filler lid	Under 440	×	
37.	Back door	Under 440	×	
38.	Upper rear panel	Under 440	×	
39.	Upper rear bumper retainer	Under 440	×	
40.	Rear side bumper bracket	Under 440	×	
41.	Rear bumper stay (RH & LH)	440	×	
42.	Inner center rear bumper reinforcement	T=1.2 mm (0.047 in) 1310 ^{caution}	—	

BODY COMPONENT PARTS

< PREPARATION >

NOTE:

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

CORROSION PROTECTION

< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

CORROSION PROTECTION

Description

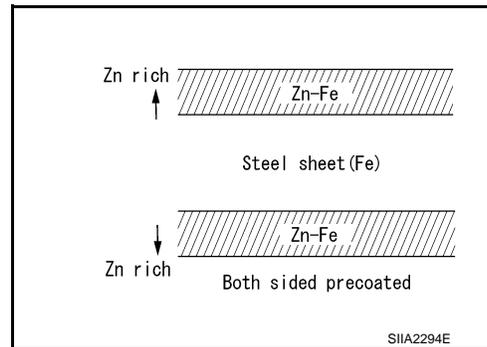
INFOID:000000006482816

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 has been adopted replacing conventional zinc-coated steel sheet.

Galvannealed steel is electroplated and heated to form Zinc-iron alloy, which provides excellent and long term corrosion resistance with cationic electrodeposition primer.



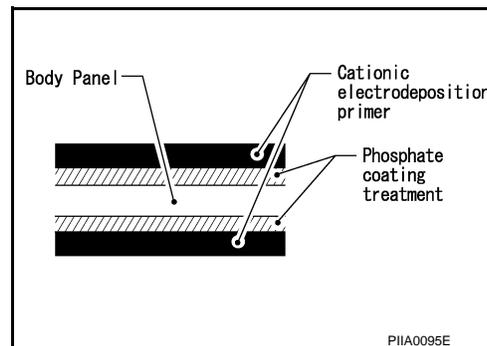
Nissan Genuine Service Parts are fabricated from galvannealed steel. Therefore, it is recommended that GENUINE NISSAN PARTS or equivalent be used for panel replacement to maintain the anti-corrosive performance built into the vehicle at the factory.

PHOSPHATE COATING TREATMENT AND CATIONIC ELECTRODEPOSITION PRIMER

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

CAUTION:

Confine paint removal during welding operations to an absolute minimum.



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

Anti-corrosive Wax

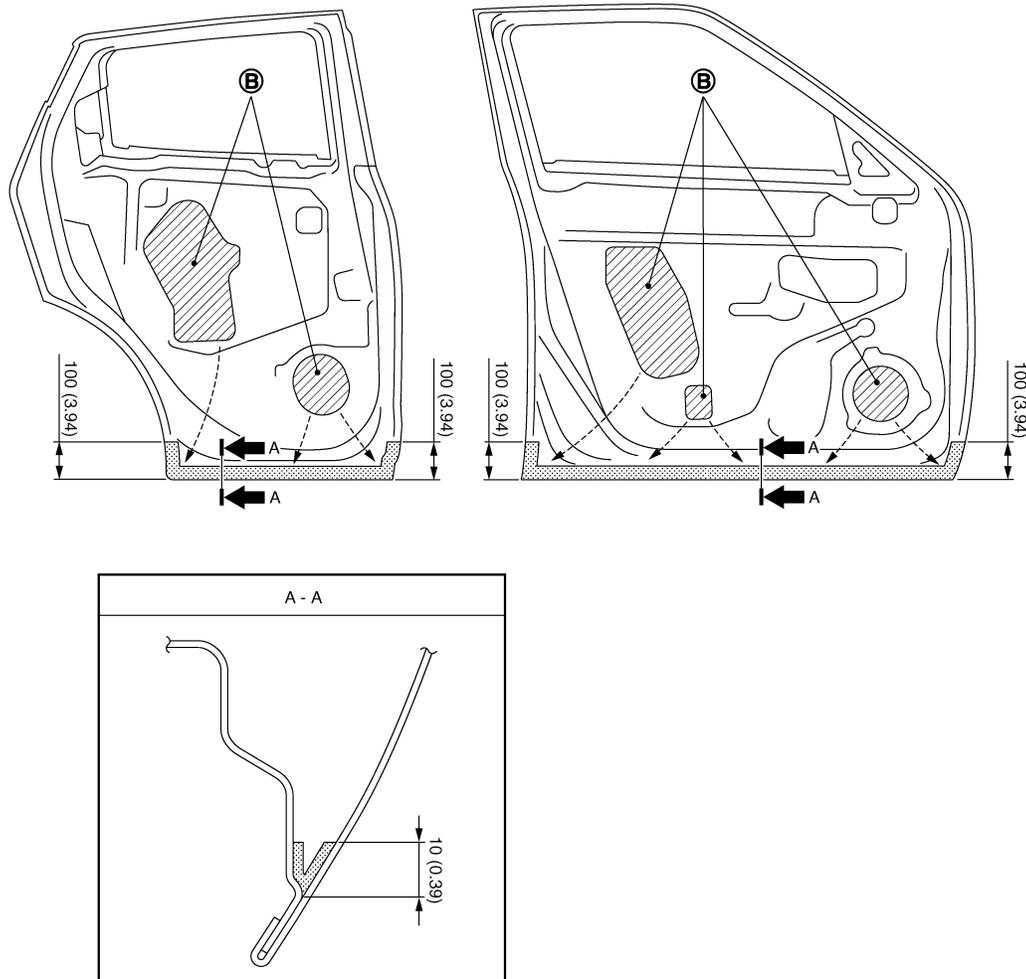
INFOID:000000006482817

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

DOOR

CORROSION PROTECTION

< REMOVAL AND INSTALLATION >



JSKIA2131ZZ

B. Nozzle insert hole

Unit: mm (in)

 Anti-corrosive wax coated portions

Undercoating (2WD Models)

INFOID:000000006482821

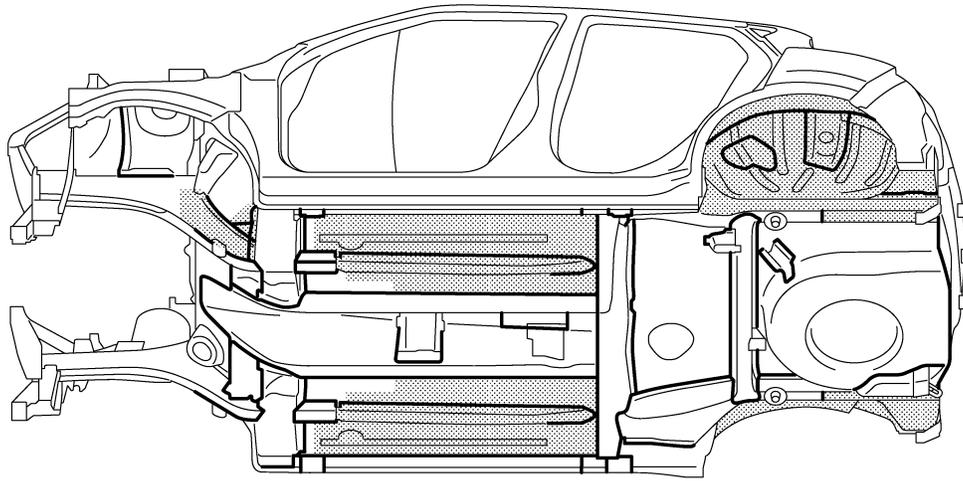
The underside of the floor and wheelhouse are undercoated to prevent rust, vibration, noise and stone chipping. Therefore, when such a panel is replaced or repaired, apply undercoating to that part. Use an undercoating which is rust resistant, soundproof, vibration-proof, shock-resistant, adhesive, and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

CORROSION PROTECTION

< REMOVAL AND INSTALLATION >



JSKIA2132ZZ

 Undercoated areas

 Sealed portions

Undercoating (4WD Models)

INFOID:000000006482822

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

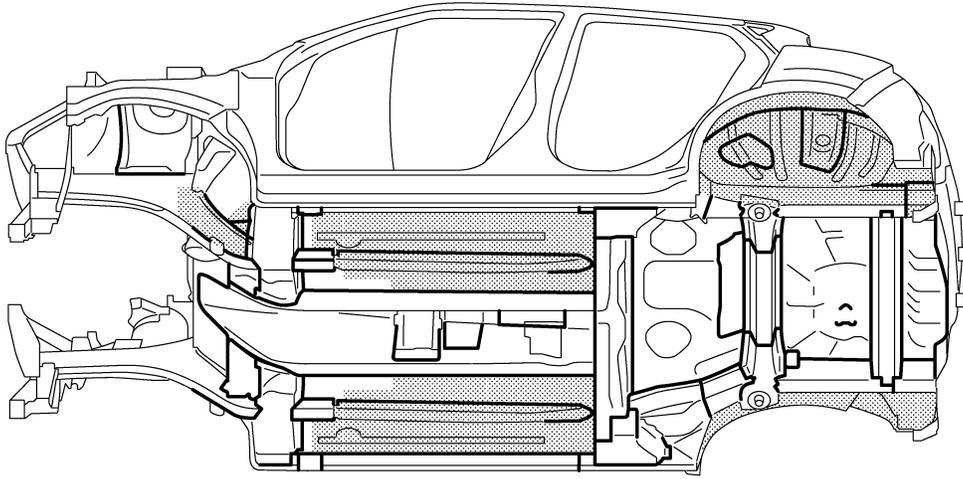
1. Never apply undercoating to any place unless specified (such as the areas above the muffler and three-way catalyst that are subjected to heat).
2. Never undercoat the exhaust pipe or other parts that become hot.
3. Never undercoat rotating parts.
4. Apply bitumen wax after applying undercoating.
5. After putting seal on the vehicle, put undercoating on it.

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CORROSION PROTECTION

< REMOVAL AND INSTALLATION >



JSKIA2133ZZ

 Undercoated areas

 Sealed portions

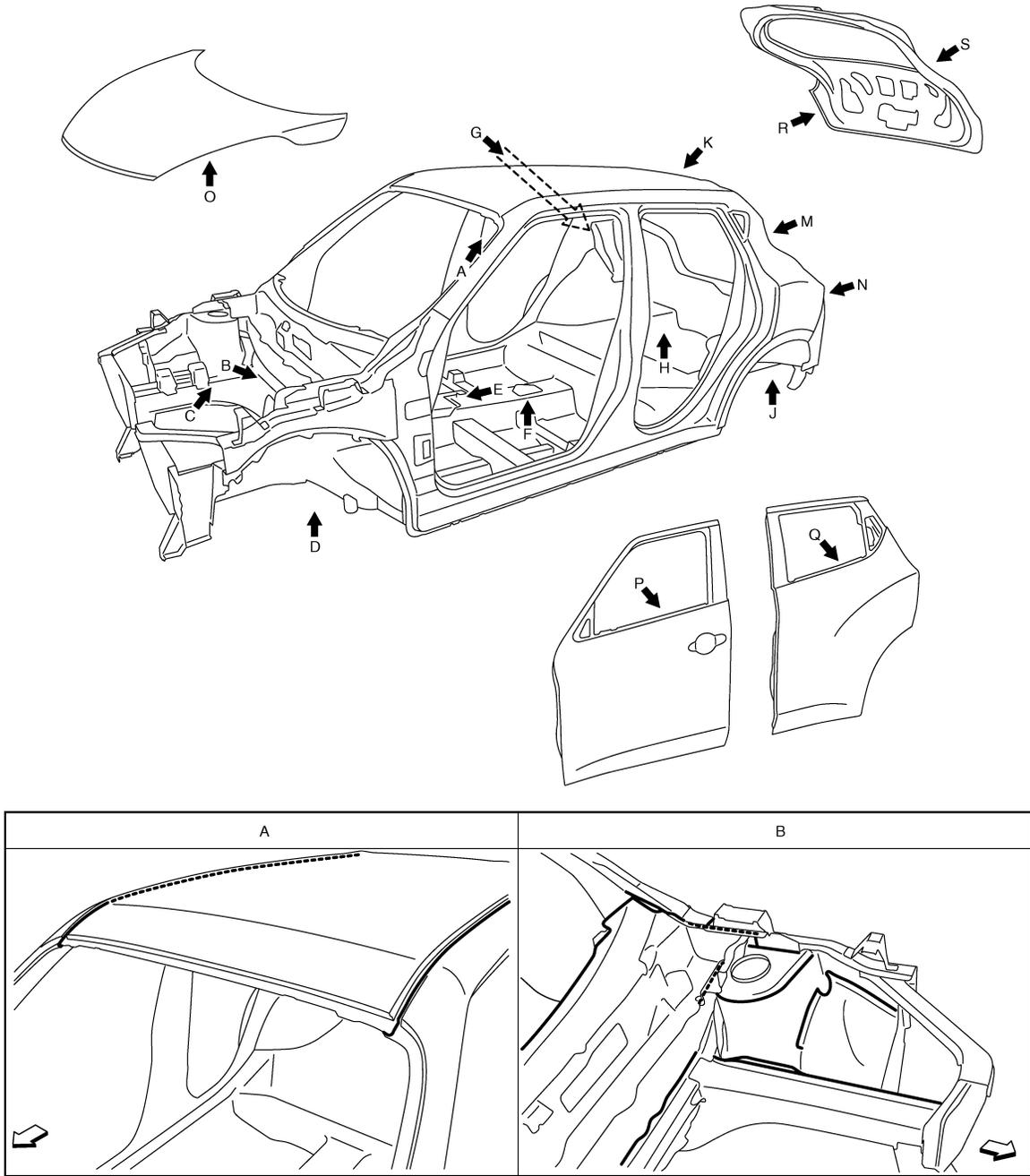
Body Sealing (2WD RHD Models)

INFOID:000000006482818

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.

CORROSION PROTECTION

< REMOVAL AND INSTALLATION >



JSKIA2002ZZ

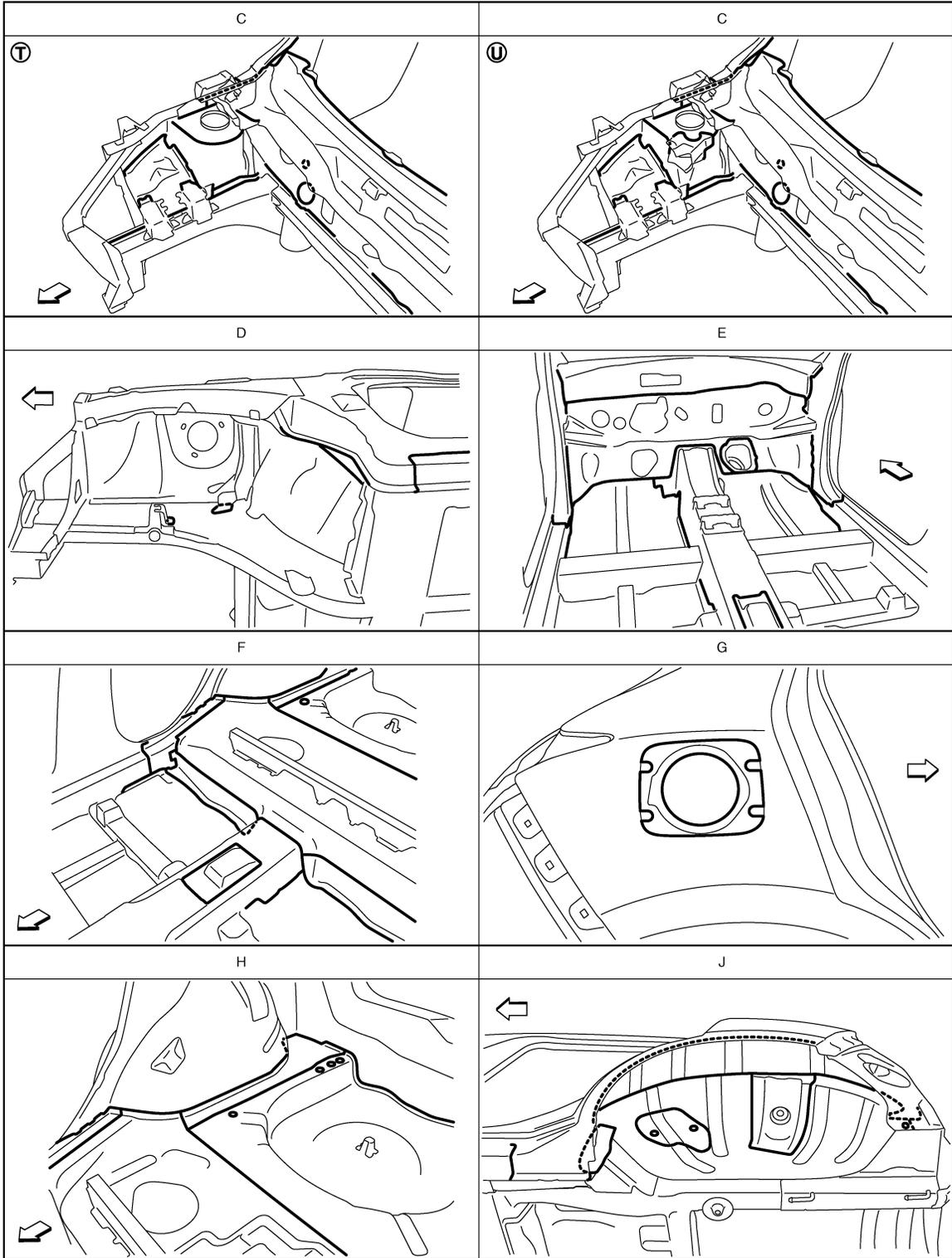
↔: Vehicle front
 ■: Sealed portions

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CORROSION PROTECTION

< REMOVAL AND INSTALLATION >



JSKIA2134ZZ

T. HR16DE Engine models

U. MR16DDT and K9K Engine models

←: Vehicle front

—: Sealed portions

CORROSION PROTECTION

< REMOVAL AND INSTALLATION >



JSKIA2135ZZ

↔: Vehicle front

▬: Sealed portions

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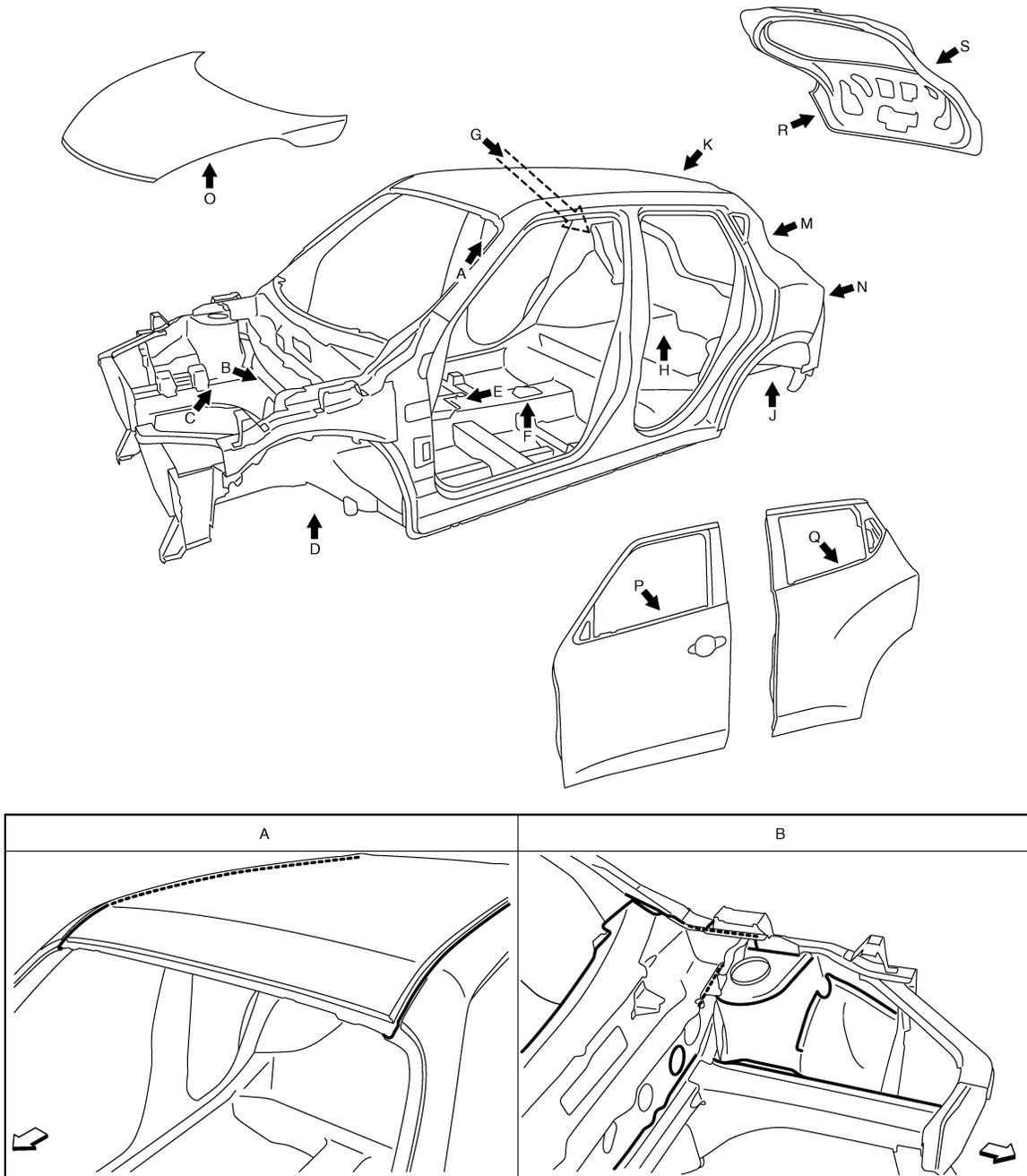
CORROSION PROTECTION

< REMOVAL AND INSTALLATION >

Body Sealing (2WD LHD Models)

INFOID:000000006486722

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.

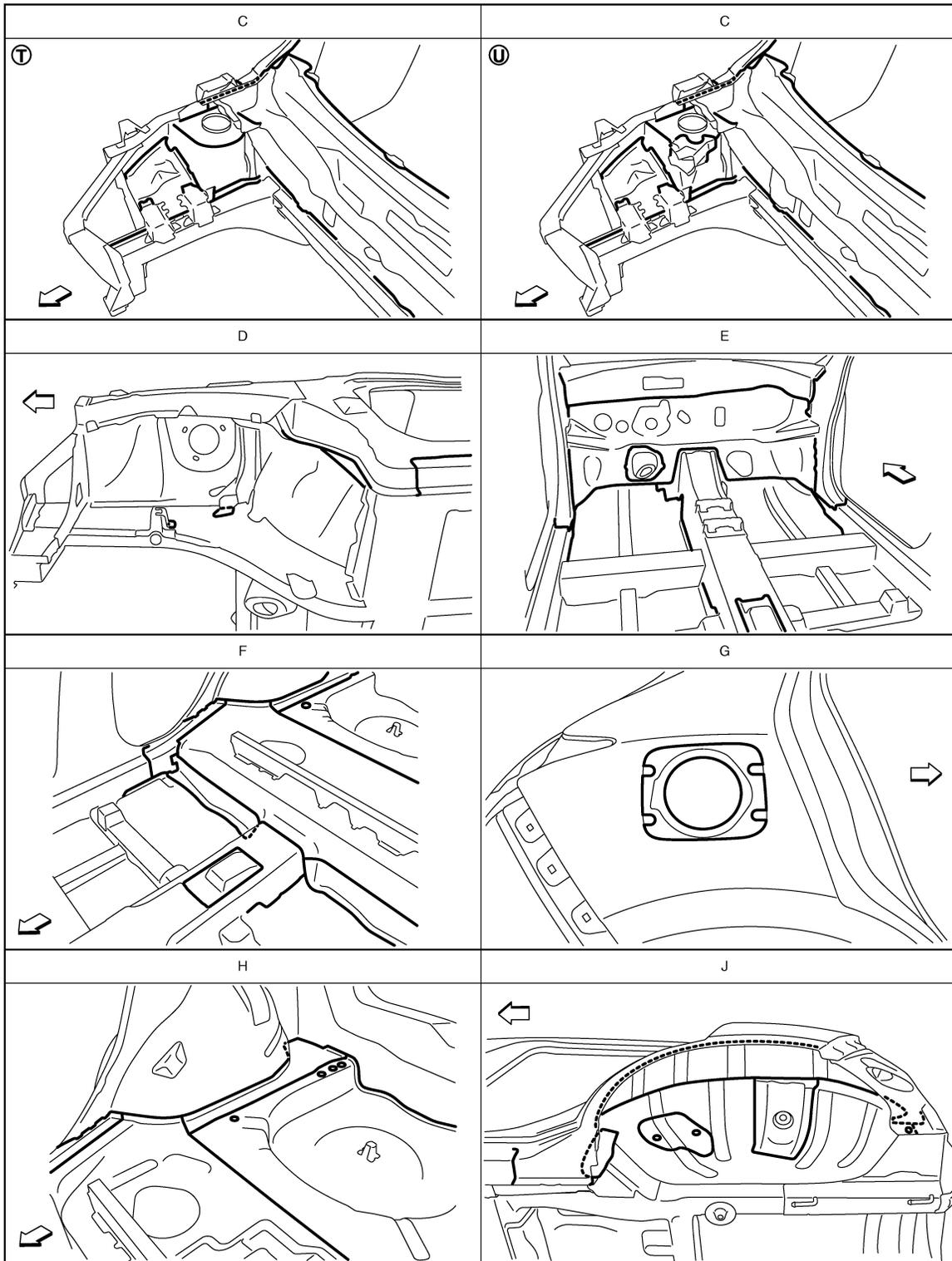


JSKIA2136ZZ

←: Vehicle front
—: Sealed portions

CORROSION PROTECTION

< REMOVAL AND INSTALLATION >



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T. HR16DE Engine models

U. MR16DDT and K9K Engine models

↔: Vehicle front

—: Sealed portions

JSKIA2137ZZ

CORROSION PROTECTION

< REMOVAL AND INSTALLATION >



JSKIA2135ZZ

↔: Vehicle front

■: Sealed portions

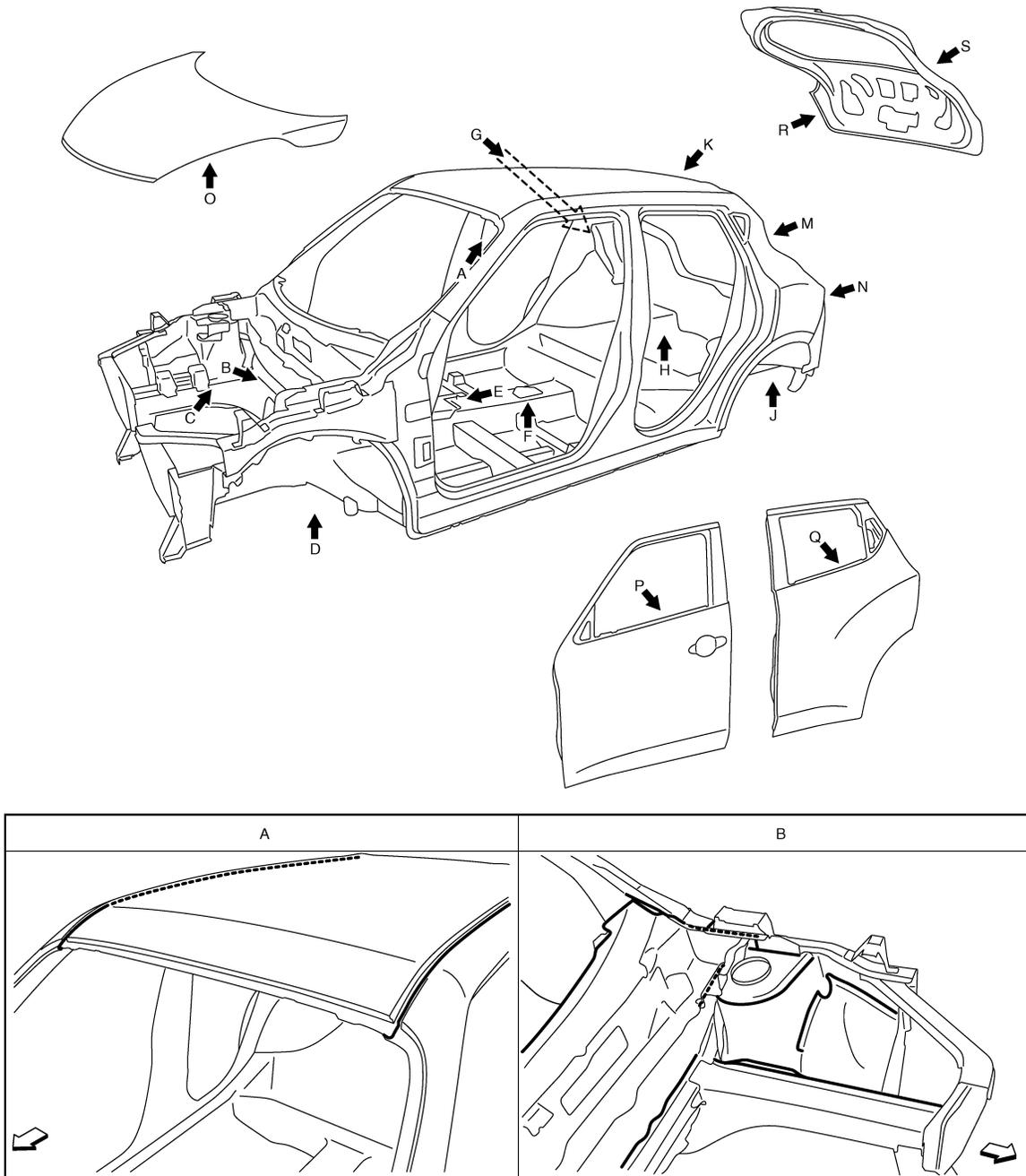
CORROSION PROTECTION

< REMOVAL AND INSTALLATION >

Body Sealing (4WD RHD Models)

INFOID:000000006482892

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



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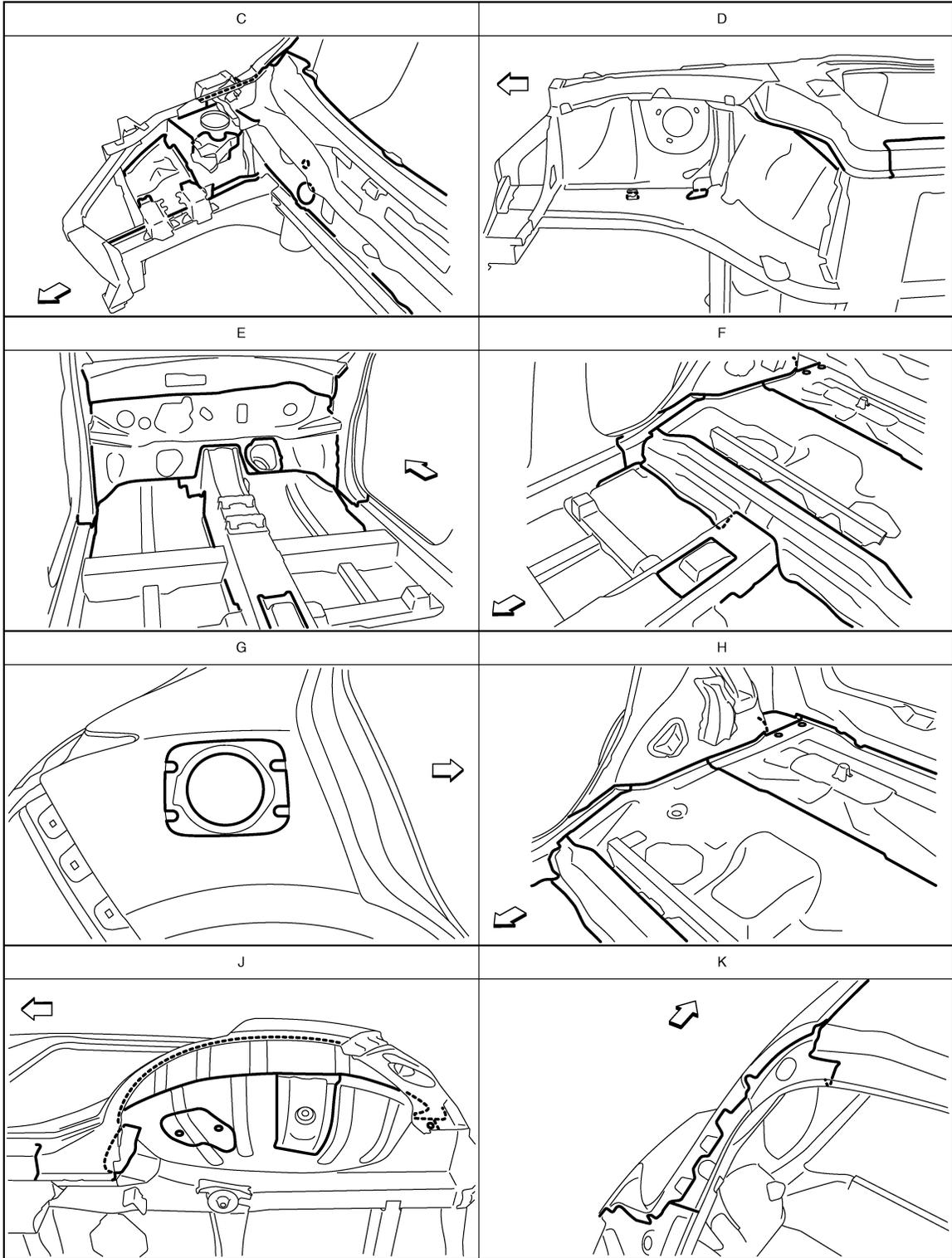
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↔: Vehicle front
▬: Sealed portions

JSKIA2138ZZ

CORROSION PROTECTION

< REMOVAL AND INSTALLATION >



JSKIA2139ZZ

↶: Vehicle front
■: Sealed portions

CORROSION PROTECTION

< REMOVAL AND INSTALLATION >



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↔: Vehicle front
 ■: Sealed portions

JSKIA2140ZZ

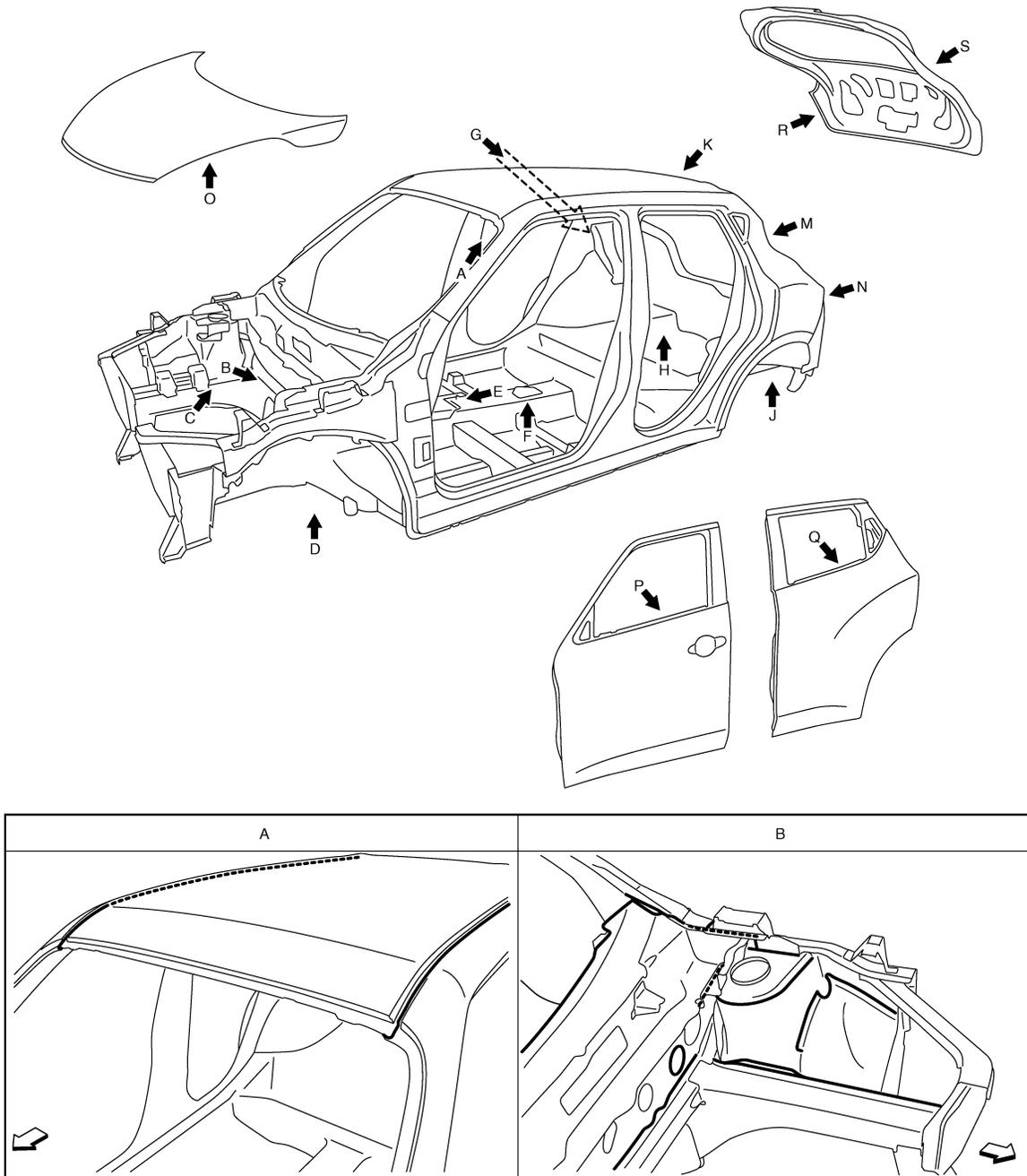
CORROSION PROTECTION

< REMOVAL AND INSTALLATION >

Body Sealing (4WD LHD Models)

INFOID:00000006486723

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.

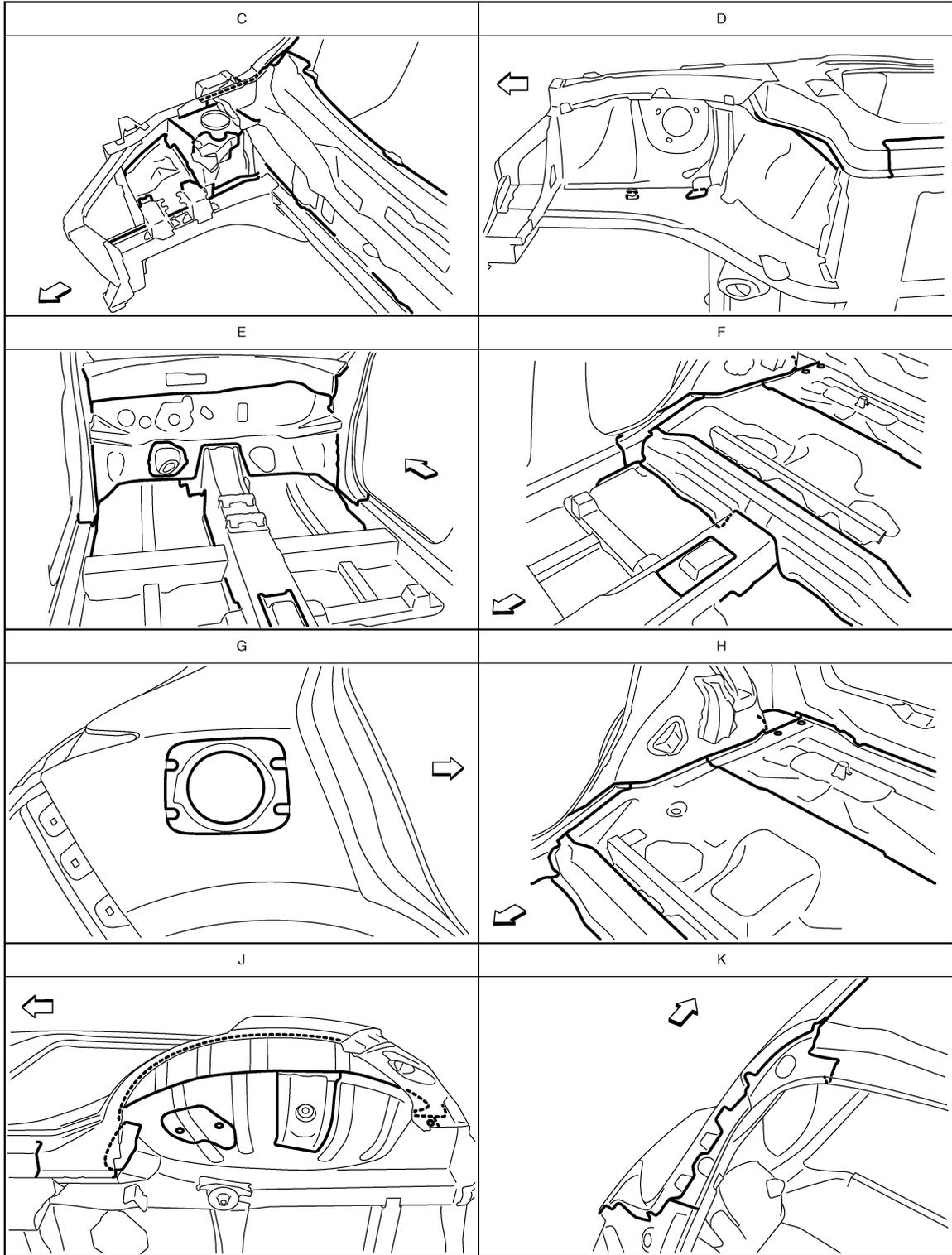


JSKIA2141ZZ

←: Vehicle front
—: Sealed portions

CORROSION PROTECTION

< REMOVAL AND INSTALLATION >



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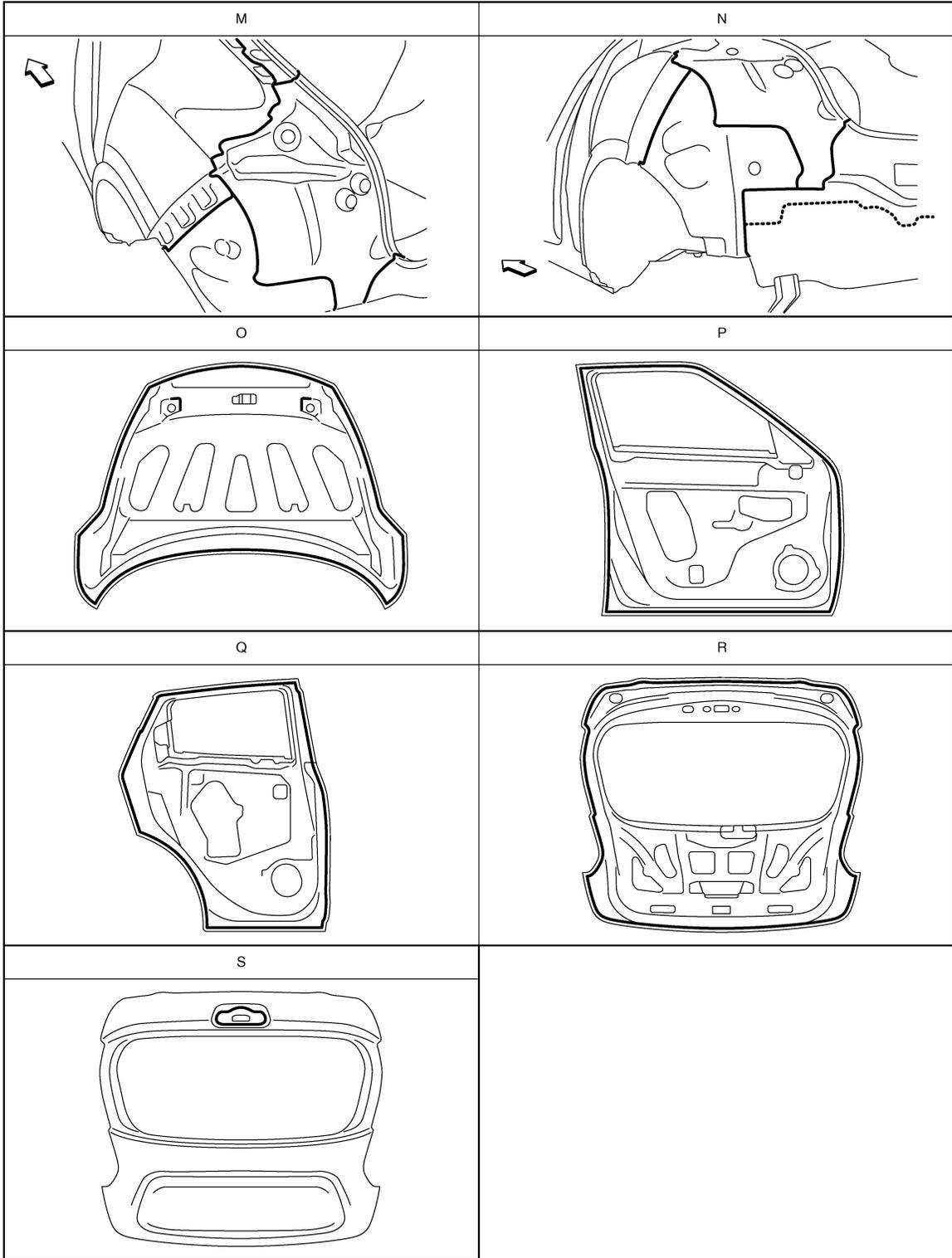
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JSKIA214ZZ

↔: Vehicle front
▬: Sealed portions

CORROSION PROTECTION

< REMOVAL AND INSTALLATION >



JSKIA2140ZZ

←: Vehicle front

■: Sealed portions

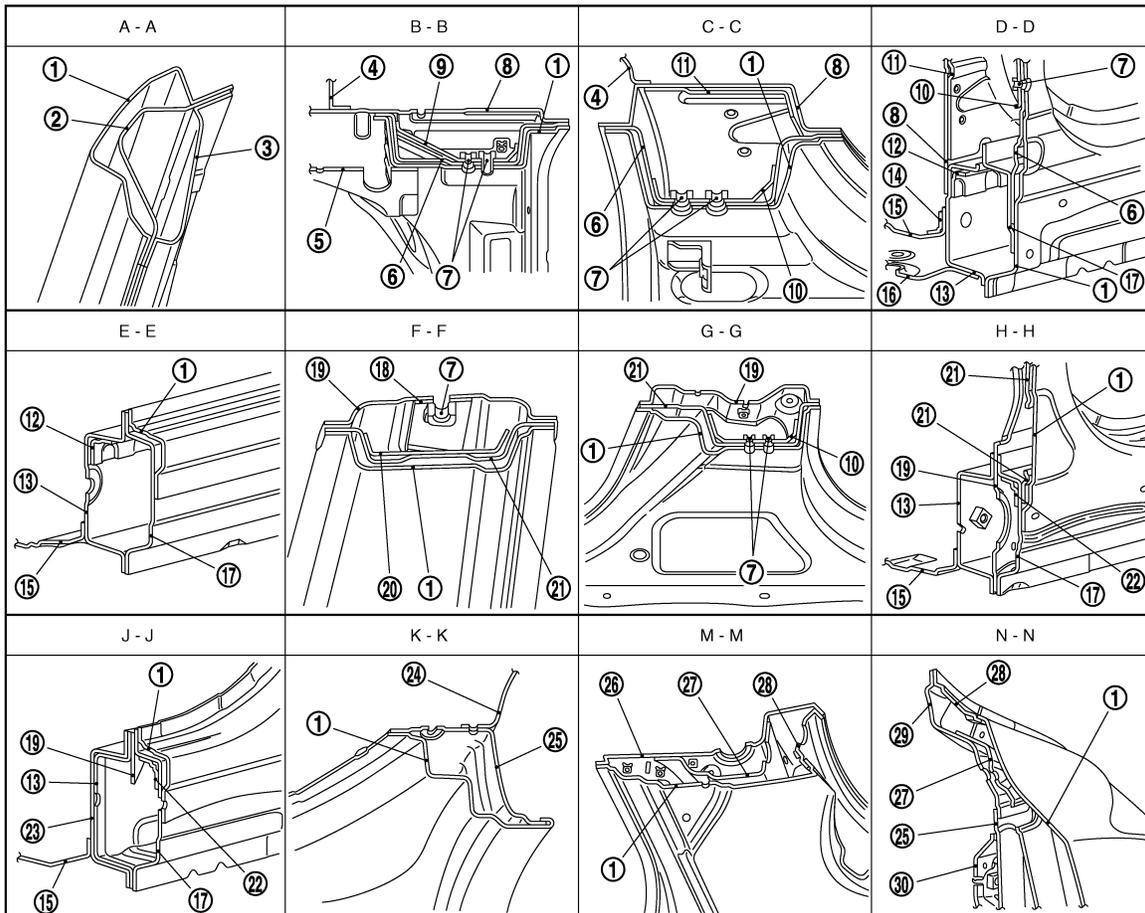
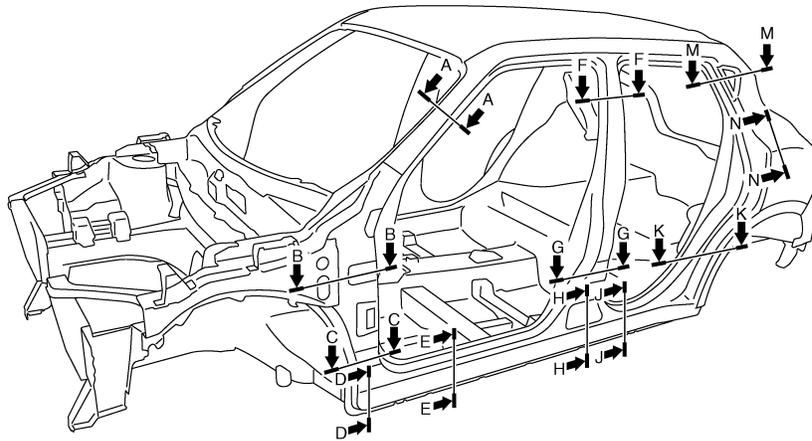
BODY CONSTRUCTION

< REMOVAL AND INSTALLATION >

BODY CONSTRUCTION

Body Construction (RHD Models)

INFOID:000000006482825



- | | | |
|--------------------|-------------------------------------|-----------------------------------|
| 1. Outer side body | 2. Outer front pillar reinforcement | 3. Upper inner front pillar |
| 4. Lower dash | 5. Hoodledge reinforcement | 6. Lower front pillar hinge brace |
| 7. Weld nut | 8. Side dash | 9. Upper hinge plate |

BRM-37

JSKIA2006ZZ

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BODY CONSTRUCTION

< REMOVAL AND INSTALLATION >

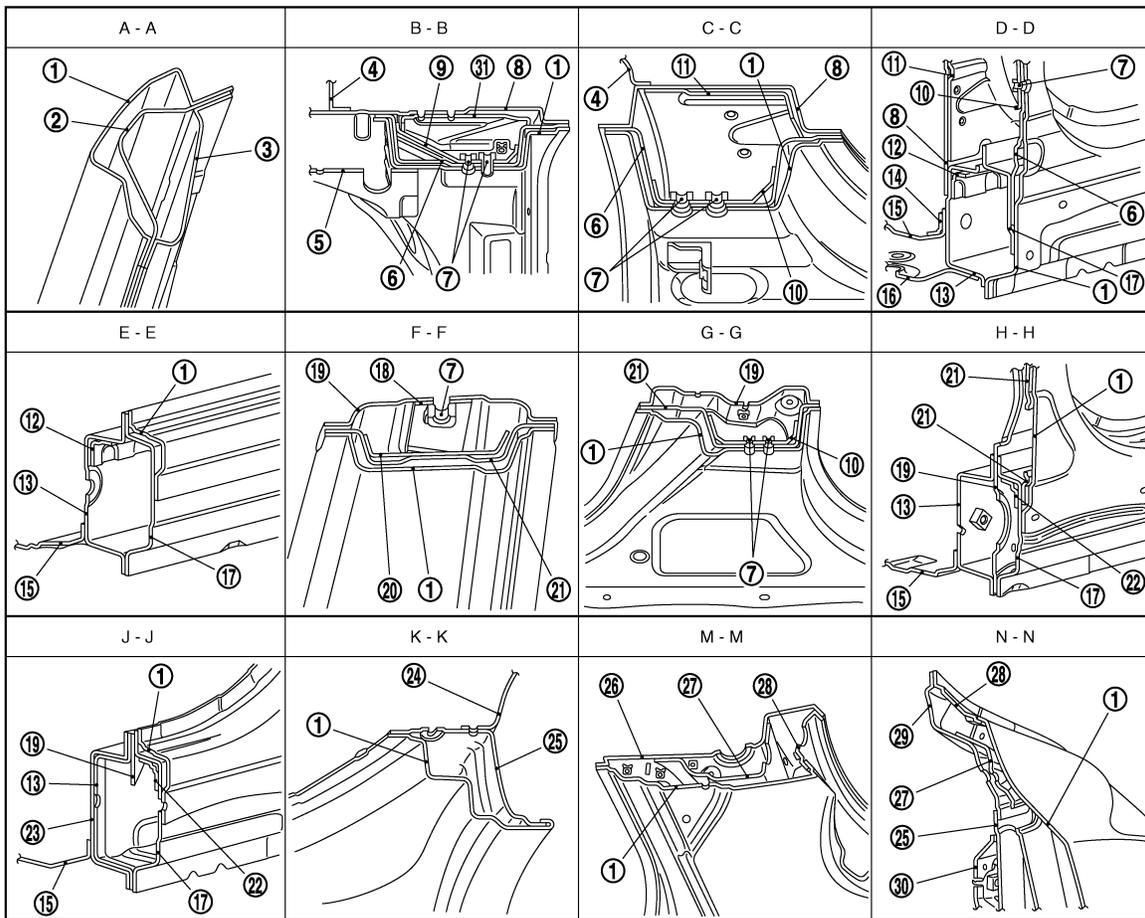
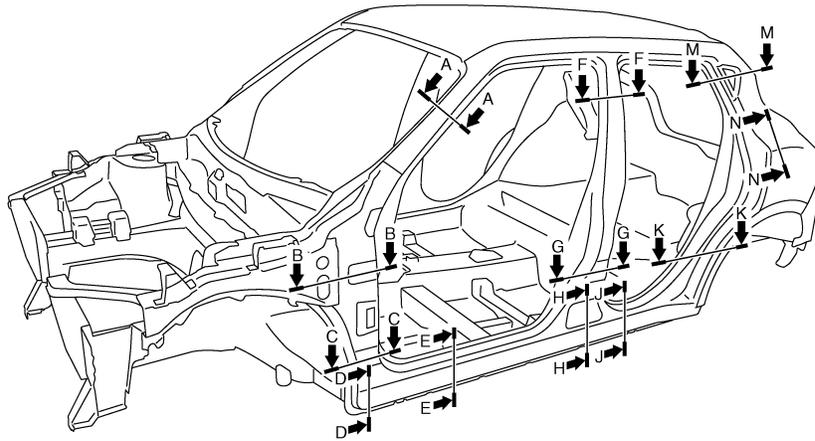
- | | | |
|-------------------------------|--------------------------------------|---|
| 10. Lower hinge plate | 11. Inner front pillar reinforcement | 12. Inner front sill reinforcement |
| 13. Inner sill | 14. Front floor reinforcement | 15. Front floor |
| 16. Front outrigger | 17. Outer sill reinforcement | 18. Plate nut |
| 19. Inner center pillar | 20. Center pillar reinforcement | 21. Center pillar hinge brace |
| 22. Center sill reinforcement | 23. Inner sill extension | 24. Inner rear wheelhouse |
| 25. Outer rear wheelhouse | 26. Rear roof rail brace | 27. Inner rear pillar reinforcement |
| 28. Rear fender extension | 29. Inner rear pillar | 30. Inner rear wheelhouse reinforcement |

BODY CONSTRUCTION

< REMOVAL AND INSTALLATION >

Body Construction (LHD Models)

INFOID:000000006482826



- | | | |
|-----------------------|--------------------------------------|------------------------------------|
| 1. Outer side body | 2. Outer front pillar reinforcement | 3. Upper inner front pillar |
| 4. Lower dash | 5. Hoodledge reinforcement | 6. Lower front pillar hinge brace |
| 7. Weld nut | 8. Side dash | 9. Upper hinge plate |
| 10. Lower hinge plate | 11. Inner front pillar reinforcement | 12. Inner front sill reinforcement |
| 13. Inner sill | 14. Front floor reinforcement | 15. Front floor |

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BODY CONSTRUCTION

< REMOVAL AND INSTALLATION >

- | | | |
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| 16. Front outrigger | 17. Outer sill reinforcement | 18. Plate nut |
| 19. Inner center pillar | 20. Center pillar reinforcement | 21. Center pillar hinge brace |
| 22. Center sill reinforcement | 23. Inner sill extension | 24. Inner rear wheelhouse |
| 25. Outer rear wheelhouse | 26. Rear roof rail brace | 27. Inner rear pillar reinforcement |
| 28. Rear fender extension | 29. Inner rear pillar | 30. Inner rear wheelhouse reinforcement |
| 31. Upper inner front pillar reinforcement | | |

Rear Fender Hemming Process

INFOID:000000006648942

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:

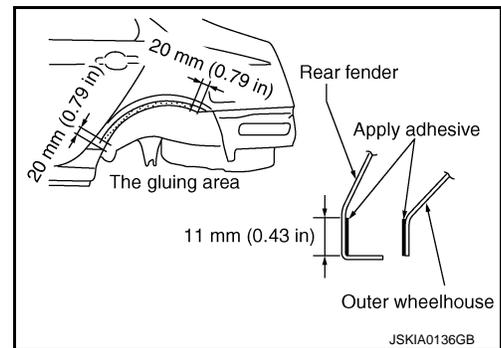
Ensure that the area that is to be glued around the outer wheelhouse is undamaged or defaced.

PROCEDURE OF THE HEMMING PROCESS

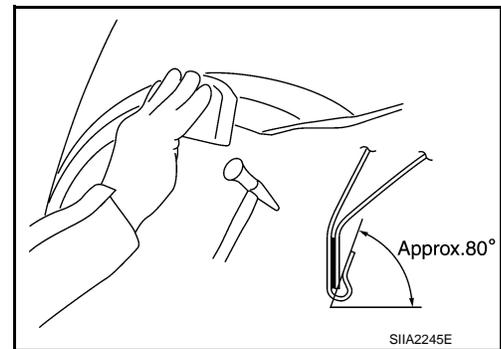
- Peel off old bonding material on the surface of the outer wheelhouse and clean thoroughly.
- Peel off a primer coat in the specified area where new adhesive is to be applied on rear fender (the replacing part).
- Apply new adhesive to both specified areas of the outer wheelhouse and rear fender.

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

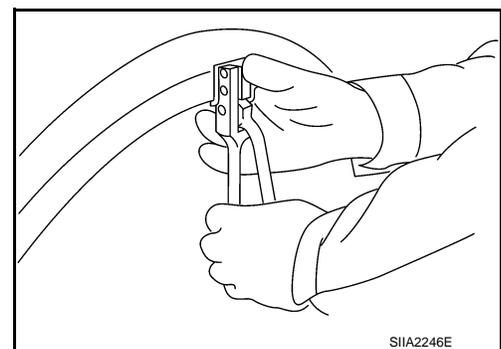
- Attach rear fender to the body of the car, and weld the required part except the hemming part.



- 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.



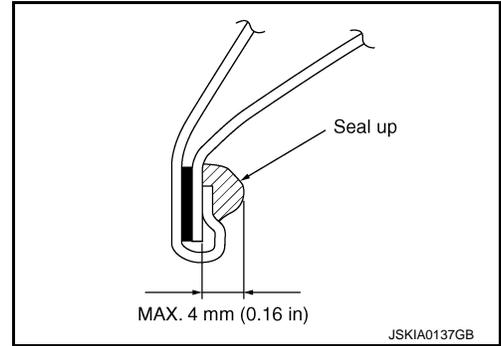
- Starting from the center, hem the wheel arch gradually, using slight back and forth motion with a hemming tool.



BODY CONSTRUCTION

< REMOVAL AND INSTALLATION >

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



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REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >

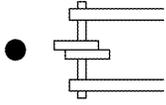
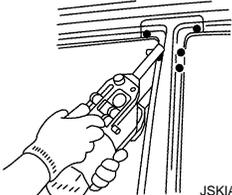
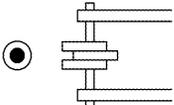
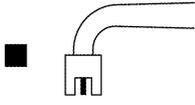
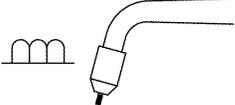
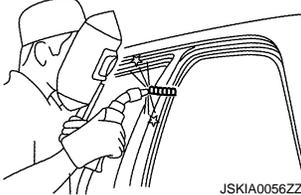
REPLACEMENT OPERATIONS

Description

INFOID:000000006482827

- 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.

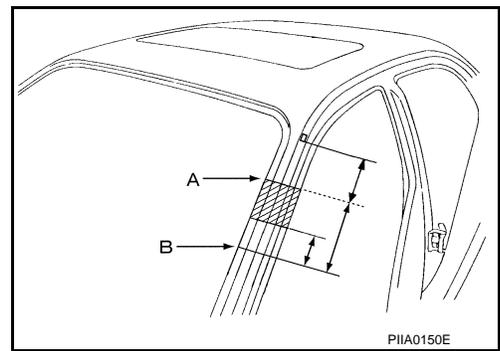
The symbols used in this section for welding operations are shown below.

Symbol marks	Description	
 <p data-bbox="402 844 490 861">JSKIA0049ZZ</p>	2-spot welds	 <p data-bbox="1291 970 1377 987">JSKIA0053ZZ</p>
 <p data-bbox="402 1096 490 1113">JSKIA0050ZZ</p>	3-spot welds	
 <p data-bbox="402 1474 490 1491">JSKIA0051ZZ</p>	MIG plug weld	 <p data-bbox="1291 1348 1377 1365">JSKIA0054ZZ</p> <p data-bbox="1006 1381 1323 1411">For 3 panels plug weld method</p> <div style="display: flex; flex-direction: column; align-items: center;"> <div data-bbox="1144 1438 1307 1480"> <p data-bbox="1144 1449 1177 1470">■ A</p>  </div> <div data-bbox="1144 1533 1307 1575"> <p data-bbox="1144 1543 1177 1564">■ B</p>  </div> </div> <p data-bbox="1291 1600 1377 1617">JSKIA0055ZZ</p>
 <p data-bbox="402 1852 490 1869">JSKIA0052ZZ</p>	MIG seam weld / Point weld	 <p data-bbox="1291 1852 1377 1869">JSKIA0056ZZ</p>

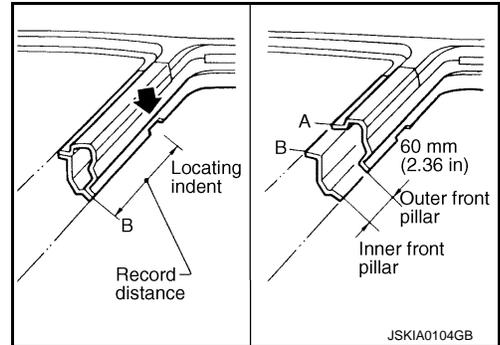
REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >

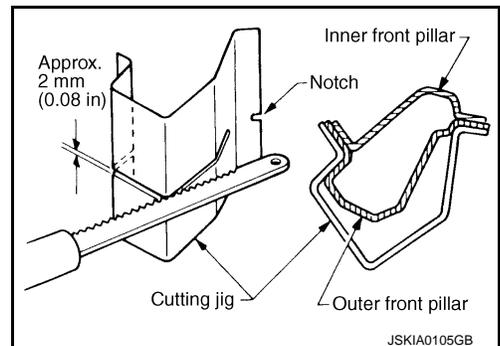
- Front pillar butt joint can be determined anywhere within shaded area as shown in the figure. The best location for the butt joint is at position A due to the construction of the vehicle.



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

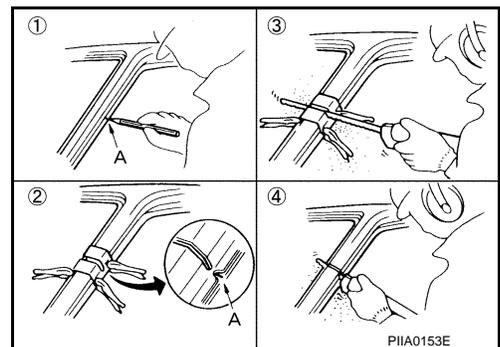


- Prepare a cutting jig to make outer pillar easier to cut. Also, this will permit the service part to be accurately cut at the joint position.



- 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.

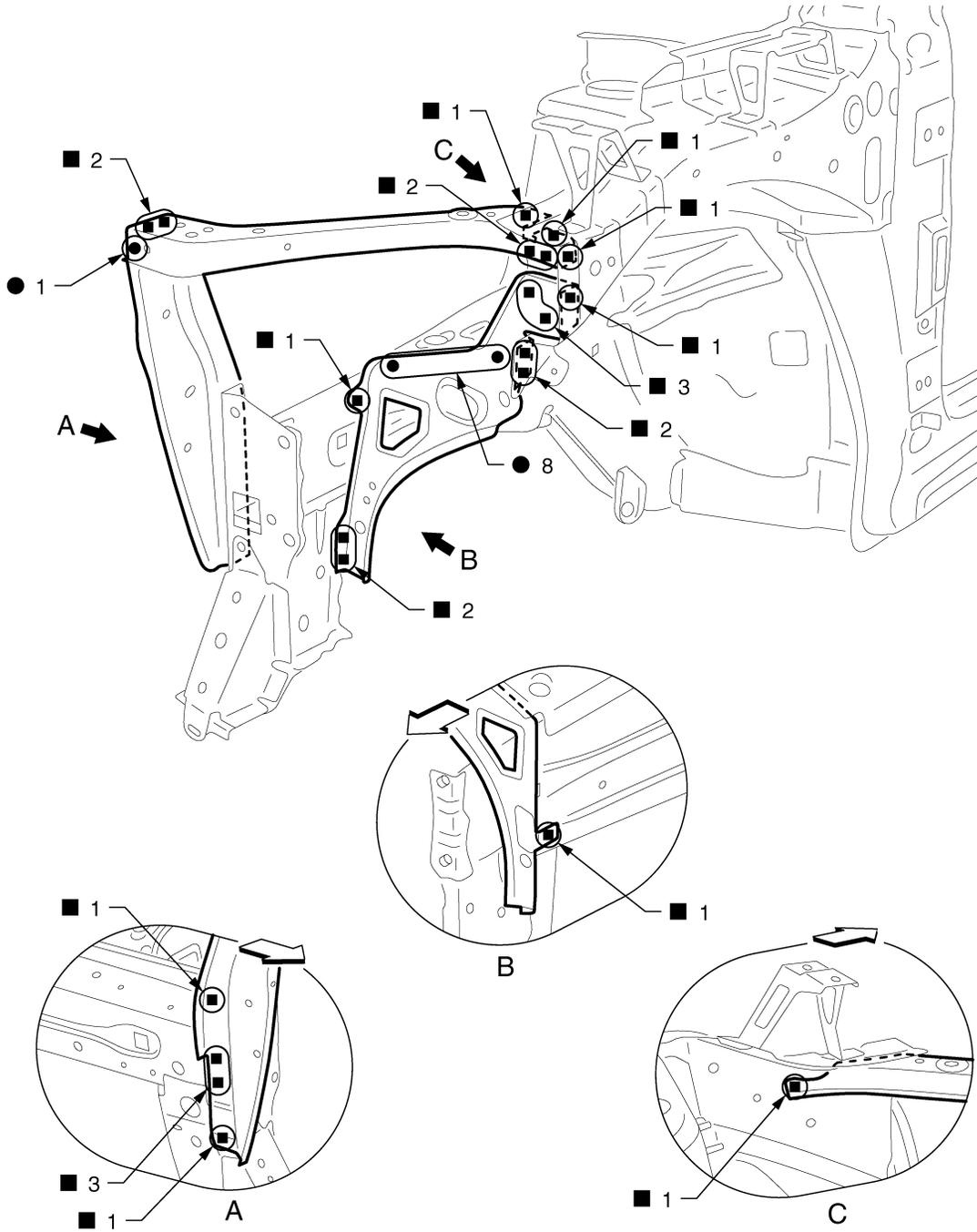


REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >

Radiator Core Support

INFOID:000000006482828



JSKIA2008ZZ

←: Vehicle front

Replacement parts

- Side radiator core support (LH Upper)
- Side radiator core support (LH Lower)
- Hoodledge connector (LH)

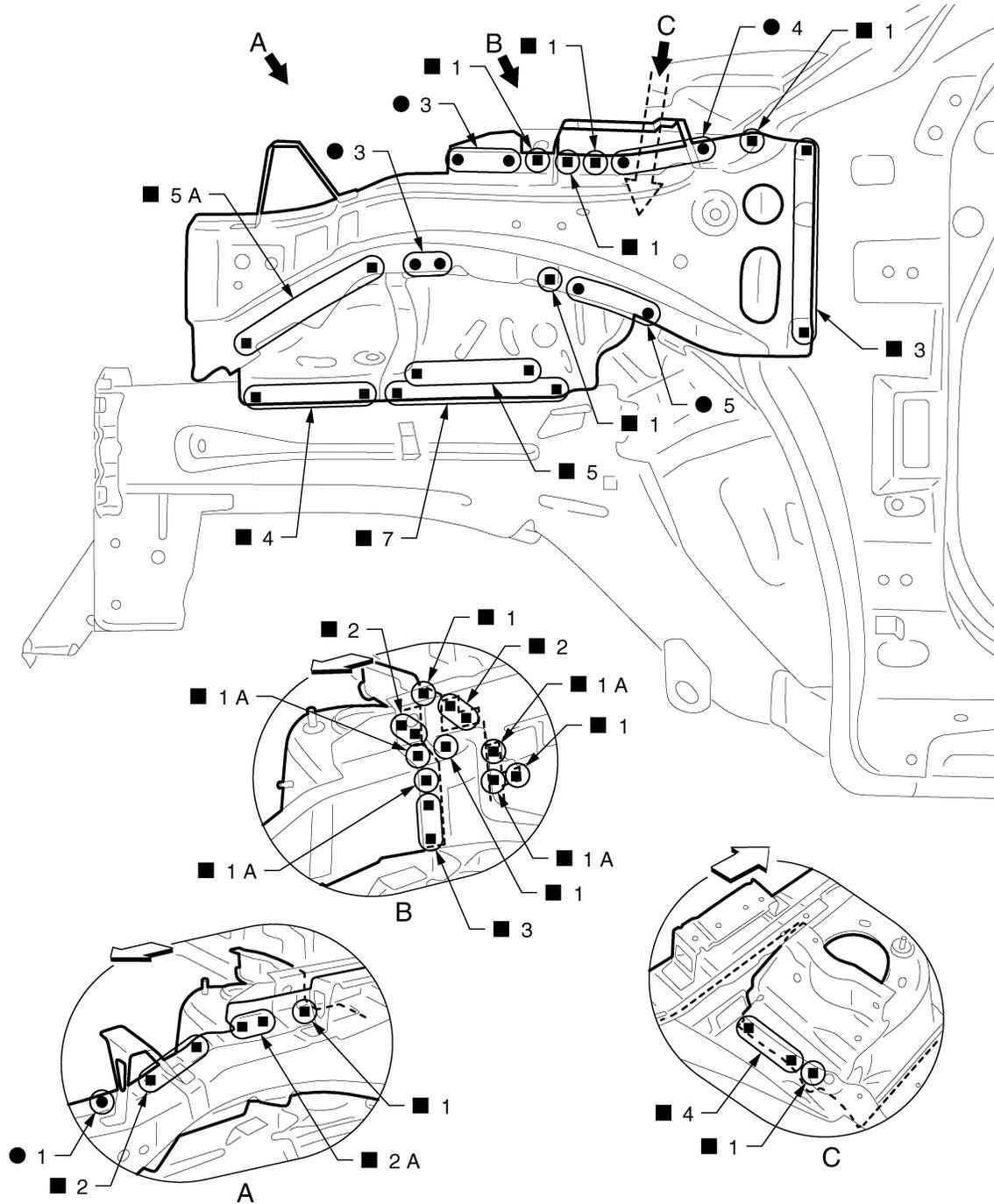
Hoodledge (RHD Models)

INFOID:000000006482829

Work after radiator core support is removed.

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >



JSKIA2009ZZ

←: Vehicle front

Replacement parts

● Front strut housing (LH)

● Hoodledge reinforcement (LH)

View B: Before installing hoodledge reinforcement

Hoodledge (LHD Models)

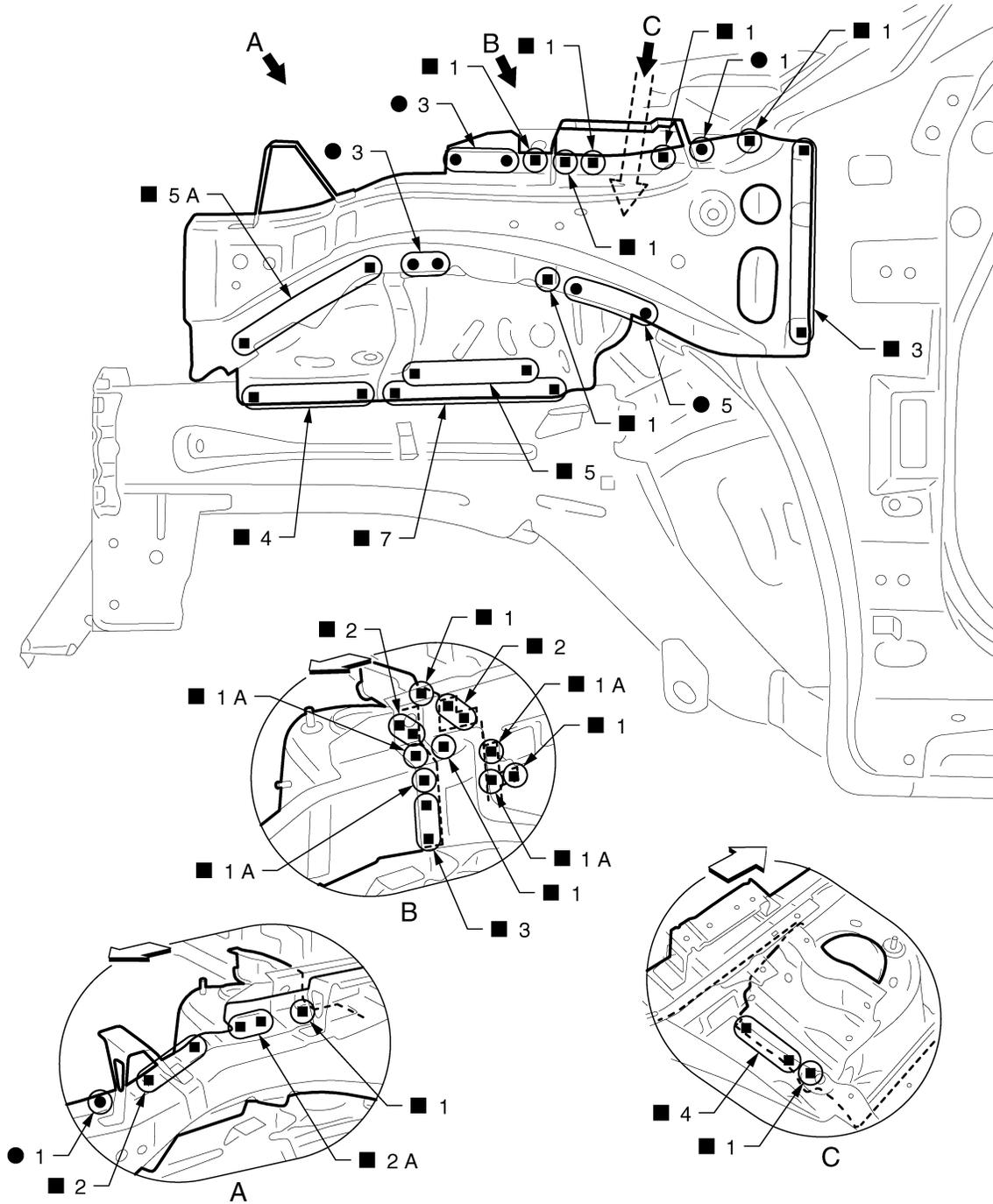
Work after radiator core support is removed.

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REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >



JSKIA2157ZZ

↔: Vehicle front

■ Replacement parts

● Front strut housing (LH)

● Hoodledge reinforcement (LH)

View B: Before installing hoodledge reinforcement

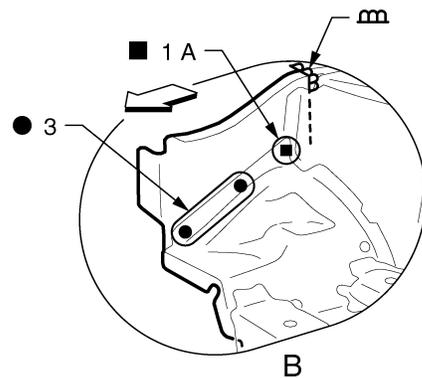
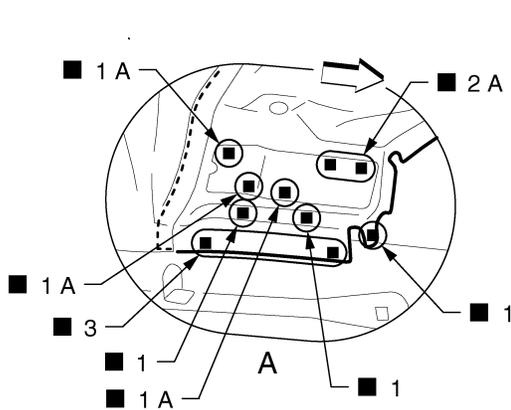
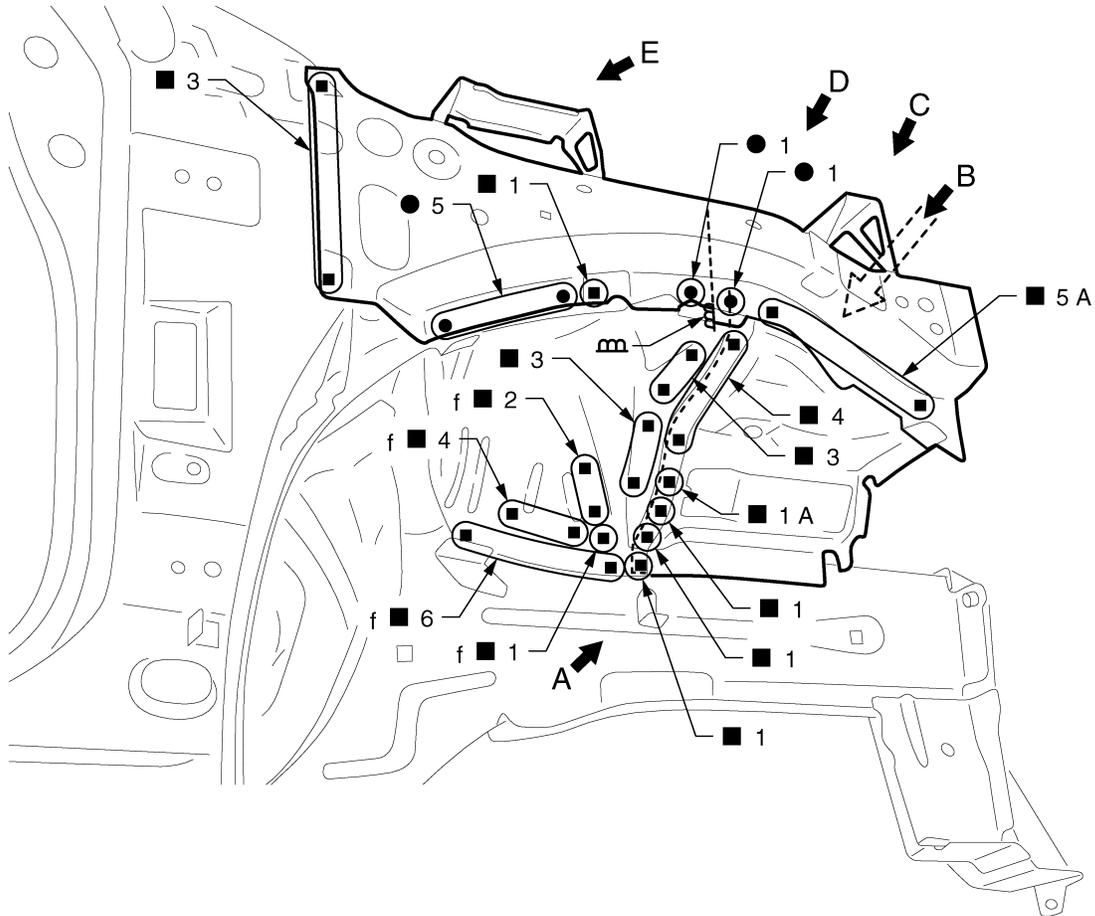
Hoodledge (RHD Models Partial Replacement)

INFOID:000000006482830

Work after radiator core support is removed.
Remove the welding points "f" for easier installation.

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >



←: Vehicle front

Replacement parts

● Upper hoodledge (RH)

● Lower front hoodledge (RH)

● Hoodledge reinforcement (RH)

View B: Before installing hoodledge reinforcement

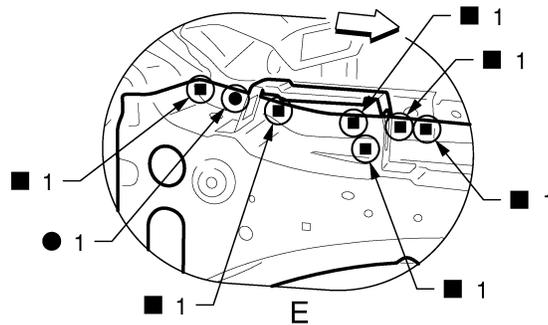
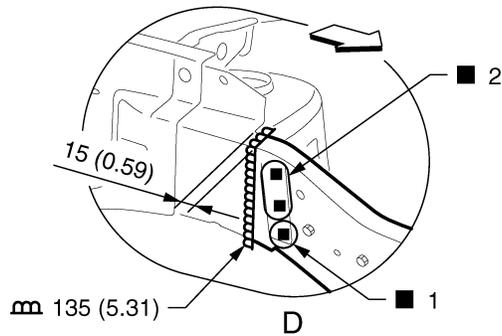
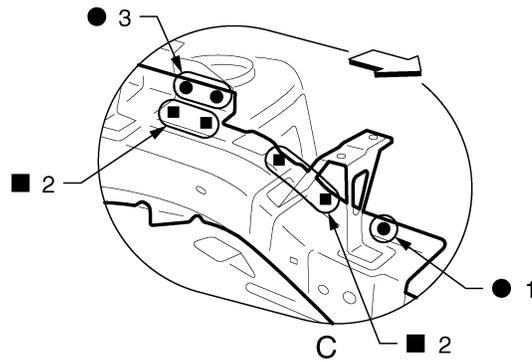
JSKIA2158ZZ

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REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >



JSKIA2034GB

Unit: mm (in)

↔: Vehicle front

View D: Before installing hoodledge reinforcement

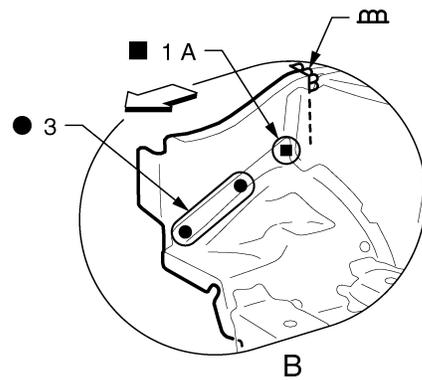
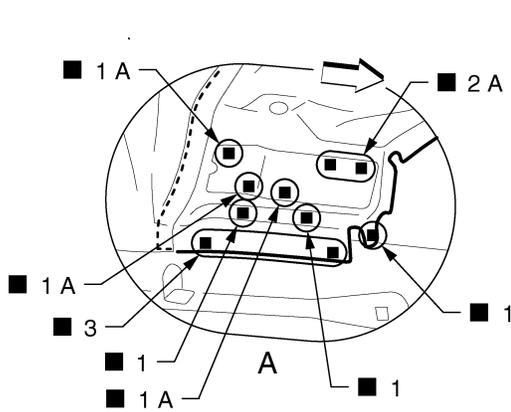
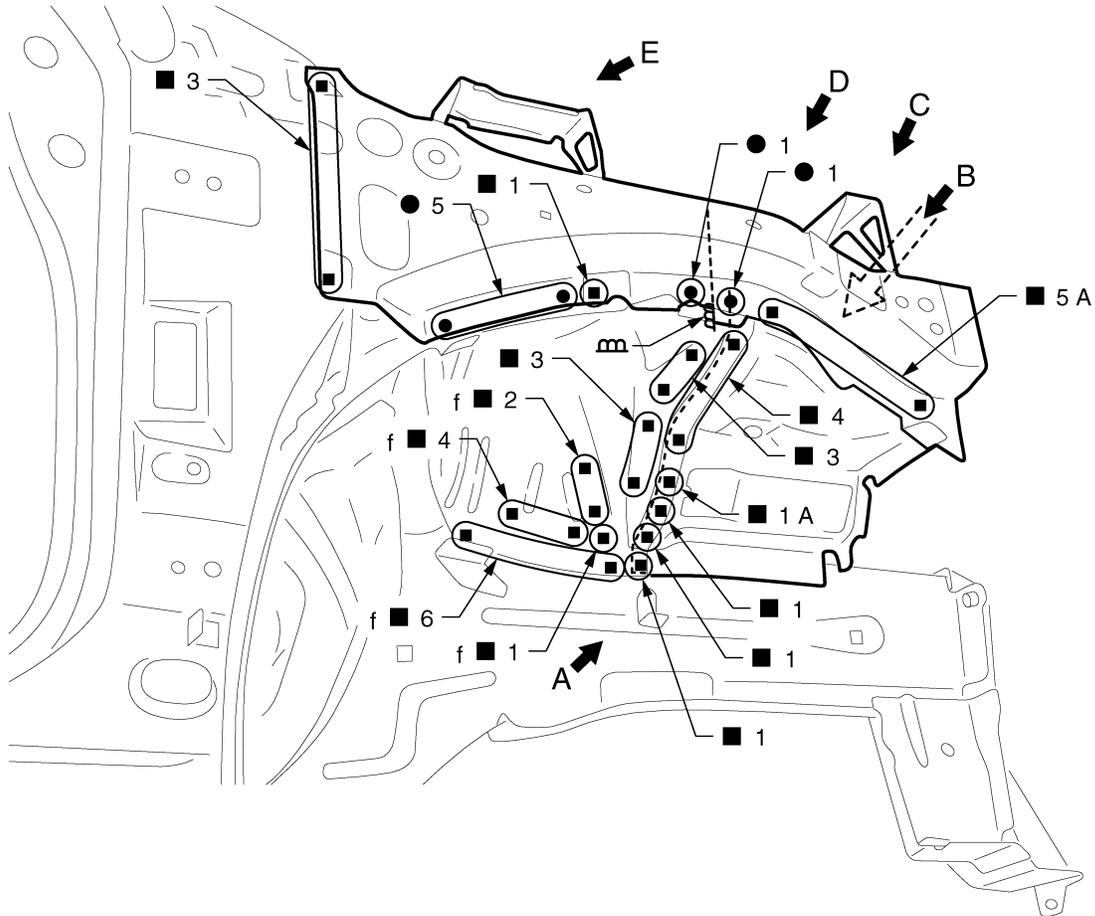
Hoodledge (LHD Models Partial Replacement)

INFOID:000000006482831

Work after radiator core support is removed.
Remove the welding points "f" for easier installation.

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >



JSKIA2158ZZ

←: Vehicle front

Replacement parts

● Upper hoodledge (RH)

● Lower front hoodledge (RH)

● Hoodledge reinforcement (RH)

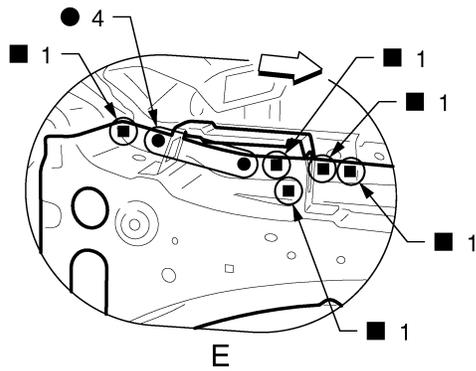
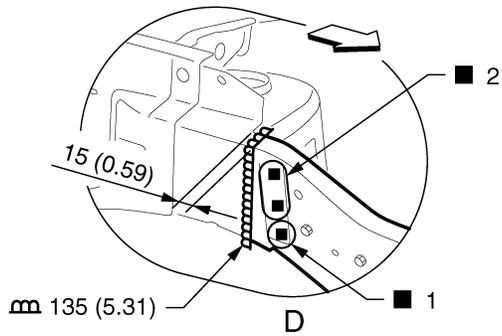
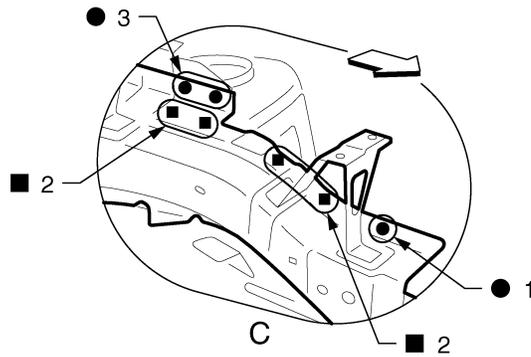
View B: Before installing hoodledge reinforcement

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REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >



JSKIA2159GB

Unit: mm (in)

⇐: Vehicle front

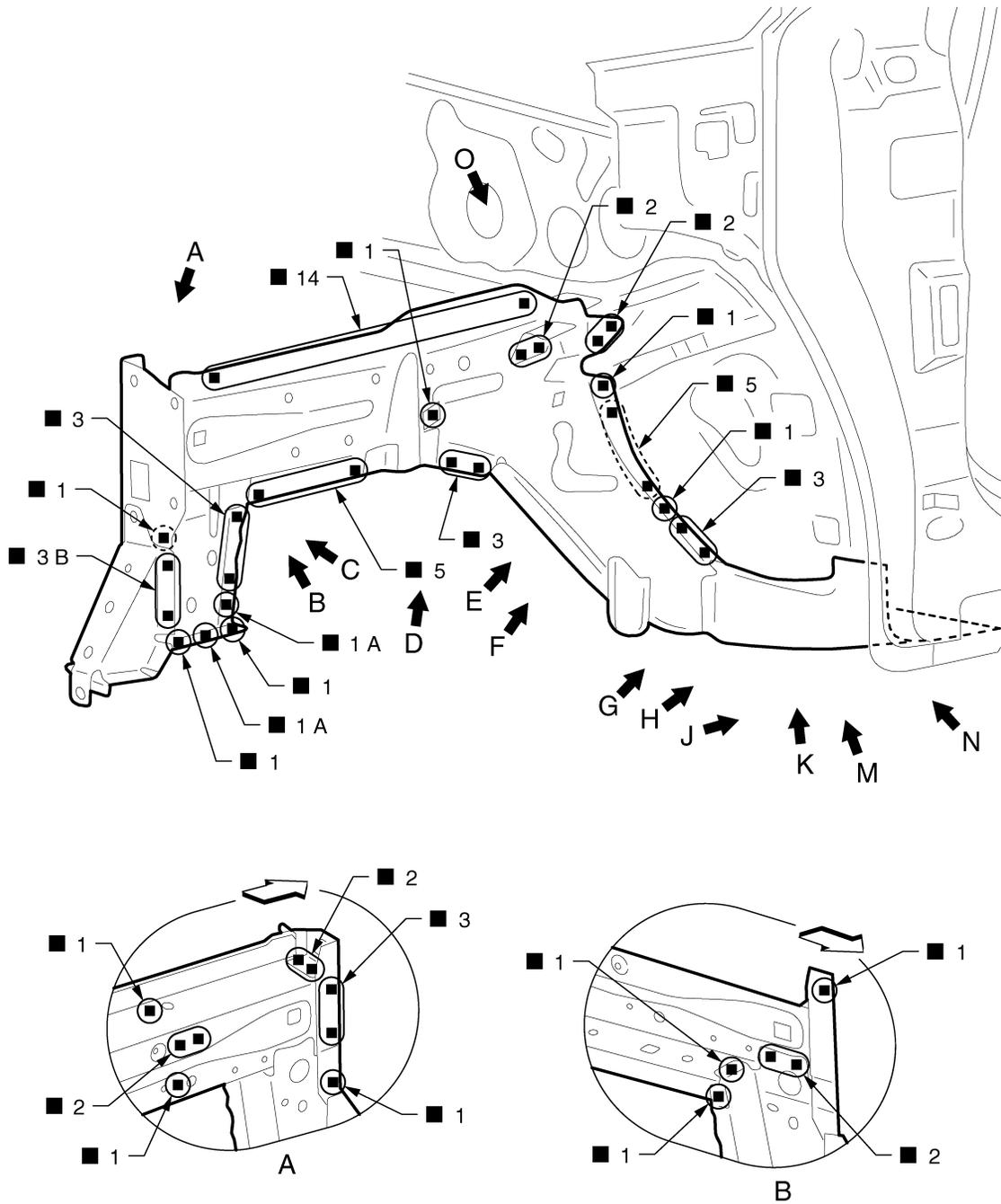
View D: Before installing hoodledge reinforcement
Front Side Member (2WD, RHD Models)

INFOID:000000006482832

Work after radiator core support and hoodledge are removed.

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >



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← Vehicle front

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

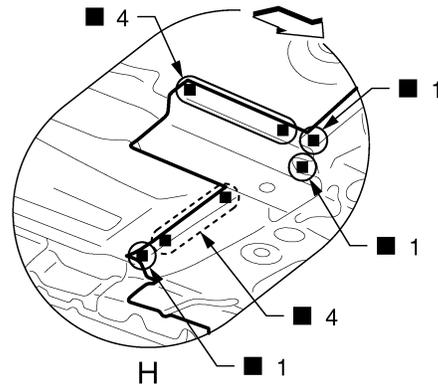
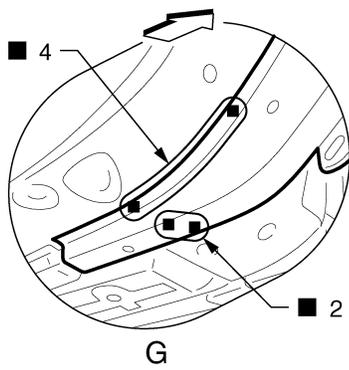
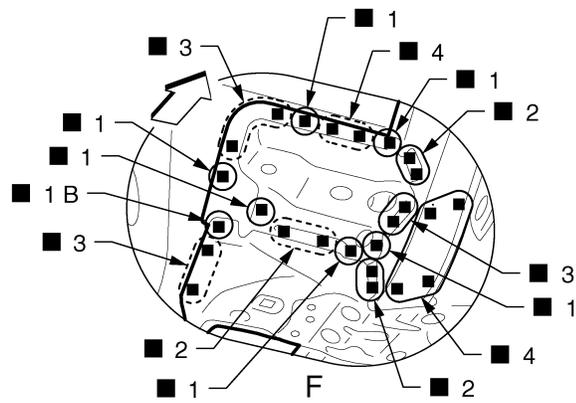
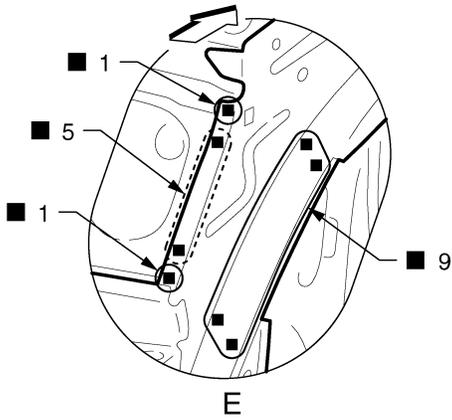
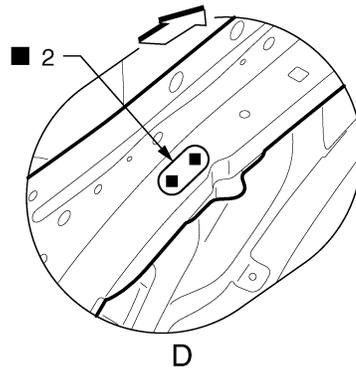
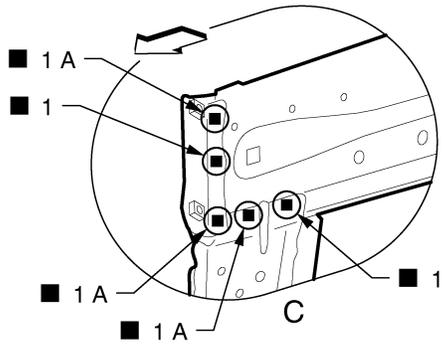
Replacement parts

- Front side member assembly (LH)
- Front side member reinforcement assembly
- Front towing hook reinforcement
- Sensor harness bracket (LH)
- Front suspension mounting bracket (LH Front)
- Tie down hook reinforcement
- Add on frame bracket (LH)
- Front brake hose bracket (LH)
- Engine mounting reinforcement
- Front side member closing plate assembly (LH)
- Front tie down hook
- Front suspension mounting bracket (LH Rear)

JSKIA2160ZZ

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >



JSKIA2161ZZ

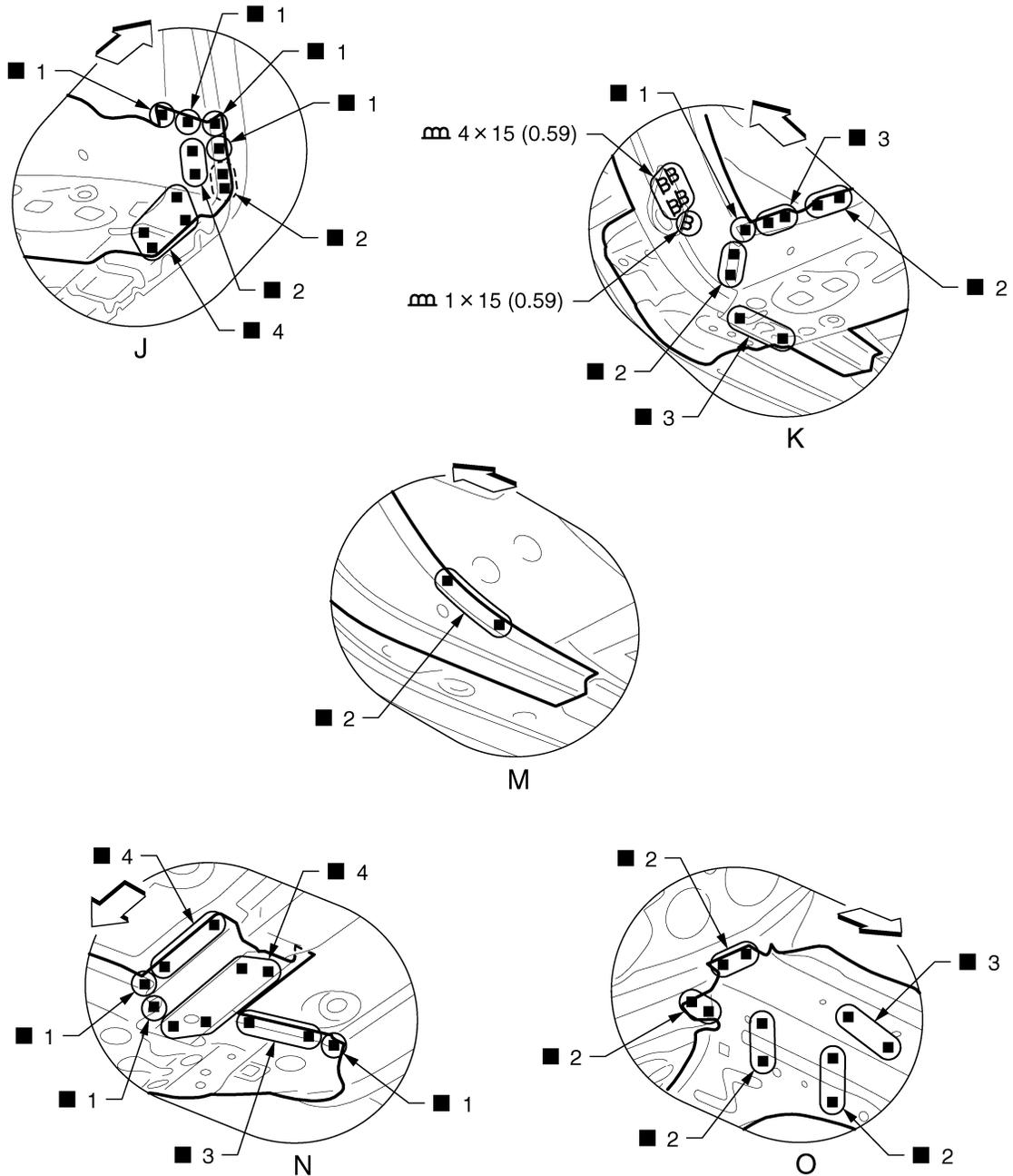
← Vehicle front

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

View G: Before installing front suspension mounting bracket (Rear)

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >



JSKIA2162GB

Unit: mm (in)

⇐: Vehicle front

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

View M: Before installing front suspension mounting bracket (Rear)
Front Side Member (2WD, LHD Models)

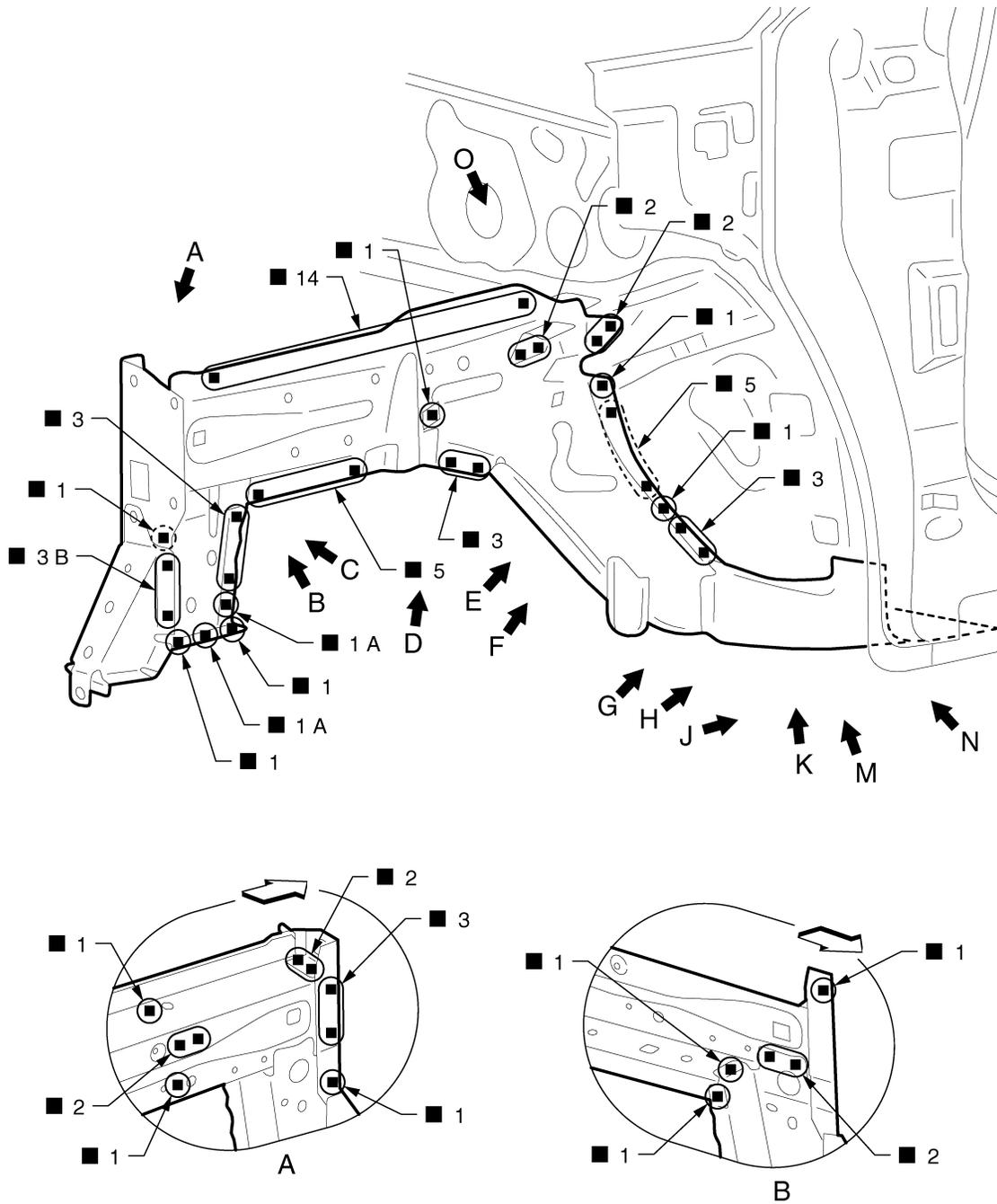
Work after radiator core support and hoodledge are removed.

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REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >



JSKIA2160ZZ

← Vehicle front

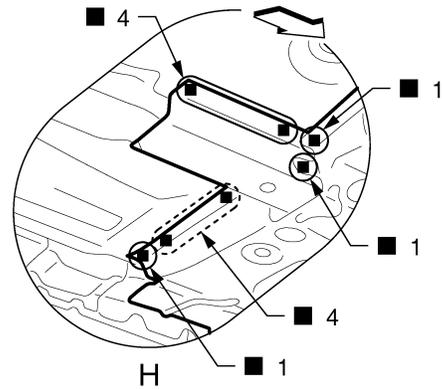
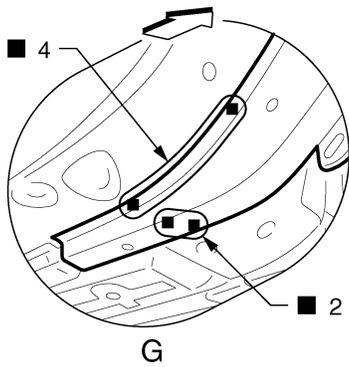
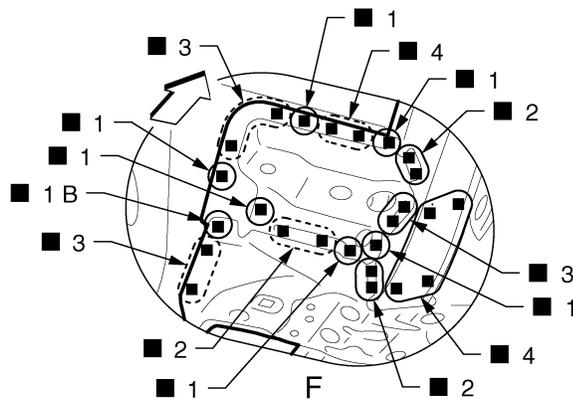
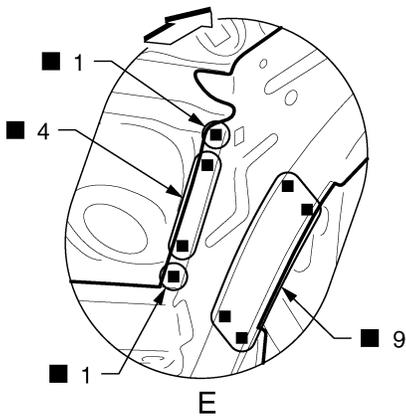
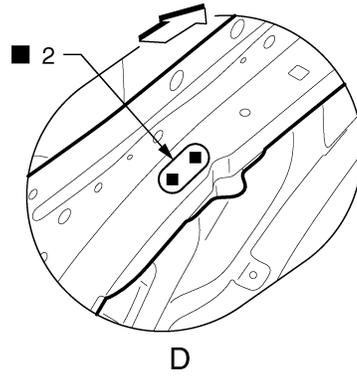
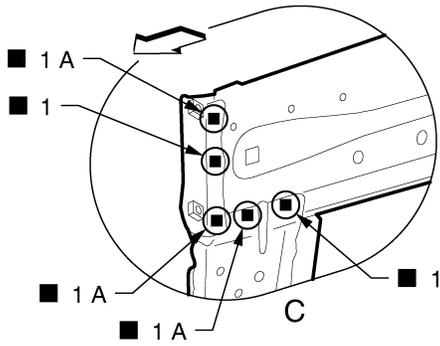
○ Weld the parts onto the back of the component part.

Replacement parts

- Front side member assembly (LH)
- Front side member reinforcement assembly
- Front towing hook reinforcement
- Sensor harness bracket (LH)
- Front suspension mounting bracket (LH Front)
- Tie down hook reinforcement
- Add on frame bracket
- Front brake hose bracket (LH)
- Engine mounting reinforcement
- Front side member closing plate assembly (LH)
- Front tie down hook
- Front suspension mounting bracket (LH Rear)

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >



← Vehicle front

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

View G: Before installing front suspension mounting bracket (Rear)

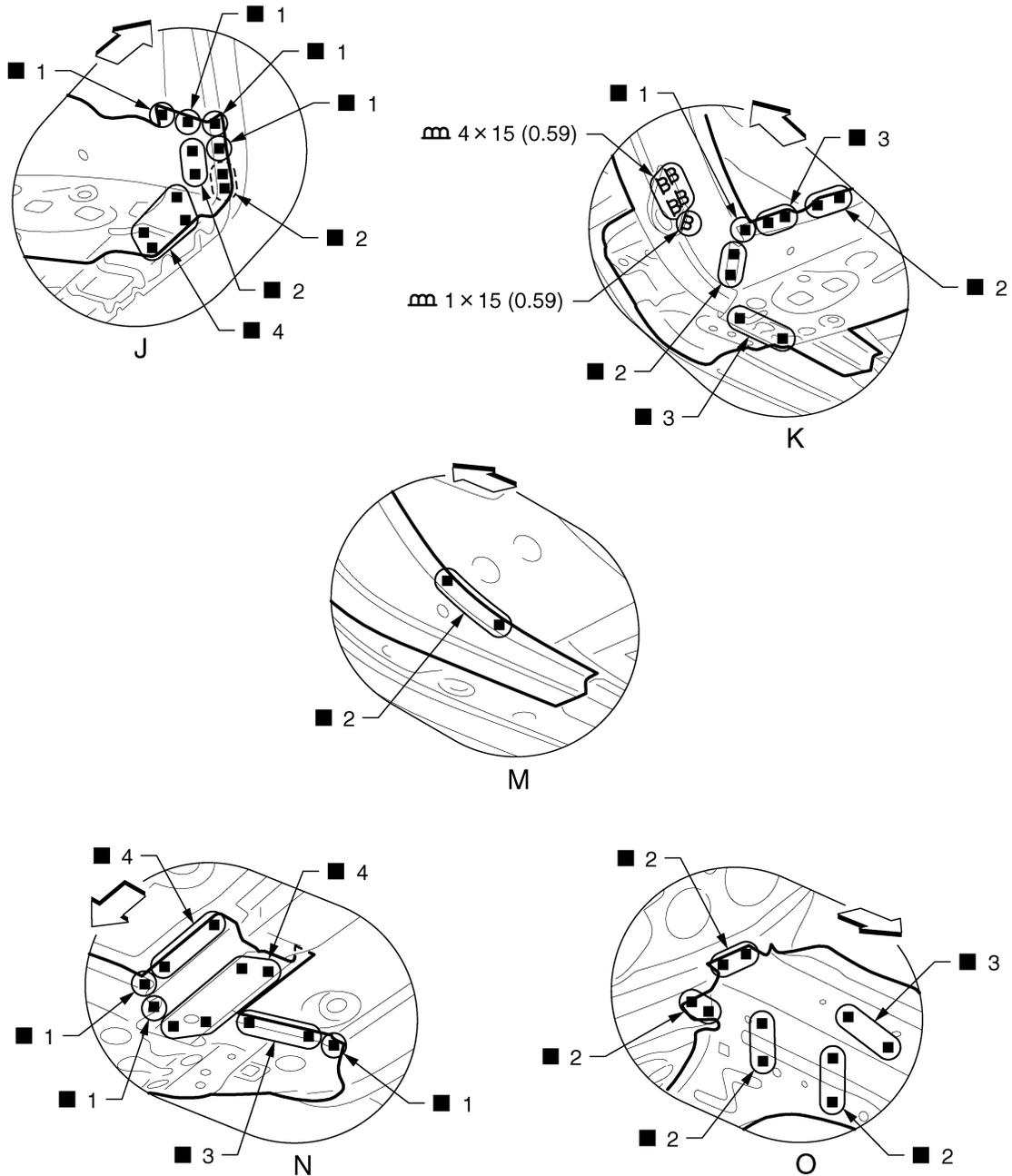
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JSKIA2163ZZ

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >



JSKIA2162GB

Unit: mm (in)

↔: Vehicle front

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

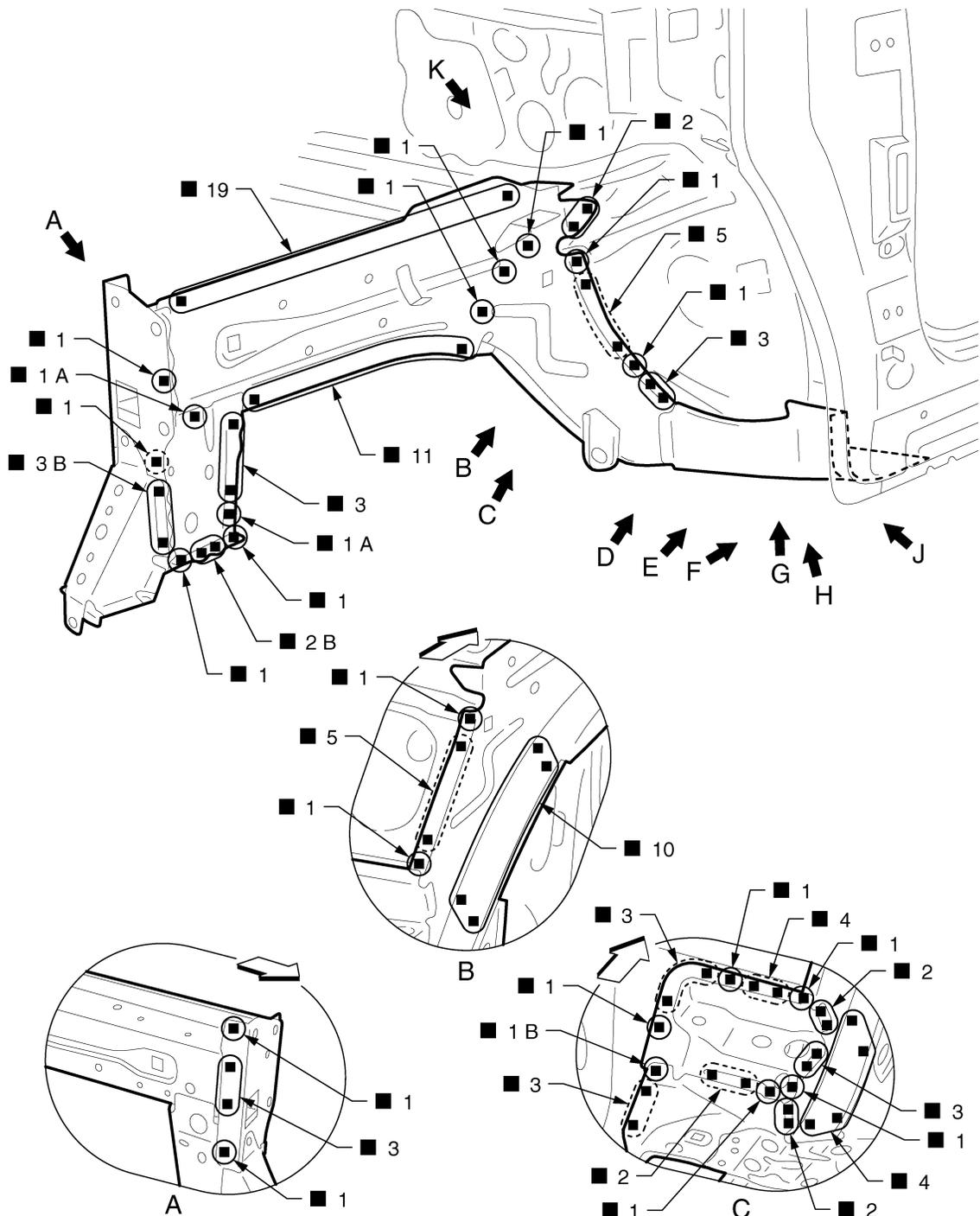
View M: Before installing front suspension mounting bracket (Rear)
Front Side Member (4WD, RHD Models)

INFOID:000000006517506

Work after radiator core support and hoodledge are removed.

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >



JSKIA2011ZZ

← Vehicle front

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

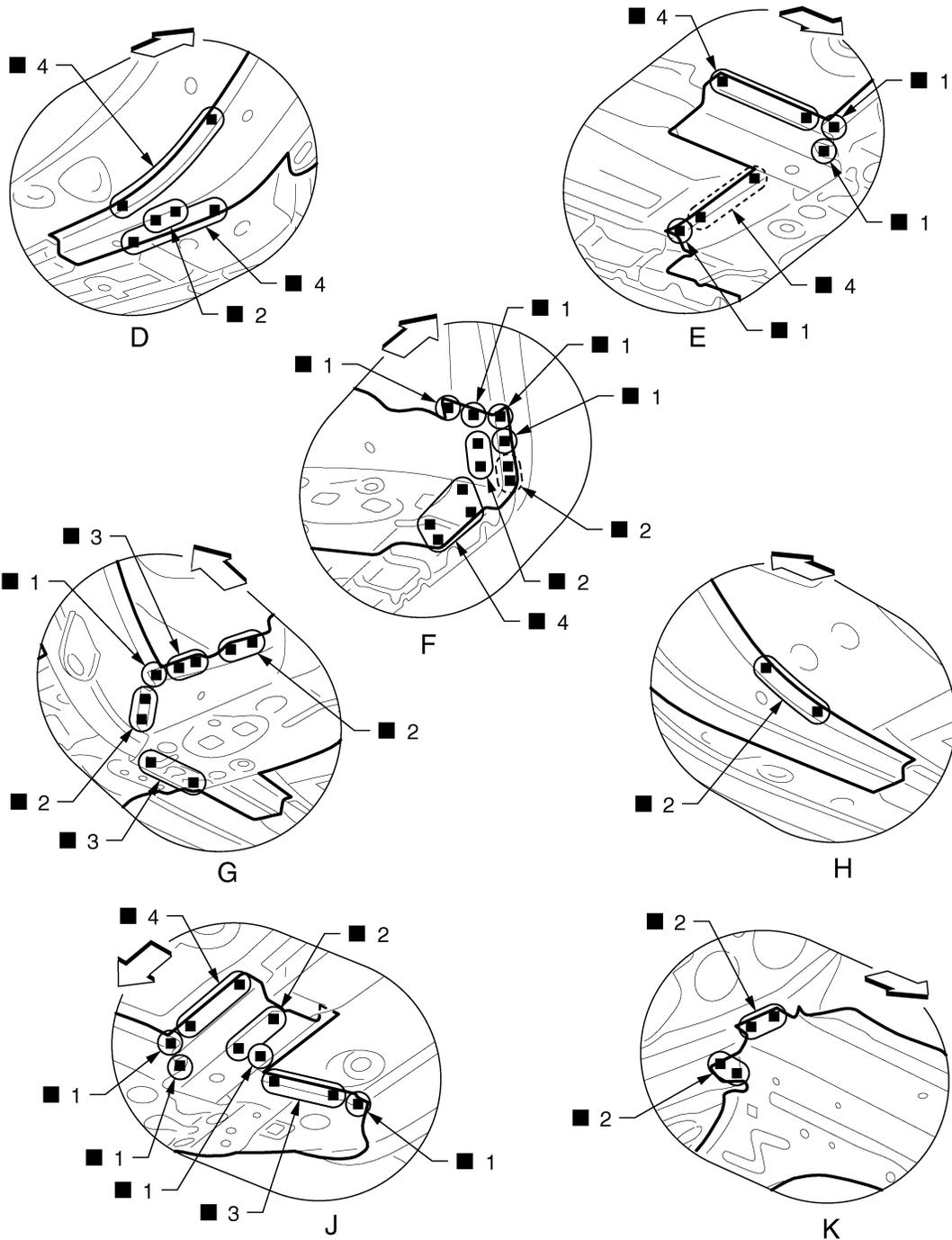
Replacement parts

- Front side member assembly (LH)
- Front side member closing plate assembly (LH)
- Front suspension mounting bracket (LH Rear)

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REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >



JSKIA2164ZZ

←: Vehicle front

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

View D and H: Before installing front suspension mounting bracket (Rear)

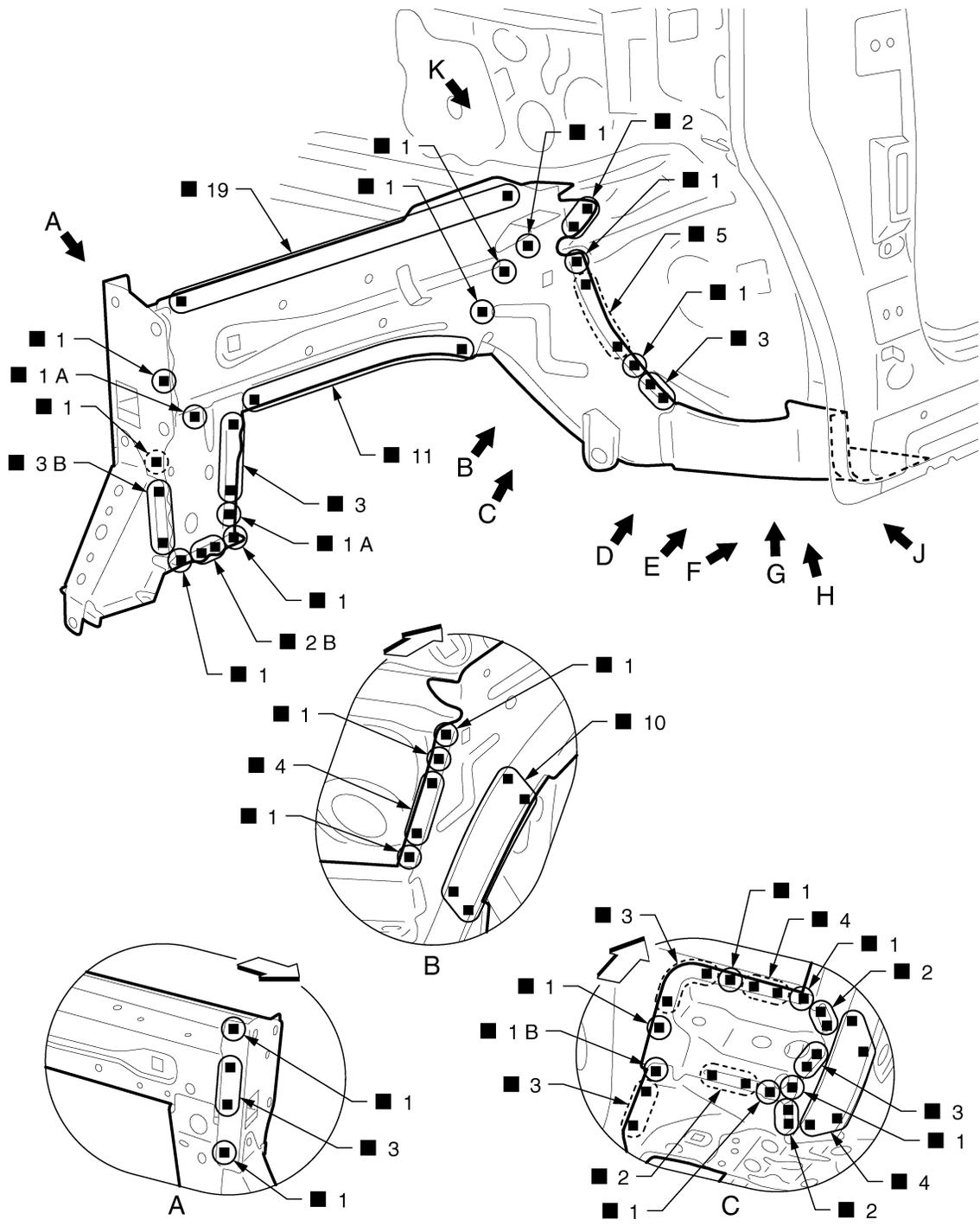
Front Side Member (4WD, LHD Models)

INFOID:000000006517472

Work after radiator core support and hoodledge are removed.

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >



← Vehicle front

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

Replacement parts

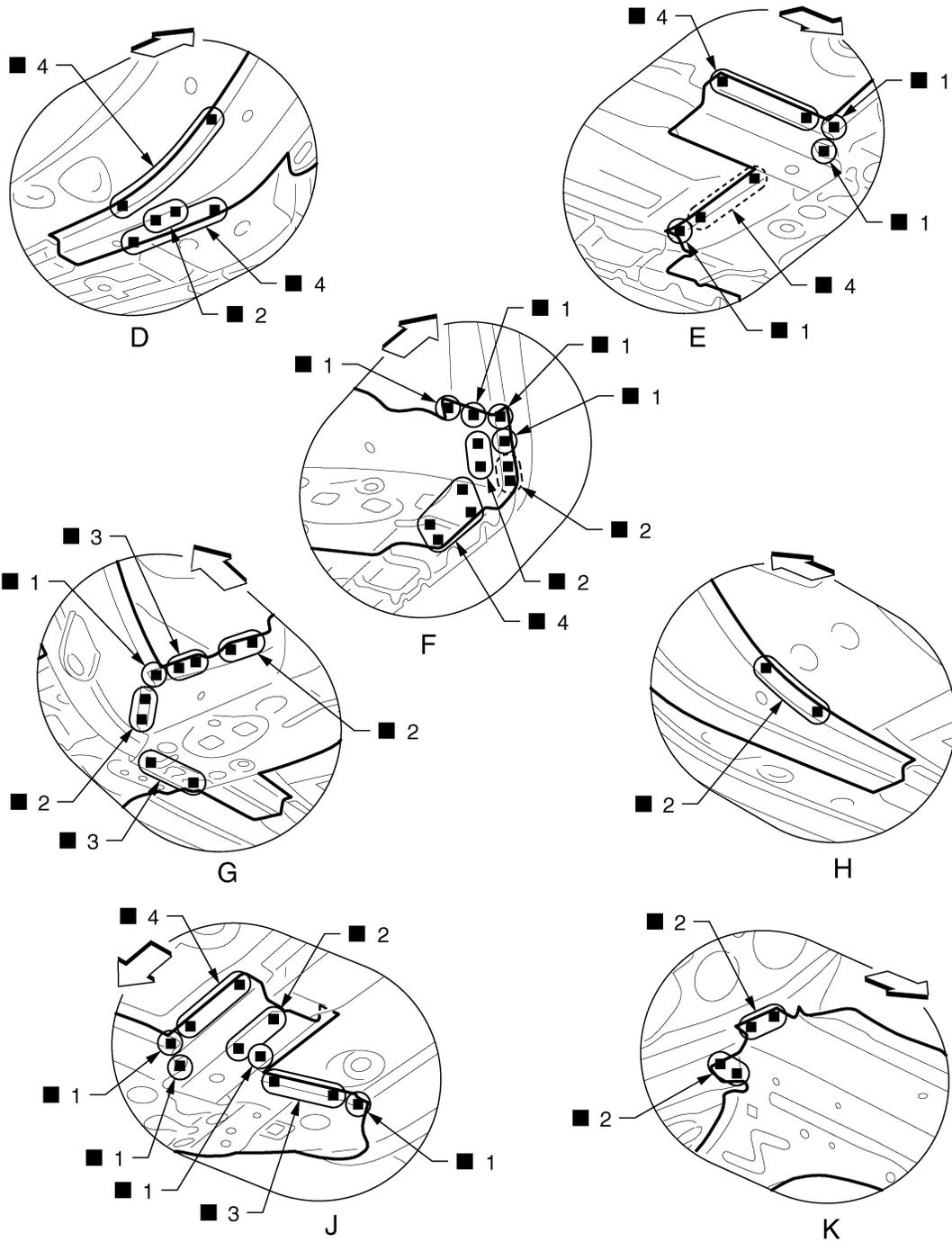
- Front side member assembly (LH)
- Front side member closing plate assembly (LH)
- Front suspension mounting bracket (LH Rear)

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REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >



JSKIA2164ZZ

←: Vehicle front

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

View D and H: Before installing front suspension mounting bracket (Rear)

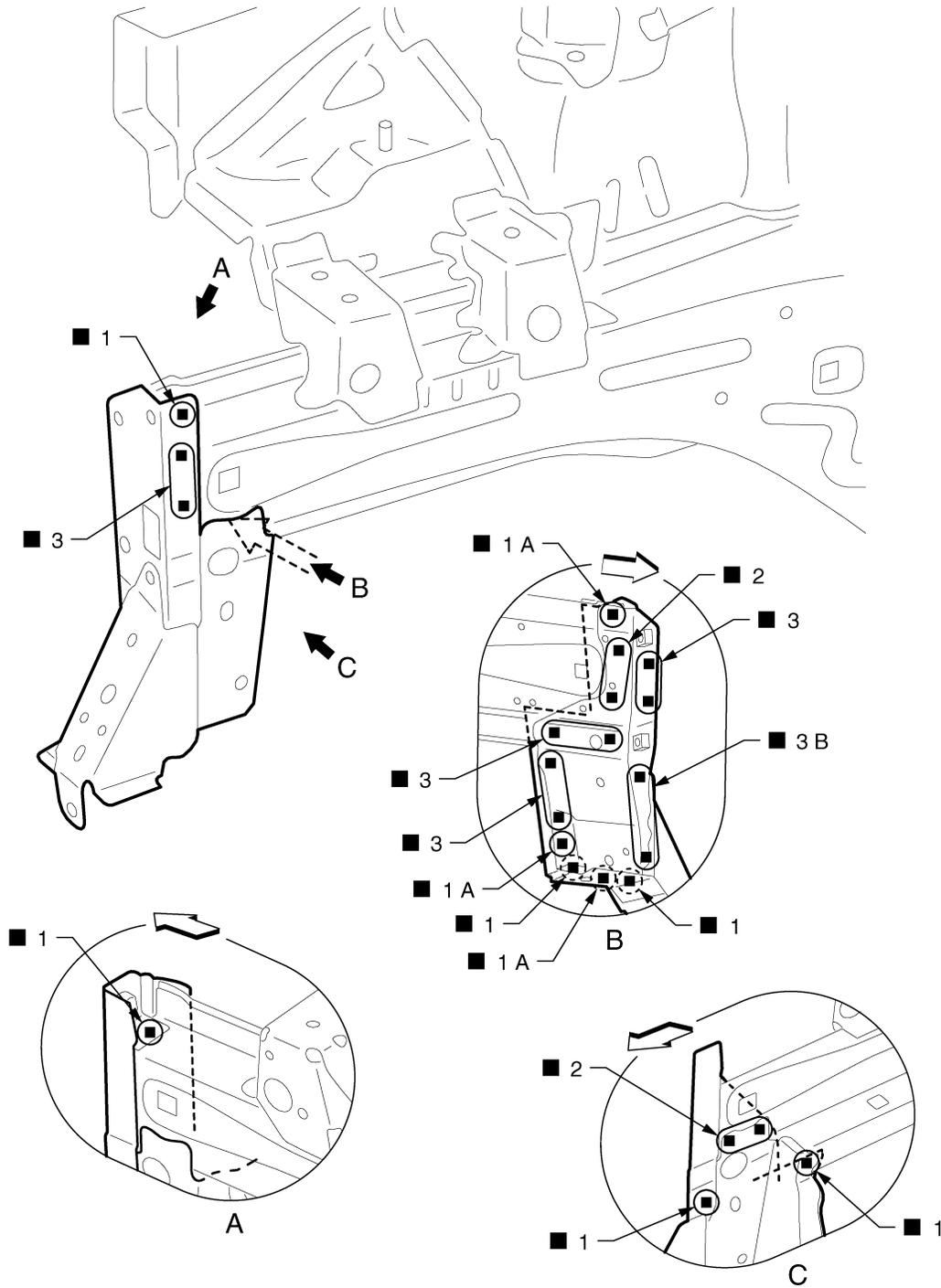
Front Side Member (2WD Models Partial Replacement)

INFOID:000000006482833

Work after radiator core support is removed.

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >



JSKIA2166ZZ

←: Vehicle front

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

Replacement parts

- Front suspension mounting bracket (RH Front)
- Add on frame bracket (RH)

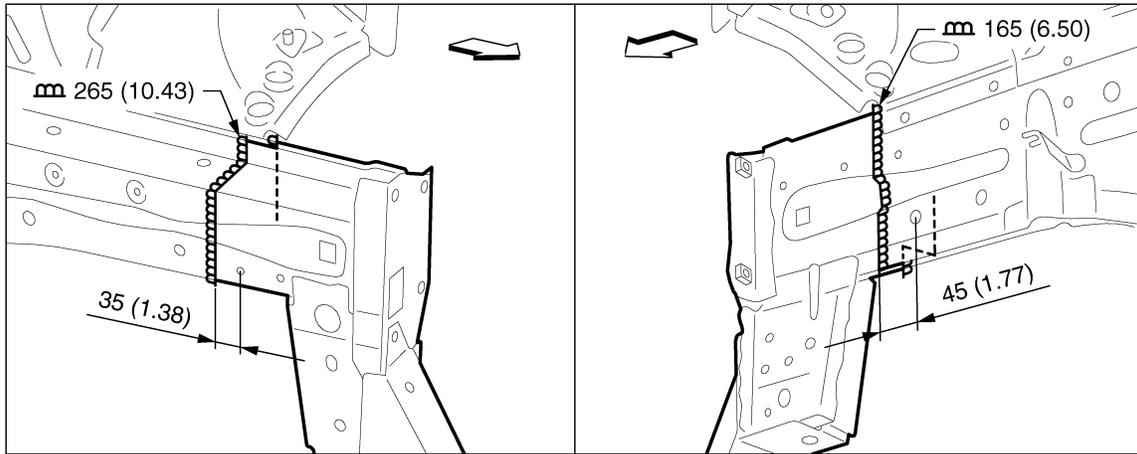
POINT

The front side member on the left can also be replaced partially by butt welding.

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REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >



JSKIA2167GB

Unit: mm (in)

↔: Vehicle front

Replacement parts

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

NOTE:

For welding method and the number of welding points, refer to [BRM-50, "Front Side Member \(2WD, RHD Models\)"](#) or [BRM-53, "Front Side Member \(2WD, LHD Models\)"](#).

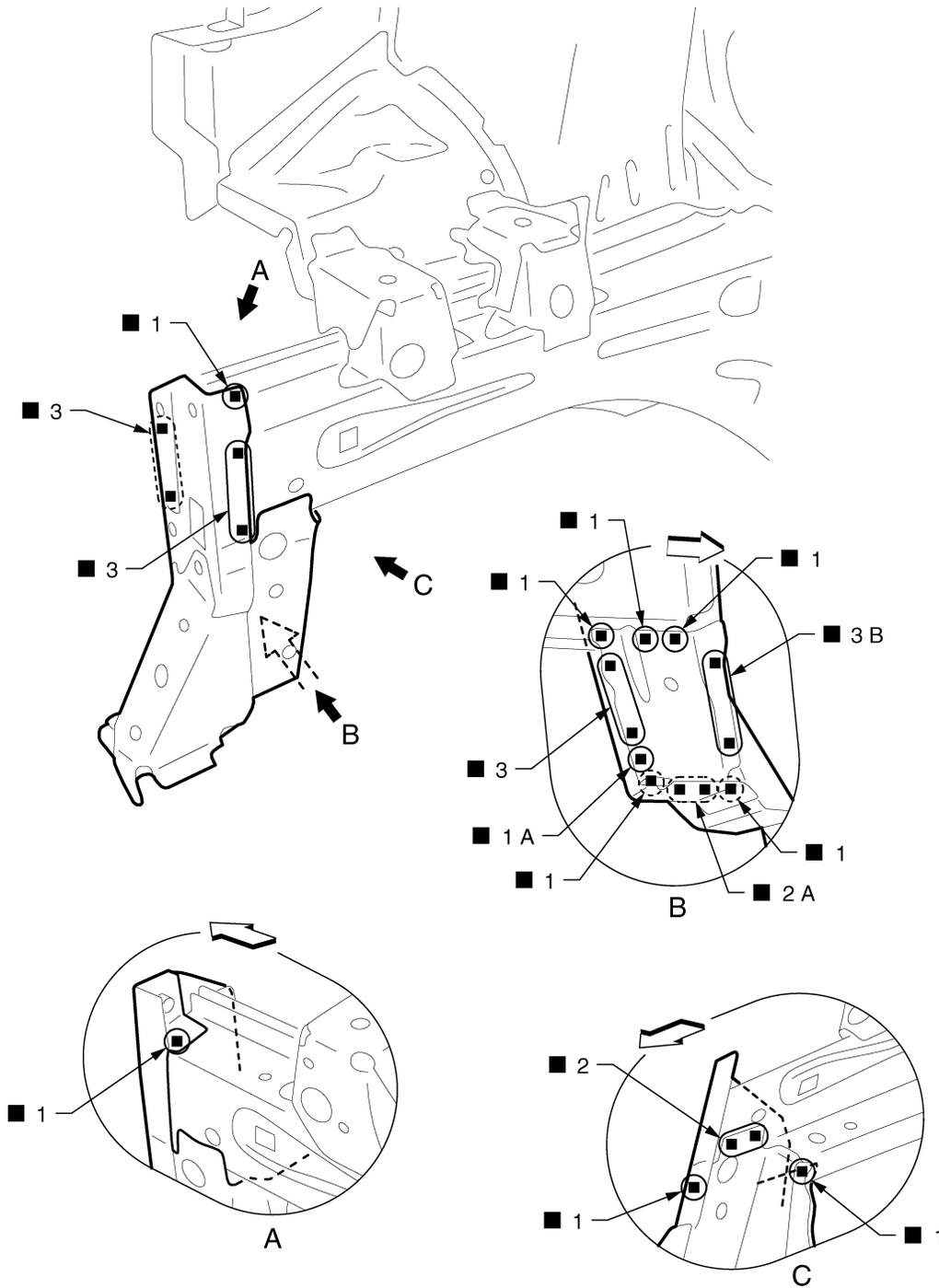
Front Side Member (4WD Models Partial Replacement)

INFOID:000000006517507

Work after radiator core support is removed.

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >



JSKIA2013ZZ

←: Vehicle front

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

Replacement parts

- Front suspension mounting bracket (RH Front)
- Add on frame bracket (RH)

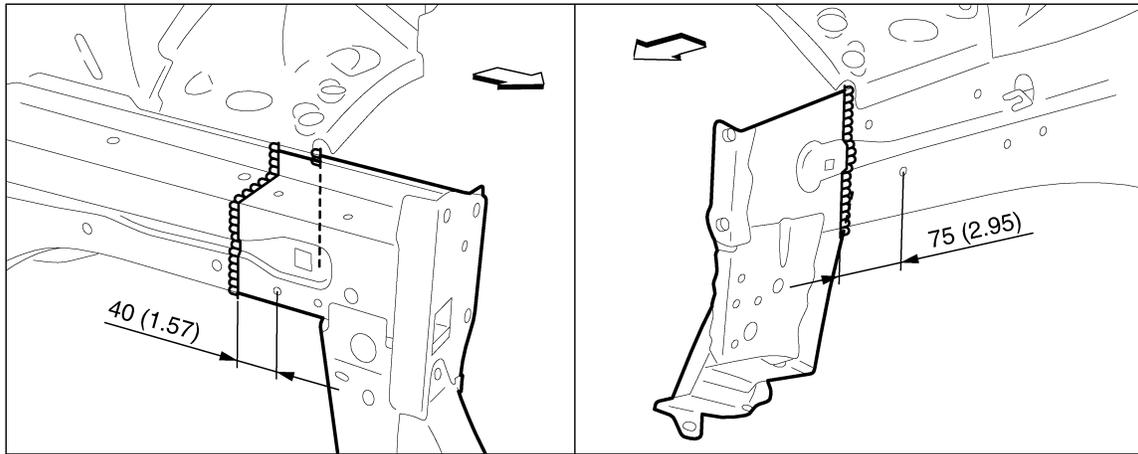
POINT

The front side member on the left can also be replaced partially by butt welding.

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REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >



JSKIA2014GB

Unit: mm (in)

↔: Vehicle front

Replacement parts

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

NOTE:

For welding method and the number of welding points, refer to [BRM-56, "Front Side Member \(4WD, RHD Models\)"](#) or [BRM-58, "Front Side Member \(4WD, LHD Models\)"](#).

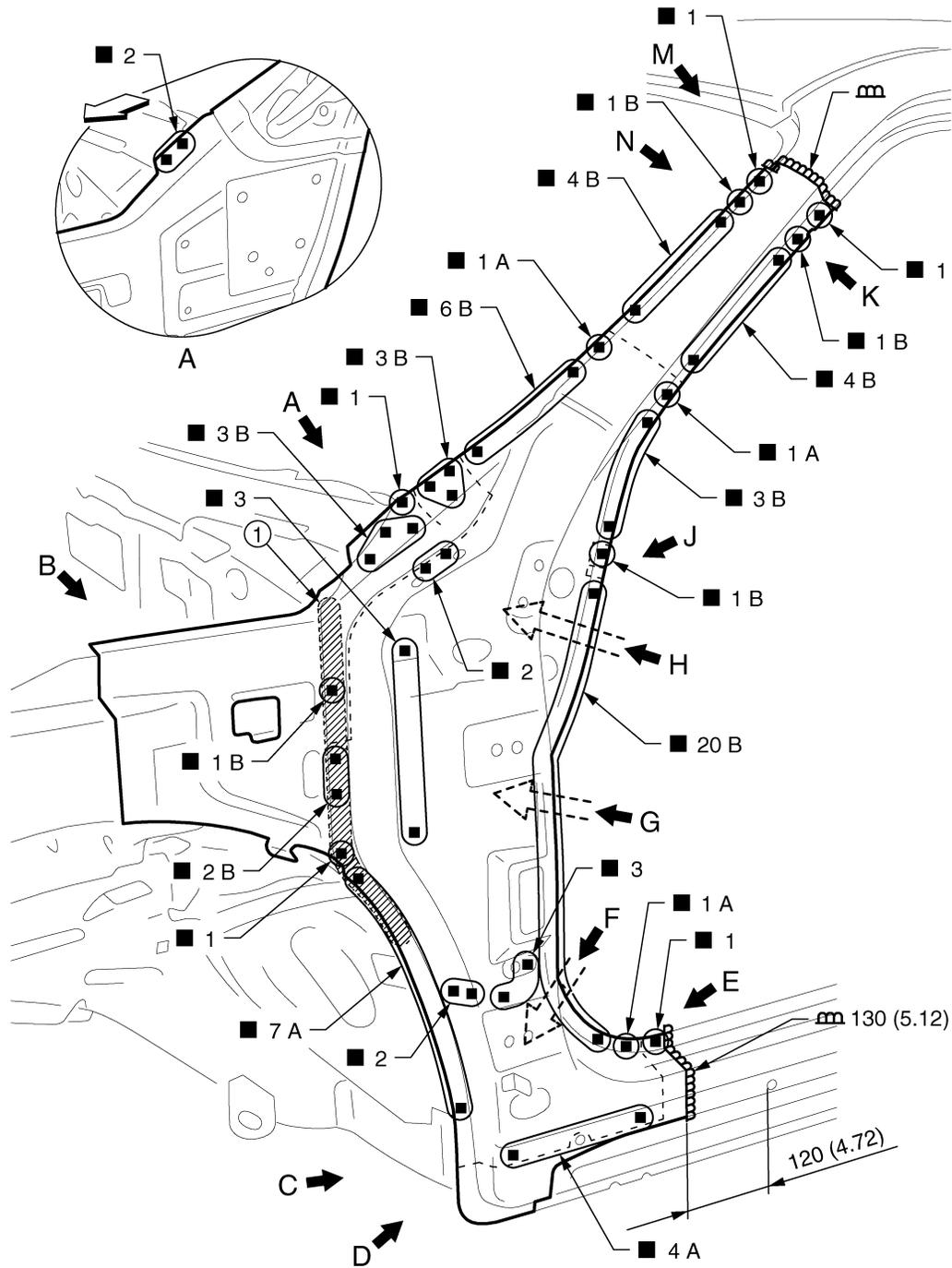
Front Pillar (RHD Models)

INFOID:000000006482834

Work after hoodledge reinforcement is removed.

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >



JSKIA2015GB

1. Body sealing

Unit: mm (in)

◀: Vehicle front

Replacement parts

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

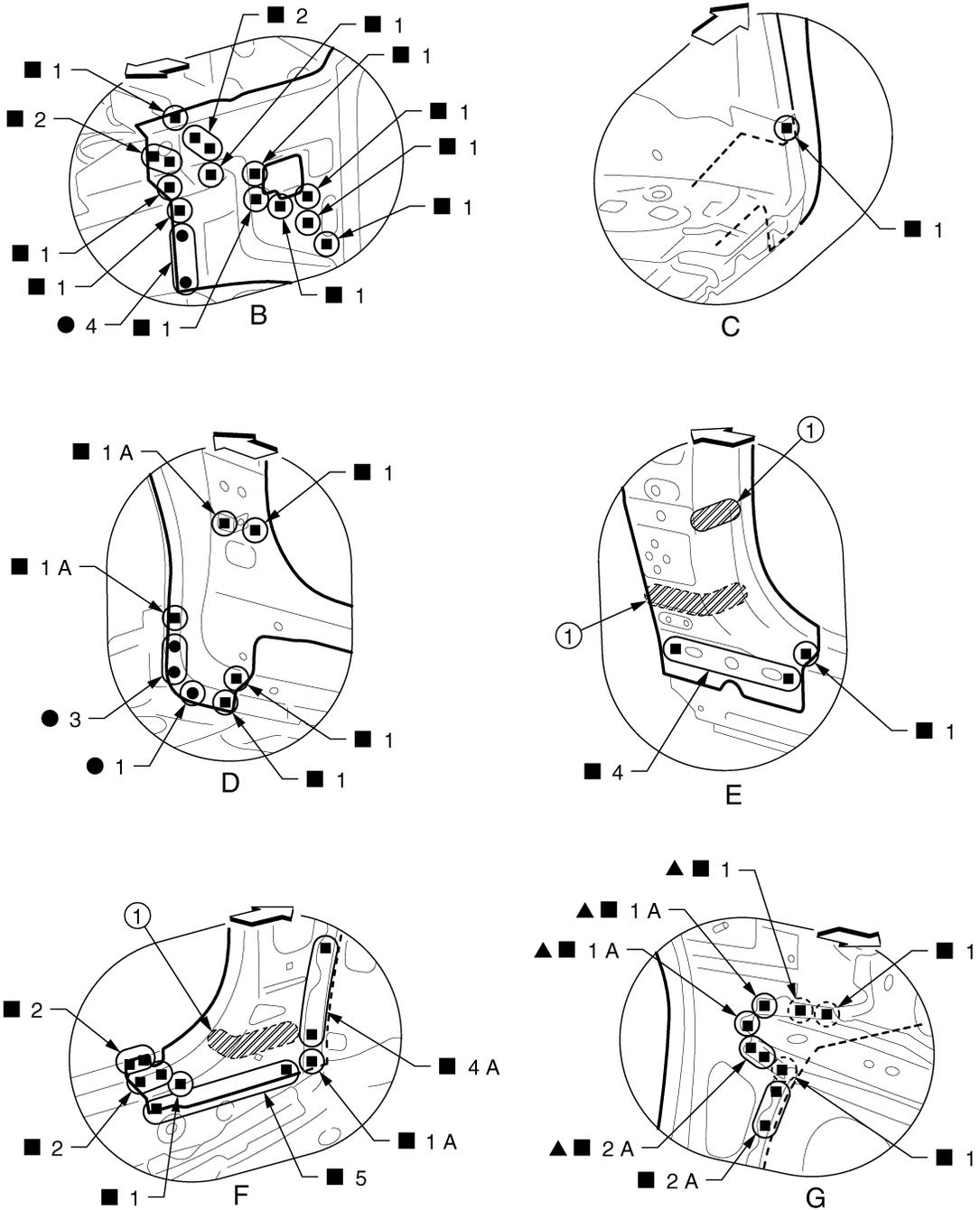
View A: Before installing outer front side body, front fender bracket assembly, and front pillar brace

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REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >



JSKIA2016ZZ

1. Urethane foam

←: Vehicle front

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

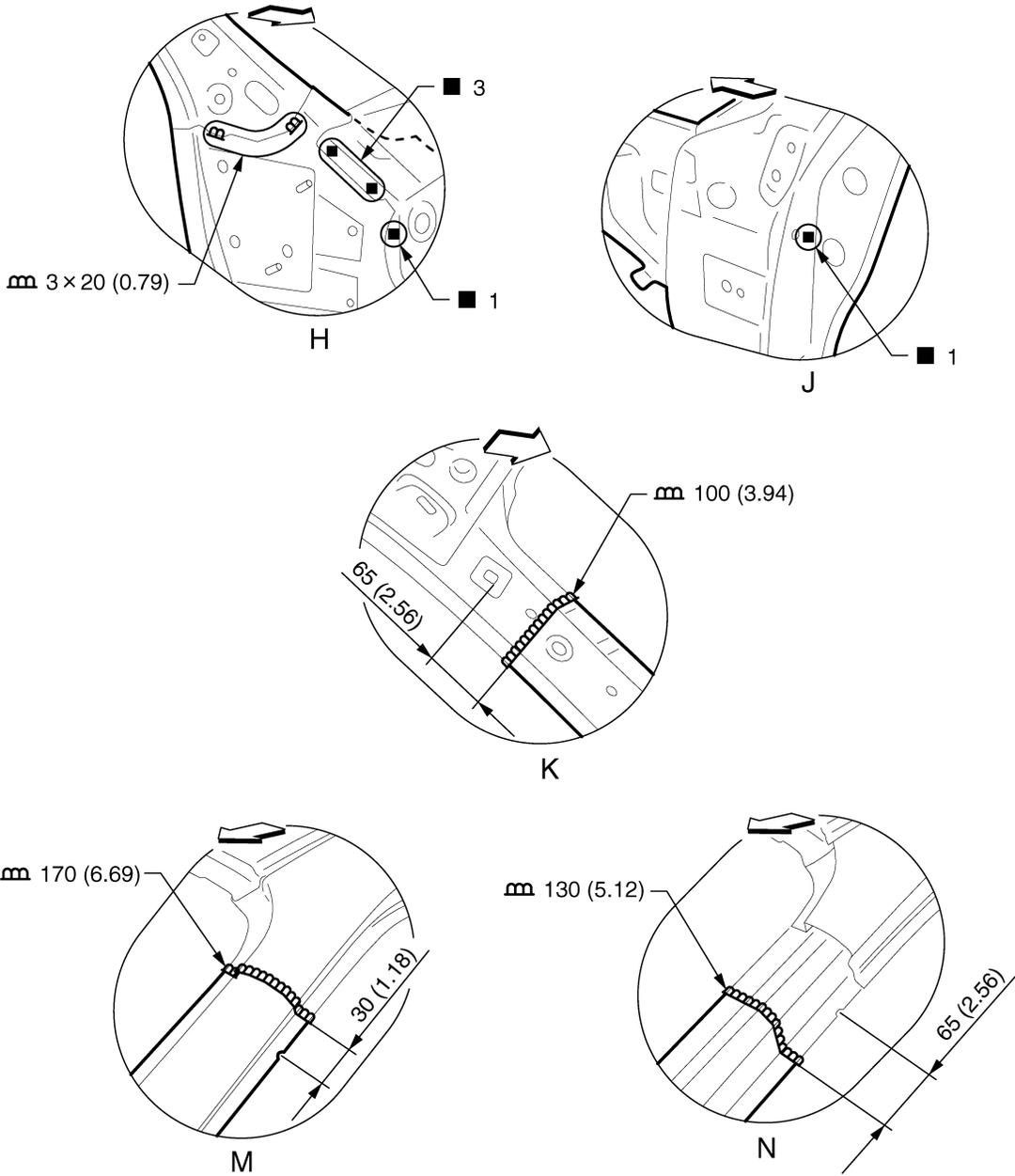
○: Weld the parts onto the back of the component part.

View E: Before installing outer front side body and front fender bracket assembly

View G: Before installing outer front side body, front fender bracket assembly, and front pillar brace

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >



Unit: mm (in)

↳: Vehicle front

View N: Before installing outer front side body

Front Pillar (LHD Models)

Work after hoodledge reinforcement is removed.

JSKIA2017GB

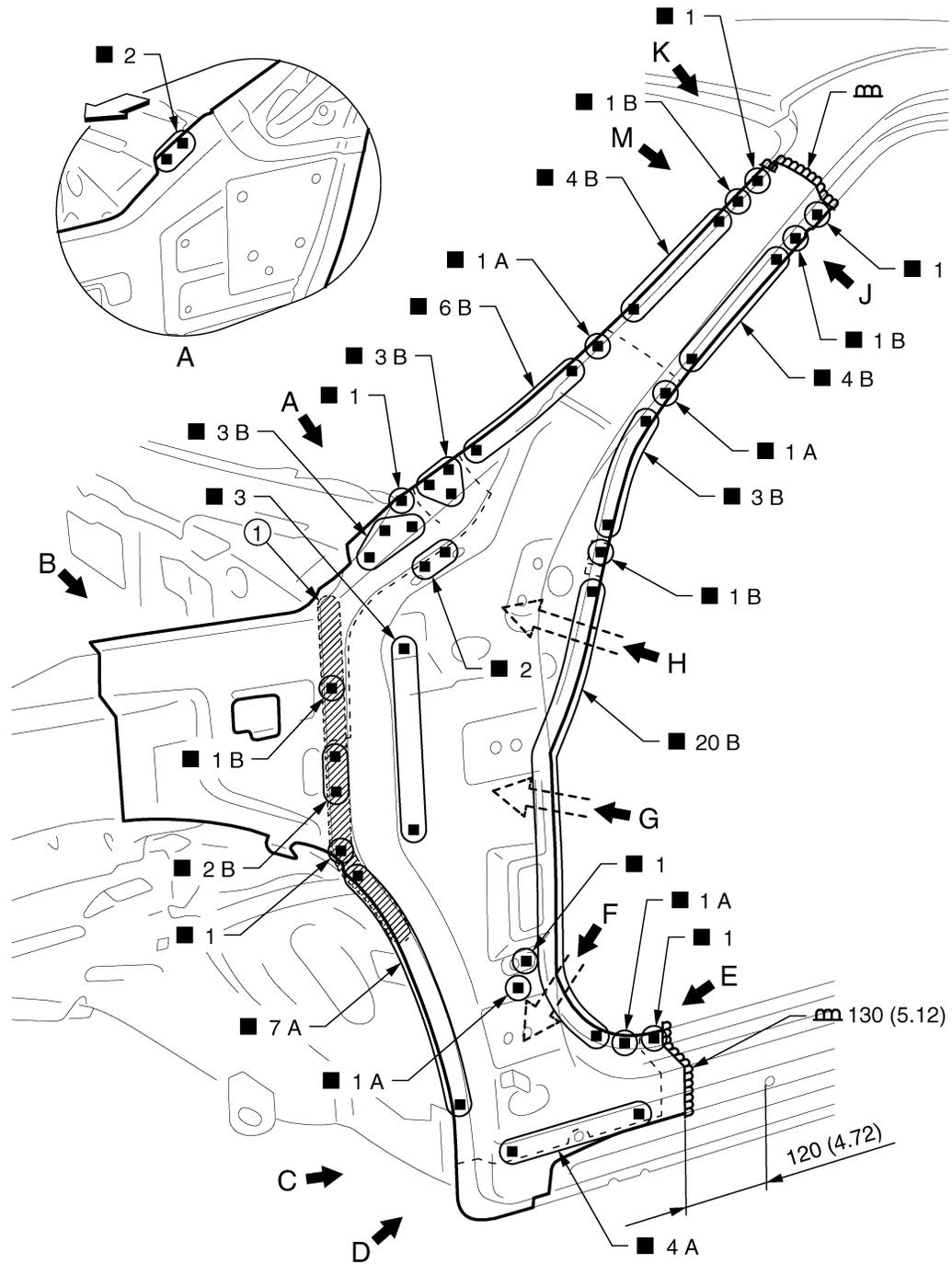
INFOID:000000006517508

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REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >



JSKIA2168GB

1. Body sealing

Unit: mm (in)

◀: Vehicle front

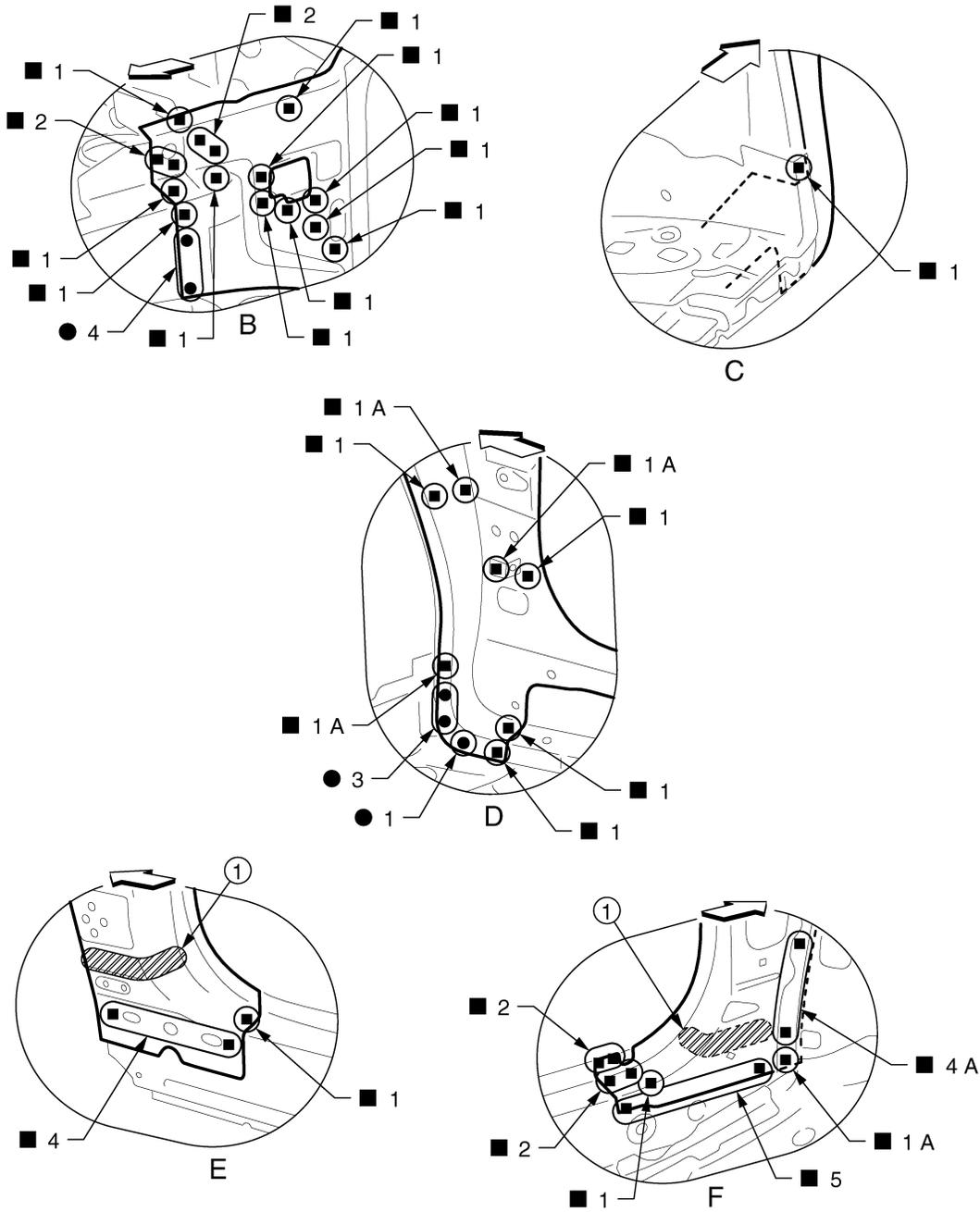
Replacement parts

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

View A: Before installing outer front side body, front fender bracket assembly, and front pillar brace

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >



1. Urethane foam

⇐: Vehicle front

View E: Before installing outer front side body and front fender bracket assembly

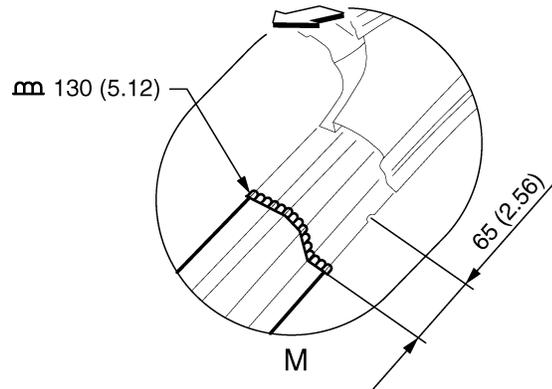
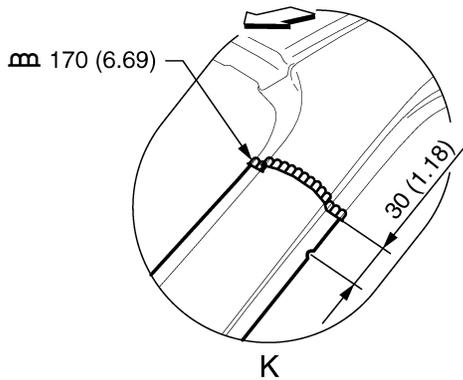
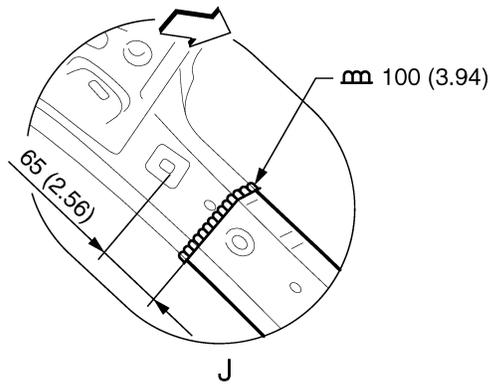
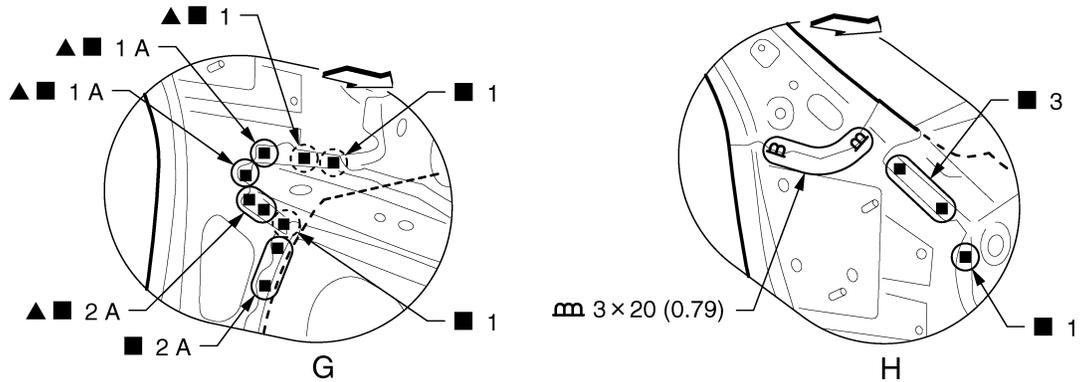
JSKIA2169ZZ

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REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >



JSKIA2170GB

Unit: mm (in)

↔: Vehicle front

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

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

View G: Before installing outer front side body, front fender bracket assembly, and front pillar brace

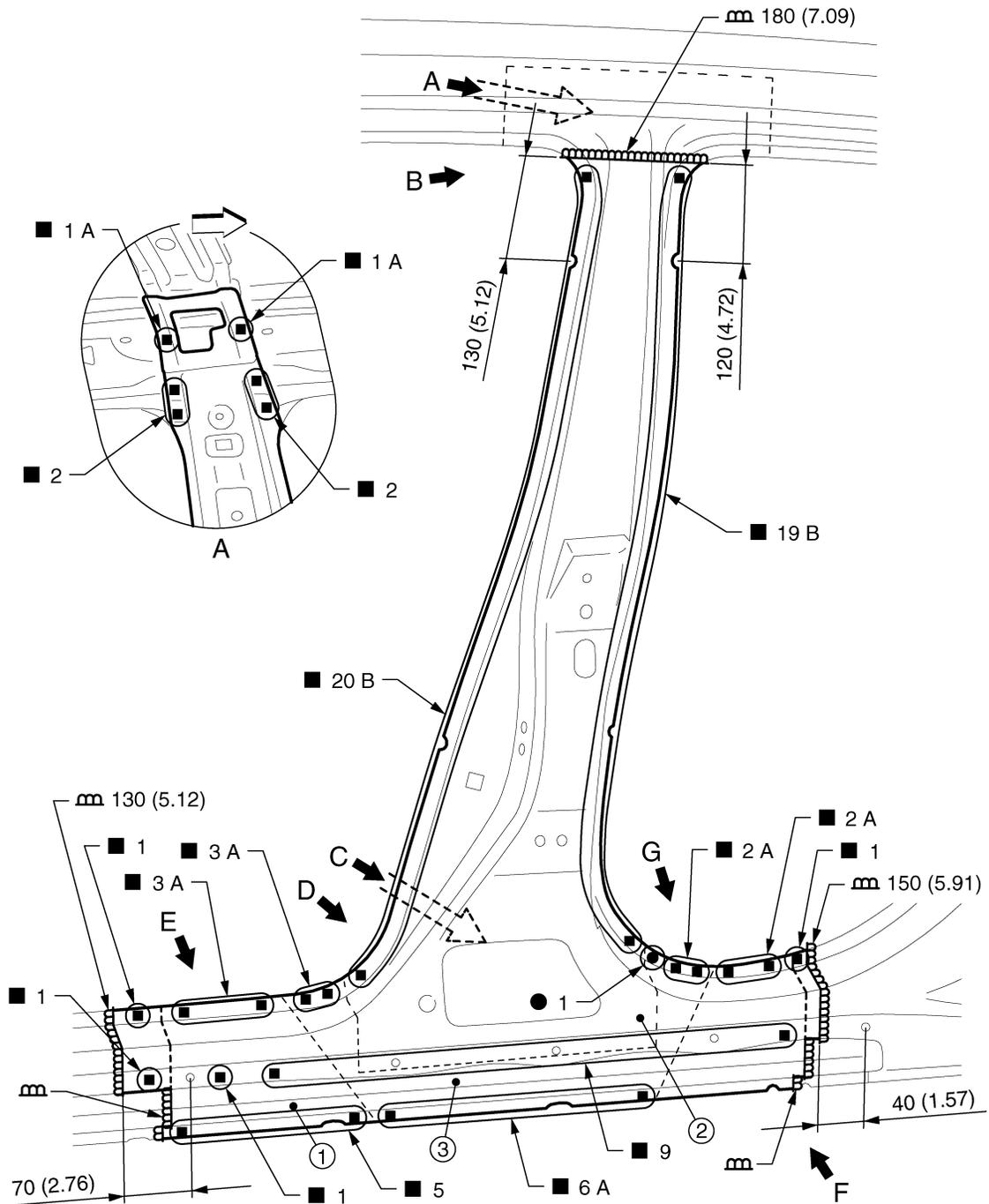
View M: Before installing outer front side body

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >

Center Pillar (2WD Models)

INFOID:000000006482835



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1. Outer sill reinforcement

2. Lower center pillar brace

3. Inner center pillar

Unit: mm (in)

↔: Vehicle front

Replacement parts

● Outer front side body (LH)

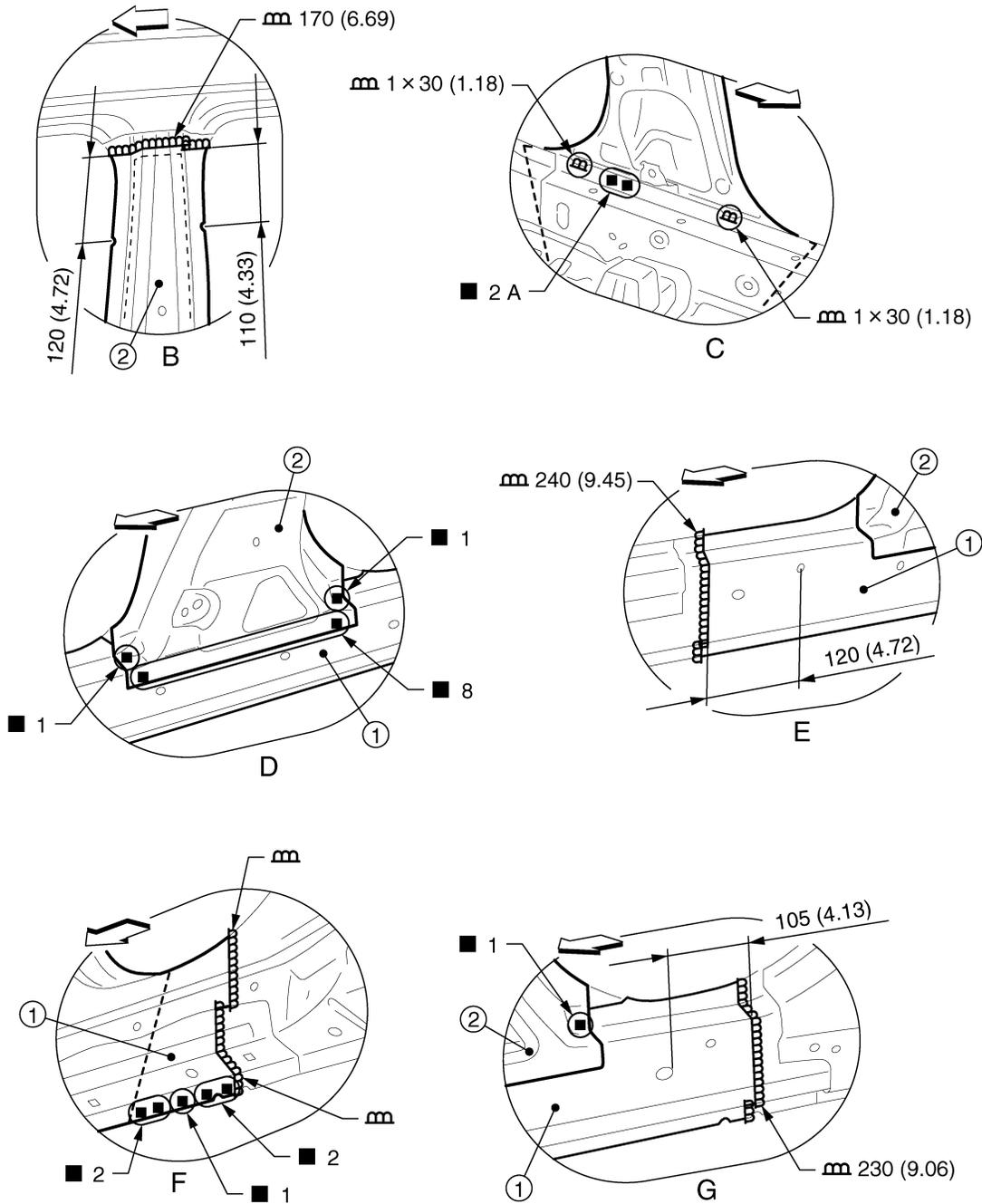
● Lower center pillar brace (LH)

● Inner center pillar (LH)

JSKIA2171GB

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >



JSKIA2172GB

- 1. Outer sill reinforcement
- 2. Lower center pillar brace

Unit: mm (in)

↔: Vehicle front

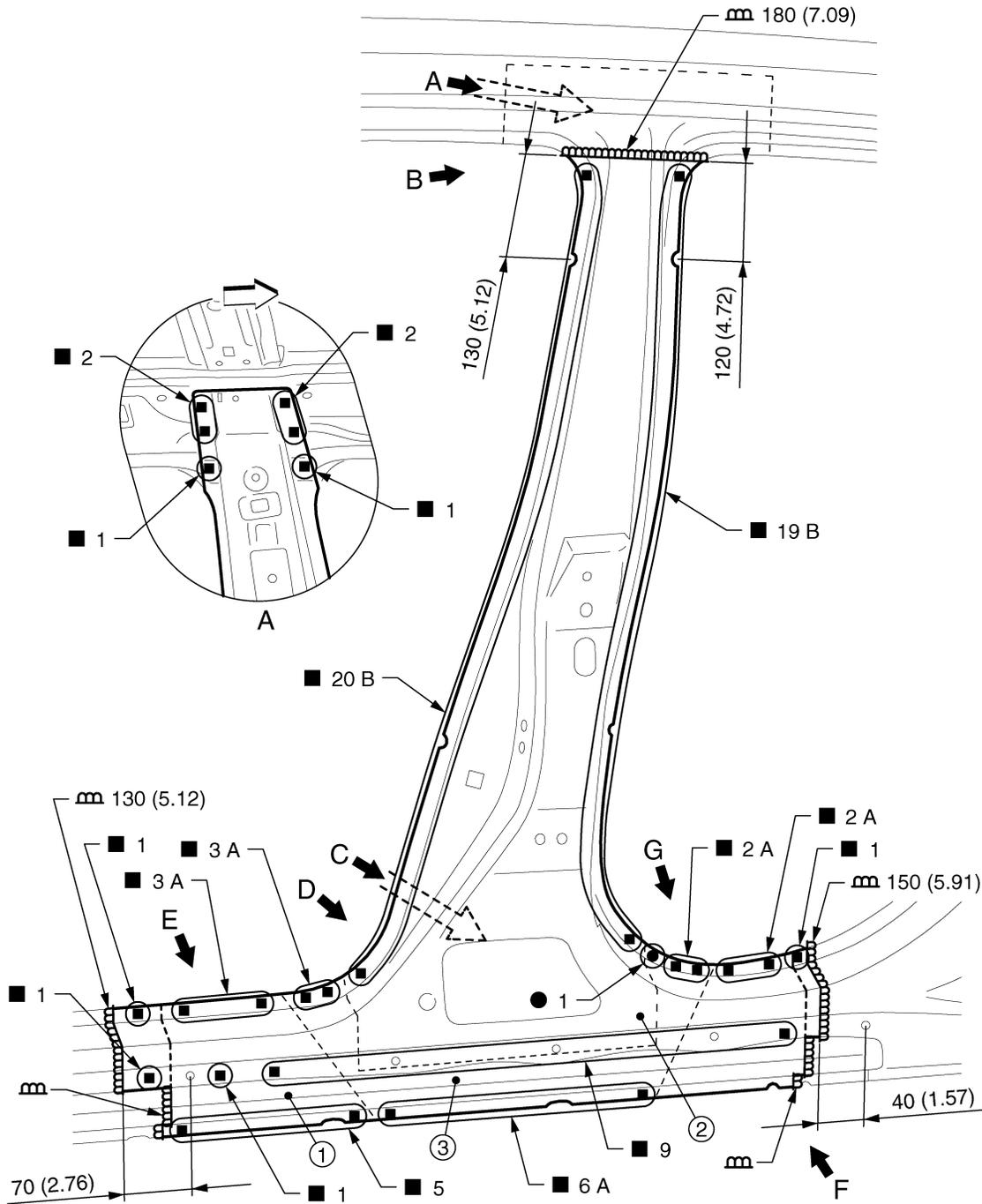
View B, D, E, and G: Before installing outer front side body

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >

Center Pillar (4WD Models)

INFOID:000000006517509



JSKIA2018GB

1. Outer sill reinforcement

2. Lower center pillar brace

3. Inner center pillar

Unit: mm (in)

← Vehicle front

Replacement parts

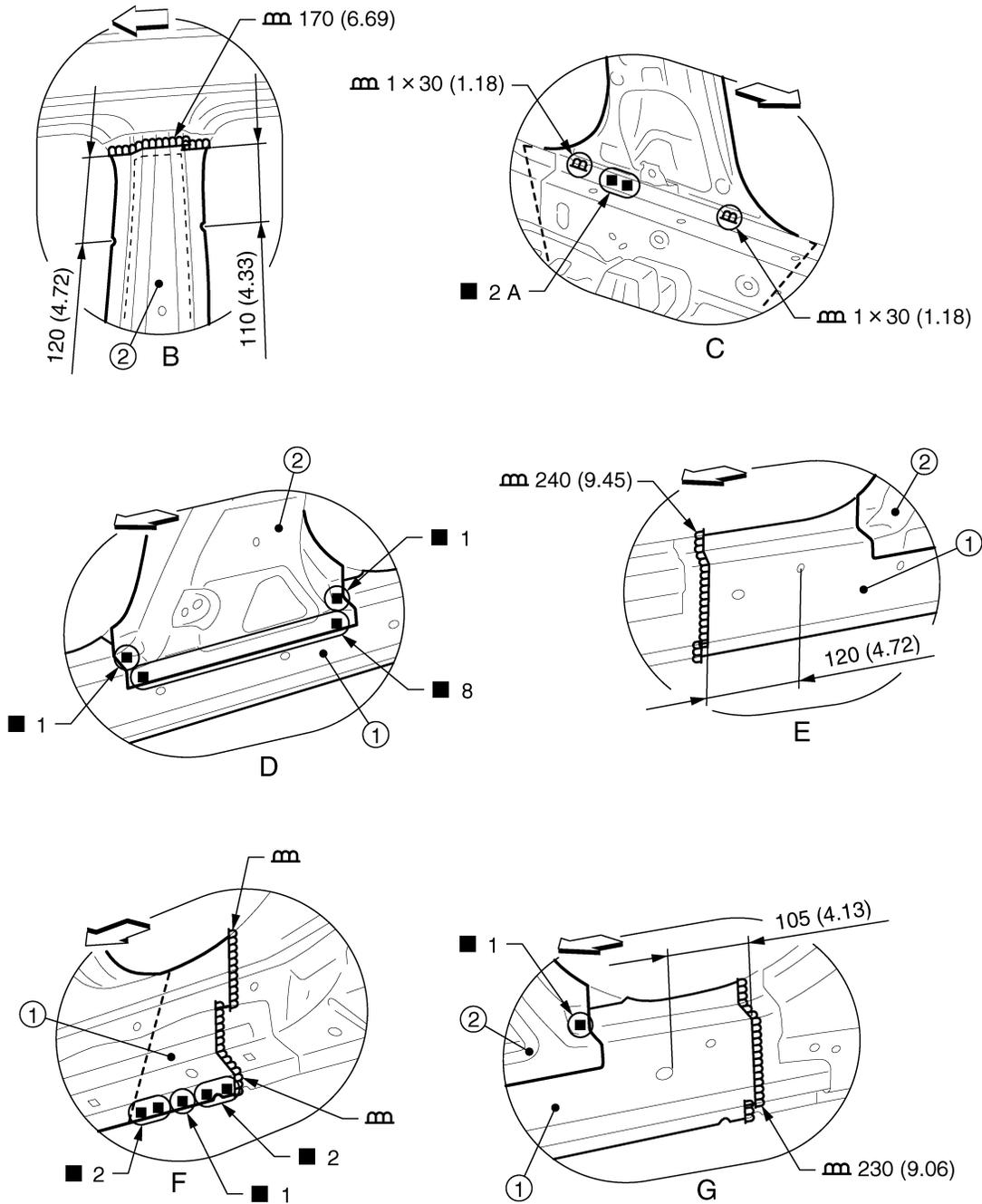
● Outer front side body (LH)

● Lower center pillar brace (LH)

● Inner center pillar (LH)

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >



JSKIA2172GB

- 1. Outer sill reinforcement
- 2. Lower center pillar brace

Unit: mm (in)

↔: Vehicle front

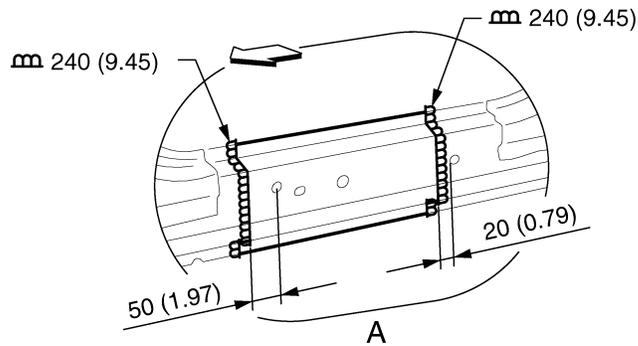
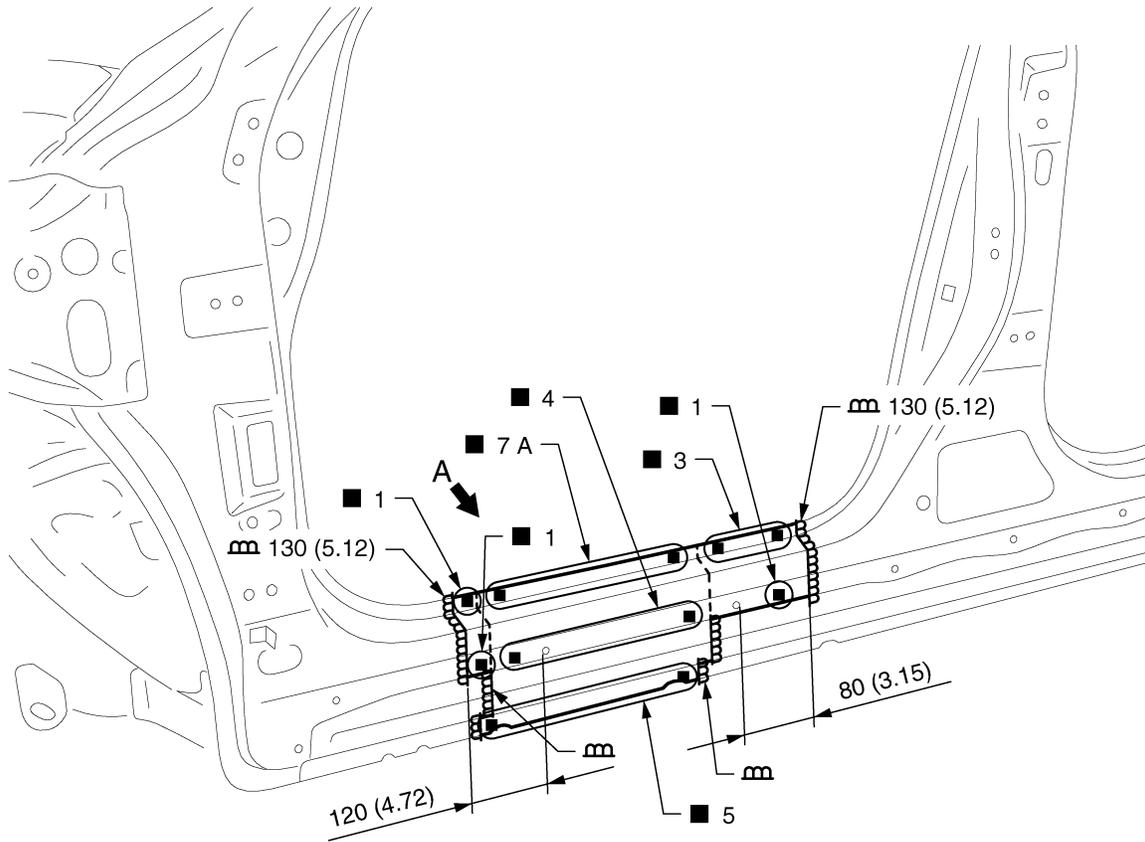
View B, D, E, and G: Before installing outer front side body

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >

Outer Sill (Partial Replacement)

INFOID:000000006482838



Unit: mm (in)

↔: Vehicle front

Replacement parts

● Outer sill (LH)

● Outer sill reinforcement (LH)

View A: Before installing outer sill

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BRM

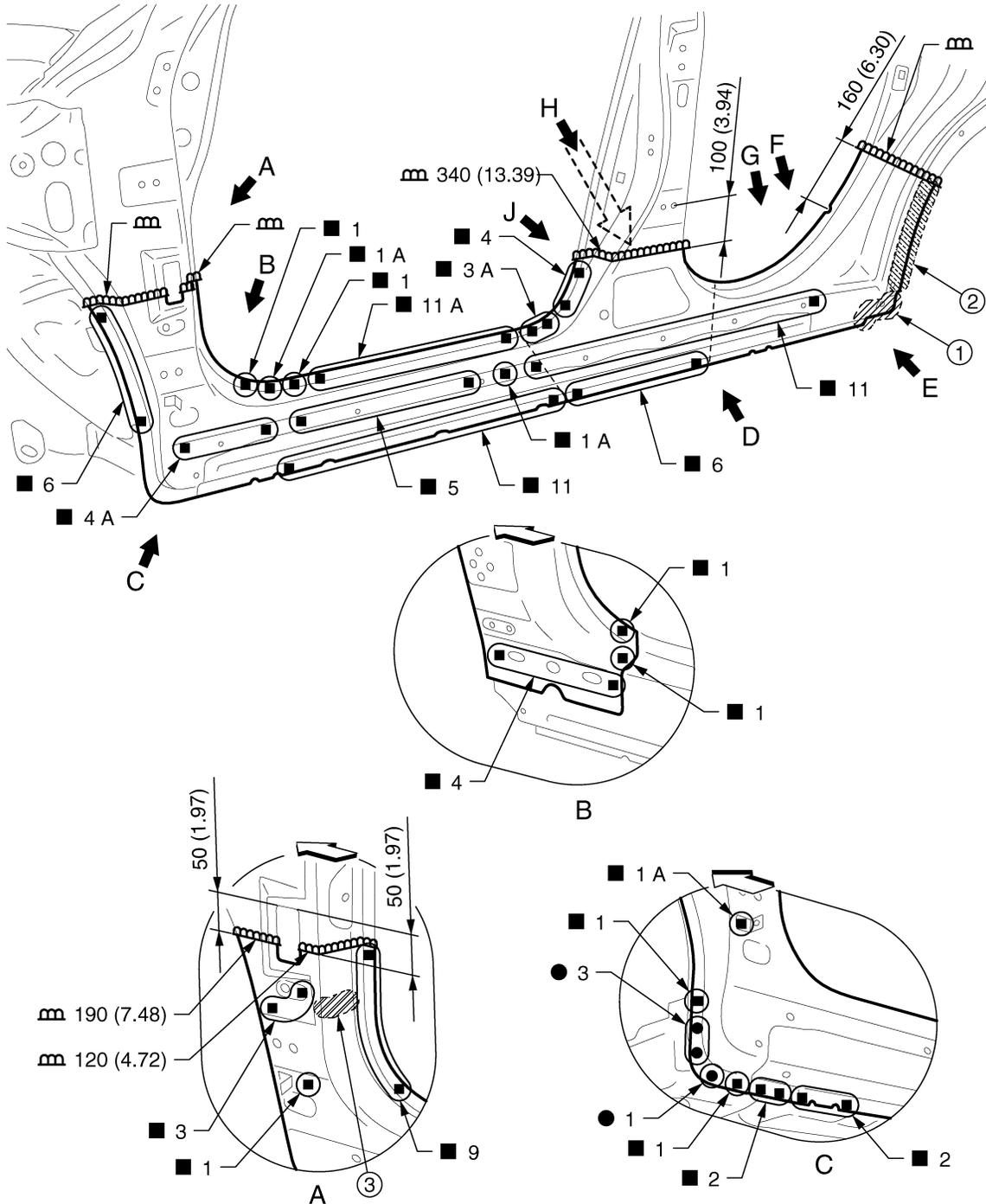
JSKIA2020GB

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >

Outer Sill (RHD Models)

INFOID:00000006527930



JSKIA2173GB

1. Body sealing

2. Adhesive

3. Urethane foam

Unit: mm (in)

◁: Vehicle front

Replacement parts

● Outer sill (LH)

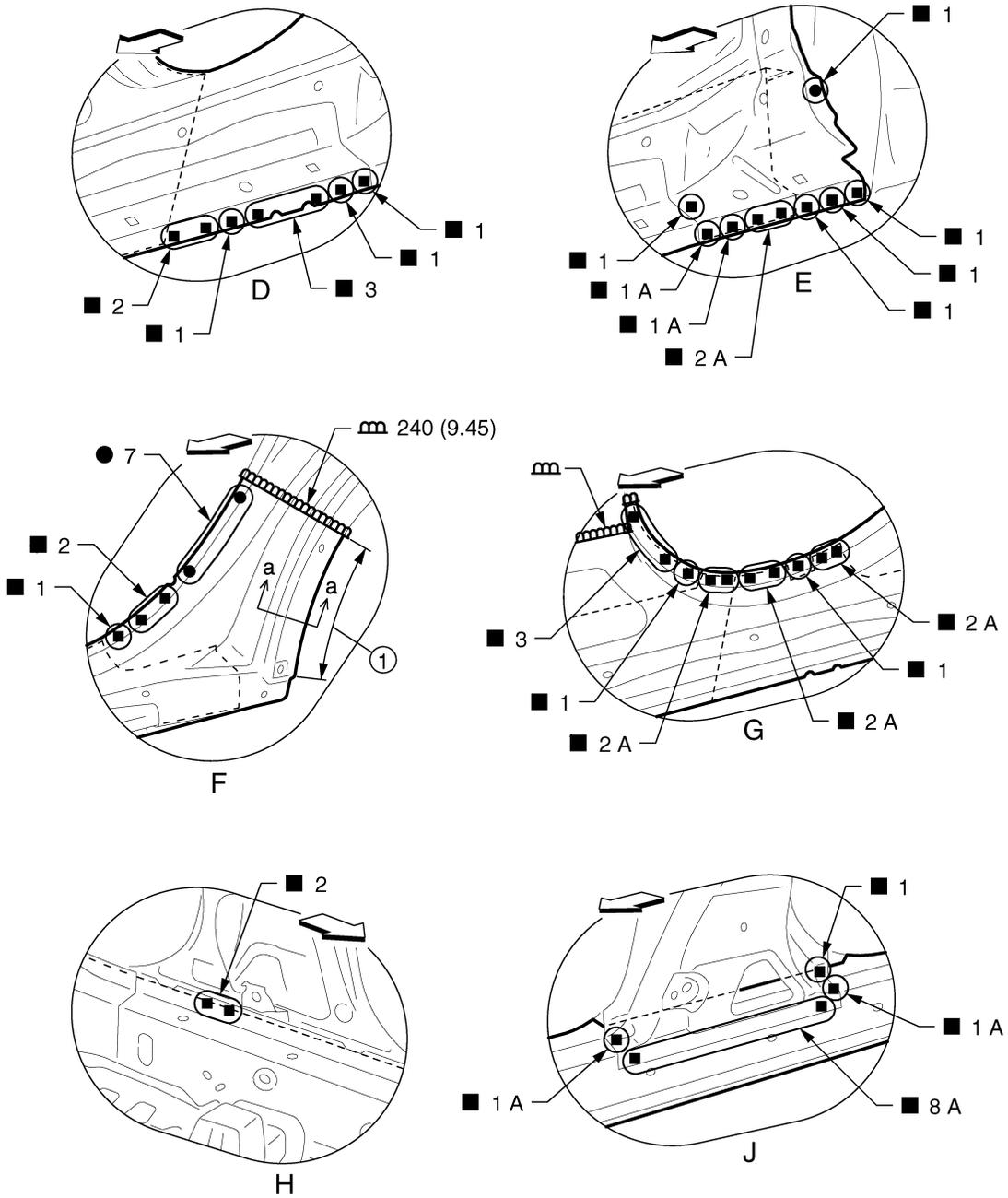
● Outer sill reinforcement (LH)

● Front fender bracket assembly (LH)

View B: Before installing outer sill

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >



1. Hemming portion

Unit: mm (in)

◀: Vehicle front

View J: Before installing outer sill

POINT

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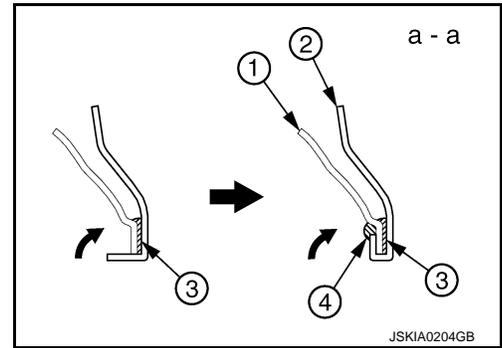
JSKIA2174GB

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >

- Perform the hemming to the flange of wheelarch after applying the adhesive.
- Apply the sealing to the flange end.
- Refer to [BRM-40. "Rear Fender Hemming Process"](#).

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

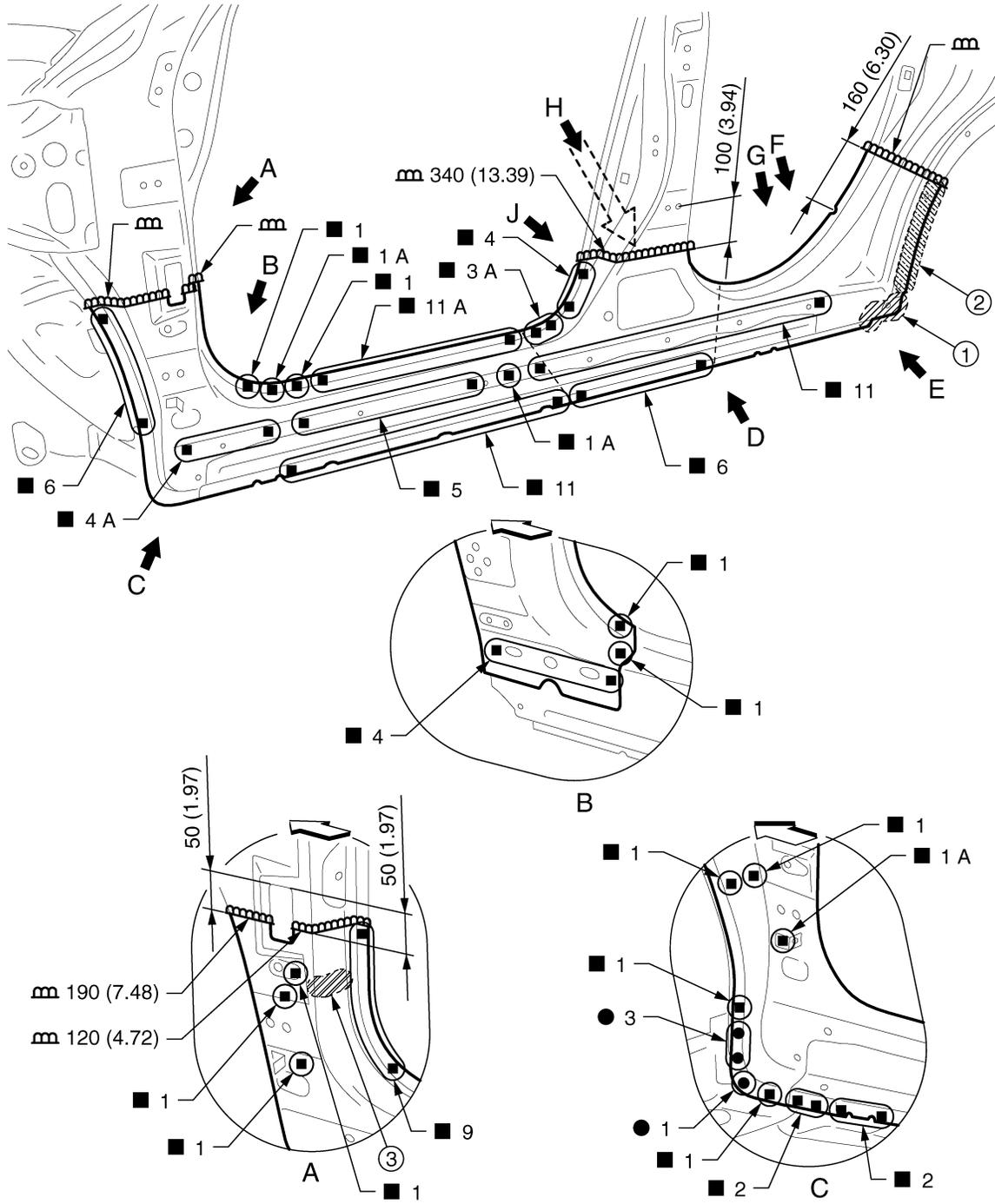


REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >

Outer Sill (LHD Models)

INFOID:000000006527931



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1. Body sealing

2. Adhesive

3. Urethane foam

Unit: mm (in)

← Vehicle front

Replacement parts

● Outer sill (LH)

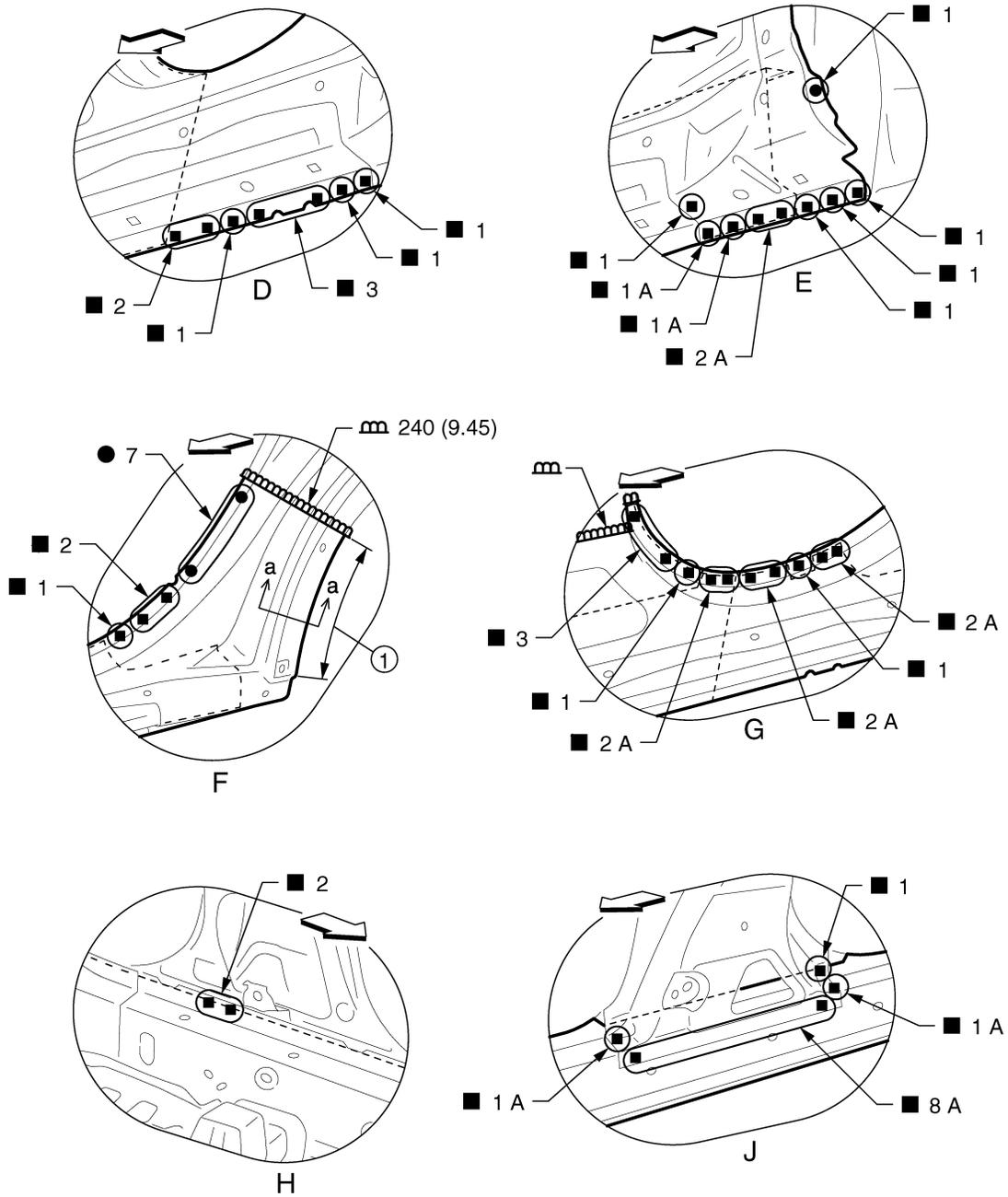
● Outer sill reinforcement (LH)

● Front fender bracket assembly (LH)

View B: Before installing outer sill

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >



JSKIA2174GB

1. Hemming portion

Unit: mm (in)

↔: Vehicle front

View J: Before installing outer sill

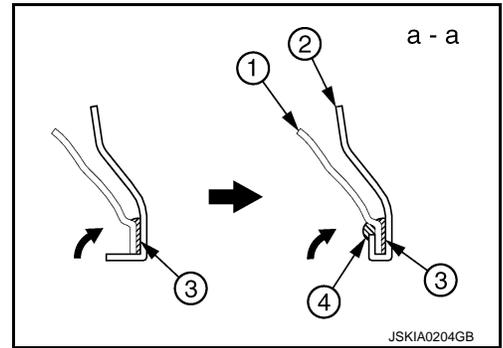
POINT

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >

- Perform the hemming to the flange of wheelarch after applying the adhesive.
- Apply the sealing to the flange end.
- Refer to [BRM-40. "Rear Fender Hemming Process"](#).

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



Inner Sill

Work after outer sill is removed.
Remove the lower front pillar hinge brace (reusable).

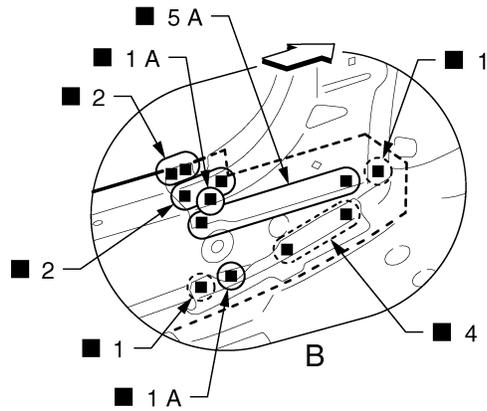
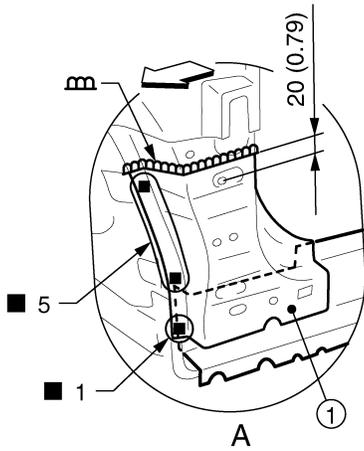
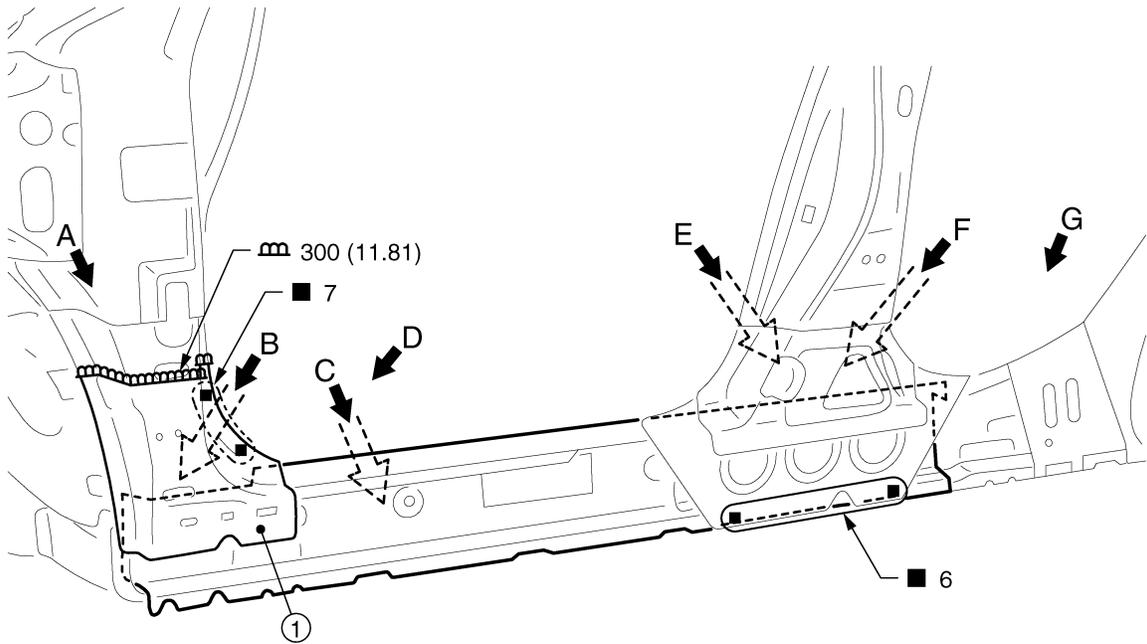
INFOID:000000006482843

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REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >



JSKIA2176GB

1. Lower front pillar hinge brace

Unit: mm (in)

◀: Vehicle front

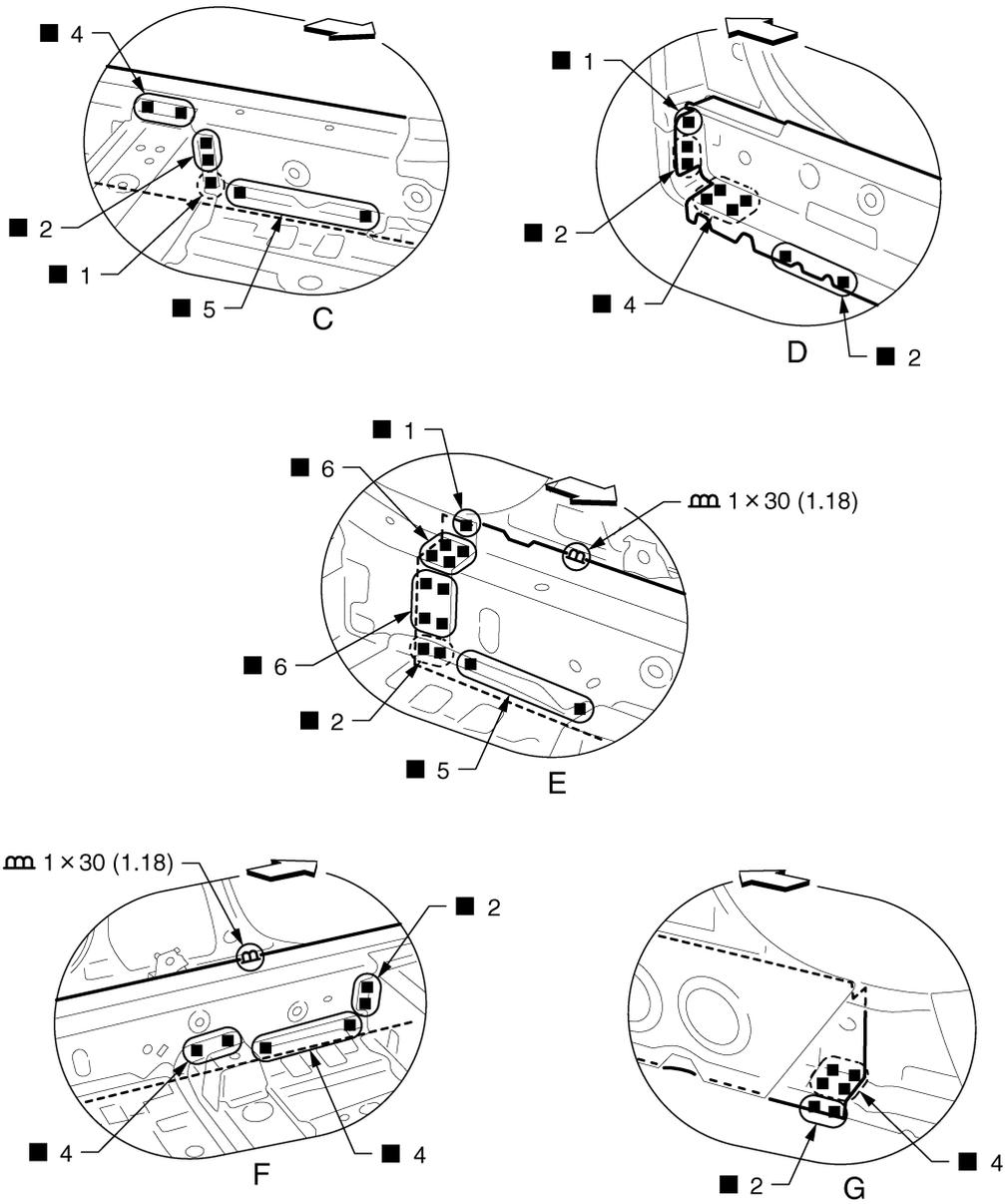
○: Weld the parts onto the back of the component part.

Replacement parts

- Inner sill (LH)

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >



JSKIA2177GB

Unit: mm (in)

←: Vehicle front

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

View D: Before installing lower front pillar hinge brace

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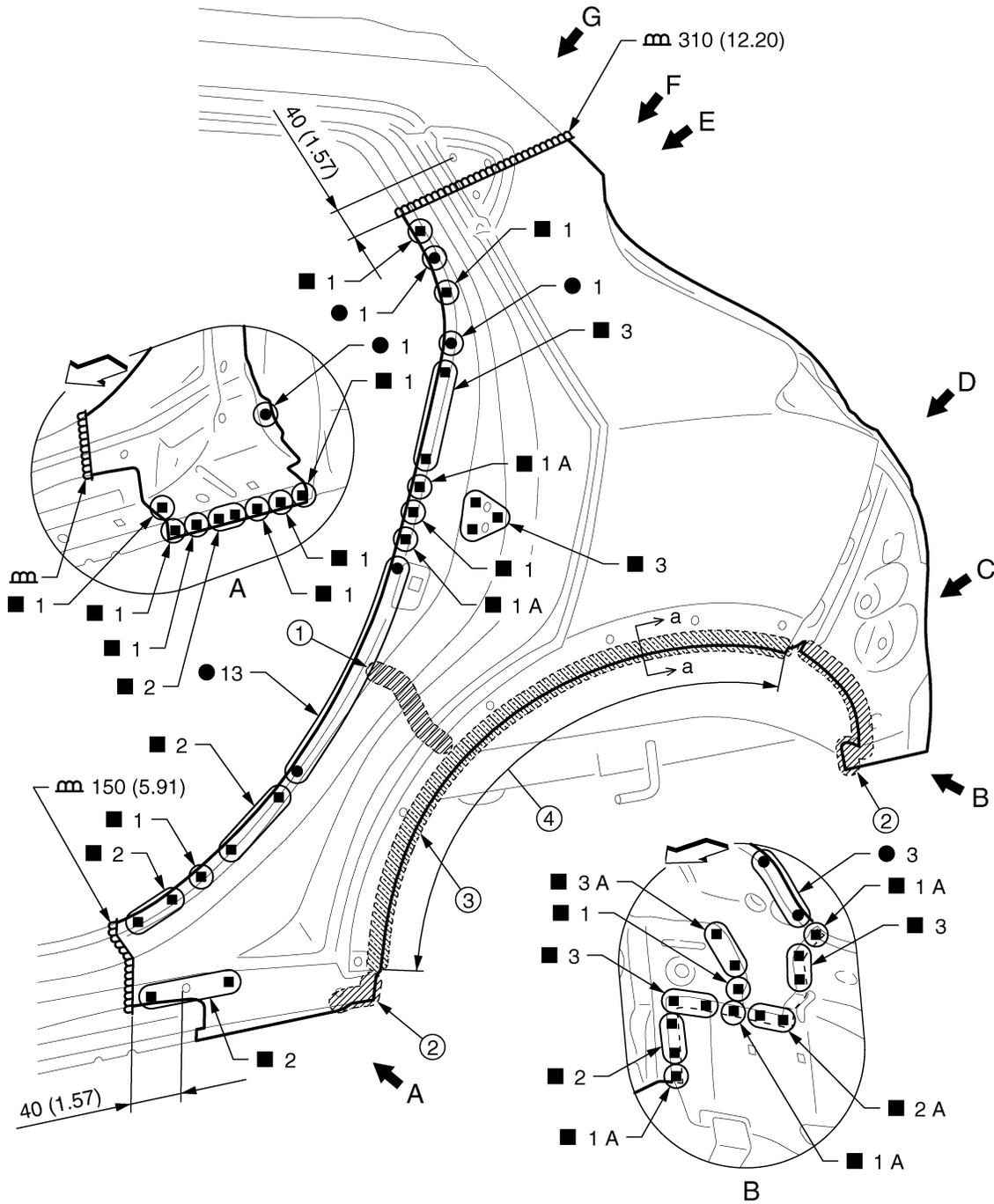
BRM

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >

Rear Fender (2WD Models)

INFOID:00000006527932



JSKIA2206GB

- 1. Urethane foam
- 4. Hemming portion

- 2. Body sealing

- 3. Adhesive

Unit: mm (in)

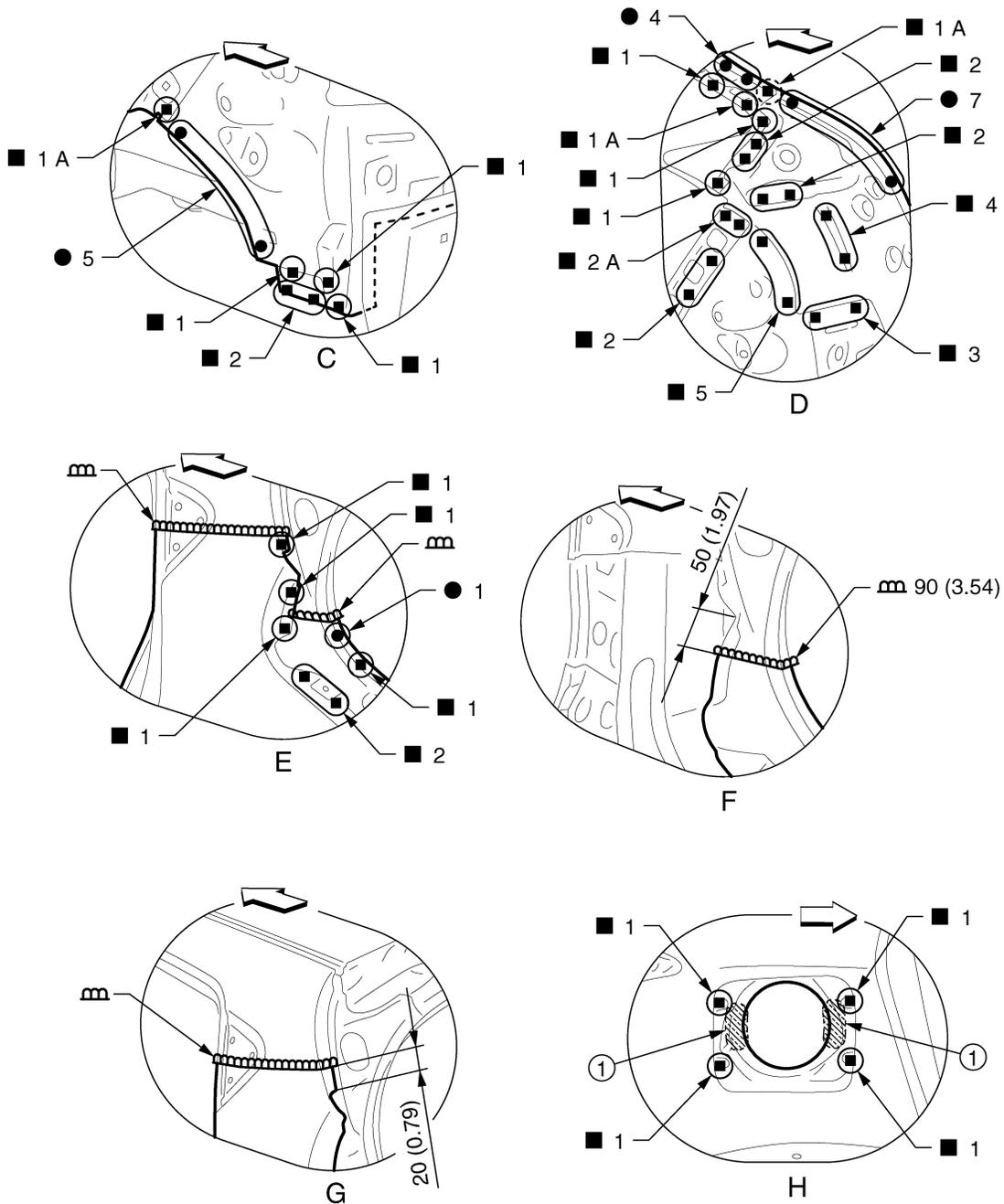
←: Vehicle front

Replacement parts

- Rear fender (LH)
- Striker retainer
- Rear fender extension (LH)
- Fuel filler base (Right side rear fender)
- Rear fender corner (LH)

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >



1. Adhesive

Unit: mm (in)

←: Vehicle front

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

View F: Before installing rear fender

View H: Right side rear fender

POINT

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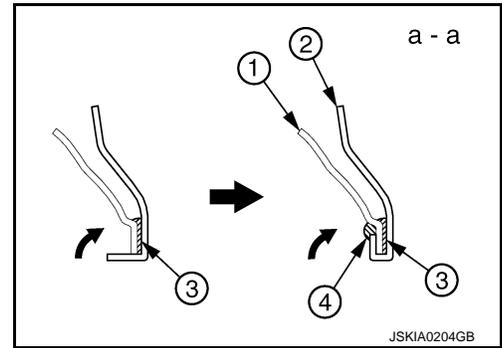
JSKIA2207GB

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >

- Perform the hemming to the flange of wheelarch after applying the adhesive.
- Apply the sealing to the flange end.
- Refer to [BRM-40. "Rear Fender Hemming Process"](#).

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

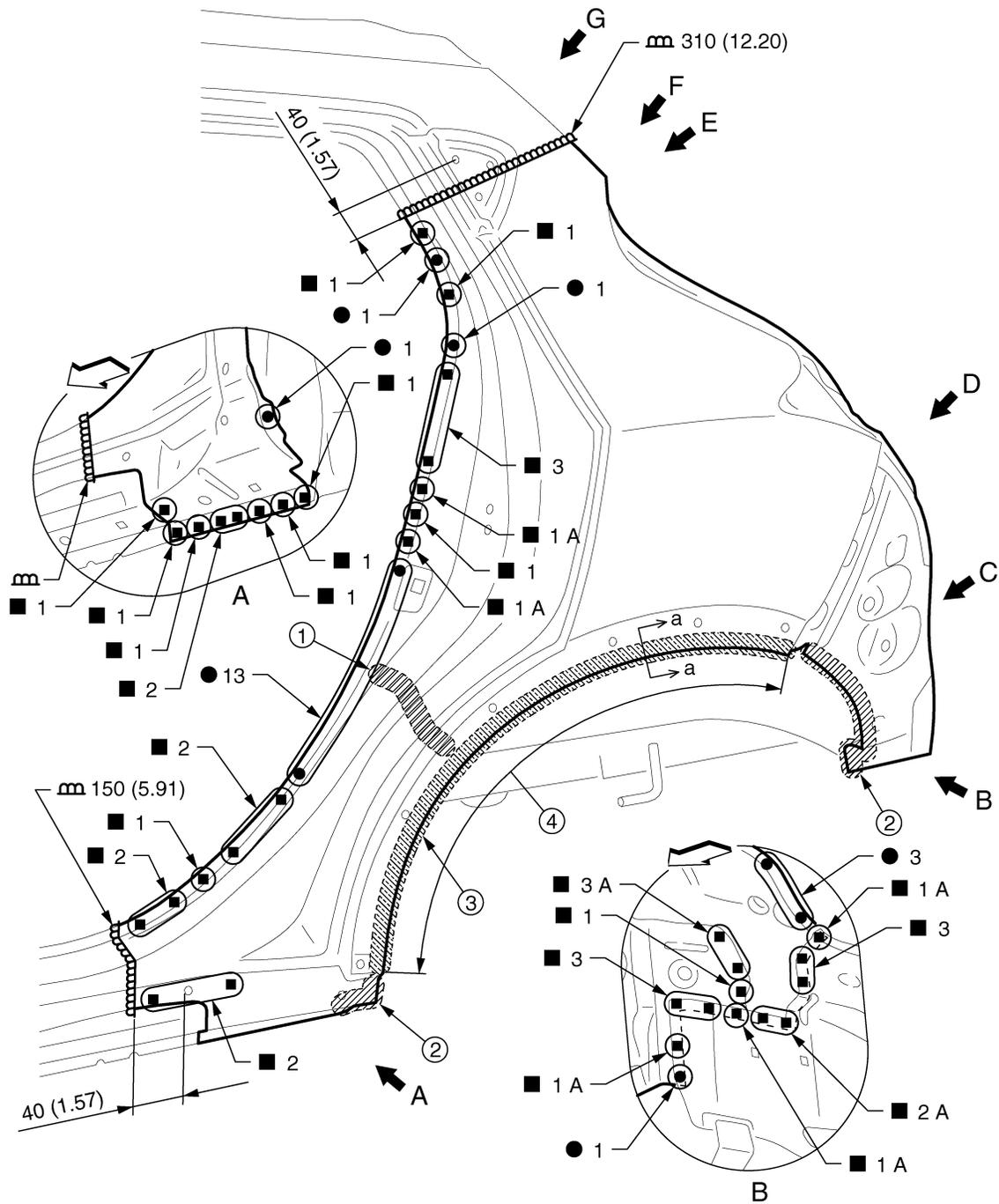


REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >

Rear Fender (4WD Models)

INFOID:000000006527933



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- 1. Urethane foam
- 4. Hemming portion

- 2. Body sealing

- 3. Adhesive

Unit: mm (in)

← Vehicle front

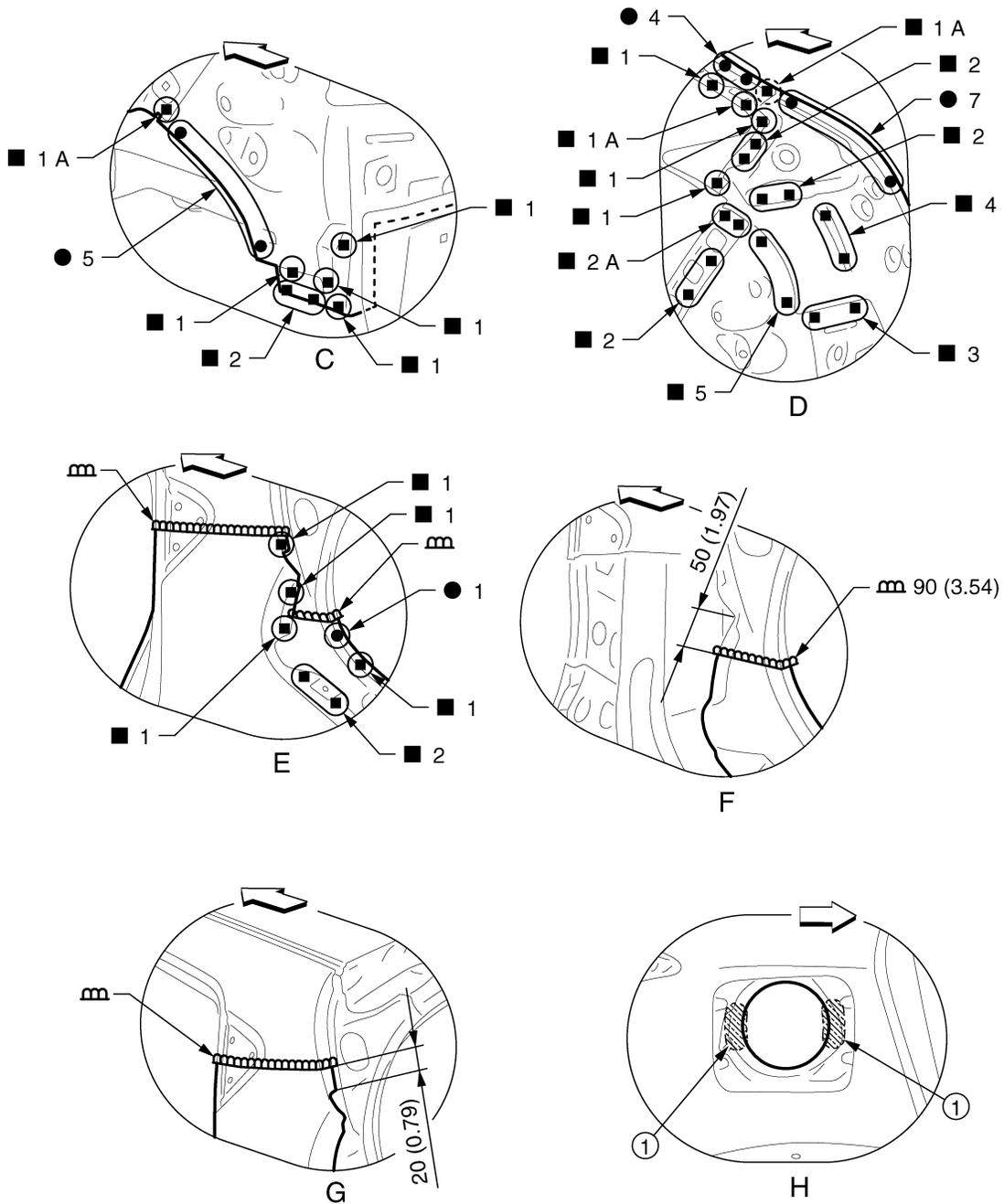
Replacement parts

- Rear fender (LH)
- Rear fender extension (LH)
- Rear fender corner (LH)

JSKIA2178GB

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >



JSKIA2179GB

1. Adhesive

Unit: mm (in)

←: Vehicle front

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

View F: Before installing rear fender

View H: Right side rear fender

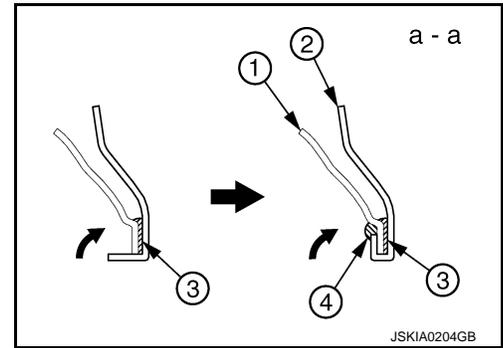
POINT

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >

- Perform the hemming to the flange of wheelarch after applying the adhesive.
- Apply the sealing to the flange end.
- Refer to [BRM-40. "Rear Fender Hemming Process"](#).

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



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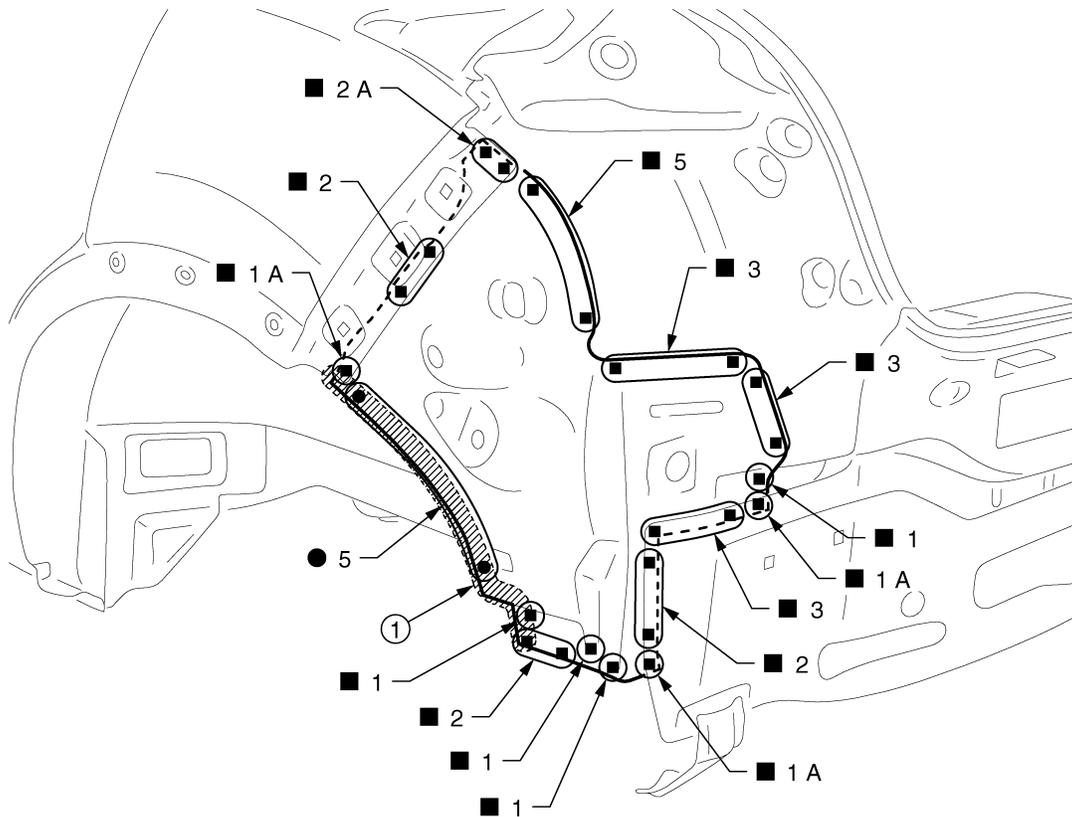
BRM

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >

Rear Fender Extension (2WD Models)

INFOID:00000006517610



JSKIA2025ZZ

1. Body sealing

Replacement parts

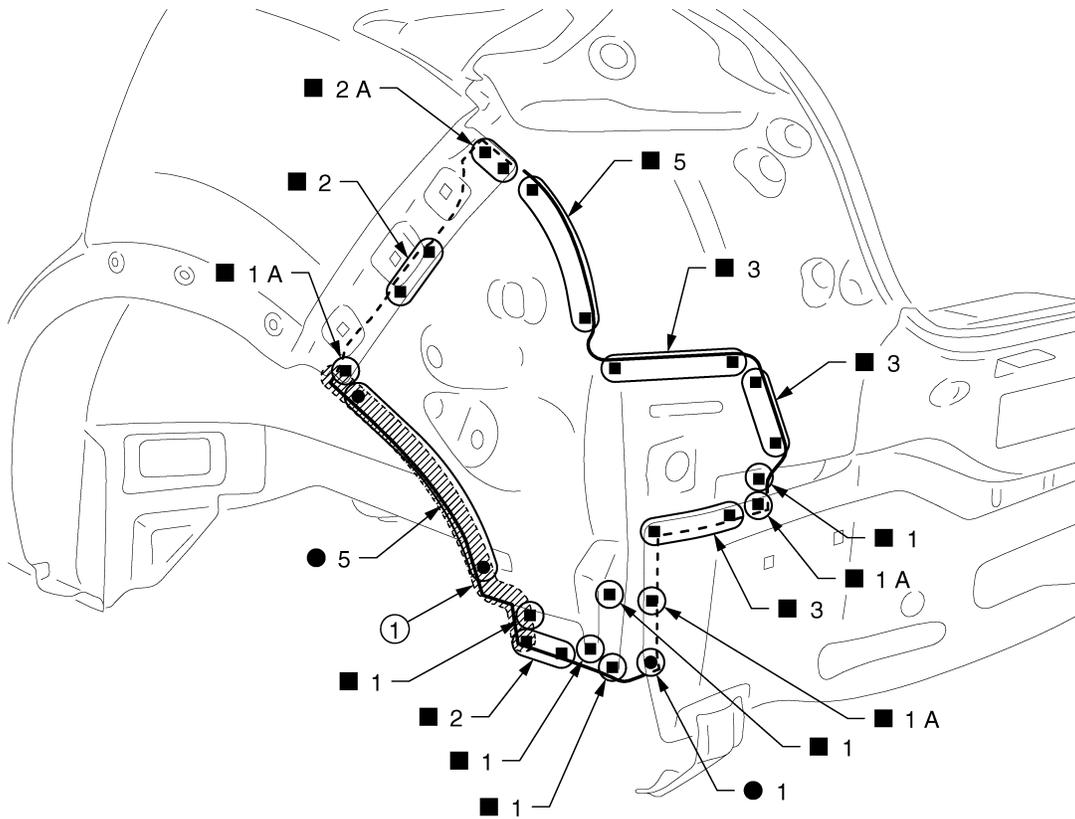
- Rear fender corner (LH)

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >

Rear Fender Extension (4WD Models)

INFOID:000000006517607



1. Body sealing

Replacement parts

- Rear fender corner (LH)

Rear Pillar Reinforcement

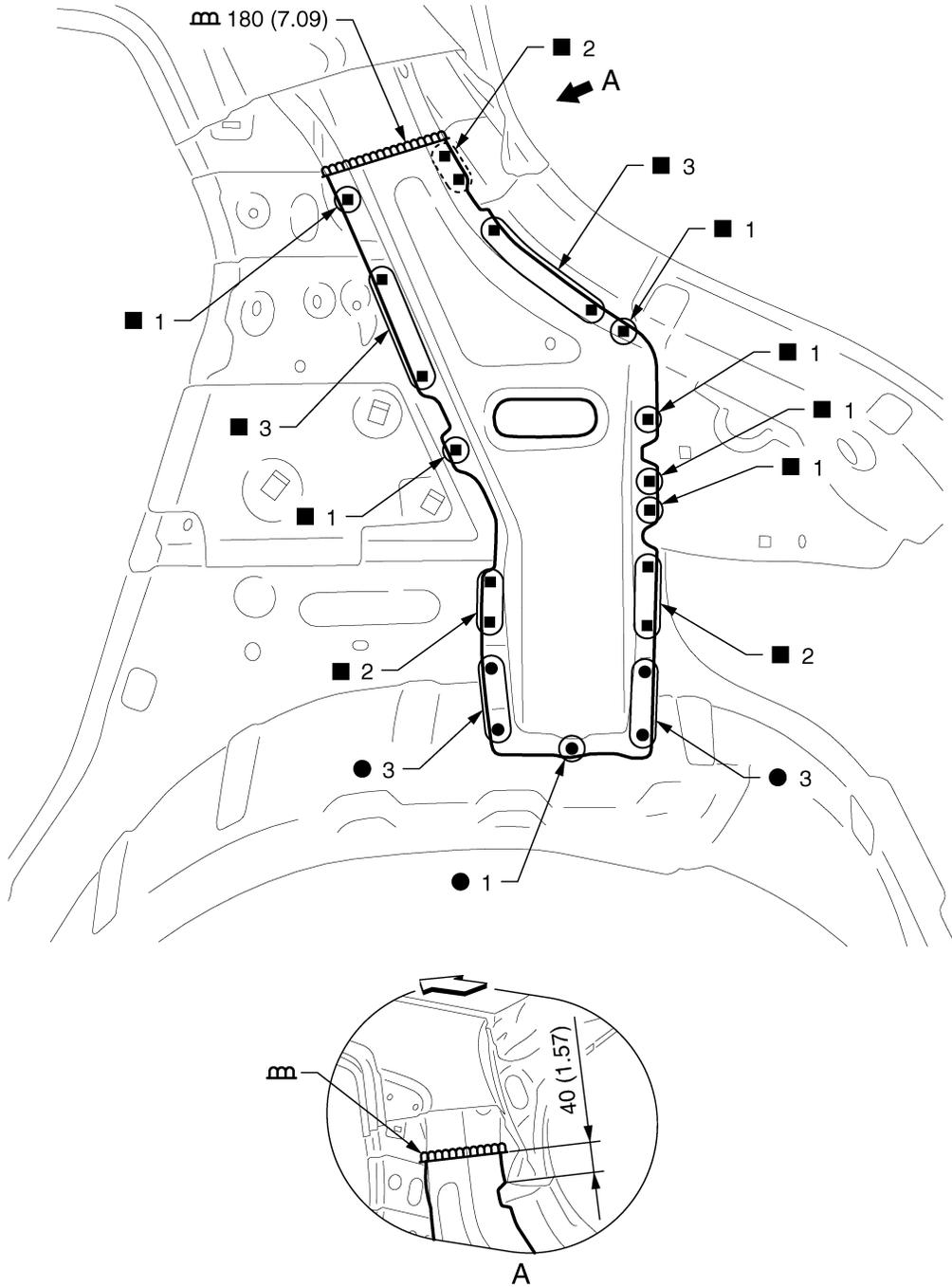
Work after rear fender is removed.

JSKIA2180ZZ

INFOID:000000006518633

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >



JSKIA2181GB

Unit: mm (in)

⇐: Vehicle front

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

Replacement parts

- Inner rear pillar reinforcement (LH)

Outer Rear Wheelhouse (2WD Models)

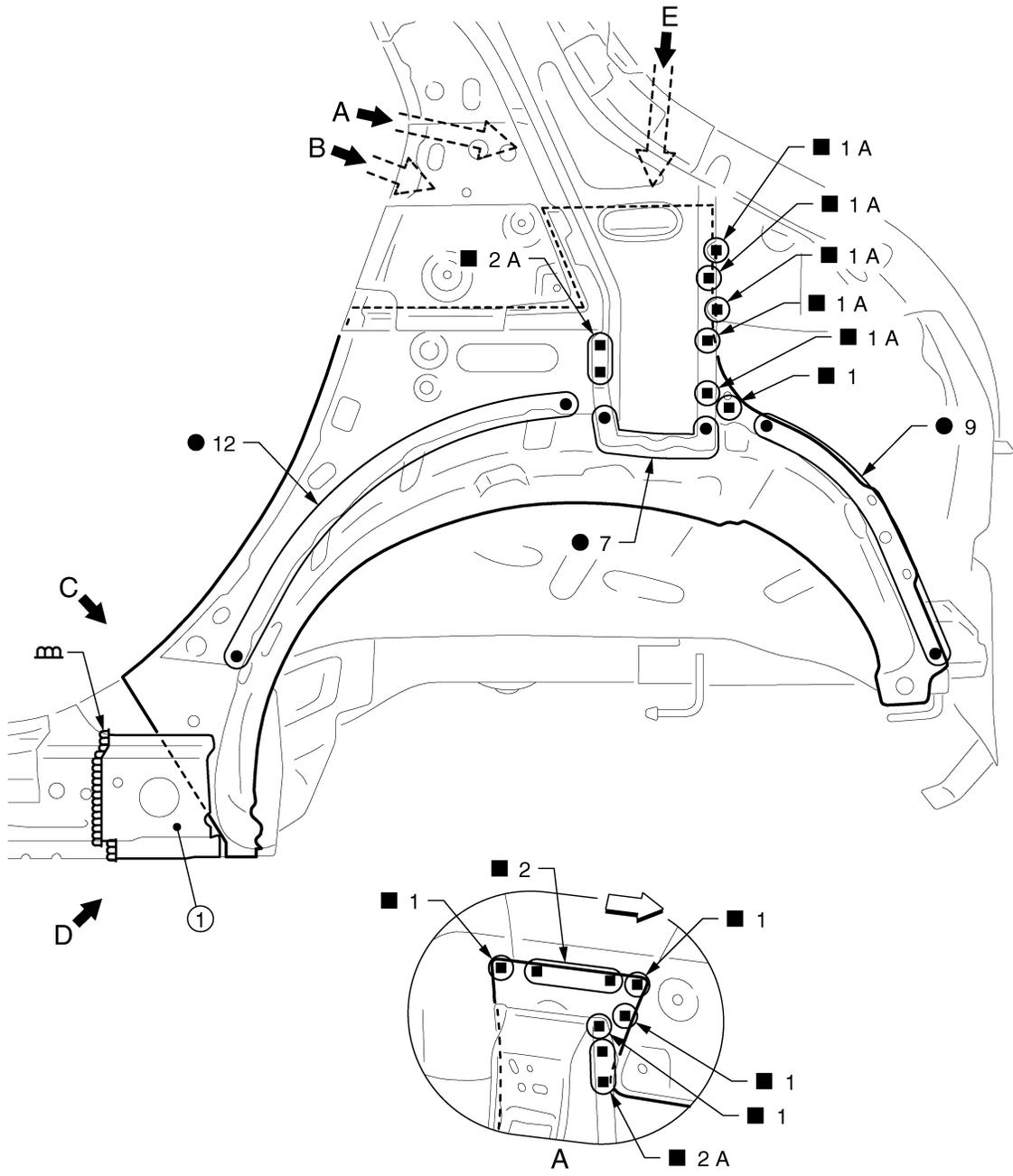
INFOID:000000006482852

Work after rear fender is removed.

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

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >



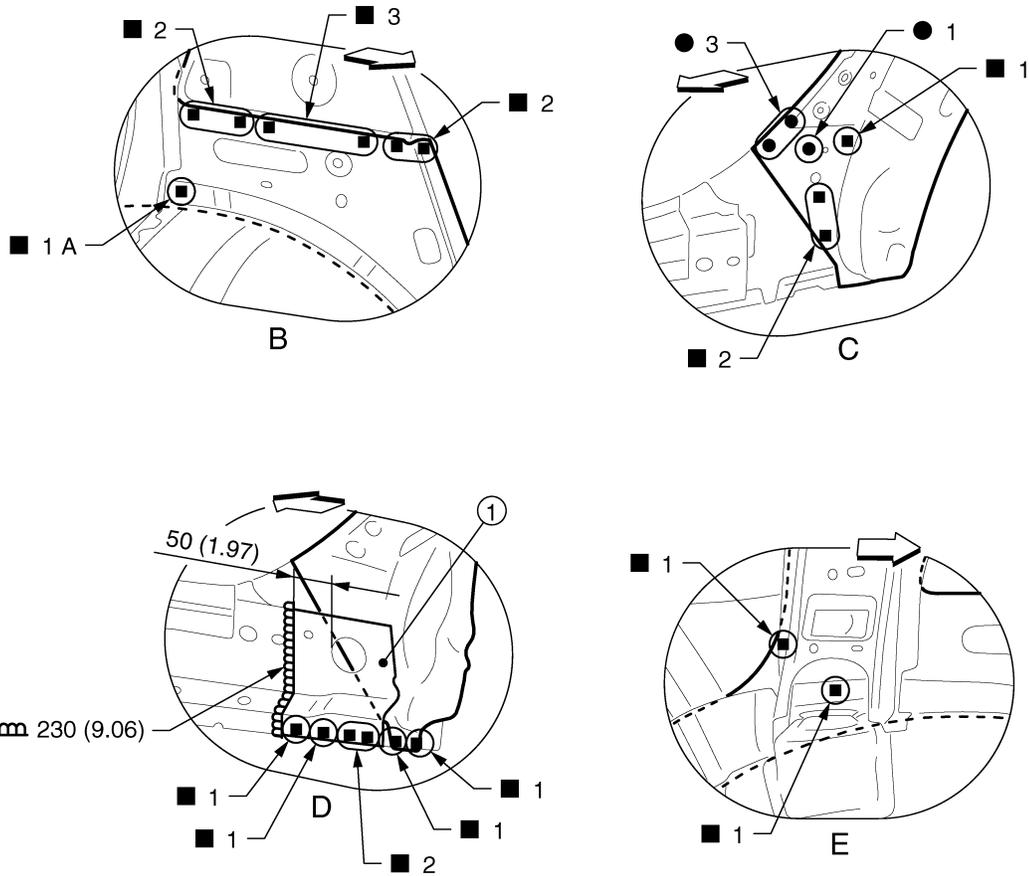
- 1. Outer sill reinforcement
- ⇐: Vehicle front
- Replacement parts
- Outer rear wheelhouse (LH)

JSKIA2026ZZ

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REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >



JSKIA2027GB

1. Outer sill reinforcement

Unit: mm (in)

↔: Vehicle front

View C: Before installing outer sill reinforcement

Outer Rear Wheelhouse (4WD Models)

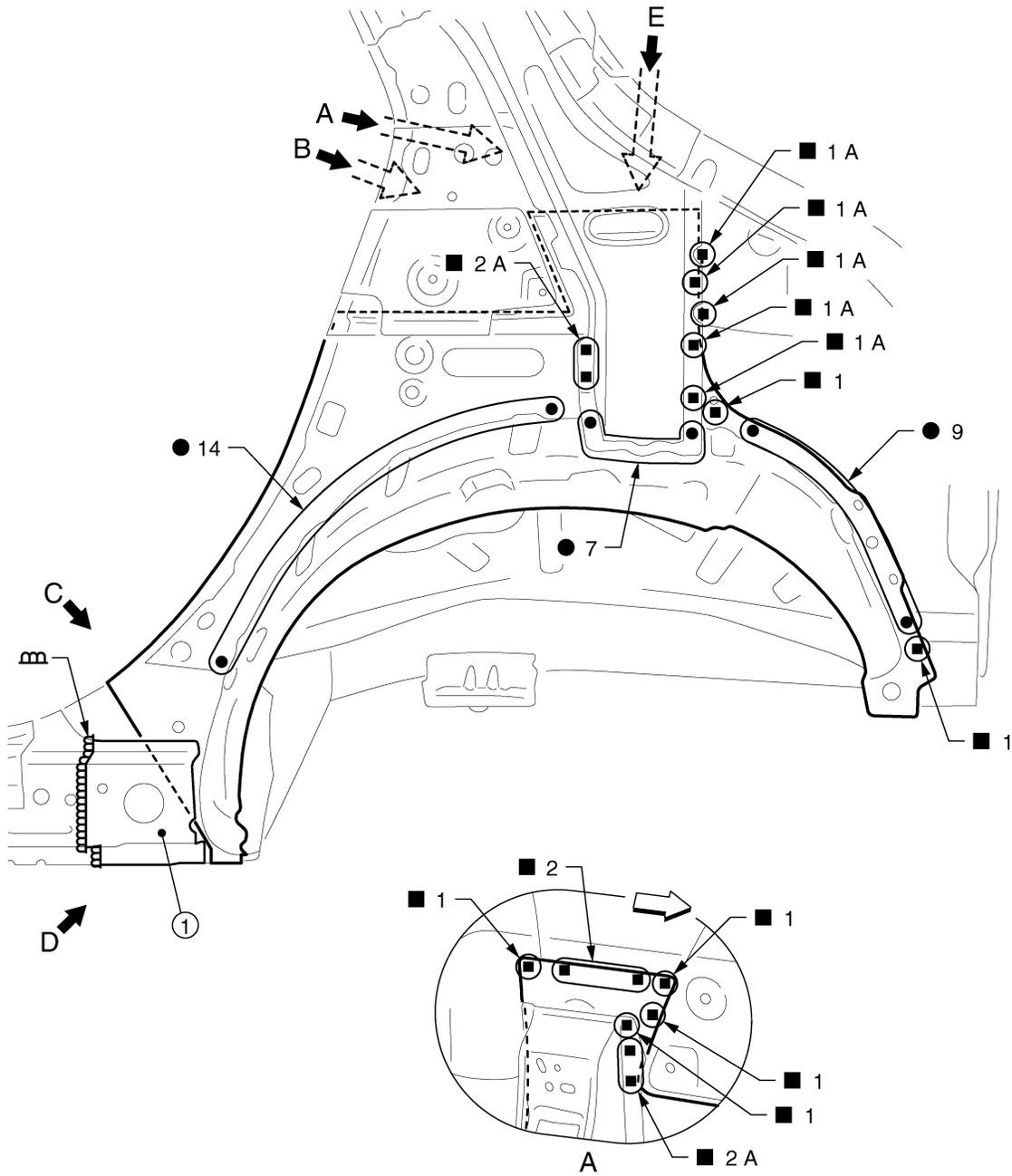
INFOID:000000006482853

Work after rear fender is removed.

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

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >



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1. Outer sill reinforcement

⇐: Vehicle front

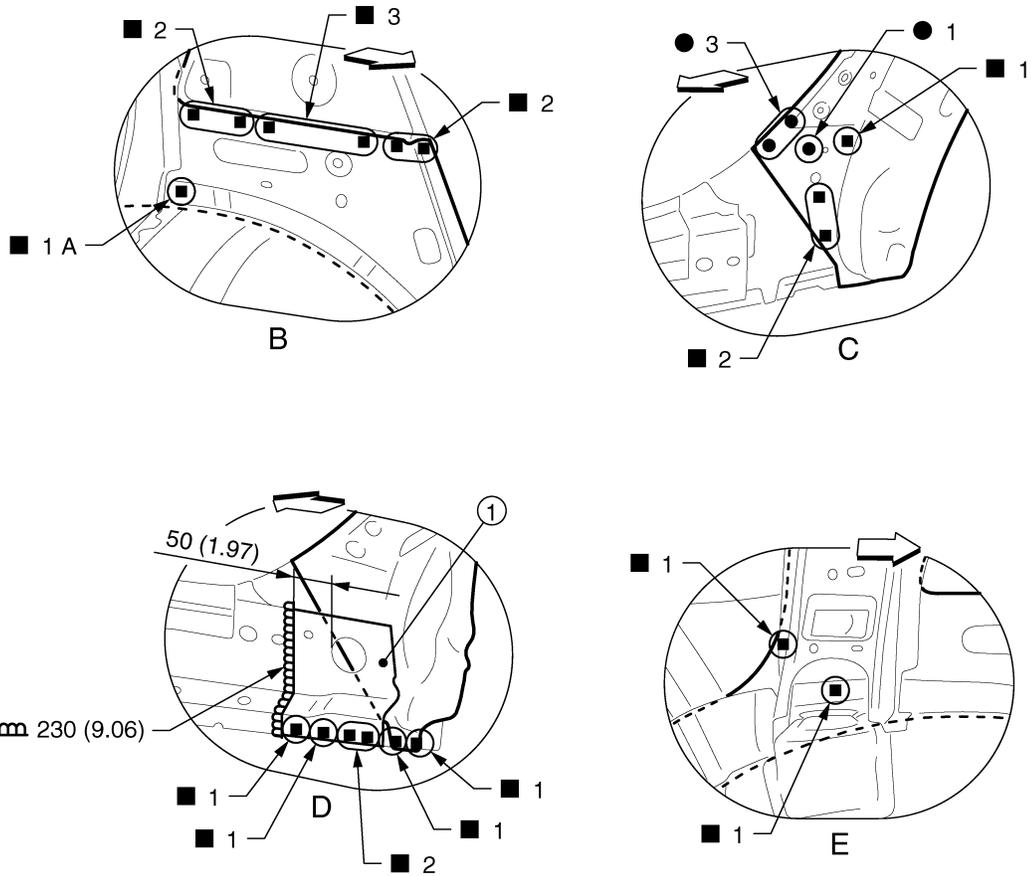
Replacement parts

● Outer rear wheelhouse (LH)

JSKIA2182ZZ

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >



1. Outer sill reinforcement

Unit: mm (in)

↔: Vehicle front

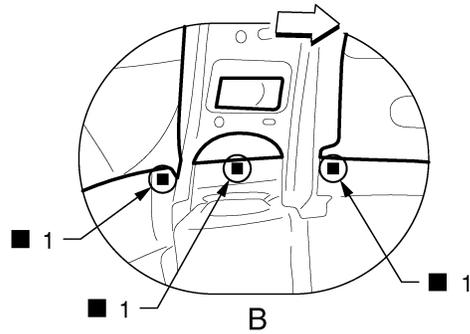
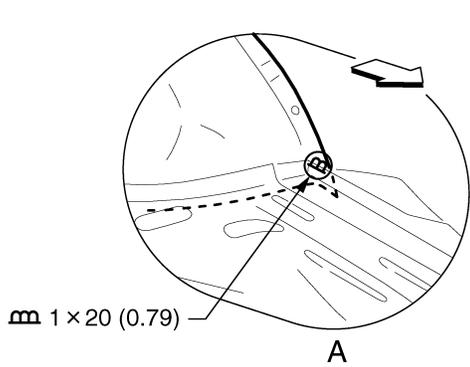
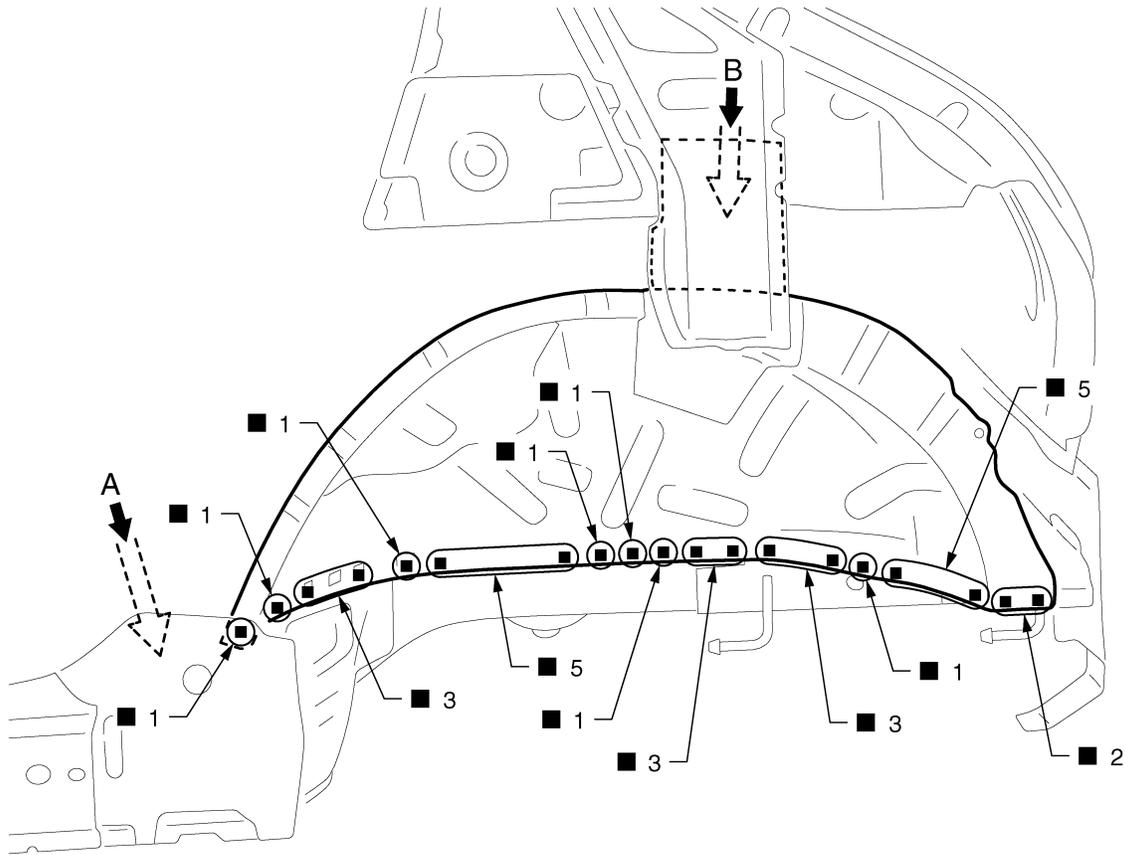
View C: Before installing outer sill reinforcement
Inner Rear Wheelhouse (2WD Models)

INFOID:000000006482854

Work after rear fender, outer sill reinforcement, and outer rear wheelhouse are removed.

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >



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Unit: mm (in)

⇐: Vehicle front

Replacement parts

- Inner rear wheelhouse (LH)

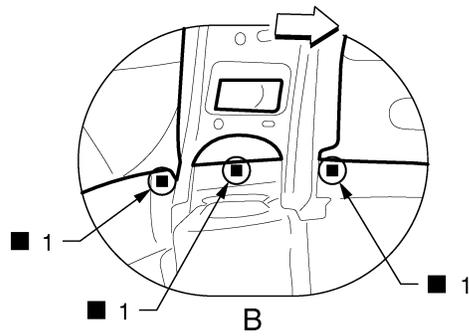
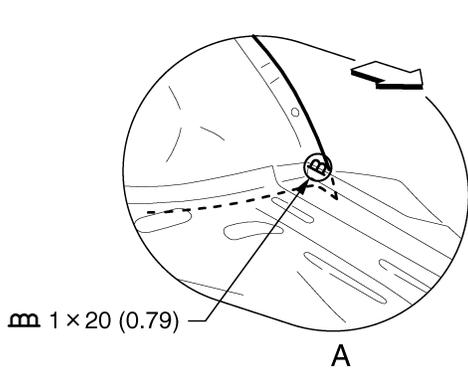
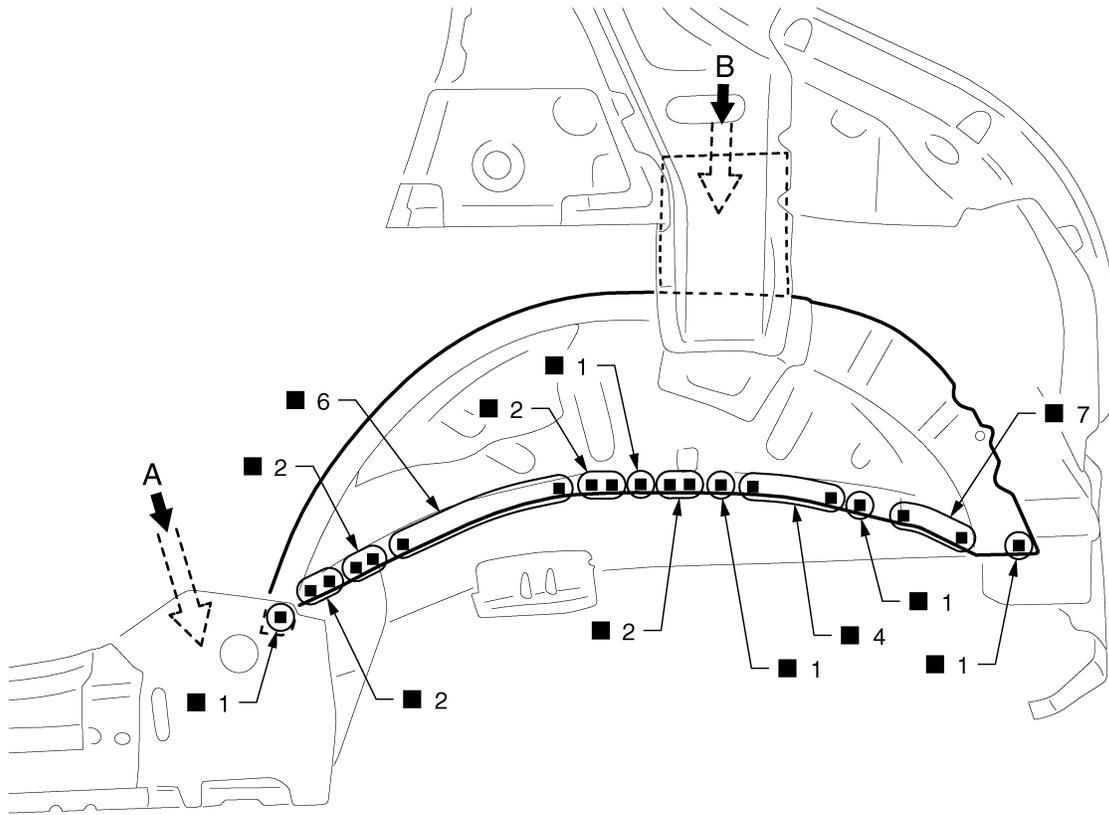
Inner Rear Wheelhouse (4WD Models)

INFOID:000000006482855

Work after rear fender, outer sill reinforcement, and outer rear wheelhouse are removed.

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >



JSKIA2184GB

Unit: mm (in)

↔: Vehicle front

Replacement parts

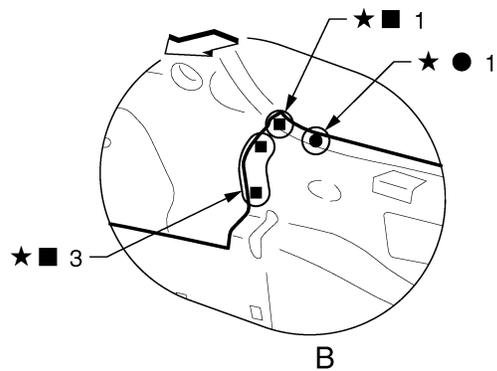
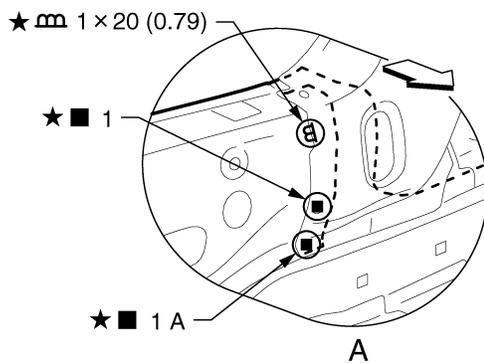
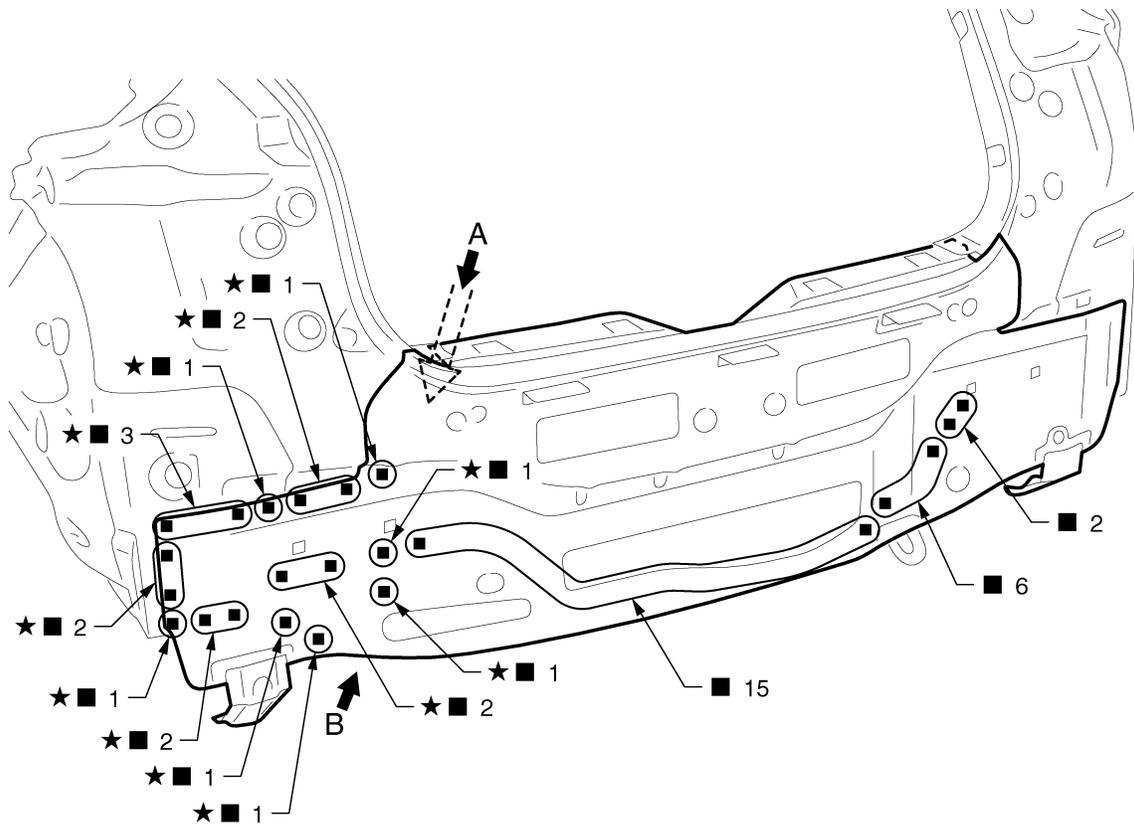
- Inner rear wheelhouse (LH)

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >

Rear Panel (2WD Models)

INFOID:000000006482861



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Unit: mm (in)

◁: Vehicle front

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

Replacement parts

- Upper rear panel

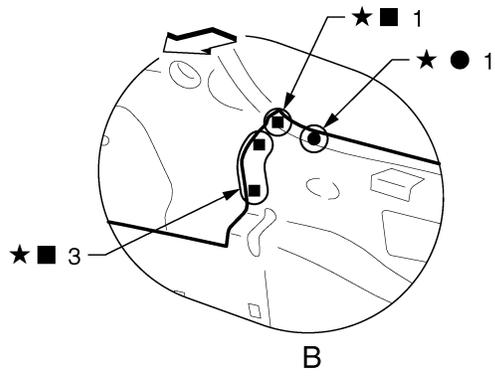
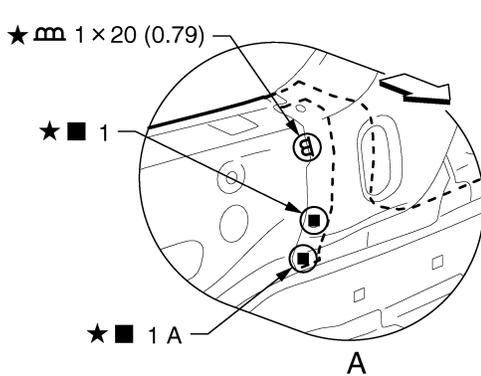
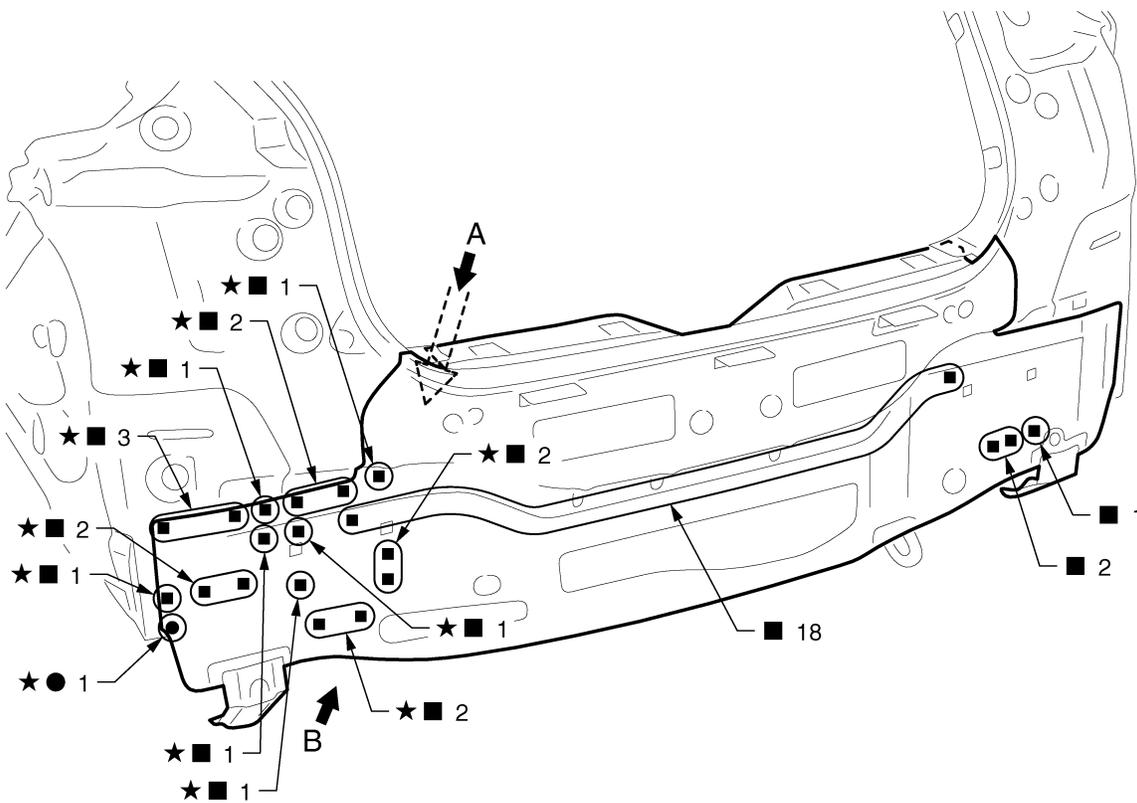
JSKIA2028GB

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >

Rear Panel (4WD Models)

INFOID:000000006482862



JSKIA2185GB

Unit: mm (in)

◁: Vehicle front

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

Replacement parts

- Upper rear panel

Inner Rear Pillar

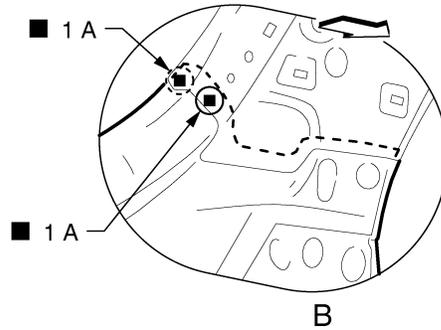
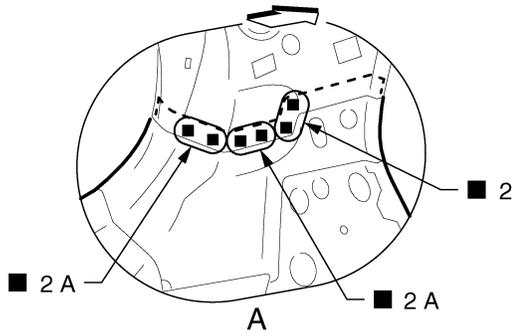
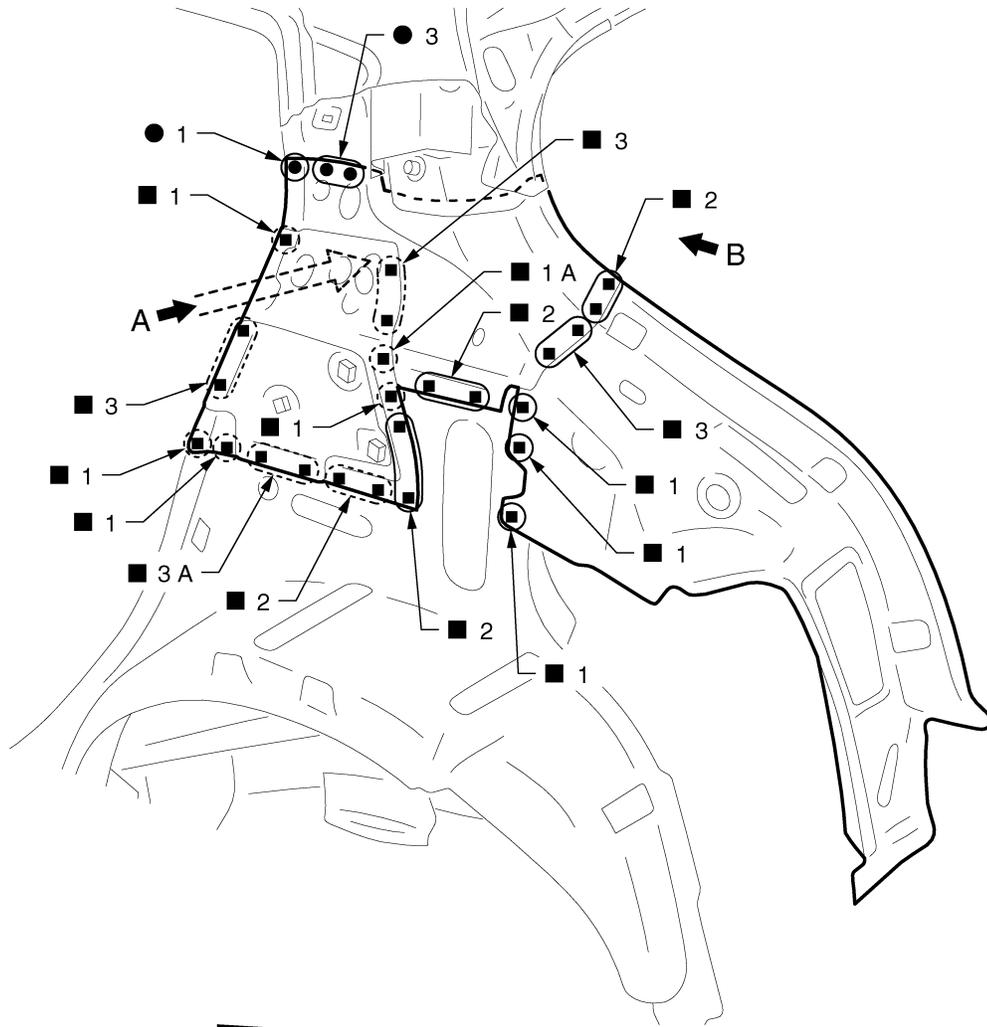
INFOID:000000006482857

Work after rear fender and inner rear pillar reinforcement are removed.

BRM-100

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >



←: Vehicle front

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

Replacement parts

● Inner rear pillar (LH)

● Rear pillar reinforcement (LH)

Rear Floor Rear (2WD Models)

Work after rear panel is removed.

JSKIA2186ZZ

INFOID:000000006482864

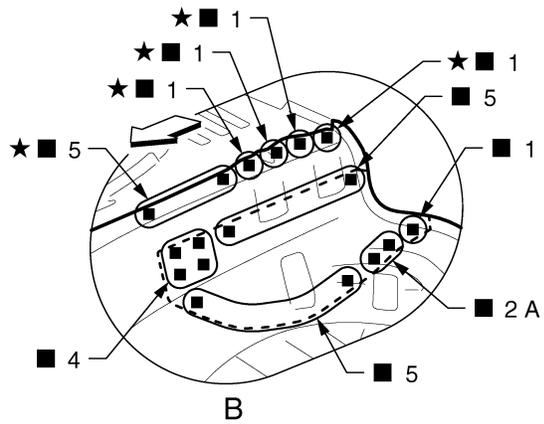
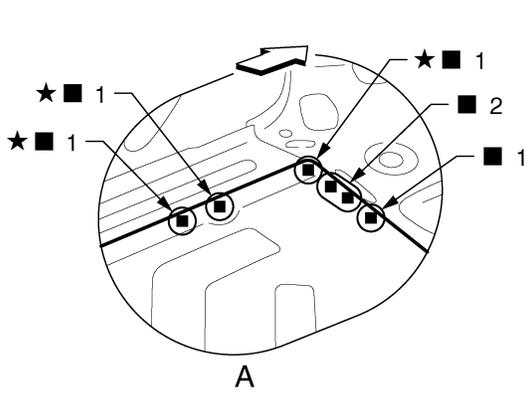
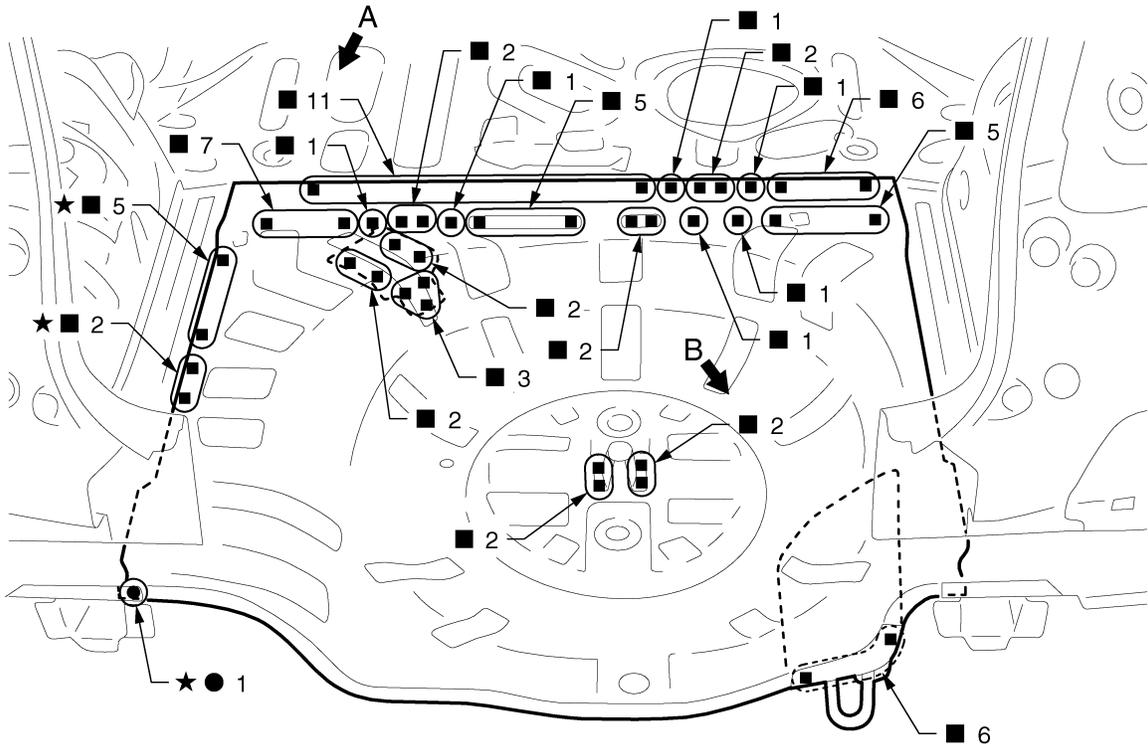
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REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >



JSKIA2029ZZ

↔ Vehicle front

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

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

Replacement parts

- Rear floor rear
- Spare tire clamp bracket
- Rear towing hook bracket
- Muffler mounting bracket

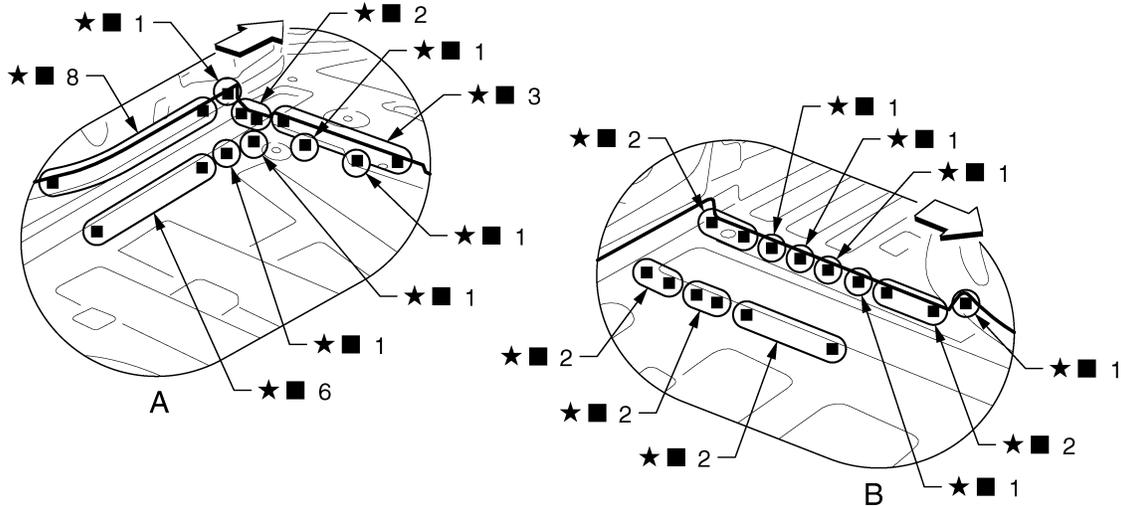
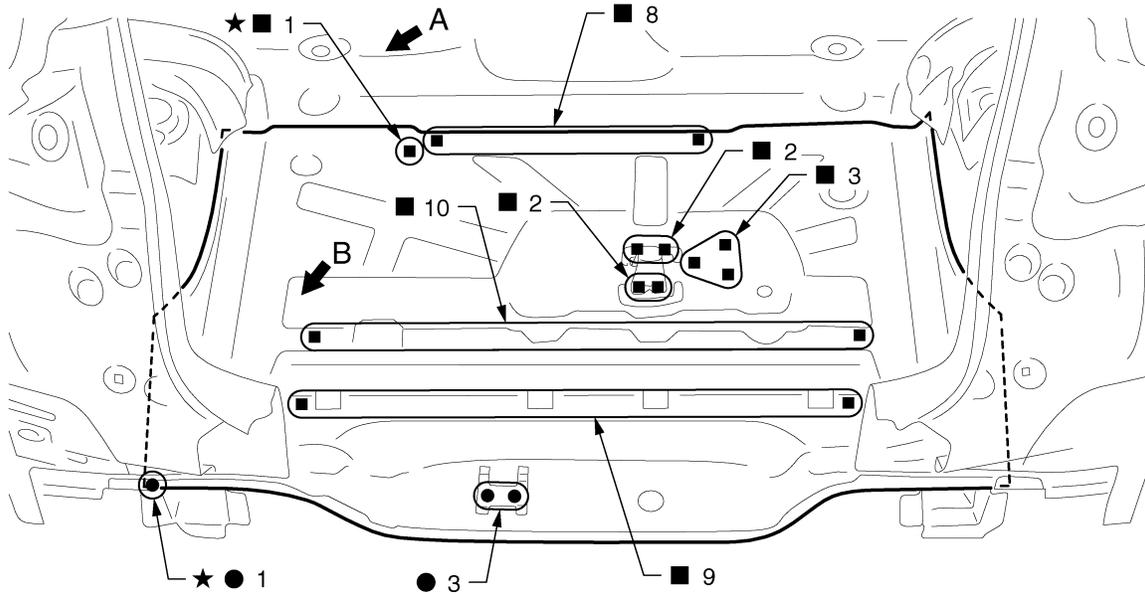
Rear Floor Rear (4WD Models)

INFOID:000000006482865

Work after rear panel is removed.

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >



JSKIA2187ZZ

←: Vehicle front

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

Replacement parts

- Rear floor rear
- Spare tire clamp bracket
- Jack mounting bracket
- Canister bracket

Rear Side Member (4WD Models Partial Replacement)

INFOID:000000006482867

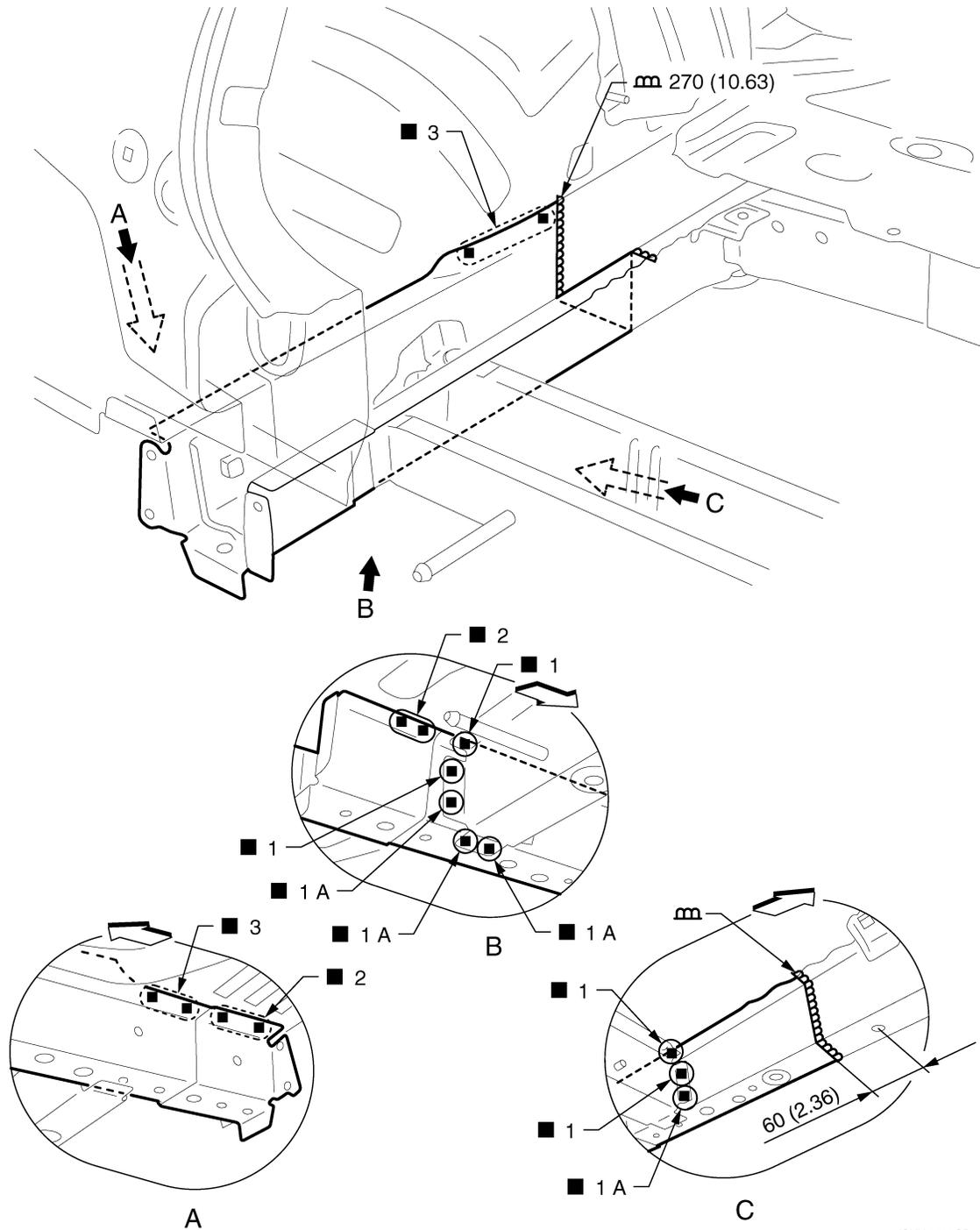
Work after rear panel and rear floor rear are removed.

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REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >



JSKIA2188GB

Unit: mm (in)

↔: Vehicle front

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

Replacement parts

- Rear side member assembly (LH)

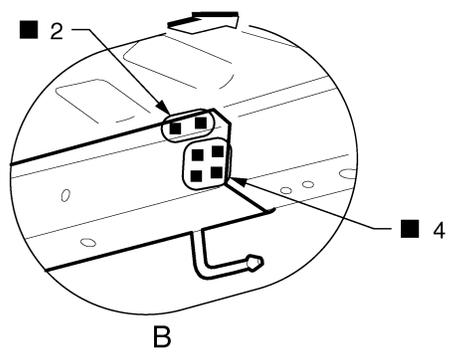
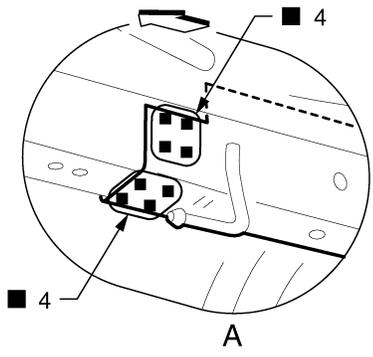
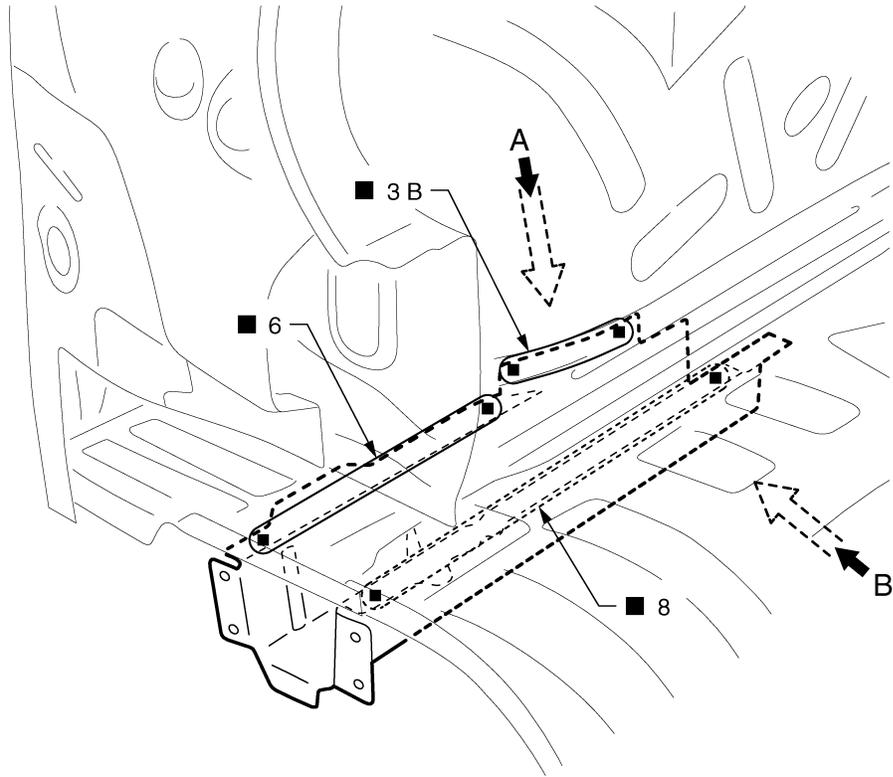
Rear Side Member Extension (2WD Models)

INFOID:000000006482868

Work after rear panel is removed.

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >



- ←: Vehicle front
- : Weld the parts onto the back of the component part.
- Replacement parts
- Rear side member extension (LH)

Rear Side Member Extension (4WD Models)

Work after rear panel is removed.

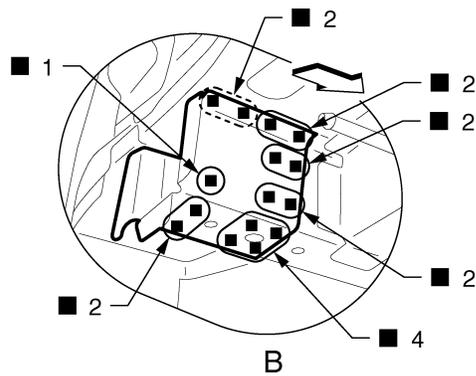
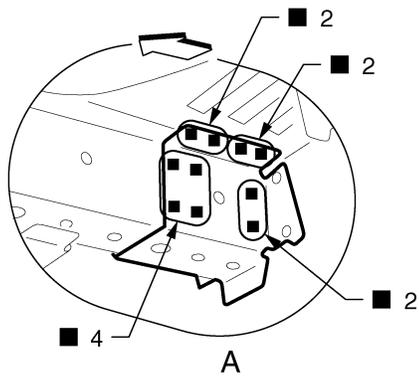
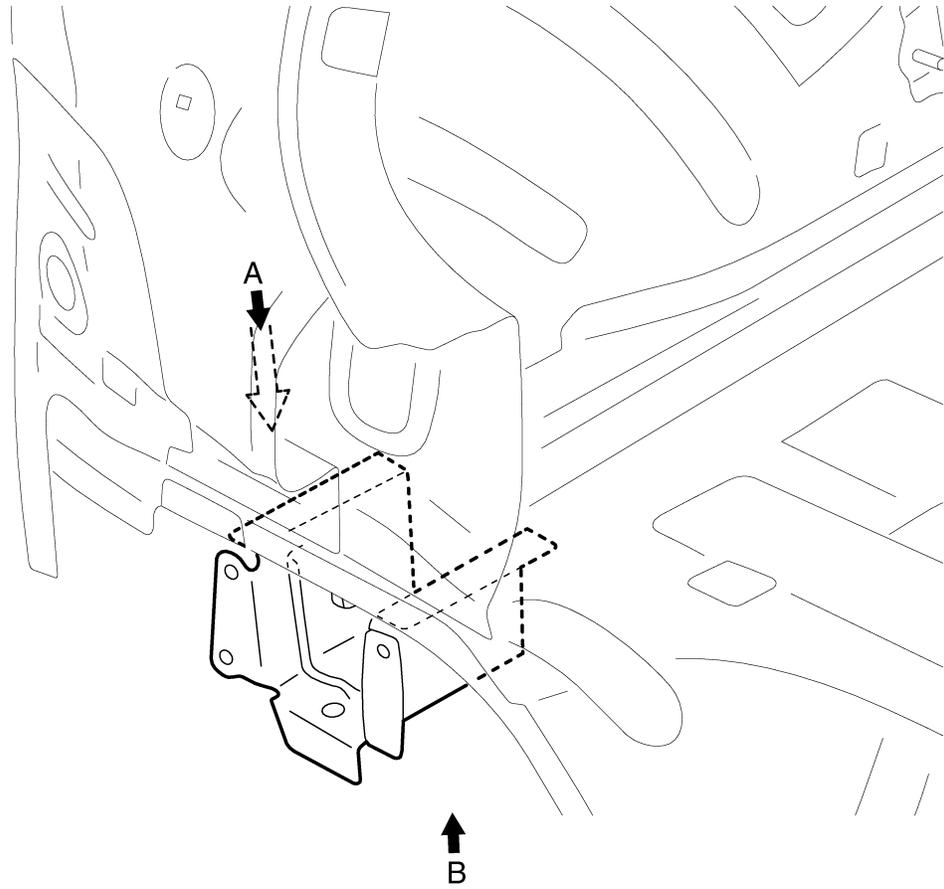
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JSKIA2032ZZ

INFOID:000000006517746

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >



JSKIA2189ZZ

←: Vehicle front

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

Replacement parts

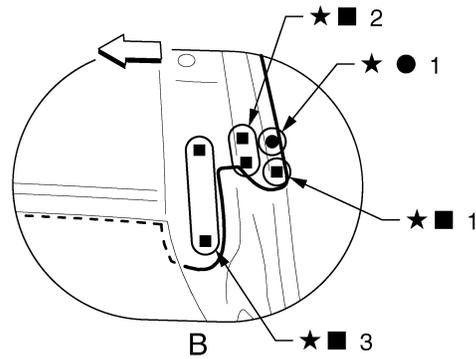
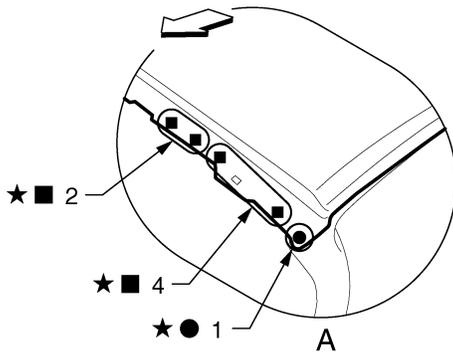
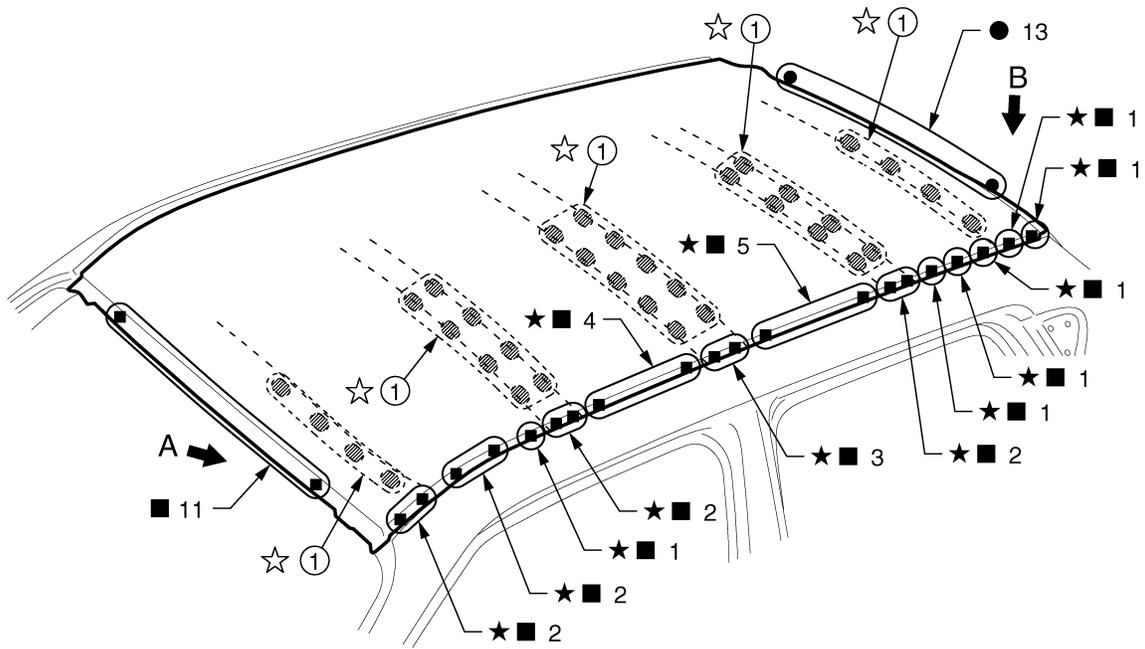
- Rear side member extension (LH)

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >

Roof

INFOID:000000006482869



1. Body sealing

◁: Vehicle front

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

☆: Sealing portion apply to both side of the vehicle.

Replacement parts

● Roof

● Roof bow No. 1

● Roof bow No. 2

● Roof bow No. 3

JSKIA2190ZZ

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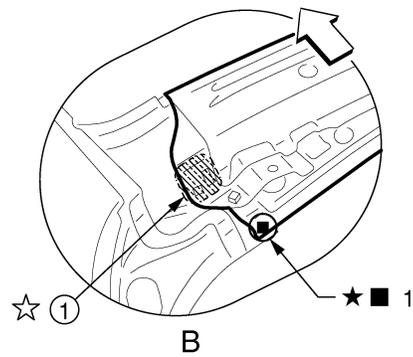
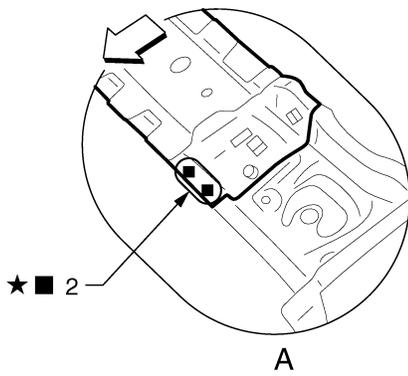
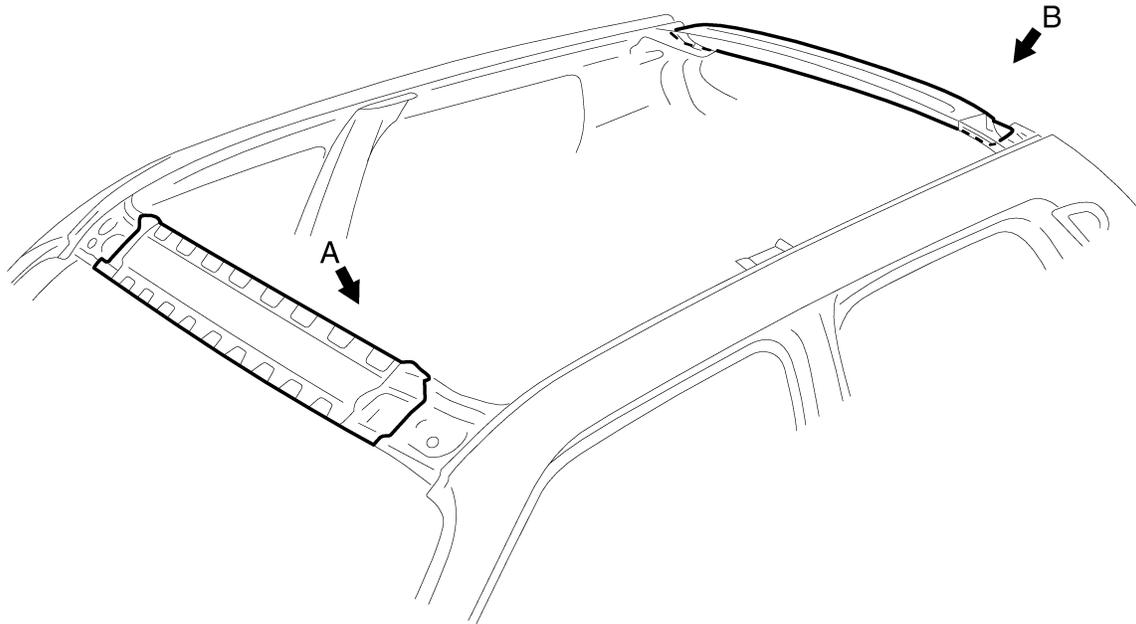
REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >

Roof Rail

INFOID:000000006482870

Work after roof is removed.



JSKIA2191ZZ

1. Adhesive

↔: Vehicle front

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

☆: Adhesive portion apply to both side of the vehicle.

Replacement parts

- Front roof rail
- Rear roof rail

BODY ALIGNMENT

< SERVICE DATA AND SPECIFICATIONS (SDS)

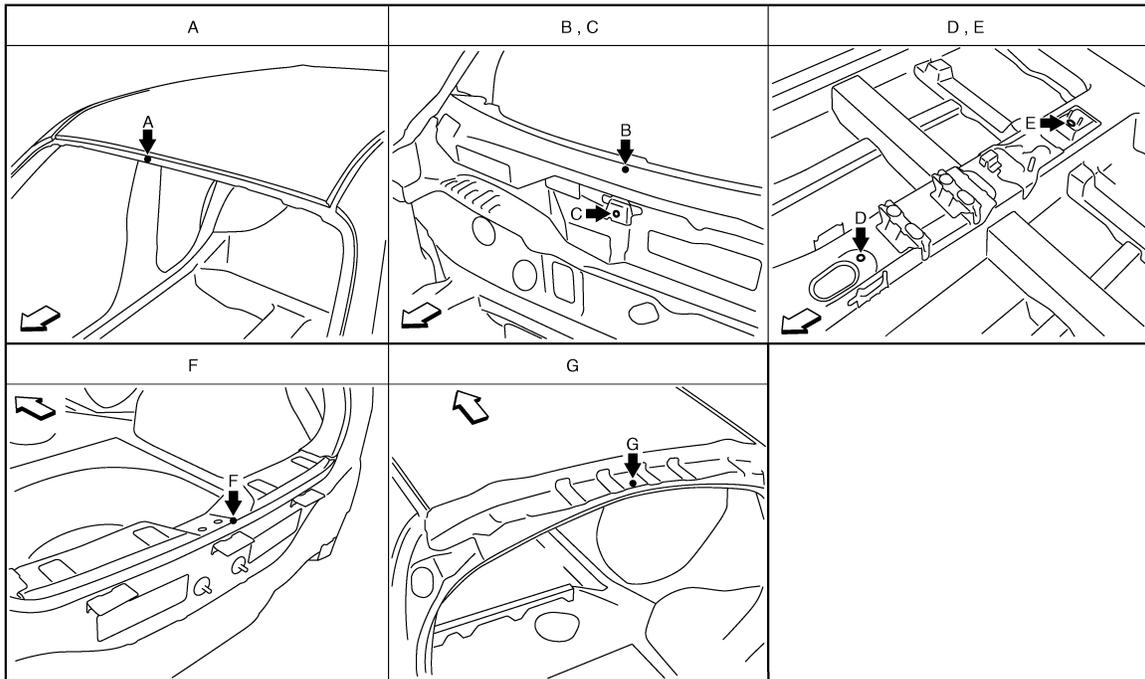
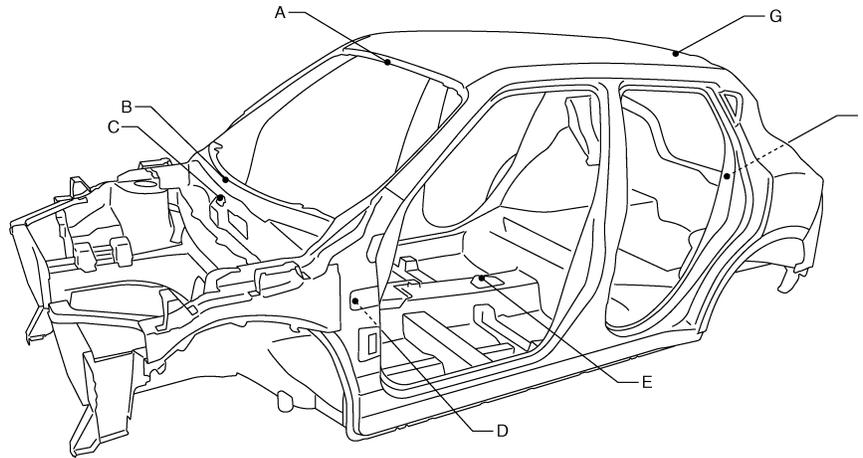
SERVICE DATA AND SPECIFICATIONS (SDS)

BODY ALIGNMENT

Body Center Marks (RHD Models)

INFOID:000000006482872

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.



JSKIA1988ZZ

←: Vehicle front

Unit: mm (in)

Points	Portion	Marks
A	Front roof	Embossment
B	Cowl top	Embossment
C	Upper dash	Hole $\phi 7$ (0.28)
D	Trans control reinforcement	Hole $\phi 16$ (0.63)

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BODY ALIGNMENT

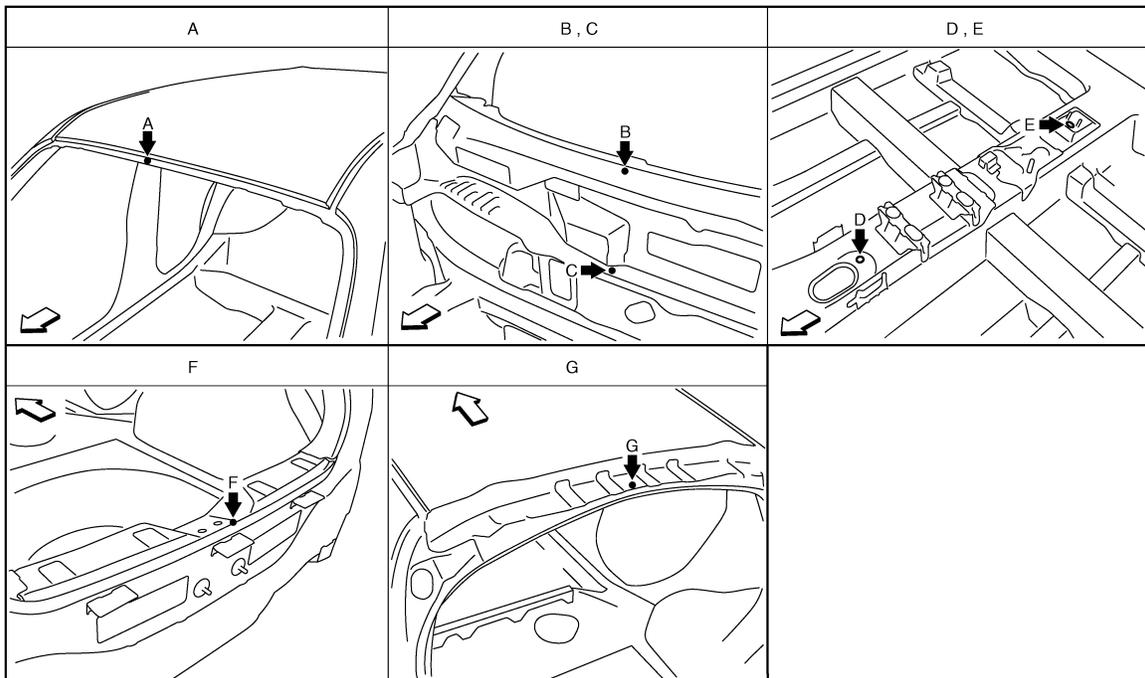
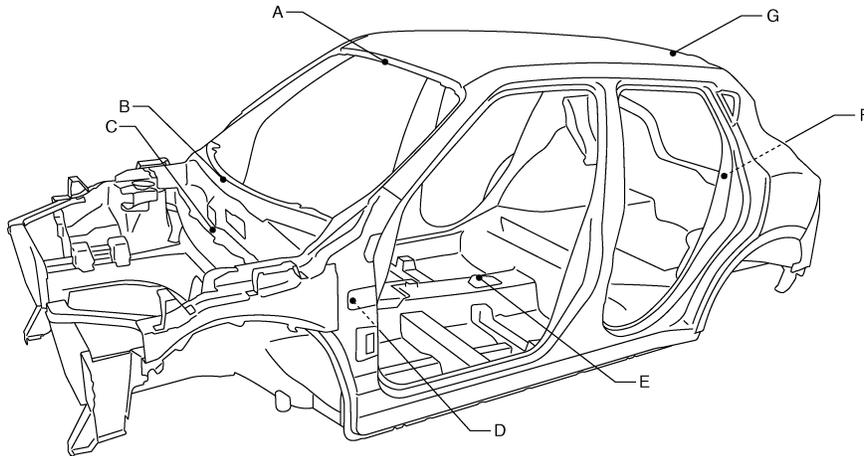
< SERVICE DATA AND SPECIFICATIONS (SDS)

Points	Portion	Marks
E	Parking brake reinforcement	Hole $\phi 12$ (0.47)
F	Rear panel	Indent
G	Rear roof	Embossment

Body Center Marks (LHD Models)

INFOID:000000006482893

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.



JSKIA2144ZZ

↶: Vehicle front

Unit: mm (in)

Points	Portion	Marks
A	Front roof	Embossment
B	Cowl top	Embossment

BODY ALIGNMENT

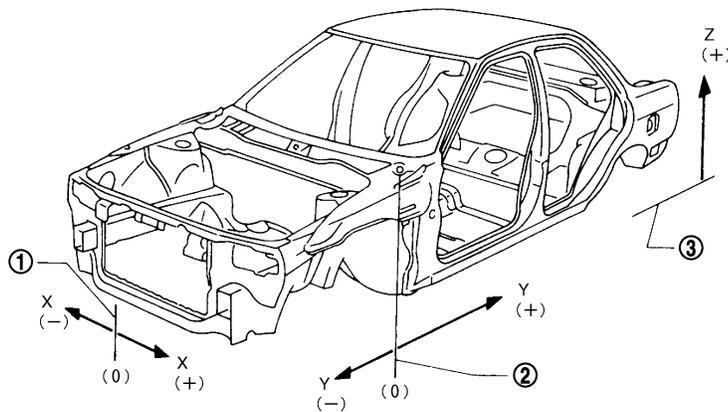
< SERVICE DATA AND SPECIFICATIONS (SDS)

Points	Portion	Marks
C	Upper dash	Embossment
D	Trans control reinforcement	Hole $\phi 16$ (0.63)
E	Parking brake reinforcement	Hole $\phi 12$ (0.47)
F	Rear panel	Indent
G	Rear roof	Embossment

Description

INFOID:000000006482873

- 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 (2WD RHD Models)

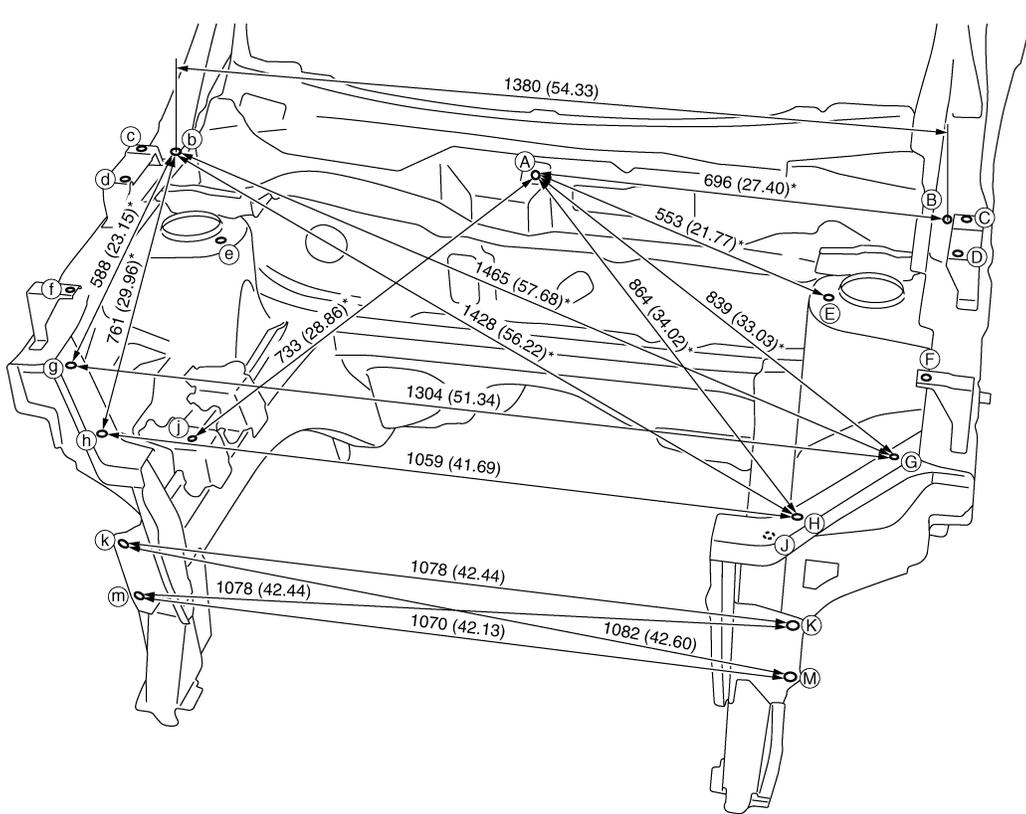
INFOID:000000006482874

MEASUREMENT

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

BODY ALIGNMENT

< SERVICE DATA AND SPECIFICATIONS (SDS)



JSKIA2145GB

Unit: mm (in)

«The others»

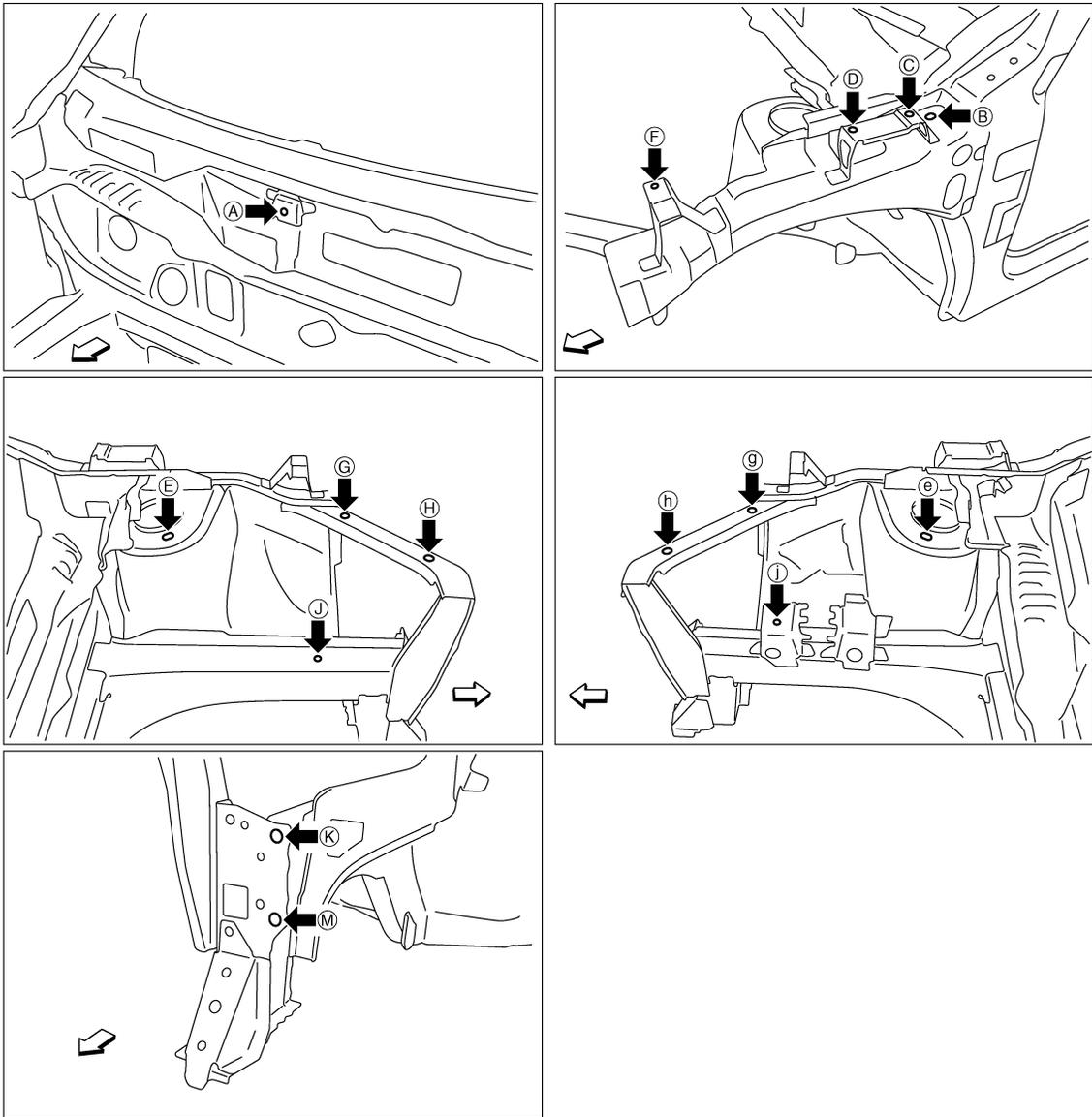
Unit: mm (in)

Point	Dimension	Memo	Point	Dimension	Memo	Point	Dimension	Memo	Point	Dimension	Memo
A - C	721 (28.39)*		B - E	298 (11.73)*		D - d	1429 (56.26)		G - h	1192 (46.93)*	
A - D	723 (28.46)*		B - e	1233 (48.54)*		E - e	1037 (40.83)		J - j	965 (37.99)	
A - F	802 (31.57)*		C - c	1441 (56.73)		F - f	1366 (53.78)				

MEASUREMENT POINTS

BODY ALIGNMENT

< SERVICE DATA AND SPECIFICATIONS (SDS)



JSKIA2146ZZ

←: Vehicle front

Unit: mm (in)

Point	Material	Point	Material
A	Wiper mounting bracket hole center of center positioning mark $\phi 7$ (0.28)	G, g, H, h	Upper radiator core support hole center G, g: $\phi 12$ (0.47) H, h: 14×12 (0.55×0.47)
B, b	Hoodledge reinforcement hole center 14×10 (0.55×0.39)	J	Front side member hole center $\phi 7$ (0.28)
C, c, F, f	Front fender installing hole center $\phi 7$ (0.28)	j	Engine mounting bracket hole center $\phi 11$ (0.43)
D, d	Front combination lamp installing hole center $\phi 7$ (0.28)	K, k, M, m	Front bumper stay installing hole center $\phi 15$ (0.59)
E, e	Front strut installing hole center 16×10 (0.63×0.39)		

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BODY ALIGNMENT

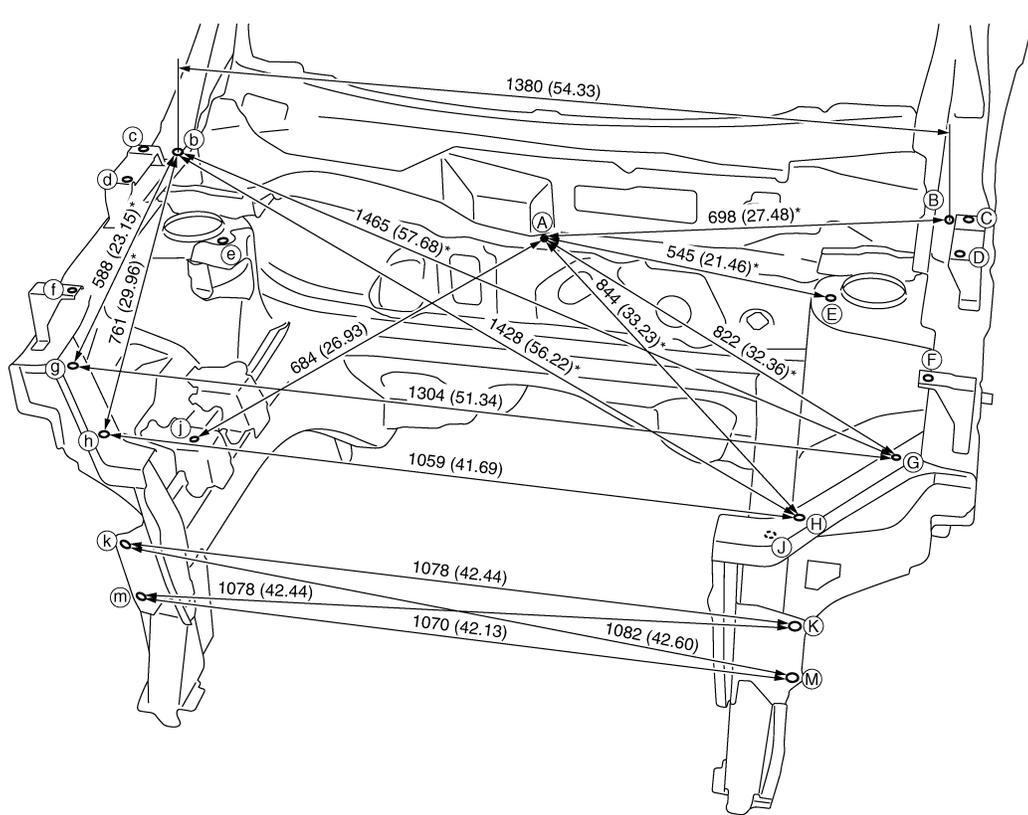
< SERVICE DATA AND SPECIFICATIONS (SDS)

Engine Compartment (2WD LHD Models)

INFOID:000000006482894

MEASUREMENT

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



JSKIA2147GB

Unit: mm (in)

«The others»

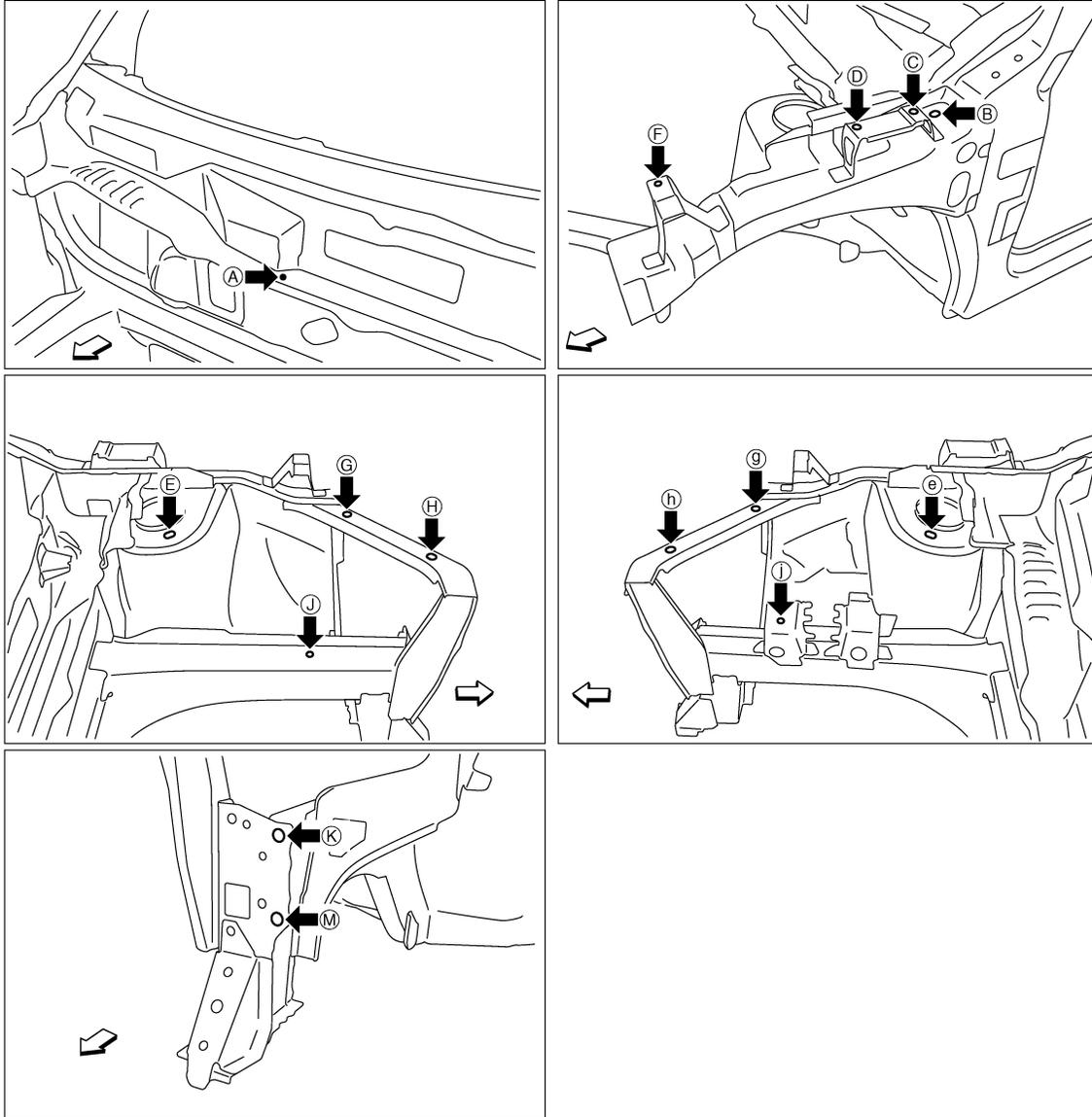
Unit: mm (in)

Point	Dimension	Memo	Point	Dimension	Memo	Point	Dimension	Memo	Point	Dimension	Memo
A - C	729 (28.70)*		A - J	673 (26.50)		C - c	1441 (56.73)		F - f	1366 (53.78)	
A - D	729 (28.70)*		B - E	298 (11.73)*		D - d	1429 (56.26)		G - h	1192 (46.93)*	
A - F	798 (31.42)*		B - e	1233 (48.54)*		E - e	1037 (40.83)		J - j	965 (37.99)	

MEASUREMENT POINTS

BODY ALIGNMENT

< SERVICE DATA AND SPECIFICATIONS (SDS)



JSKIA2148ZZ

←: Vehicle front

Unit: mm (in)

Point	Material	Point	Material
A	Upper dash positioning mark of center positioning mark	G, g, H, h	Upper radiator core support hole center G, g: $\phi 12$ (0.47) H, h: 14×12 (0.55×0.47)
B, b	Hoodedge reinforcement hole center 14×10 (0.55×0.39)	J	Front side member hole center $\phi 7$ (0.28)
C, c, F, f	Front fender installing hole center $\phi 7$ (0.28)	j	Engine mounting bracket hole center $\phi 11$ (0.43)
D, d	Front combination lamp installing hole center $\phi 7$ (0.28)	K, k, M, m	Front bumper stay installing hole center $\phi 15$ (0.59)
E, e	Front strut installing hole center 16×10 (0.63×0.39)		

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BODY ALIGNMENT

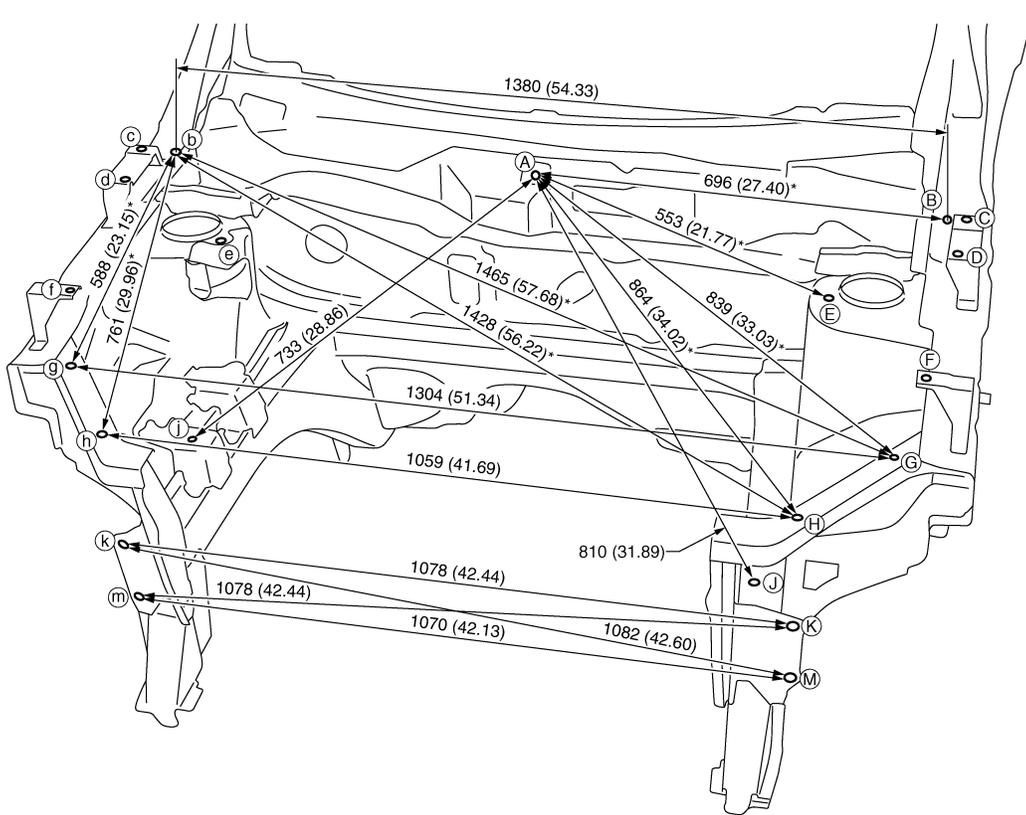
< SERVICE DATA AND SPECIFICATIONS (SDS)

Engine Compartment (4WD RHD Models)

INFOID:000000006482875

MEASUREMENT

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



JSKIA2149GB

Unit: mm (in)

«The others»

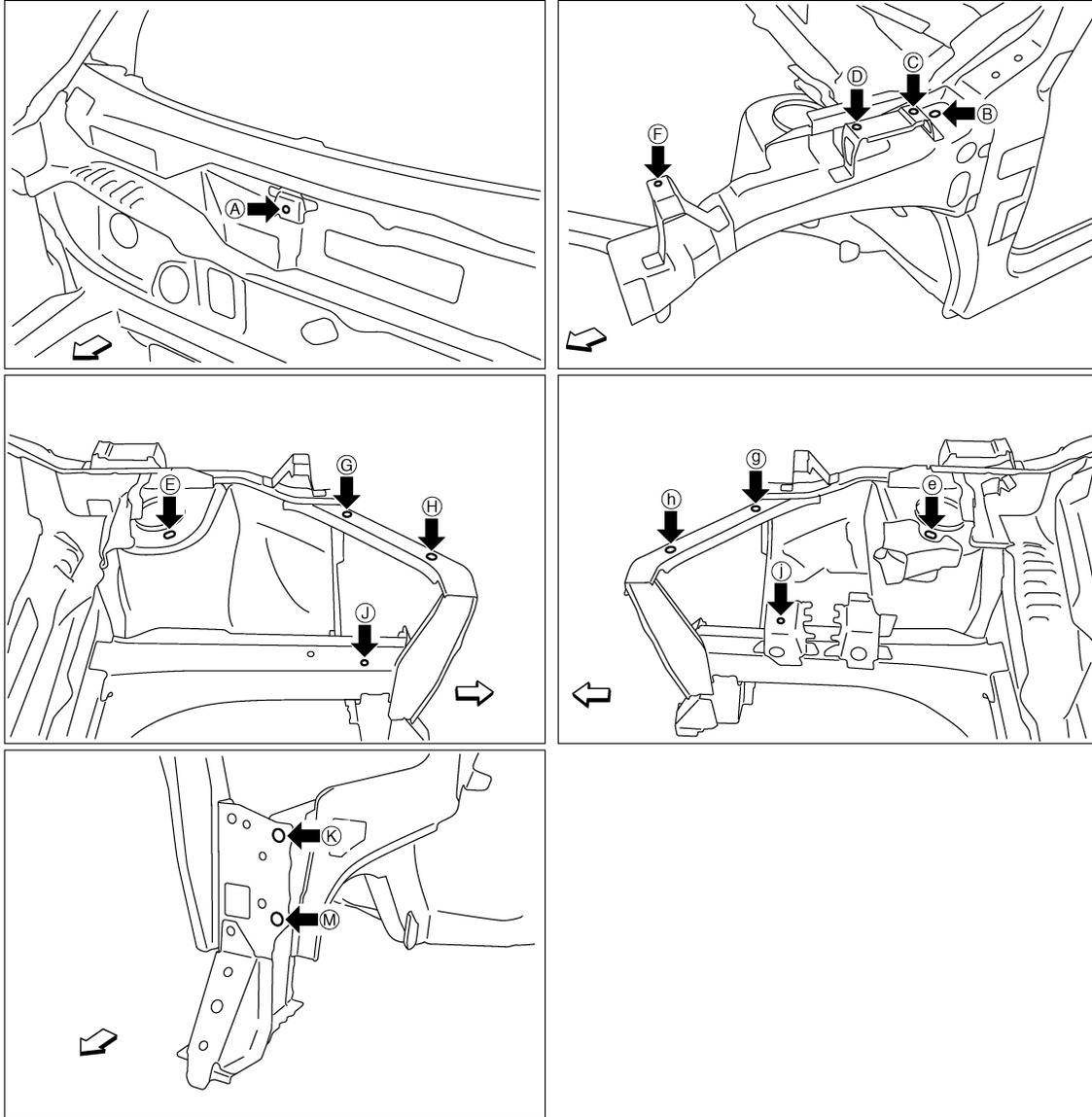
Unit: mm (in)

Point	Dimension	Memo	Point	Dimension	Memo	Point	Dimension	Memo	Point	Dimension	Memo
A - C	721 (28.39)*		B - E	298 (11.73)*		D - d	1429 (56.26)		G - h	1192 (46.93)*	
A - D	723 (28.46)*		B - e	1233 (48.54)*		E - e	1037 (40.83)		J - j	958 (37.72)	
A - F	802 (31.57)*		C - c	1441 (56.73)		F - f	1366 (53.78)				

MEASUREMENT POINTS

BODY ALIGNMENT

< SERVICE DATA AND SPECIFICATIONS (SDS)



JSKIA2150ZZ

←: Vehicle front

Unit: mm (in)

Point	Material	Point	Material
A	Wiper mounting bracket hole center of center positioning mark $\phi 7$ (0.28)	G, g, H, h	Upper radiator core support hole center G, g: $\phi 12$ (0.47) H, h: 14×12 (0.55×0.47)
B, b	Hoodedge reinforcement hole center 14×10 (0.55×0.39)	J	Front side member hole center $\phi 7$ (0.28)
C, c, F, f	Front fender installing hole center $\phi 7$ (0.28)	j	Engine mounting bracket hole center $\phi 11$ (0.43)
D, d	Front combination lamp installing hole center $\phi 7$ (0.28)	K, k, M, m	Front bumper stay installing hole center $\phi 15$ (0.59)
E, e	Front strut installing hole center 16×10 (0.63×0.39)		

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BODY ALIGNMENT

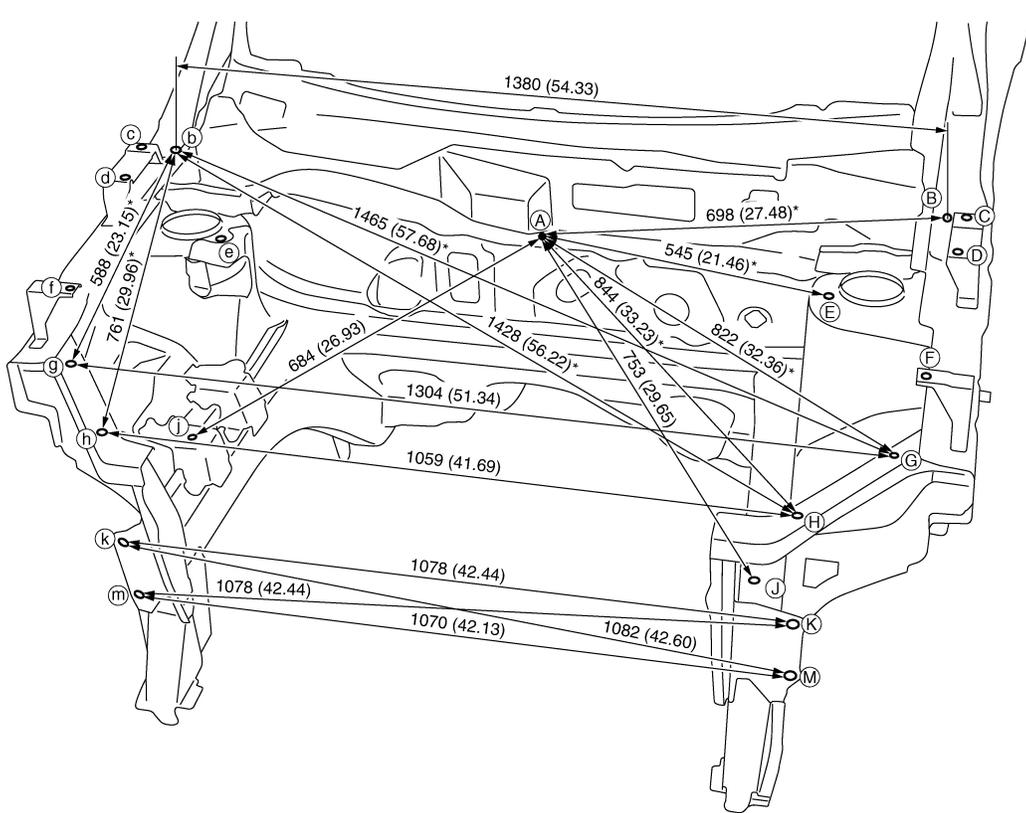
< SERVICE DATA AND SPECIFICATIONS (SDS)

Engine Compartment (4WD LHD Models)

INFOID:000000006482895

MEASUREMENT

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



JSKIA2151GB

Unit: mm (in)

«The others»

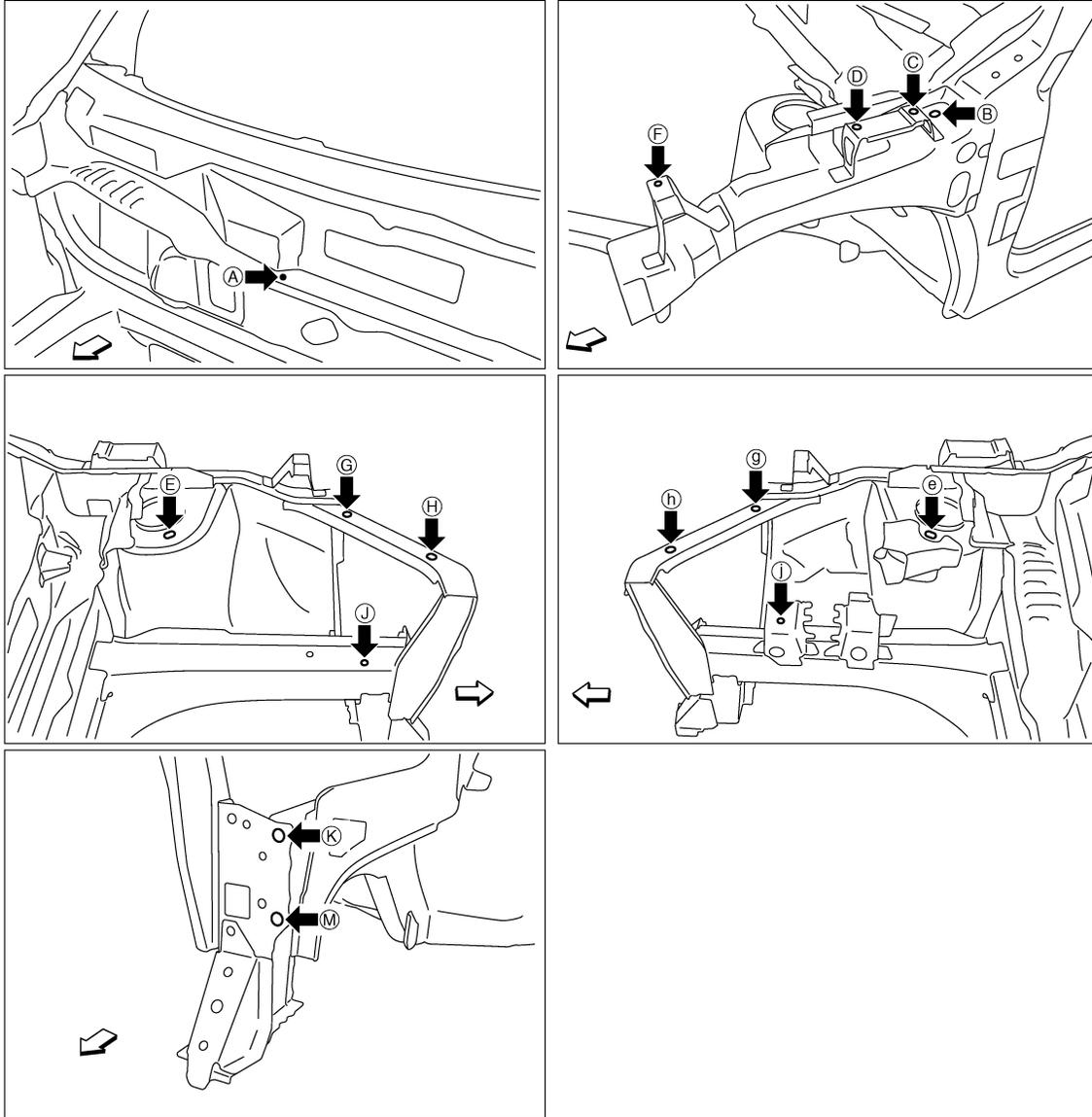
Unit: mm (in)

Point	Dimension	Memo	Point	Dimension	Memo	Point	Dimension	Memo	Point	Dimension	Memo
A - C	729 (28.70)*		B - E	298 (11.73)*		D - d	1429 (56.26)		G - h	1192 (46.93)*	
A - D	729 (28.70)*		B - e	1233 (48.54)*		E - e	1037 (40.83)		J - j	958 (37.72)	
A - F	798 (31.42)*		C - c	1441 (56.73)		F - f	1366 (53.78)				

MEASUREMENT POINTS

BODY ALIGNMENT

< SERVICE DATA AND SPECIFICATIONS (SDS)



JSKIA2152ZZ

←: Vehicle front

Unit: mm (in)

Point	Material	Point	Material
A	Upper dash positioning mark of center positioning mark	G, g, H, h	Upper radiator core support hole center G, g: $\phi 12$ (0.47) H, h: 14×12 (0.55 \times 0.47)
B, b	Hoodedge reinforcement hole center 14×10 (0.55 \times 0.39)	J	Front side member hole center $\phi 7$ (0.28)
C, c, F, f	Front fender installing hole center $\phi 7$ (0.28)	j	Engine mounting bracket hole center $\phi 11$ (0.43)
D, d	Front combination lamp installing hole center $\phi 7$ (0.28)	K, k, M, m	Front bumper stay installing hole center $\phi 15$ (0.59)
E, e	Front strut installing hole center 16×10 (0.63 \times 0.39)		

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BODY ALIGNMENT

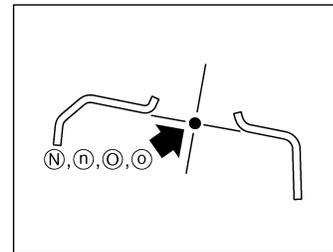
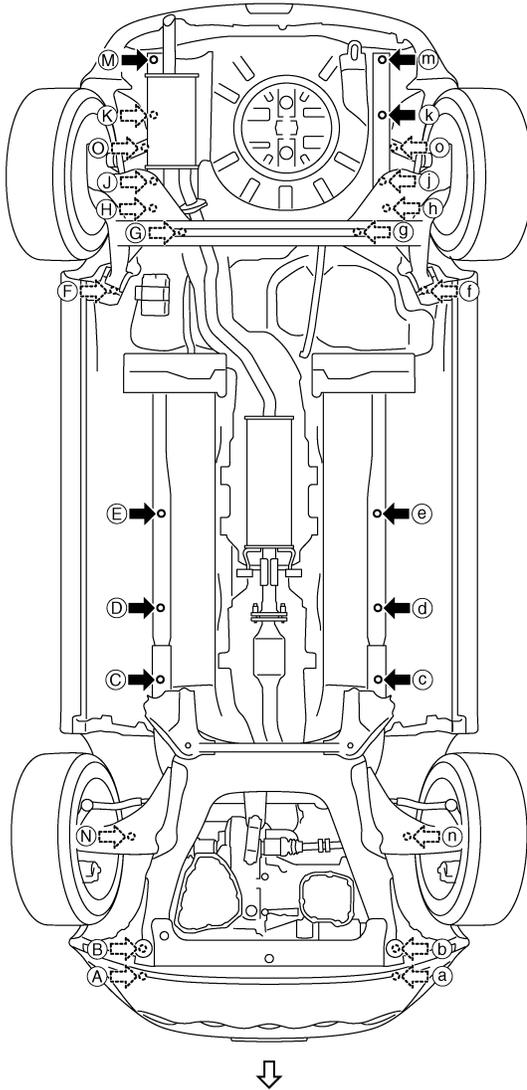
< SERVICE DATA AND SPECIFICATIONS (SDS)

Unit: mm (in)

↔: Vehicle front

←: Vehicle left side

MEASUREMENT POINTS



JSKIA2153ZZ

↔: Vehicle front

Unit: mm (in)

Points	Coordinates			Remarks	Points	Coordinates			Remarks
	X	Y	Z			X	Y	Z	
A	473.5 (18.642)	-557.0 (-21.929)	293.0 (11.535)	Hole ϕ 11 (0.43)	H, h	\pm 482.3 (\pm 18.988)	2374.2 (93.472)	348.3 (13.713)	Hole ϕ 12 (0.47)
a	-491.0 (-19.331)	-557.0 (-21.929)	301.9 (11.886)	Hole ϕ 11 (0.43)	J	499.5 (19.665)	2448.0 (96.378)	378.0 (14.882)	Hole ϕ 21 (0.83)
B	472.4 (18.598)	-455.0 (-17.913)	328.9 (12.949)	Hole ϕ 18 (0.71)	j	-487.5 (-19.193)	2448.0 (96.378)	378.0 (14.882)	Hole ϕ 21 (0.83)

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BODY ALIGNMENT

< SERVICE DATA AND SPECIFICATIONS (SDS)

Points	Coordinates			Remarks	Points	Coordinates			Remarks
	X	Y	Z			X	Y	Z	
b	-489.7 (-19.279)	-455.0 (-17.913)	328.9 (12.949)	Hole ϕ 18 (0.71)	K	498.0 (19.606)	2743.0 (107.992)	378.0 (14.882)	Hole 17×16 (0.67×0.63)
C, c	\pm 410.0 (\pm 16.142)	547.0 (21.535)	190.2 (7.488)	Hole ϕ 16 (0.63)	k	-487.5 (-19.193)	2743.0 (107.992)	378.0 (14.882)	Hole 17×16 (0.67×0.63)
D, d	\pm 410.0 (\pm 16.142)	815.0 (32.087)	184.0 (7.244)	Hole ϕ 12 (0.47)	M	498.0 (19.606)	2970.0 (116.929)	375.4 (14.779)	Hole ϕ 16 (0.63)
E, e	\pm 410.0 (\pm 16.142)	1173.0 (46.181)	170.1 (6.697)	Hole 14×2 (0.55×0.47)	m	-485.1 (-19.098)	2965.8 (116.764)	375.4 (14.779)	Hole ϕ 16 (0.63)
F, f	\pm 633.0 (\pm 24.921)	2032.3 (80.012)	318.0 (12.520)	Hole ϕ 16 (0.63)	N, n	\pm 583.6 (\pm 22.976)	6.6 (0.261)	868.2 (34.181)	Hole ϕ 98 (3.86)
G, g	\pm 350.0 (\pm 13.780)	2253.0 (88.701)	390.4 (15.370)	Hole \square 16 (0.63)	O, o	\pm 575.4 (\pm 22.653)	2569.2 (101.149)	734.4 (28.913)	Hole ϕ 20 (0.79)

Underbody (4WD Models)

INFOID:000000006482896

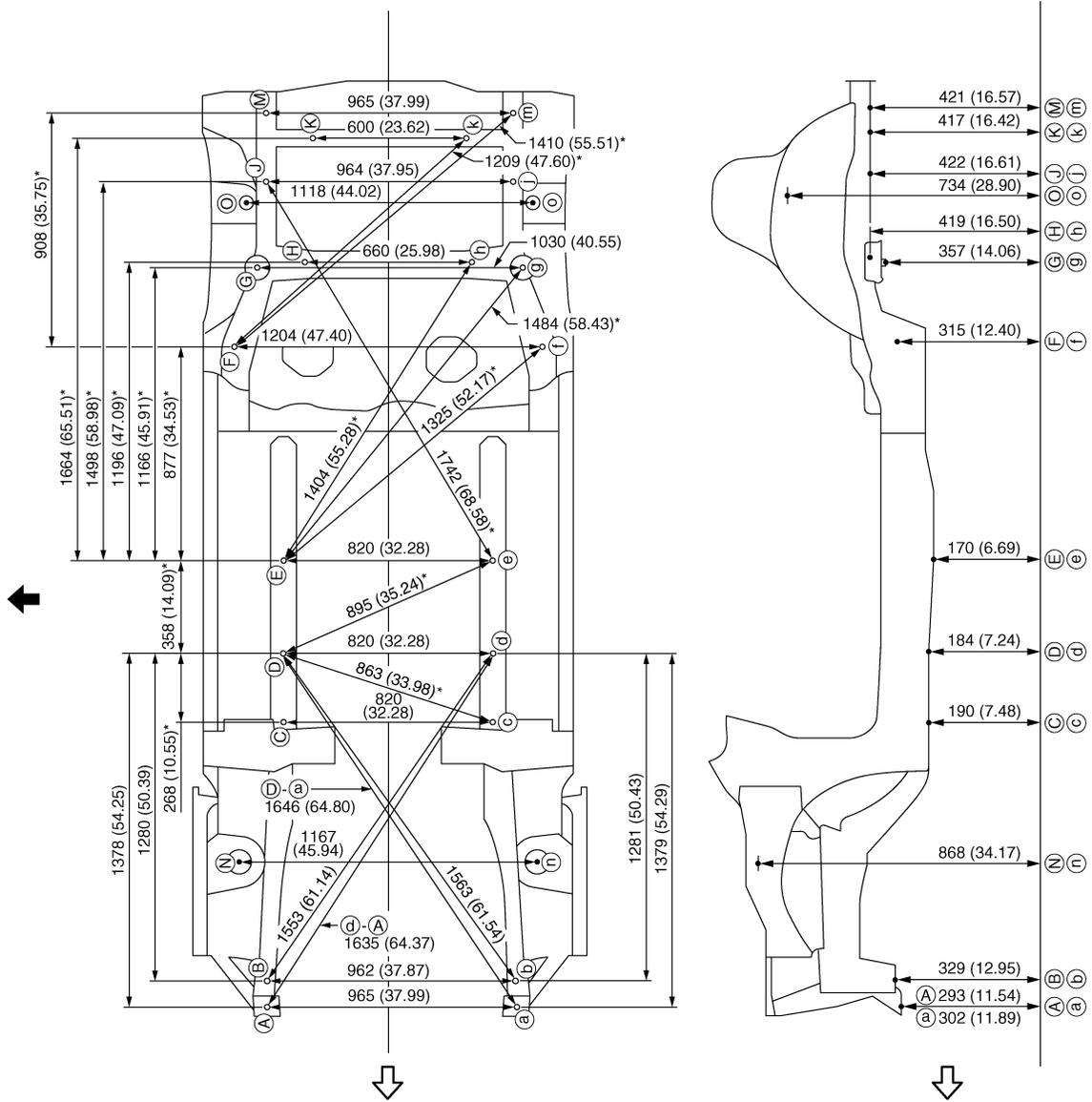
MEASUREMENT

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.

BODY ALIGNMENT

< SERVICE DATA AND SPECIFICATIONS (SDS)



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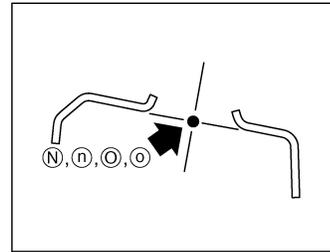
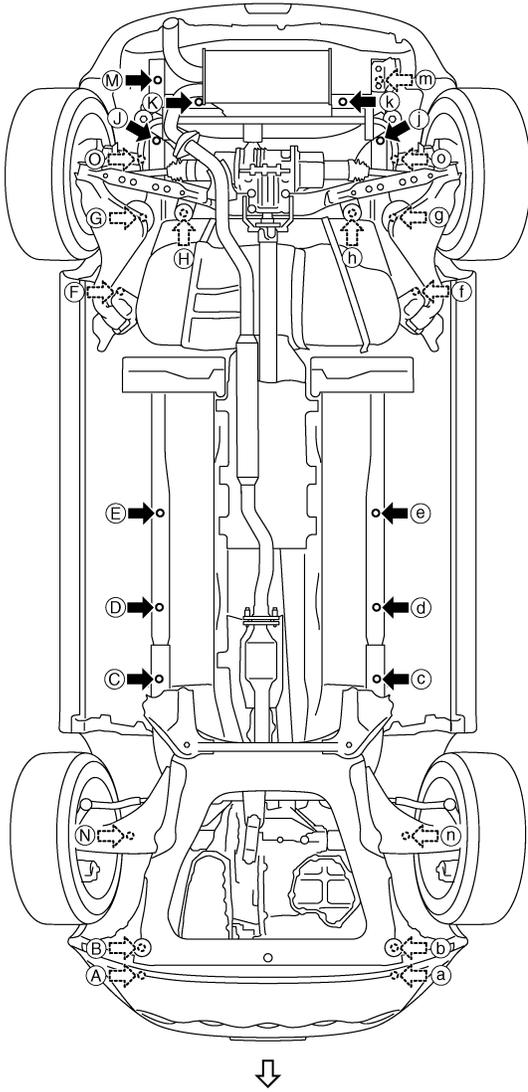
Unit: mm (in)
 ↖ Vehicle front
 ← Vehicle left side

MEASUREMENT POINTS

JSKIA2154GB

BODY ALIGNMENT

< SERVICE DATA AND SPECIFICATIONS (SDS)



JSKIA2155ZZ

↔ Vehicle front

Unit: mm (in)

Points	Coordinates			Remarks	Points	Coordinates			Remarks
	X	Y	Z			X	Y	Z	
A	473.5 (18.642)	-557.0 (-21.929)	293.0 (11.535)	Hole ϕ 11 (0.43)	G, g	\pm 515.1 (\pm 20.279)	2318.6 (91.283)	357.2 (14.063)	Hole ϕ 12 (0.47)
a	-491.0 (-19.331)	-557.0 (-21.929)	301.9 (11.886)	Hole ϕ 11 (0.43)	H, h	\pm 330.0 (\pm 12.992)	2339.7 (92.114)	419.0 (16.496)	Hole 33 \times 30 (1.30 \times 1.18)
B	472.4 (18.598)	-455.0 (-17.913)	328.9 (12.949)	Hole ϕ 18 (0.71)	J, j	\pm 482.0 (\pm 18.976)	2648.0 (104.252)	422.2 (16.622)	Hole 20 \times 6 (0.79 \times 0.63)
b	-489.7 (-19.279)	-455.0 (-17.913)	328.9 (12.949)	Hole ϕ 18 (0.71)	K, k	\pm 300.0 (\pm 11.811)	2815.0 (110.827)	417.2 (16.425)	Hole 18 \times 6 (0.71 \times 0.63)
C, c	\pm 410.0 (\pm 16.142)	547.0 (21.535)	190.2 (7.488)	Hole ϕ 16 (0.63)	M, m	\pm 482.7 (\pm 19.004)	2910.5 (114.586)	421.4 (16.591)	Hole ϕ 23 (0.91)
D, d	\pm 410.0 (\pm 16.142)	815.0 (32.087)	184.0 (7.244)	Hole ϕ 12 (0.47)	N, n	\pm 583.6 (\pm 22.976)	6.6 (0.261)	868.2 (34.181)	Hole ϕ 98 (3.86)

BRM-124

BODY ALIGNMENT

< SERVICE DATA AND SPECIFICATIONS (SDS)

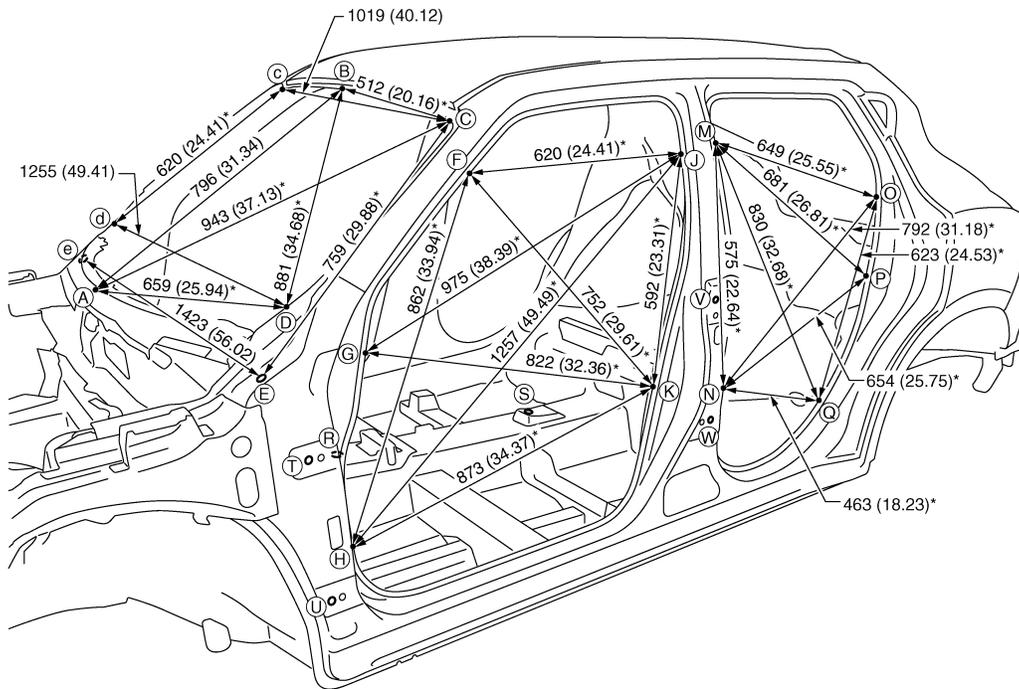
Points	Coordinates			Remarks	Points	Coordinates			Remarks
	X	Y	Z			X	Y	Z	
E, e	±410.0 (±16.142)	1173.0 (46.181)	170.1 (6.697)	Hole 14×2 (0.55×0.47)	O, o	±558.8 (±22.000)	2568.4 (101.118)	734.4 (28.913)	Hole φ20 (0.79)
F, f	±601.8 (±23.693)	2016.4 (79.386)	315.0 (12.402)	Hole φ15 (0.59)					

Passenger Compartment

INFOID:000000006482877

MEASUREMENT

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



JSKIA1996GB

Unit: mm (in)

«The others»

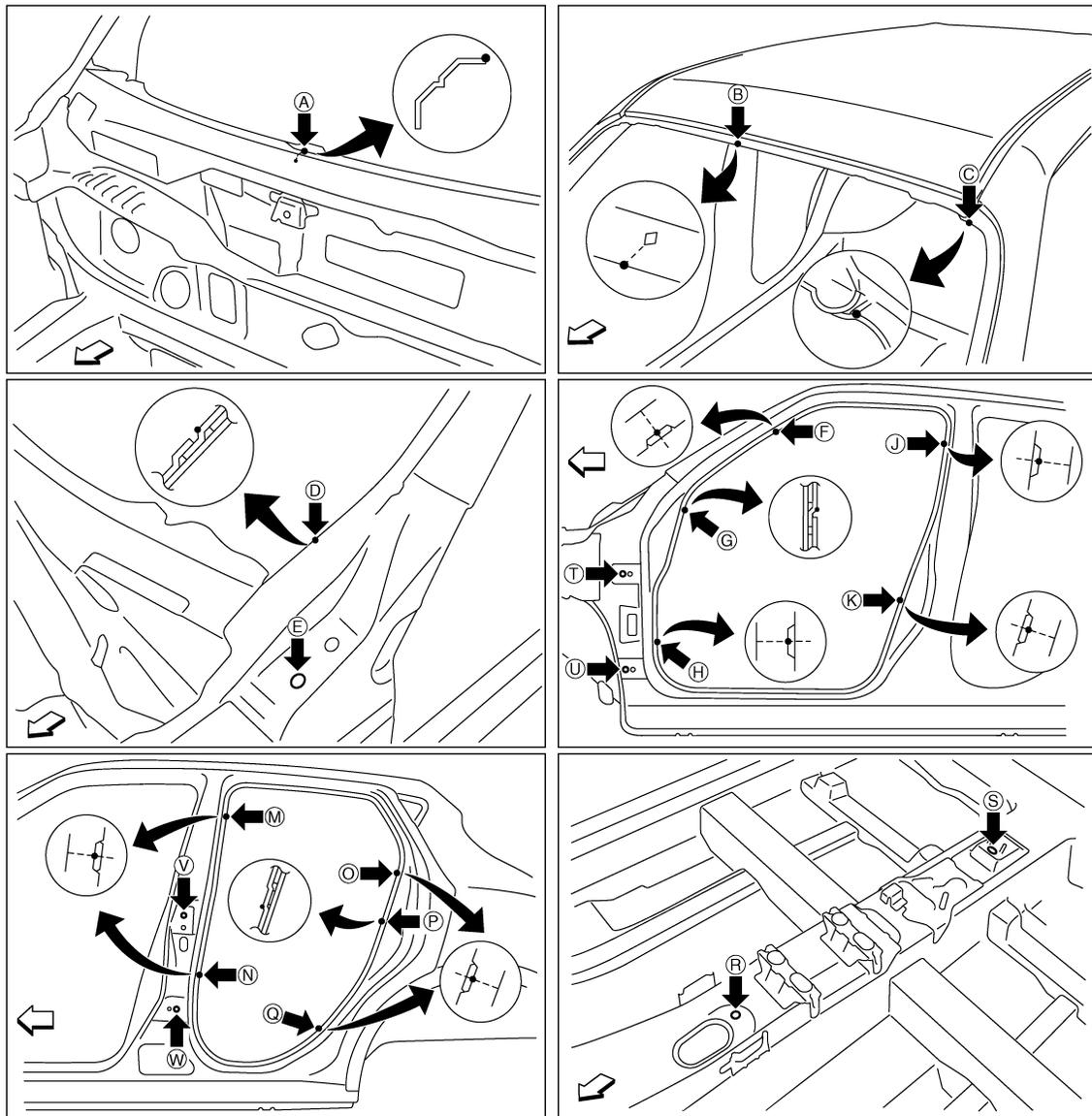
BODY ALIGNMENT

< SERVICE DATA AND SPECIFICATIONS (SDS)

Unit: mm (in)

Point	Dimension	Memo									
A - E	724 (28.50)*		H - h	1406 (55.35)		N - n	1423 (56.02)		R - J	1394 (54.88)*	
B - E	1028 (40.47)*		H - j	1829 (72.01)*		N - o	1585 (62.40)*		R - K	1072 (42.20)*	
C - d	1290 (50.79)*		H - k	1663 (65.47)*		N - p	1554 (61.18)*		S - M	1094 (43.07)*	
C - e	1423 (56.02)*		J - j	1257 (49.49)		N - q	1506 (59.29)*		S - N	786 (30.94)*	
F - f	1222 (48.11)		J - k	1463 (57.60)*		O - o	1326 (52.20)		S - O	1248 (49.13)*	
F - h	1569 (61.77)*		K - k	1425 (56.10)		O - q	1518 (59.76)*		S - P	1126 (44.33)*	
F - j	1386 (54.57)*		M - m	1248 (49.13)		P - p	1397 (55.00)		S - Q	905 (35.63)*	
F - k	1519 (59.80)*		M - n	1451 (57.13)*		Q - q	1444 (56.85)		T - V	1128 (44.41)*	
G - g	1359 (53.50)		M - o	1441 (56.73)*		R - F	1104 (43.46)*		T - W	1105 (43.50)*	
G - j	1630 (64.17)*		M - p	1486 (58.50)*		R - G	885 (34.84)*		U - V	1204 (47.40)*	
G - k	1616 (63.62)*		M - q	1578 (62.13)*		R - H	720 (28.35)*		U - W	1091 (42.95)*	

MEASUREMENT POINTS



JSKIA1997ZZ

BODY ALIGNMENT

< SERVICE DATA AND SPECIFICATIONS (SDS)

↶: Vehicle front

Unit: mm (in)

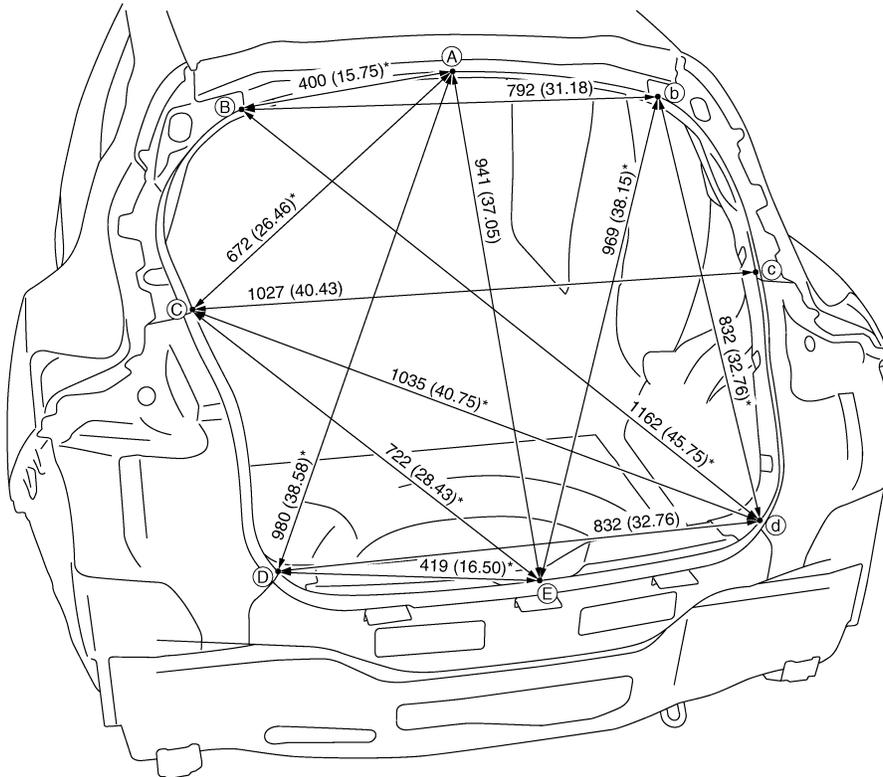
Point	Material	Point	Material
A	Cowl top flange end of center positioning mark	J, j, K, k, M, m, N, n	Center pillar indent
B	Roof flange end of center positioning mark	O, o, Q, q	Rear fender indent
C, c	Outer side body joggle	P, p	Outer rear wheelhouse joggle
D, d, G, g	Upper inner front pillar joggle	R	Trans control reinforcement hole center of center positioning mark $\phi 16$ (0.63)
E, e	Hood hinge installing hole center $\phi 12$ (0.47)	S	Parking brake reinforcement hole center of center positioning mark $\phi 12$ (0.47)
F, f, H, h	Front pillar indent	T, t, U, u, V, v, W, w	Door hinge installing hole center T, t, U, u, W, w: $\phi 12$ (0.47) V, v: $\phi 9$ (0.35)

Rear Body

INFOID:000000006482880

MEASUREMENT

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



JSKIA1998GB

Unit: mm (in)

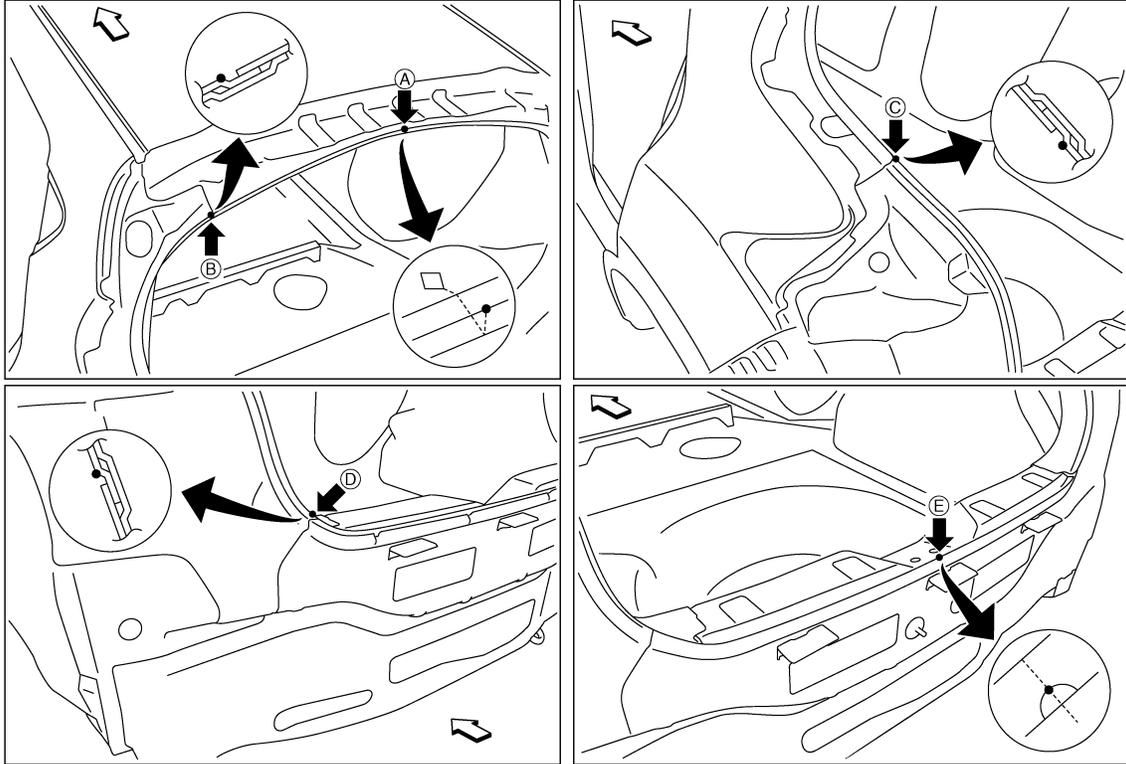
MEASUREMENT POINTS

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BODY ALIGNMENT

< SERVICE DATA AND SPECIFICATIONS (SDS)



JSKIA1999ZZ

↶: Vehicle front

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

LOCATION OF PLASTIC PARTS

< SERVICE DATA AND SPECIFICATIONS (SDS)

LOCATION OF PLASTIC PARTS

Precautions for Plastics

INFOID:000000006698764

Abbreviation	Material name	Heatresisting temperature °C (°F)	Resistance to gasoline and solvents	Other cautions
PE	Polyethylene	60 (140)	Gasoline and most solvents are harmless if applied for a very short time (wipe out quickly).	Flammable
ABS	Acrylonitrile Butadiene Styrene	80 (176)	Avoid gasoline and solvents.	—
EPM/EPDM	Ethylene Propylene (Diene) co-polymer	80 (176)	Gasoline and most solvents are harmless if applied for a very short time (wipe out quickly).	Flammable
PS	Polystyrene	80 (176)	Avoid solvents.	Flammable
PVC	Poly Vinyl Chloride	80 (176)	Gasoline and most solvents are harmless if applied for a very short time (wipe out quickly).	Poisonous gas is emitted when burned.
TPO	Thermoplastic Olefine	80 (176)	↑	Flammable
AAS	Acrylonitrile Acrylic Styrene	85 (185)	Avoid gasoline and solvents.	—
PMMA	Poly Methyl Methacrylate	85 (185)	↑	—
EVAC	Ethylene Vinyl Acetate	90 (194)	↑	—
PP	Polypropylene	90 (194)	Gasoline and most solvents are harmless if applied for a very short time (wipe out quickly).	Flammable, avoid 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.

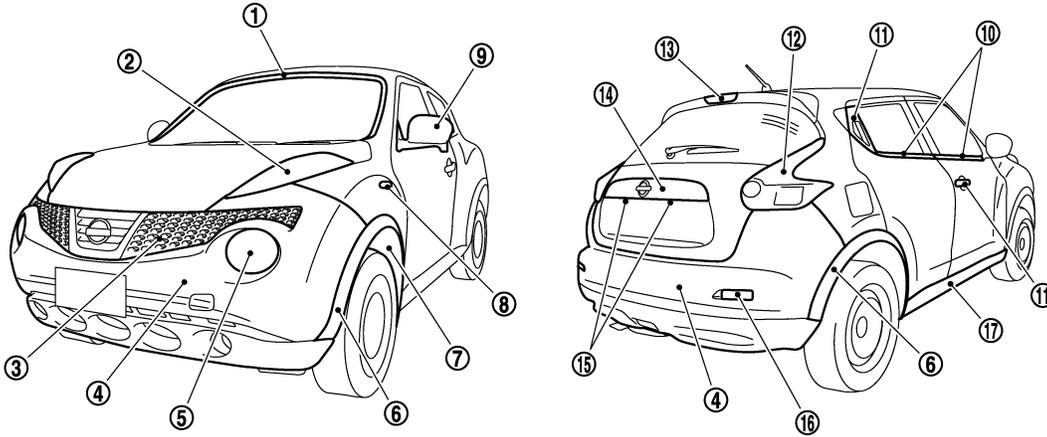
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LOCATION OF PLASTIC PARTS

< SERVICE DATA AND SPECIFICATIONS (SDS)

Location of Plastic Parts

INFOID:000000006482882

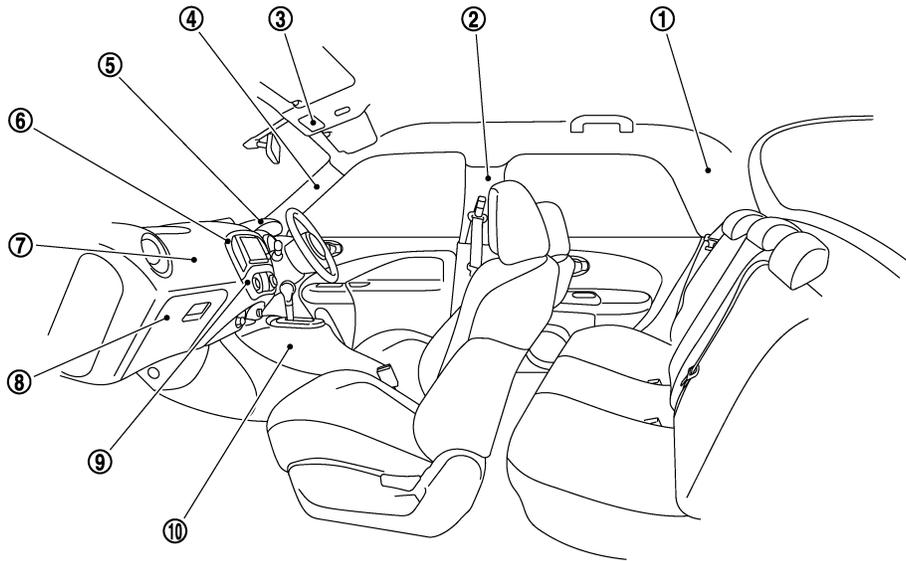


JSKIA2000ZZ

Component		Material	Component		Material		
1	Windshield molding	PVC	10	Door outside molding	PVC + Stainless		
2	Front combination lamp	Lens	PMMA	11	Door outside handle	Front	PC + PET
		Housing	PP			Rear	PC + PET + Glass fiber
3	Front grille	ABS	12	Rear combination lamp	Lens	PMMA	
4	Bumper fascia	PP + EPM			Housing	ASA	
5	Head lamp	Lens	PC	13	High mount stop lamp	Lens	PMMA
		Housing	PP			Housing	PC + ABS
6	Fillet molding	PP + EPM	14	Back door finisher	ABS		
7	Front fender protector	PP	15	License plate lamp (2WD Models)	Lens	PC	
8	Side turn signal lamp	Lens			PMMA	Housing	PBT
		Housing	PC + ABS	16	Reflex reflector	Lens	PC
9	Door outside mirror	Housing	ASA			17	Center mudguard
		Base	PBT + PET + Glass fiber				
			Cover	Material color	ASA		
Body color	ABS						

LOCATION OF PLASTIC PARTS

< SERVICE DATA AND SPECIFICATIONS (SDS)



JSKIA2001ZZ

Component		Material	Component		Material
1	Rear pillar finisher	PP	6	Cluster lid C	PC + ABS
2	Center pillar garnish	PP	7	Instrument panel	PP
3	Map lamp	Lens	8	Glove box	PP
		Housing			PA
4	Front pillar garnish	PP	9	Multi display unit	Lens
					PC
5	Cluster lid A	PP	10	Center console	PP
					Finisher
					PC + ABS

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