

SECTION **BRM**
 BODY REPAIR

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FOR USA AND CANADA

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BODY EXTERIOR PAINT COLOR

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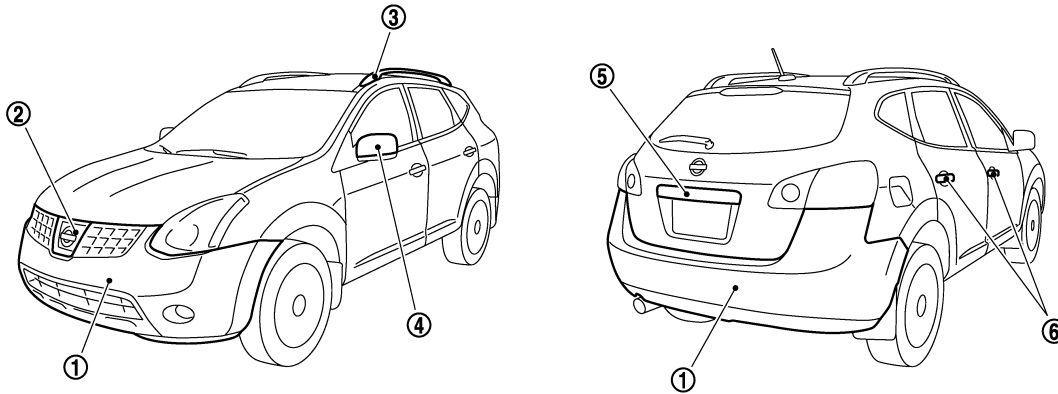
[FOR USA AND CANADA]

VEHICLE INFORMATION

BODY EXTERIOR PAINT COLOR

Body Exterior Paint Color

INFOID:000000008282468



JSKIA0435GB

Component	Color code	BFAF	BK23	BK51	BKH3	BLAE	BNAH	BQAB	BRAQ		
	Description	Light Blue	Silver	Gray	Black	Dark Purple	Red	White	Dark Blue		
	Paint type ^{Note}	2TM	2M	2M	2S	2RP	2PM	3P	2M		
	Hard clear coat	-	-	-	×	×	×	-	×		
1	Bumper fascia	Body color	BFAF	BK23	BK51	BKH3	BLAE	BNAH	BQAB	BRAQ	
2	Front bumper molding	Chromium plate	Cr	Cr	Cr	Cr	Cr	Cr	Cr	Cr	
3	Roof rack	Silver	G08-2	G08-2	G08-2	G08-2	G08-2	G08-2	G08-2	G08-2	
4	Door outside mirror	Cover	Body color	BFAF	BK23	BK51	BKH3	BLAE	BNAH	BQAB	BRAQ
5	Back door finisher	Body color	BFAF	BK23	BK51	BKH3	BLAE	BNAH	BQAB	BRAQ	
6	Door outside handle	Body color	BFAF	BK23	BK51	BKH3	BLAE	BNAH	BQAB	BRAQ	

NOTE:

- 2M: 2-Coat metallic
- 2S: 2-Coat solid
- 2PM: 2-Coat pearl metallic
- 2RP: 2-Coat multi flex pearl
- 2TM: 2-Coat micro titanium metallic
- 3P: 3-Coat pearl

PRECAUTION

REPAIRING HIGH STRENGTH STEEL

High Strength Steel (HSS)

INFOID:000000008282469

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

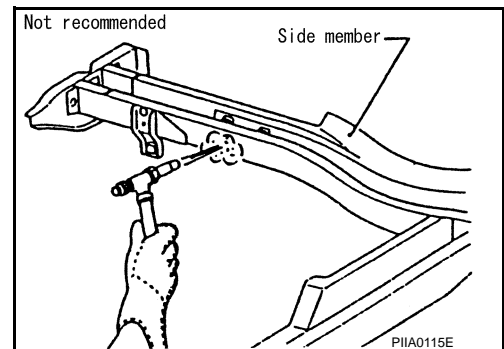
Accordingly, precautions in repairing automotive bodies made of high strength steel are described below:

Tensile strength	Major applicable parts
370 - 780 MPa	<ul style="list-style-type: none"> • Side dash • Front suspension mounting bracket • Rear side member assembly • Other reinforcements • Inner center front bumper reinforcement
980 - 1350 MPa	<ul style="list-style-type: none"> • Front side member • Front side member closing plate assembly • Lower dash crossmember reinforcement • Lower dash crossmember assembly • Front side member rear extension (Front floor component part) • Inner sill • Center pillar reinforcement (Lower center pillar brace component part) • Inner center pillar

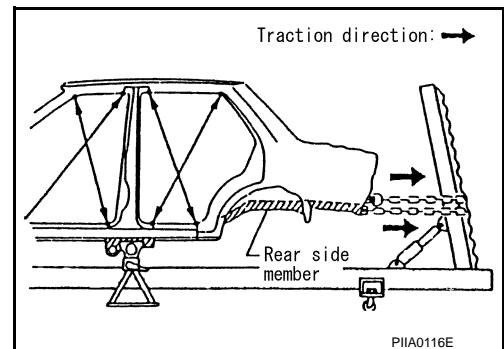
Read the following precautions when repairing HSS:

1. Additional points to consider

- The repair of reinforcements (such as side members) by heating is not recommended since it may weaken the component. When heating is unavoidable, do not 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 portions of the body. In this case, increase the number of measuring points, and carefully pull the HSS panel.



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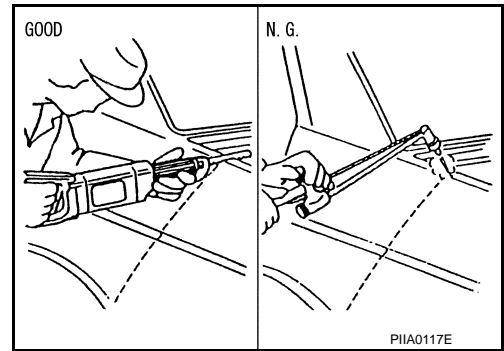
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REPAIRING HIGH STRENGTH STEEL

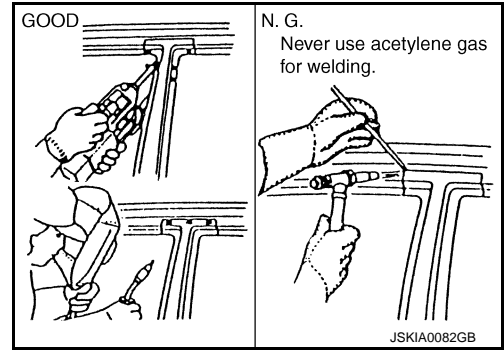
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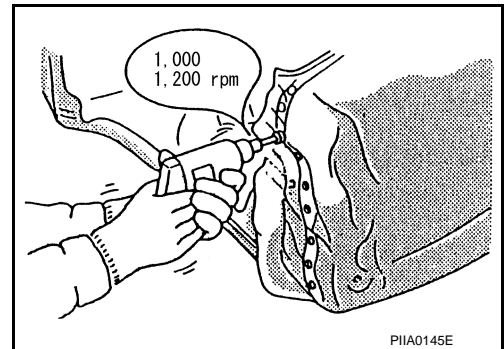
- When cutting HSS panels, avoid gas (torch) cutting if possible. Instead, use a saw to avoid weakening surrounding areas due to heat. If gas (torch) cutting is unavoidable, allow a minimum margin of 50 mm (1.97 in).



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



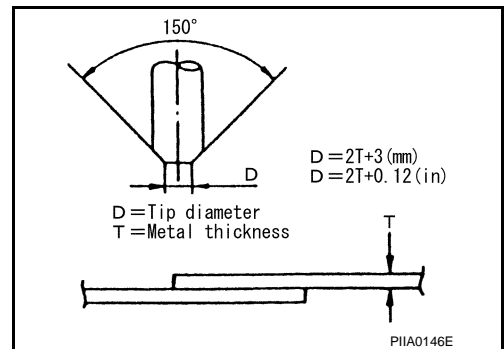
- The spot weld on HSS panels is harder than that of an ordinary steel panel. Therefore, when cutting spot welds on a HSS panel, use a low speed high torque drill (1,000 to 1,200 rpm) to increase drill bit durability and facilitate the operation.



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.

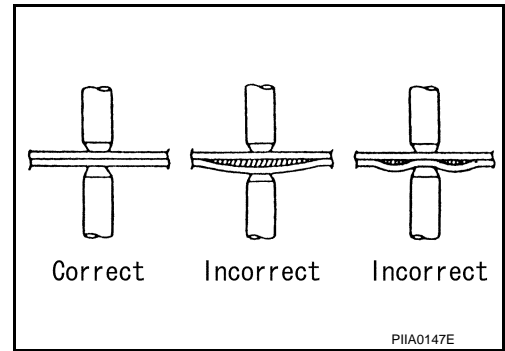


REPAIRING HIGH STRENGTH STEEL

[FOR USA AND CANADA]

< PRECAUTION >

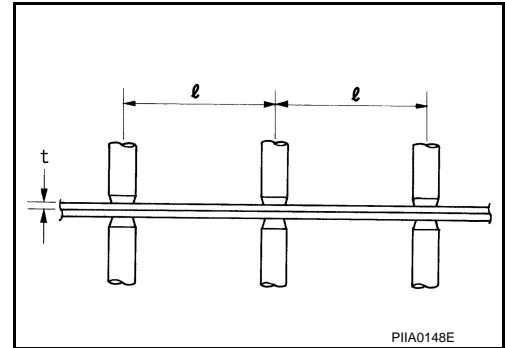
- The panel surfaces must fit flush to each other, leaving no gaps.



- Follow the specifications for the proper welding pitch.

Unit: mm (in)

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



Handling of Ultra High Strength Steel Plate Parts

INFOID:0000000008282470

PROHIBITION OF CUT AND CONNECTION

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

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PREPARATION

REPAIRING MATERIAL

Foam Repair

INFOID:000000008282471

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.

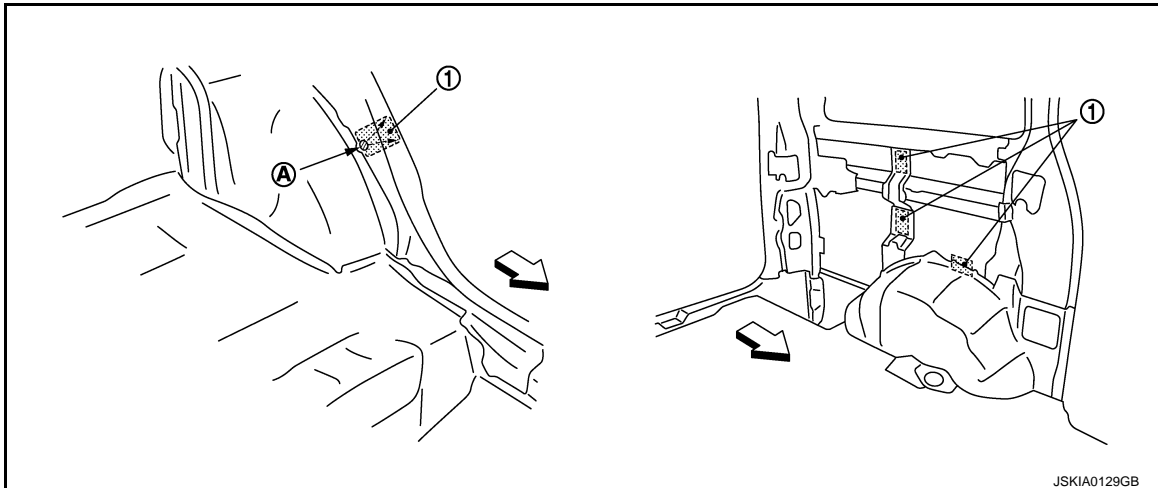
<Urethane foam for foaming agent>

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.

REPAIRING MATERIAL

< PREPARATION >

[FOR USA AND CANADA]

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

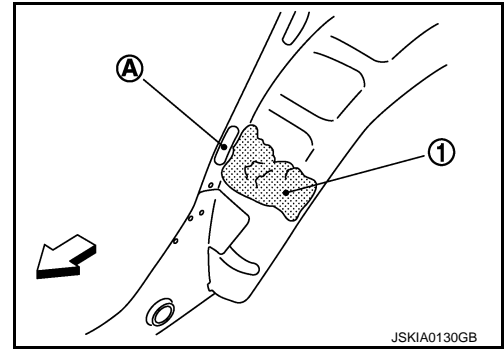
NOTE:

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

- d. Install service part.

NOTE:

Refer to label for information on working times.



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BODY COMPONENT PARTS

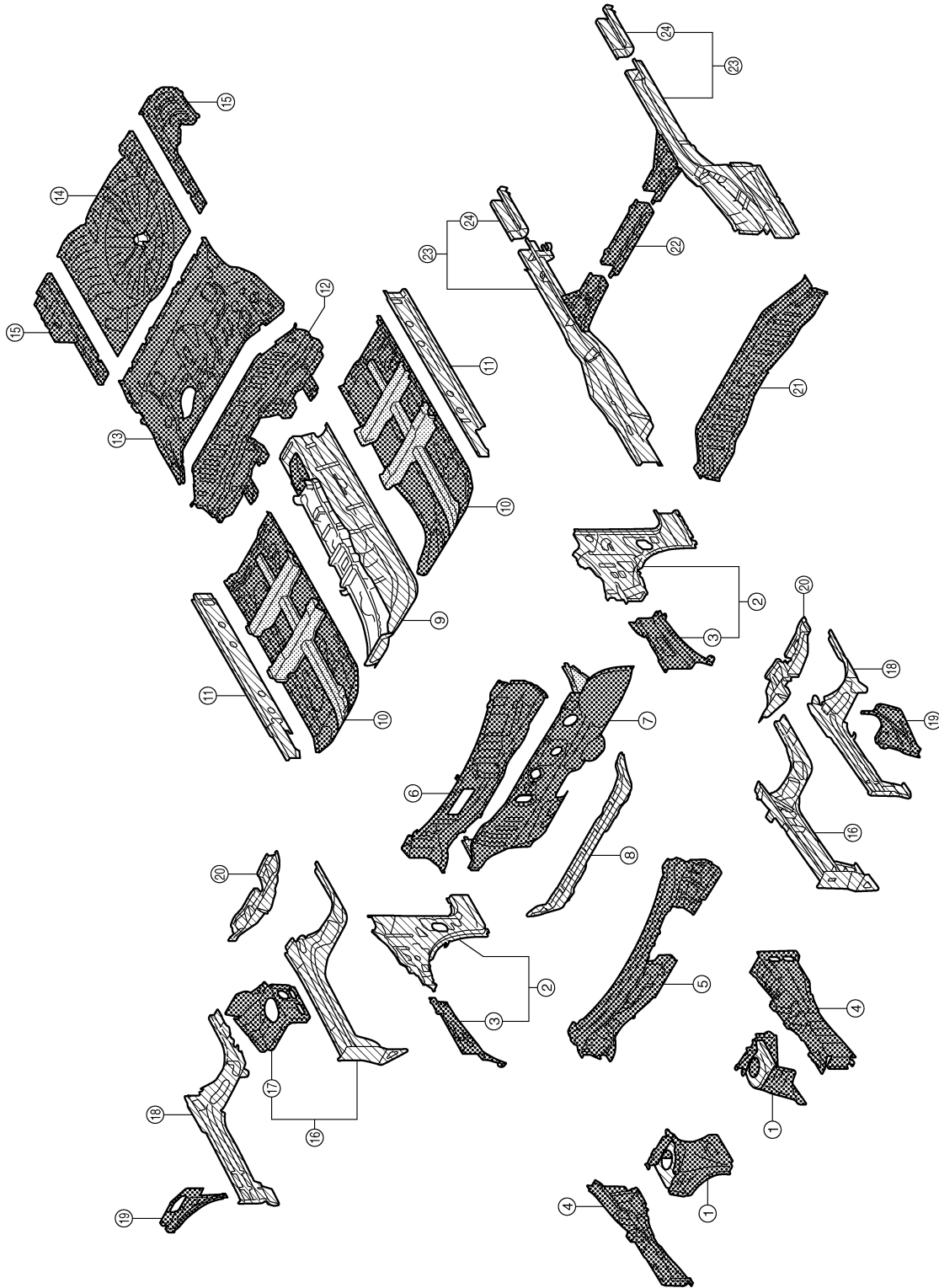
< PREPARATION >

[FOR USA AND CANADA]

BODY COMPONENT PARTS

Underbody Component Parts

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- | | | |
|----------------------------|------------------------------------|-----------------------|
| 1. Front strut housing | 2. Side dash | 3. Upper hoodledge |
| 4. Hoodledge reinforcement | 5. Cowl top | 6. Upper dash |
| 7. Lower dash | 8. Lower dash crossmember assembly | 9. Center front floor |


BODY COMPONENT PARTS


[FOR USA AND CANADA]

< PREPARATION >

- | | | | |
|--------------------------------------|---------------------------------------|--|---|
| 10. Front floor | 11. Inner sill | 12. Rear floor front extension | |
| 13. Rear floor front | 14. Rear floor rear | 15. Rear floor side | A |
| 16. Front side member | 17. Engine mounting member bracket | 18. Front side member closing plate assembly | |
| 19. Hoodledge connector assembly | 20. Front suspension mounting bracket | 21. Rear seat crossmember | B |
| 22. Center rear crossmember assembly | 23. Rear side member assembly | 24. Rear side member extension | |

 : Both sided anti-corrosive precoated steel portions

 : High strength steel (HSS) portions

 : Both sided anti-corrosive steel and HSS portions

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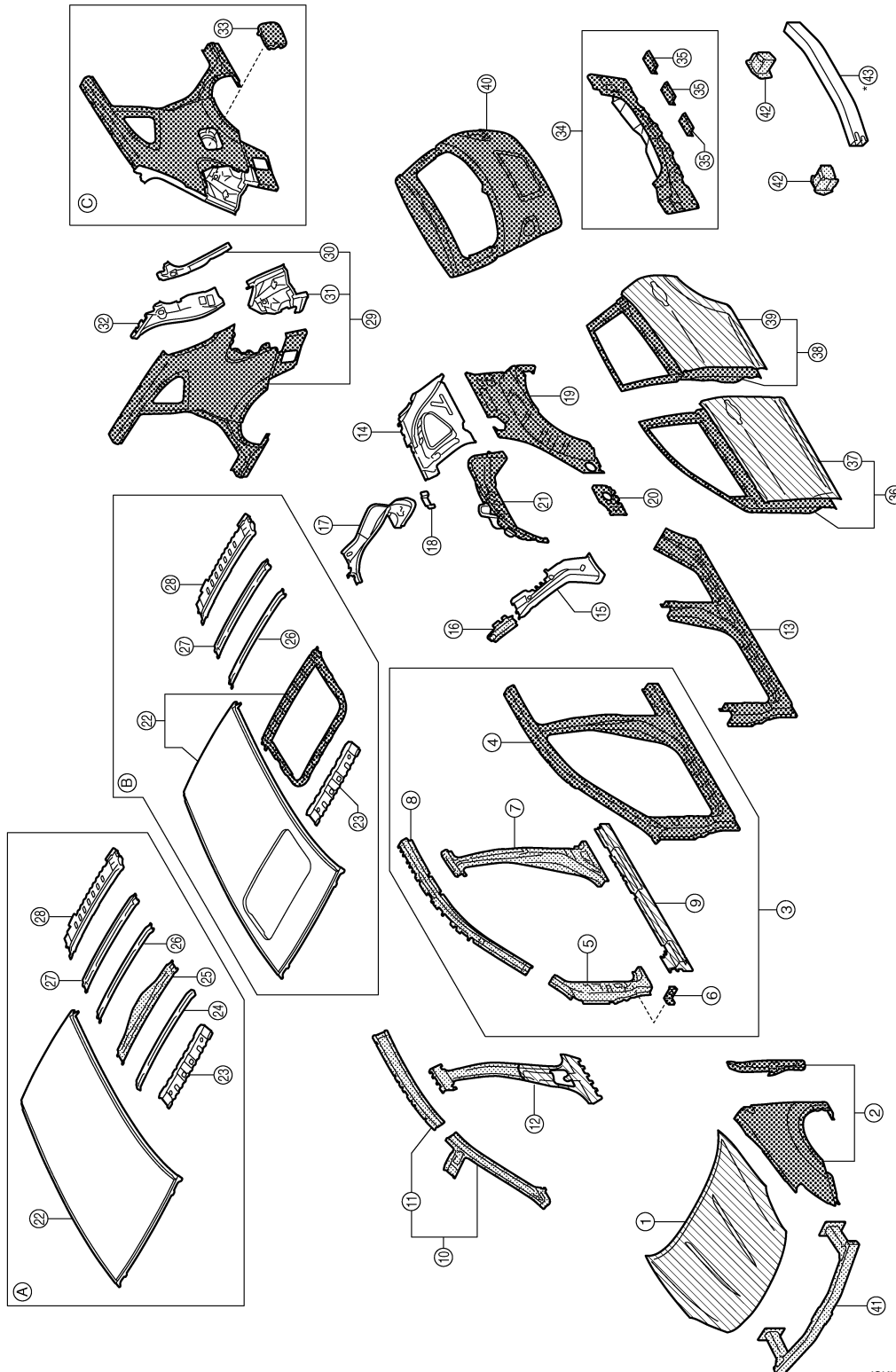
BODY COMPONENT PARTS

< PREPARATION >

[FOR USA AND CANADA]

Body Component Parts

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- | | | |
|--|---|--|
| 1. Hood | 2. Front fender (RH & LH) | 3. Side body assembly (RH & LH) |
| 4. Outer front side body (RH & LH) | 5. Lower front pillar hinge brace (RH & LH) | 6. Front fender bracket assembly (RH & LH) |
| 7. Lower center pillar brace (RH & LH) | 8. Outer front pillar reinforcement (RH & LH) | 9. Outer sill reinforcement (RH & LH) |


BODY COMPONENT PARTS


[FOR USA AND CANADA]

< PREPARATION >

- | | | | |
|--|--|---|---|
| 10. Upper inner front pillar (RH & LH) | 11. Inner side roof rail (RH & LH) | 12. Inner center pillar (RH & LH) | A |
| 13. Outer sill (RH & LH) | 14. Inner rear pillar (RH & LH) | 15. Inner rear pillar reinforcement (RH & LH) | |
| 16. Rear pillar seat belt anchor (RH & LH) | 17. Back pillar main assembly (RH & LH) | 18. Trim mounting bracket (RH & LH) | |
| 19. Outer rear wheelhouse (RH & LH) | 20. Outer rear wheelhouse extension (RH & LH) | 21. Inner rear wheelhouse (RH & LH) | |
| 22. Roof | 23. Front roof rail | 24. Roof bow No. 1 | C |
| 25. Roof bow No. 2 | 26. Roof bow No. 3 | 27. Roof bow No. 4 | |
| 28. Rear roof rail | 29. Rear fender assembly (RH & LH) | 30. Outer back pillar (RH & LH) | D |
| 31. Rear combination lamp base (RH & LH) | 32. Back pillar reinforcement assembly (RH & LH) | 33. Fuel filler lid | |
| 34. Rear panel assembly | 35. Upper rear bumper retainer | 36. Front door assembly (RH & LH) | |
| 37. Outer front door panel (RH & LH) | 38. Rear door assembly (RH & LH) | 39. Outer rear door panel (RH & LH) | E |
| 40. Back door | 41. Front bumper reinforcement assembly | 42. Rear bumper stay | |
| 43. Inner center rear bumper reinforcement | | | F |
| A. Standard roof | B. With sunroof | C. RH side | |

 : Both sided anti-corrosive precoated steel portions

 : High strength steel (HSS) portions

 : Both sided anti-corrosive steel and HSS portions

* : Aluminum portion

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REMOVAL AND INSTALLATION

CORROSION PROTECTION

Description

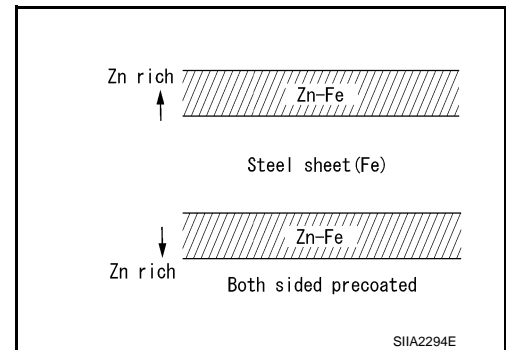
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To provide improved corrosion prevention, the following anti-corrosive measures have been implemented in NISSAN production plants. When repairing or replacing body panels, it is necessary to use the same anti-corrosive measures.

ANTI-CORROSIVE PRECOATED STEEL (GALVANNEALED STEEL)

To improve repairability and corrosion resistance, a new type of 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.



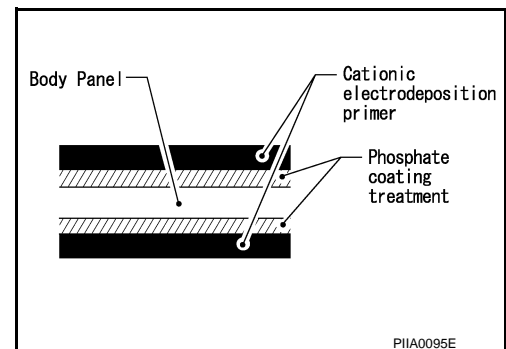
Nissan Genuine Service Parts are fabricated from galvannealed steel. Therefore, it is recommended that GENUINE NISSAN PARTS or equivalent be used for panel replacement to maintain the anti-corrosive performance built into the vehicle at the factory.

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:000000008282475

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.

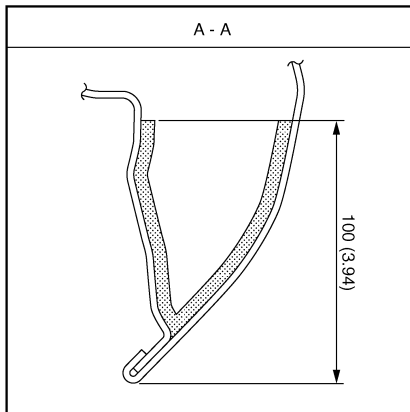
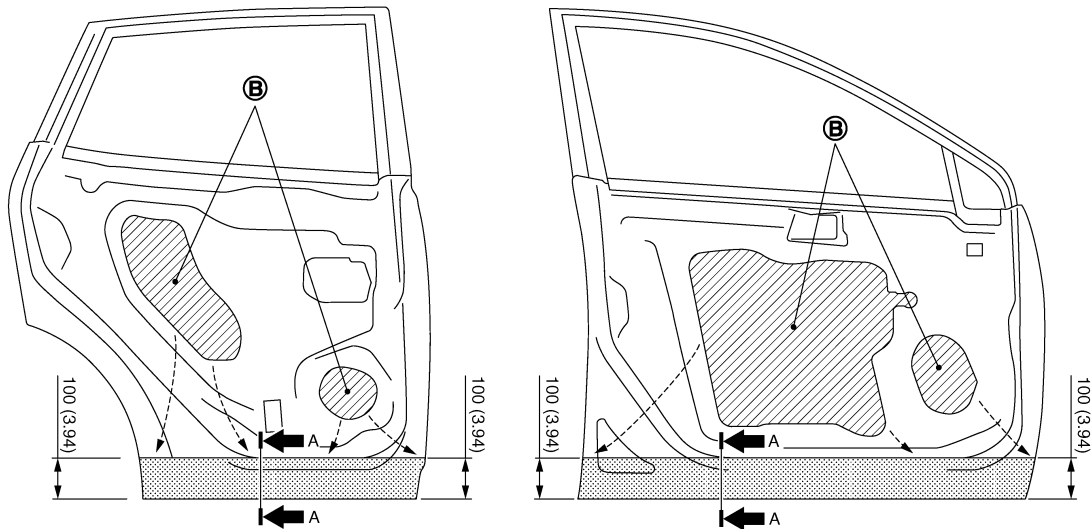
DOOR

CORROSION PROTECTION


< REMOVAL AND INSTALLATION >

[FOR USA AND CANADA]

Unit : mm (in)



A. Nozzle insert hole

 : Anti-corrosive wax coated portions

Undercoating

INFOID:0000000008282476

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 preventive, soundproof, vibration-proof, shock-resistant, adhesive, and durable.

PRECAUTIONS IN UNDERCOATING

1. Do not apply undercoating to any place unless specified (such as the areas above the muffler and three way catalyst which are subjected to heat).

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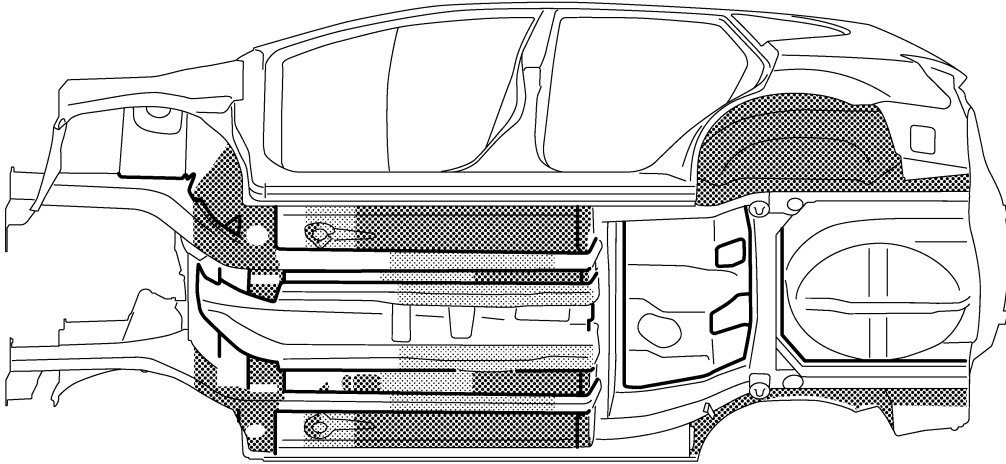
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CORROSION PROTECTION

< REMOVAL AND INSTALLATION >


[FOR USA AND CANADA]

2. Do not undercoat the exhaust pipe or other parts which become hot.
3. Do not undercoat rotating parts.
4. Apply bitumen wax after applying undercoating.
5. After putting seal on the vehicle, put undercoating on it.



JSKIA0441GB

 Undercoated portions (for all destination)

 Undercoated portions (for Mexico)

 Sealed portions

Stone Guard Coat

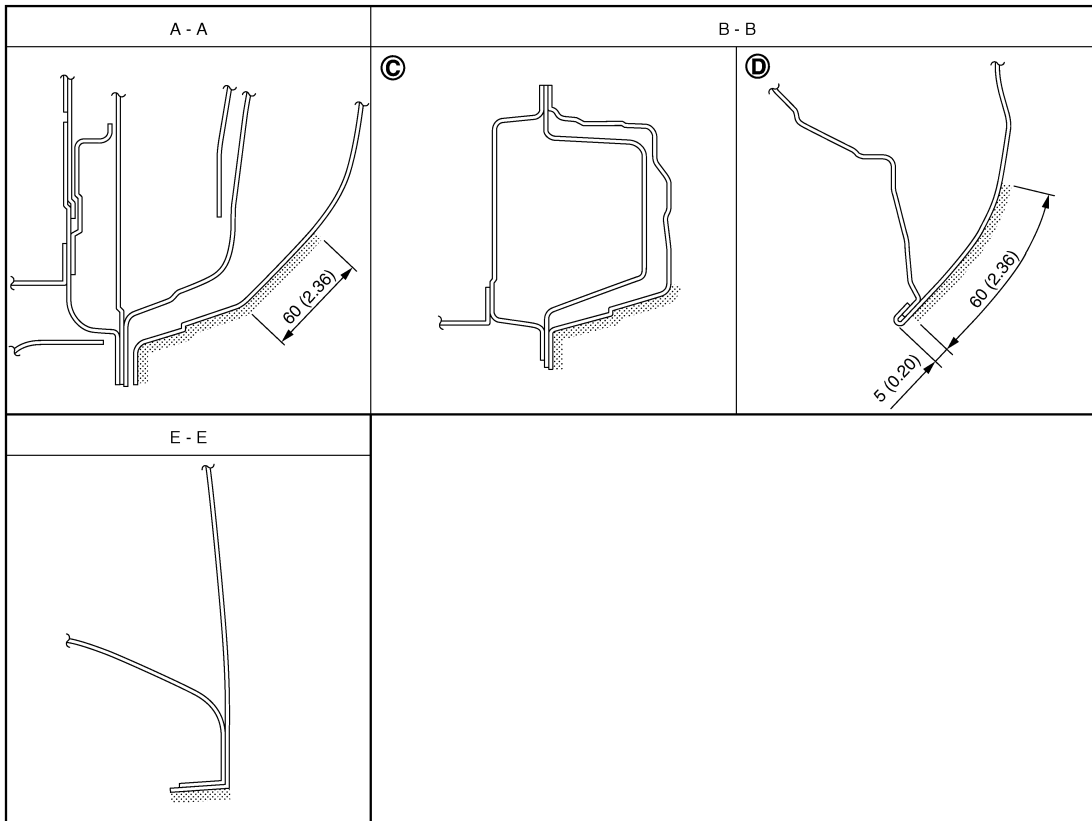
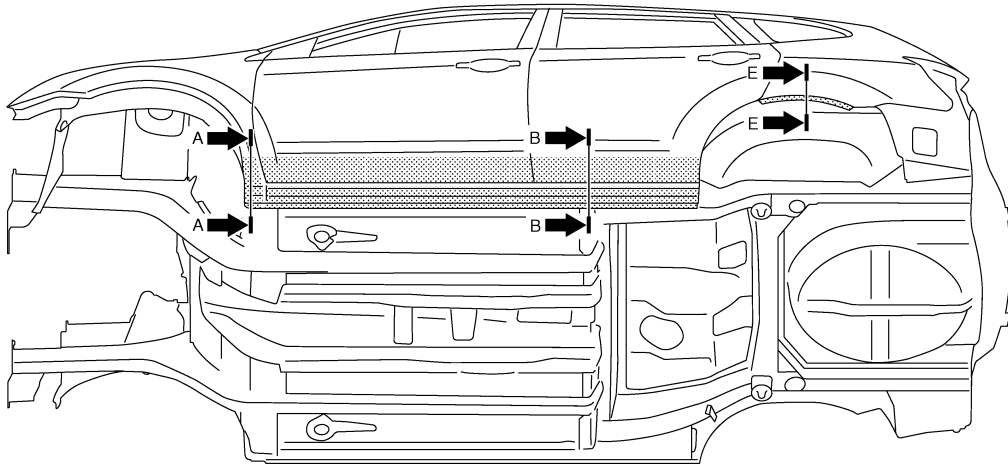
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To prevent damage caused by stones, the lower outer body panel (fender, door, etc.) have an additional layer of Stone Guard Coating over the ED primer coating. When replacing or repairing these panels, apply Stone Guard coating to the same portions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

CORROSION PROTECTION

< REMOVAL AND INSTALLATION >

[FOR USA AND CANADA]



C. Outer sill portion

D. Outer door portion

Unit: mm (in)

Stone guard coated portions

Body Sealing

INFOID:000000008282478

The following figure shows the areas which are sealed at the factory. Sealant which has been 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.

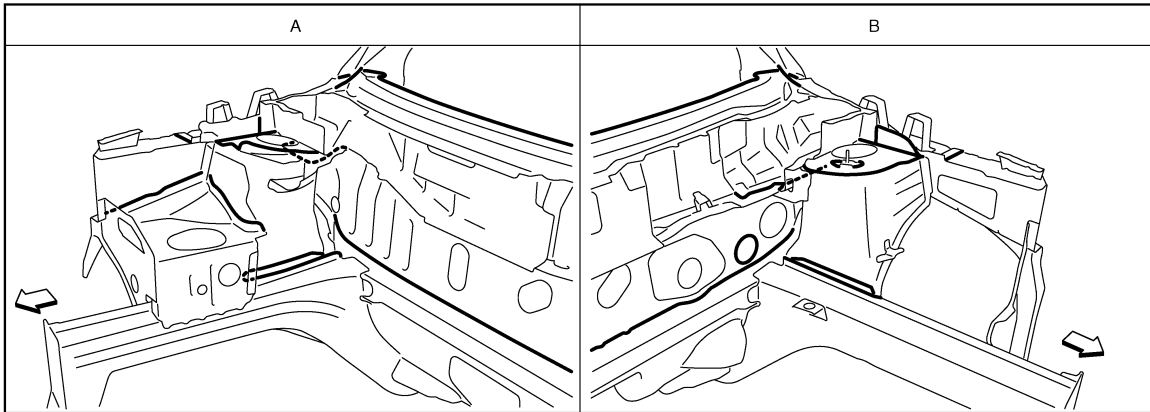
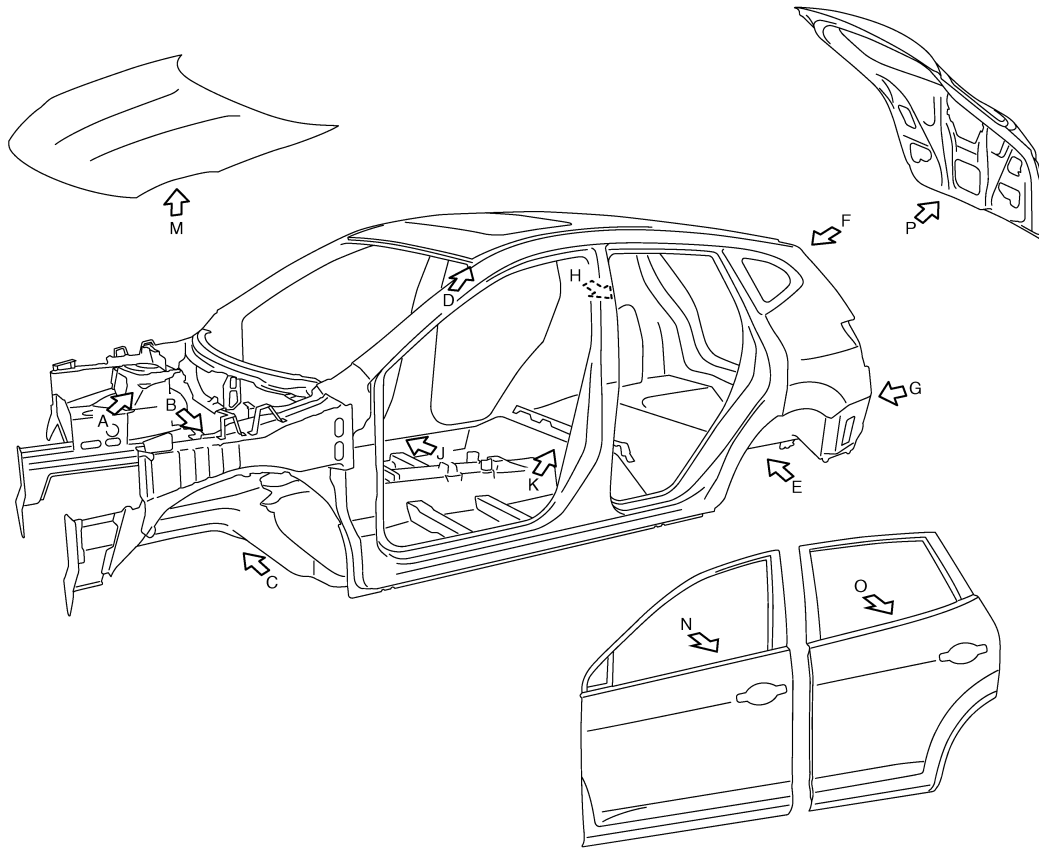
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CORROSION PROTECTION

< REMOVAL AND INSTALLATION >

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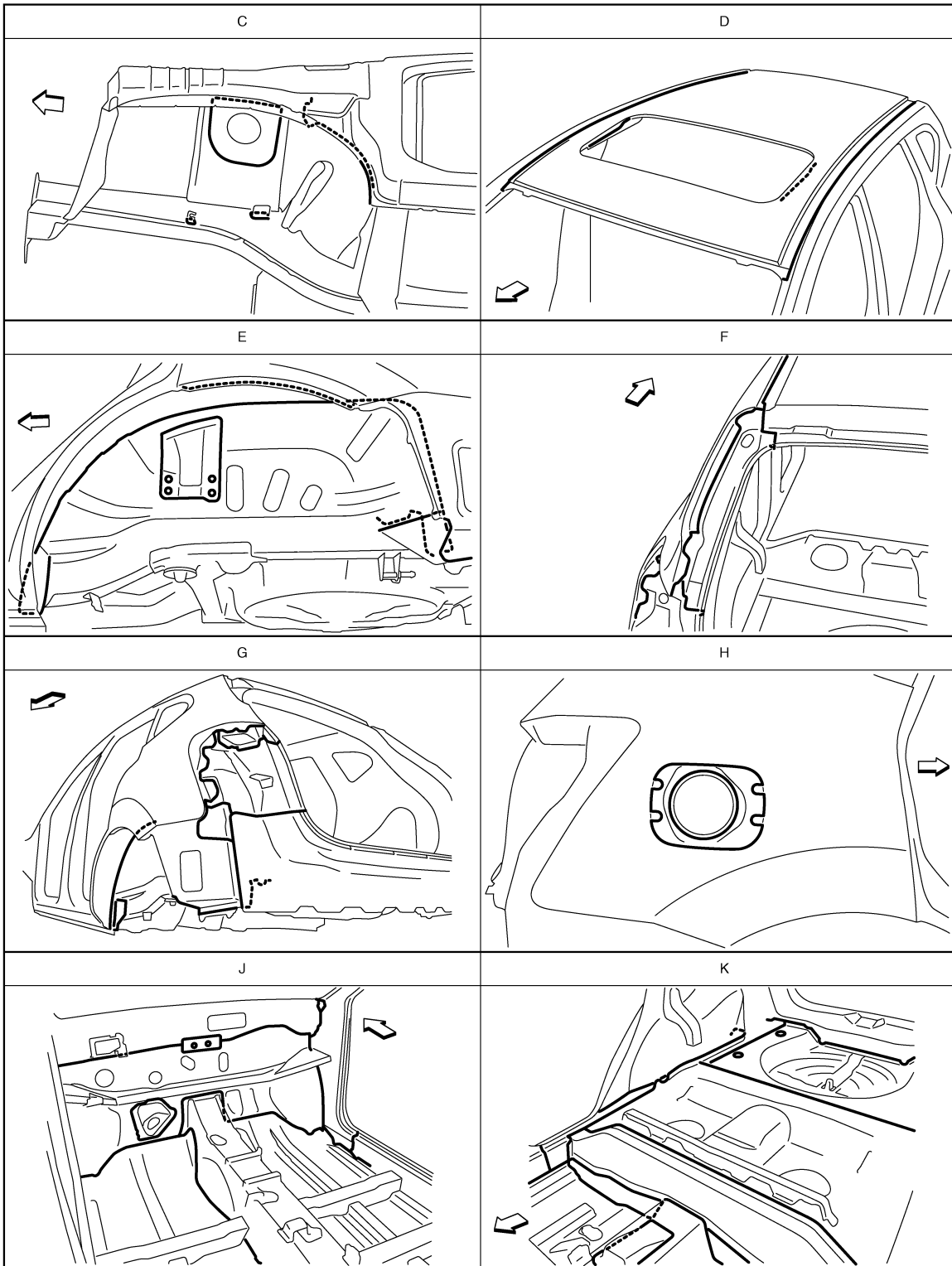
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←: Vehicle front
—: Sealed portions

CORROSION PROTECTION

< REMOVAL AND INSTALLATION >

[FOR USA AND CANADA]



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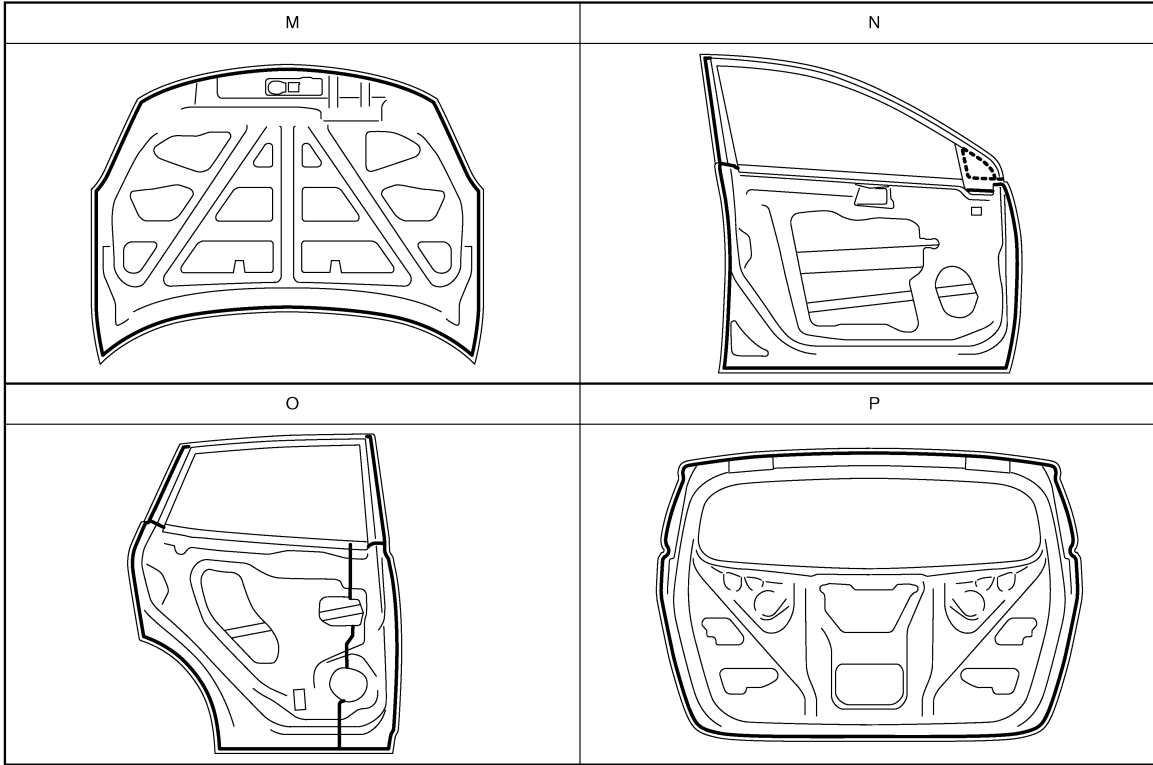
↔: Vehicle front
- - -: Sealed portions

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CORROSION PROTECTION

< REMOVAL AND INSTALLATION >

[FOR USA AND CANADA]



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←: Vehicle front

■: Sealed portions

BODY CONSTRUCTION

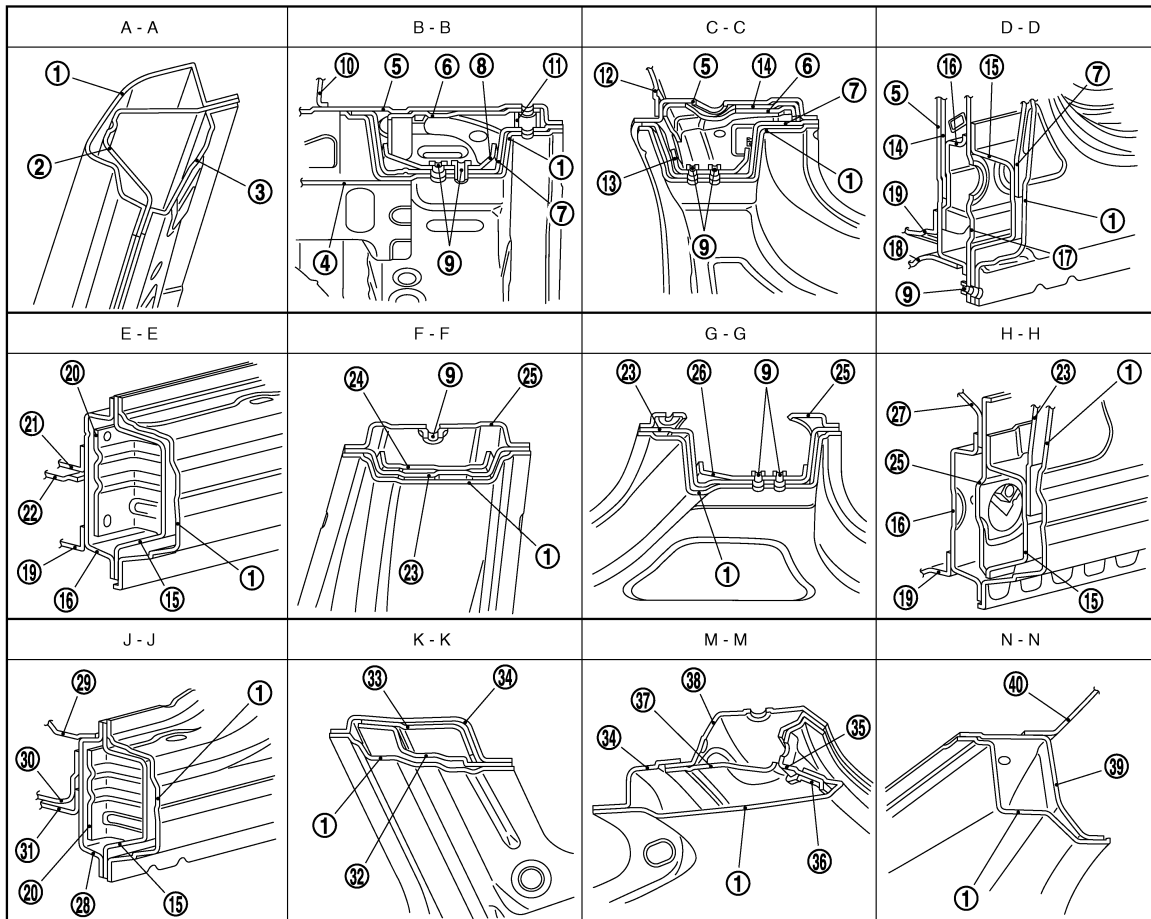
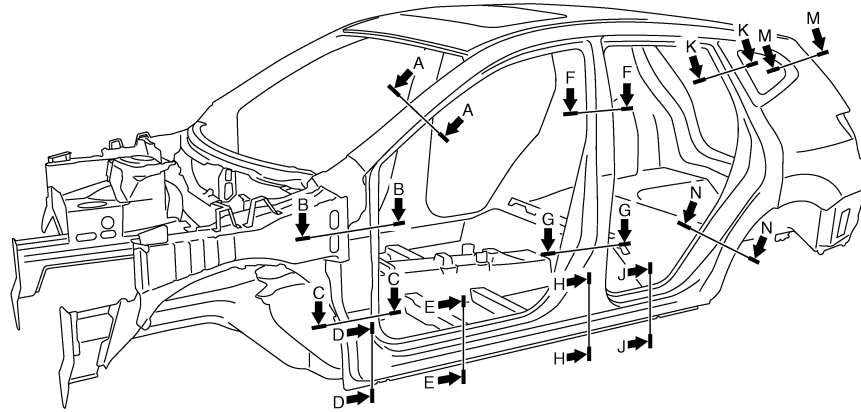
< REMOVAL AND INSTALLATION >

[FOR USA AND CANADA]

BODY CONSTRUCTION

Body Construction

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

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BODY CONSTRUCTION

< REMOVAL AND INSTALLATION >

[FOR USA AND CANADA]

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| 10. Upper dash | 11. Upper steering member bracket | 12. Lower dash |
| 13. Lower hinge plate | 14. Side dash reinforcement | 15. Outer sill reinforcement |
| 16. Inner sill | 17. Lower front pillar reinforcement | 18. Front outrigger |
| 19. Front floor | 20. Outer sill brace | 21. 2nd crossmember |
| 22. 2nd crossmember reinforcement | 23. Center pillar hinge brace | 24. Center pillar reinforcement |
| 25. Inner center pillar | 26. Lower center pillar hinge brace | 27. Seat belt anchor |
| 28. Inner sill extension | 29. Rear seat crossmember | 30. Rear floor front extension |
| 31. Rear side member | 32. Inner rear pillar reinforcement | 33. Rear pillar seat belt anchor |
| 34. Inner rear pillar | 35. Back pillar main | 36. Back door stay reinforcement |
| 37. Upper back pillar reinforcement | 38. Rear roof rail brace | 39. Outer rear wheelhouse |
| 40. Inner rear wheelhouse | | |

Rear Fender Hemming Process

INFOID:000000008262480

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:

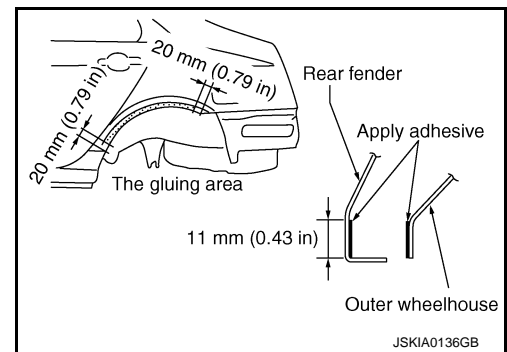
Ensure that the area that is to be glued around the outer wheelhouse is undamaged or defaced.

PROCEDURE OF THE HEMMING PROCESS

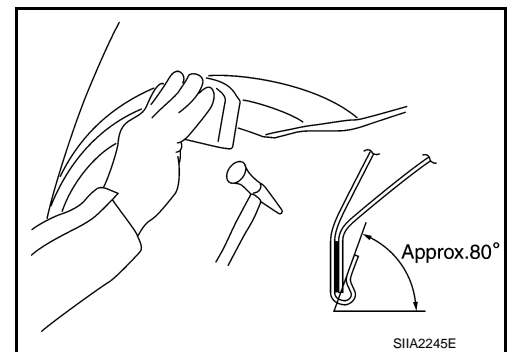
- Peel off old bonding material on the surface of the outer wheelhouse and clean thoroughly.
- Peel off a primer coat in the specified area where new adhesive is to be applied on rear fender (the replacing part).
- Apply new adhesive to both specified areas of the outer wheelhouse and rear fender.

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

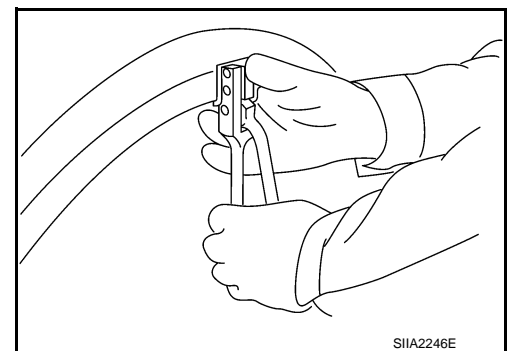
- Attach rear fender to the body of the car, and weld the required part except the hemming part.



- 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.

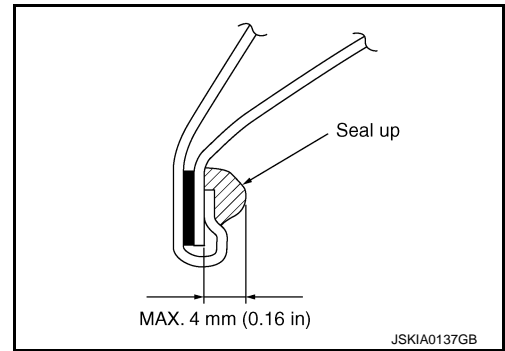


BODY CONSTRUCTION

< REMOVAL AND INSTALLATION >

[FOR USA AND CANADA]

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



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REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >

[FOR USA AND CANADA]

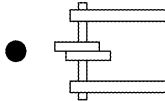
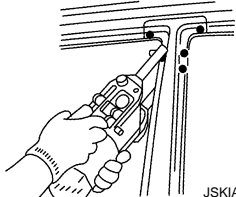
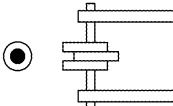
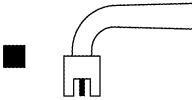

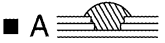
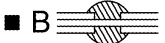
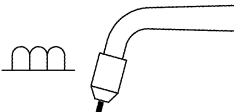
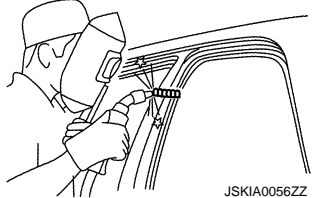
REPLACEMENT OPERATIONS

Description

INFOID:000000008282481

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

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

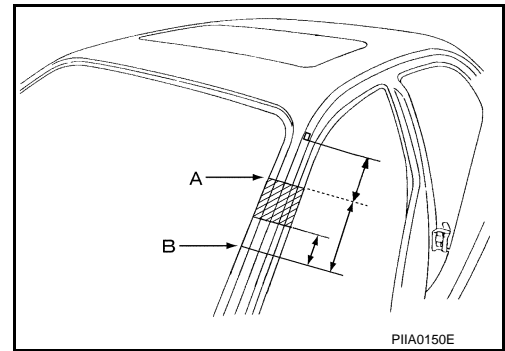
Symbol marks	Description	
 <p>JSKIA0049ZZ</p>	2-spot welds	 <p>JSKIA0053ZZ</p>
 <p>JSKIA0050ZZ</p>	3-spot welds	
 <p>JSKIA0051ZZ</p>	MIG plug weld	 <p>JSKIA0054ZZ</p> <p>For 3 panels plug weld method</p> <p>■ A </p> <p>■ B </p> <p>JSKIA0055ZZ</p>
 <p>JSKIA0052ZZ</p>	MIG seam weld / Point weld	 <p>JSKIA0056ZZ</p>

REPLACEMENT OPERATIONS

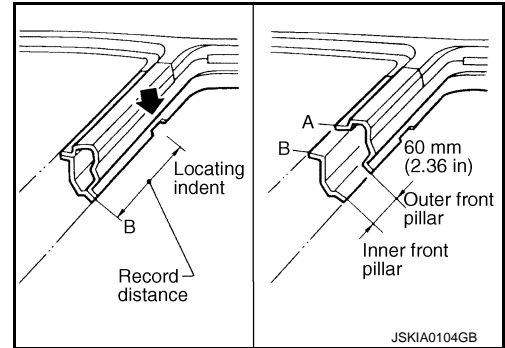
< REMOVAL AND INSTALLATION >

[FOR USA AND CANADA]

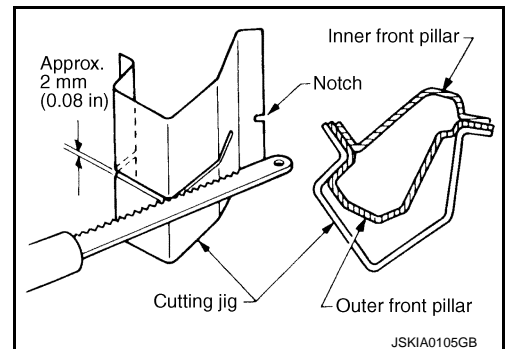
- Front pillar butt joint can be determined anywhere within shaded area as shown in the figure. The best location for the butt joint is at position A due to the construction of the vehicle. Refer to the front pillar section.



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

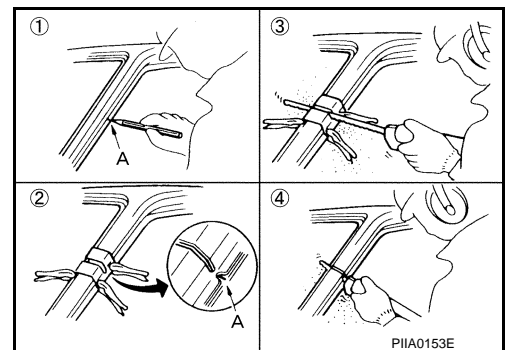


- Prepare a cutting jig to make outer pillar easier to cut. Also, this will permit service part to be accurately cut at joint position.



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

1. Mark cutting lines.
A: Cut position of outer pillar
B: Cut position of inner pillar
2. Align cutting line with notch on jig. Clamp jig to pillar.
3. Cut outer pillar along groove of jig (at position A).
4. Remove jig and cut remaining portions.
5. Cut inner pillar at position B in same manner.



REAR FENDER HEMMING PROCESS

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

Procedure of the hemming process

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REPLACEMENT OPERATIONS

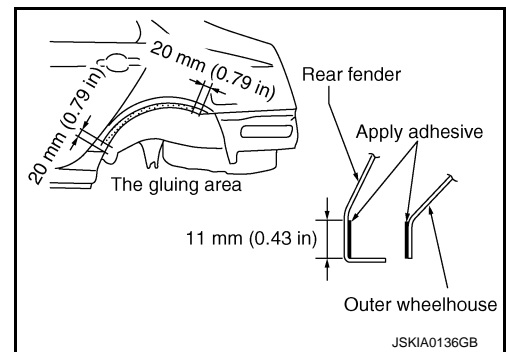
< REMOVAL AND INSTALLATION >

[FOR USA AND CANADA]

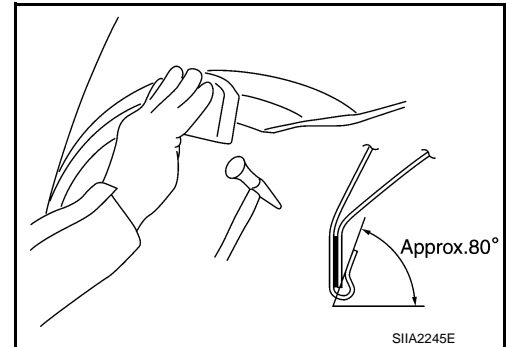
- Peel off old bonding material on the surface of outer wheelhouse and clean thoroughly.
- Peel off a primer coat in the specified area where new adhesive is to be applied on rear fender (the replacing part).
- Apply new adhesive to both specified areas of outer wheelhouse and rear fender.

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

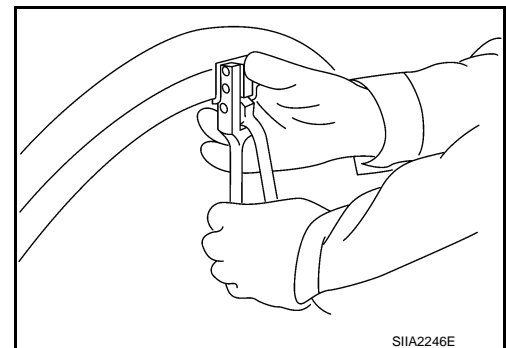
- Attach rear fender to the body of the car, and weld the required part except the hemming part.



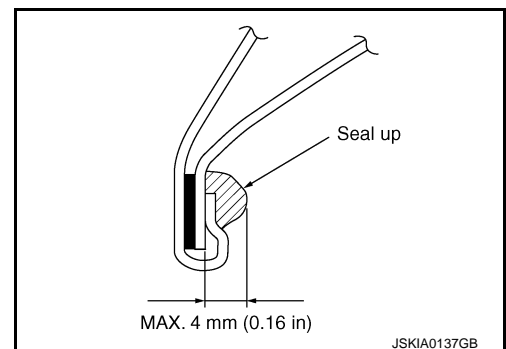
- Bend the welded part starting from the center of the wheel arch gradually with a hammer and a dolly. (Also hem the end of the flange.)
- Hemming with a hammer is conducted to an approximate angle of 80 degrees.



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



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



FOAM REPAIR

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

Urethane foam applications

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

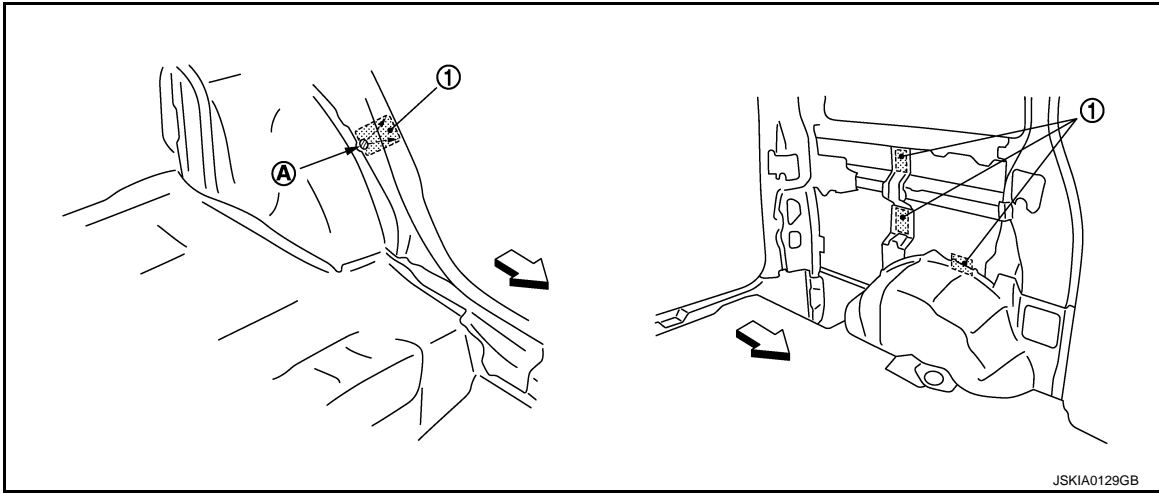
1. Fill procedures after installation of service part.
 - Remove foam material remaining on vehicle side.
 - Clean area in which foam was removed.
 - Install service part.

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >

[FOR USA AND CANADA]

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



1. Urethane foam
 - A. Nozzle insert hole
- ↔ : Vehicle front

2. Fill procedures before installation of service part.
 - Remove foam material remaining on vehicle side.
 - Clean area in which foam was removed.
 - Fill foam material on wheelhouse outer side.

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

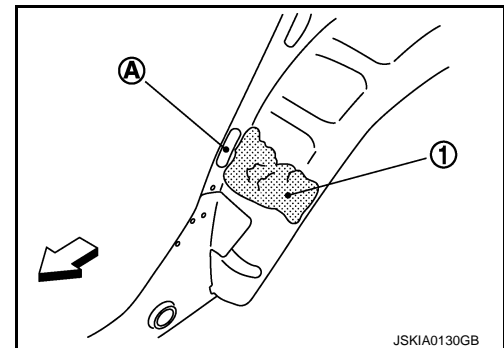
NOTE:

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

- Install service part.

NOTE:

Refer to label for information on working times.



INFOID:000000008282482

Hoodledge

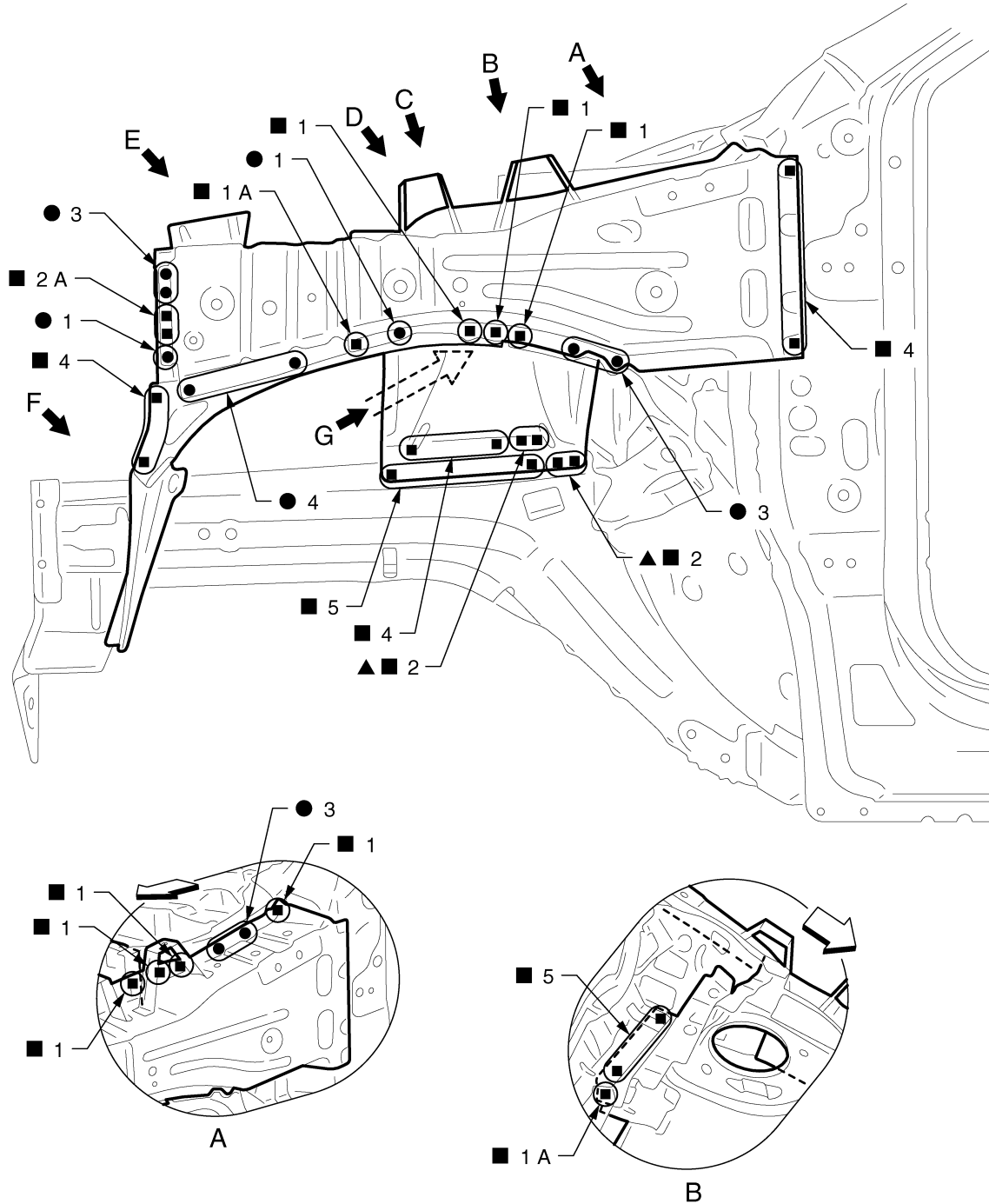
Remove the hoodledge reinforcement gusset (reusable).

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REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >

[FOR USA AND CANADA]



JSKIA0404GB

↔ : Vehicle front

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

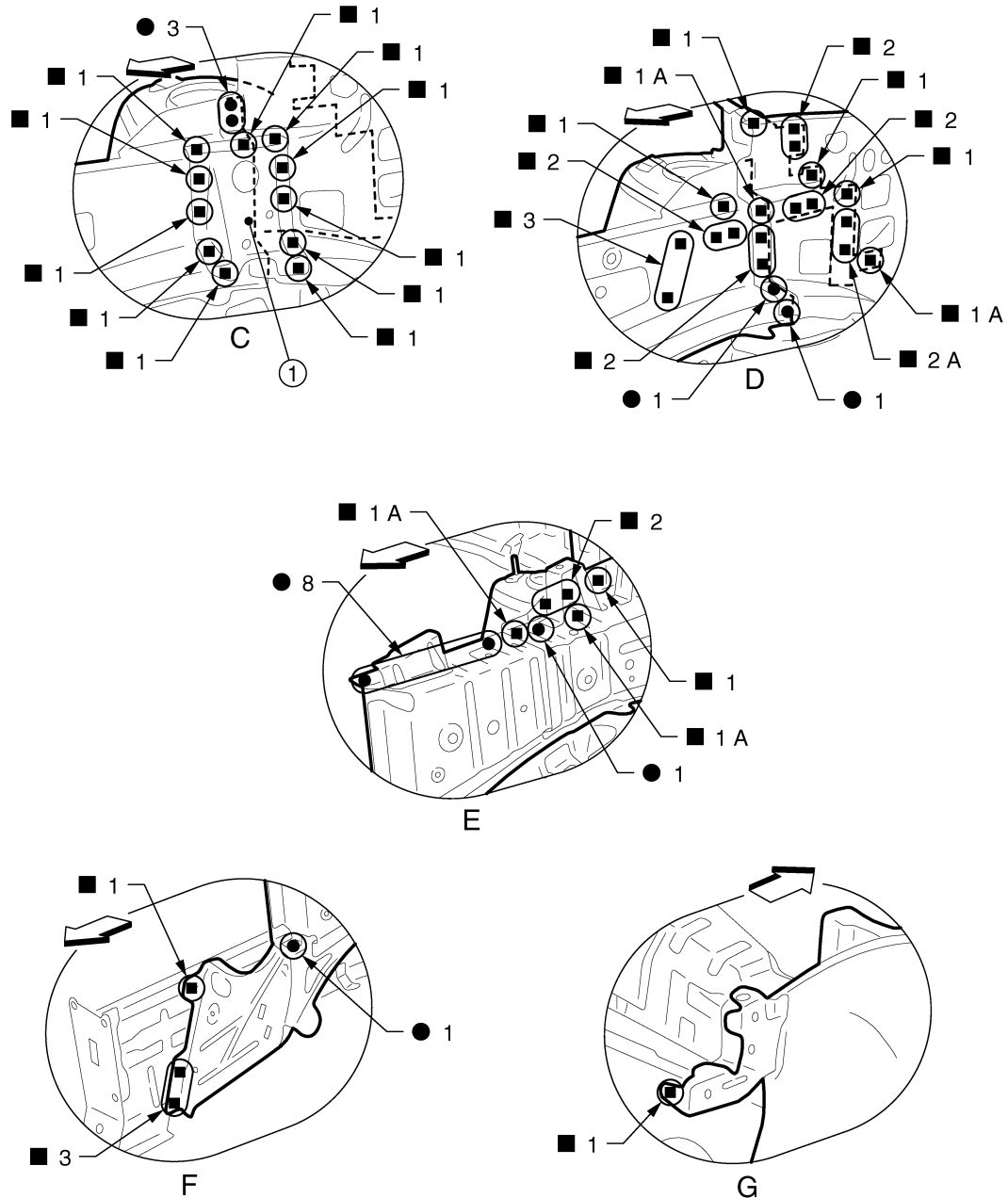
Replacement parts

- Upper hoodledge (LH)
- Hoodledge reinforcement (LH)
- Front strut housing (LH)
- Hoodledge connector assembly (LH)

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >

[FOR USA AND CANADA]



- 1. Hoodledge reinforcement gusset
- ↔ : Vehicle front

View C: Before installing hoodledge reinforcement

View D: Before installing hoodledge reinforcement and hoodledge reinforcement gusset

Hoodledge (Partial Replacement)

INFOID:000000008282483

Remove the hoodledge reinforcement gusset (reusable).

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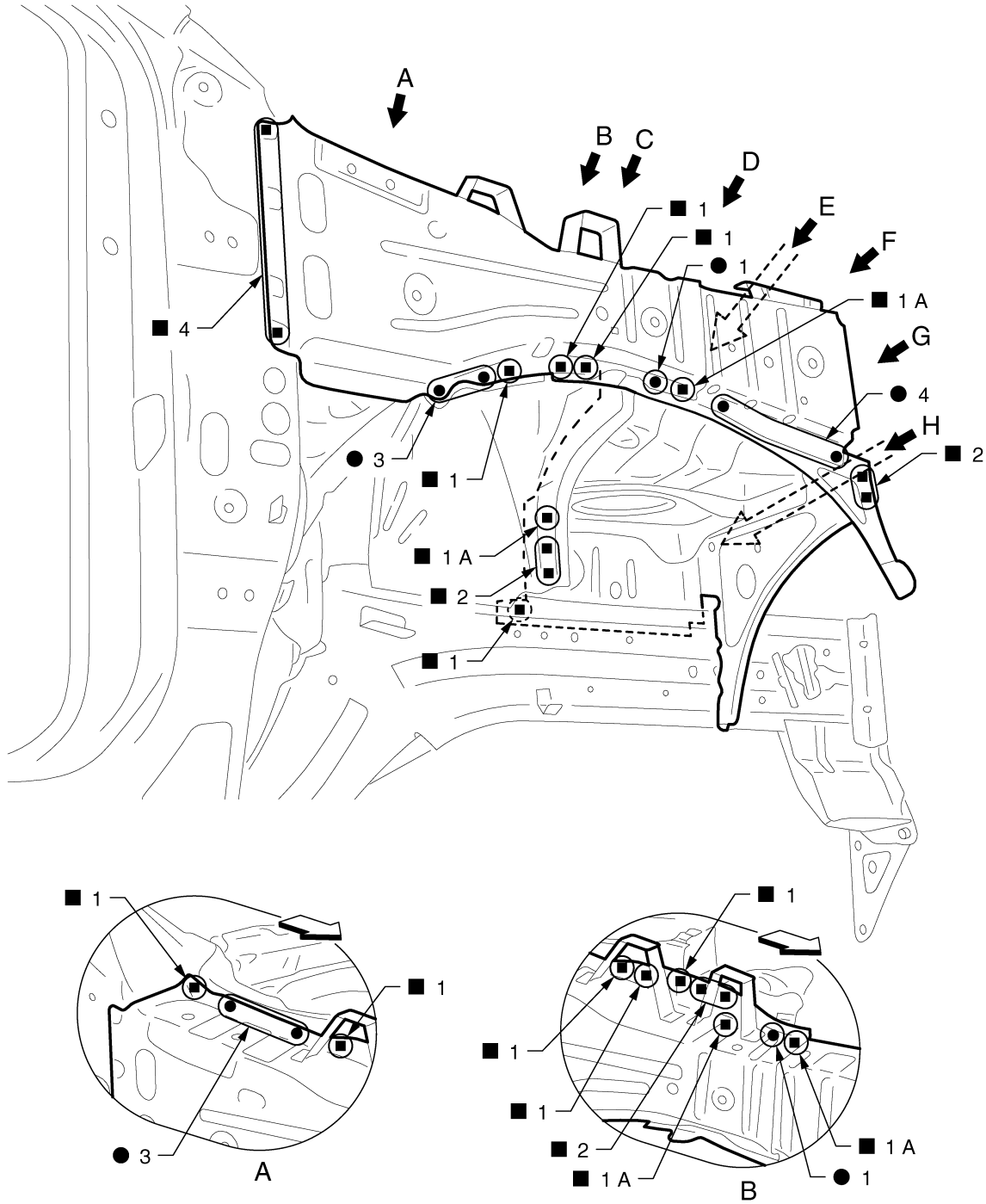
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REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >

[FOR USA AND CANADA]



JSKIA0406GB

↔ : Vehicle front

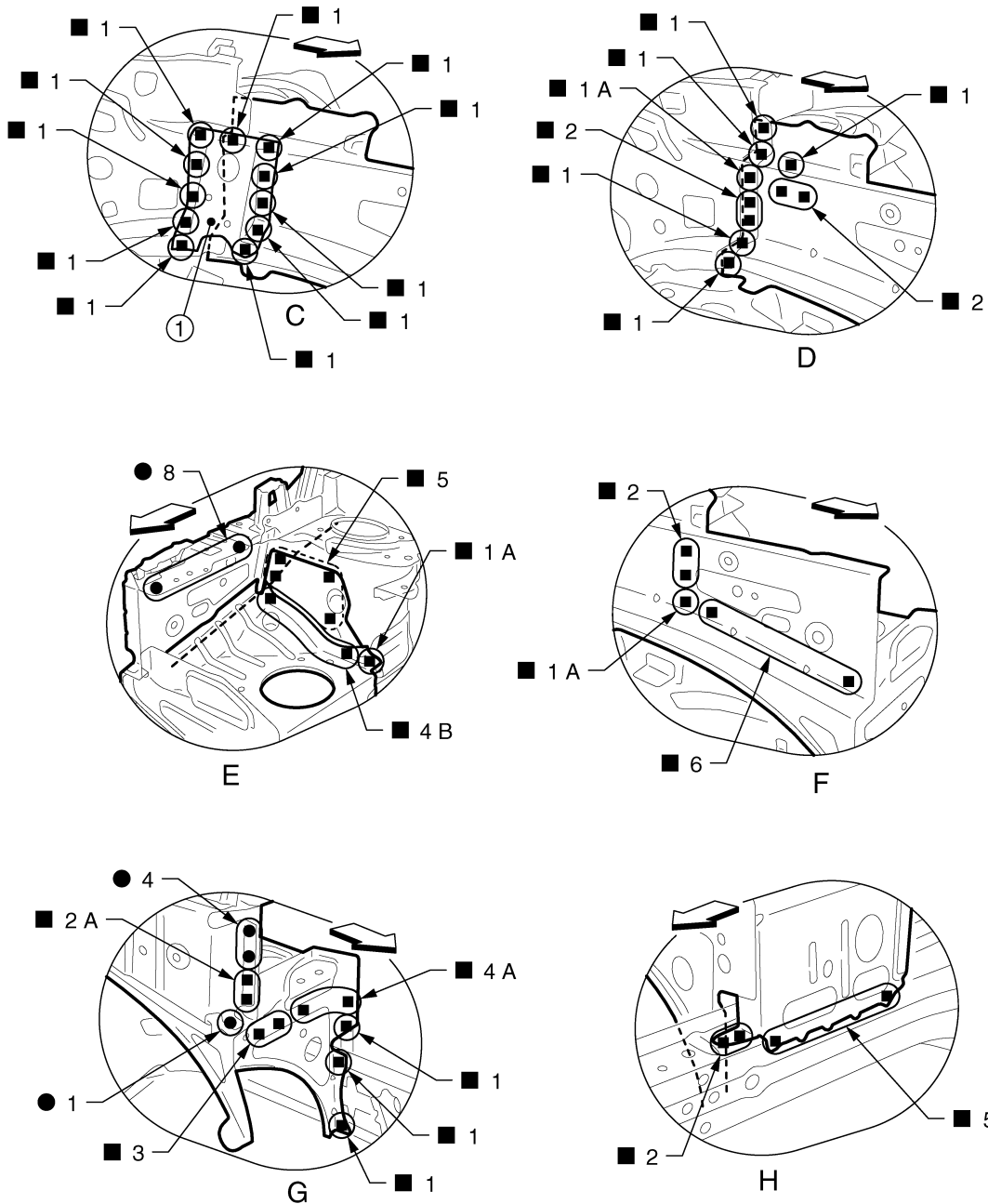
Replacement parts

- Upper hoodedge (RH)
- Hoodedge reinforcement (RH)
- Hoodedge connector assembly (RH)
- Engine mounting member bracket

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >

[FOR USA AND CANADA]



JSKIA0407GB

- 1. Hoodledge reinforcement gusset
- ← : Vehicle front

View C, F: Before installing hoodledge reinforcement
 View D: Before installing hoodledge reinforcement and hoodledge reinforcement gusset

Front Side Member

Work after hoodledge has been removed.

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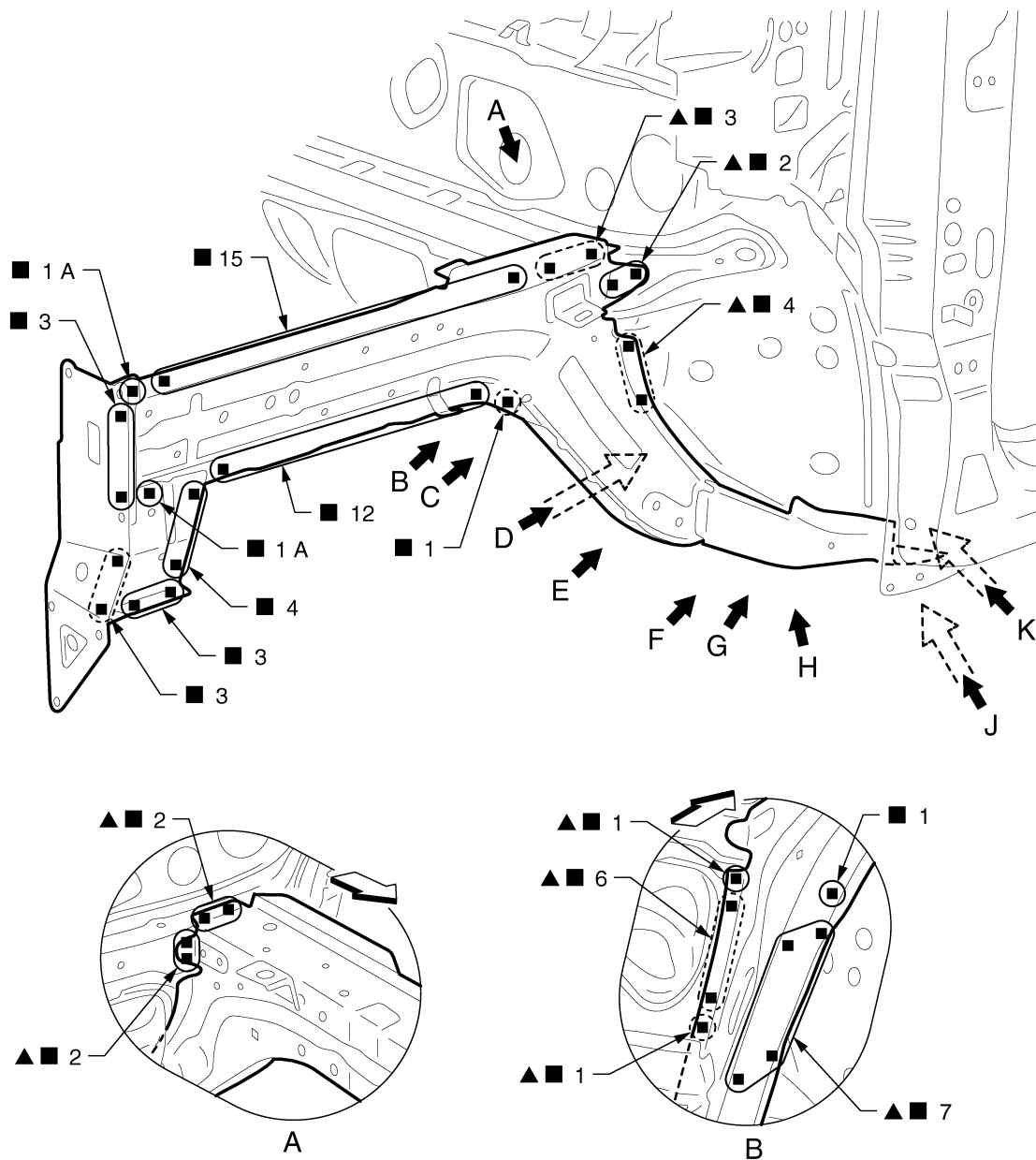
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REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >

[FOR USA AND CANADA]



JSKIA0408GB

⇐ : Vehicle front

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

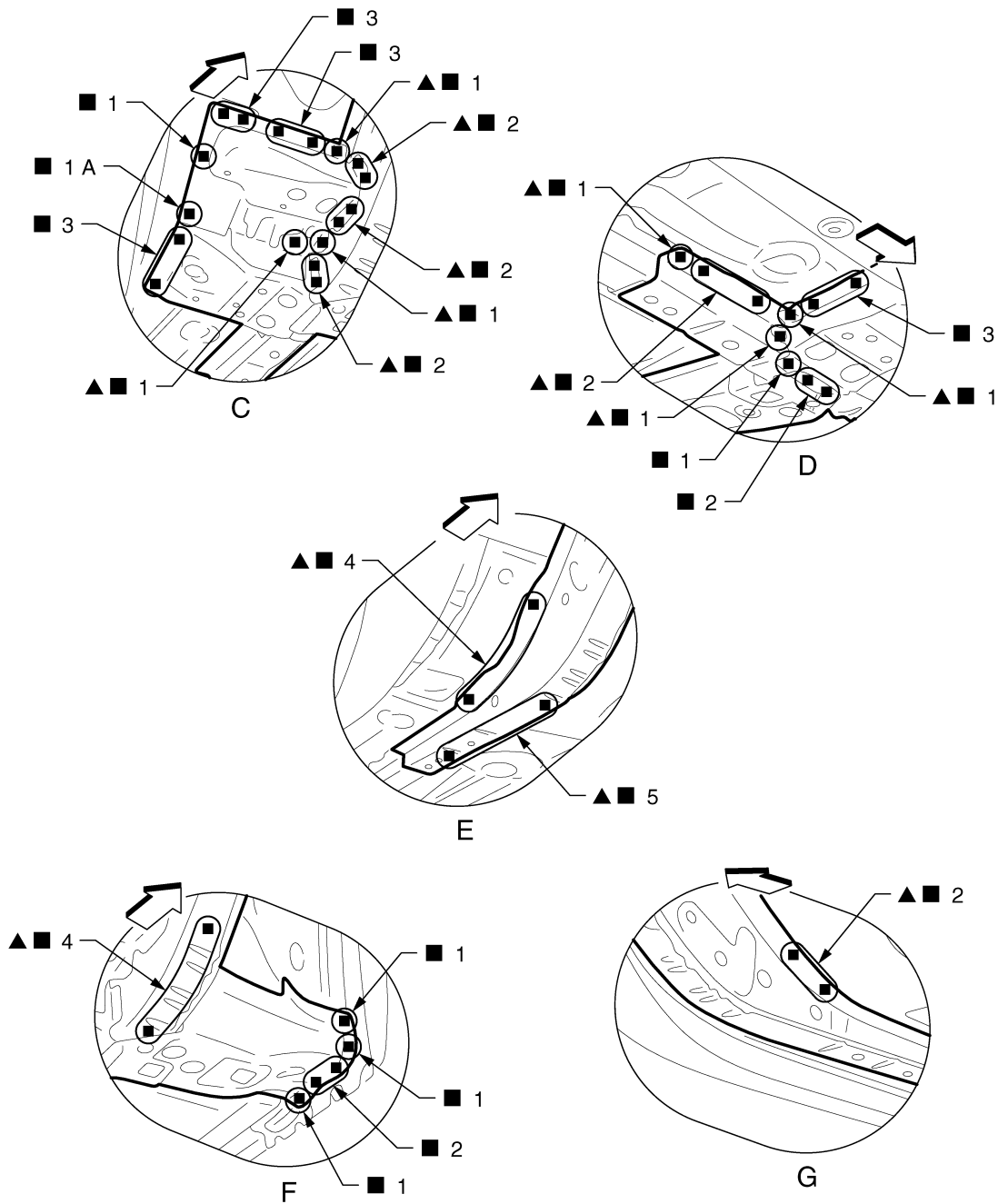
Replacement parts

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

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >

[FOR USA AND CANADA]



↔ : Vehicle front

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

View E, G: Before installing front suspension mounting bracket

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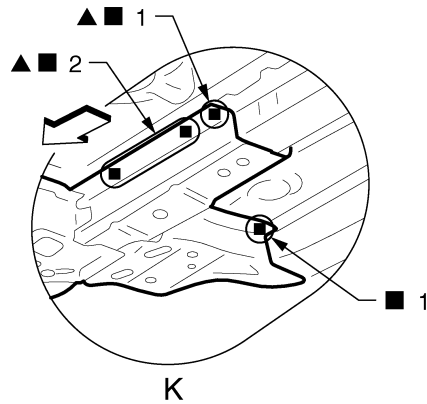
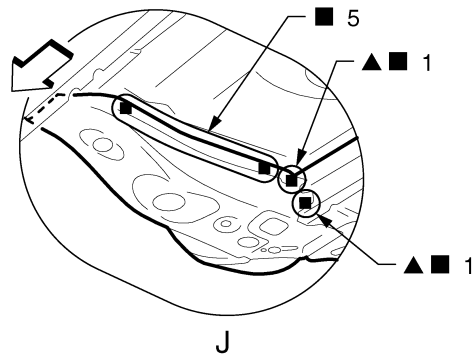
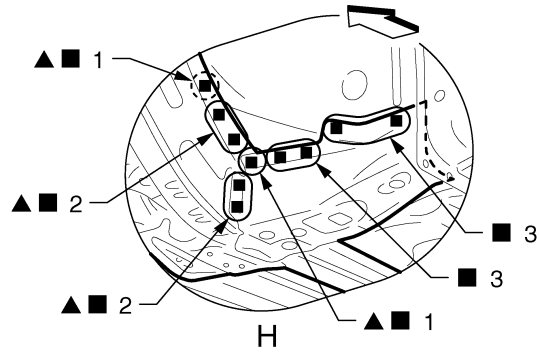
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JSKIA0409GB

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >

[FOR USA AND CANADA]



JSKIA0410GB

⇐ : Vehicle front

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

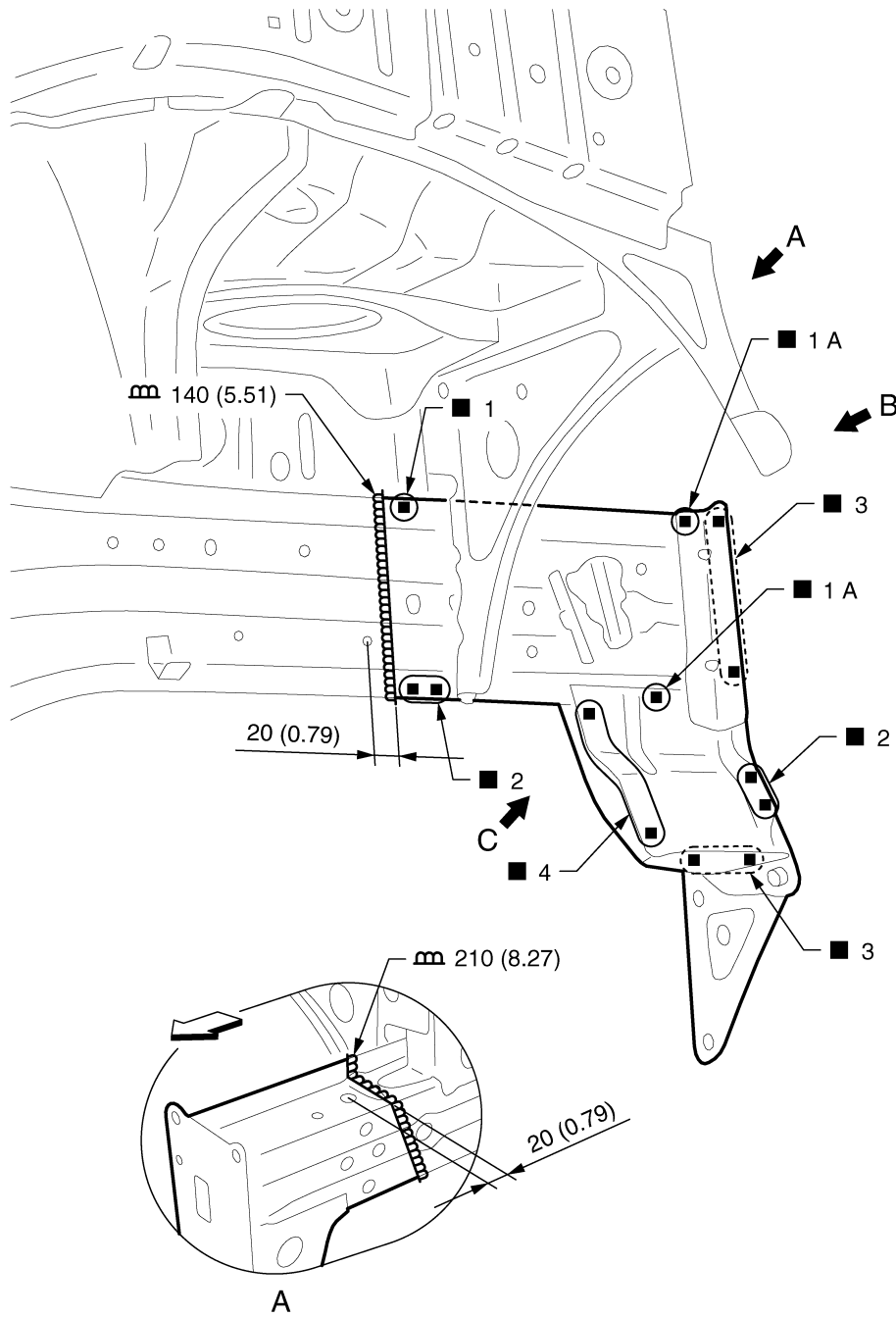
REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >

[FOR USA AND CANADA]

Front Side Member (Partial Replacement)

INFOID:000000008282485



Unit: mm (in)

JSKIA0411GB

↔ : Vehicle front

Replacement parts

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

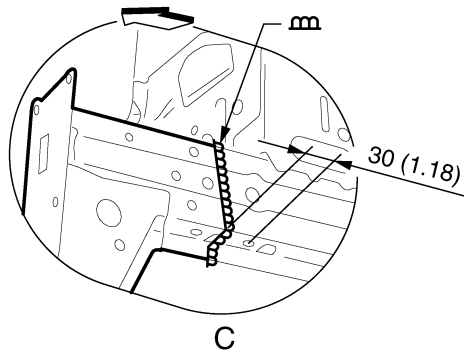
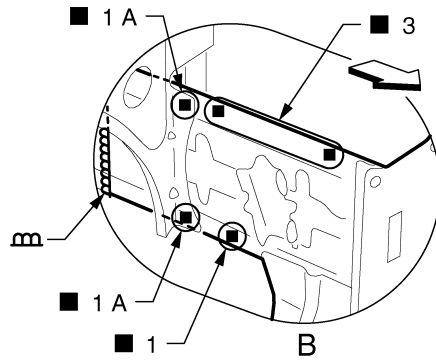
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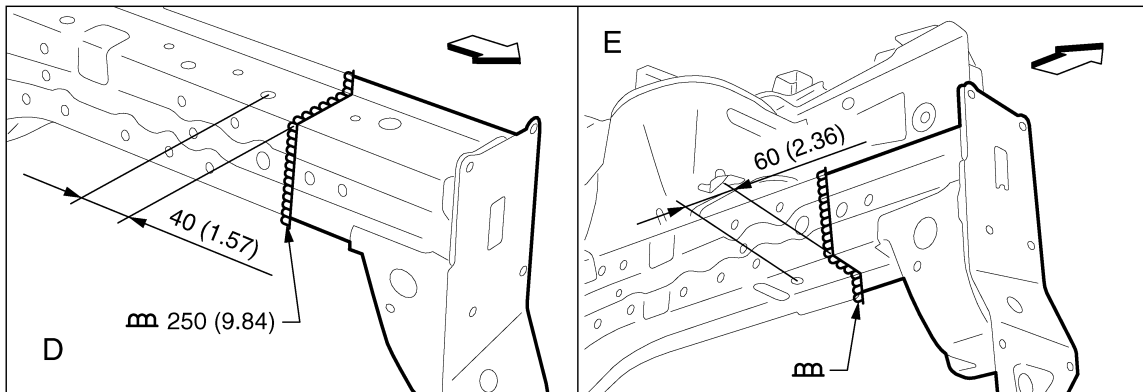
REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >

[FOR USA AND CANADA]



Unit: mm (in)



JSKIA0412GB

← : Vehicle front

View D, E: Left side member view

Front Pillar

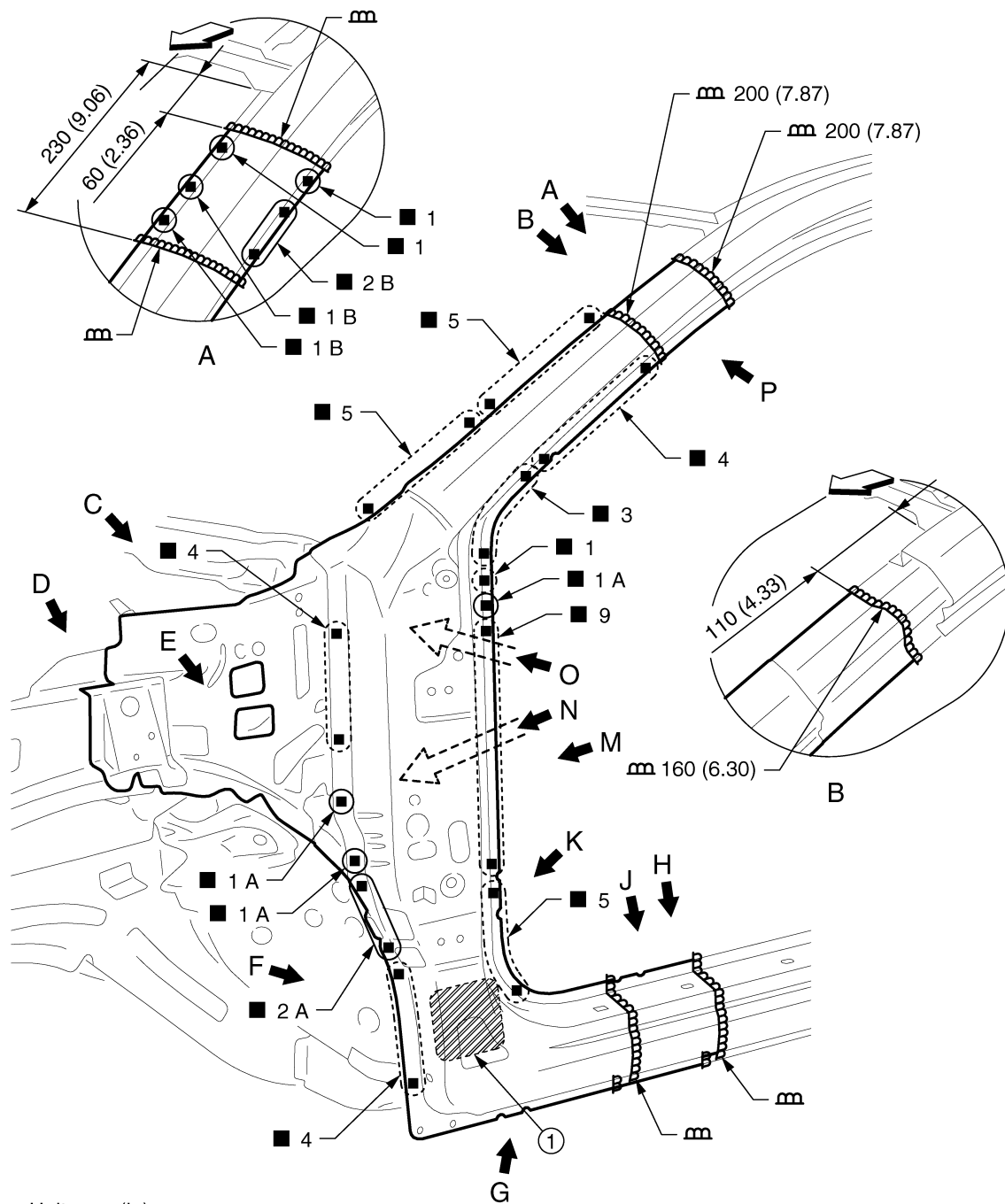
INFOID:000000008282486

Work after hoodledge reinforcement has been removed.
Remove the inner front pillar reinforcement for easier butt welding of the side dash.

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >

[FOR USA AND CANADA]



Unit: mm (in)

JSKIA0413GB

1. Urethane foam

◀ : Vehicle front

Replacement parts

● Side body assembly (LH)

● Side dash (LH)

● Upper inner front pillar (LH)

View B: Before installing outer front side body

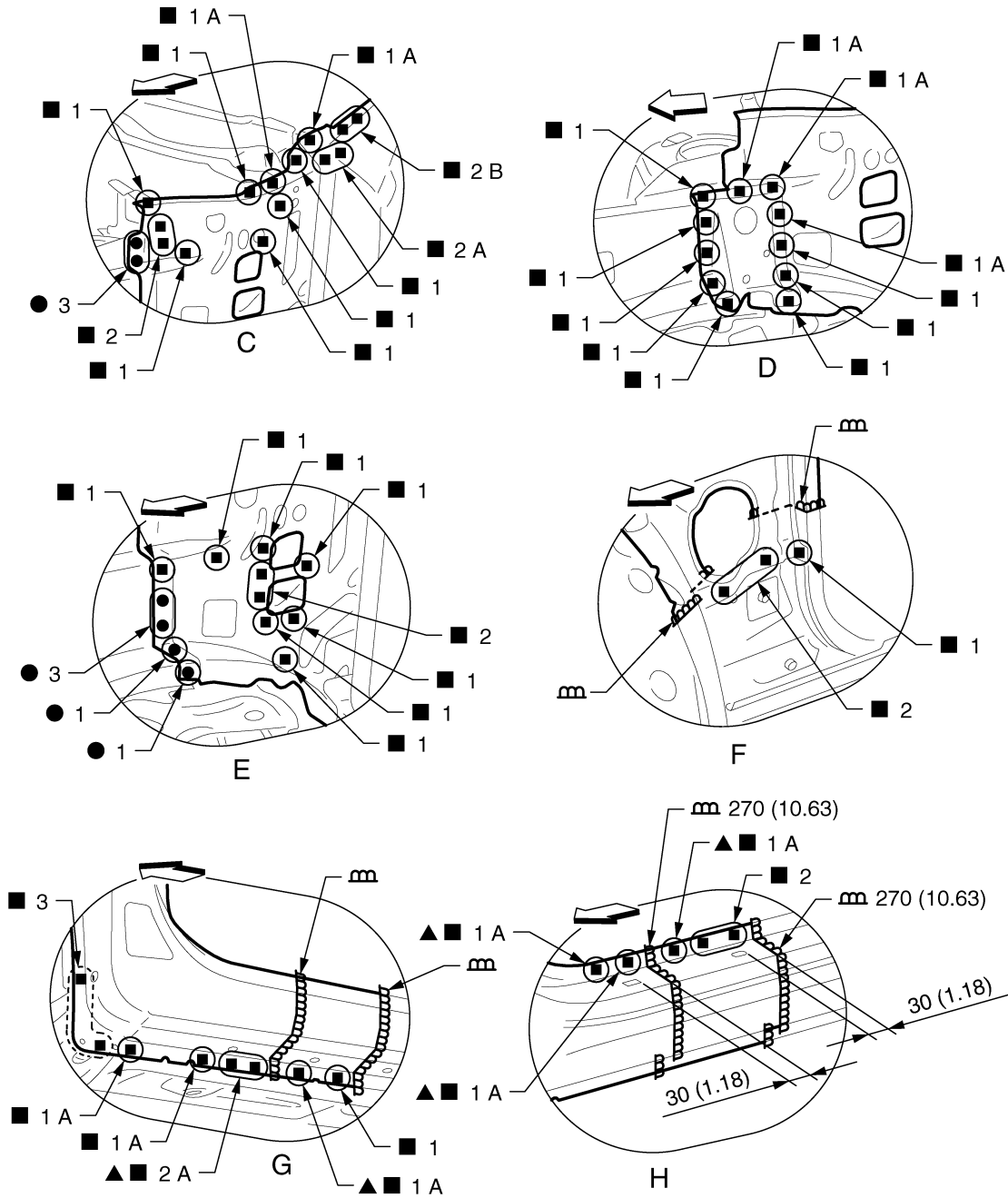
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REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >

[FOR USA AND CANADA]



Unit: mm (in)

JSKIA0414GB

← : Vehicle front

▲ : Drill $\phi 10$ mm (0.39 in) hole for plug welding hole (ultra high strength steel plate).

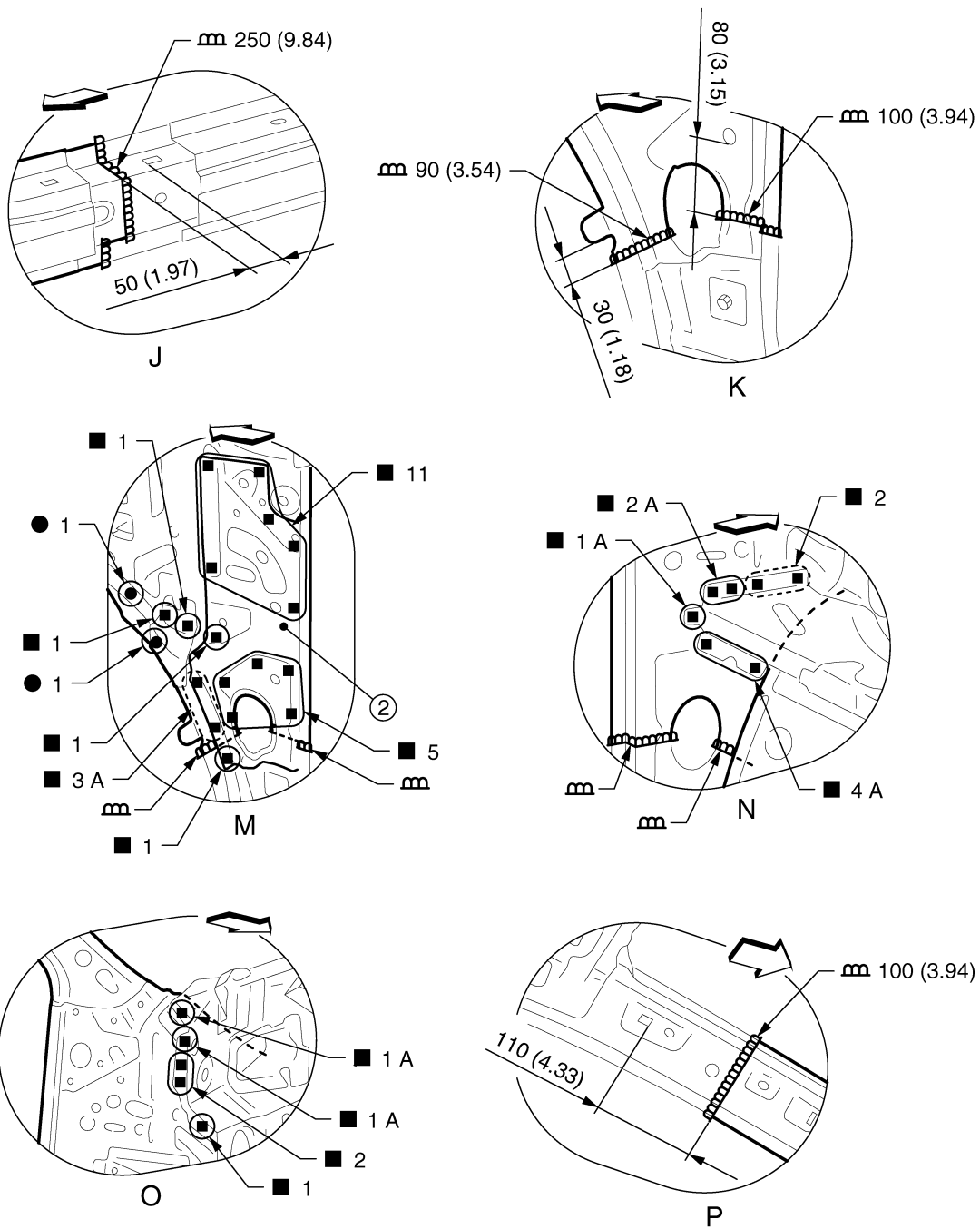
View C, E: Before installing hoodledge reinforcement gusset

View F: Before installing side body assembly and inner front pillar reinforcement

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >

[FOR USA AND CANADA]



Unit: mm (in)

JSKIA0415GB

2. Inner front pillar reinforcement

↶ : Vehicle front

View J: Before installing outer front side body

View K: Before installing side body assembly and inner front pillar reinforcement

View M: Before installing side body assembly

Center Pillar

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Install the inner center pillar to the outer side body assembly as shown in the figure for repairing the hidden welding point (a).

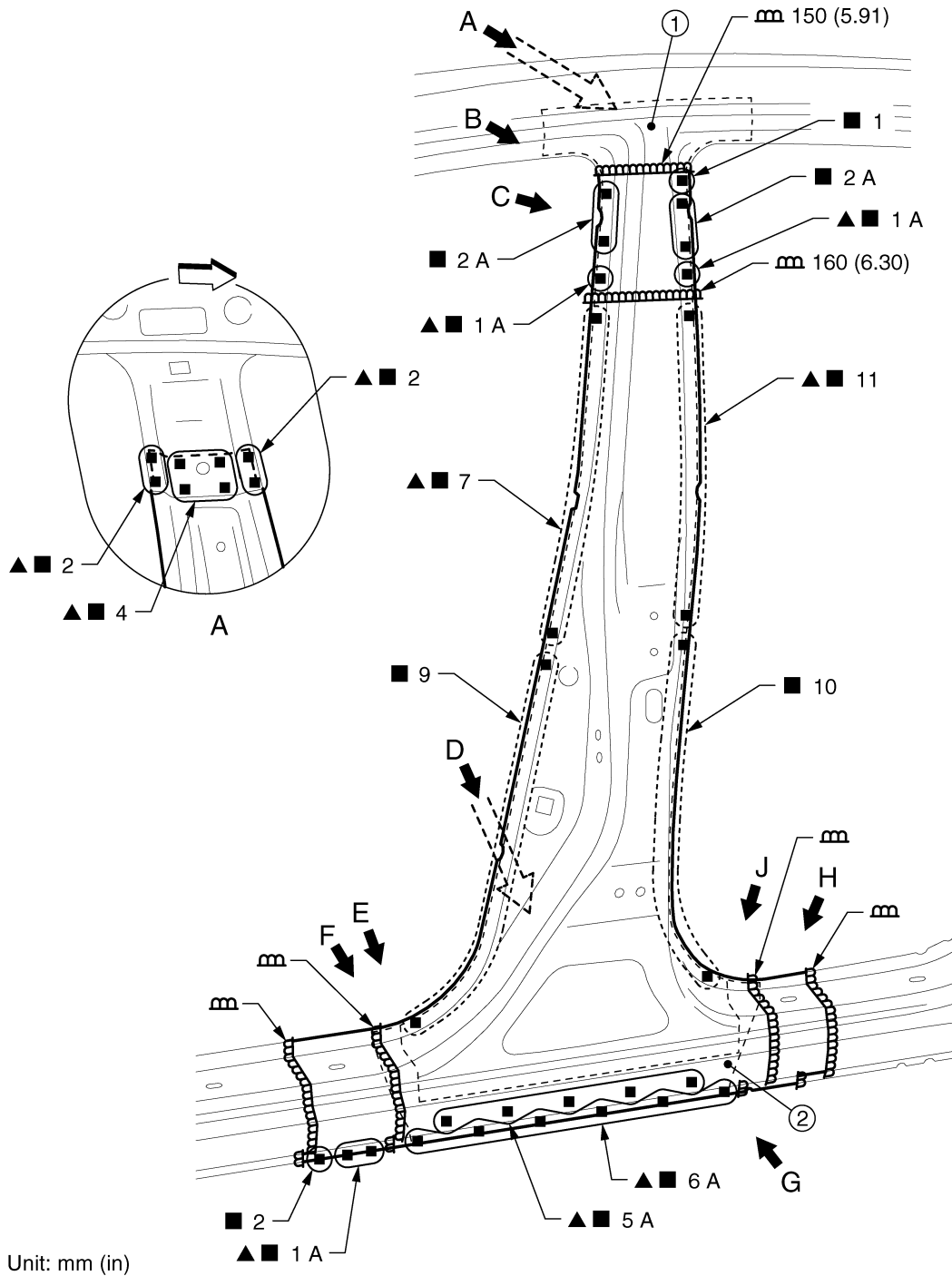
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REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >

[FOR USA AND CANADA]



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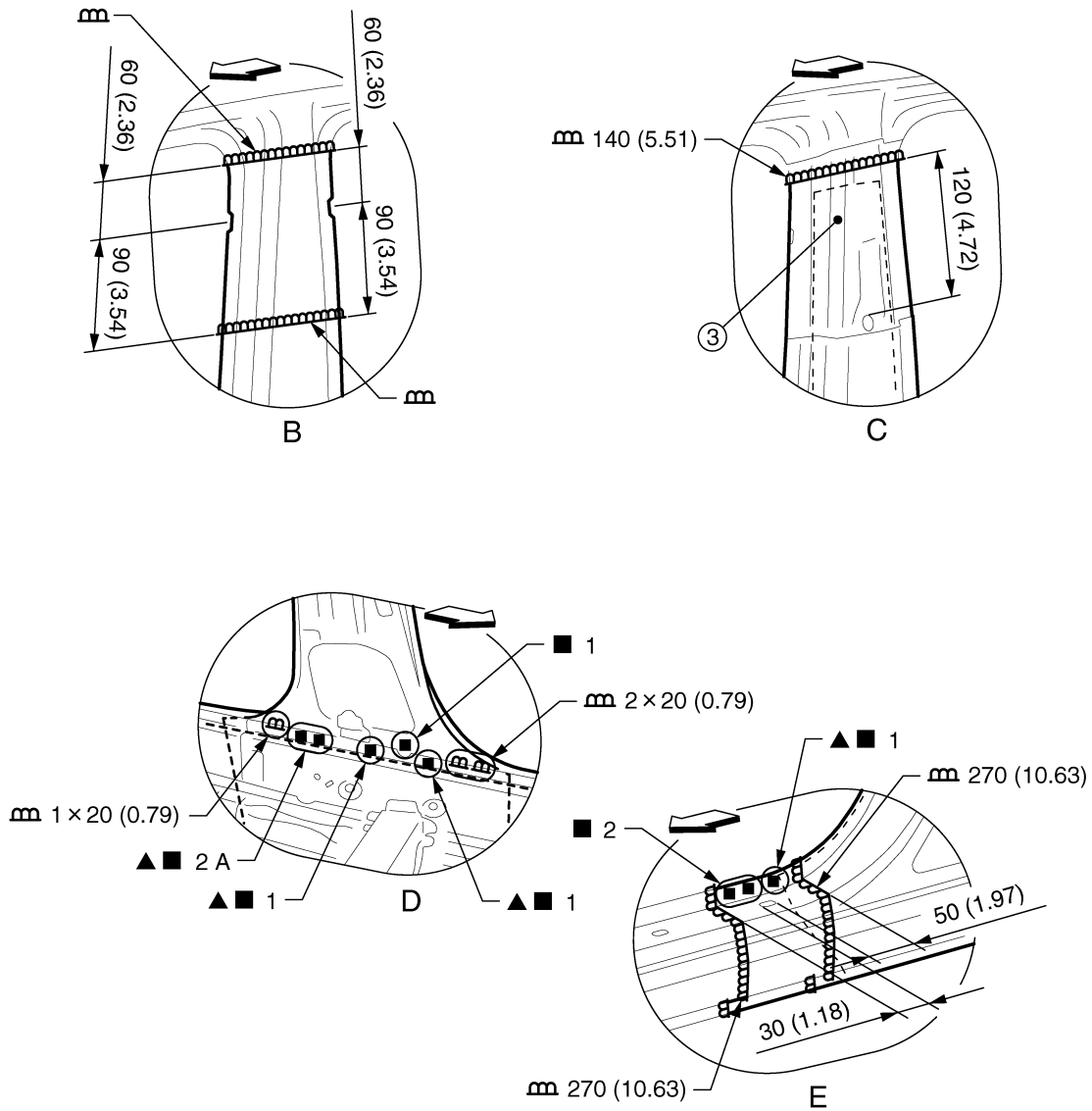
- 1. Lower center pillar brace
- 2. Inner center pillar
- ↔ : Vehicle front
- ▲ : Drill $\phi 9$ mm (0.35 in) hole for the plug welding hole (ultra high strength steel plate).
- Replacement parts
- Side body assembly (LH)
- Inner center pillar (LH)

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >

[FOR USA AND CANADA]

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Unit: mm (in)

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3. Center pillar reinforcement

↶ : Vehicle front

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

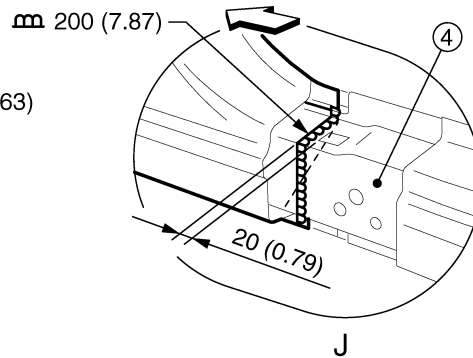
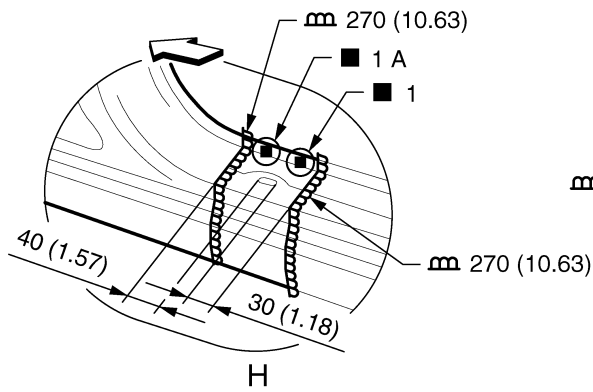
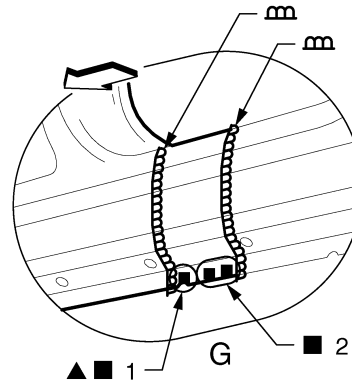
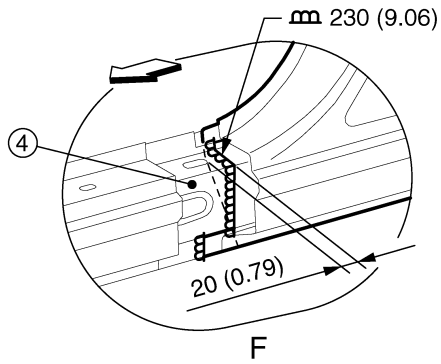
View C: Before installing outer front side body

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REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >

[FOR USA AND CANADA]



Unit: mm (in)

JSKIA0418GB

4. Outer sill reinforcement

↔ : Vehicle front

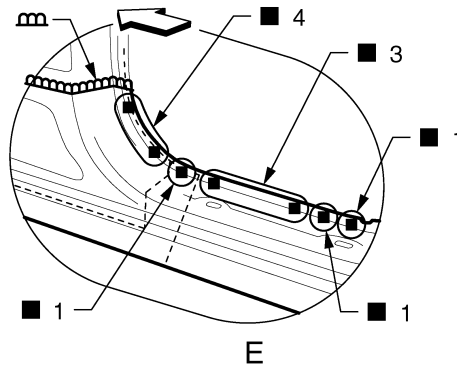
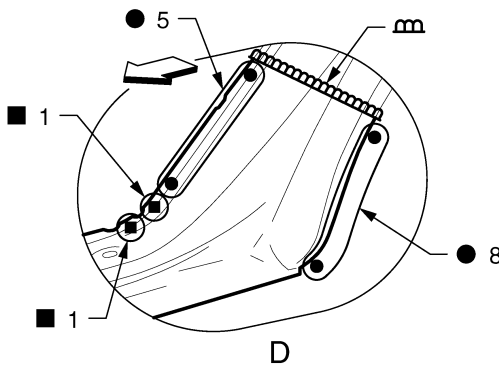
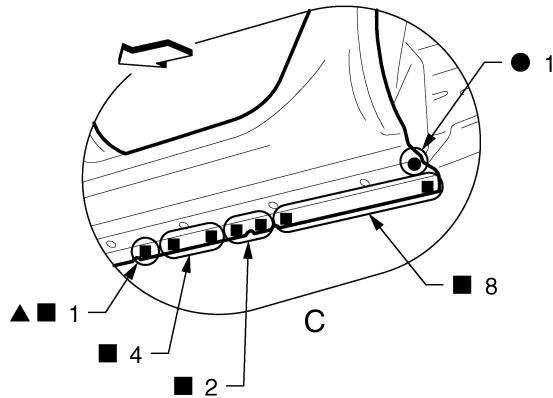
▲ : Drill $\phi 9$ mm (0.35 in) hole for the plug welding hole (ultra high strength plate).

View F, J: Before installing outer front side body

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >

[FOR USA AND CANADA]



JSKIA0420GB

← : Vehicle front

Rear Fender

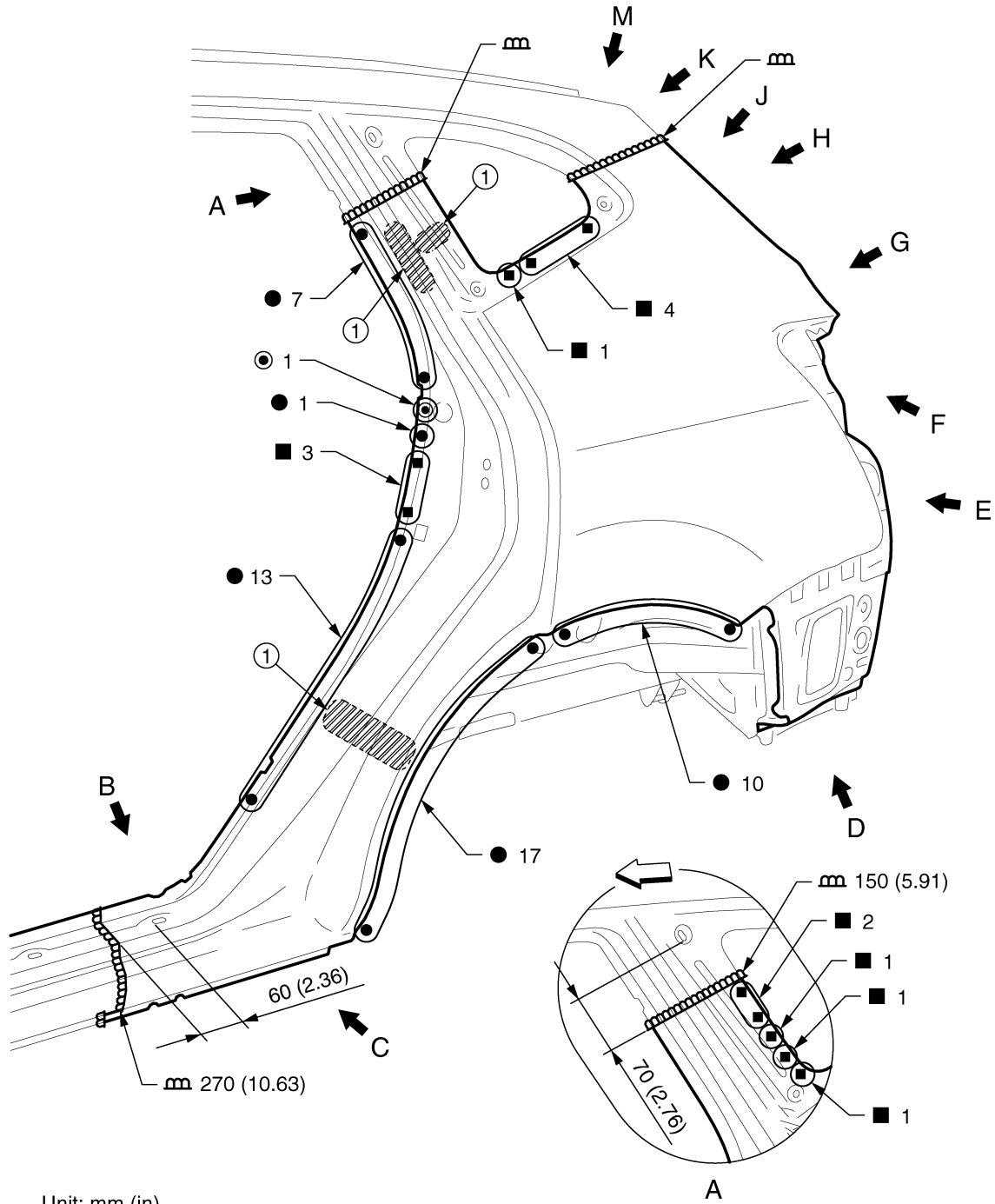
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Remove the rear combination lamp base from the rear fender assembly service part for easier installation.

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >

[FOR USA AND CANADA]



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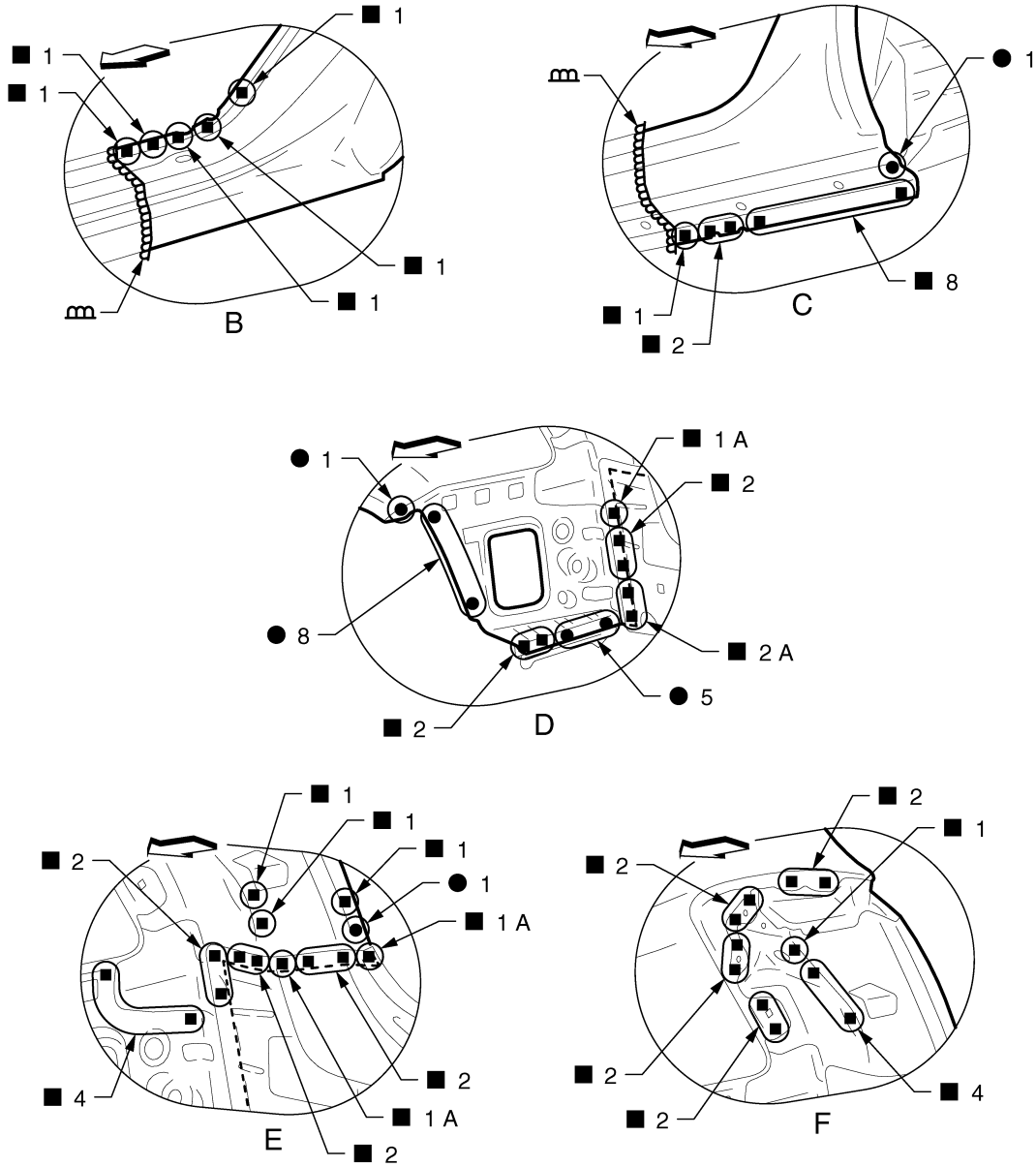
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REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >

[FOR USA AND CANADA]



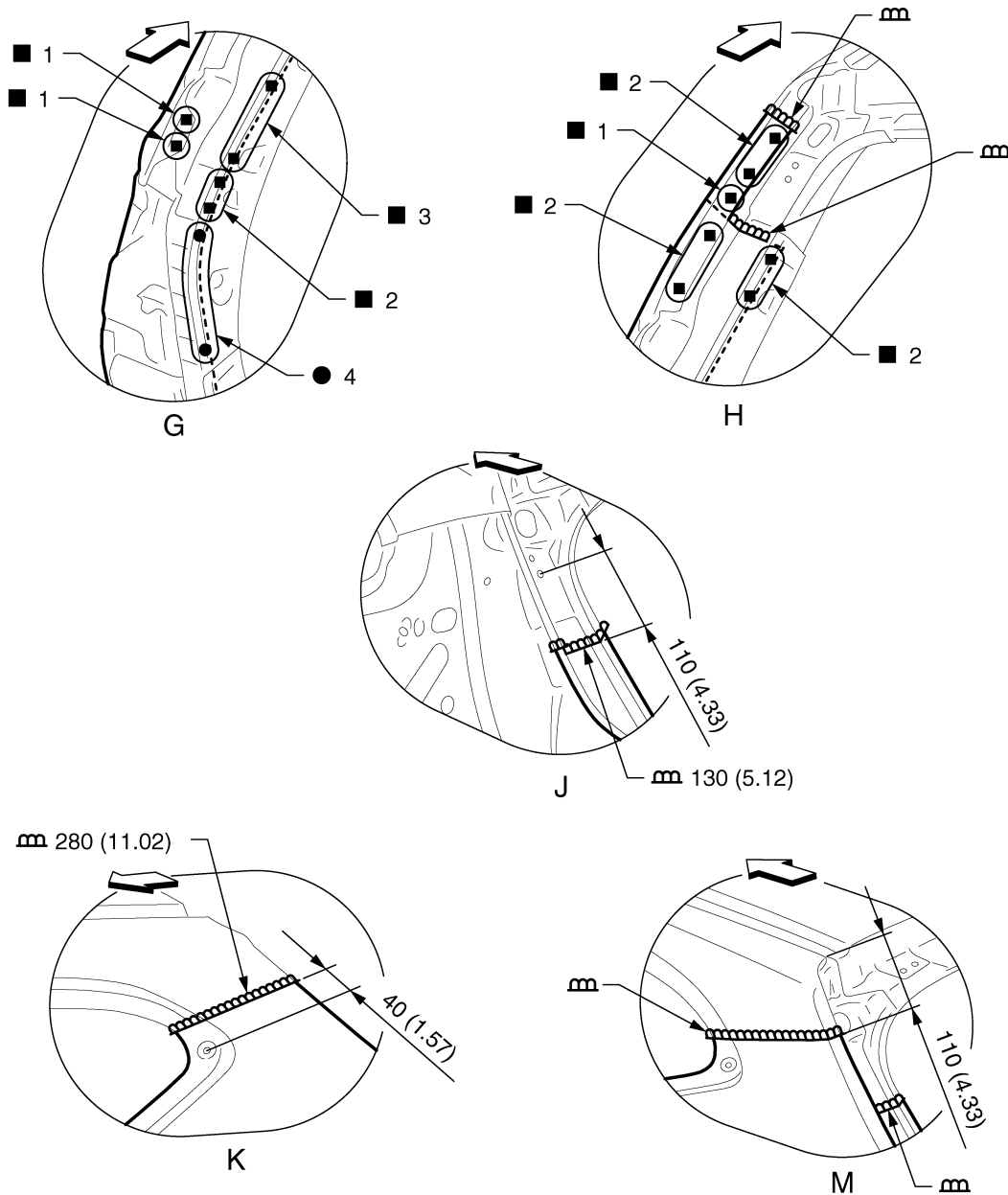
JSKIA0422GB

← : Vehicle front

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >

[FOR USA AND CANADA]



Unit: mm (in)

JSKIA0423GB

← : Vehicle front

View J: Before installing rear fender

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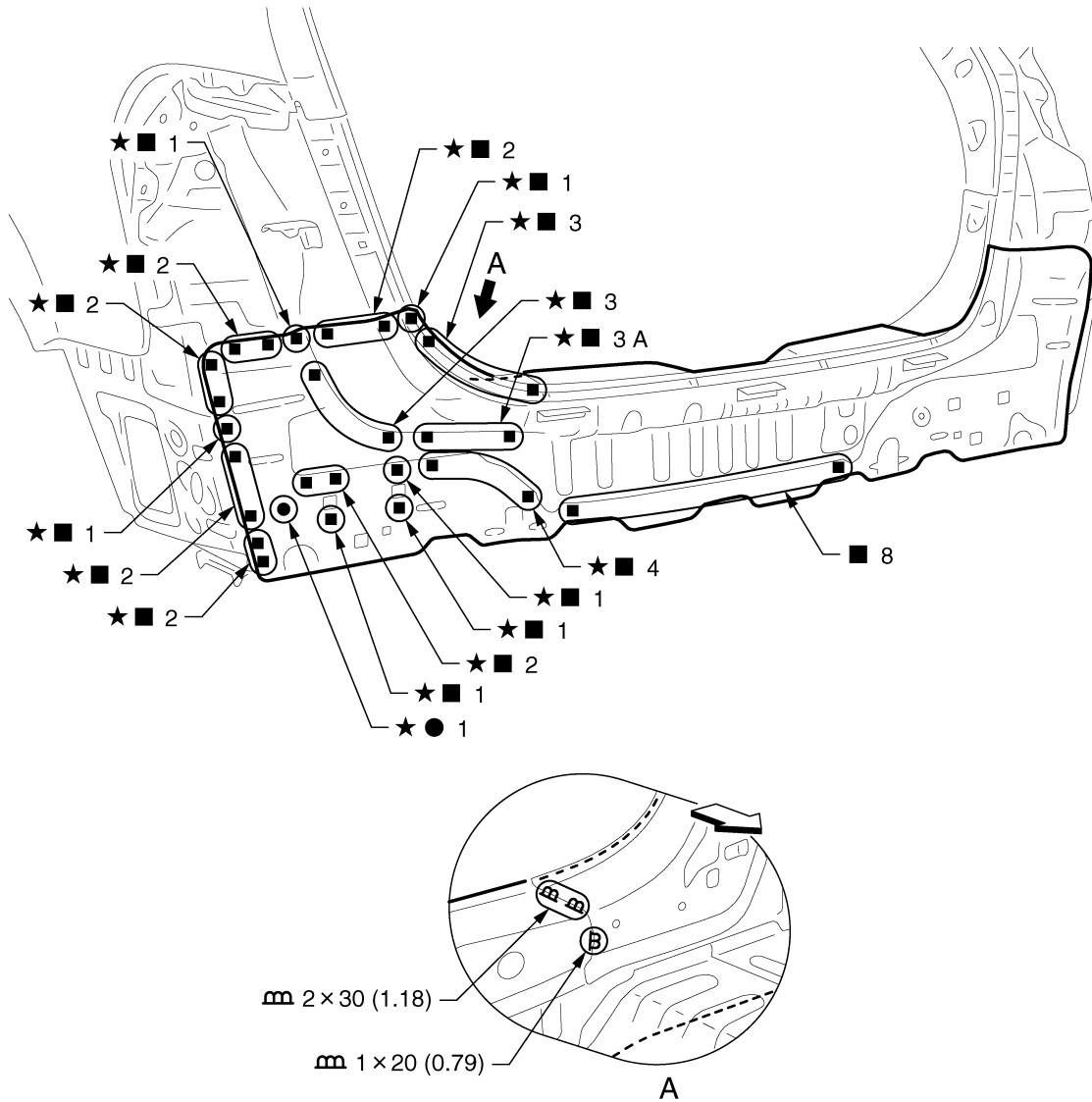
REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >

[FOR USA AND CANADA]

Rear Panel

INFOID:000000008282490



Unit: mm (in)

JSKIA0424GB

↔ : Vehicle front

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

Replacement parts

- Rear panel assembly

Rear Floor Rear

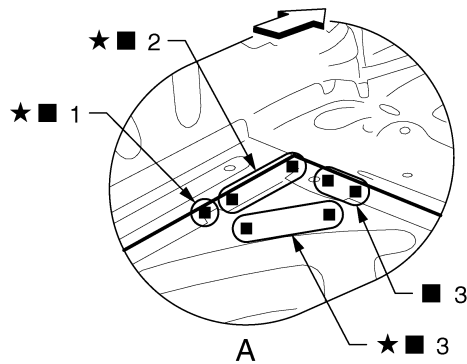
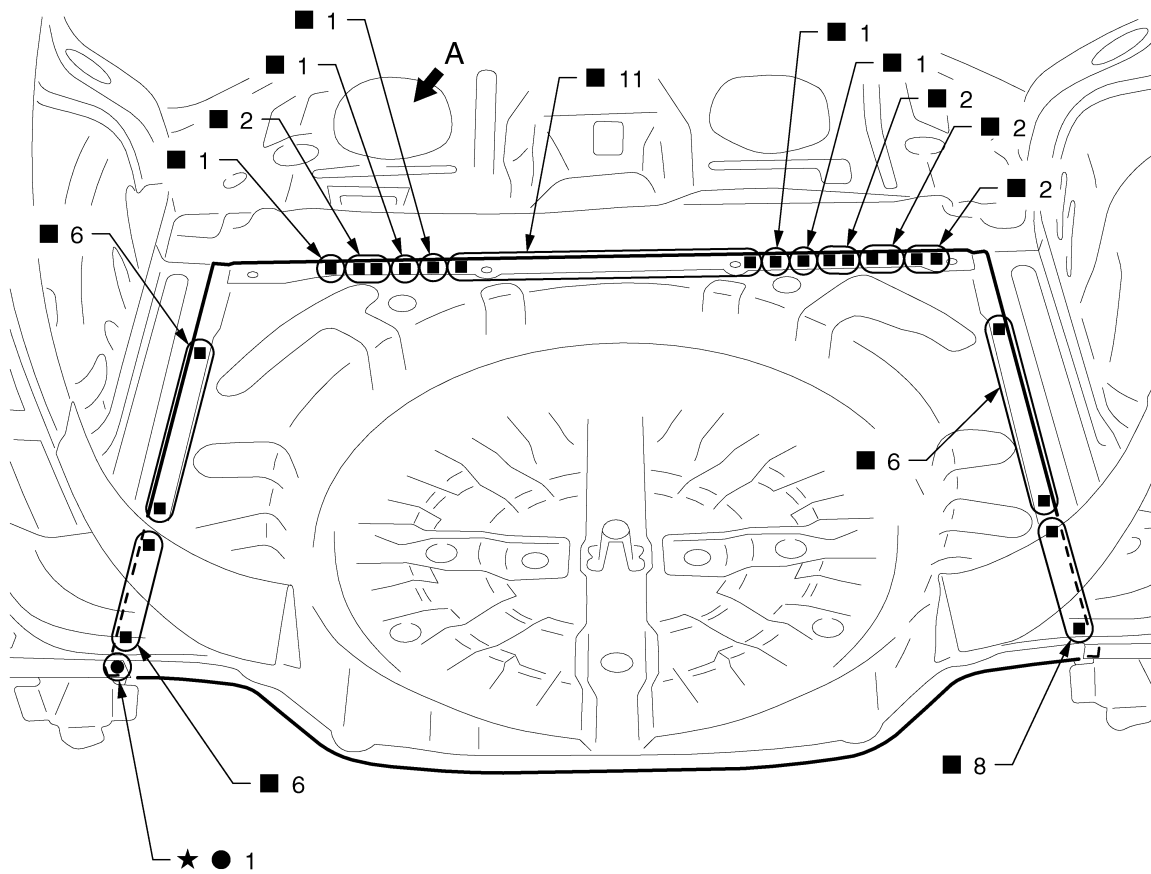
INFOID:000000008282491

Work after rear panel has been removed.

REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >

[FOR USA AND CANADA]



↔ : Vehicle front

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

Replacement parts

● Rear floor rear

Rear Side Member Extension

Work after rear panel has been removed.

JSKIA0425GB

INFOID:000000008282492

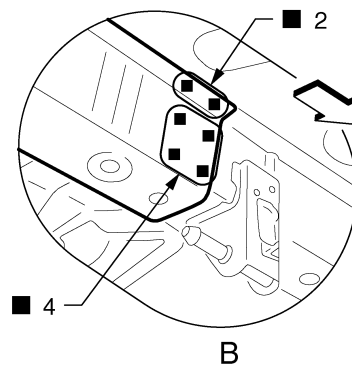
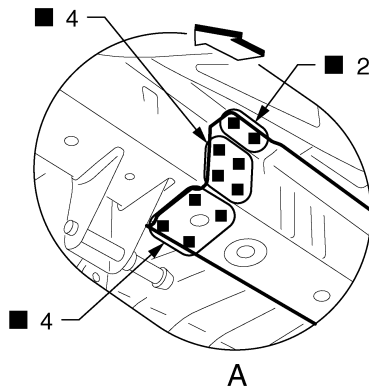
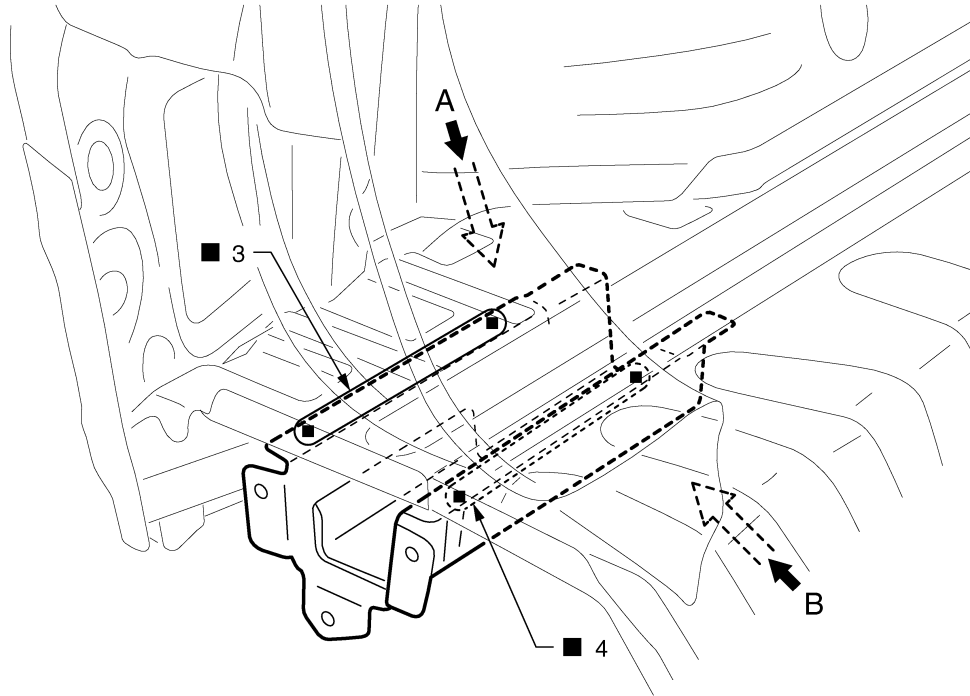
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REPLACEMENT OPERATIONS

< REMOVAL AND INSTALLATION >

[FOR USA AND CANADA]



JSKIA0426GB

← : Vehicle front

Replacement parts

- Rear side member extension (LH)

BODY ALIGNMENT

< SERVICE DATA AND SPECIFICATIONS (SDS)

[FOR USA AND CANADA]

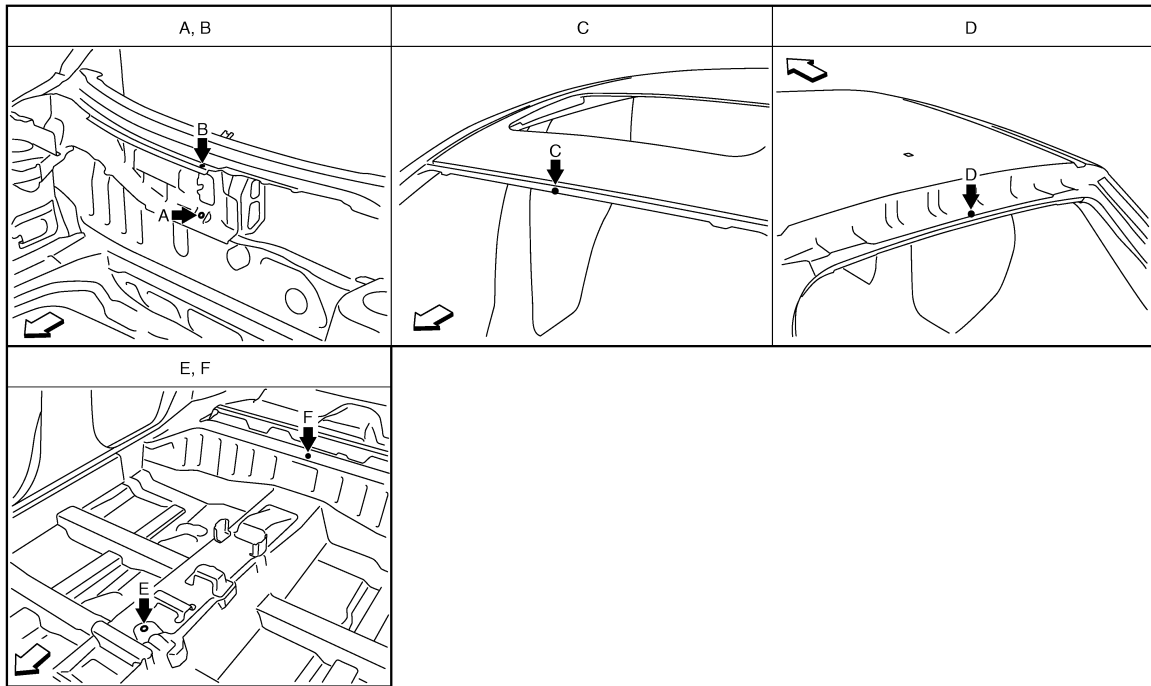
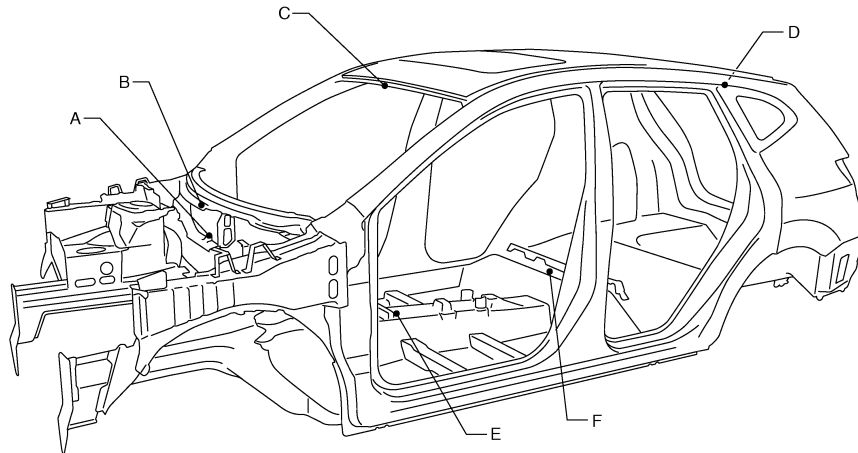
SERVICE DATA AND SPECIFICATIONS (SDS)

BODY ALIGNMENT

Body Center Marks

INFOID:000000008282493

A mark has been placed on each part of the body to indicate the vehicle center. When repairing parts damaged by an accident which might affect the vehicle frame (members, pillars, etc.), more accurate and effective repair will be possible by using these marks together with body alignment specifications.



JSKIA0447GB

↶: Vehicle front

Unit: mm (in)

Points	Portion	Marks
A	Cowl top extension	Hole $\phi 7$ (0.28)
B	Center cowl top	Embossment
C	Front roof	Embossment
D	Rear roof	Embossment

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BODY ALIGNMENT

< SERVICE DATA AND SPECIFICATIONS (SDS)

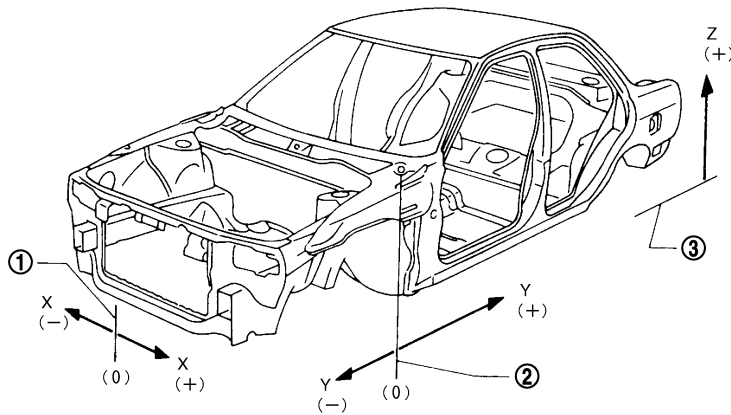
[FOR USA AND CANADA]

Points	Portion	Marks
E	Trans control reinforcement	Hole 14×12 (0.55×0.47)
F	Rear seat crossmember	Embossment

Description

INFOID:000000008282494

- All dimensions indicated in the figures are actual.
- When using a tracking gauge, adjust both pointers to equal length. Then check the pointers and gauge itself to make sure there is no free play.
- When a measuring tape is used, check to be sure there is no elongation, twisting or bending.
- Measurements should be taken at the center of the mounting holes.
- An asterisk (*) following the value at the measuring point indicates that the measuring point on the other side is symmetrically the same value.
- The coordinates of the measurement points are the distances measured from the standard line of "X", "Y" and "Z".
- "Z": Imaginary base line [200 mm (7.87 in) below datum line ("0Z" at design plan)]



JSKIA0073GB

1. Vehicle center

2. Front axle center

3. Imaginary base line

Engine Compartment

INFOID:000000008282495

MEASUREMENT

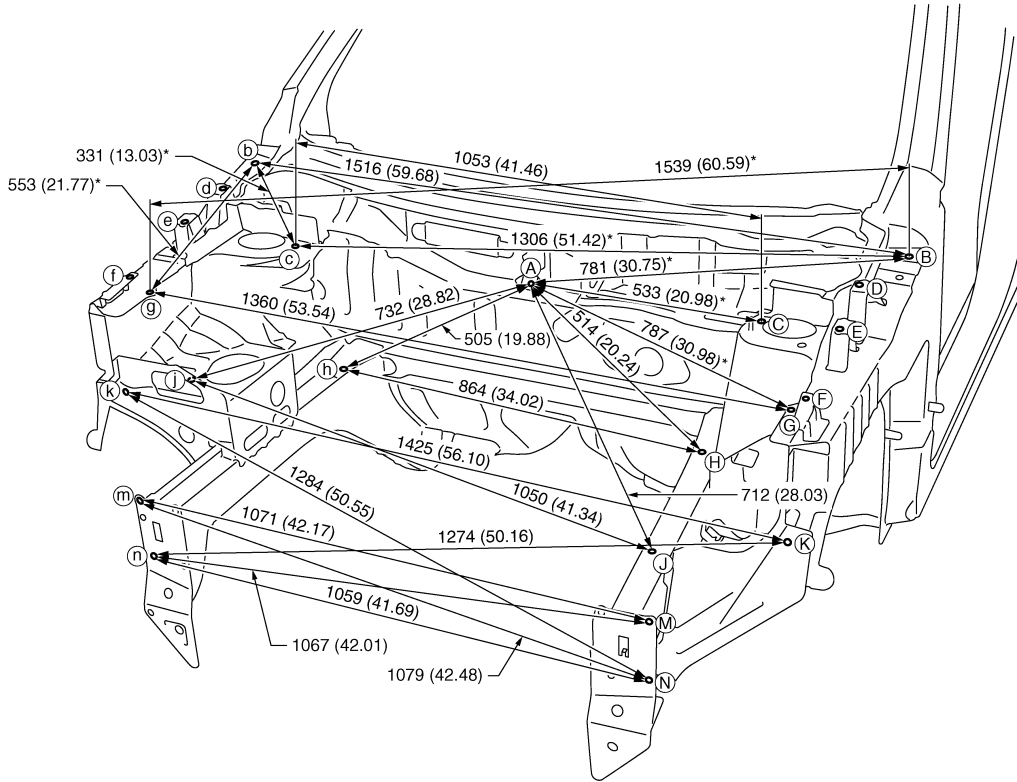
BODY ALIGNMENT

< SERVICE DATA AND SPECIFICATIONS (SDS)

[FOR USA AND CANADA]

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

Unit : mm (in)



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JSKIA0427GB

«The others»

Unit: mm (in)

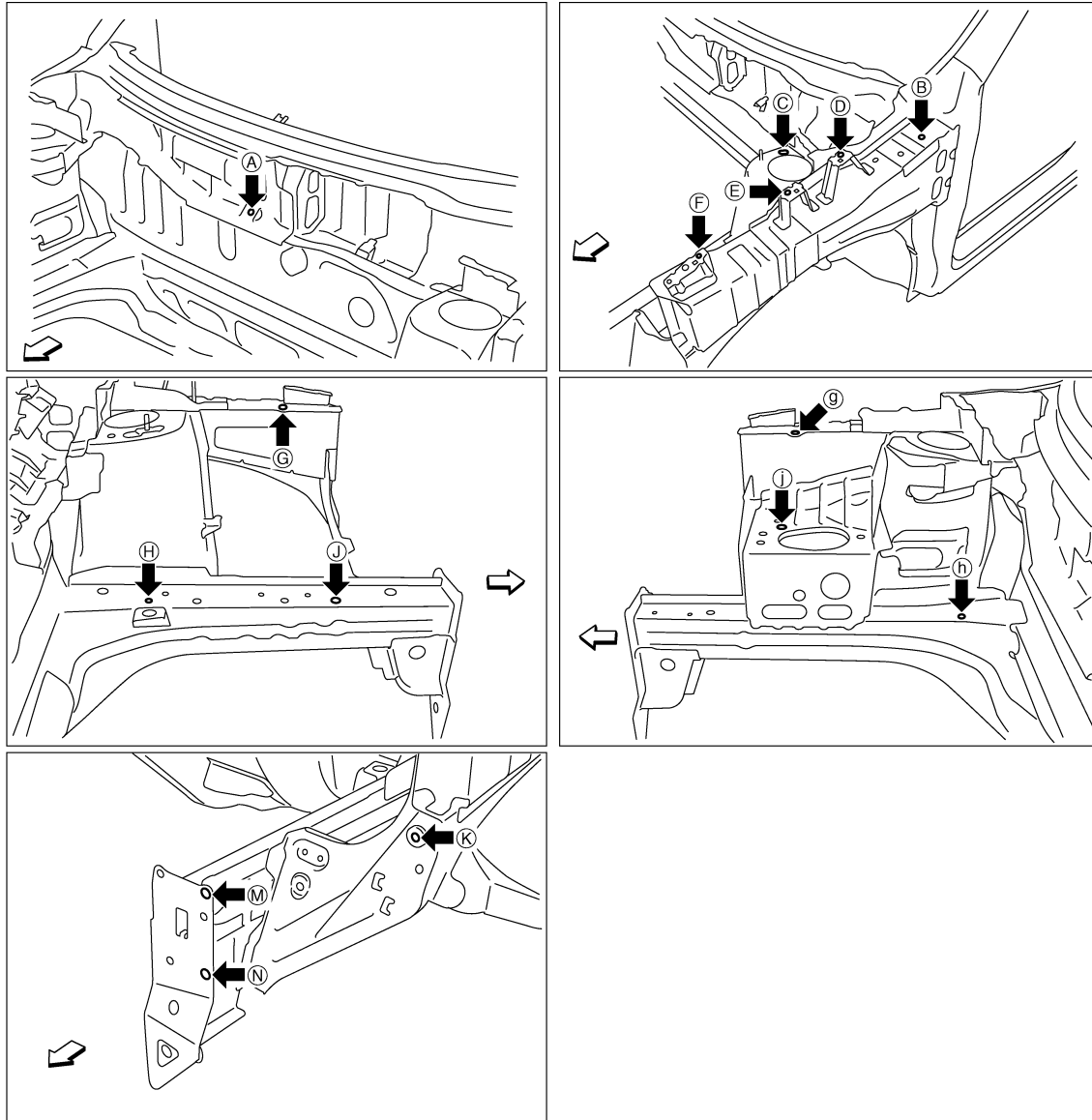
Point	Dimension	Memo	Point	Dimension	Memo	Point	Dimension	Memo	Point	Dimension	Memo
A - D	725 (28.54)*		A - F	827 (32.56)*		D - F	361 (14.21)*		E - e	1425 (56.10)	
A - E	750 (29.53)*		D - d	1418 (55.83)		D - f	1466 (57.72)*		F - f	1423 (56.02)	

MEASUREMENT POINTS

BODY ALIGNMENT

< SERVICE DATA AND SPECIFICATIONS (SDS)

[FOR USA AND CANADA]



JSKIA0428GB

↶: Vehicle front

Unit: mm (in)

Point	Material	Point	Material
A	Cowl top extension hole center of center positioning mark $\phi 7$ (0.28)	J	Front side member hole center $\phi 14$ (0.55)
B, b	Hood hinge installing hole center $\phi 12$ (0.47)	j	Engine mounting bracket installing hole center $\phi 12$ (0.47)
C, c	Front strut installing hole center 16×10 (0.63×0.39)	K, k	Hoodedge connector hole center $\phi 12$ (0.47)
D, d, E, e, F, f	Upper front fender bracket hole center $\phi 7$ (0.28)	M, m	Front side member connector hole center 13×12 (0.51×0.47)

BODY ALIGNMENT

< SERVICE DATA AND SPECIFICATIONS (SDS)

[FOR USA AND CANADA]

Point	Material	Point	Material
G, g	Hoodledge reinforcement hole center φ8 (0.31)	N, n	Front side member connector hole center N: φ15 (0.59) n: φ13 (0.51)
H, h	Front side member hole center H: φ7 (0.28) h: φ8 (0.31)		

Underbody

INFOID:000000008282496

MEASUREMENT

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

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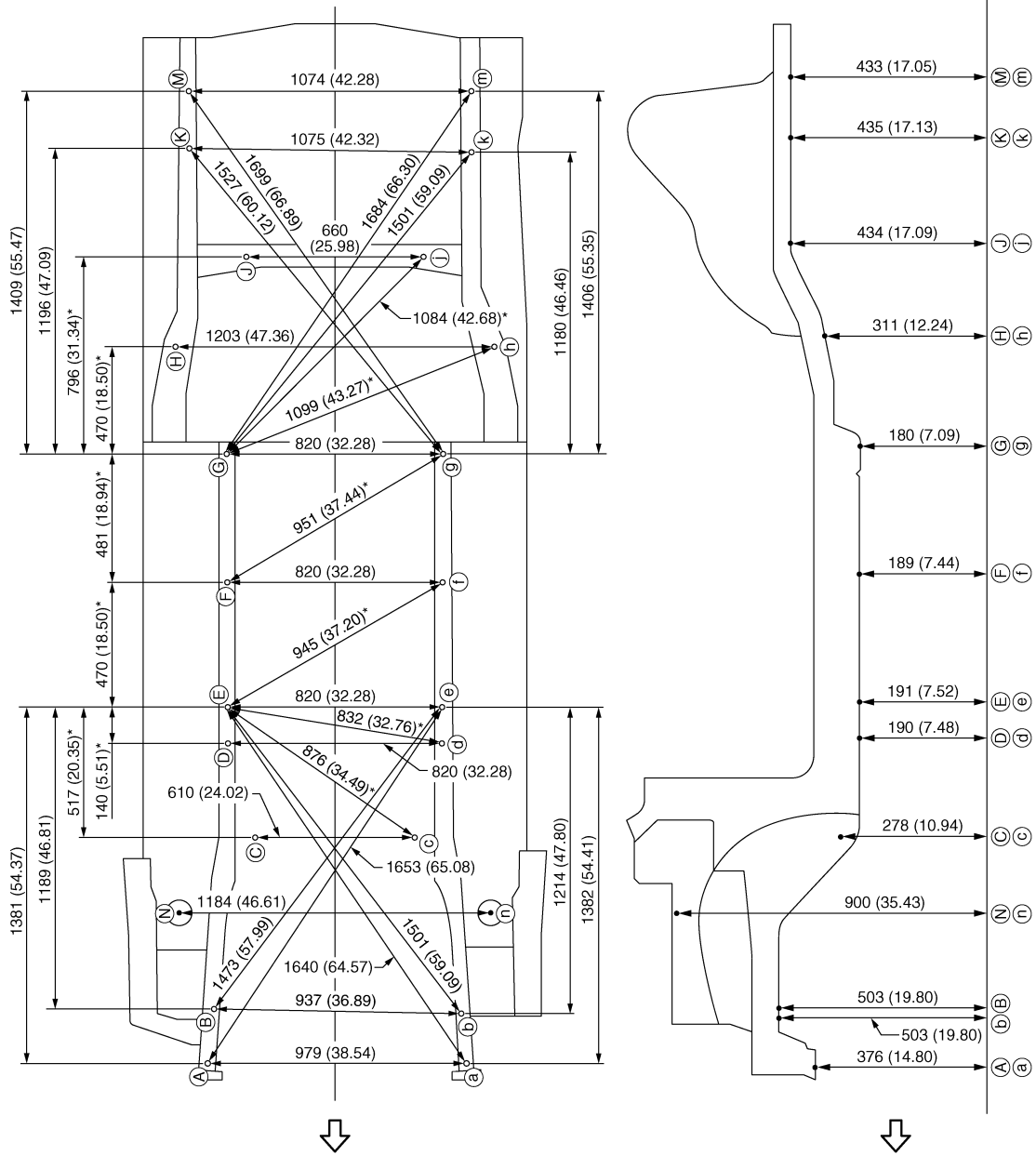
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BODY ALIGNMENT

< SERVICE DATA AND SPECIFICATIONS (SDS)

[FOR USA AND CANADA]

Unit : mm (in)



JSKIA0429GB

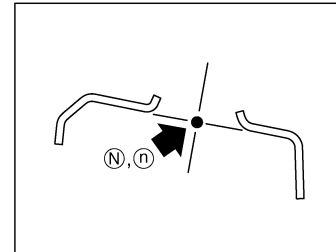
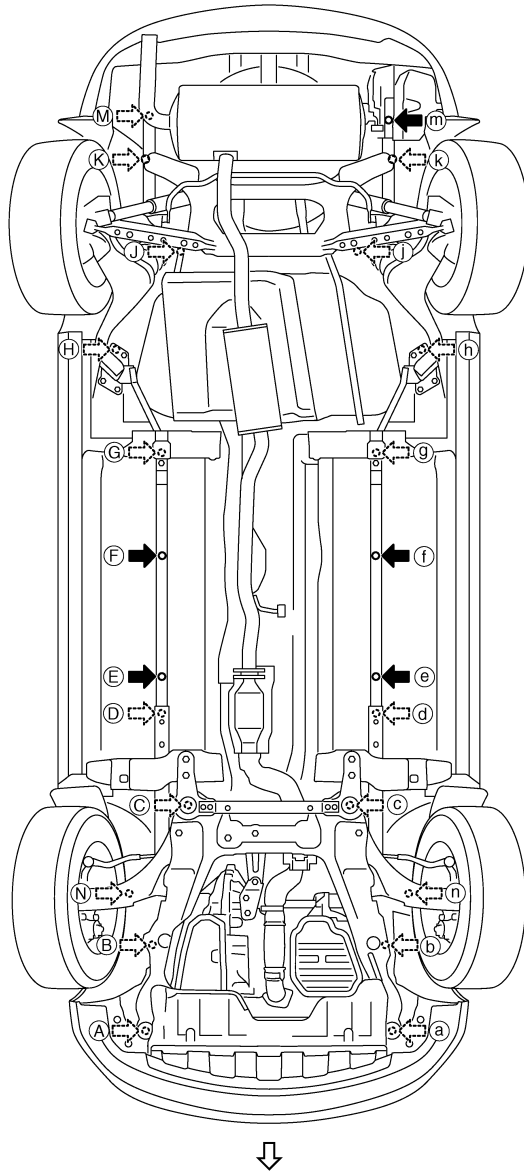
← Vehicle front

MEASUREMENT POINTS

BODY ALIGNMENT

< SERVICE DATA AND SPECIFICATIONS (SDS)

[FOR USA AND CANADA]



JSKIA0430GB

←: Vehicle front

Unit: mm (in)

Points	Coordinates			Remarks	Points	Coordinates			Remarks
	X	Y	Z			X	Y	Z	
A	478	-567	376	Hole ϕ 18 (0.71)	G, g	\pm 410	1751	180	Hole ϕ 13 (0.51)
a	-501	-567	376	Hole ϕ 18 (0.71)	H, h	\pm 601	2159	311	Hole ϕ 15 (0.59)
B	462	-346	503	Hole ϕ 16 (0.63)	J, j	\pm 330	2501	234	J: Hole ϕ 30 (1.18) j: Hole 32 \times 30 (1.26 \times 1.18)
b	-475	-372	503	Hole ϕ 16(0.63)	K	549	2911	435	Hole ϕ 20 (0.79)
C, c	\pm 305	301	278	C: Hole ϕ 30 (1.18) c: Hole 32 \times 30 (1.26 \times 1.18)	k	-526	2897	435	Hole ϕ 20 (0.79)
D, d	\pm 410	660	190	Hole ϕ 14 (0.55)	M	551	3130	433	Hole ϕ 16 (0.63)
E, e	\pm 410	800	191	Hole ϕ 12 (0.47)	m	-524	3130	433	Hole ϕ 16 (0.63)
F, f	\pm 410	1270	189	Hole ϕ 12 (0.47)	N, n	\pm 592	12	900	Hole ϕ 103 (4.06)

BODY ALIGNMENT

< SERVICE DATA AND SPECIFICATIONS (SDS)

[FOR USA AND CANADA]

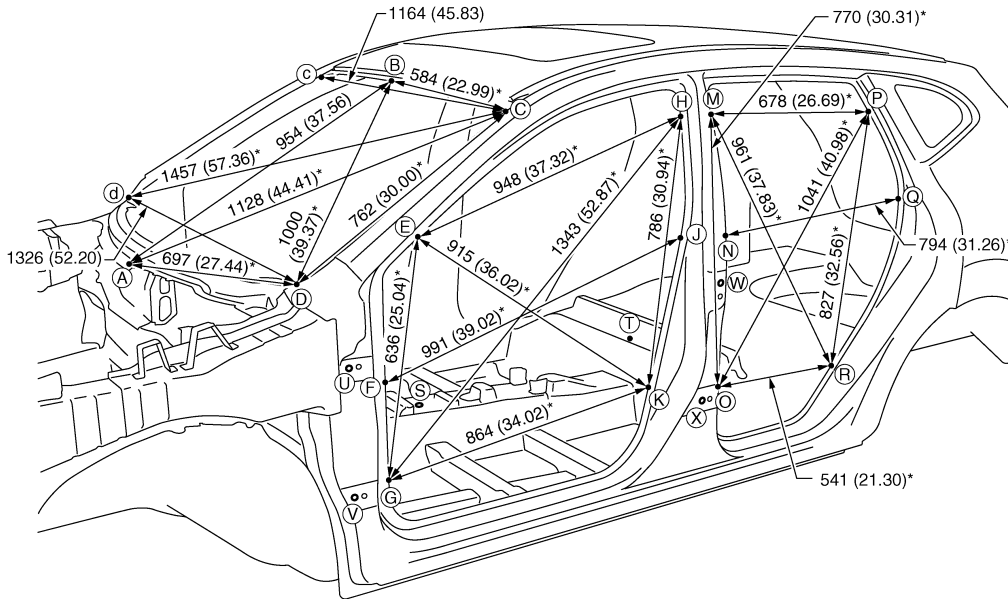
Passenger Compartment

INFOID:000000008282497

MEASUREMENT

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

Unit : mm (in)



JSKIA0431GB

«The others»

Unit: mm (in)

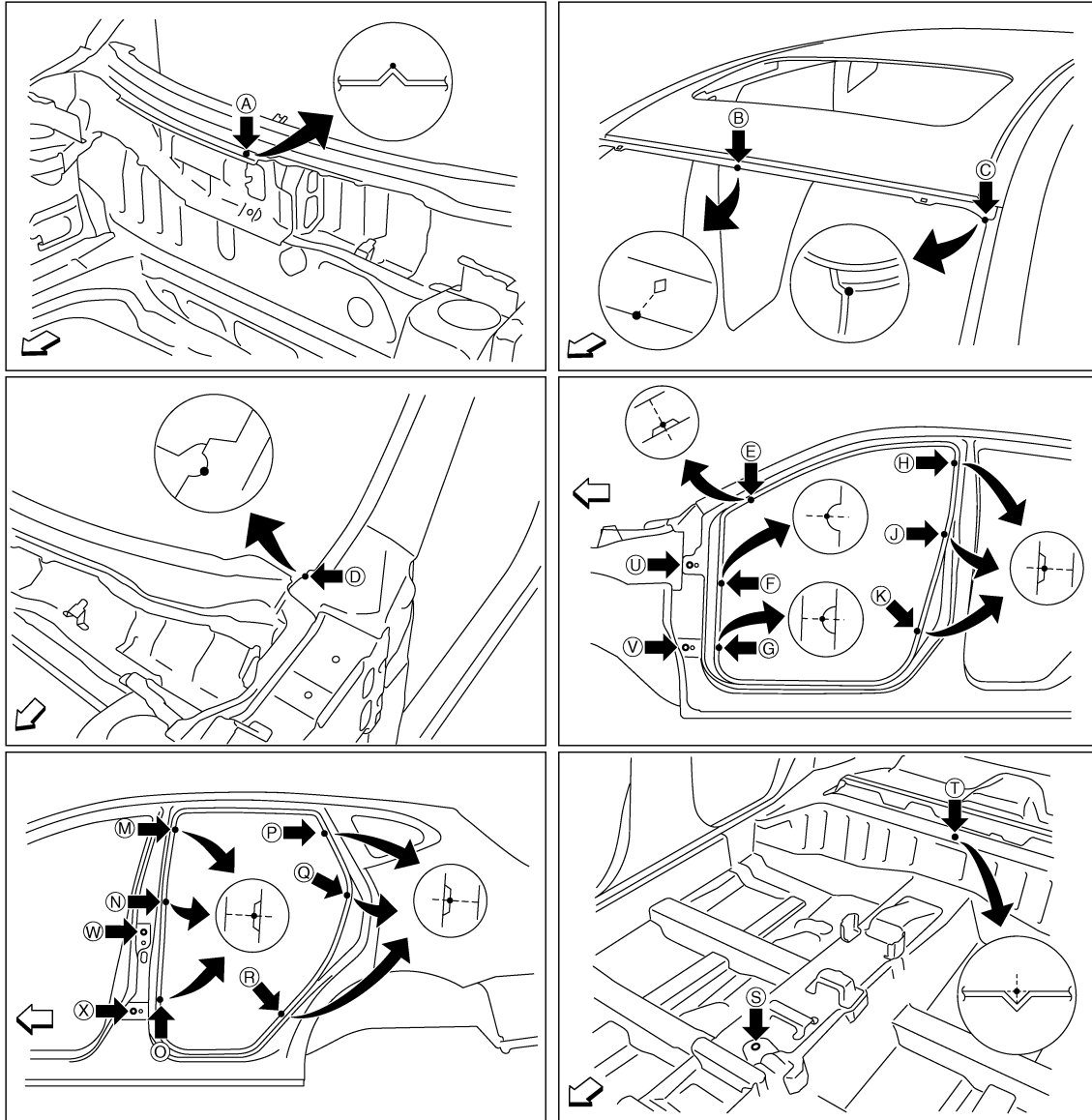
Point	Dimension	Memo	Point	Dimension	Memo	Point	Dimension	Memo	Point	Dimension	Memo
E - e	1421 (55.94)		K - k	1462 (57.56)		Q - q	1404 (55.28)		T - Q	1055 (41.54)*	
E - g	1574 (64.97)*		M - m	1263 (49.72)		R - r	1457 (57.36)		T - R	776 (30.55)*	
E - h	1643 (64.68)*		M - o	1562 (61.50)*		S - E	1089 (42.87)*		U - u	1583 (62.32)	
E - k	1707 (67.20)*		M - p	1429 (56.26)*		S - F	951 (37.44)*		U - W	1165 (45.87)*	
F - f	1445 (56.89)		M - r	1663 (65.47)*		S - G	890 (35.04)*		U - X	1150 (45.28)*	
F - j	1760 (69.29)*		N - n	1461 (57.52)		S - H	1267 (49.88)*		V - v	1608 (63.31)	
G - g	1458 (57.40)		N - q	1637 (64.45)*		S - J	1071 (42.17)*		V - W	1229 (48.39)*	
G - h	1911 (75.24)*		O - o	1462 (57.56)		S - K	838 (32.99)*		V - X	1117 (43.98)*	
G - k	1696 (66.77)*		O - p	1707 (67.20)*		T - M	1103 (43.43)*		W - w	1613 (63.50)	
H - h	1267 (49.88)		O - r	1556 (61.26)*		T - N	944 (37.17)*		X - x	1636 (64.41)	
H - k	1572 (61.89)*		P - p	1253 (49.33)		T - O	790 (31.10)*				
J - j	1463 (57.60)		P - r	1584 (62.36)*		T - P	1149 (45.24)*				

MEASUREMENT POINTS

BODY ALIGNMENT

< SERVICE DATA AND SPECIFICATIONS (SDS)

[FOR USA AND CANADA]



JSKIA0432GB

← Vehicle front

Unit: mm (in)

Point	Material	Point	Material
A	Center cowl top positioning mark of center positioning mark	P, p, Q, q, R, r	Rear fender indent
B	Roof flange end of center positioning mark	S	Trans control reinforcement hole center of center positioning mark 14×12 (0.55×0.47)
C, c	Front pillar joggle	T	Rear seat crossmember positioning mark of center positioning mark
D, d, E, e, F, f, G, g	Front pillar indent	U, u, V, v, W, w, X, x	Door hinge installing hole center U, u, V, v, X, x: $\phi 12$ (0.47) W, w: $\phi 9$ (0.35)
H, h, J, j, K, k, M, m, N, n, O, o	Center pillar indent		

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BODY ALIGNMENT

< SERVICE DATA AND SPECIFICATIONS (SDS)

[FOR USA AND CANADA]

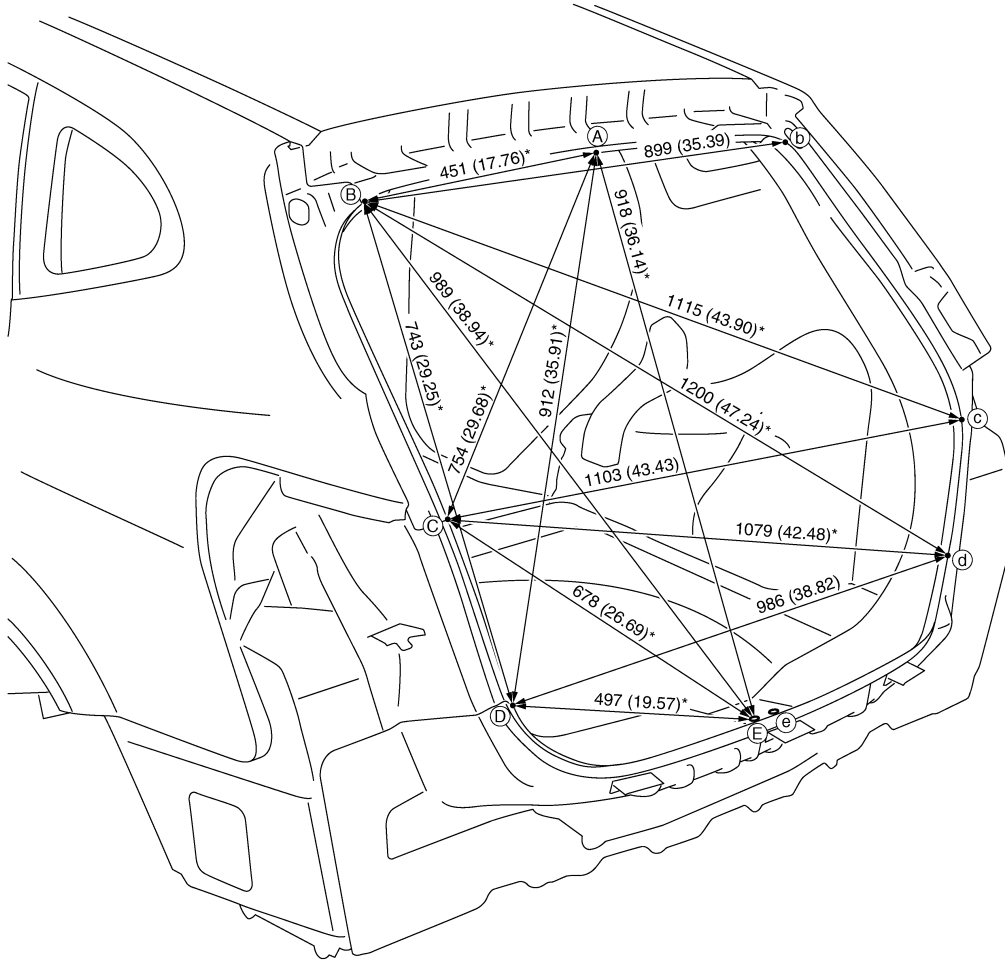
Rear Body

INFOID:000000008282498

MEASUREMENT

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

Unit : mm (in)



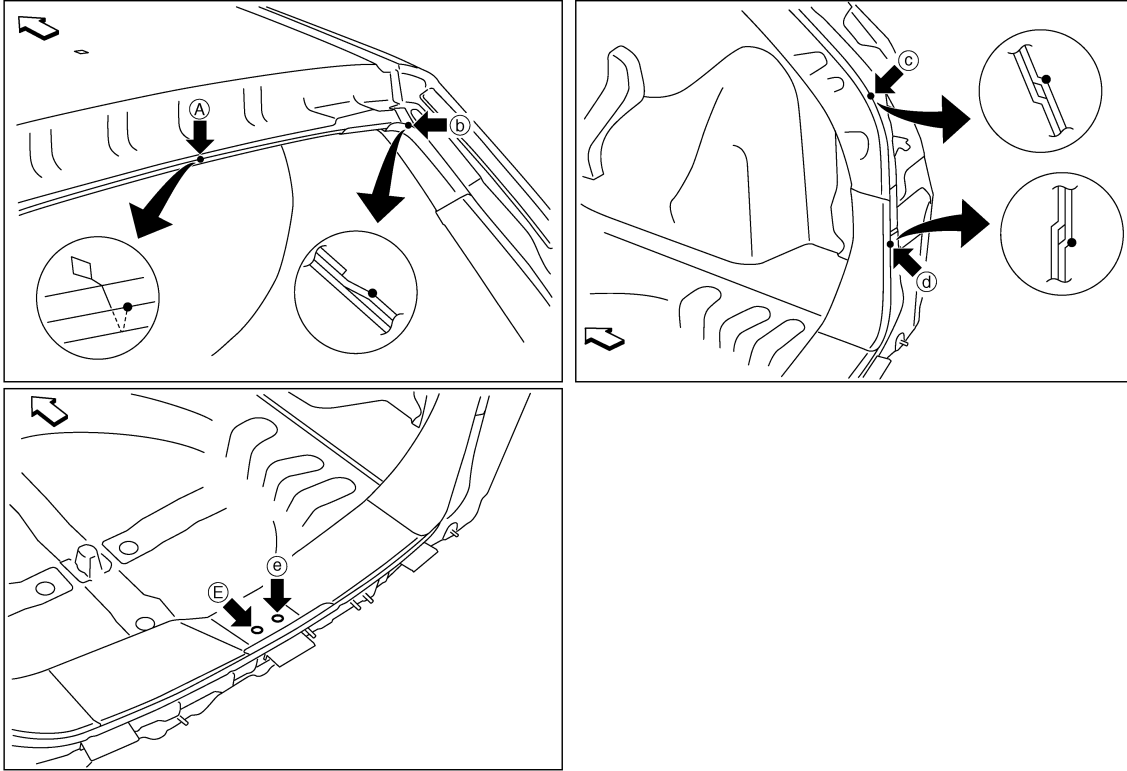
JSKIA0433GB

MEASUREMENT POINTS

BODY ALIGNMENT

< SERVICE DATA AND SPECIFICATIONS (SDS)

[FOR USA AND CANADA]



JSKIA0434GB

←: Vehicle front

Unit: mm (in)

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 corner joggle	E, e	Back door striker installing square hole center 13×13 (0.51×0.51)

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LOCATION OF PLASTIC PARTS

< SERVICE DATA AND SPECIFICATIONS (SDS)

[FOR USA AND CANADA]

LOCATION OF PLASTIC PARTS

Precautions for Plastics

INFOID:000000008282499

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.	—
AES	Acrylonitrile Ethylene Styrene	80 (176)	↑	—
EPM/EPDM	Ethylene Propylene (Diene) copolymer	80 (176)	Gasoline and most solvents are harmless if applied for a very short time (wipe out quickly).	Flammable
PS	Polystyrene	80 (176)	Avoid solvents.	Flammable
PVC	Poly Vinyl Chloride	80 (176)	Gasoline and most solvents are harmless if applied for a very short time (wipe out quickly).	Poisonous gas is emitted when burned.
TPO	Thermoplastic Olefine	80 (176)	↑	Flammable
AAS	Acrylonitrile Acrylic Styrene	85 (185)	Avoid gasoline and solvents.	—
PMMA	Poly Methyl Methacrylate	85 (185)	↑	—
EVAC	Ethylene Vinyl Acetate	90 (194)	↑	—
PP	Polypropylene	90 (194)	Gasoline and most solvents are harmless if applied for a very short time (wipe out quickly).	Flammable, avoid battery acid.
PUR	Polyurethane	90 (194)	Avoid gasoline and solvents.	—
UP	Unsaturated Polyester	90 (194)	↑	Flammable
ASA	Acrylonitrile Styrene Acrylate	100 (212)	↑	Flammable
PPE	Poly Phenylene Ether	110 (230)	↑	—
TPU	Thermoplastic Urethane	110 (230)	↑	—
PBT+PC	Poly Butylene Terephthalate + Polycarbonate	120 (248)	↑	Flammable
PC	Polycarbonate	120 (248)	↑	—
POM	Poly Oxymethylene	120 (248)	↑	Avoid battery acid.
PA	Polyamide	140 (284)	↑	Avoid immersing in water.
PBT	Poly Butylene Terephthalate	140 (284)	↑	—
PAR	Polyarylate	180 (356)	↑	—
PET	Polyethylene terephthalate	180 (356)	↑	—
PEI	Polyetherimide	200 (392)	↑	—

CAUTION:

- When repairing and painting a portion of the body adjacent to plastic parts, consider their characteristics (influence of heat and solvent) and remove them if necessary or take suitable measures to protect them.
- Plastic parts should be repaired and painted using methods suiting the materials' characteristics.

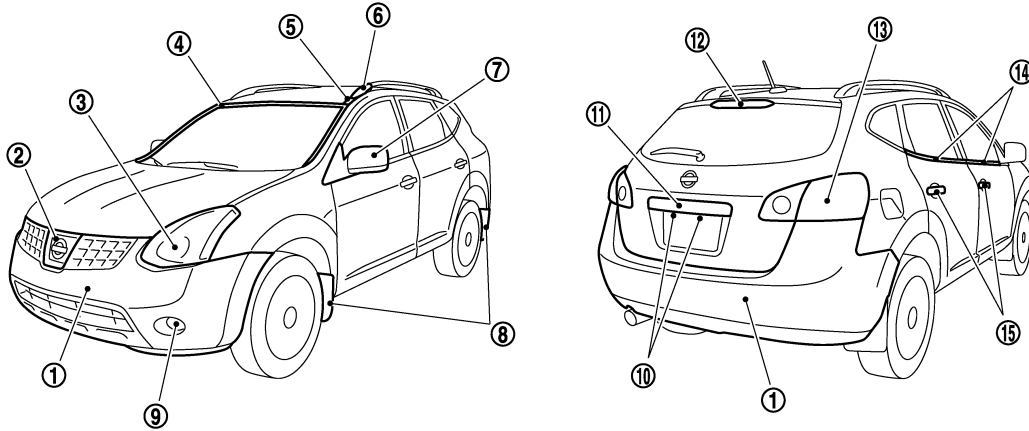
LOCATION OF PLASTIC PARTS

< SERVICE DATA AND SPECIFICATIONS (SDS)

[FOR USA AND CANADA]

Location of Plastic Parts

INFOID:000000008282500



JSKIA0436GB

Component		Material	Component		Material		
1	Bumper fascia	PP + EPM	9	Front fog lamp	Lens	Glass	
2	Front bumper molding	ABS			Housing	PBT + ASA + Glass fiber	
3	Front combination lamp	Lens	10	License plate lamp	Lens	PC	
		Housing			PP	Housing	PC
4	Windshield molding	PVC	11	Back door finisher	ABS		
5	Roof side molding	PVC + Stainless	12	High mount stop lamp	Lens	PMMA	
6	Roof rack cover	ABS			Housing	ABS	
7	Door outside mirror	Cover	13	Rear combination lamp	Lens	PMMA	
		Housing			PP	Housing	ASA
		Base			PA	14	Door outside molding
8	Mudguard	PP + EPDM	15	Door outside handle	PC + PET		

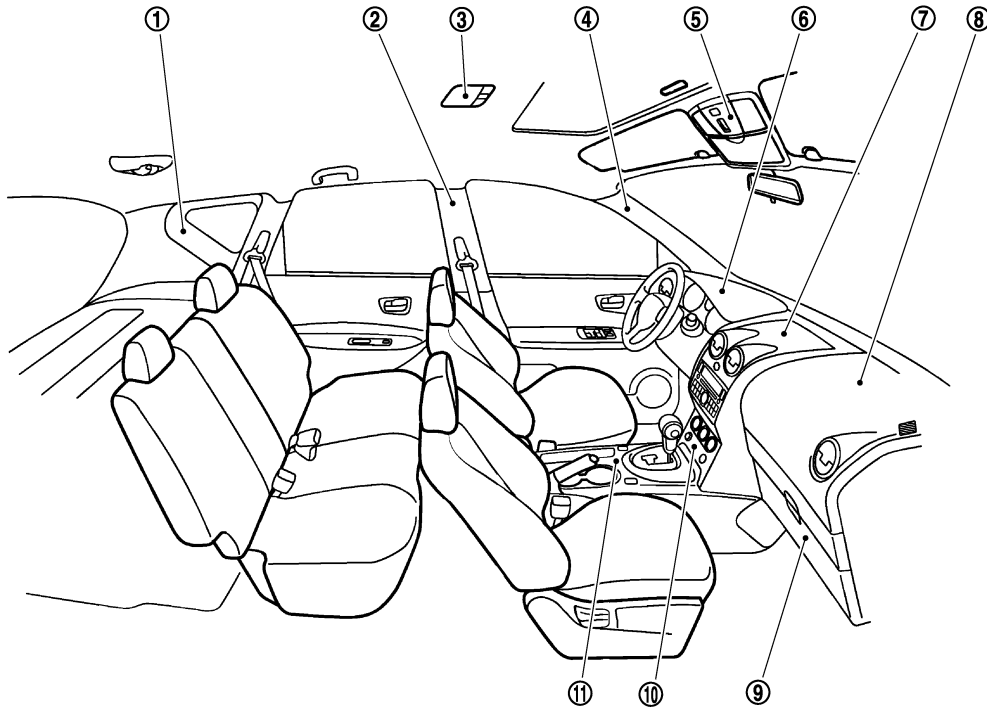
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LOCATION OF PLASTIC PARTS

< SERVICE DATA AND SPECIFICATIONS (SDS)

[FOR USA AND CANADA]



JSKIA0437GB

Component		Material	Component		Material		
1	Luggage side finisher	PP	7	Cluster lid C	PC + ABS		
2	Center pillar garnish	PP	8	Instrument panel	Skin	TPO	
3	Room lamp	Lens			PC	Pad	PUR
		Housing			PA	Core	PP
4	Front pillar garnish	PP	9	Glove box	PP		
5	Map lamp	Lens	PC	10	Heater control finisher	PP	
		Housing	PP	11	Center console	PP	
6	Meter cover	PP					

BODY ALIGNMENT

< SERVICE DATA AND SPECIFICATIONS (SDS)

[FOR MEXICO]

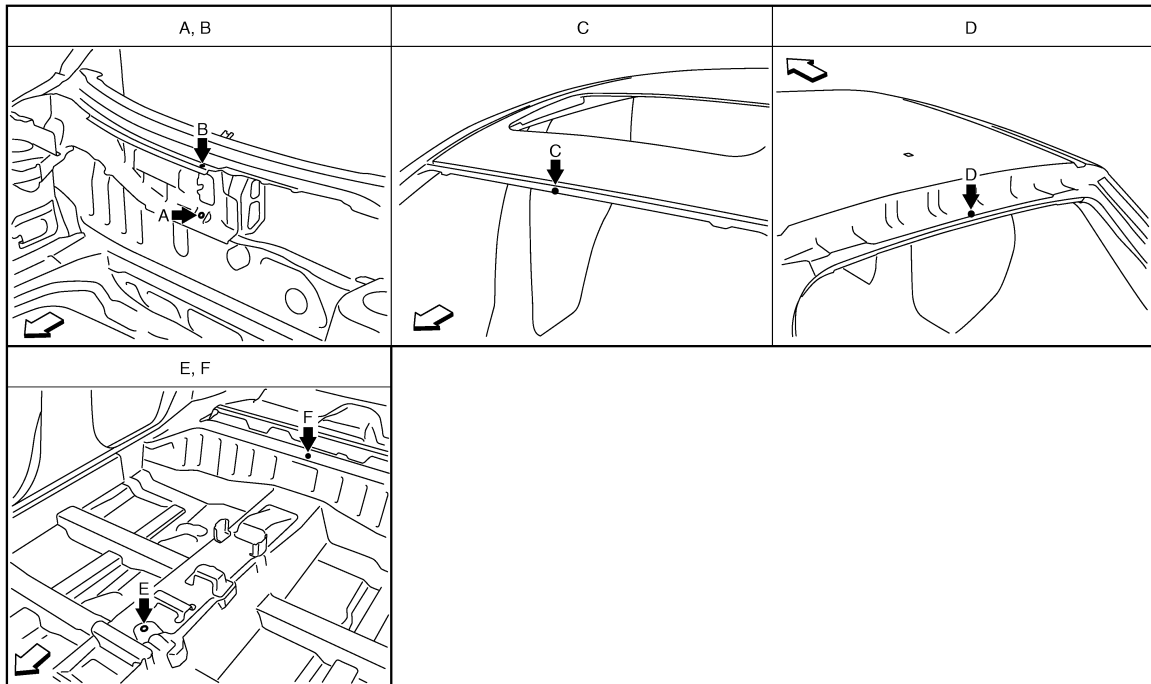
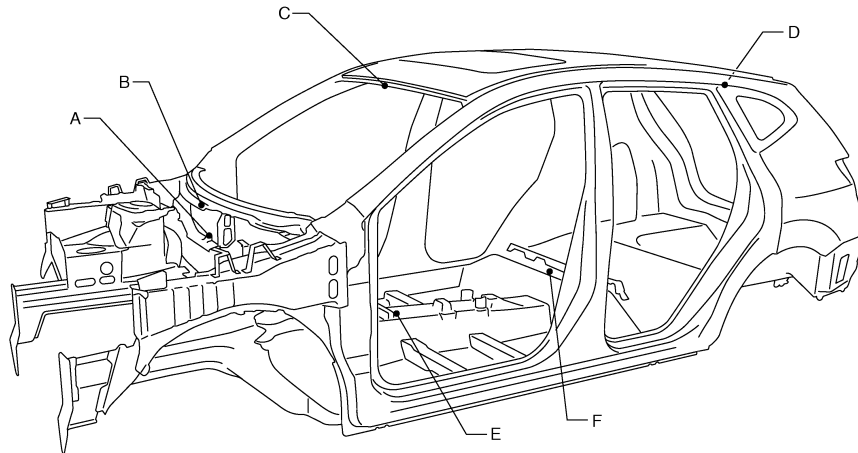
SERVICE DATA AND SPECIFICATIONS (SDS)

BODY ALIGNMENT

Body Center Marks

INFOID:000000008282501

A mark has been placed on each part of the body to indicate the vehicle center. When repairing parts damaged by an accident which might affect the vehicle frame (members, pillars, etc.), more accurate and effective repair will be possible by using these marks together with body alignment specifications.



JSKIA0447GB

↶ Vehicle front

Unit: mm (in)

Points	Portion	Marks
A	Cowl top extension	Hole $\phi 7$ (0.28)
B	Center cowl top	Embossment
C	Front roof	Embossment
D	Rear roof	Embossment

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BODY ALIGNMENT

< SERVICE DATA AND SPECIFICATIONS (SDS)

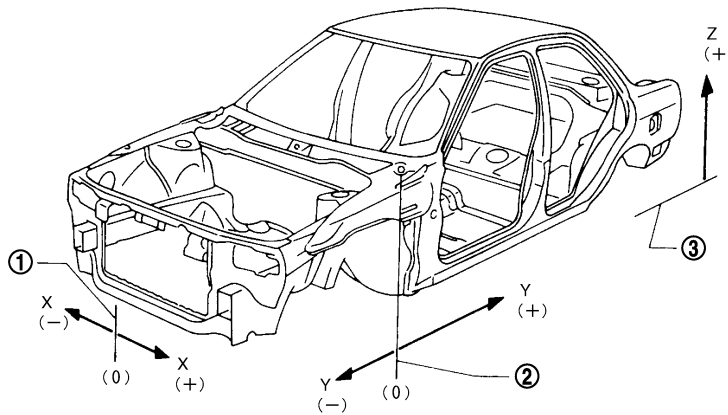
[FOR MEXICO]

Points	Portion	Marks
E	Trans control reinforcement	Hole 14×12 (0.55×0.47)
F	Rear seat crossmember	Embossment

Description

INFOID:000000008282502

- All dimensions indicated in the figures are actual.
- When using a tracking gauge, adjust both pointers to equal length. Then check the pointers and gauge itself to make sure there is no free play.
- When a measuring tape is used, check to be sure there is no elongation, twisting or bending.
- Measurements should be taken at the center of the mounting holes.
- An asterisk (*) following the value at the measuring point indicates that the measuring point on the other side is symmetrically the same value.
- The coordinates of the measurement points are the distances measured from the standard line of "X", "Y" and "Z".
- "Z": Imaginary base line [200 mm (7.87 in) below datum line ("0Z" at design plan)]



JSKIA0073GB

1. Vehicle center

2. Front axle center

3. Imaginary base line

Engine Compartment

INFOID:000000008282503

MEASUREMENT

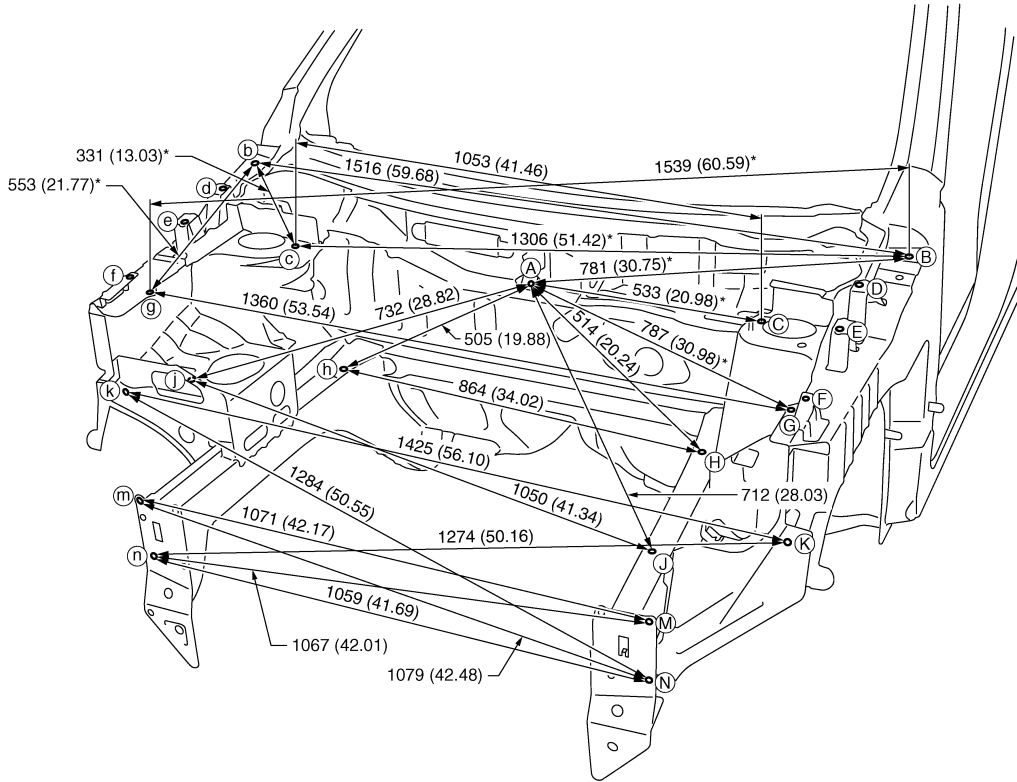
BODY ALIGNMENT

< SERVICE DATA AND SPECIFICATIONS (SDS)

[FOR MEXICO]

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

Unit : mm (in)



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JSKIA0427GB

«The others»

Unit: mm (in)

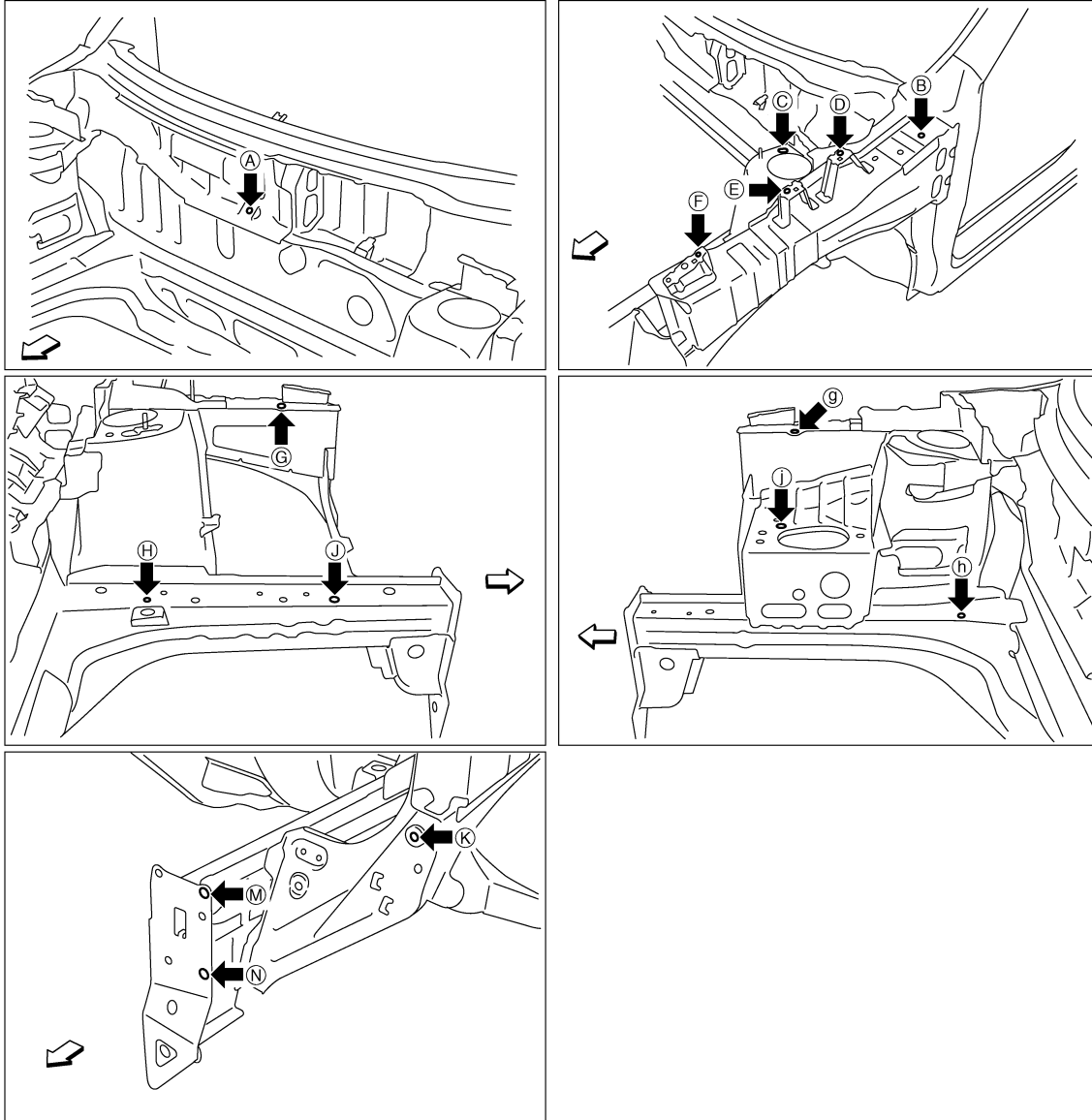
Point	Dimension	Memo	Point	Dimension	Memo	Point	Dimension	Memo	Point	Dimension	Memo
A - D	725 (28.54)*		A - F	827 (32.56)*		D - F	361 (14.21)*		E - e	1425 (56.10)	
A - E	750 (29.53)*		D - d	1418 (55.83)		D - f	1466 (57.72)*		F - f	1423 (56.02)	

MEASUREMENT POINTS

BODY ALIGNMENT

< SERVICE DATA AND SPECIFICATIONS (SDS)

[FOR MEXICO]



JSKIA0428GB

↶: Vehicle front

Unit: mm (in)

Point	Material	Point	Material
A	Cowl top extension hole center of center positioning mark $\phi 7$ (0.28)	J	Front side member hole center $\phi 14$ (0.55)
B, b	Hood hinge installing hole center $\phi 12$ (0.47)	j	Engine mounting bracket installing hole center $\phi 12$ (0.47)
C, c	Front strut installing hole center 16×10 (0.63×0.39)	K, k	Hoodedge connector hole center $\phi 12$ (0.47)
D, d, E, e, F, f	Upper front fender bracket hole center $\phi 7$ (0.28)	M, m	Front side member connector hole center 13×12 (0.51×0.47)

BODY ALIGNMENT

< SERVICE DATA AND SPECIFICATIONS (SDS)

[FOR MEXICO]

Point	Material	Point	Material
G, g	Hoodledge reinforcement hole center φ8 (0.31)	N, n	Front side member connector hole center N: φ15 (0.59) n: φ13 (0.51)
H, h	Front side member hole center H: φ7 (0.28) h: φ8 (0.31)		

Underbody

INFOID:000000008282504

MEASUREMENT

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

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P

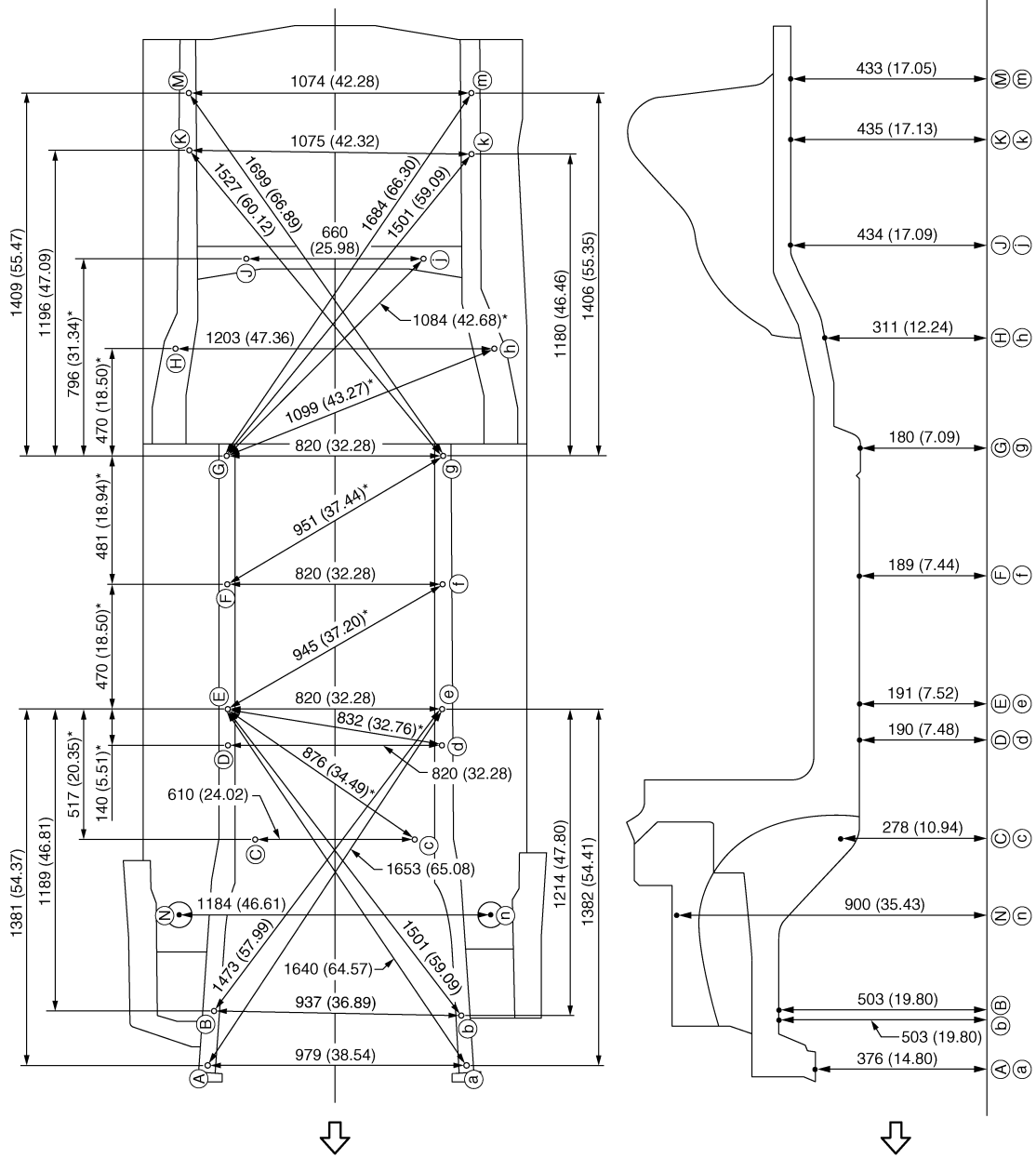
BRM

BODY ALIGNMENT

< SERVICE DATA AND SPECIFICATIONS (SDS)

[FOR MEXICO]

Unit : mm (in)



JSKIA0429GB

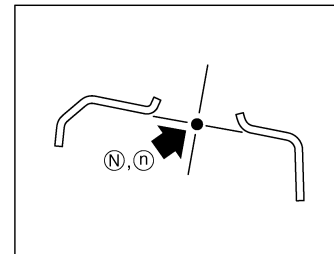
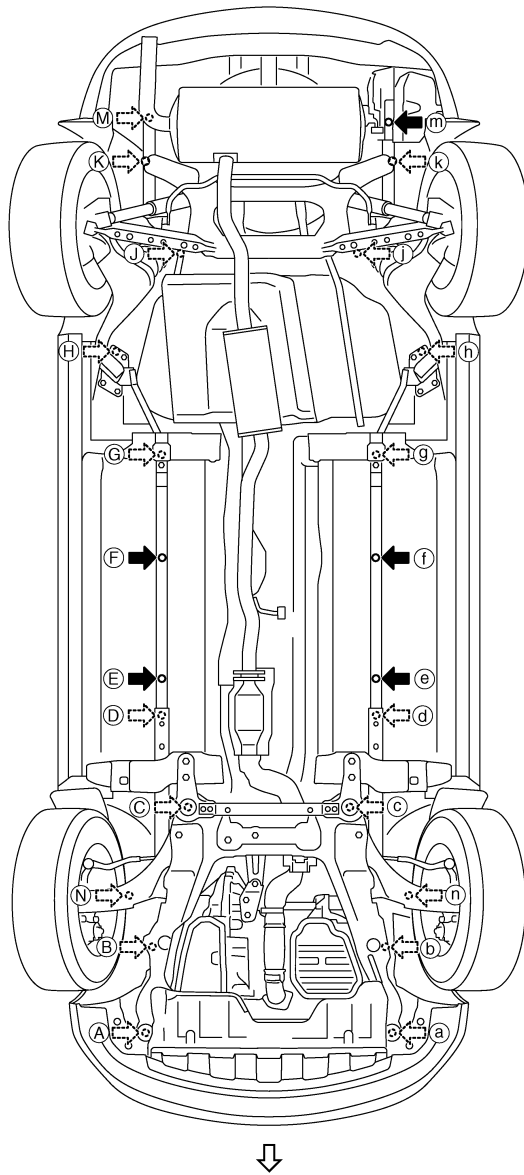
← Vehicle front

MEASUREMENT POINTS

BODY ALIGNMENT

< SERVICE DATA AND SPECIFICATIONS (SDS)

[FOR MEXICO]



JSKIA0430GB

←: Vehicle front

Unit: mm (in)

Points	Coordinates			Remarks	Points	Coordinates			Remarks
	X	Y	Z			X	Y	Z	
A	478	-567	376	Hole ϕ 18 (0.71)	G, g	\pm 410	1751	180	Hole ϕ 13 (0.51)
a	-501	-567	376	Hole ϕ 18 (0.71)	H, h	\pm 601	2159	311	Hole ϕ 15 (0.59)
B	462	-346	503	Hole ϕ 16 (0.63)	J, j	\pm 330	2501	234	J: Hole ϕ 30 (1.18) j: Hole 32 \times 30 (1.26 \times 1.18)
b	-475	-372	503	Hole ϕ 16(0.63)	K	549	2911	435	Hole ϕ 20 (0.79)
C, c	\pm 305	301	278	C: Hole ϕ 30 (1.18) c: Hole 32 \times 30 (1.26 \times 1.18)	k	-526	2897	435	Hole ϕ 20 (0.79)
D, d	\pm 410	660	190	Hole ϕ 14 (0.55)	M	551	3130	433	Hole ϕ 16 (0.63)
E, e	\pm 410	800	191	Hole ϕ 12 (0.47)	m	-524	3130	433	Hole ϕ 16 (0.63)
F, f	\pm 410	1270	189	Hole ϕ 12 (0.47)	N, n	\pm 592	12	900	Hole ϕ 103 (4.06)

BODY ALIGNMENT

< SERVICE DATA AND SPECIFICATIONS (SDS)

[FOR MEXICO]

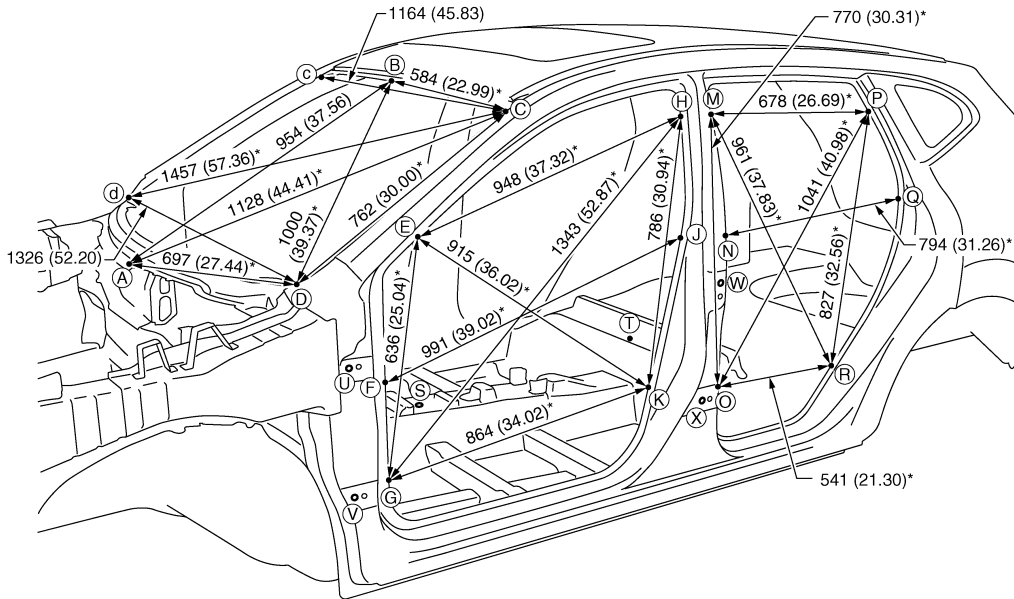
Passenger Compartment

INFOID:000000008282505

MEASUREMENT

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

Unit : mm (in)



JSKIA0431GB

«The others»

Unit: mm (in)

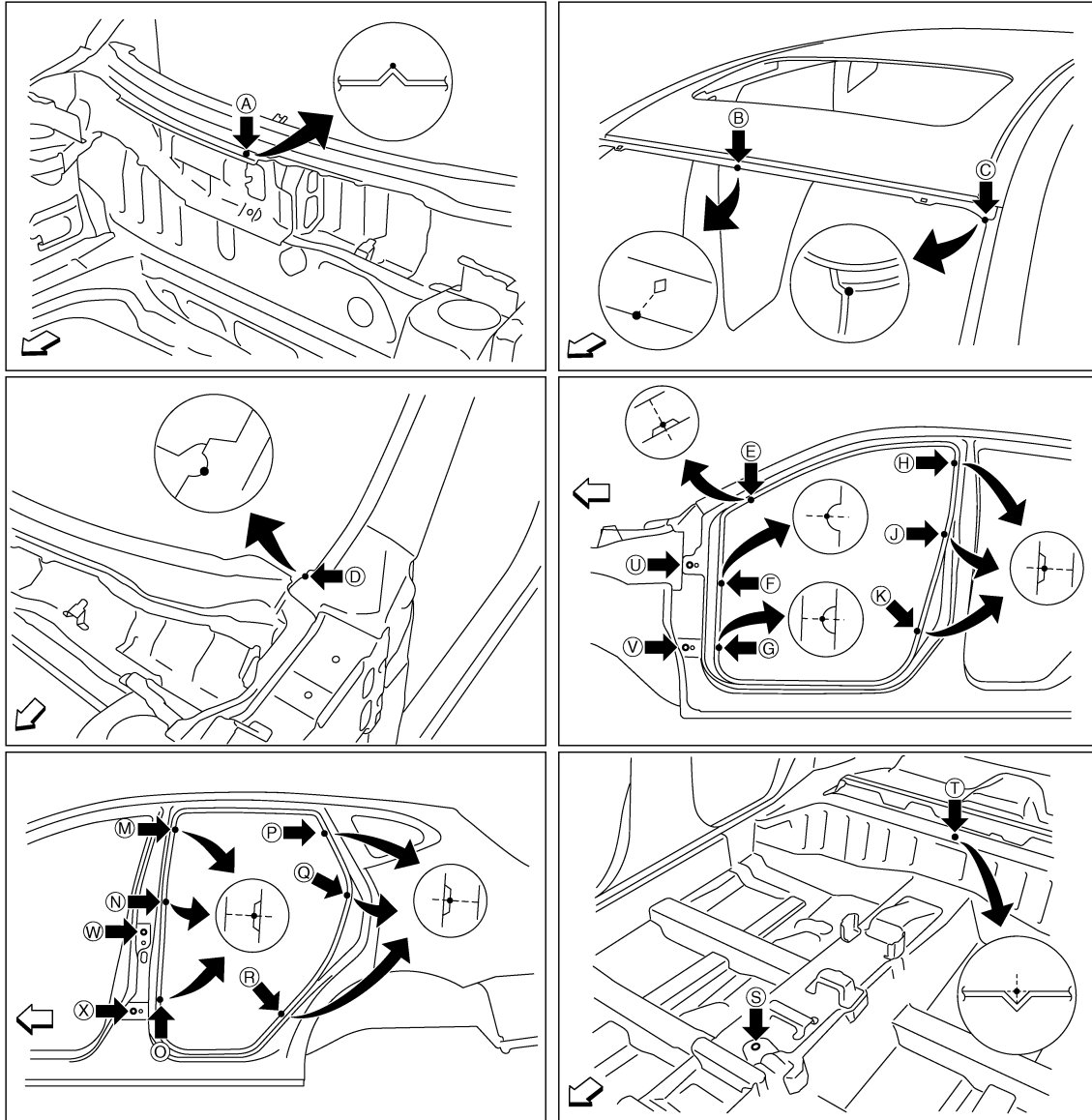
Point	Dimension	Memo	Point	Dimension	Memo	Point	Dimension	Memo	Point	Dimension	Memo
E - e	1421 (55.94)		K - k	1462 (57.56)		Q - q	1404 (55.28)		T - Q	1055 (41.54)*	
E - g	1574 (64.97)*		M - m	1263 (49.72)		R - r	1457 (57.36)		T - R	776 (30.55)*	
E - h	1643 (64.68)*		M - o	1562 (61.50)*		S - E	1089 (42.87)*		U - u	1583 (62.32)	
E - k	1707 (67.20)*		M - p	1429 (56.26)*		S - F	951 (37.44)*		U - W	1165 (45.87)*	
F - f	1445 (56.89)		M - r	1663 (65.47)*		S - G	890 (35.04)*		U - X	1150 (45.28)*	
F - j	1760 (69.29)*		N - n	1461 (57.52)		S - H	1267 (49.88)*		V - v	1608 (63.31)	
G - g	1458 (57.40)		N - q	1637 (64.45)*		S - J	1071 (42.17)*		V - W	1229 (48.39)*	
G - h	1911 (75.24)*		O - o	1462 (57.56)		S - K	838 (32.99)*		V - X	1117 (43.98)*	
G - k	1696 (66.77)*		O - p	1707 (67.20)*		T - M	1103 (43.43)*		W - w	1613 (63.50)	
H - h	1267 (49.88)		O - r	1556 (61.26)*		T - N	944 (37.17)*		X - x	1636 (64.41)	
H - k	1572 (61.89)*		P - p	1253 (49.33)		T - O	790 (31.10)*				
J - j	1463 (57.60)		P - r	1584 (62.36)*		T - P	1149 (45.24)*				

MEASUREMENT POINTS

BODY ALIGNMENT

< SERVICE DATA AND SPECIFICATIONS (SDS)

[FOR MEXICO]



JSKIA0432GB

↔: Vehicle front

Unit: mm (in)

Point	Material	Point	Material
A	Center cowl top positioning mark of center positioning mark	P, p, Q, q, R, r	Rear fender indent
B	Roof flange end of center positioning mark	S	Trans control reinforcement hole center of center positioning mark 14×12 (0.55×0.47)
C, c	Front pillar joggle	T	Rear seat crossmember positioning mark of center positioning mark
D, d, E, e, F, f, G, g	Front pillar indent	U, u, V, v, W, w, X, x	Door hinge installing hole center U, u, V, v, X, x: $\phi 12$ (0.47) W, w: $\phi 9$ (0.35)
H, h, J, j, K, k, M, m, N, n, O, o	Center pillar indent		

A
B
C
D
E
F
G
H
I
J
L
M
N
O
P

BRM

BODY ALIGNMENT

< SERVICE DATA AND SPECIFICATIONS (SDS)

[FOR MEXICO]

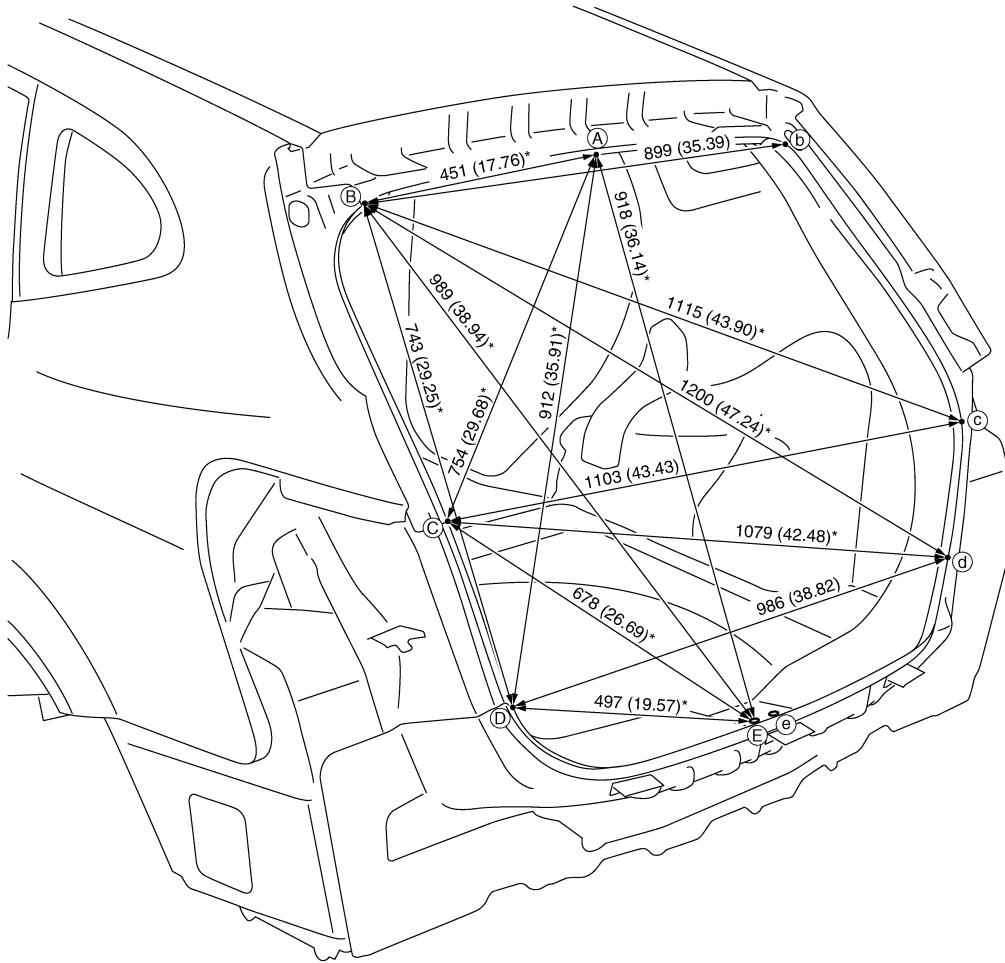
Rear Body

INFOID:000000008282506

MEASUREMENT

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

Unit : mm (in)



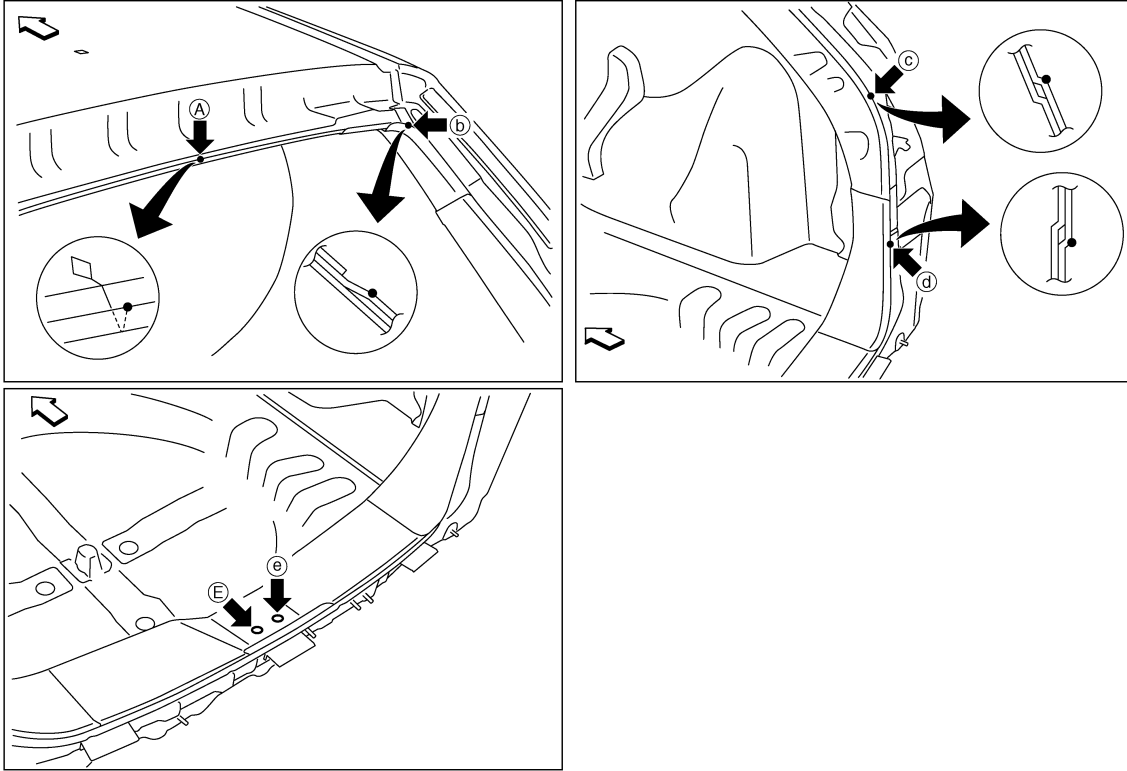
JSKIA0433GB

MEASUREMENT POINTS

BODY ALIGNMENT

< SERVICE DATA AND SPECIFICATIONS (SDS)

[FOR MEXICO]



JSKIA0434GB

←: Vehicle front

Unit: mm (in)

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 corner joggle	E, e	Back door striker installing square hole center 13×13 (0.51×0.51)

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P

BRM