

SECTION **BRM**  
 BODY REPAIR

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&lt; PRECAUTION &gt;

## PRECAUTION

### PRECAUTIONS

#### Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

INFOID:000000006391107

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the SR and SB section of this Service Manual.

**WARNING:**

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SR section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

#### PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

**WARNING:**

- When working near the Airbag Diagnosis Sensor Unit or other Airbag System sensors with the Ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the Ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

#### Precautions Necessary for Steering Wheel Rotation After Battery Disconnect

INFOID:000000006934875

**NOTE:**

- Before removing and installing any control units, first turn the push-button ignition switch to the LOCK position, then disconnect both battery cables.
- After finishing work, confirm that all control unit connectors are connected properly, then re-connect both battery cables.
- Always use CONSULT to perform self-diagnosis as a part of each function inspection after finishing work. If a DTC is detected, perform trouble diagnosis according to self-diagnosis results.

This vehicle is equipped with a push-button ignition switch and a steering lock unit.

If the battery is disconnected or discharged, the steering wheel will lock and cannot be turned.

If turning the steering wheel is required with the battery disconnected or discharged, follow the procedure below before starting the repair operation.

#### OPERATION PROCEDURE

1. Connect both battery cables.

**NOTE:**

Supply power using jumper cables if battery is discharged.

2. Carry the Intelligent Key or insert it to the key slot and turn the push-button ignition switch to ACC position. (At this time, the steering lock will be released.)
3. Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.
4. Perform the necessary repair operation.

## PRECAUTIONS

< PRECAUTION >

[COUPE]

5. When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the push-button ignition switch from ACC position to ON position, then to LOCK position. (The steering wheel will lock when the push-button ignition switch is turned to LOCK position.)
6. Perform self-diagnosis check of all control units using CONSULT.

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# BODY ALIGNMENT

< REMOVAL AND INSTALLATION >

[COUPE]

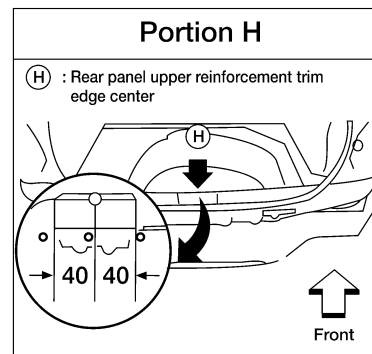
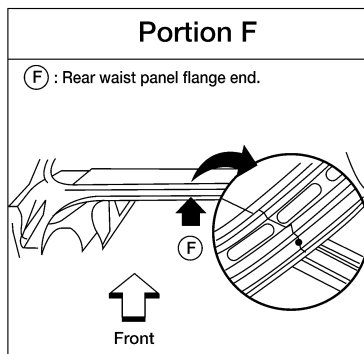
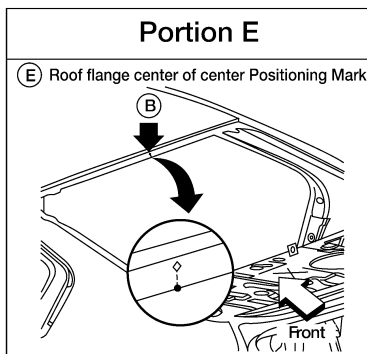
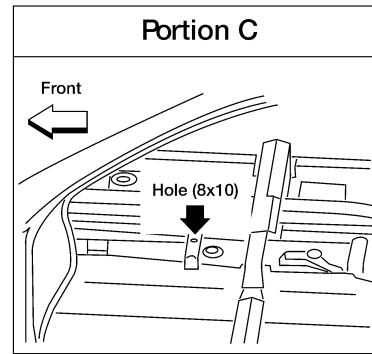
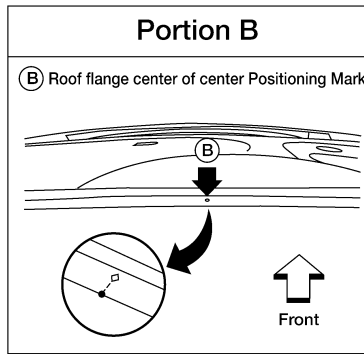
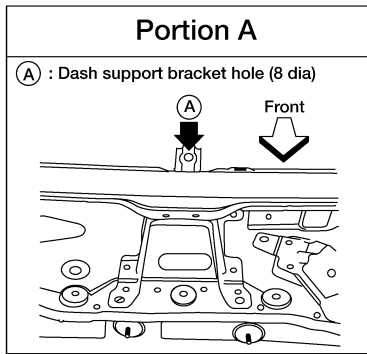
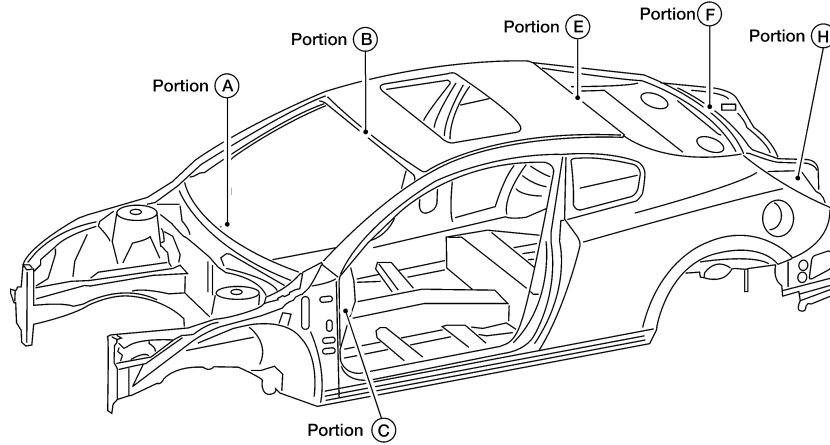
## REMOVAL AND INSTALLATION

### BODY ALIGNMENT

#### Body Center Marks

INFOID:000000006391109

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.



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# BODY ALIGNMENT

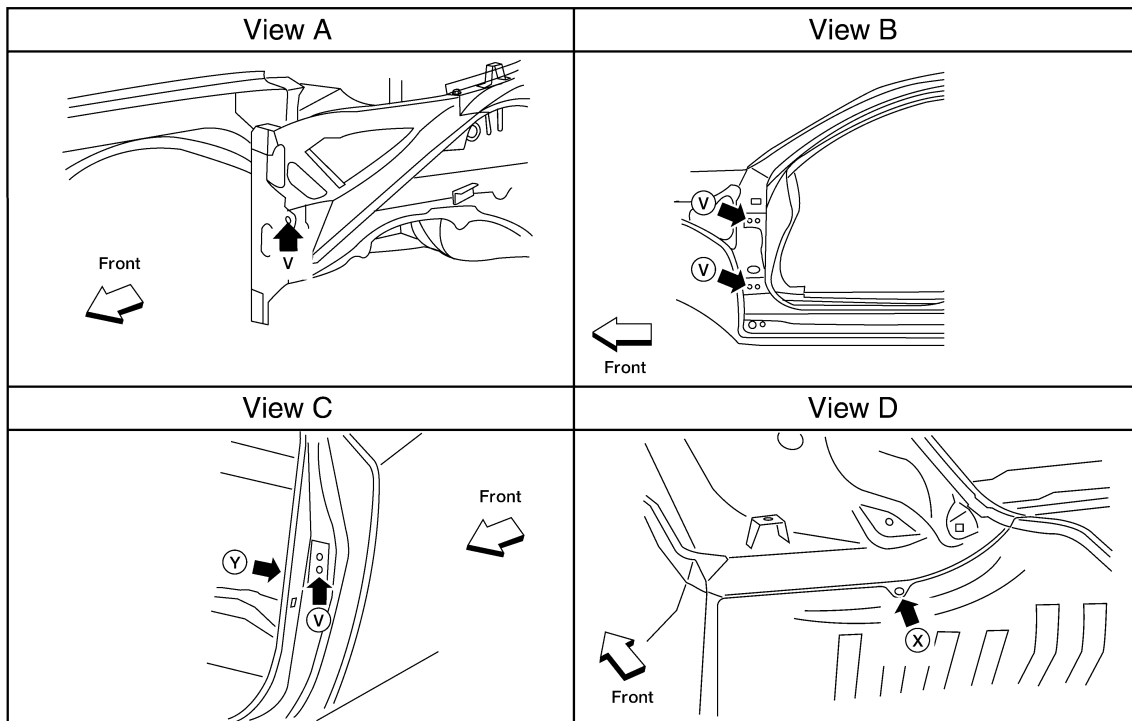
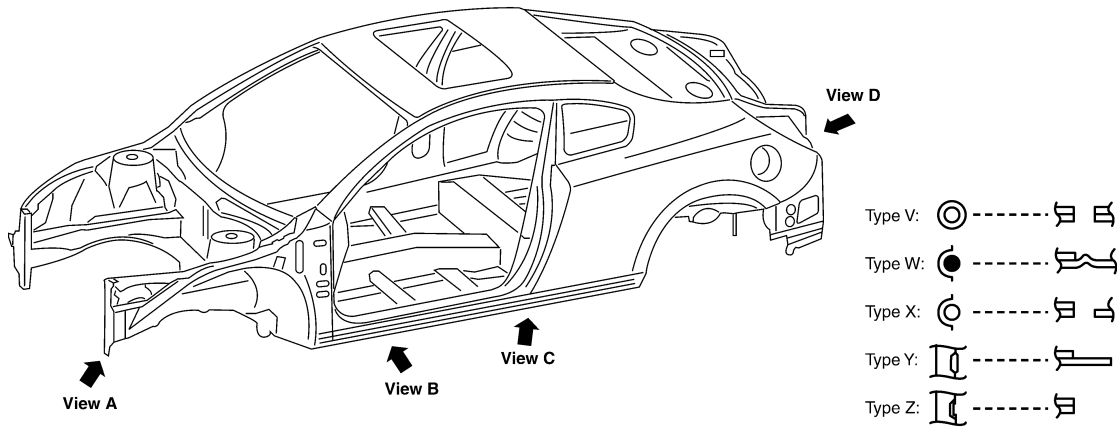
< REMOVAL AND INSTALLATION >

[COUPE]

INFOID:000000006391110

## Panel Parts Matching Marks

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



ALKIA0801GB

INFOID:000000006391111

## Description

- 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".

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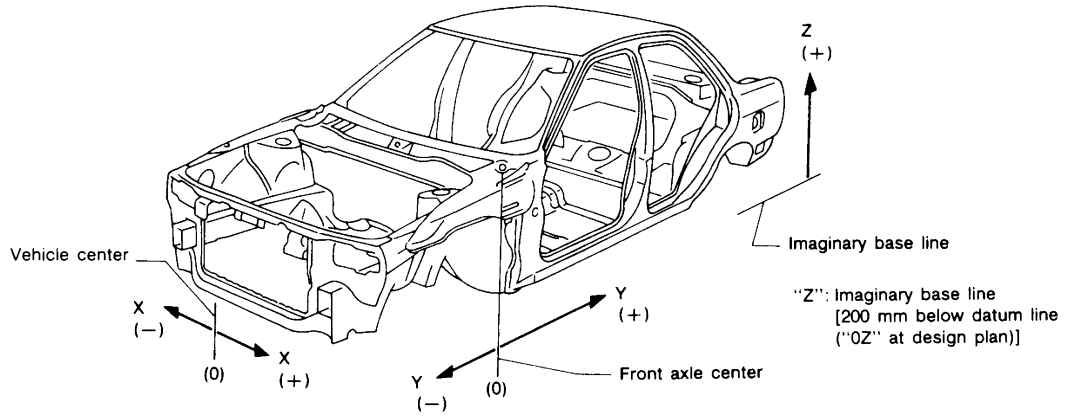
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# BODY ALIGNMENT

< REMOVAL AND INSTALLATION >

[COUPE]



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# BODY ALIGNMENT

< REMOVAL AND INSTALLATION >

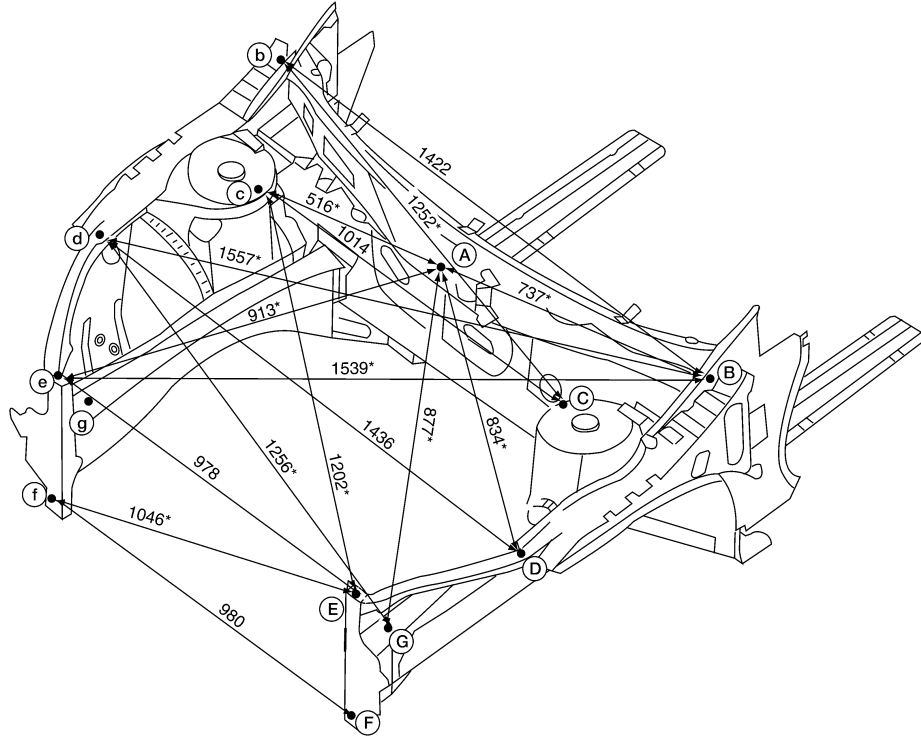
[COUPE]

## Engine Compartment

INFOID:000000006391112

### Measurement

Figures marked with a (\*) indicate symmetrically identical dimensions on both right and left sides of the vehicle.



Point	Dimension
(B) ~ (D)	617*
(B) ~ (E)	989*
(B) ~ (G)	1512*
(C) ~ (B)	1268*
(C) ~ (D)	389*
(C) ~ (E)	673*
(C) ~ (G)	630*
(C) ~ (g)	1182*
(D) ~ (G)	394*
(E) ~ (G)	201*
(G) ~ (g)	990

Unit : mm

ALKIA0802GB

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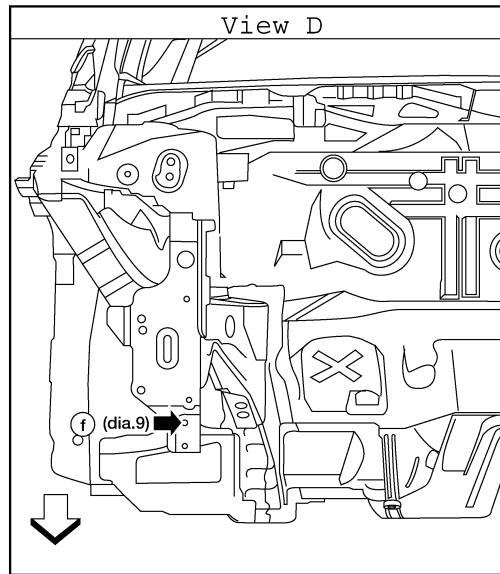
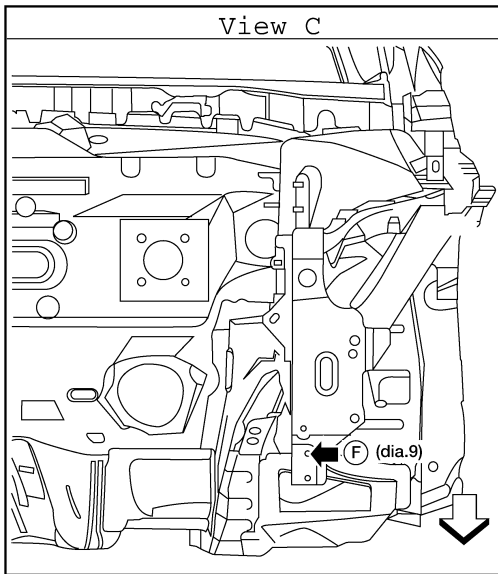
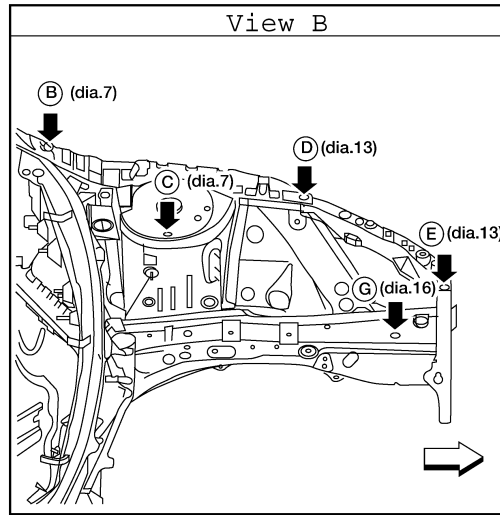
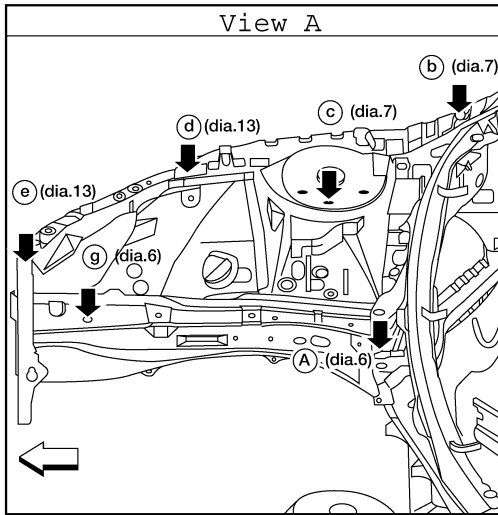
BRM

# BODY ALIGNMENT

< REMOVAL AND INSTALLATION >

[COUPE]

## Measurement Points



Unit : mm

AWKIA0389GB

← : Front



# BODY ALIGNMENT

< REMOVAL AND INSTALLATION >

[COUPE]

INFOID:000000006391113

## Underbody

### Measurement

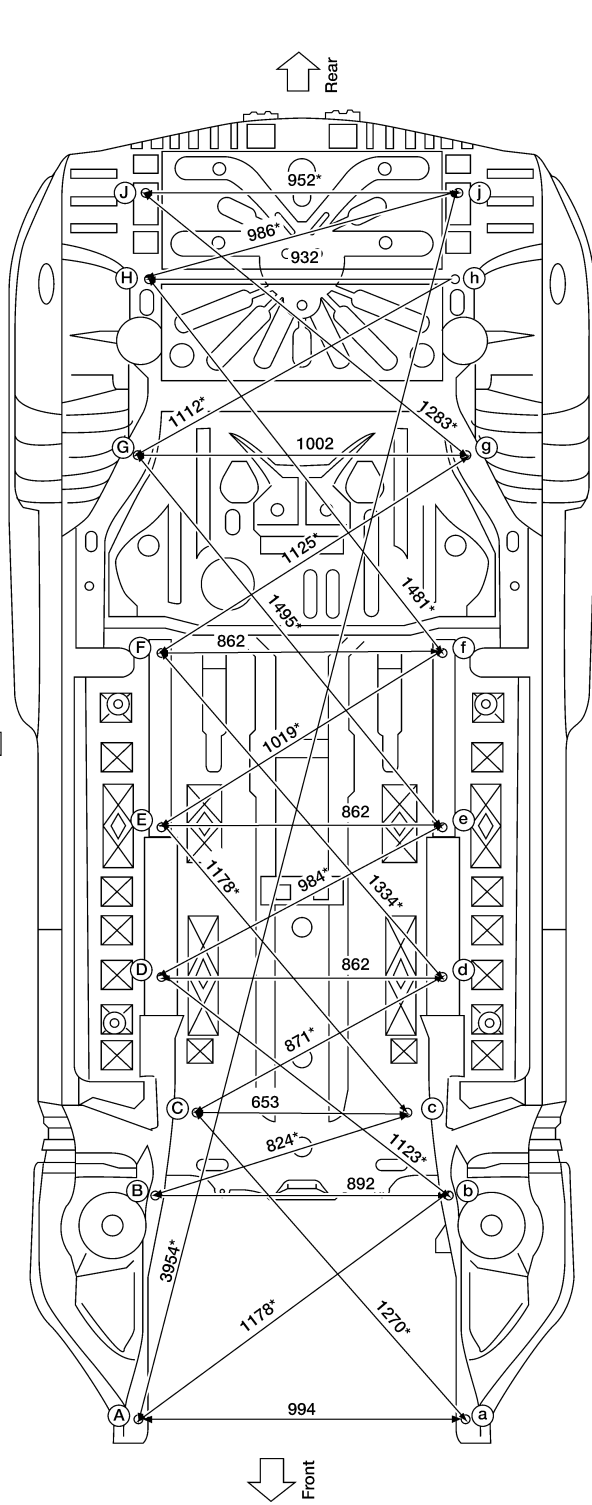
Figures marked with a (\*) indicate symmetrically identical dimensions on both right and left hand sides of the vehicle.

LH side

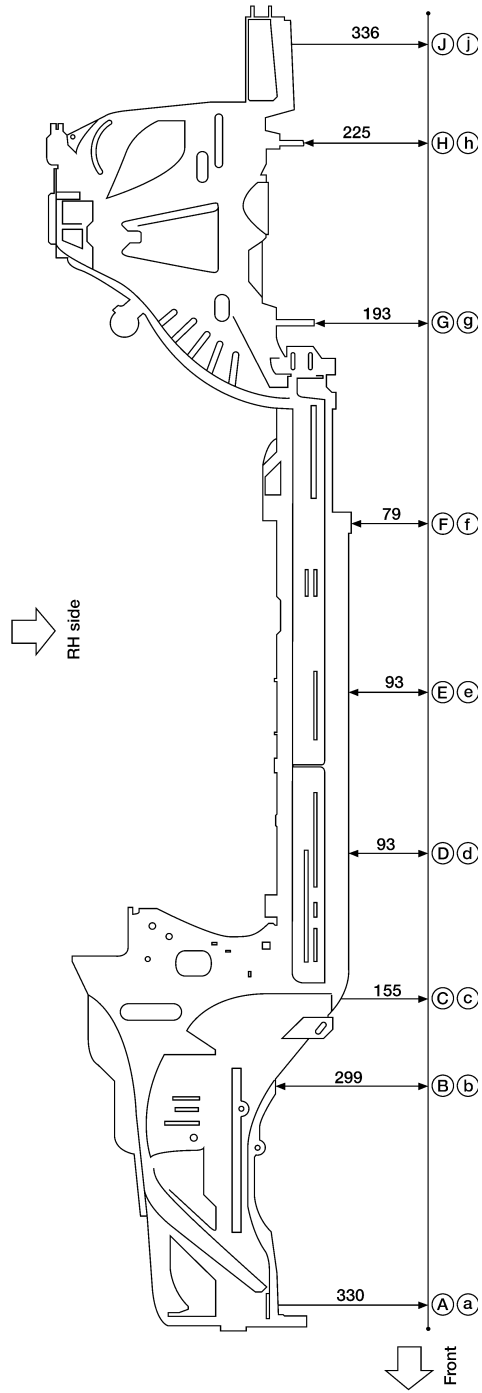
As viewed from underside.

All dimensions indicated in this figure are actual.

Unit : mm



Top Bottom



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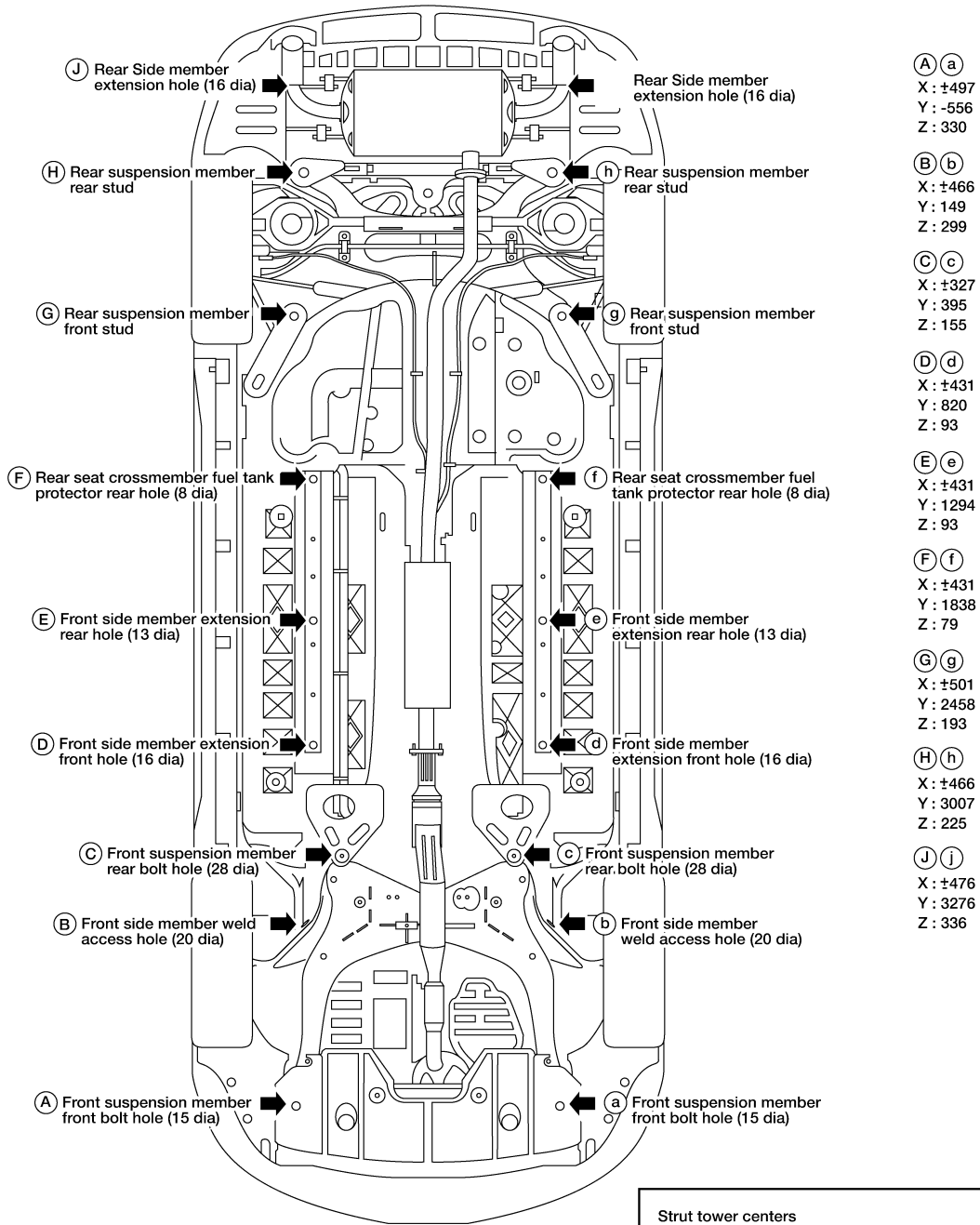
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# BODY ALIGNMENT

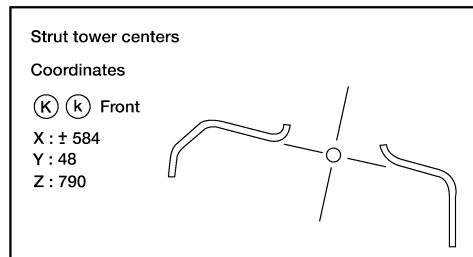
< REMOVAL AND INSTALLATION >

[COUPE]

## Measurement Points



Unit : mm



AWKIA1485GB

# BODY ALIGNMENT

[COUPE]

< REMOVAL AND INSTALLATION >

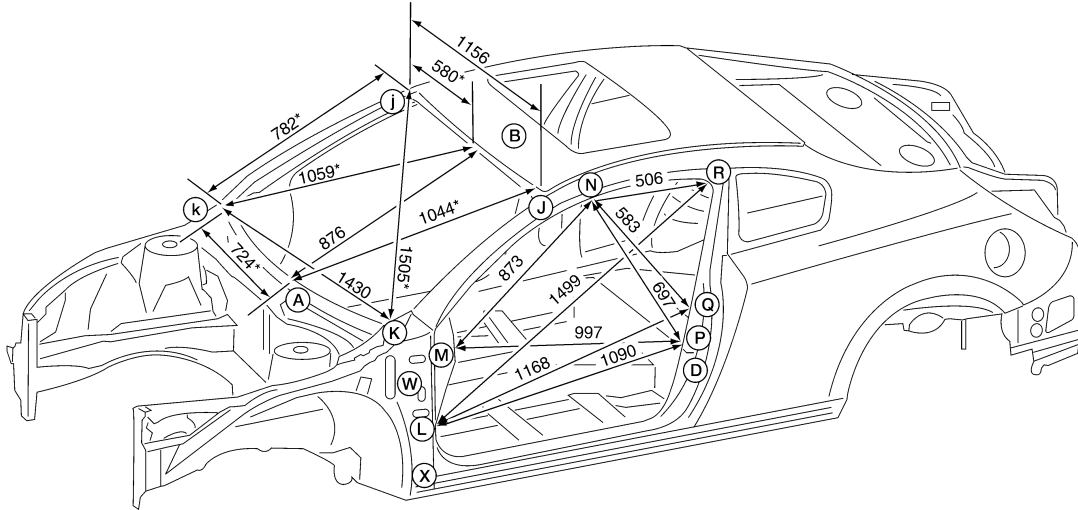
## Passenger Compartment

INFOID:000000006391114

### Measurement

Unit : mm

Figures marked with a (\*) indicate symmetrically identical dimensions on both right and left sides of the vehicle.



Point	Dimension	Point	Dimension	Point	Dimension
(A) - (C)	999	(j) - (C)	1071*	(p) - (C)	955*
(X) - (D)	1195	(l) - (C)	918*	(P) - (p)	1472
(X) - (W)	320	(L) - (l)	1466	(q) - (C)	1040*
(A) - (e)	2029	(m) - (C)	932*	(Q) - (q)	1473
(B) - (C)	954	(M) - (m)	1443	(r) - (C)	1295*
(D) - (W)	1200	(n) - (C)	1092*	(R) - (r)	1178
(E) - (C)	1497	(N) - (n)	1167	(s) - (C)	1594*

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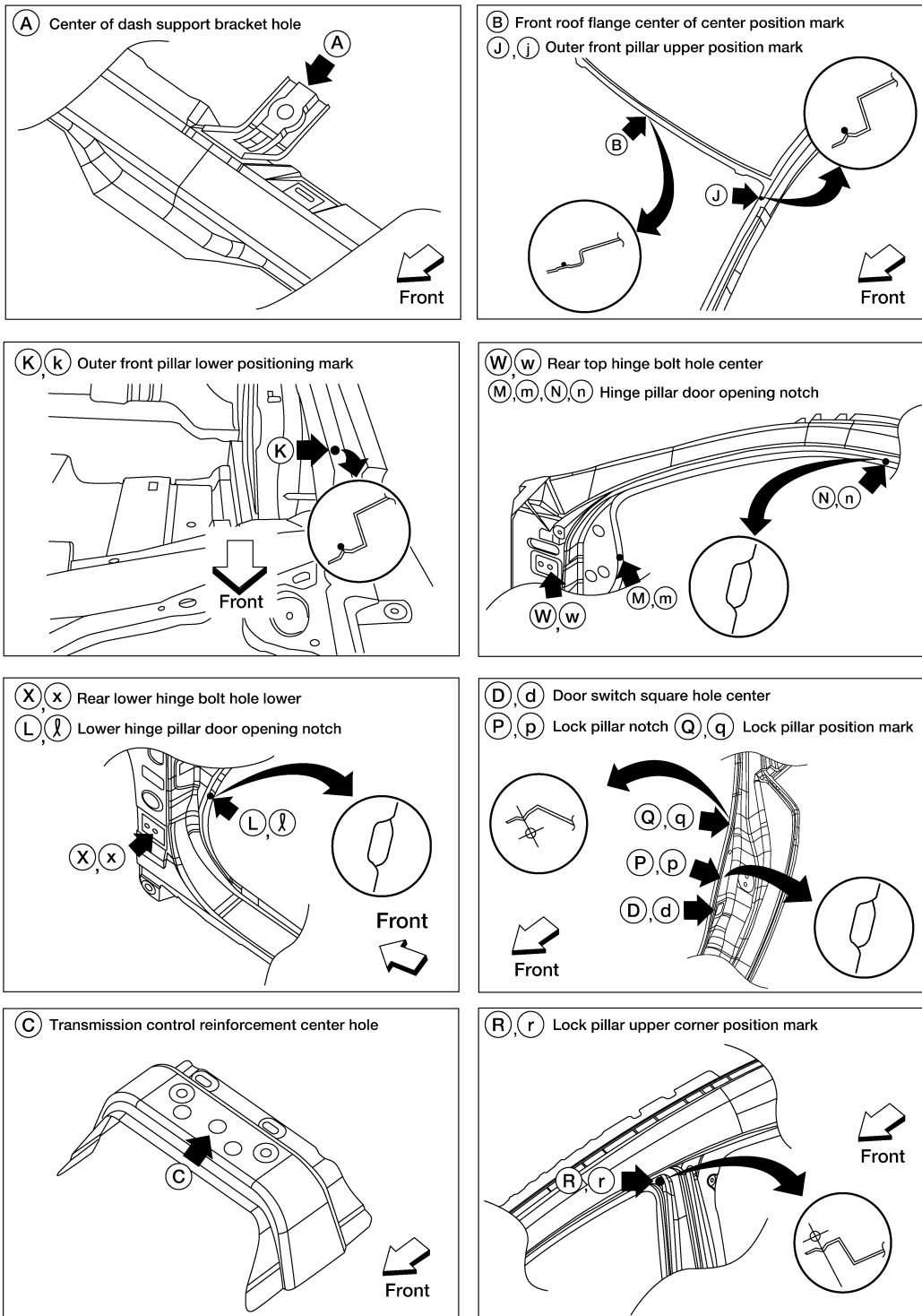
BRM

# BODY ALIGNMENT

< REMOVAL AND INSTALLATION >

[COUPE]

## Measurement Points



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# BODY ALIGNMENT

< REMOVAL AND INSTALLATION >

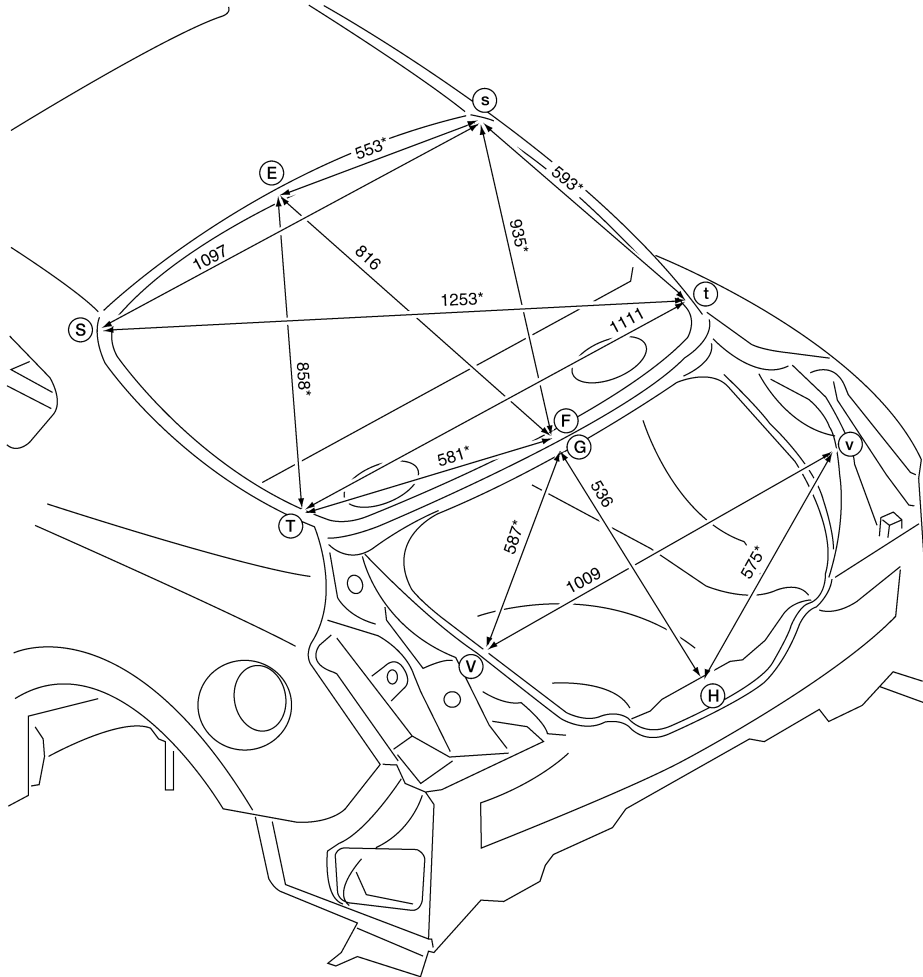
[COUPE]

## Rear Body

INFOID:000000006391115

### Measurement

Figures marked with a (\*) indicate symmetrically identical dimensions on both right and left sides of the vehicle.



Unit : mm

ALKIA0807GB

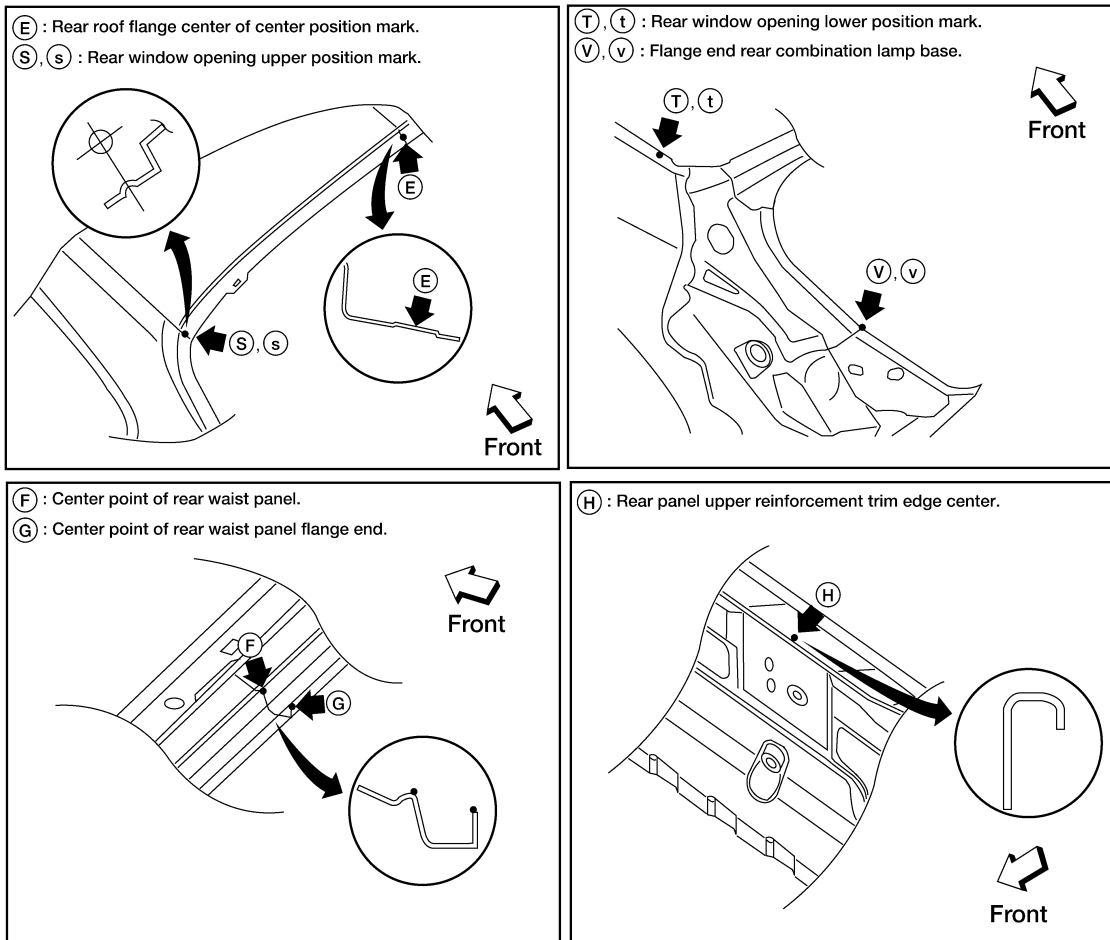
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# BODY ALIGNMENT

< REMOVAL AND INSTALLATION >

[COUPE]

## Measurement Points



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PRECAUTION

PRECAUTIONS

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

INFOID:000000006391116

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the SR and SB section of this Service Manual.

**WARNING:**

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SR section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

**WARNING:**

- When working near the Airbag Diagnosis Sensor Unit or other Airbag System sensors with the Ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the Ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

Precautions Necessary for Steering Wheel Rotation After Battery Disconnect

INFOID:000000006934921

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**NOTE:**

- Before removing and installing any control units, first turn the push-button ignition switch to the LOCK position, then disconnect both battery cables.
- After finishing work, confirm that all control unit connectors are connected properly, then re-connect both battery cables.
- Always use CONSULT to perform self-diagnosis as a part of each function inspection after finishing work. If a DTC is detected, perform trouble diagnosis according to self-diagnosis results.

This vehicle is equipped with a push-button ignition switch and a steering lock unit.

If the battery is disconnected or discharged, the steering wheel will lock and cannot be turned.

If turning the steering wheel is required with the battery disconnected or discharged, follow the procedure below before starting the repair operation.

OPERATION PROCEDURE

1. Connect both battery cables.

**NOTE:**

Supply power using jumper cables if battery is discharged.

2. Carry the Intelligent Key or insert it to the key slot and turn the push-button ignition switch to ACC position. (At this time, the steering lock will be released.)
3. Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.
4. Perform the necessary repair operation.

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## PRECAUTIONS

[SEDAN]

< PRECAUTION >

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5. When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the push-button ignition switch from ACC position to ON position, then to LOCK position. (The steering wheel will lock when the push-button ignition switch is turned to LOCK position.)
6. Perform self-diagnosis check of all control units using CONSULT.



# BODY ALIGNMENT

< REMOVAL AND INSTALLATION >

[SEDAN]

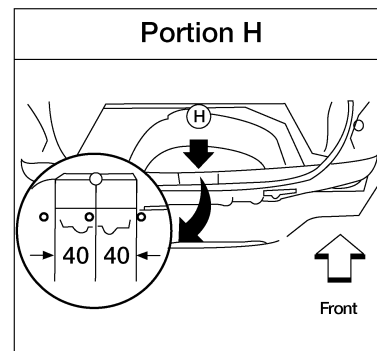
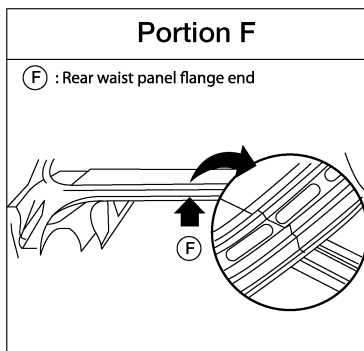
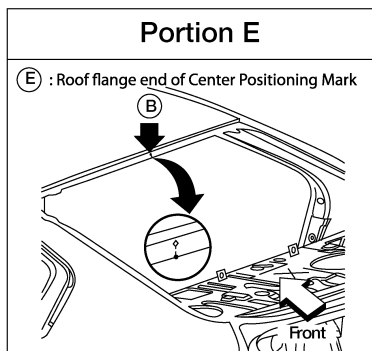
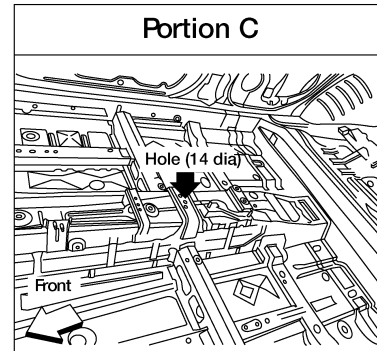
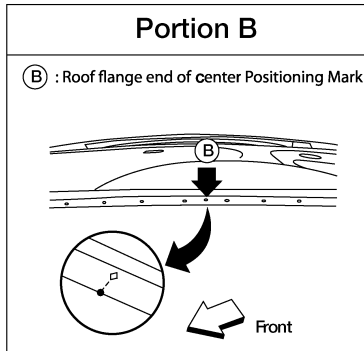
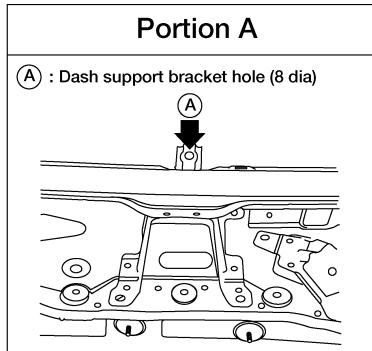
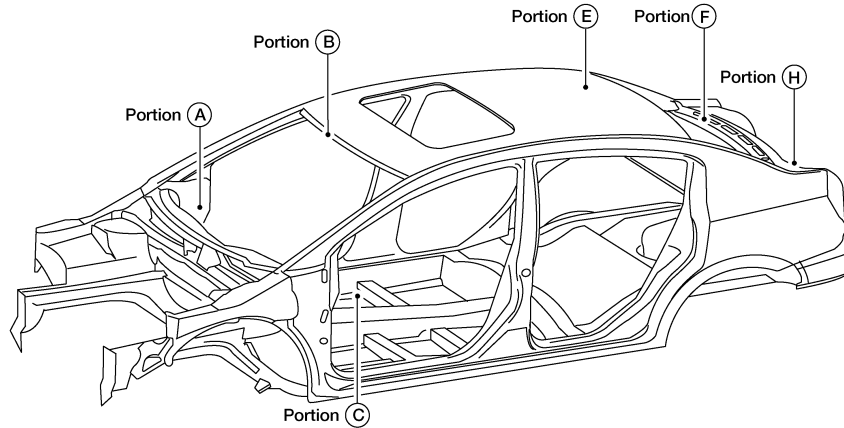
## REMOVAL AND INSTALLATION

### BODY ALIGNMENT

#### Body Center Marks

INFOID:000000006391118

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.



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# BODY ALIGNMENT

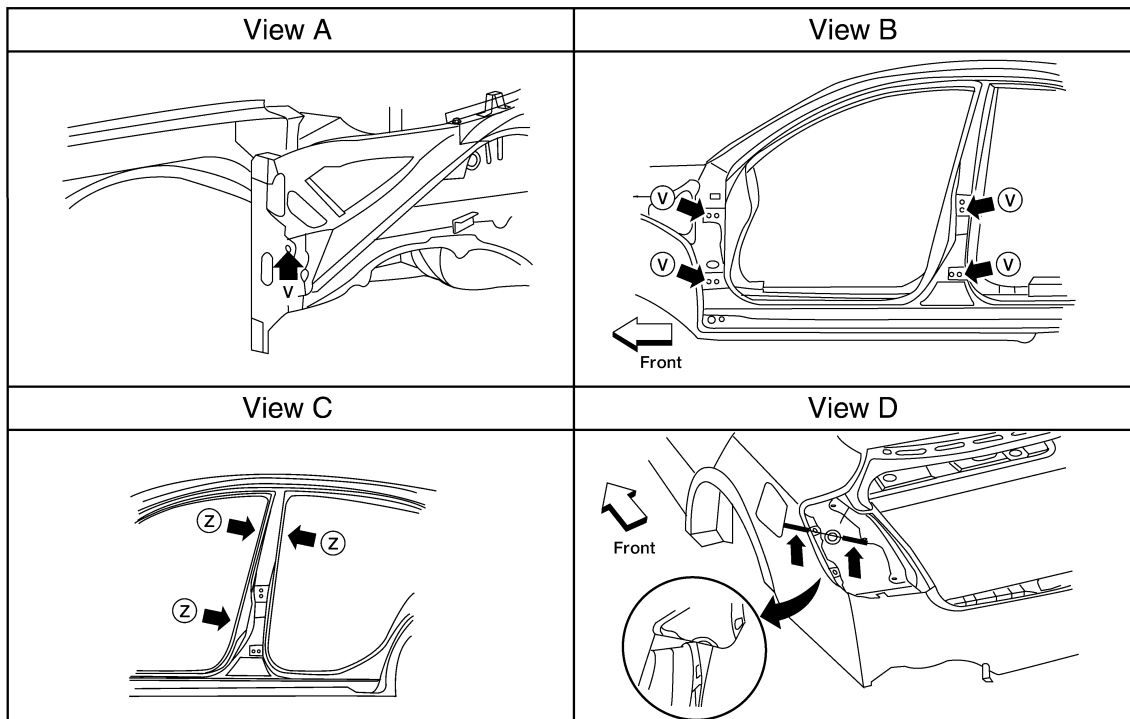
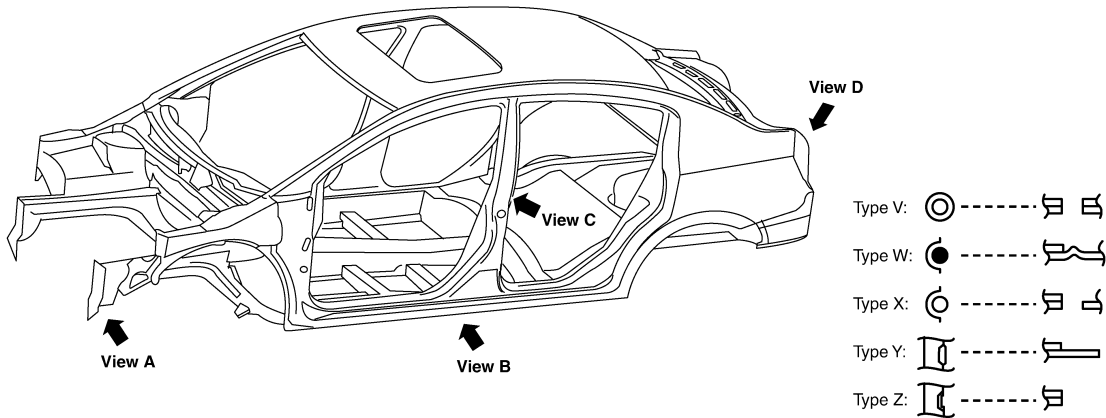
< REMOVAL AND INSTALLATION >

[SEDAN]

## Panel Parts Matching Marks

INFOID:000000006391119

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



ALKIA0159GB

## Description

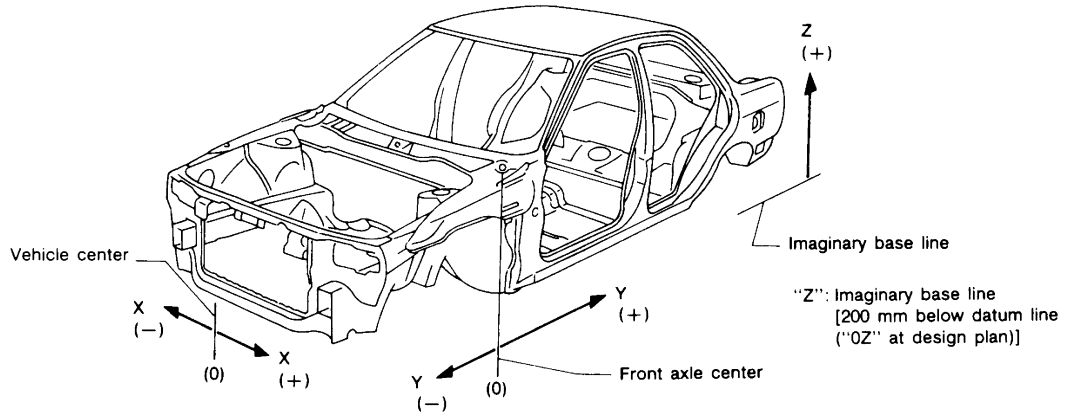
INFOID:000000006391120

- 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".

# BODY ALIGNMENT

< REMOVAL AND INSTALLATION >

[SEDAN]



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# BODY ALIGNMENT

< REMOVAL AND INSTALLATION >

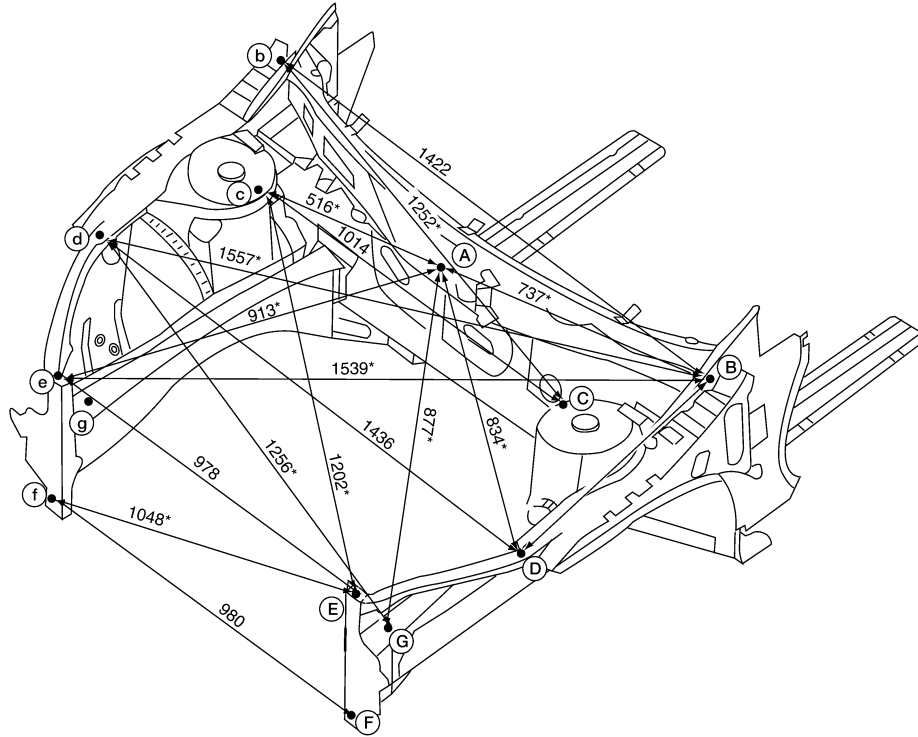
[SEDAN]

## Engine Compartment

INFOID:000000006391121

### Measurement

Figures marked with a (\*) indicate symmetrically identical dimensions on both right and left sides of the vehicle.



Point	Dimension
(B) ~ (D)	617*
(B) ~ (E)	989*
(B) ~ (G)	1512*
(C) ~ (B)	1268*
(C) ~ (D)	389*
(C) ~ (E)	673*
(C) ~ (G)	630*
(C) ~ (g)	1182*
(D) ~ (G)	394*
(E) ~ (G)	201*
(G) ~ (g)	990

Unit : mm

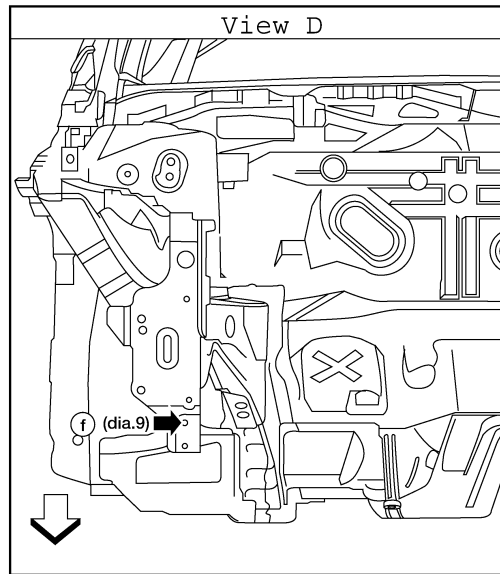
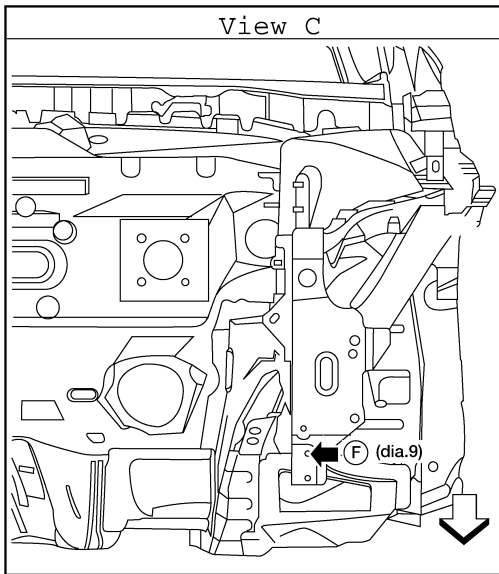
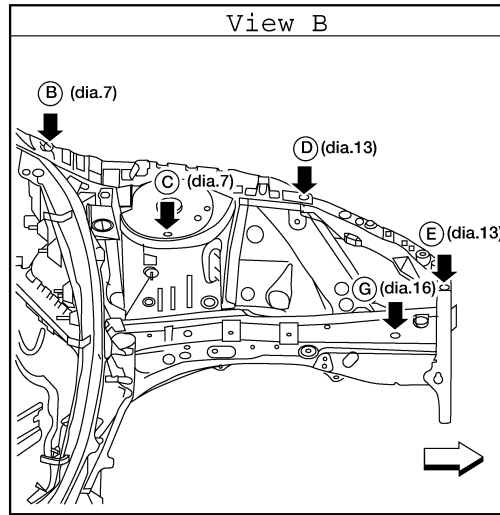
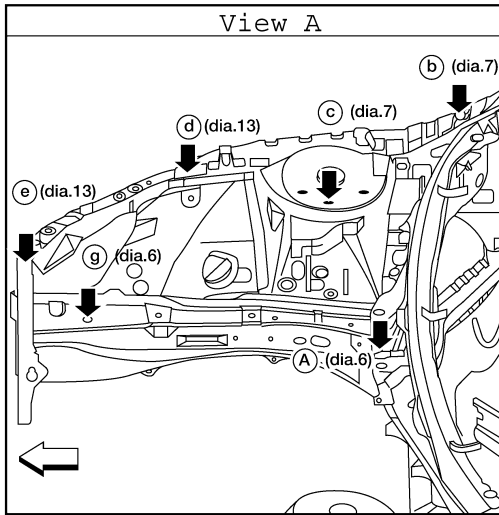
ALKIA0168GB

# BODY ALIGNMENT

< REMOVAL AND INSTALLATION >

[SEDAN]

## Measurement Points



Unit : mm

AWKIA0389GB

← : Front

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# BODY ALIGNMENT

< REMOVAL AND INSTALLATION >

[SEDAN]

## Underbody

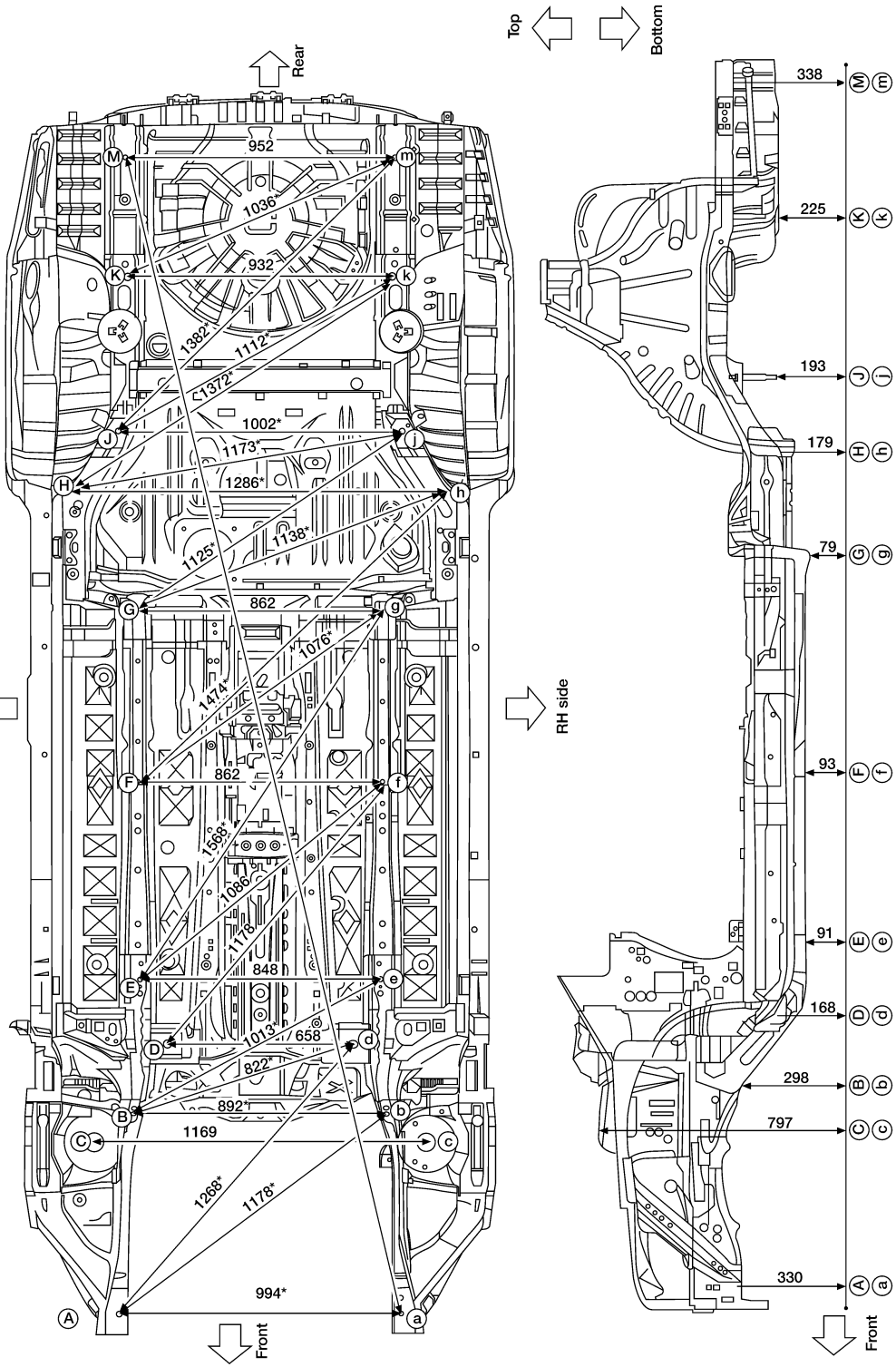
INFOID:000000006391122

### Measurement

Figures marked with a (\*) indicate symmetrically identical dimensions on both right and left hand sides of the vehicle.

As viewed from underside.

All dimensions indicated in this figure are actual.



Unit : mm

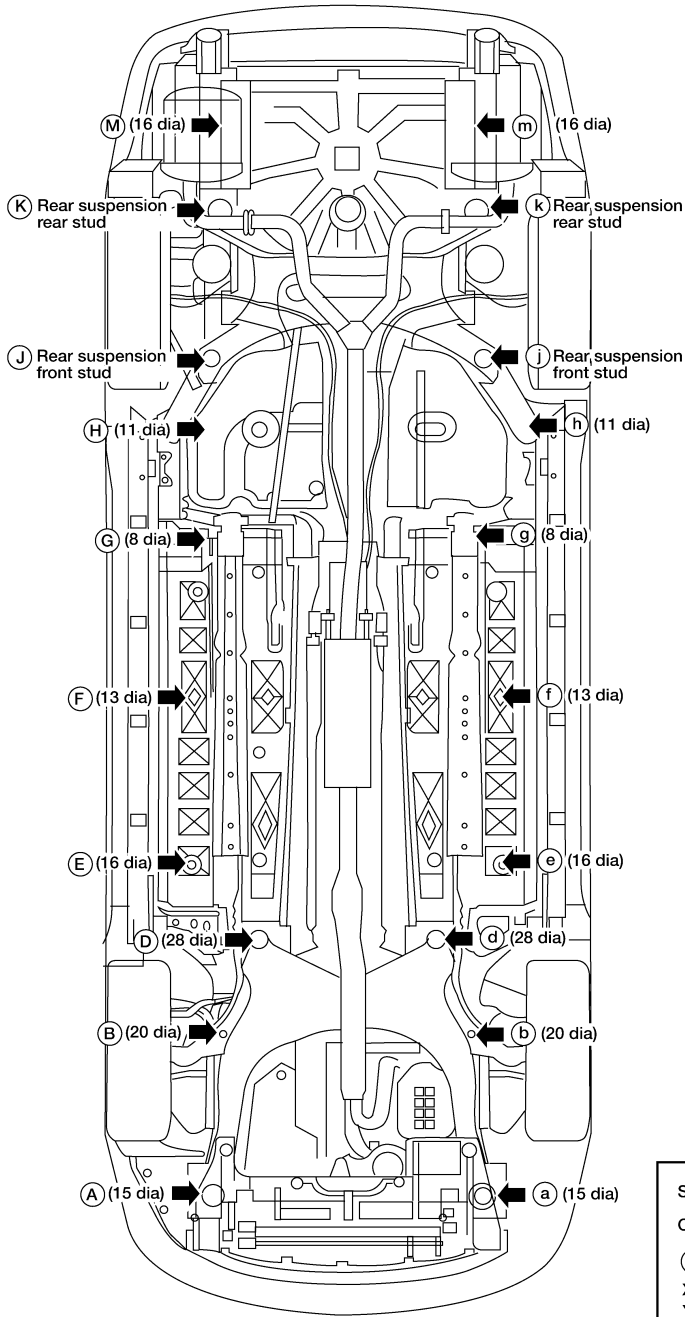
ALKIA0173GB

# BODY ALIGNMENT

< REMOVAL AND INSTALLATION >

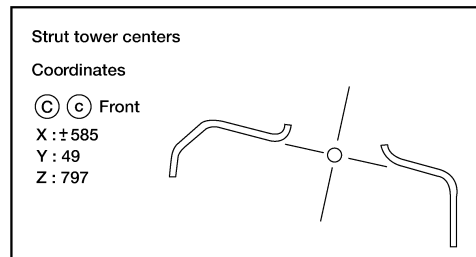
[SEDAN]

## Measurement Points



Unit : mm

- (A) (a)  
X : ± 497  
Y : -566  
Z : 330
- (B) (b)  
X : ± 446  
Y : 149  
Z : 298
- (D) (d)  
X : ± 327  
Y : 395  
Z : 168
- (E) (e)  
X : ± 424  
Y : 624  
Z : 91
- (F) (f)  
X : ± 431  
Y : 1294  
Z : 93
- (G) (g)  
X : ± 431  
Y : 1938  
Z : 79
- (H) (h)  
X : ± 643  
Y : 2301  
Z : 179
- (J) (j)  
X : ± 501  
Y : 2558  
Z : 193
- (K) (k)  
X : ± 466  
Y : 3107  
Z : 225
- (M) (m)  
X : ± 476  
Y : 3525  
Z : 338



AWKIA1489GB

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

BRM

# BODY ALIGNMENT

< REMOVAL AND INSTALLATION >

[SEDAN]

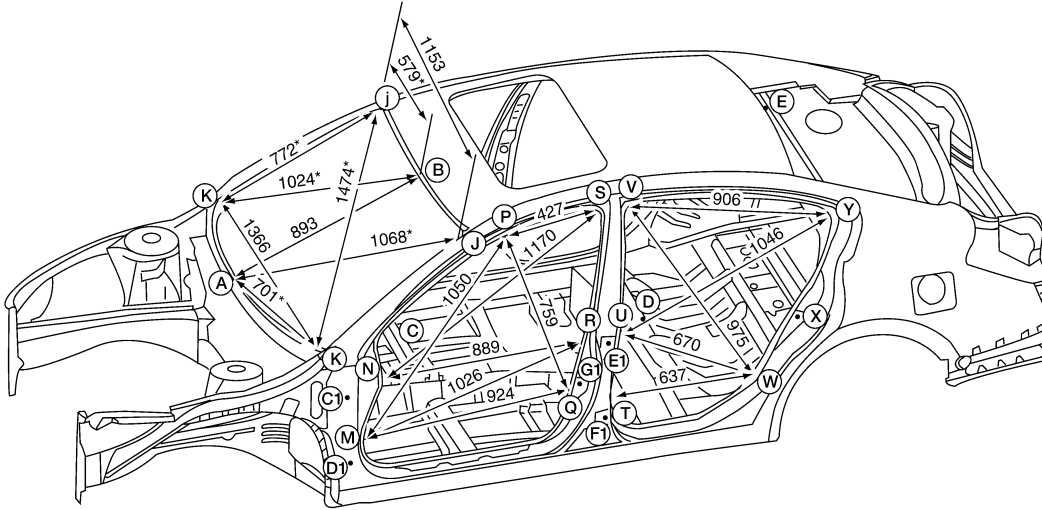
## Passenger Compartment

INFOID:000000006391123

### Measurement

Unit : mm

Figures marked with a (\*) indicate symmetrically identical dimensions on both right and left sides of the vehicle.



Point	Dimension	Point	Dimension	Point	Dimension	Point	Dimension
(A) ~ (C)	1044	(D) ~ (T)	742	(G) ~ (X)	987	(S) ~ (Q)	779
(A) ~ (D)	1890	(D) ~ (t)	904	(M) ~ (m)	1464	(S) ~ (s)	1143
(A) ~ (F)	3134	(D) ~ (u)	973	(M) ~ (P)	1050	(T) ~ (t)	1471
(B) ~ (C)	972	(D) ~ (U)	823	(M) ~ (q)	1735*	(T) ~ (V)	840
(C) ~ (E)	1796*	(D) ~ (v)	1148	(M) ~ (r)	1794*	(T) ~ (y)	1823*
(C) ~ (m)	912*	(D) ~ (V)	1054	(M) ~ (s)	1896*	(T) ~ (Y)	1212
(C) ~ (n)	928*	(D) ~ (w)	883	(M) ~ (S)	1386	(U) ~ (u)	1479
(C) ~ (p)	1100*	(D) ~ (W)	715	(N) ~ (n)	1442	(V) ~ (t)	1544*
(C) ~ (q)	860*	(D) ~ (y)	1234	(N) ~ (P)	803	(V) ~ (v)	1139
(C) ~ (r)	970*	(D) ~ (Y)	1137	(N) ~ (r)	1710*	(V) ~ (w)	1624*
(C) ~ (s)	1249*	(D) ~ (E)l	1223	(P) ~ (p)	1181	(W) ~ (t)	1607*
(C) ~ (E)l	1167	(D) ~ (F)l	1147	(Q) ~ (n)	1686*	(W) ~ (u)	1624*
(C) ~ (F)l	1181	(D) ~ (G)l	1068	(Q) ~ (p)	1521*	(W) ~ (w)	1480
(C) ~ (G)l	1064	(D) ~ (X)	2054	(Q) ~ (q)	1471	(W) ~ (y)	1564*
(C) ~ (X)	2029	(E)l ~ (X)	867	(Q) ~ (s)	1513*	(W) ~ (Y)	762
(D) ~ (E)	1102	(F)l ~ (X)	931	(R) ~ (r)	1480	(Y) ~ (y)	1261

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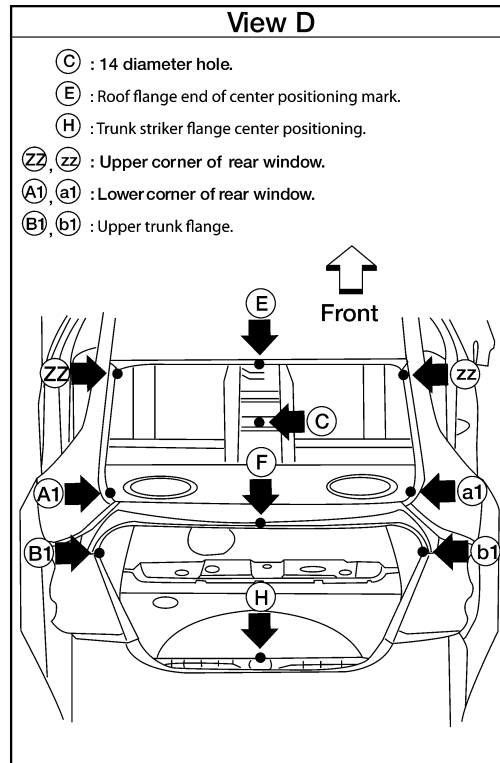
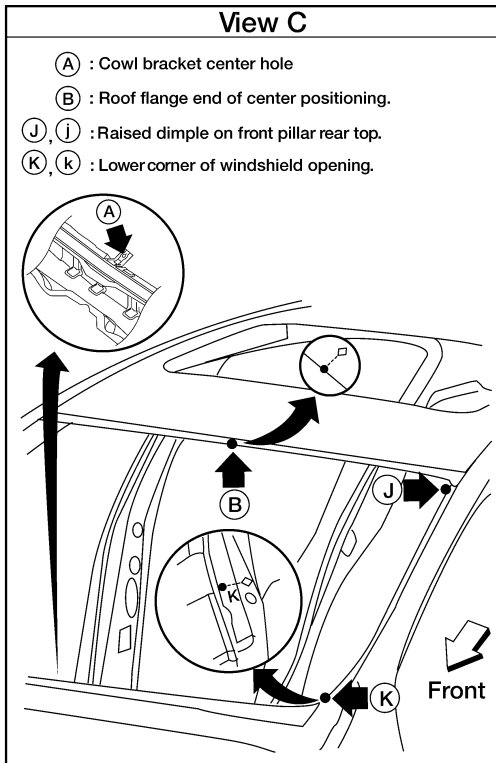
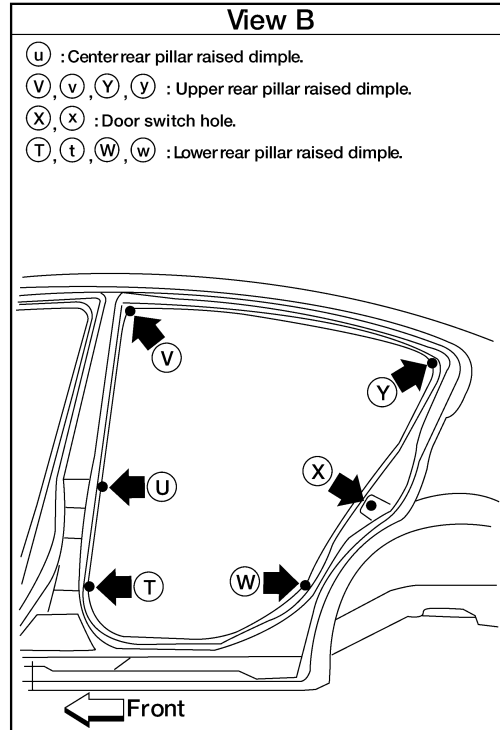
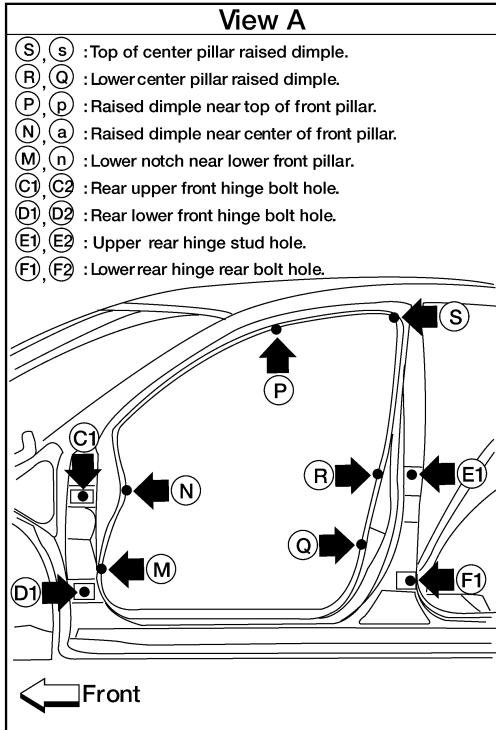


# BODY ALIGNMENT

< REMOVAL AND INSTALLATION >

[SEDAN]

## Measurement Points



AWKIA1487GB

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

BRM

# BODY ALIGNMENT

< REMOVAL AND INSTALLATION >

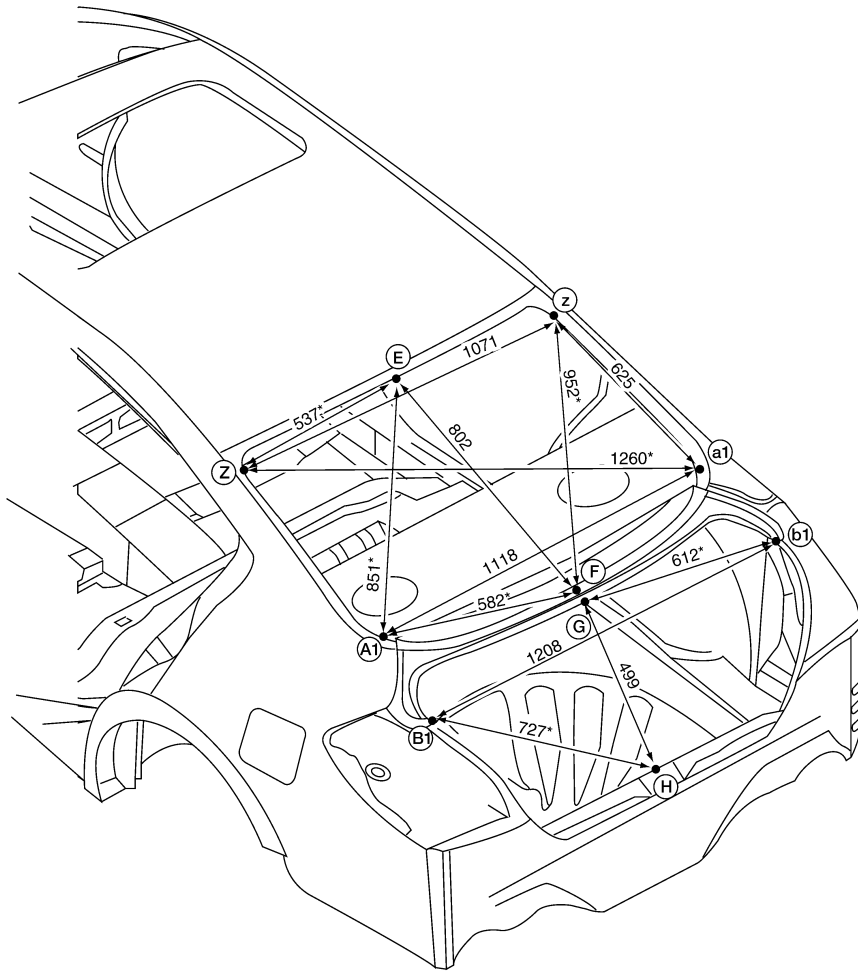
[SEDAN]

## Rear Body

INFOID:000000006391124

### Measurement

Figures marked with a (\*) indicate symmetrically identical dimensions on both right and left sides of the vehicle.



Unit : mm

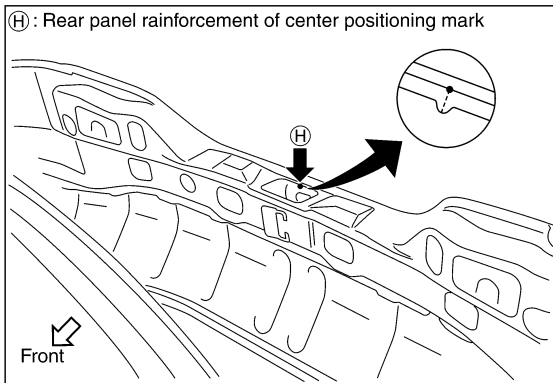
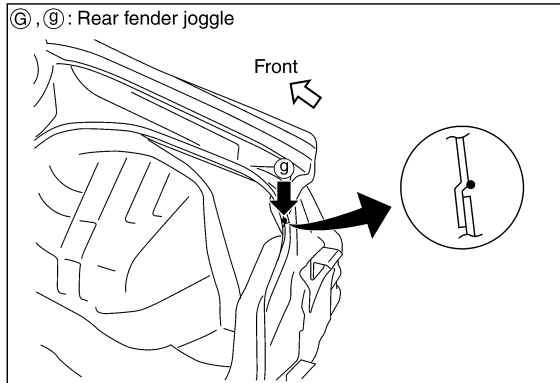
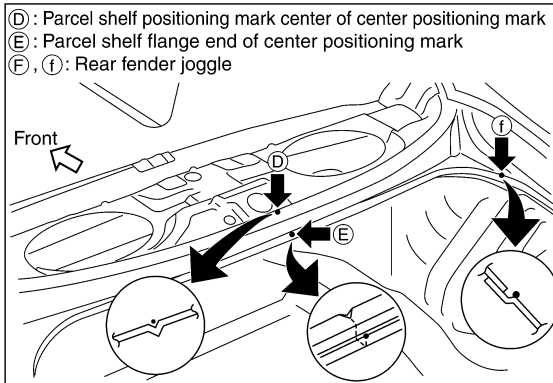
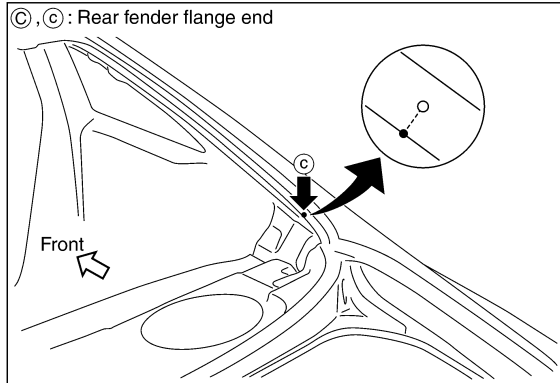
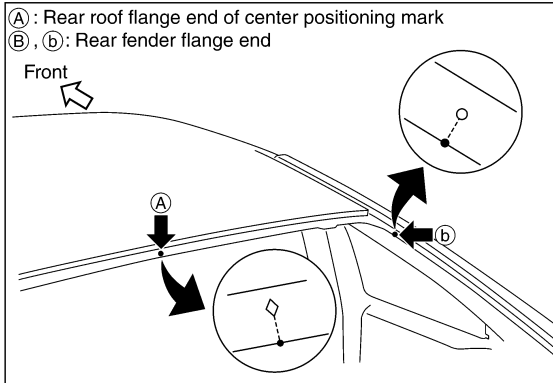
ALKIA0169GB

# BODY ALIGNMENT

< REMOVAL AND INSTALLATION >

[SEDAN]

## Measurement Points



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

**BRM**

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