

2013-2020 **NV200**

COMPACT CARGO

BODY BUILDER'S GUIDE

**NISSAN** | Commercial Vehicles



SHIFT\_the way you move

# FOREWORD

---

**This manual contains body builder's information for the 2013-2020 Nissan NV200 Compact Cargo.**

**For your safety and the proper functioning of the vehicle, this guide should be read thoroughly.**

**All information in this guide is based on the latest product information at the time of publication. The right is reserved to make changes in specifications and methods at any time without notice. The most accurate and up to date information can be found on [www.nissan-techinfo.com](http://www.nissan-techinfo.com).**

**Measurements found within this publication are for reference only. For exact measurements, contact Nissan Commercial and Fleet Aftermarket Engineering for CAD data.**

---

## IMPORTANT SAFETY NOTICE

**The proper performance of procedures described in this guide is essential for both the safety of the technician and the proper functioning of the vehicle. The methods in this Body Builder's Guide are described in such a manner that they may be performed safely and accurately. Methods vary with the procedures used, the skills of the technician and the tools and parts available. Accordingly, anyone using procedures, tools or parts which are not specifically recommended by Nissan must first be completely satisfied that neither personal safety nor the vehicle's safety will be jeopardized by the method selected.**

## WARNINGS, CAUTIONS AND NOTES USED IN THIS MANUAL



### **WARNING:**

This is used to indicate the presence of a hazard that could cause death or serious injury. To avoid or reduce the risk, the procedures must be followed precisely.



### **CAUTION:**

This is used to indicate the presence of a hazard that could cause minor or moderate personal injury or damage to your vehicle. To avoid or reduce the risk, the procedures must be followed carefully.

### **NOTE:**

This is used to provide additional information.



**NISSAN NORTH AMERICA, INC.**  
Technical Publications Department

Edition: February 2013

Revision: August 2019

Publication Number: BG20EM0M20U0

2013-2020 NV200

---

# CONTENTS

<b>GENERAL INFORMATION</b> .....	<b>5</b>	GROUND .....	151
DISCLAIMER .....	5	BATTERY VOLTAGE CONTROL SYSTEM .....	158
SERVICE INFORMATION AND TOOLS .....	6	BATTERY VOLTAGE CONNECTION .....	159
CONTACT INFORMATION .....	7	CUSTOMER PRE-WIRING ACCESS .....	160
WARRANTY .....	8	HARNESS LAYOUT .....	162
DEFINITIONS OF TERMS .....	9	BULBS .....	178
<b>SAFETY INFORMATION</b> .....	<b>13</b>	HEADLAMP AIMING .....	179
SUPPLEMENTAL RESTRAINT SYSTEM (SRS) PRE-CAUTIONS .....	13	ADDING LIGHTS OR DEVICES .....	183
SRS COMPONENT LOCATIONS (2013–2017 MODEL YEARS) .....	14	REGULATIONS FOR ADDING COMMUNICATION EQUIPMENT .....	184
SRS COMPONENT LOCATIONS (2018–2020 MODEL YEARS) .....	16	REMOTE KEYLESS ENTRY SYSTEM .....	185
OCCUPANT CLASSIFICATION SYSTEM .....	18	<b>FUEL SYSTEMS</b> .....	<b>186</b>
FRONT AIR BAG DEPLOYMENT ZONES (2013–2016 MODEL YEARS) .....	19	FUEL SYSTEM PRECAUTIONS .....	186
FRONT AIR BAG DEPLOYMENT ZONES (2017 MODEL YEAR) .....	35	FILLER NECK AREAS .....	188
FRONT AIR BAG DEPLOYMENT ZONES (2018–2020 MODEL YEARS) .....	51	TANK LOCATION .....	191
ALTERED VEHICLES .....	67	<b>TRAILER TOW</b> .....	<b>197</b>
BRAKE COMPLIANCE GUIDELINES .....	69	<b>DESIGN REQUIREMENTS FOR MODIFICATIONS</b> .....	<b>198</b>
CENTER OF GRAVITY (CG) .....	70	COOLING .....	198
FMVSS AND CMVSS REGULATION LIST .....	81	HVAC .....	199
PRECAUTIONS .....	82	SONAR SYSTEM .....	200
<b>MODEL INFORMATION</b> .....	<b>83</b>	EXHAUST .....	202
LABEL INFORMATION .....	83	WHEEL AND TIRE .....	206
VEHICLE CODING INFORMATION .....	84	STEERING AND SUSPENSION .....	207
CLASS .....	85	DRIVELINE .....	208
GVWR CAPACITY .....	86	TRANSMISSION .....	209
VAN OPTION MASS — 2013–2014 MODEL YEARS .....	87	UNIBODY AND FRAME .....	210
VAN OPTION MASS — 2015–2016 MODEL YEARS .....	89	JACK .....	211
VAN OPTION MASS — 2017 MODEL YEAR .....	91	HIGH STRENGTH STEEL LOCATIONS .....	214
VAN OPTION MASS — 2018–2019 MODEL YEARS .....	93	WELDING .....	220
VAN OPTION MASS — 2020 MODEL YEAR .....	95	VEHICLE INTERIOR .....	224
<b>RESOURCE CHARTS</b> .....	<b>97</b>	PAINT GENERAL INFORMATION .....	225
WEIGHTS — 2013–2014 MODEL YEARS .....	97	PAINT WORK — 2013–2014 MODEL YEARS .....	226
WEIGHTS — 2015–2019 MODEL YEARS .....	98	PAINT WORK — 2015–2017 MODEL YEARS .....	227
WEIGHTS — 2020 MODEL YEAR .....	99	PAINT WORK — 2018–2019 MODEL YEARS .....	228
INTERIOR MEASUREMENTS .....	100	PAINT WORK — 2020 MODEL YEAR .....	229
EXTERIOR MEASUREMENTS .....	101	ADHESIVE INFORMATION .....	230
<b>BODY DIMENSIONS</b> .....	<b>103</b>	REPLACING BOLTS .....	231
PASSENGER COMPARTMENT .....	103	<b>ADD ON EQUIPMENT</b> .....	<b>232</b>
CARGO AREA .....	107	ANTI-CORROSION PROTECTION .....	232
SIGN AREA .....	115	SHELVING AND BULKHEAD INSTALLATION .....	233
EXTERIOR .....	125	ROOF RACKS .....	240
UNIBODY AND FRAME .....	133	<b>SPECIFICATIONS</b> .....	<b>242</b>
<b>ELECTRICAL</b> .....	<b>135</b>	RECOMMENDED FLUIDS AND LUBRICANTS .....	242
SELF-TEST MODE .....	135	SUSPENSION .....	245
DATA LINK CONNECTOR LOCATION (FOR DIAGNOSTIC SCAN TOOL) .....	136	TURNING RADIUS .....	250
SHIPPING (EXTENDED STORAGE) MODE CONTROL SYSTEMS .....	137	WHEEL AND TIRE .....	251
SHIPPING MODE (EXTENDED) STORAGE SYSTEM CANCEL .....	138	BULBS .....	252
BCM TRANSIT MODE (2013–2015 MODEL YEARS) .....	141	BATTERY .....	253
FUSE AND RELAY INFORMATION .....	142	<b>ACRONYMS</b> .....	<b>254</b>
		<b>CONVERSION CHARTS</b> .....	<b>256</b>
		METRIC-ENGLISH CONVERSION CHART .....	256
		INCH-MILLIMETER EQUIVALENTS CHART .....	258
		<b>INDEX</b> .....	<b>259</b>



# GENERAL INFORMATION

## DISCLAIMER

### Important Regulatory Information

Emission standards and motor vehicle safety standards for new vehicles and equipment have been established by the United States and Canadian Governments under the provisions of the Clean Air Act, the Noise Control Act, and the National Traffic and Motor Vehicle Safety Act in the U.S., and the Canadian Motor Vehicle Safety Act in Canada. These Acts govern Nissan as the original equipment manufacturer of the Nissan NV200 Compact Cargo vehicles. They also govern dealers, body builders, and all others who manufacture and market new motor vehicles and equipment. Part 568 of the Title 49 Code of Federal Regulations (CFR) describes requirements for intermediate manufacturers, final-stage manufacturers, and manufacturers who assume legal responsibility for a vehicle. This Body Builder's Guide (Guide) partially fulfills Nissan's obligations as the original equipment manufacturer. Additionally, this guide identifies regulatory requirements to assist intermediate and final stage manufacturers to determine their obligations to conform with these standards.

Compliance labels affixed to Nissan NV200 Compact Cargo vehicles indicate the status of initial compliance as of the date of manufacture by Nissan. Any subsequent modifications made to this vehicle may affect the final certification of the engine, vehicle or equipment. The body builder, conversion company, or dealer responsible for any modification has the responsibility to certify that the modified vehicle and equipment complies or continues to comply with all applicable motor vehicle safety standards and emissions regulations. The body builder, conversion company, or dealer is responsible for making sure the modifications or installed equipment do not affect the safety of the vehicle, including modifications which may result in a collision, property damage, personal injury or death.

Nissan does not assume responsibility as the final stage manufacturer for modified or altered vehicles. Nissan is not responsible for final certification, product liability claims, or warranty claims, resulting from any component, assembly, or system altered by or at the request of the body builder, conversion company, dealer or vehicle purchaser. Nissan is not responsible for modifications which cause the vehicle to become noncompliant with any of the motor vehicle safety standards, emissions regulations, or modifications that cause the vehicle to be or become defective or unsafe.

### Disclaimer

All information, specifications and illustrations in this manual are those in effect at the time of printing. NISSAN reserves the right to change specifications or design without notice and without obligation.

The body builder, conversion company, aftermarket equipment manufacturer, second stage manufacturer, upfitter, dealer and the vehicle purchaser are responsible to abide by the regulations issued by the National Highway Traffic Safety Administration (NHTSA), the Occupational Safety and Health Act (OSHA), state, local, or provincial government laws. These regulations and laws may require the installation of additional equipment for the intended vehicle uses.

© 2019 NISSAN NORTH AMERICA, INC. All rights reserved. No part of this Body Builder's Guide may be reproduced or stored in a retrieval system, or transmitted in any form, or by any means, electronic, mechanical, photocopying, recording or otherwise, without the prior written permission of NISSAN North America, Inc.

## SERVICE INFORMATION AND TOOLS

For service information, refer to [www.nissan-techinfo.com](http://www.nissan-techinfo.com).

For special service tools, refer to [www.nissantechmate.com](http://www.nissantechmate.com).

**CONTACT INFORMATION****General**

Nissan Commercial and Fleet Aftermarket Engineering 1 (855) 651-6655 or by E-mail at [Nissan-AET@Nissan-USA.COM](mailto:Nissan-AET@Nissan-USA.COM).

**WARRANTY****Emissions Control System Warranty**

For Nissan warranty information, refer to the Warranty Information Booklet in the Owner's Manual package.

## DEFINITIONS OF TERMS

The following definitions are from Title 49, Code of Federal Regulations, Parts 567.3, 568.3 and 571.3 where noted. Canadian definitions are from Canada Motor Vehicle Safety Regulations, Section 2(1), and are in italics. Nissan definitions are for the purpose of this publication only. Some terms are followed by an abbreviation that is used throughout this publication.

### USA

**Accessory Reserve Capacity (ARC)** — Represents the amount of bolt-on accessory or modification weight permanently attached to a certified vehicle before its unloaded vehicle weight exceeds the unloaded vehicle weight for which Nissan has established FMVSS/CMVSS compliance. Accessory Reserve Capacity designations assume the use of permanently attached components resulting in center of gravity locations generally similar to those of comparable completed vehicles. Any additions or alterations that significantly affect the center of gravity of the total unit could impose more severe conditions than those for which Nissan has established compliance to FMVSS and CMVSS requirements.

**Completed Vehicle** — A vehicle that requires no further manufacturing operations to perform its intended function, other than the addition of readily attachable components, such as mirrors or tire and rim assemblies, or minor finishing operations such as painting. (49CFR568.3)

**Curb Weight** — Is the weight of a motor vehicle with standard equipment; maximum capacity of engine fuel, oil, and coolant; and if so equipped, air conditioning and additional weight optional engine. (49CFR571.3)

**Engine Control Module (ECM)** — The ECM consists of a microcomputer and connectors for signal input and output and for the power supply, and also controls the engine.

**Gross Combination Weight Rating (GCWR)** — The value specified by the manufacturer as the loaded weight of a combination vehicle. (49CFR571.3)

**Gross Vehicle Weight Rating (GVWR)** — The value specified by the manufacturer as the loaded weight of a single vehicle. (49CFR571.3)

**HO2 Heated Oxygen Sensor** — The sensor after the three-way catalyst (manifold) that monitors the oxygen level in the exhaust gas on each bank.

**Lamps, Reflective Devices, and Associated Equipment** — A lamp that is mounted on a multipurpose passenger vehicle, truck, or bus for the purpose of providing illumination to load or unload cargo.

**Maximum Payload** — Maximum allowable weight that can be placed in the vehicle, including driver, passengers, optional and aftermarket equipment.

**Seating system**— Any seating position that can be adjusted to conform to different configurations.

**SgRP** — The theoretical hip point used by manufacturers when designing a vehicle. More specifically, it describes the relative position of the seated dummy's hip point when the seat is set in the rearmost and lowermost seating position. Also known as the "R-point" (reference point).

**Stop Lamp Switch** — An electrically powered switch that sends a signal to the BCM, to turn on the stop lamps, when the brake pedal is depressed.

**Throttle Position Sensor (TPS)** — The electric throttle control actuator that consists of the throttle control motor, throttle position sensor, etc. The throttle position sensor responds to the throttle valve movement.

**Truck** — A motor vehicle with motive power, except a trailer, designed primarily for the transportation of property or special purpose equipment. (49CFR571.3)

**Unloaded Vehicle Weight (UVW)** — The weight of a vehicle with maximum capacity of all fluids necessary for operation of the vehicle, but without cargo, occupants, or accessories that are ordinarily removed from the vehicle when it is not in use. (49CFR571.3)

**Walk-In Van** — A van type of truck in which a person having a height of 1,700 mm (66.93 in) can enter the occupant compartment in an upright position by a front door.

---

**Canada**

**Accessory Reserve Capacity (ARC)** — Represents the amount of bolt-on accessory or modification weight permanently attached to a certified vehicle before its unloaded vehicle weight exceeds the unloaded vehicle weight for which Nissan has established FMVSS/CMVSS compliance. Accessory Reserve Capacity designations assume the use of permanently attached components resulting in center of gravity locations generally similar to those of comparable completed vehicles. Any additions or alterations that significantly affect the center of gravity of the total unit could impose more severe conditions than those for which Nissan has established compliance to FMVSS and CMVSS requirements.

**Completed Vehicle** — A vehicle that needs no further manufacturing operations to perform its intended function, other than the addition of readily attachable components, such as minor finishing operations such as painting.

**Curb Weight** — Is the weight of a vehicle with standard equipment and carrying its maximum capacity of fuel, oil, and coolant and includes the weight of any air conditioning equipment on the vehicle and the amount by which the weight of any optional engine with which the vehicle is equipped exceeds the weight of the standard engine.

**Engine Control Module (ECM)** — The ECM consists of a microcomputer and connectors for signal input and output and for the power supply and also controls the engine.

**Gross Combination Weight Rating** — The value specified by the manufacturer as the loaded weight of a combination vehicle. (49CFR571.3).

**Gross Vehicle Weight Rating or "GVWR"** — The value specified by the vehicle manufacturer as the loaded weight of a single vehicle.

**H02 Heated Oxygen Sensor** — The sensor after the three-way catalyst (manifold) that monitors the oxygen level in the exhaust gas on each bank.

**Lamps, Reflective Devices, and Associated Equipment** — A lamp that is mounted on a multipurpose passenger vehicle, truck, or bus for the purpose of providing illumination to load or unload cargo or passenger.

**Maximum Payload** — Maximum allowable weight that can be placed in the vehicle, including driver, passengers, optional and aftermarket equipment.

**Seating System** — Any seating position that can be adjusted to conform to different configurations.

**SgRP** — The theoretical hip point used by manufacturers when designing a vehicle. More specifically, it describes the relative position of the seated dummy's hip point when the seat is set in the rearmost and lowermost seating position. Also known as the "R-point" (reference point).

**Stop Lamp Switch** — An electrically powered switch that sends a signal to the BCM, to turn on the stop lamps, when the brake pedal is depressed.

**Throttle Position Sensor (TPS)** — The electric throttle control actuator consisting of the throttle control motor, throttle position sensor, etc. The throttle position sensor responds to the throttle valve movement.

**Truck** — A motor vehicle designed primarily for the transportation of property or special-purpose equipment, but does not include a competition vehicle, a crawler-mounted vehicle, a three-wheeled vehicle, a trailer, a work vehicle, a vehicle imported temporarily for special purposes, a vehicle designed for operation exclusively off-road or a low-speed vehicle.

**Unloaded Vehicle Weight (UVW)** — The weight of a vehicle with maximum capacity of all fluids necessary for operation of the vehicle, but without cargo, occupants, or accessories that are ordinarily removed from the vehicle when it is not in use.

**Walk In Van** — A van type of truck in which a person having a height of 1,700 mm (66.93 in) can enter the occupant compartment in an upright position by a front door.



# SAFETY INFORMATION

## SUPPLEMENTAL RESTRAINT SYSTEM (SRS) PRECAUTIONS

### Precautions for Supplemental Restraint System (SRS) "Air Bag" and "Belt Pre-Tensioner"

**WARNING:**

Always observe the following items for preventing accidental activation:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which could result in air bag inflation, it is recommended that all maintenance and repair be performed by an authorized NISSAN/INFINITI dealer.
- Improper repair, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system or failure of the system to work properly in the event of an accident.
- 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, the front passenger seat cannot be permanently removed.
- Never use electrical test equipment on any circuit related to the SRS. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

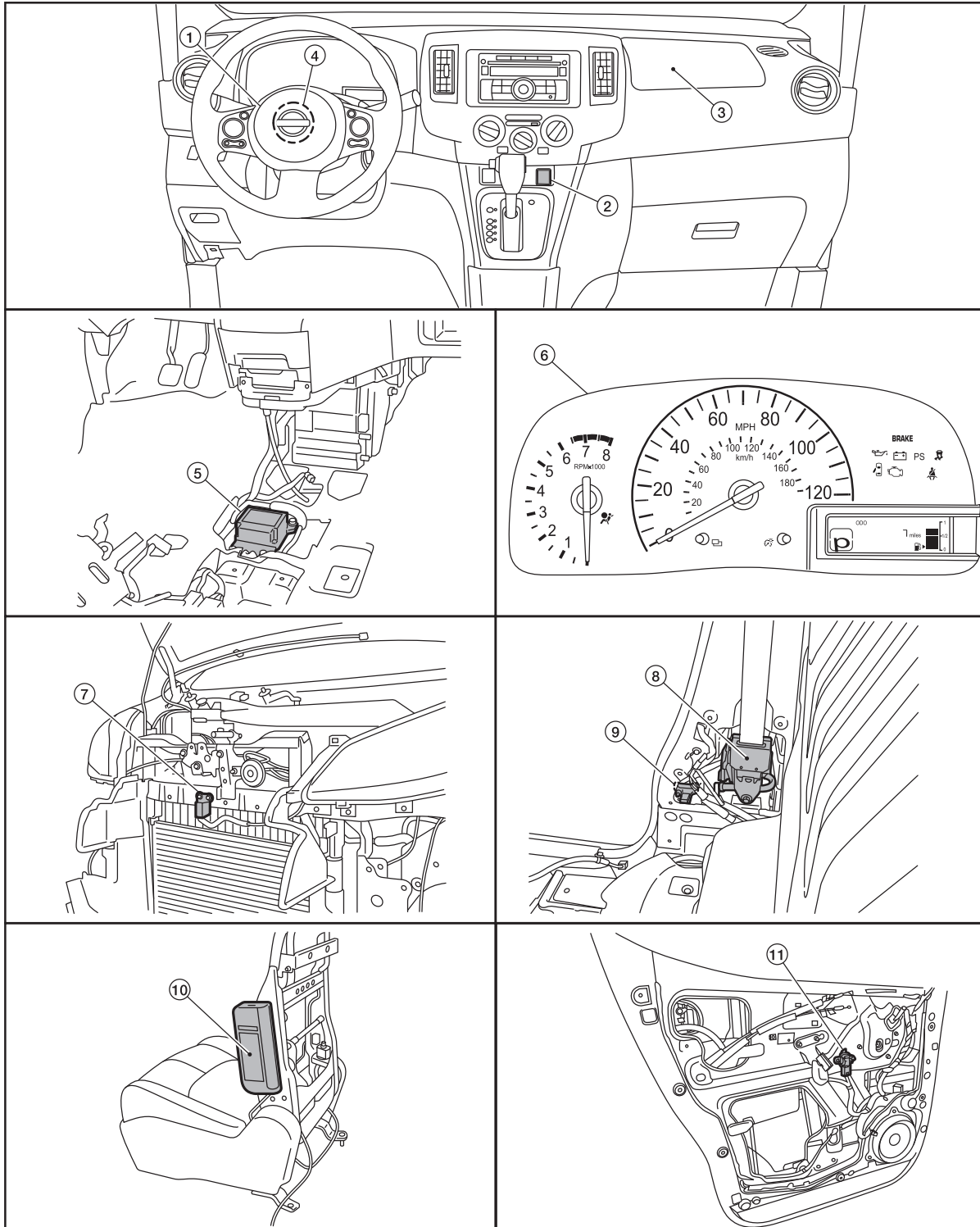
### Precautions When Using Power Tools (Air or Electric) and Hammers

**WARNING:**

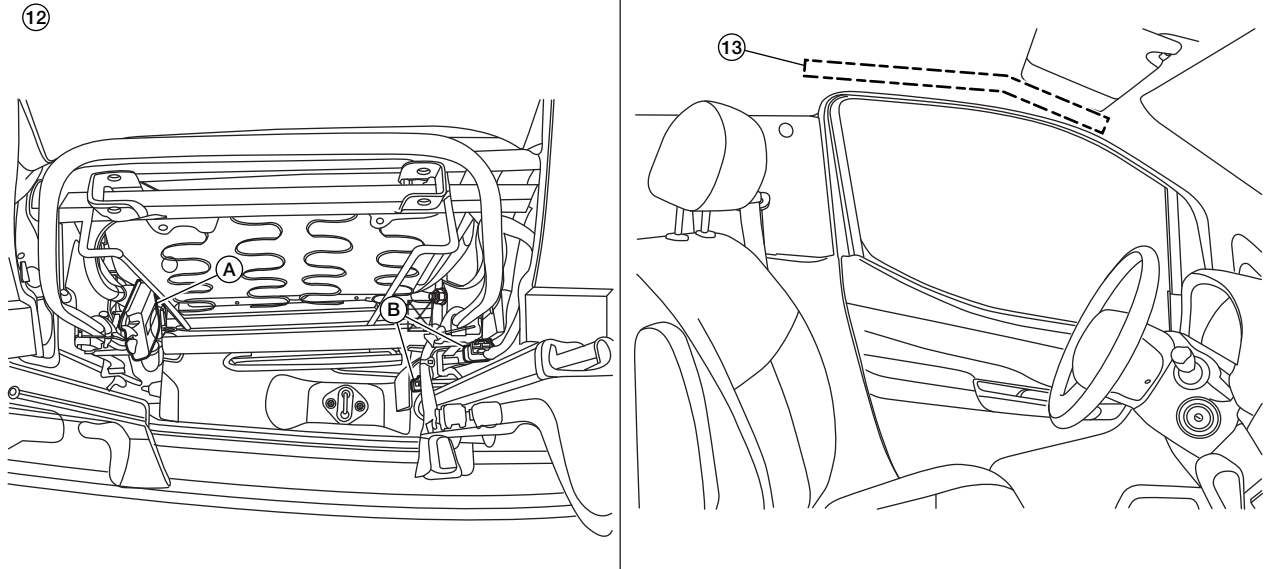
Always observe the following items for preventing accidental activation:

- When working near the Air bag Diagnosis Sensor Unit or other Air bag 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 or batteries, and wait at least 3 minutes before performing any service. Care should be taken to avoid damaging or contacting SRS components. Doing so may cause the system to improperly operate in the event of a collision.

**SRS COMPONENT LOCATIONS (2013–2017 MODEL YEARS)**



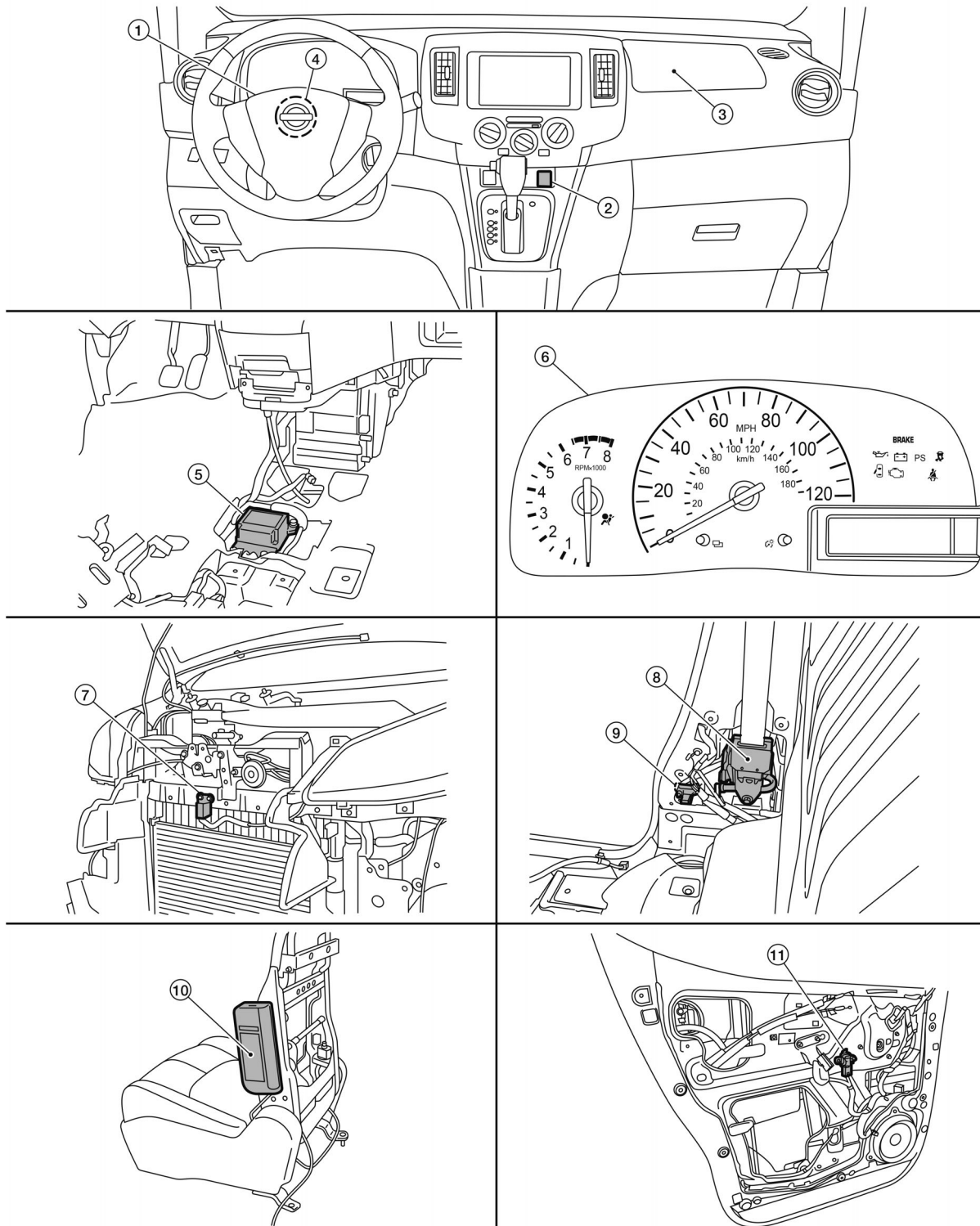
AAZIA0152ZZ



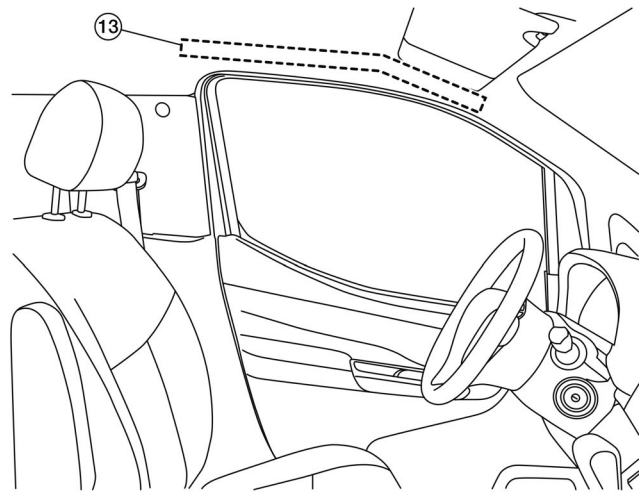
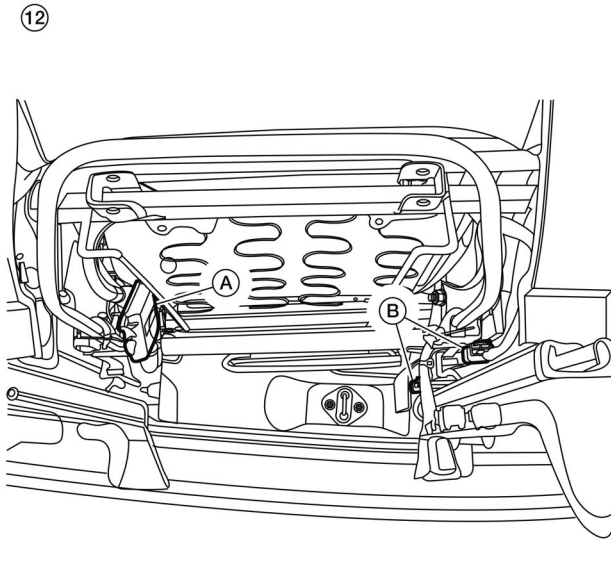
AAZIA0234ZZ

1. Driver air bag module
2. Passenger air bag OFF indicator
3. Front passenger air bag module
4. Spiral cable
5. Air bag diagnosis sensor unit (view with center console removed)
6. Instrument Cluster (SRS warning light)
7. Crash zone sensor (view with front grille removed)
8. Front LH seat belt pre-tensioner (RH similar) (view with lower center pillar cover removed)
9. Front side air bag satellite sensor LH (RH similar)
10. Front LH side air bag module (RH similar)
11. Front door satellite sensor LH (view with front door finisher LH removed) (RH similar)
12. A. Occupant classification control unit  
B. Occupant classification system sensor
13. LH side front curtain air bag module (RH similar)

**SRS COMPONENT LOCATIONS (2018–2020 MODEL YEARS)**



TGAAZIA0005ZZ



TGAZIA0006ZZ

1. Driver air bag module
2. Passenger air bag OFF indicator
3. Front passenger air bag module
4. Spiral cable
5. Air bag diagnosis sensor unit (view with center console removed)
6. Instrument Cluster (SRS warning light)
7. Crash zone sensor (view with front grille removed)
8. Front LH seat belt pre-tensioner (RH similar) (view with lower center pillar cover removed)
9. Front side air bag satellite sensor LH (RH similar)
10. Front LH side air bag module (RH similar)
11. Front door satellite sensor LH (view with front door finisher LH removed) (RH similar)
12. A. Occupant classification control unit  
B. Occupant classification system sensor
13. LH side front curtain air bag module (RH similar)

---

## OCCUPANT CLASSIFICATION SYSTEM

**WARNING:**

**After removal and installation of the front passenger seat, a zero point reset function must be performed. It is recommended that this be performed by a NISSAN dealer using a special tool. If zero point reset is not performed, the occupant classification system may not operate normally which may increase the risk of serious injury or death in a collision.**

**WARNING:**

**Do not disturb or modify the front passenger seat wiring. Failure to follow this instruction may cause incorrect operation of the occupant classification system and front passenger air bag or system failure and may increase the risk of serious injury or death in a collision.**

The front passenger seat is equipped with seat weight sensors as part of the supplemental restraints occupant classification system. The occupant classification sensors (weight sensors) are on the seat cushion frame under the front passenger seat and are designed to detect an occupant and objects on the seat. The front passenger air bag status lamp is illuminated when the system is disabled. For occupant classification system and front passenger air bag operation, refer to the Owner's Manual. For repair of the front passenger seat, occupant classification system, air bags or if an air bag warning lamp is illuminated, it is recommended that you visit a NISSAN dealer. For seat mounting and fastener torque specifications, refer to [Seat Mounting Holes \(pg. 103\)](#).

## FRONT AIR BAG DEPLOYMENT ZONES (2013–2016 MODEL YEARS)

### FRONT AIR BAG MODULE LOCATIONS



#### **WARNING:**

Modifications must not interfere with air bag modules or deployment zones. Damage to air bag modules may cause serious personal injury or death. Objects placed within air bag deployment zones may cause serious personal injury or death.

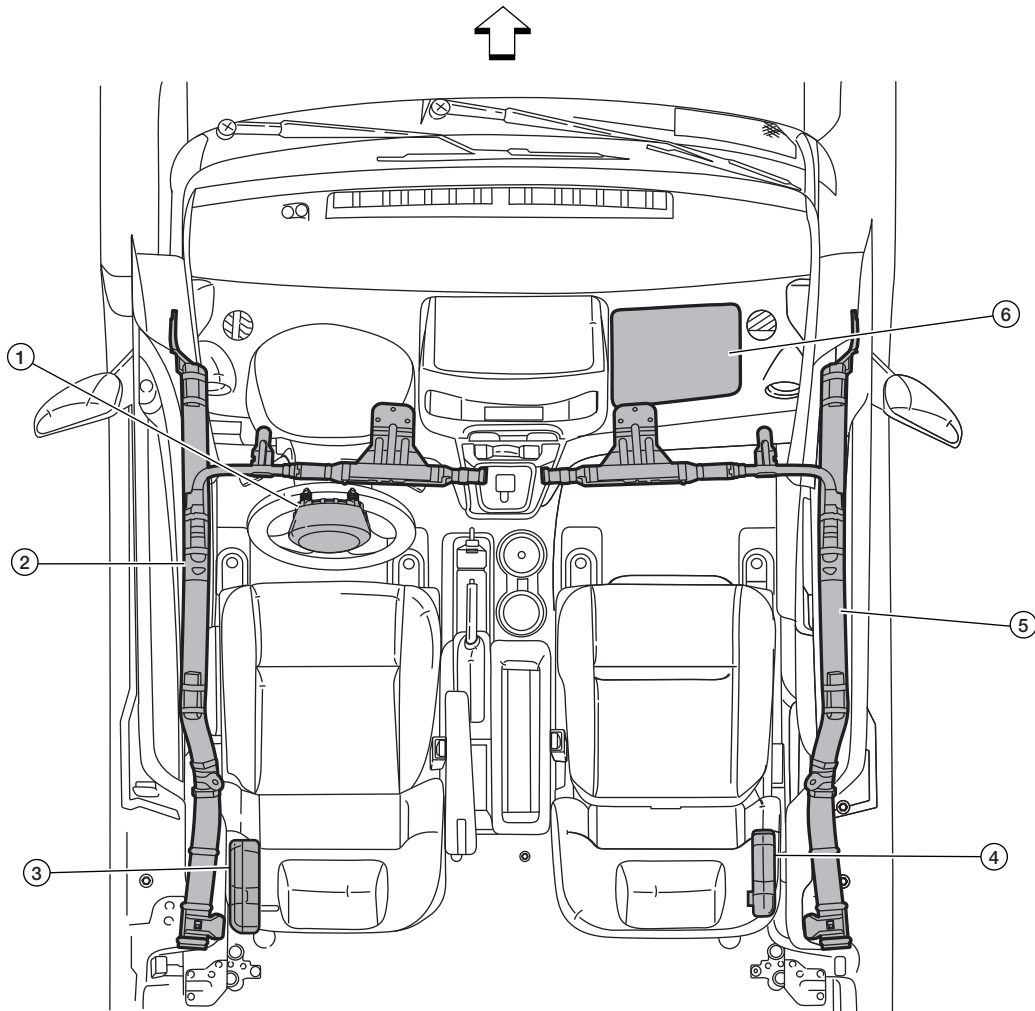
#### **NOTE:**

Do not add accessory items that, when installed, will interfere with the installed position of the air bag or the zones of the deploying air bags.



### Front Air Bag Modules — Overhead View

 = Air Bag Module Locations (No modifications in these areas.)



AAZIA0335GB

: Front of vehicle.

1. Driver air bag module

2. Side curtain air bag module, driver

3. Side air bag module, driver

4. Side air bag module, passenger

5. Side curtain air bag module, passenger

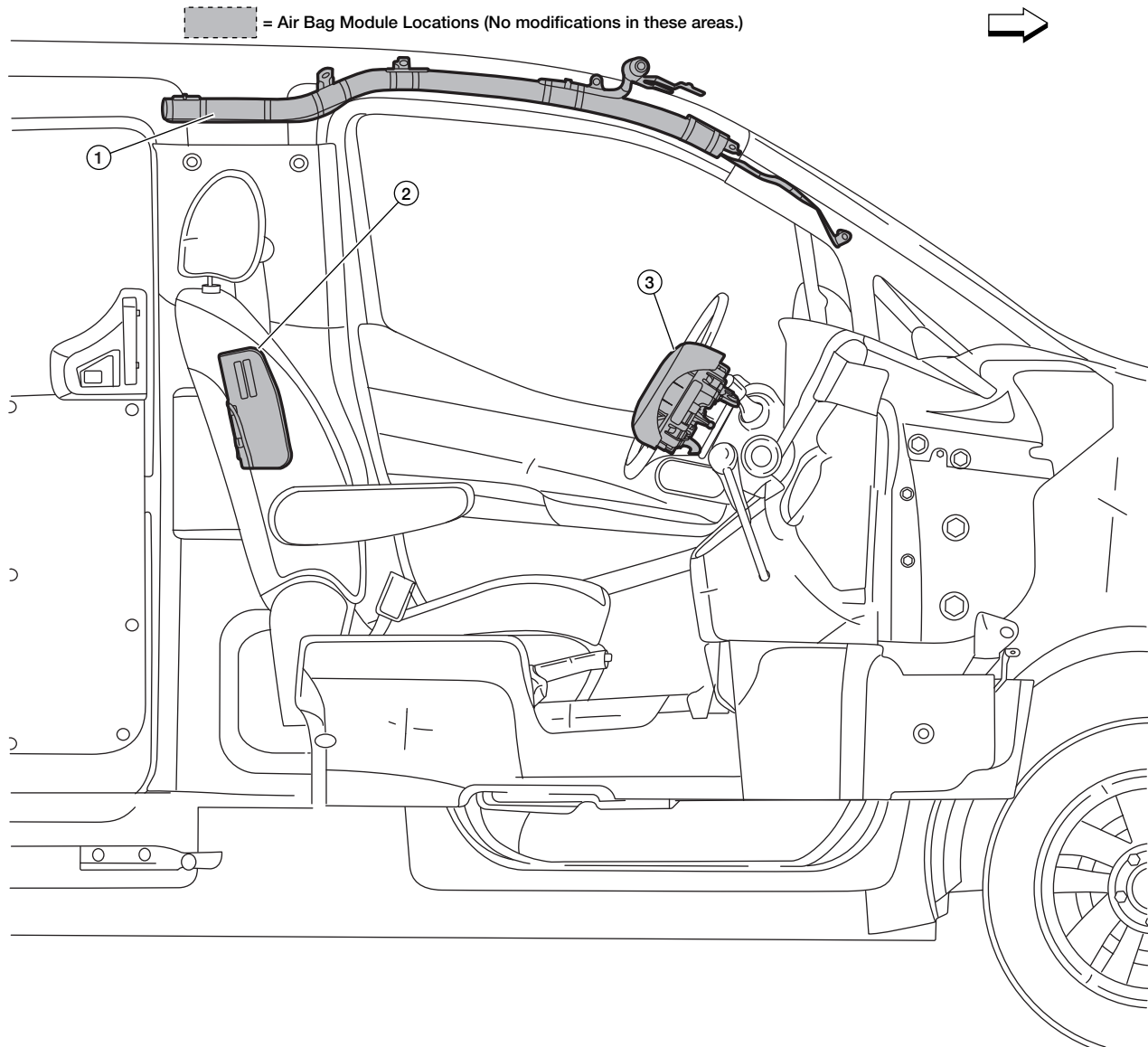
6. Front passenger air bag module



## FRONT AIR BAG DEPLOYMENT ZONES (2013–2016 MODEL YEARS)

[SAFETY INFORMATION]

### Front Air Bag Modules — Driver Side



AAZIA0336GB


↔: Front of vehicle.

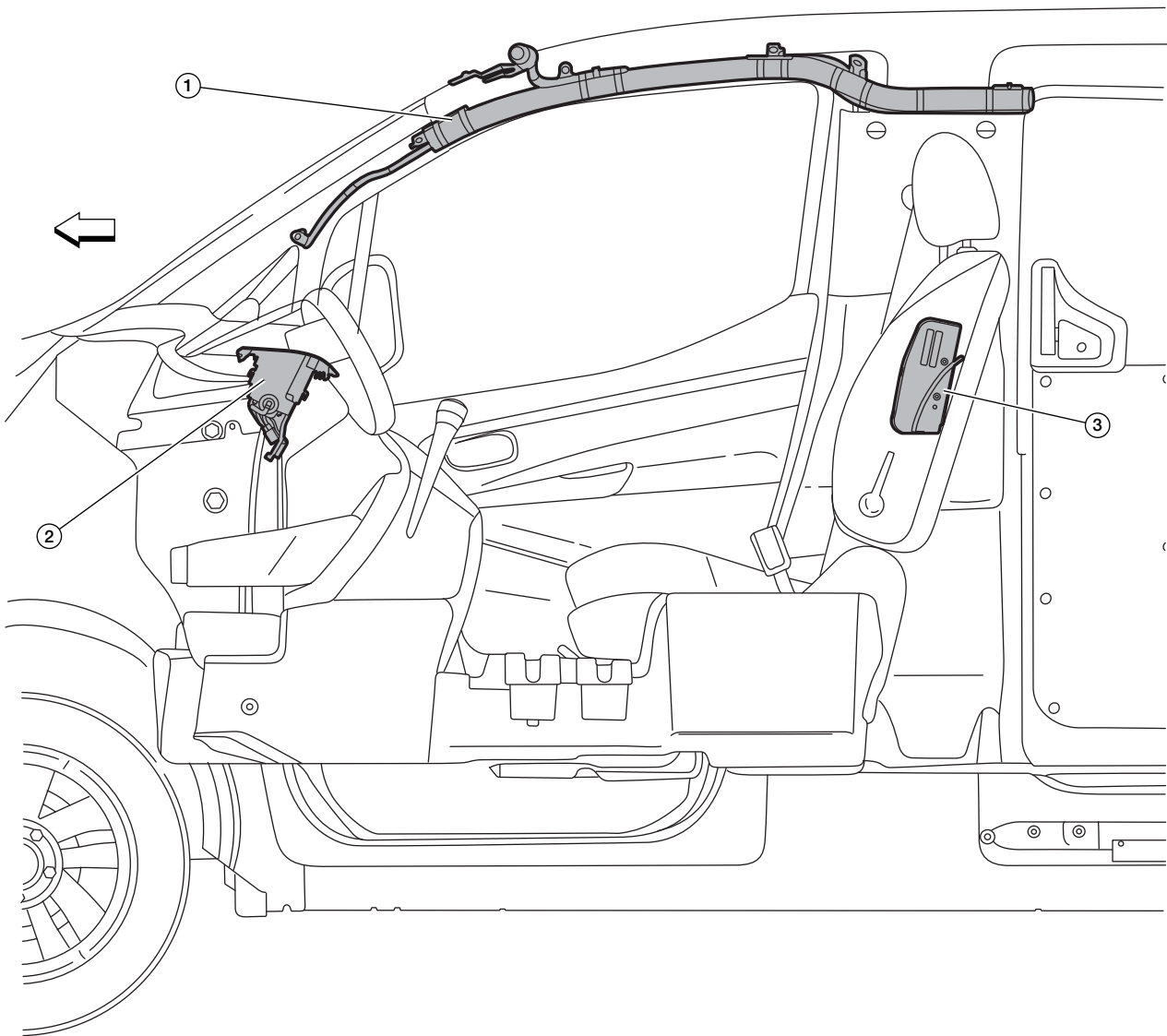
1. Side curtain air bag module (located behind LH side of headlining and across windshield header)

2. Side air bag module (located at outboard side of driver seat-back)

3. Driver air bag module (located in steering wheel)

### Front Air Bag Modules — Passenger Side

 = Air Bag Module Locations (No modifications in these areas.)



AAZIA0337GB

: Front of vehicle.

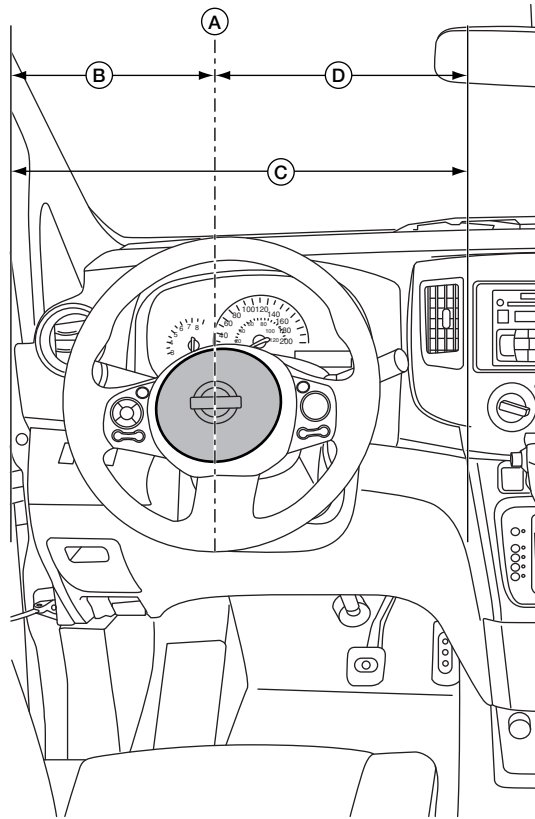
1. Side curtain air bag module (located behind RH side of headlining and across windshield header)

2. Front passenger air bag module (located in RH side of instrument panel)

3. Side air bag module (located at outboard side of passenger seatback)

### Driver Air Bag Deployment Width

 = Driver Air Bag Module



AAZIA0343GB


A. Center of the driver air bag module housing

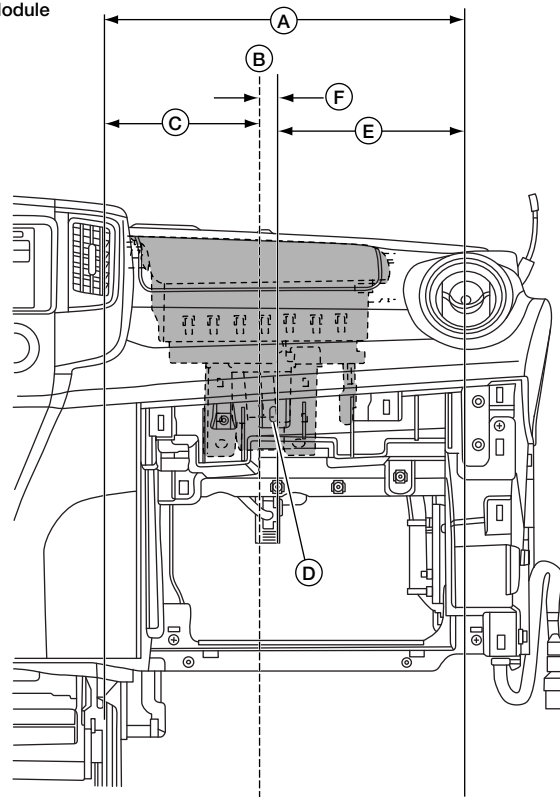
B. 267.5 mm (10.53 in)

C. Maximum lateral projection of the deployed driver air bag 535 mm (21.06 in)

D. 267.5 mm (10.53 in)

### Front Passenger Air Bag Deployment Width

 = Front Passenger Air Bag Module



AAZIA0344GB

A. Maximum lateral projection of the deployed front passenger air bag 475 mm (18.7 in)

B. Center of front passenger air bag module housing

C. 237.5 mm (9.35 in)

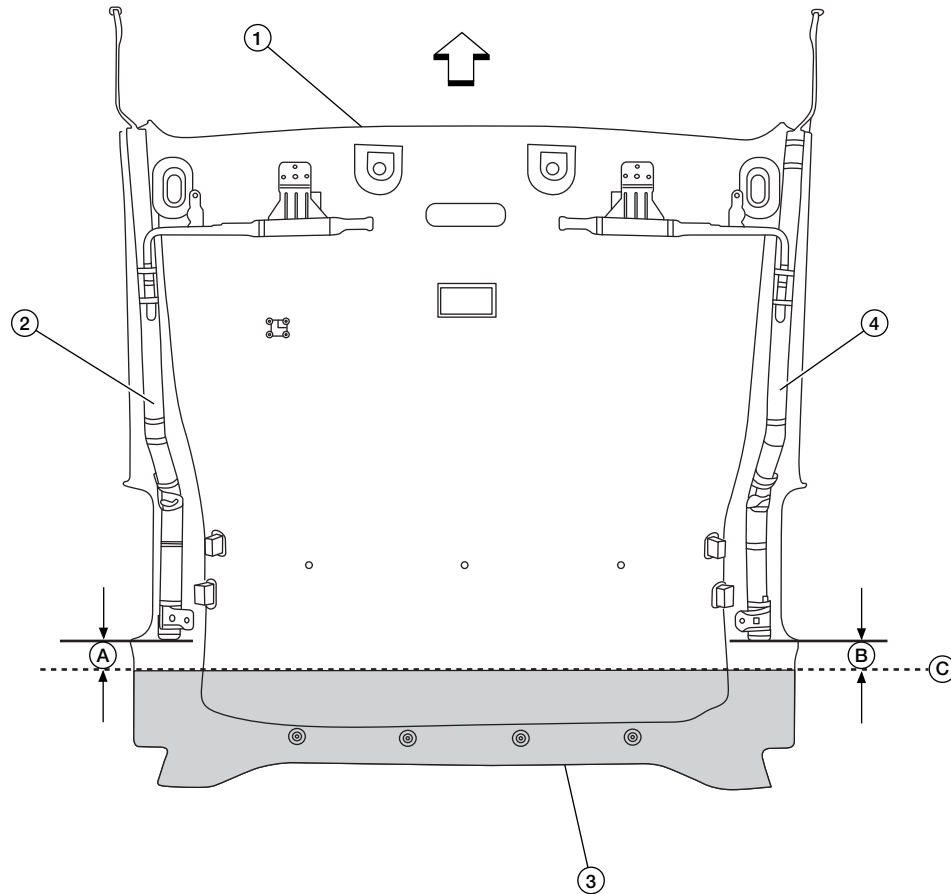
D. Reference point: glove box striker inboard fastener

E. 199 mm (7.83 in)

F. 38.5 mm (1.52 in)

### HEADLINING CUT — FRONT SIDE CURTAIN AIR BAGS CLEARANCE FOR BULKHEAD INSTALLATION

Overhead cutaway view with roof panel removed.



AAZIA0307ZZ

↖: Front of vehicle.

1. Headlining

2. Driver side curtain air bag module

3. Portion of headlining to be cut off and discarded

4. Passenger side curtain air bag module

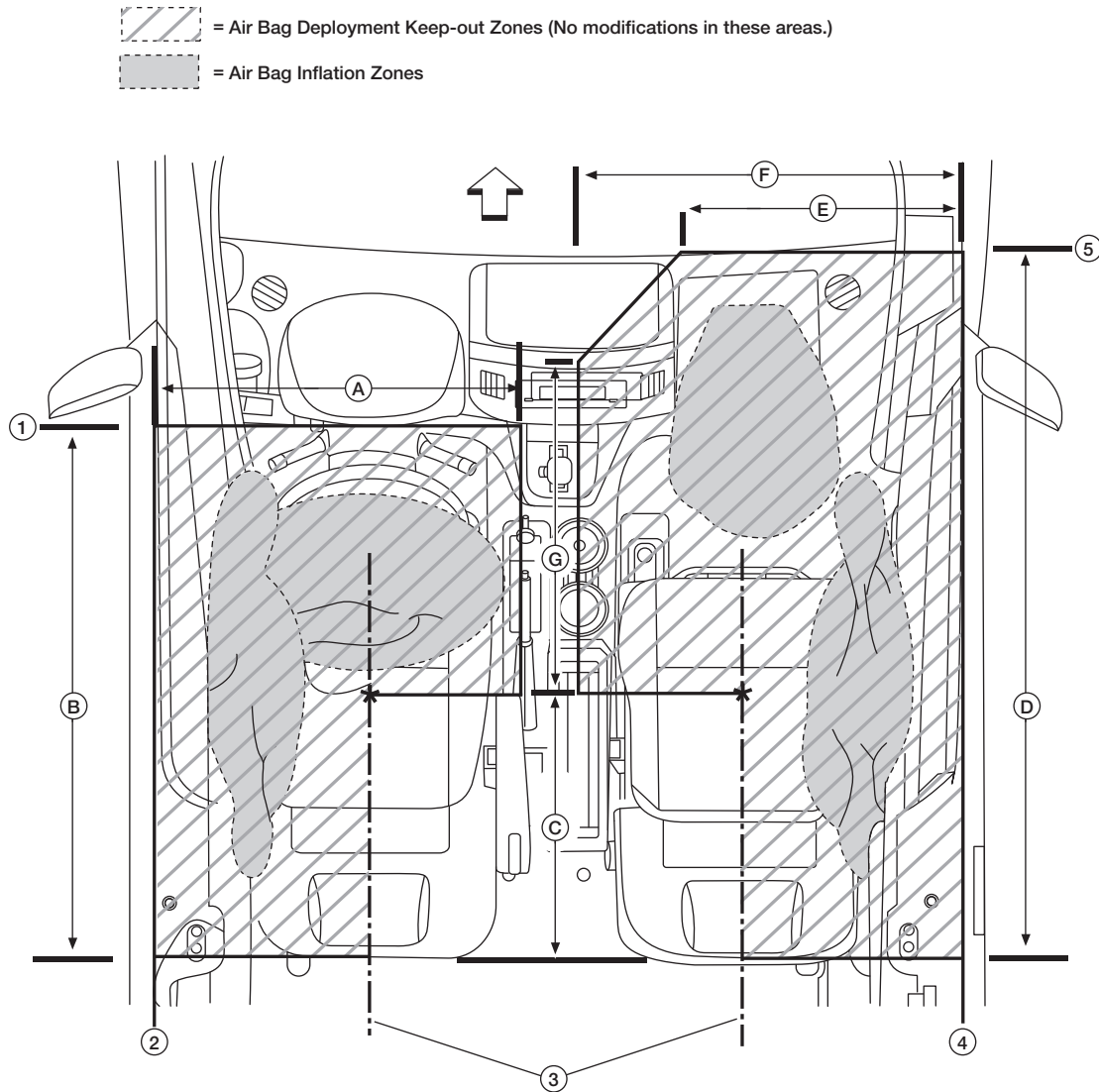
A. 50 mm (1.97 in)

B. 50 mm (1.97 in)

C. Headlining cut line (50 mm [1.97 in] behind rear edge of side curtain air bag module's rolled material)

### AIR BAG DEPLOYMENT KEEP-OUT ZONES

#### Front Air Bag Keep-Out Zones — Overhead View



AAZIA0354GB

↖: Front of vehicle.

\* Center of seat

1. Reference point: instrument panel edge

4. Reference point: door glass trim edge

B. 1,050 mm (41.34 in)

E. 580 mm (22.83 in)

2. Reference point: door glass trim edge

5. Reference point: instrument panel seam

C. 500 mm (19.69 in)

F. 732.1 mm (28.82 in)

3. Reference point: seat center lines

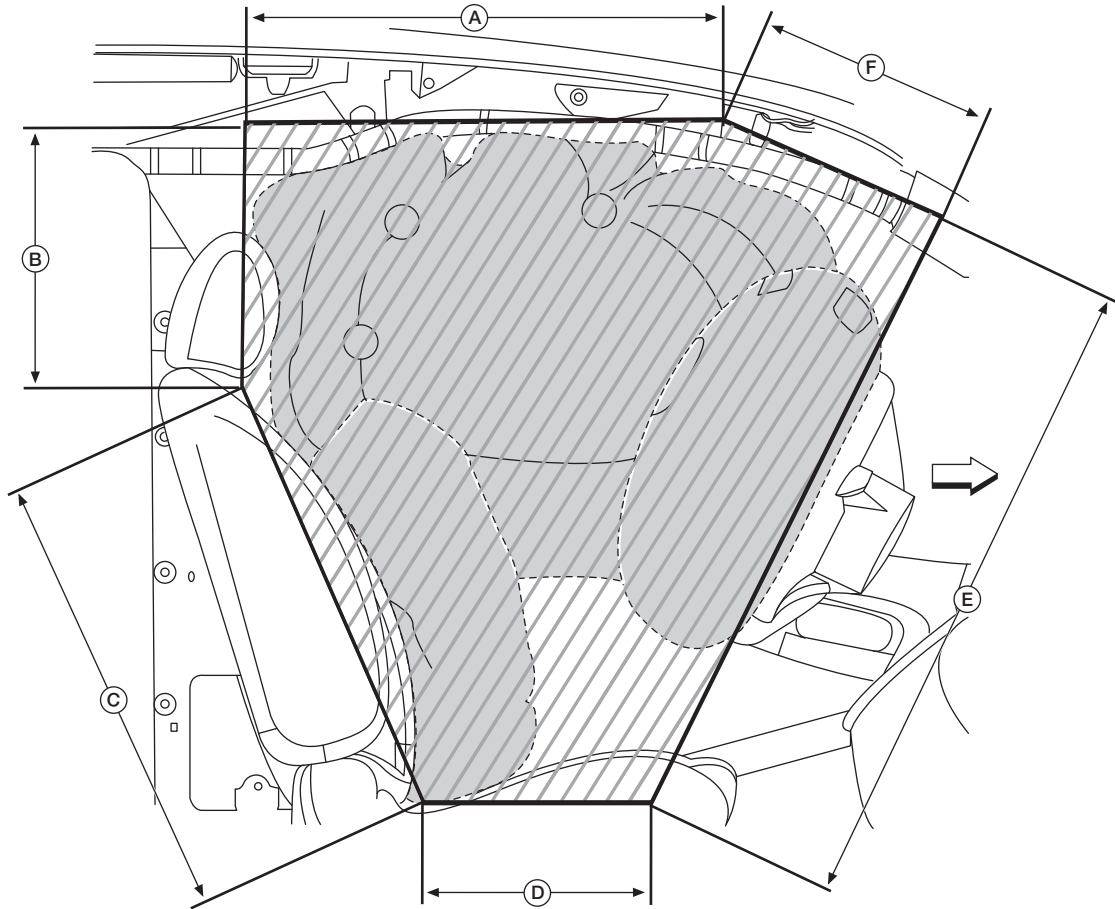
A. 735 mm (28.94 in)

D. 1,415 mm (55.71 in)

G. 651 mm (25.63 in)

### Front Air Bag Keep-Out Zone — Driver Side View

-  = Air Bag Deployment Keep-out Zone (No modifications in this area.)
-  = Air Bag Inflation Zone



AAZIA0358GB

↖: Front of vehicle.

A. 635 mm (25 in)

B. 510 mm (20.08 in)


C. 685 mm (26.97 in)

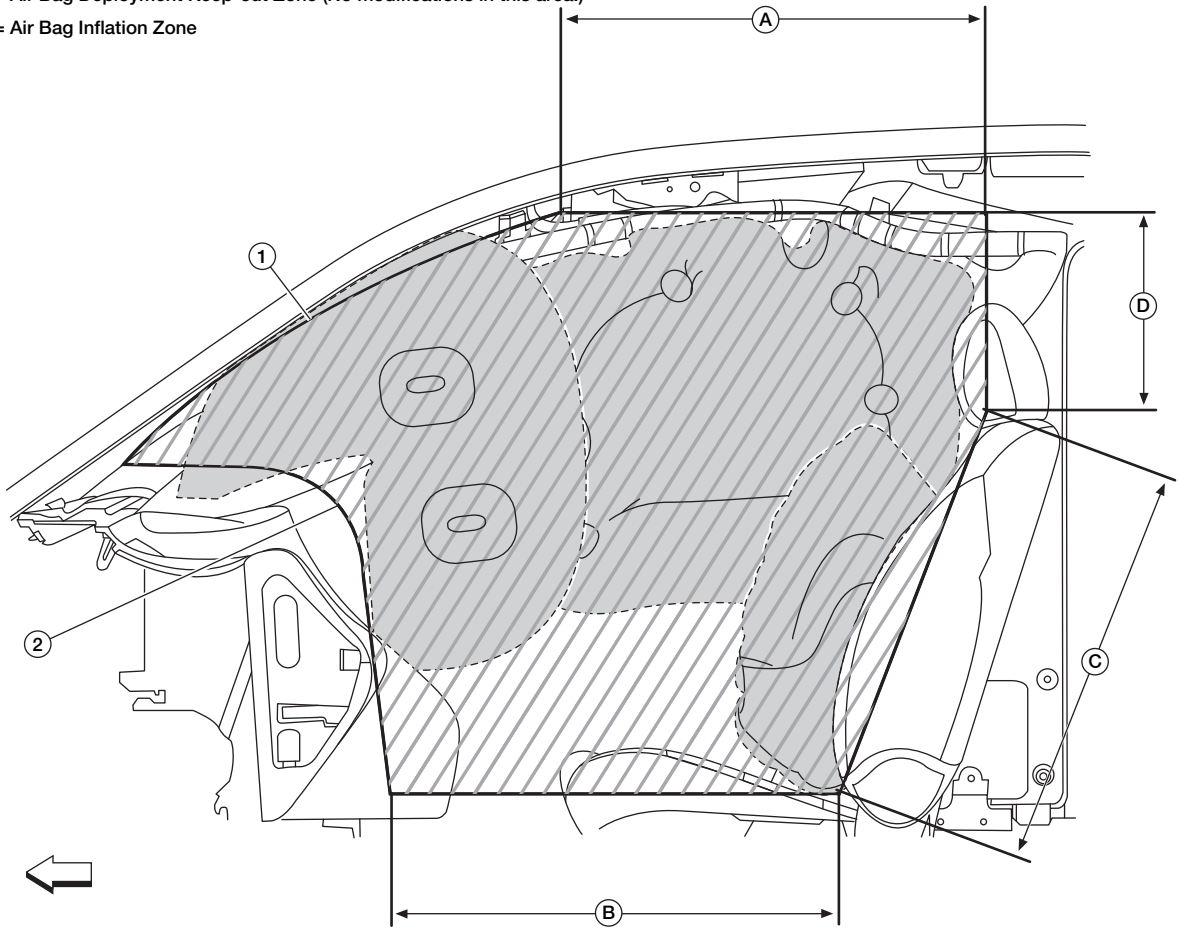
D. 405 mm (15.94 in)

E. 915 mm (36.02 in)

F. 355 mm (13.98 in)

### Front Air Bag Keep-Out Zone — Passenger Side View

-  = Air Bag Deployment Keep-out Zone (No modifications in this area.)  
 = Air Bag Inflation Zone



AAZIA0359GB

↩: Front of vehicle.

1. Reference point: zone follows windshield surface

2. Reference point: zone follows instrument panel surface contour

A. 635 mm (25.00 in)

B. 405 mm (15.94 in)

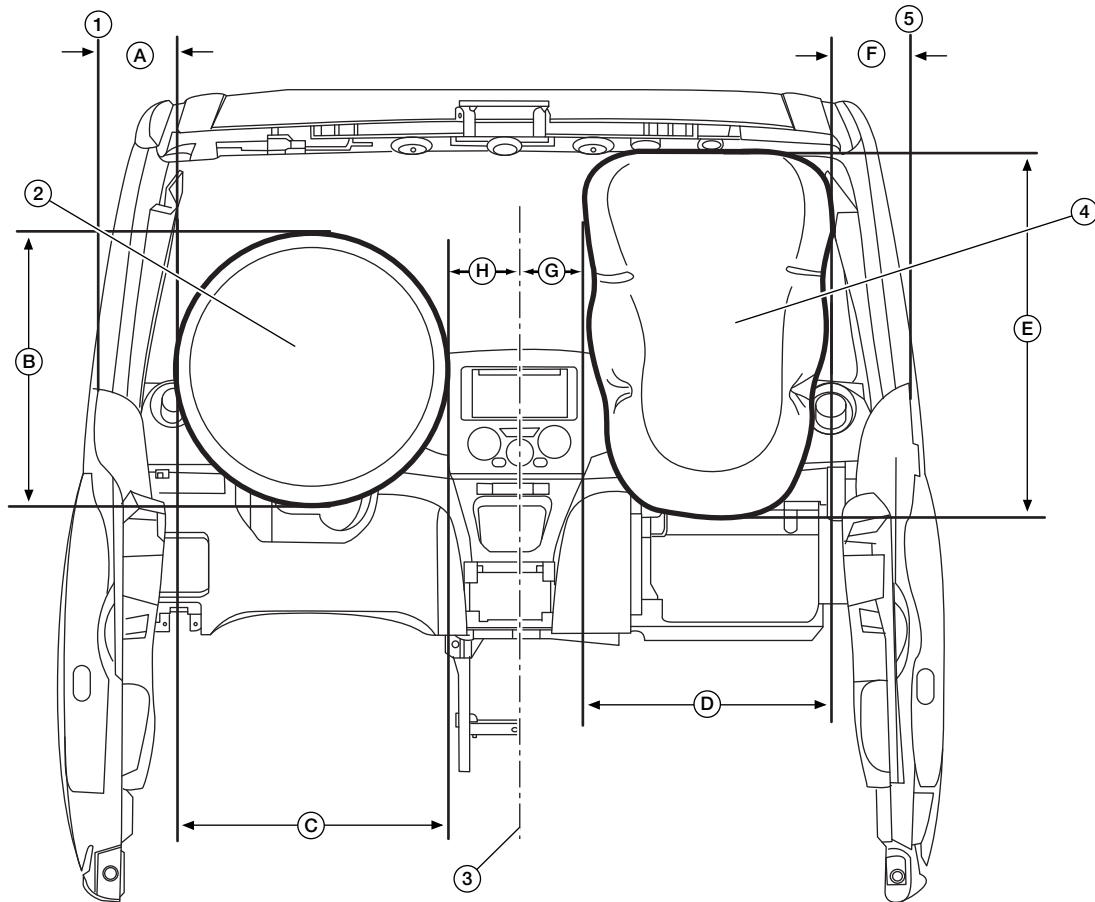
C. 685 mm (26.97 in)

D. 510 mm (20.08 in)



### INFLATED AIR BAG ZONE DIMENSIONS

#### Driver and Passenger Air Bag Inflation Zones — Forward View



AAZIA0258ZZ

1. Reference point: door glass trim edge

4. Maximum inflated front passenger air bag

B. 535 mm (21.06 in)

E. 690 mm (27.17 in)

H. 125 mm (4.92 in)

2. Maximum inflated driver air bag

5. Reference point: door glass trim edge

C. 535 mm (21.06 in)

F. 150 mm (5.91 in) between door glass trim edge and air bag.

3. Reference point: vehicle center line

A. 150 mm (5.91 in) between door glass trim edge and air bag.

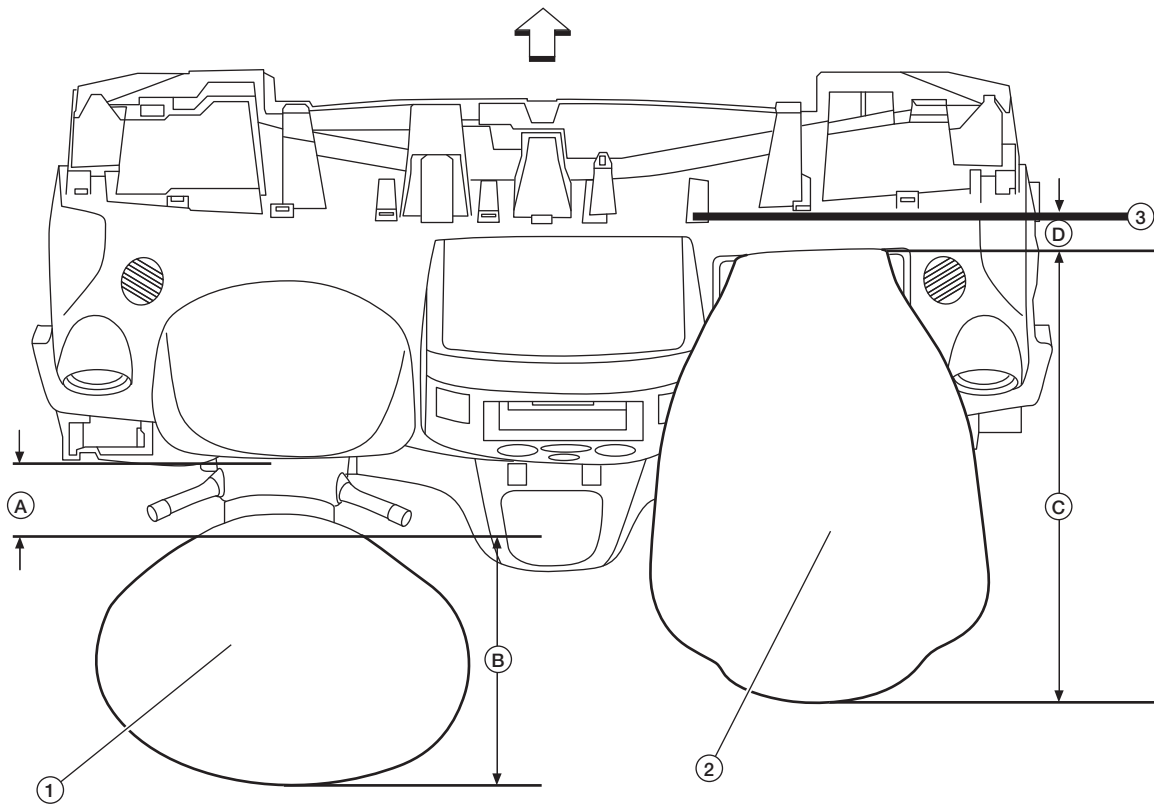
D. 475 mm (18.70 in)

G. 120 mm (4.72 in)

## FRONT AIR BAG DEPLOYMENT ZONES (2013–2016 MODEL YEARS)

[SAFETY INFORMATION]

### Front Air Bag Inflation Zones — Overhead View



AAZIA0259ZZ

↖: Front of vehicle.

1. Maximum inflated driver air bag

A. 110 mm (4.33 in) between instrument panel and air bag.

D. 40 mm (1.57 in)

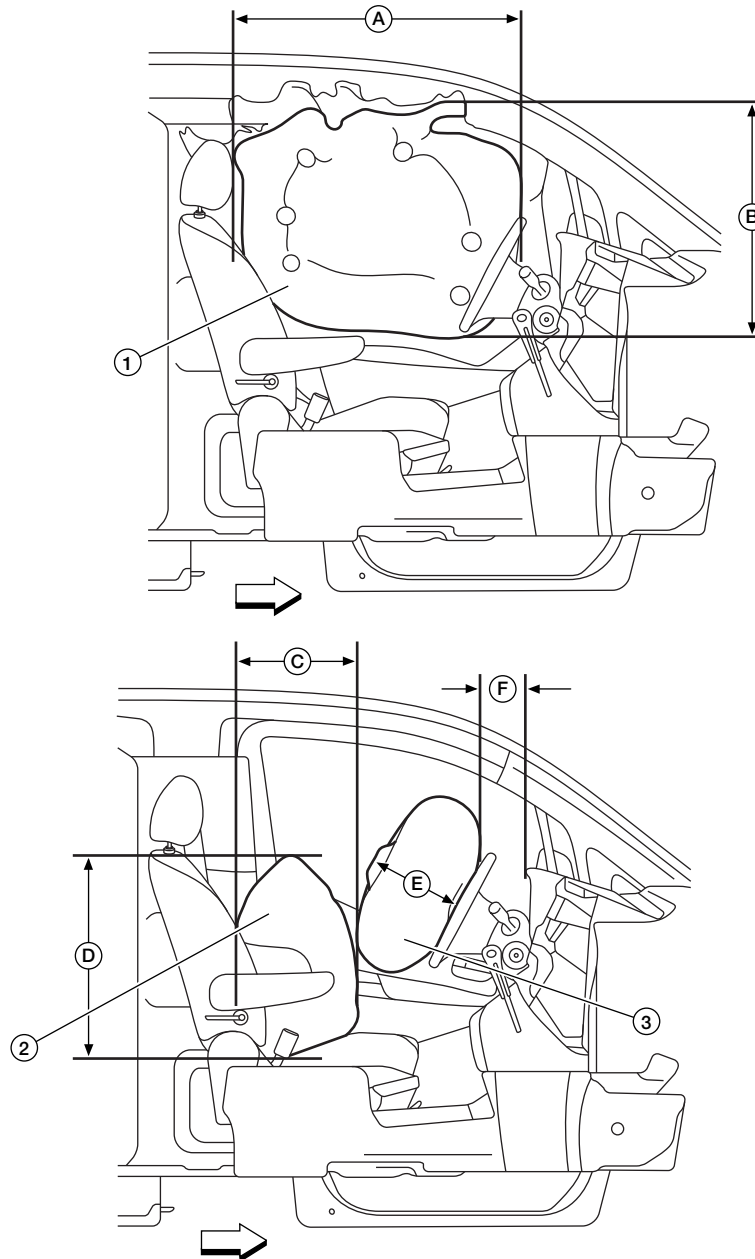
2. Maximum inflated front passenger air bag

B. 340 mm (13.39 in)

3. Reference point: instrument panel seam

C. 645 mm (25.39 in)

## Front Air Bag Inflation Zones — Driver Side View



AAZIA0256ZZ

➡: Front of vehicle.

1. Maximum inflated side curtain air bag

A. 760 mm (29.92 in)

D. 550 mm (21.65 in)

2. Maximum inflated side air bag

B. 750 mm (29.53 in)

E. 200 mm (7.87 in)

3. Maximum inflated driver air bag

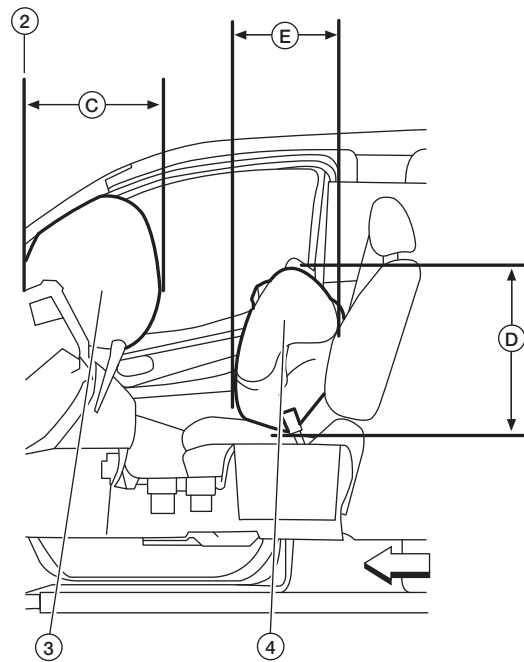
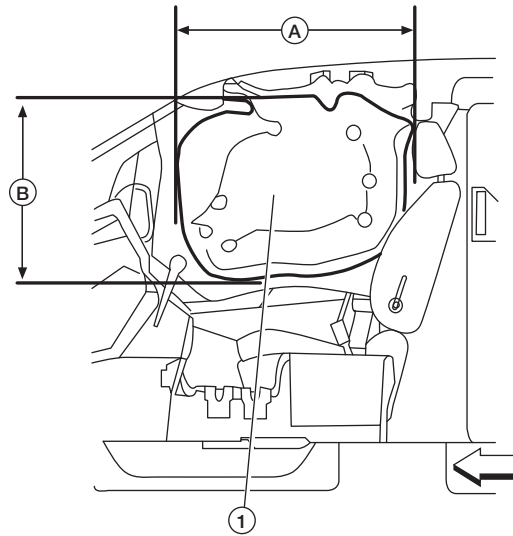
C. 350 mm (13.78 in )

F. 110 mm (4.33 in) between instrument panel and air bag.

# FRONT AIR BAG DEPLOYMENT ZONES (2013–2016 MODEL YEARS)

[SAFETY INFORMATION]

## Front Air Bag Inflation Zones — Passenger Side View



AAZIA0257ZZ

↔: Front of vehicle.

1. Maximum inflated side curtain air bag

4. Maximum inflated side air bag

C. 645 mm (25.39 in)

2. Front edge of front passenger air bag module

A. 760 mm (29.92 in)

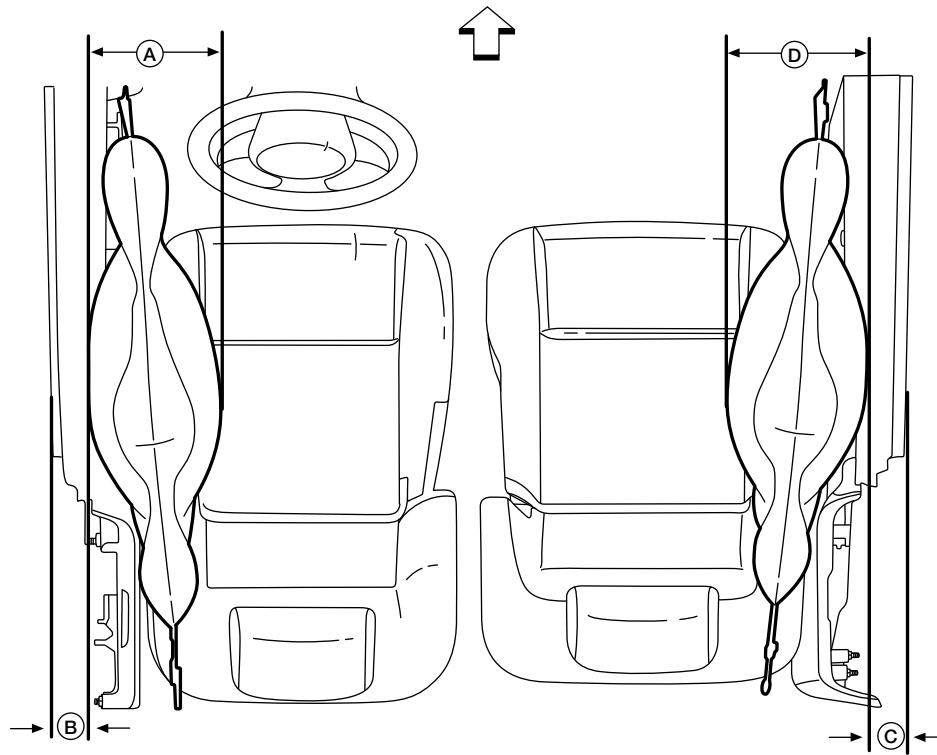
D. 550 mm (21.65 in)

3. Maximum inflated front passenger air bag

B. 750 mm (29.53 in)

E. 350 mm (13.78 in)

## Side Curtain Air Bag Inflation Zones — Overhead View



AAZIA0260ZZ

↖: Front of vehicle.

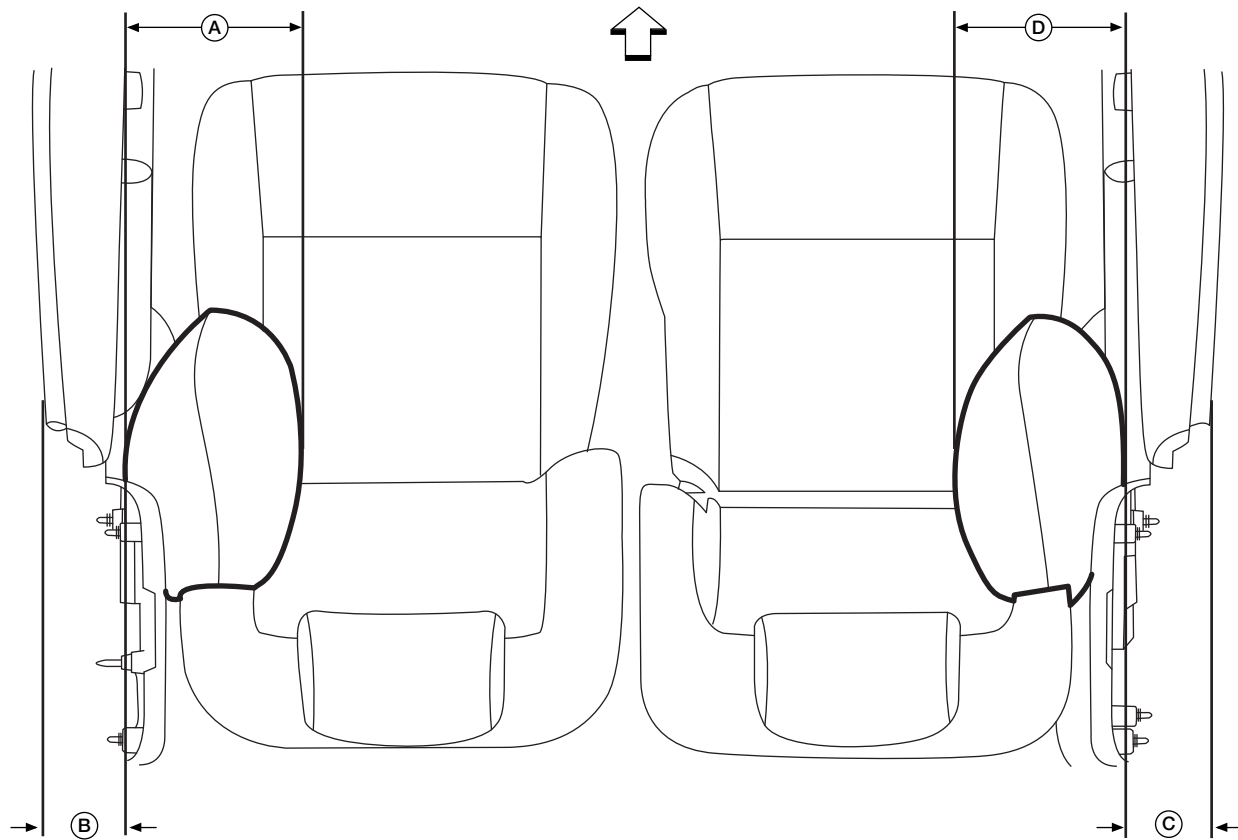
A. 210 mm (8.27 in)

B. 60 mm (2.36 in) between door glass trim edge and air bag.

C. 60 mm (2.36 in) between door glass trim edge and air bag.

D. 210 mm (8.27 in)

## Side Air Bag Inflation Zones — Overhead View



AAZIA0261ZZ

↖: Front of vehicle.

A. 200 mm (7.87 in)

B. 115 mm (4.53 in) between door glass trim edge and air bag.

C. 115 mm (4.53 in) between door glass trim edge and air bag.

D. 200 mm (7.87 in)

## FRONT AIR BAG DEPLOYMENT ZONES (2017 MODEL YEAR)

### FRONT AIR BAG MODULE LOCATIONS



#### **WARNING:**

Modifications must not interfere with air bag modules or deployment zones. Damage to air bag modules may cause serious personal injury or death. Objects placed within air bag deployment zones may cause serious personal injury or death.


#### **NOTE:**

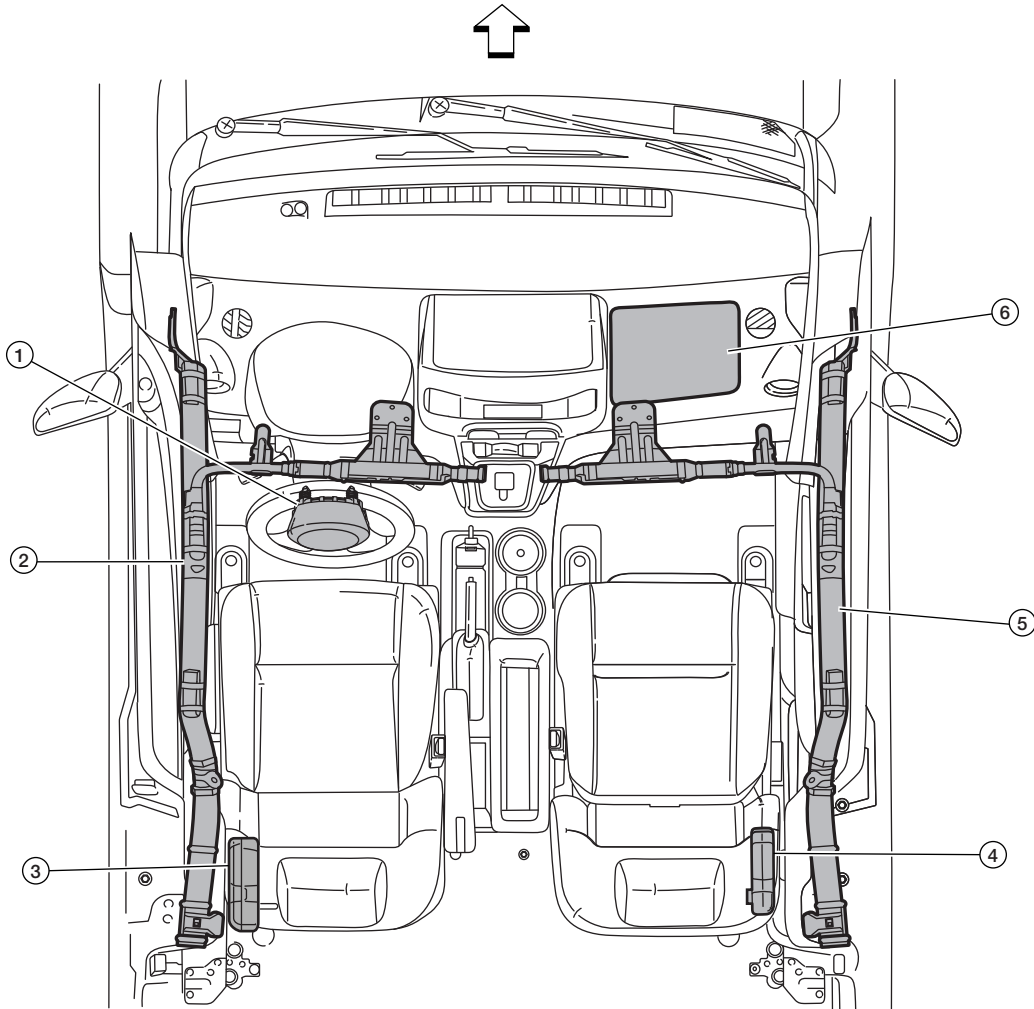
Do not add accessory items that, when installed, will interfere with the installed position of the air bag or the zones of the deploying air bags.

## FRONT AIR BAG DEPLOYMENT ZONES (2017 MODEL YEAR)

[SAFETY INFORMATION]

### Front Air Bag Modules — Overhead View

 = Air Bag Module Locations (No modifications in these areas.)



AAZIA0335GB

: Front of vehicle.

1. Driver air bag module

2. Side curtain air bag module,  
driver

3. Side air bag module, driver

4. Side air bag module, passen-  
ger

5. Side curtain air bag module,  
passenger

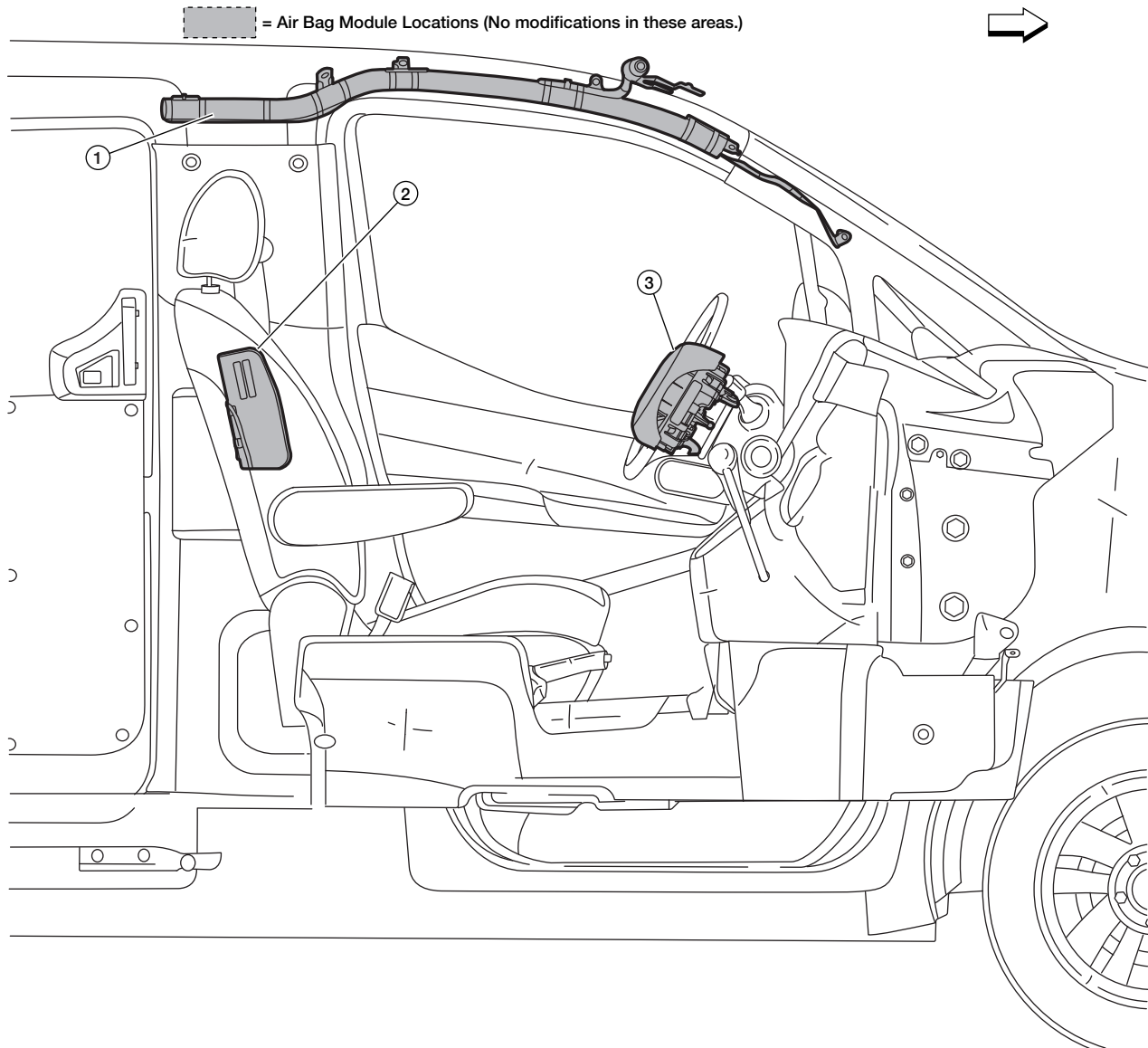
6. Front passenger air bag  
module



## FRONT AIR BAG DEPLOYMENT ZONES (2017 MODEL YEAR)

[SAFETY INFORMATION]

### Front Air Bag Modules — Driver Side



AAZIA0336GB

↔: Front of vehicle.

1. Side curtain air bag module (located behind LH side of headlining and across windshield header)

2. Side air bag module (located at outboard side of driver seat-back)

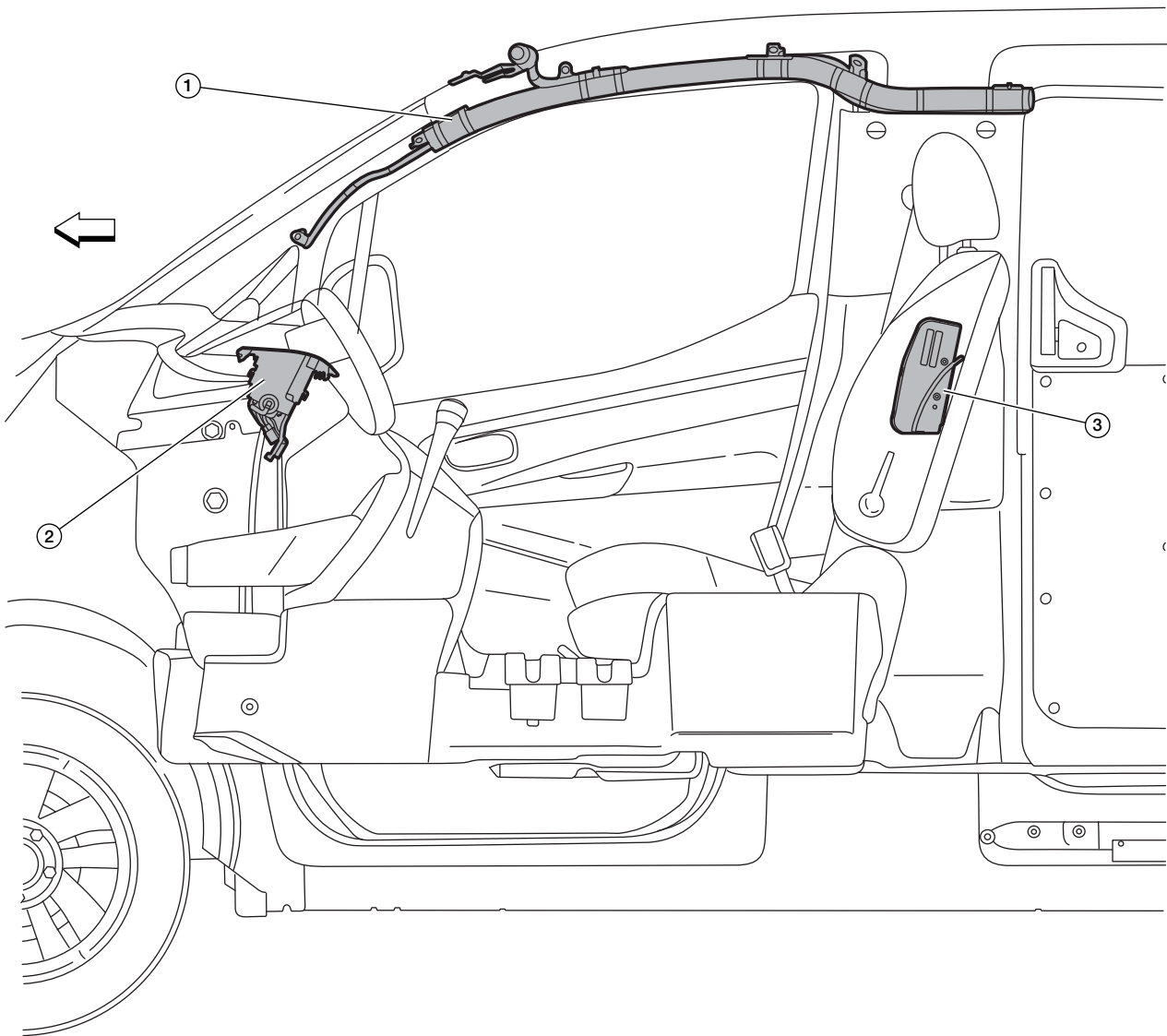
3. Driver air bag module (located in steering wheel)

## FRONT AIR BAG DEPLOYMENT ZONES (2017 MODEL YEAR)

[SAFETY INFORMATION]

### Front Air Bag Modules — Passenger Side

 = Air Bag Module Locations (No modifications in these areas.)



AAZIA0337GB

: Front of vehicle.

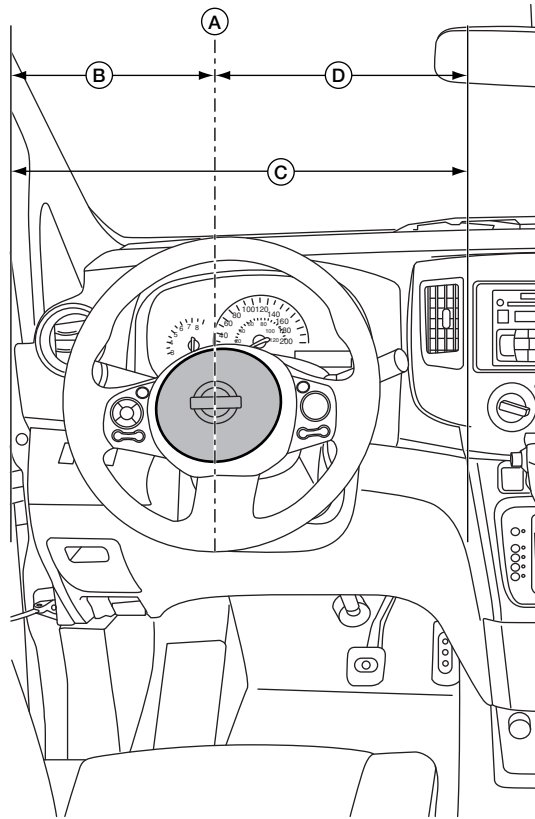
1. Side curtain air bag module (located behind RH side of headlining and across windshield header)

2. Front passenger air bag module (located in RH side of instrument panel)

3. Side air bag module (located at outboard side of passenger seatback)

### Driver Air Bag Deployment Width

 = Driver Air Bag Module



AAZIA0343GB


A. Center of the driver air bag module housing

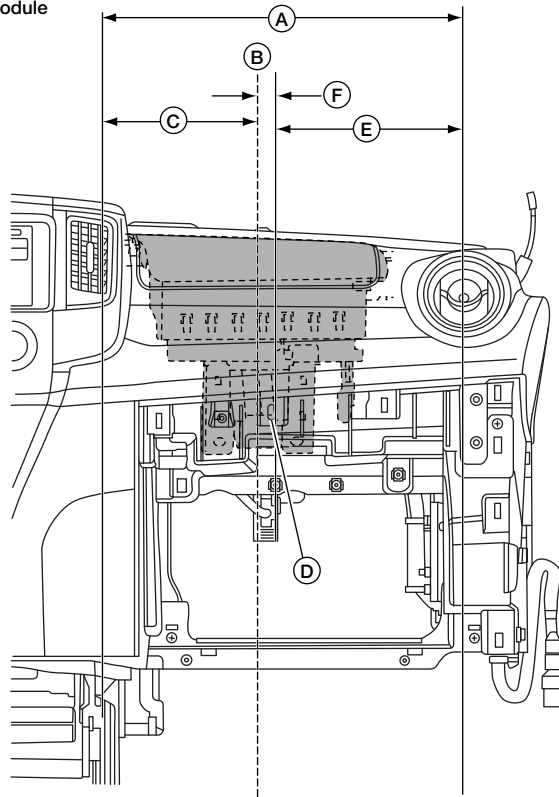
B. 267.5 mm (10.53 in)

C. Maximum lateral projection of the deployed driver air bag 535 mm (21.06 in)

D. 267.5 mm (10.53 in)

### Front Passenger Air Bag Deployment Width

 = Front Passenger Air Bag Module



AAZIA0344GB

A. Maximum lateral projection of the deployed front passenger air bag 475 mm (18.7 in)

B. Center of front passenger air bag module housing

C. 237.5 mm (9.35 in)

D. Reference point: glove box striker inboard fastener

E. 199 mm (7.83 in)

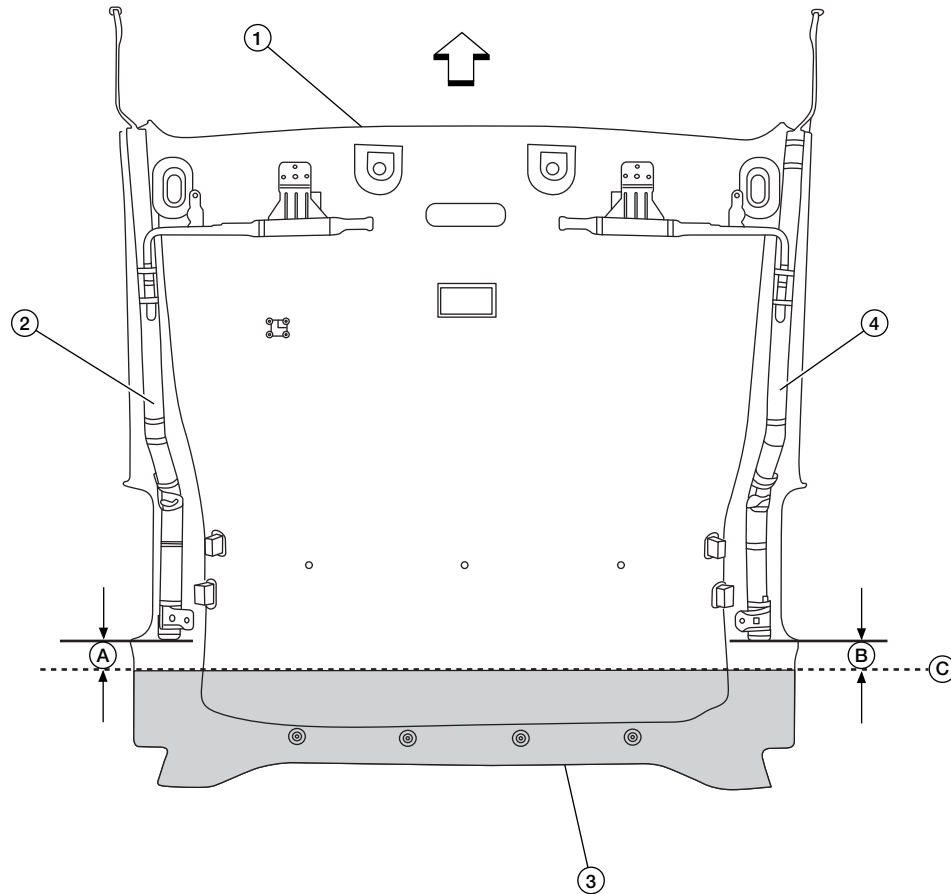
F. 38.5 mm (1.52 in)

## FRONT AIR BAG DEPLOYMENT ZONES (2017 MODEL YEAR)

[SAFETY INFORMATION]

### HEADLINING CUT — FRONT SIDE CURTAIN AIR BAGS CLEARANCE FOR BULKHEAD INSTALLATION

Overhead cutaway view with roof panel removed.



AAZIA0307ZZ

↖: Front of vehicle.

1. Headlining

2. Driver side curtain air bag module

3. Portion of headlining to be cut off and discarded

4. Passenger side curtain air bag module

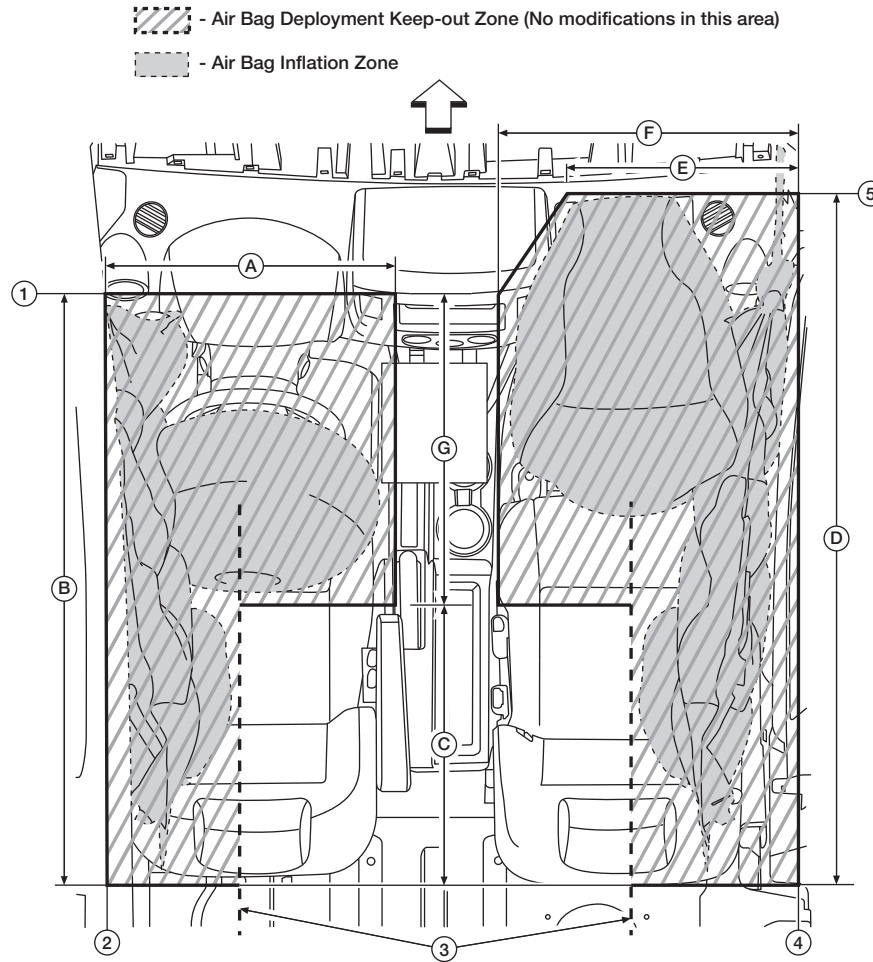
A. 50 mm (1.97 in)

B. 50 mm (1.97 in)

C. Headlining cut line (50 mm [1.97 in] behind rear edge of side curtain air bag module's rolled material)

## AIR BAG DEPLOYMENT KEEP-OUT ZONES

### Front Air Bag Keep-Out Zones — Overhead View



AAZIA0735ZZ

↖: Front of vehicle.

\* Center of seat

1. Reference point: instrument panel edge

4. Reference point: door glass trim edge

B. 1,050 mm (41.34 in)

E. 580 mm (22.83 in)

2. Reference point: door glass trim edge

5. Reference point: instrument panel seam

C. 500 mm (19.69 in)

F. 732.1 mm (28.82 in)

3. Reference point: seat center lines

A. 735 mm (28.94 in)

D. 1,415 mm (55.71 in)

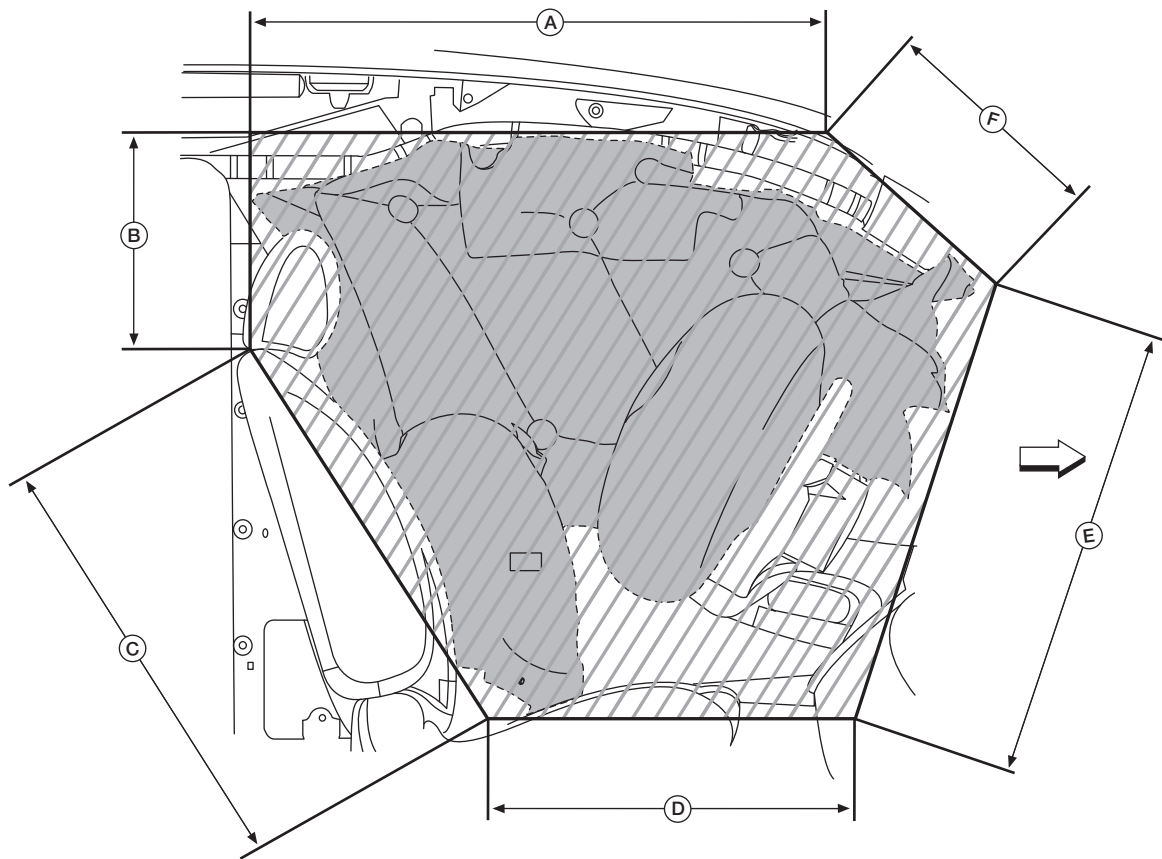
G. 651 mm (25.63 in)

## FRONT AIR BAG DEPLOYMENT ZONES (2017 MODEL YEAR)

[SAFETY INFORMATION]

### Front Air Bag Keep-Out Zone — Driver Side View

-  = Air Bag Deployment Keep-out Zone (No modifications in this area.)  
 = Air Bag Inflation Zone



AAZIA0411GB

↖: Front of vehicle.

A. 635 mm (25 in)

B. 510 mm (20.08 in)

C. 685 mm (26.97 in)

D. 405 mm (15.94 in)

E. 915 mm (36.02 in)

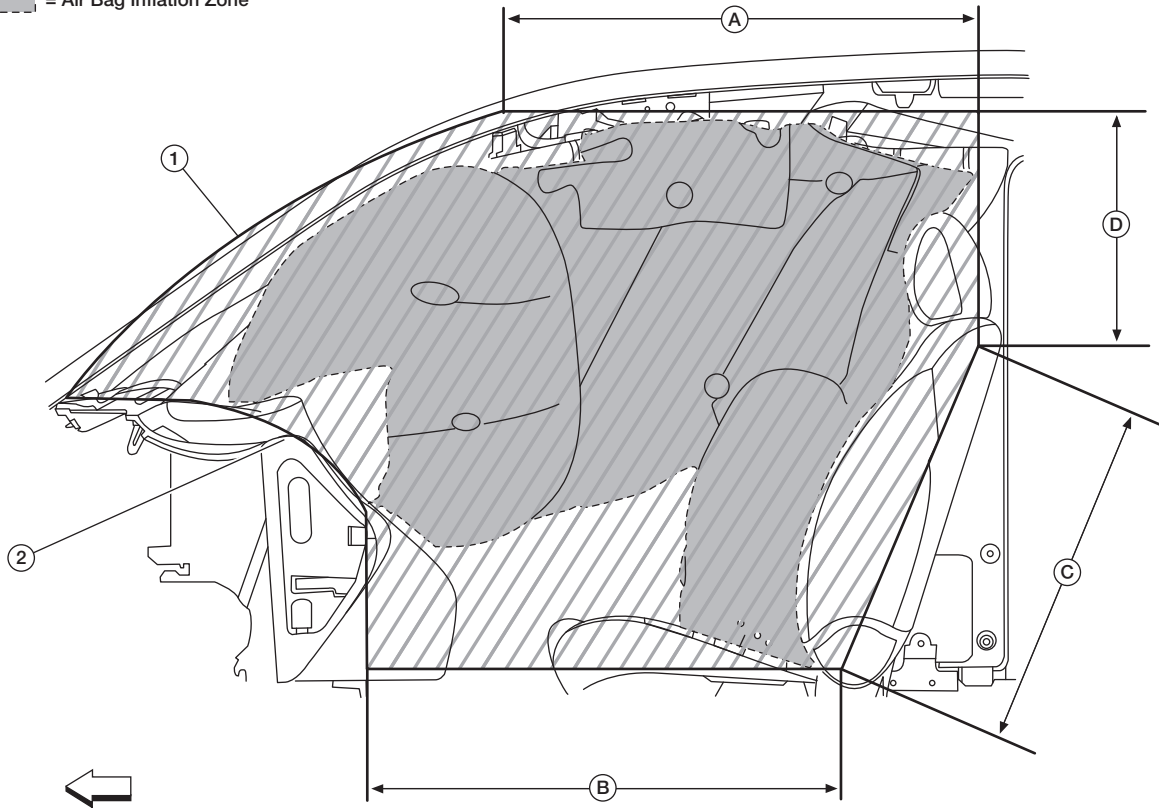
F. 355 mm (13.98 in)

# FRONT AIR BAG DEPLOYMENT ZONES (2017 MODEL YEAR)

[SAFETY INFORMATION]

## Front Air Bag Keep-Out Zone — Passenger Side View

-  = Air Bag Deployment Keep-out Zone (No modifications in this area.)  
 = Air Bag Inflation Zone



AAZIA0412GB

↖: Front of vehicle.

1. Reference point: zone follows windshield surface

2. Reference point: zone follows instrument panel surface contour

A. 635 mm (25.00 in)

B. 405 mm (15.94 in)

C. 685 mm (26.97 in)

D. 510 mm (20.08 in)

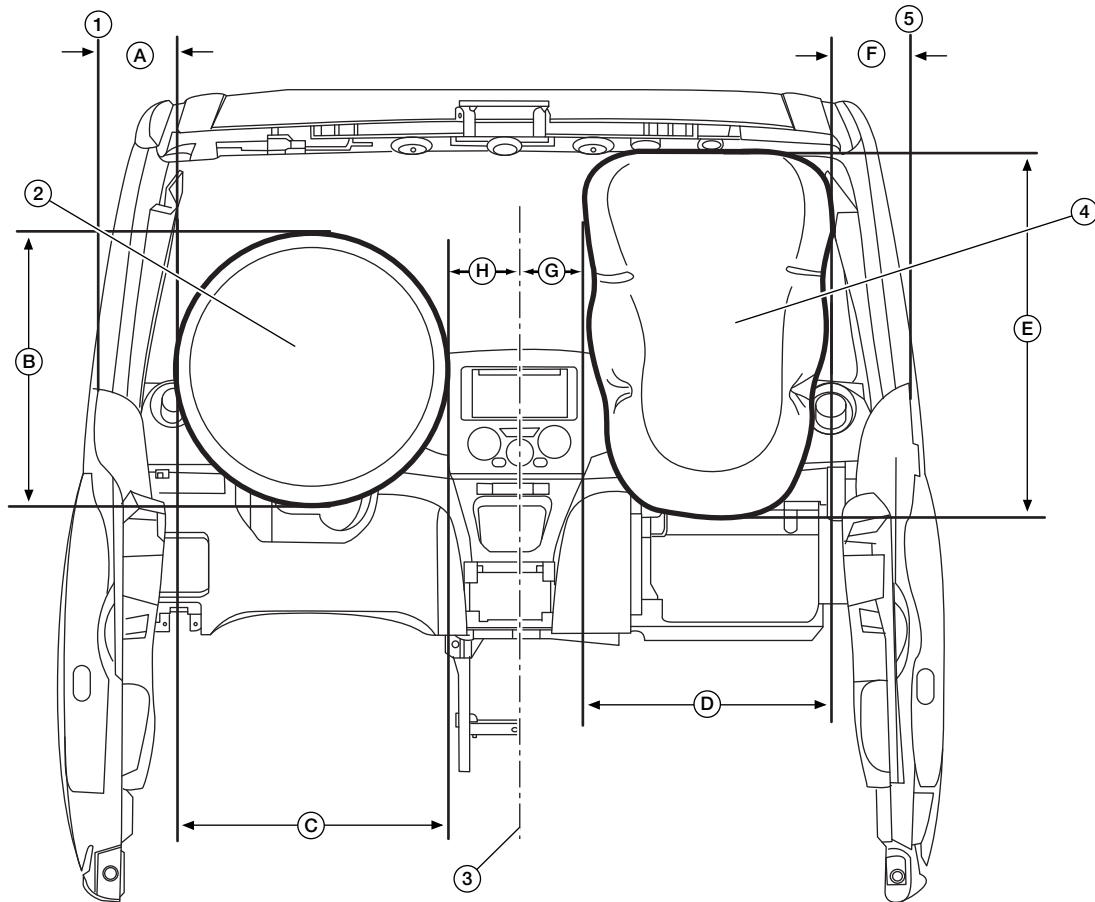


# FRONT AIR BAG DEPLOYMENT ZONES (2017 MODEL YEAR)

[SAFETY INFORMATION]

## INFLATED AIR BAG ZONE DIMENSIONS

### Driver and Passenger Air Bag Inflation Zones — Forward View



AAZIA0258ZZ

1. Reference point: door glass trim edge

4. Maximum inflated front passenger air bag

B. 535 mm (21.06 in)

E. 690 mm (27.17 in)

H. 125 mm (4.92 in)

2. Maximum inflated driver air bag

5. Reference point: door glass trim edge

C. 535 mm (21.06 in)

F. 150 mm (5.91 in) between door glass trim edge and air bag.

3. Reference point: vehicle center line

A. 150 mm (5.91 in) between door glass trim edge and air bag.

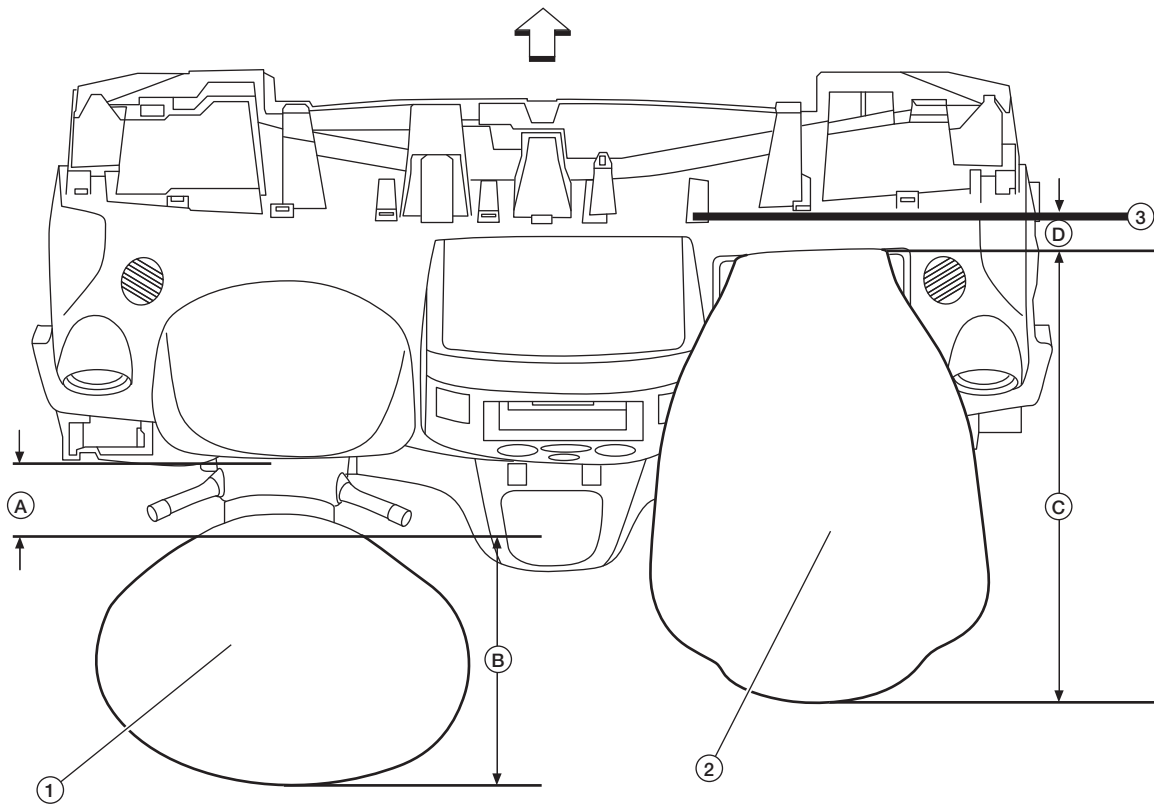
D. 475 mm (18.70 in)

G. 120 mm (4.72 in)

## FRONT AIR BAG DEPLOYMENT ZONES (2017 MODEL YEAR)

[SAFETY INFORMATION]

### Front Air Bag Inflation Zones — Overhead View



AAZIA0259ZZ

↖: Front of vehicle.

1. Maximum inflated driver air bag

A. 110 mm (4.33 in) between instrument panel and air bag.

D. 40 mm (1.57 in)

2. Maximum inflated front passenger air bag

B. 340 mm (13.39 in)

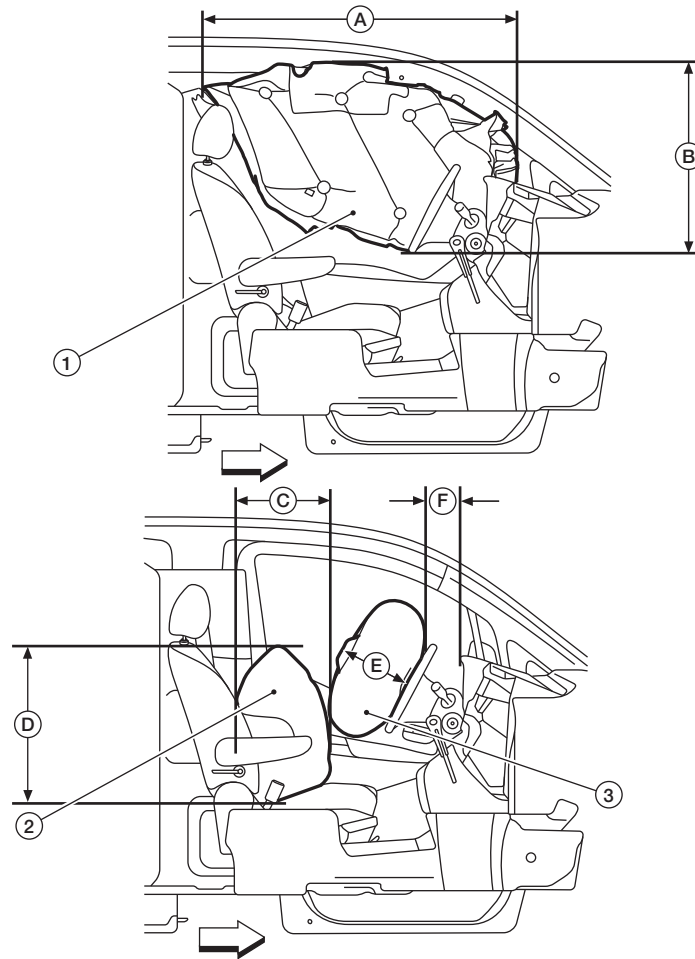
3. Reference point: instrument panel seam

C. 645 mm (25.39 in)

## FRONT AIR BAG DEPLOYMENT ZONES (2017 MODEL YEAR)

[SAFETY INFORMATION]

### Front Air Bag Inflation Zones — Driver Side View



AAZIA0414GB

↔: Front of vehicle.

1. Maximum inflated side curtain air bag

4. Maximum inflated side air bag

C. 645 mm (25.39 in)

2. Front edge of front passenger air bag module

A. 1,062 mm (41.81 in)

D. 550 mm (21.65 in)

3. Maximum inflated front passenger air bag

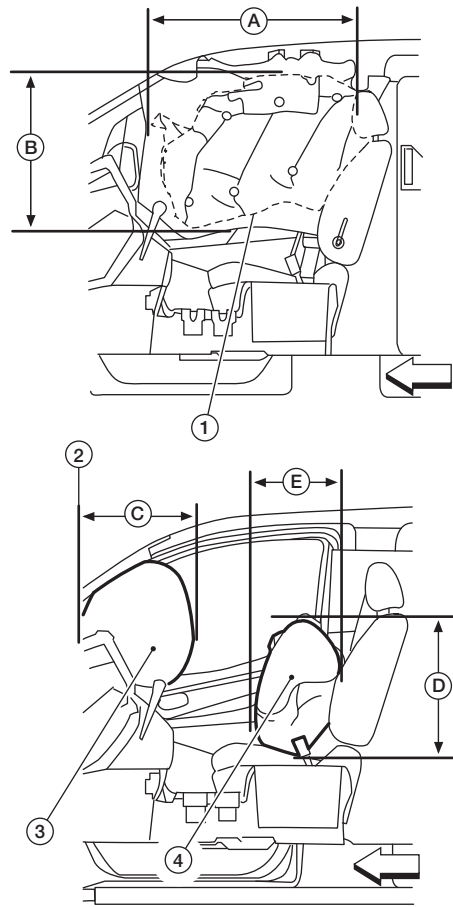
B. 699 mm (27.52 in)

E. 350 mm (13.78 in)

## FRONT AIR BAG DEPLOYMENT ZONES (2017 MODEL YEAR)

[SAFETY INFORMATION]

### Front Air Bag Inflation Zones — Passenger Side View



AAZIA0413GB

↖: Front of vehicle.

1. Maximum inflated side curtain air bag

A. 1,062 mm (41.81 in)

D. 550 mm (21.65 in)

2. Maximum inflated side air bag

B. 699 mm (27.52 in)

E. 200 mm (7.87 in)

3. Maximum inflated driver air bag

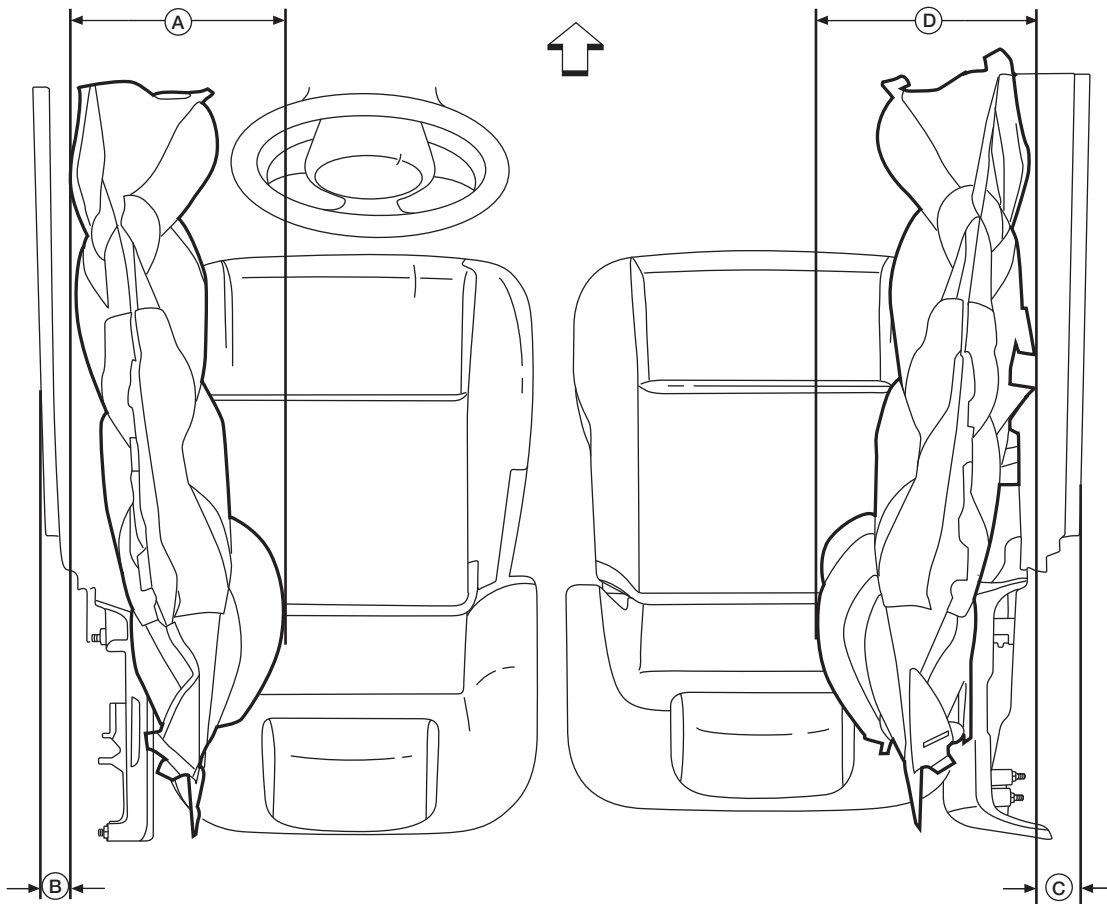
C. 350 mm (13.78 in )

F. 110 mm (4.33 in) between instrument panel and air bag.

## FRONT AIR BAG DEPLOYMENT ZONES (2017 MODEL YEAR)

[SAFETY INFORMATION]

### Side Curtain Air Bag Inflation Zones — Overhead View



AAZIA0415GB

↖: Front of vehicle.

A. 219 mm (8.62 in)

B. 71.6 mm (2.82 in) between door glass trim edge and air bag.

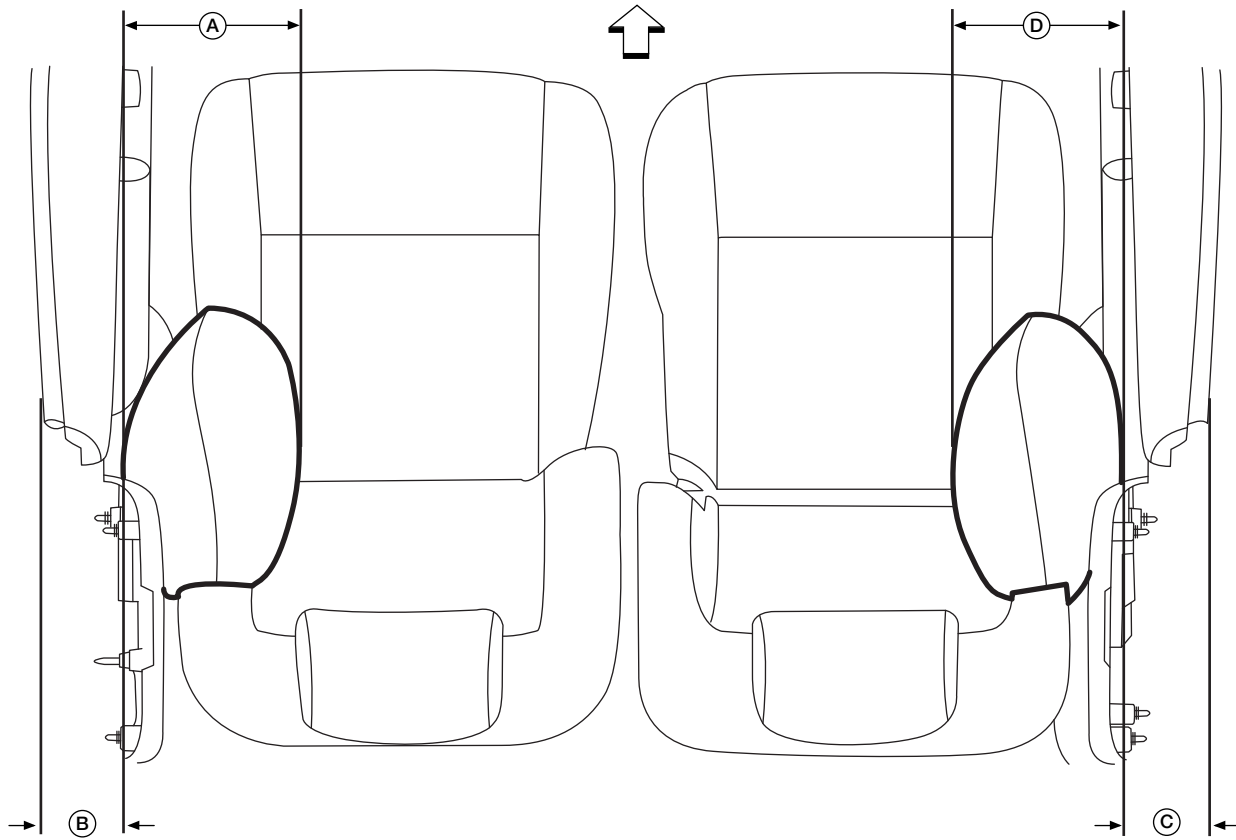
C. 71.6 mm (2.82 in) between door glass trim edge and air bag.

D. 219 mm (8.62 in)

## FRONT AIR BAG DEPLOYMENT ZONES (2017 MODEL YEAR)

[SAFETY INFORMATION]

### Side Air Bag Inflation Zones — Overhead View



AAZIA0261ZZ

↖: Front of vehicle.

A. 200 mm (7.87 in)

B. 115 mm (4.53 in) between  
door glass trim edge and air  
bag.

C. 115 mm (4.53 in) between  
door glass trim edge and air  
bag.

D. 200 mm (7.87 in)

## FRONT AIR BAG DEPLOYMENT ZONES (2018–2020 MODEL YEARS)

### FRONT AIR BAG MODULE LOCATIONS



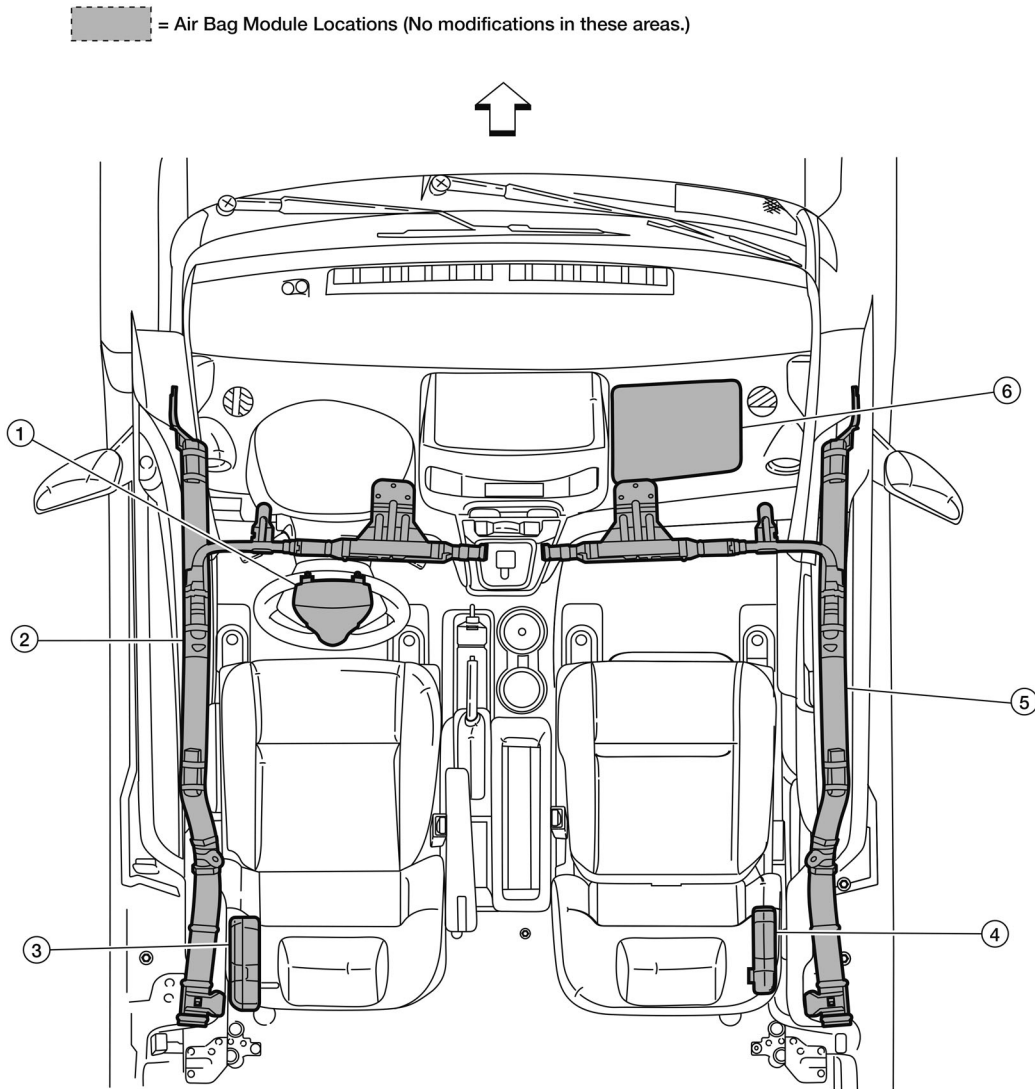
#### **WARNING:**

Modifications must not interfere with air bag modules or deployment zones. Damage to air bag modules may cause serious personal injury or death. Objects placed within air bag deployment zones may cause serious personal injury or death.

#### **NOTE:**

Do not add accessory items that, when installed, will interfere with the installed position of the air bag or the zones of the deploying air bags.

## Front Air Bag Modules — Overhead View



AAZIA0335GB

↖: Front of vehicle.

1. Driver air bag module

2. Side curtain air bag module, driver

3. Side air bag module, driver

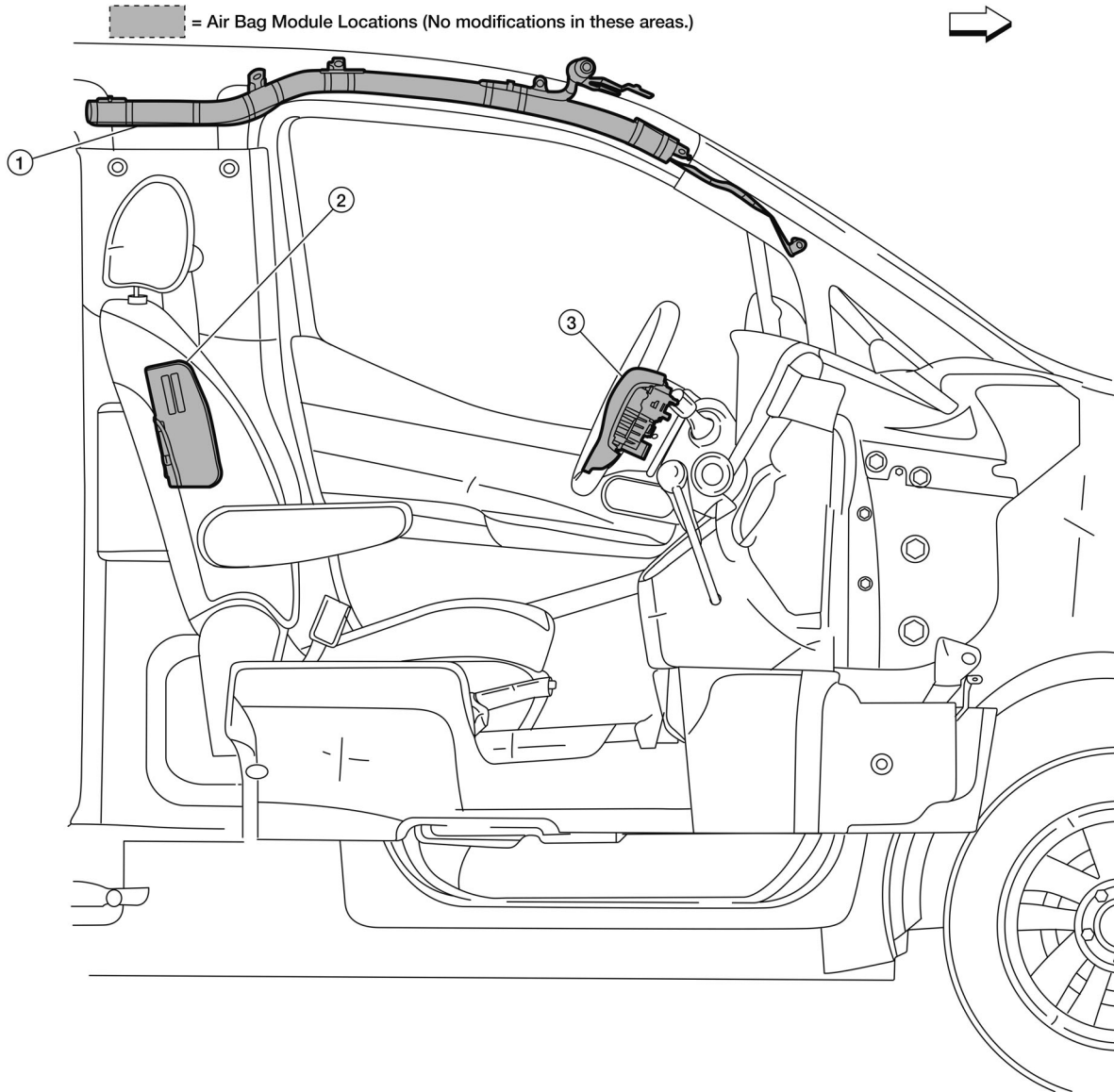
4. Side air bag module, passenger

5. Side curtain air bag module, passenger

6. Front passenger air bag module



## Front Air Bag Modules — Driver Side



AAZIA0336GB

↖: Front of vehicle.

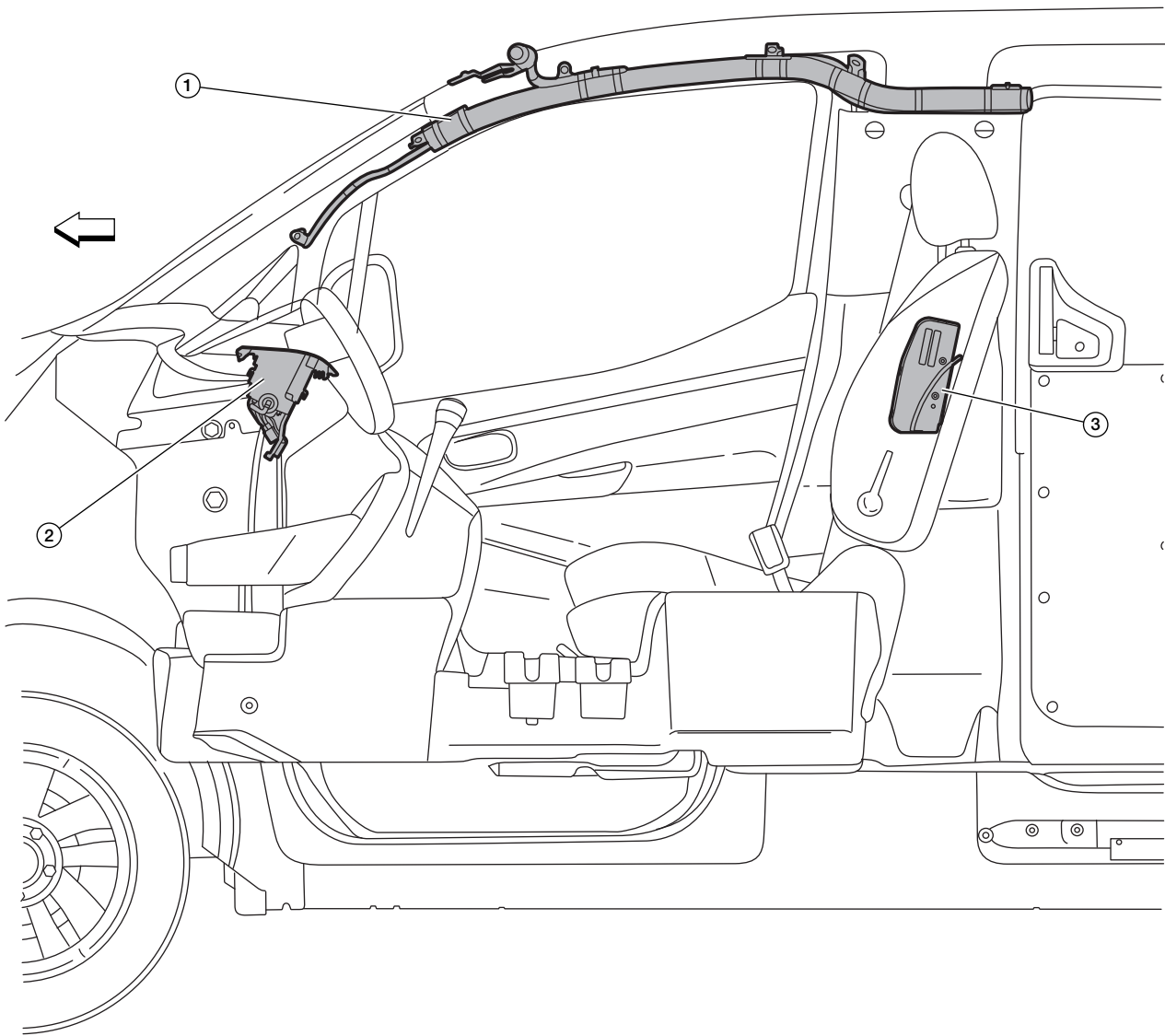
1. Side curtain air bag module (located behind LH side of headlining and across windshield header)

2. Side air bag module (located at outboard side of driver seat-back)

3. Driver air bag module (located in steering wheel)

### Front Air Bag Modules — Passenger Side

 = Air Bag Module Locations (No modifications in these areas.)



AAZIA0337GB

: Front of vehicle.

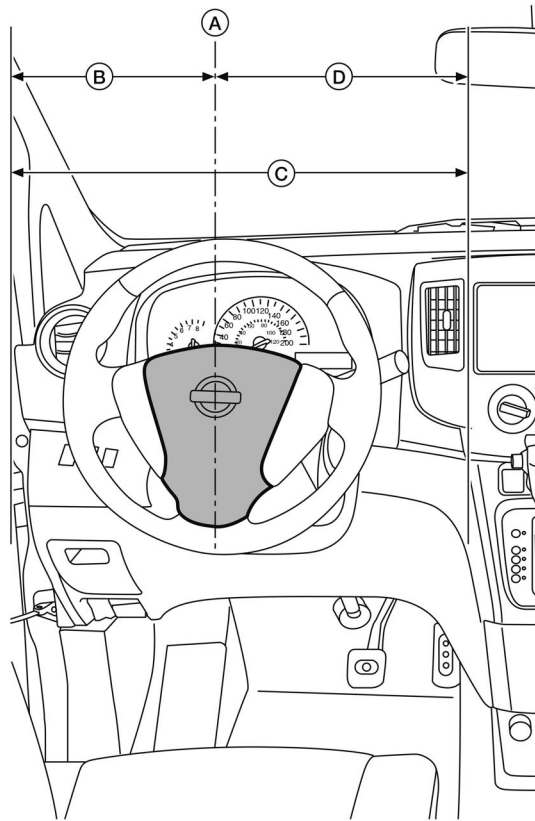
1. Side curtain air bag module (located behind RH side of headlining and across windshield header)

2. Front passenger air bag module (located in RH side of instrument panel)

3. Side air bag module (located at outboard side of passenger seatback)

### Driver Air Bag Deployment Width

 = Driver Air Bag Module



TGAAZIA0022GB


A. Center of the driver air bag module housing

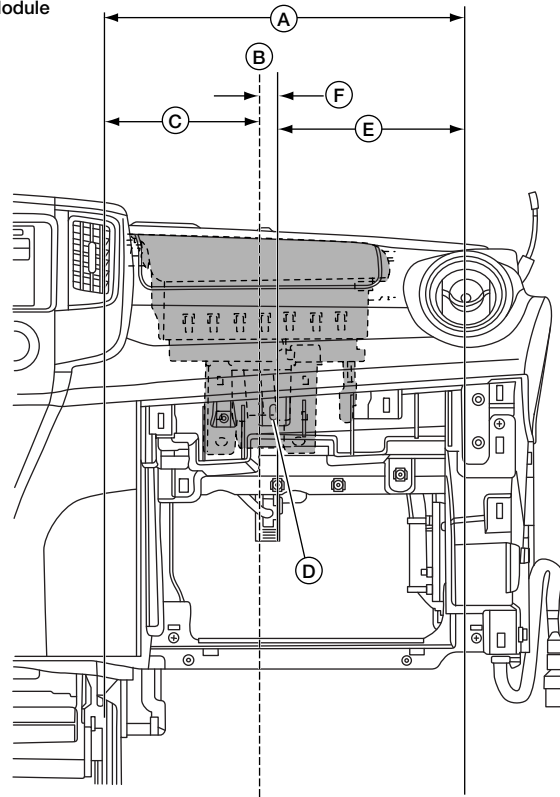
B. 267.5 mm (10.53 in)

C. Maximum lateral projection of the deployed driver air bag 535 mm (21.06 in)

D. 267.5 mm (10.53 in)

### Front Passenger Air Bag Deployment Width

 = Front Passenger Air Bag Module



AAZIA0344GB

A. Maximum lateral projection of the deployed front passenger air bag 475 mm (18.7 in)

B. Center of front passenger air bag module housing

C. 237.5 mm (9.35 in)

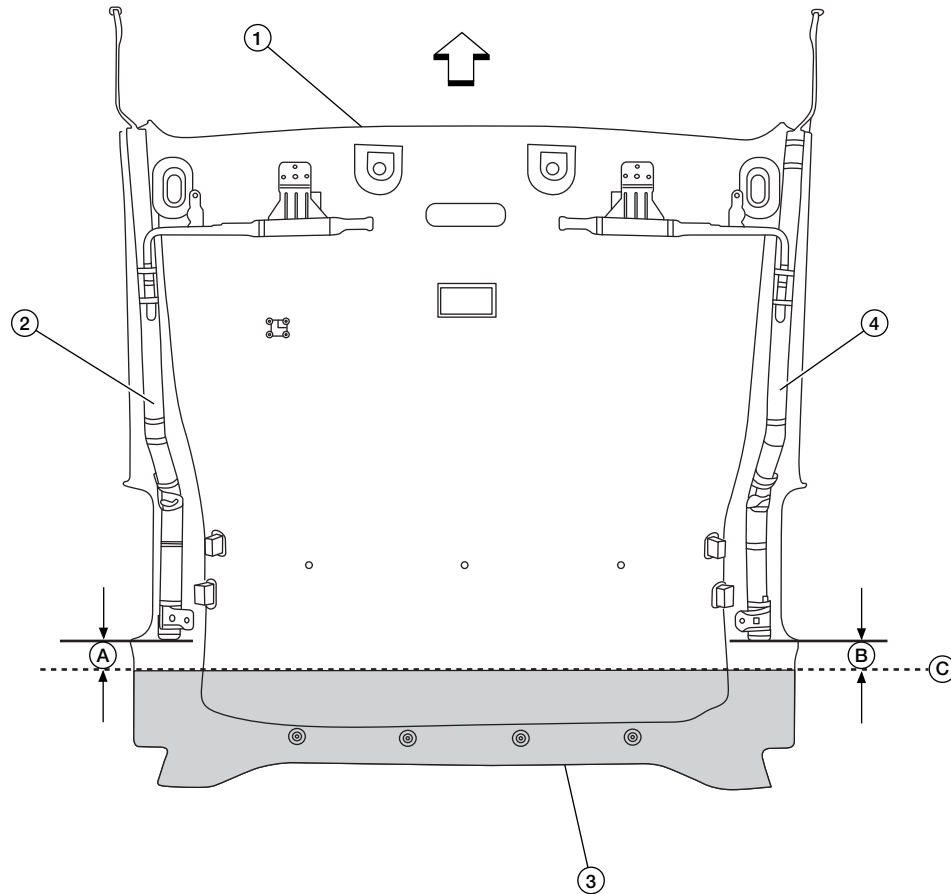
D. Reference point: glove box striker inboard fastener

E. 199 mm (7.83 in)

F. 38.5 mm (1.52 in)

### HEADLINING CUT — FRONT SIDE CURTAIN AIR BAGS CLEARANCE FOR BULKHEAD INSTALLATION

Overhead cutaway view with roof panel removed.



AAZIA0307ZZ

↖: Front of vehicle.

1. Headlining

2. Driver side curtain air bag module

3. Portion of headlining to be cut off and discarded

4. Passenger side curtain air bag module

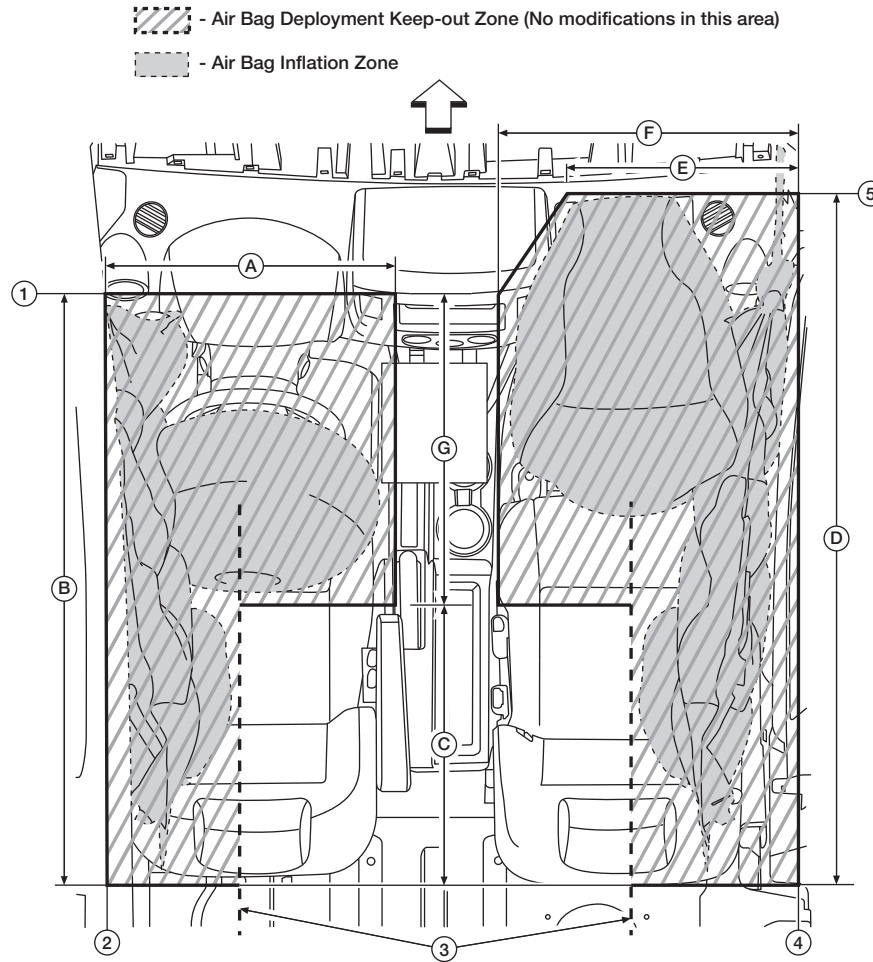
A. 50 mm (1.97 in)

B. 50 mm (1.97 in)

C. Headlining cut line (50 mm [1.97 in] behind rear edge of side curtain air bag module's rolled material)

## AIR BAG DEPLOYMENT KEEP-OUT ZONES

### Front Air Bag Keep-Out Zones — Overhead View



AAZIA0735ZZ

↖: Front of vehicle.

\* Center of seat

1. Reference point: instrument panel edge

4. Reference point: door glass trim edge

B. 1,050 mm (41.34 in)

E. 580 mm (22.83 in)

2. Reference point: door glass trim edge

5. Reference point: instrument panel seam

C. 500 mm (19.69 in)

F. 732.1 mm (28.82 in)

3. Reference point: seat center lines

A. 735 mm (28.94 in)

D. 1,415 mm (55.71 in)

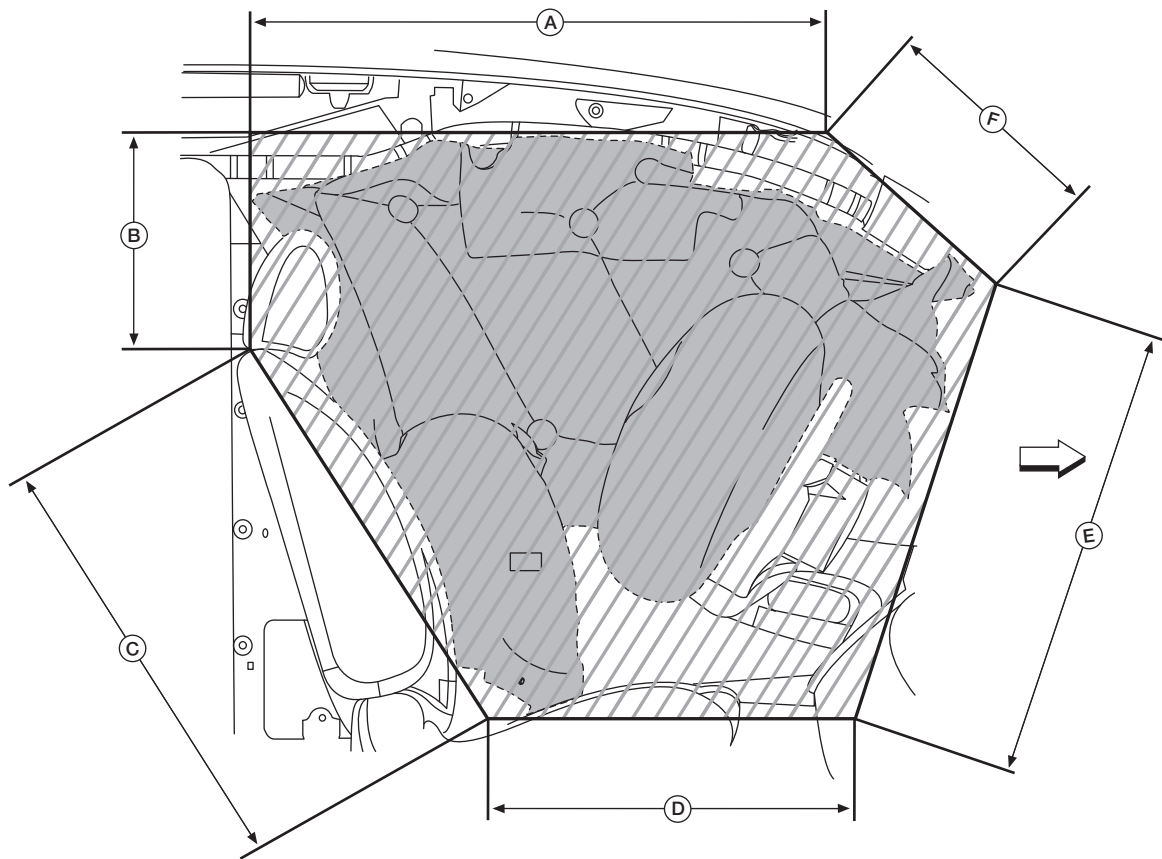
G. 651 mm (25.63 in)

# FRONT AIR BAG DEPLOYMENT ZONES (2018–2020 MODEL YEARS)

[SAFETY INFORMATION]

## Front Air Bag Keep-Out Zone — Driver Side View

-  = Air Bag Deployment Keep-out Zone (No modifications in this area.)  
 = Air Bag Inflation Zone



AAZIA0411GB

↖: Front of vehicle.

A. 635 mm (25 in)

B. 510 mm (20.08 in)

C. 685 mm (26.97 in)

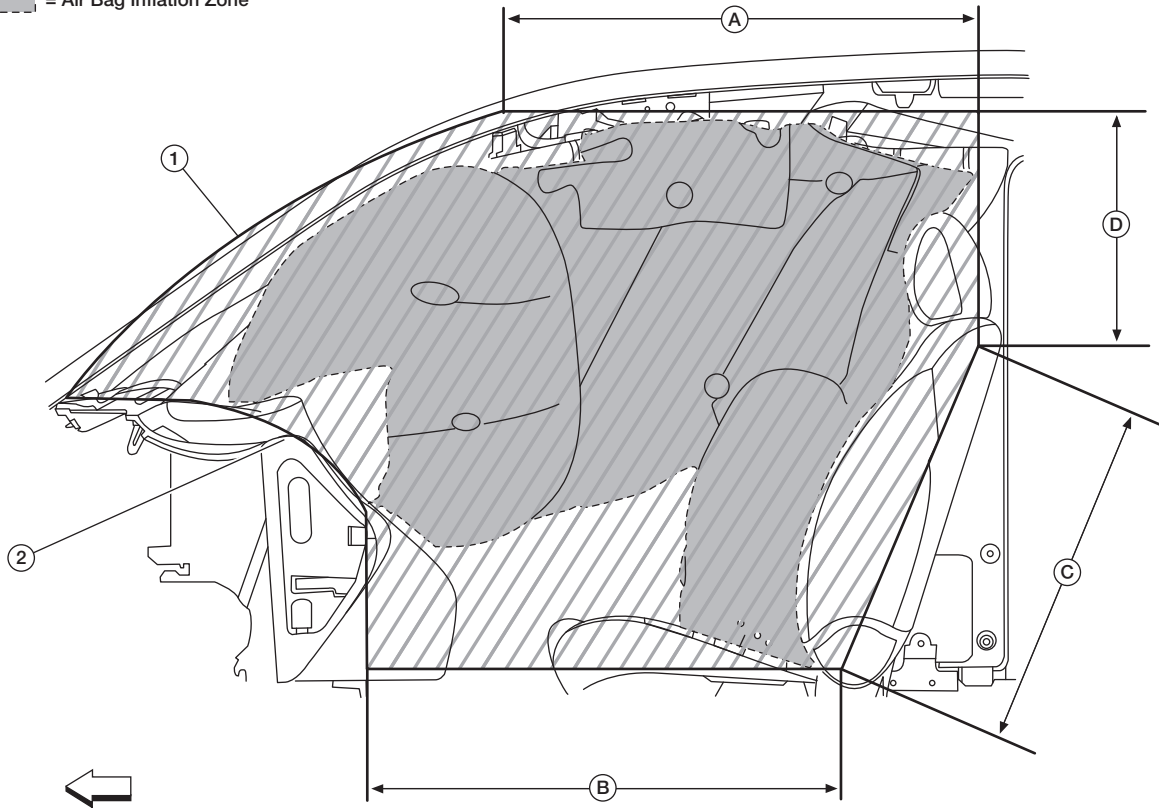
D. 405 mm (15.94 in)

E. 915 mm (36.02 in)

F. 355 mm (13.98 in)

### Front Air Bag Keep-Out Zone — Passenger Side View

-  = Air Bag Deployment Keep-out Zone (No modifications in this area.)  
 = Air Bag Inflation Zone



AAZIA0412GB

↖: Front of vehicle.

1. Reference point: zone follows windshield surface

2. Reference point: zone follows instrument panel surface contour

A. 635 mm (25.00 in)

B. 405 mm (15.94 in)

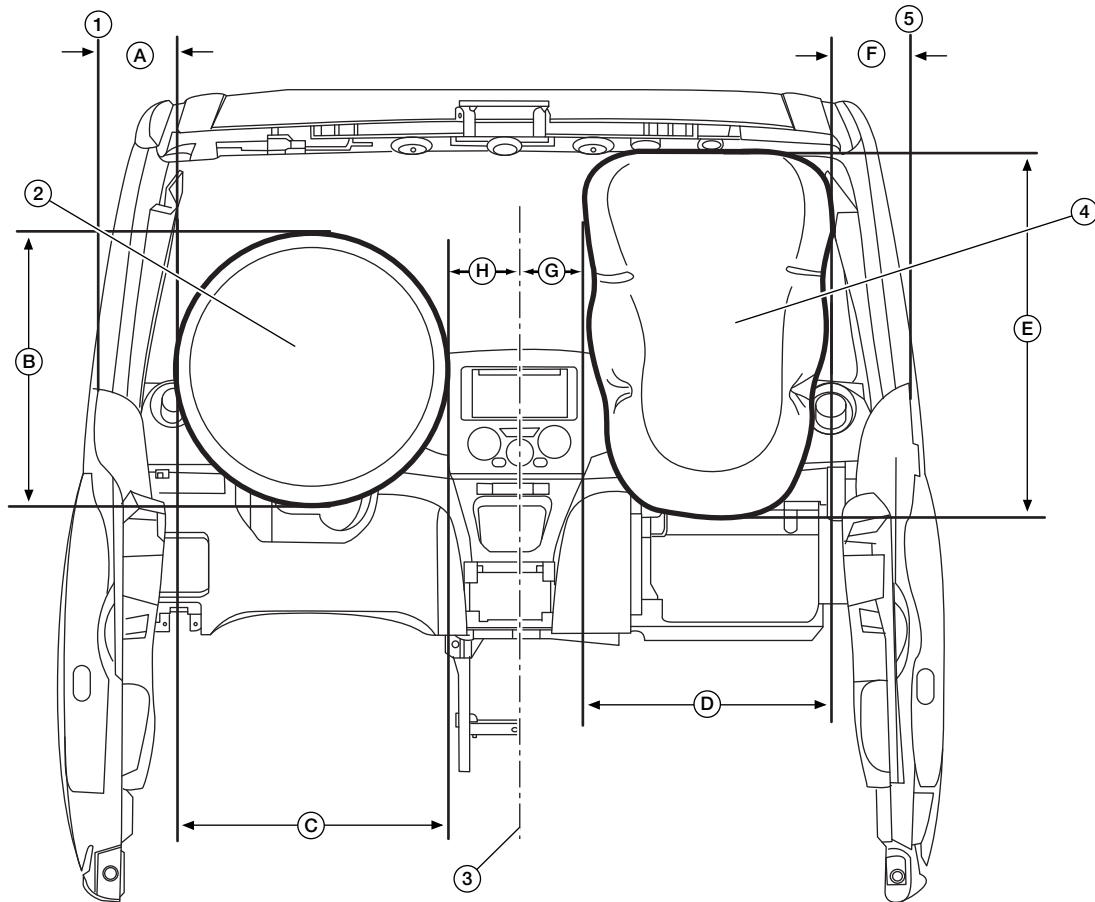
C. 685 mm (26.97 in)

D. 510 mm (20.08 in)



### INFLATED AIR BAG ZONE DIMENSIONS

#### Driver and Passenger Air Bag Inflation Zones — Forward View



AAZIA0258ZZ

1. Reference point: door glass trim edge

4. Maximum inflated front passenger air bag

B. 607 mm (23.89 in)

E. 690 mm (27.17 in)

H. 125 mm (4.92 in)

2. Maximum inflated driver air bag

5. Reference point: door glass trim edge

C. 607 mm (23.89 in)

F. 150 mm (5.91 in) between door glass trim edge and air bag.

3. Reference point: vehicle center line

A. 150 mm (5.91 in) between door glass trim edge and air bag.

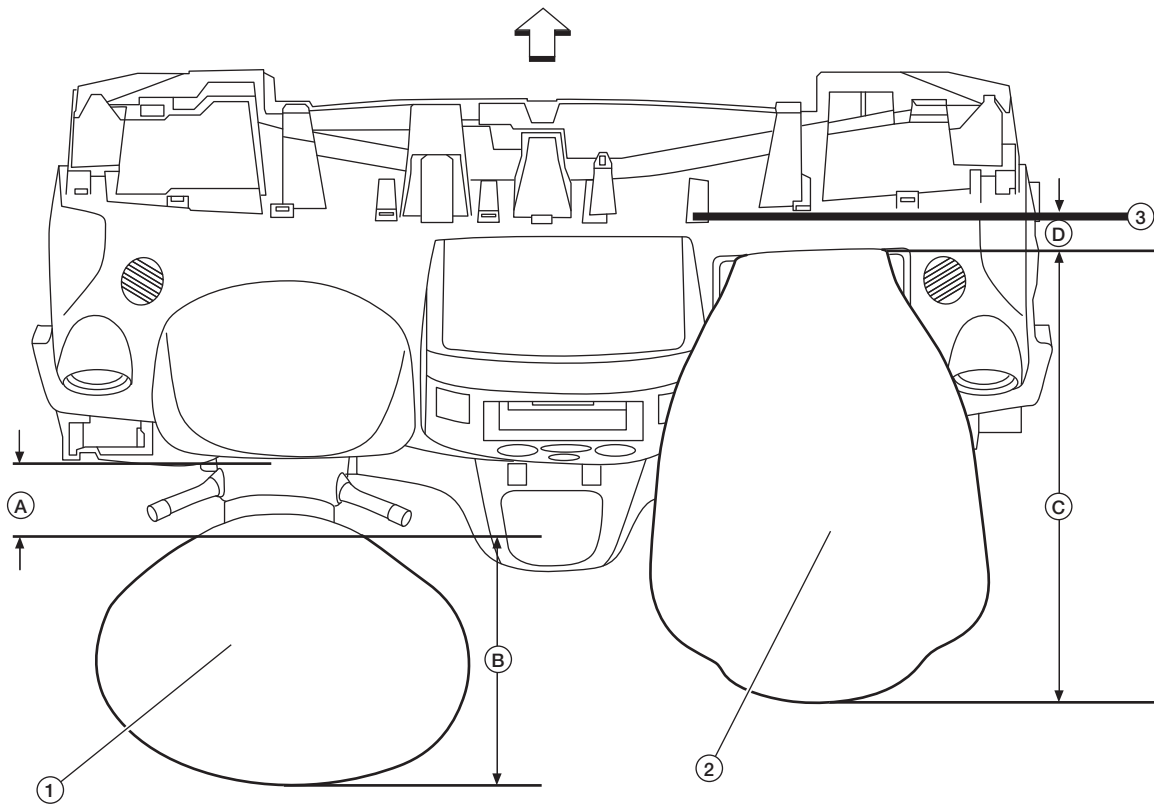
D. 475 mm (18.70 in)

G. 120 mm (4.72 in)

## FRONT AIR BAG DEPLOYMENT ZONES (2018–2020 MODEL YEARS)

[SAFETY INFORMATION]

### Front Air Bag Inflation Zones — Overhead View



AAZIA0259ZZ

↖: Front of vehicle.

1. Maximum inflated driver air bag

A. 110 mm (4.33 in) between instrument panel and air bag.

D. 40 mm (1.57 in)

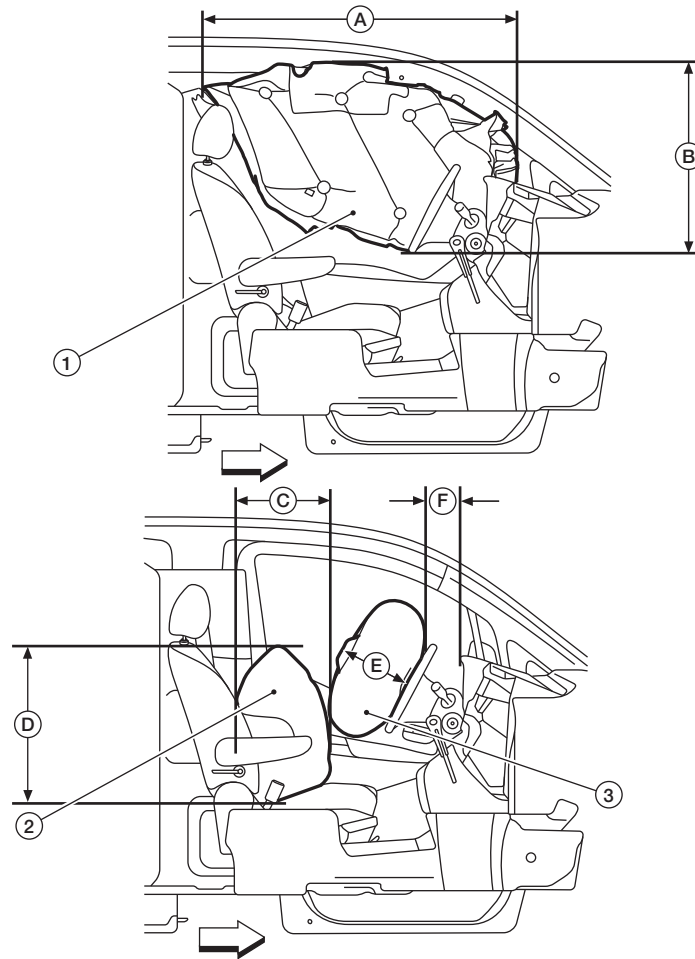
2. Maximum inflated front passenger air bag

B. 393 mm (15.47 in)

3. Reference point: instrument panel seam

C. 645 mm (25.39 in)

## Front Air Bag Inflation Zones — Driver Side View



AAZIA0414GB

↖: Front of vehicle.

1. Maximum inflated side curtain air bag

A. 1,062 mm (41.81 in)

D. 550 mm (21.65 in)

2. Maximum inflated side air bag

B. 699 mm (27.52 in)

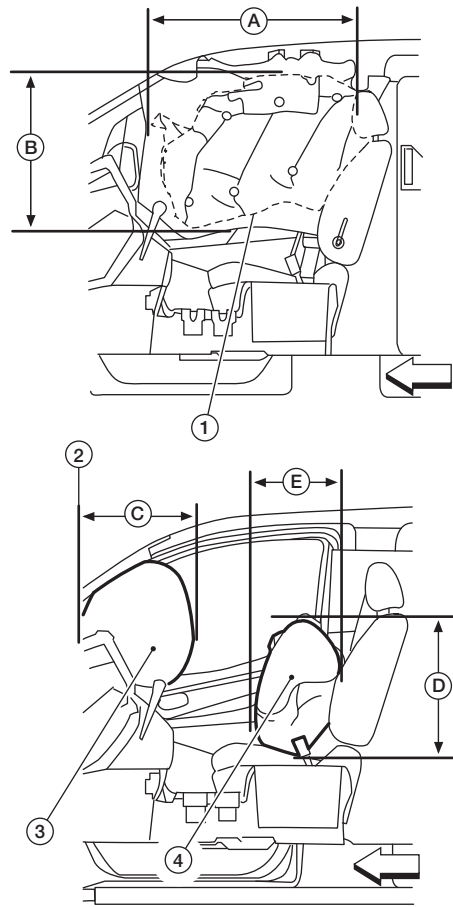
E. 200 mm (7.87 in)

3. Maximum inflated driver air bag

C. 350 mm (13.78 in )

F. 110 mm (4.33 in) between instrument panel and air bag.

### Front Air Bag Inflation Zones — Passenger Side View



AAZIA0413GB

➡: Front of vehicle.

1. Maximum inflated side curtain air bag

4. Maximum inflated side air bag

C. 645 mm (25.39 in)

2. Front edge of front passenger air bag module

A. 1,062 mm (41.81 in)

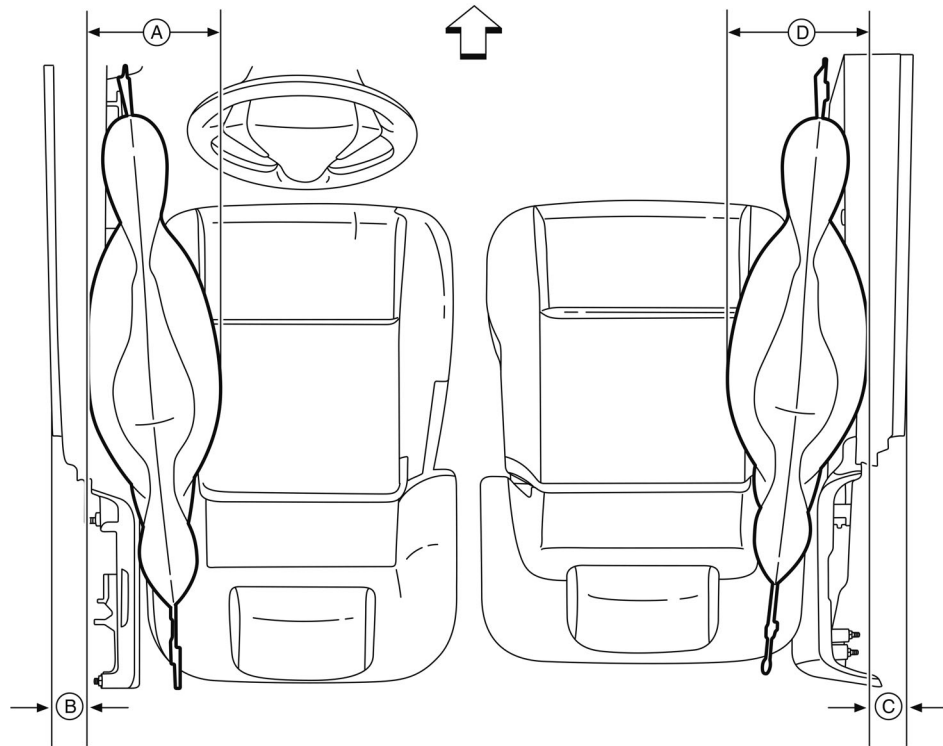
D. 550 mm (21.65 in)

3. Maximum inflated front passenger air bag

B. 699 mm (27.52 in)

E. 284 mm (11.18 in)

## Side Curtain Air Bag Inflation Zones — Overhead View



AAZIA0415GB

↖: Front of vehicle.

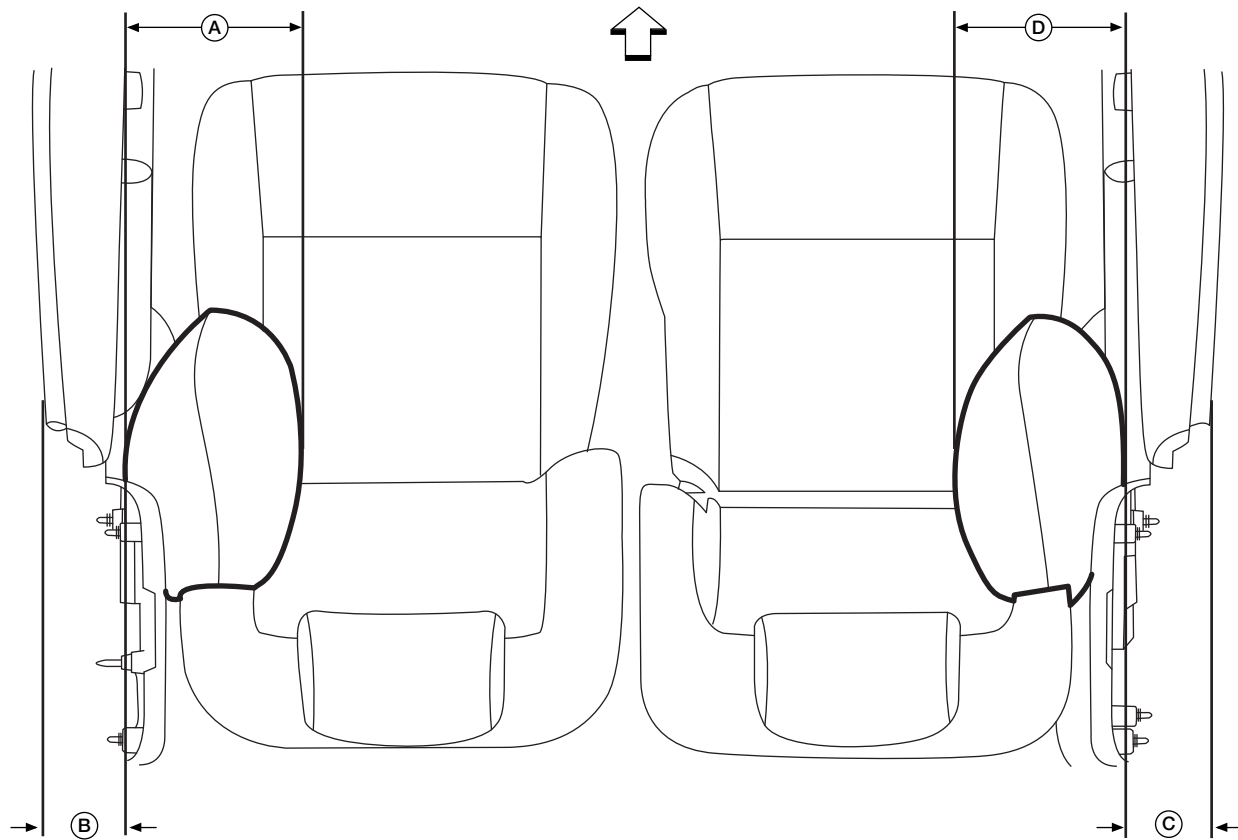
A. 219 mm (8.62 in)

B. 71.6 mm (2.82 in) between door glass trim edge and air bag.

C. 71.6 mm (2.82 in) between door glass trim edge and air bag.

D. 219 mm (8.62 in)

## Side Air Bag Inflation Zones — Overhead View



AAZIA0261ZZ

↖: Front of vehicle.

A. 200 mm (7.87 in)

B. 115 mm (4.53 in) between door glass trim edge and air bag.

C. 115 mm (4.53 in) between door glass trim edge and air bag.

D. 200 mm (7.87 in)

## ALTERED VEHICLES

### Safety / Emissions

#### Certification Labels for Altered Vehicles

##### USA:

A person or company who alters a previously certified vehicle before the first purchase by the final customer in such a manner that its stated weight ratings are revised, is required by Federal Regulation (49 CFR Part 567.7) to affix an Altered Vehicle Certification Label in addition to the FMVSS and CMVSS Certification Label. The label must be affixed to the vehicle in the manner and form described in 49 CFR Part 567.4:

- The label shall, unless riveted, be permanently affixed in such a manner that it cannot be removed without destroying or defacing it.
- The label shall be affixed to either the hinge pillar, B-pillar, or the door edge that meets the door-latch post next to the driver's seating position or, if none of these locations is practicable, to the left side of the instrument panel (other permissible locations are also specified in 49 CFR Part 567.4).
- The lettering on the label shall be of a color that contrasts with the background of the label.
- The label shall contain the required statements in the English language and lettered in block capitals and numerals not less than three thirty-seconds of an inch high.
- The lettering shall be permanent. If typed or written, a protective clear cover may be necessary to prevent information from being wiped off.
- Label must not cover or obscure the FMVSS or CMVSS Certification Label.

##### NOTE:

**The National Highway Traffic Safety Administration (NHTSA) requires that any automobile dealer that installs accessories on a vehicle prior to first retail sale must install a special label ("reduced capacity label") on that vehicle if the total weight of all accessories on that vehicle exceed 1.5 percent of the vehicle's gross vehicle weight rating (GVWR) or 100 lbs., whichever is less. This includes accessories that the dealer puts on (OE and after market), AND accessories installed at the Vehicle Processing Center (VPC).**

**If the yellow "reduced capacity label" label is applied near the tire and loading information on the driver's side B pillar, the load carrying capacity shown on the yellow label supersedes previous load information.**

##### Canada:

"Alterers" of motor vehicles are required to affix a permanent label on vehicles that they manufacture bearing a statement of compliance as provided by Section 9 of the Canadian Motor Vehicle Safety Regulations. The vehicle alterer should affix a corporate label containing information shown on this page.

- Insert the name of the company that altered the vehicle.
- Insert the month and year during which the alteration of the vehicle was completed.
- Insert a drawing of the National Safety Mark which includes their unique manufacturer number.
- Insert revised GVWR or PNBV capacities in kilograms of the vehicle as altered, where they differ from those shown on the original certification label.
- Insert the GAWR/PNBEs of the vehicle as altered, where they differ from those shown on the original certification label. Also, include the tire size, rim size and tire inflation pressure.
- Insert the vehicle type stated on the safety standard certification label provided by Nissan. The type of vehicle, in both official languages, or the word "TYPE" along with one of the following abbreviations, namely:
  - "AT/PA" to refer to an auto transporter,
  - "ATV/VTT" to refer to an all-terrain vehicle,

- "B/A" to refer to a bus,
- "BT/RA" to refer to a bus trailer,
- "CD/CCC" to refer to a C-dolly,
- "CMC/MCC" to refer to a competition motorcycle,
- "LDD/CRC" to refer to a load divider dolly,
- "MH/AC" to refer to a motor home,
- "MC" to refer to a motorcycle,
- "MPV/VTUM" to refer to a multi-purpose passenger vehicle,
- "RUM/MUR" to refer to a restricted-use motorcycle,
- "SB/AS" to refer to a school bus,
- "TRA/REM" to refer to a trailer,
- "TCD/CDC" to refer to a trailer converter dolly,
- "TRU/CAM" to refer to a truck, and
- "TT/CT" to refer to a truck tractor.

The label must meet the following requirements as described in Section 9:

- Shall be permanently attached.
- Shall be affixed adjacent to the original compliance label required by Section 6.
- The lettering of the label shall be clear, indelible, indented, or embossed, or of a color that contrasts with the background color of the label, and in block capitals and numerals not less than 2.0 mm (0.1 in) high.
- The label shall be permanently affixed to the same surface as that to which the FMVSS or CMVSS label is affixed.



## BRAKE COMPLIANCE GUIDELINES

### Brake Compliance Guidelines (FMVSS and CMVSS 135)

The calculations and abbreviated definitions necessary for the Center of Gravity (CG) measurements are included in this manual.

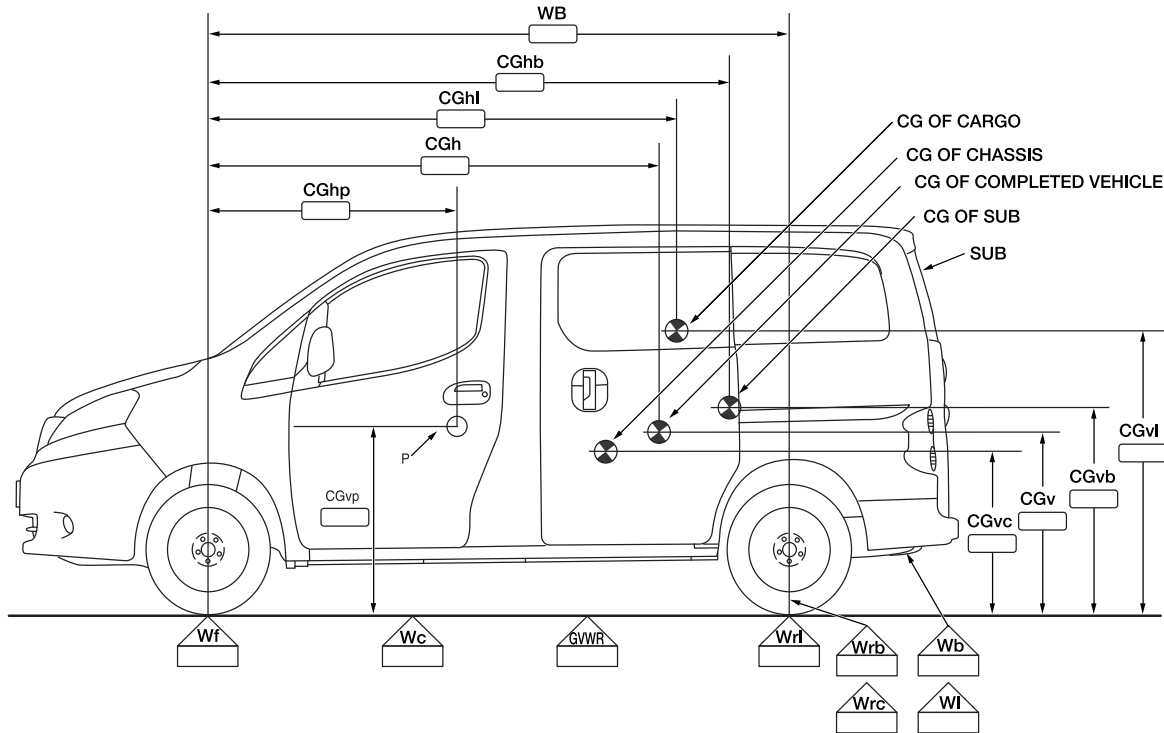
Any changes to the vehicle must still comply with FMVSS and CMVSS 135 allowing for the following provisions:

- No alterations, modifications or replacements are made to the following systems:
  - parking brake
  - anti-lock brakes
  - engine vacuum
  - steering
  - wheels or tires
  - brakes
  - indicator lamps and wiring
  - brake system reservoir labeling
  - suspension ride height or spring rate
- The vehicle is re-balanced by the addition of an equivalent weight if components are permanently removed.
- The applicable GAWRs and GVWR weights are not exceeded.
- The applicable center of gravity limitations are met using the calculation methods in [Center of Gravity \(CG\) \(pg. 70\)](#) section.
- **The vertical distance from the ground to the completed vehicle center of gravity should not exceed 915 mm (36 in) at the Gross Vehicle Weight Rating (GVWR).**

## CENTER OF GRAVITY (CG)

### Vehicle Center of Gravity Measurement Process

#### Introduction



AAZIA0312GB

#### List of Terms

Term	Definition
$CG_h$	Horizontal distance from the center line of the front wheels to the center of gravity of the completed vehicle [mm (in)].
$CG_{hl}$	Horizontal distance from the center line of the front wheels to the center of gravity of the cargo [mm (in)]. If $CG_{hl}$ is not known, it may be estimated as the distance from the center line of the front wheels to the horizontal midpoint of the cargo area.
$CG_{hb}$	Horizontal distance from the center line of the front wheels to the center of gravity of SUB and/or permanently attached equipment [mm (in)].
$CG_{hp}$	Horizontal distance from the center line of the front wheels to the center of gravity of the passenger load [mm (in)].
$CG_v$	Vertical distance from the ground to the center of gravity of the completed vehicle [mm (in)].
$CG_{vb}$	Vertical distance from the ground to the center of gravity of the SUB and/or permanently attached equipment [mm (in)].
$CG_{vc}$	Vertical distance from the ground to the center of gravity of the chassis (including cab); use 644 mm (25.3 in) in <a href="#">formulas (1) and (2) (pg. 80)</a> .
$CG_{vl}$	Vertical distance from the ground to the center of gravity of the cargo [mm (in)].

## CENTER OF GRAVITY (CG)

**[SAFETY INFORMATION]**

Term	Definition
$CG_{vp}$	Vertical distance from the ground to the center of gravity of the passenger load [mm (in)].
GVW	Actual Gross Vehicle Weight (pounds). $GVW = W_b + W_c + W_l + P$
GVWR	Gross Vehicle Weight Rating of the vehicle [kg (lbs)].
$h_f$	Vertical distance between the front wheel center to ground line.
$h_R$	Vertical distance between the rear wheel center to ground line.
P	Two passenger load 136 kg (300 lbs).
$P_f$	Passenger front load distribution [kg (lbs)]. $P_f = P - P_r$
$P_r$	Passenger rear load distribution kg (lbs). $P_r = \frac{P \times CG_{hp}}{WB}$
SUB	A Second Unit Body (SUB) consists of the body structure and/or all the cargo carrying, work performing and/or load bearing components and/or equipment installed by a subsequent stage manufacturer.
$W_b$	Weight of the SUB and/or permanently attached added equipment [kg (lbs)].
WB	Vehicle wheelbase [mm (in)].
$W_c$	Weight of the vehicle (chassis and cab with fuel tank full), including options weight [kg (lbs)].
$W_F$	Weight at the front wheels of the vehicle (chassis and cab with fuel tank full), including options weight at raised position [kg (lbs)].
$W_{FO}$	Weight at the front wheels of the vehicle (chassis and cab with fuel tank full), including options weight at horizontal position [kg (lbs)].
$W_l$	Weight of the cargo [kg (lbs)].
$W_p$	Weight of one passenger 68 kg (150 lbs)
$W_R$	Weight at the rear wheels of the vehicle (chassis and cab with fuel tank full), including options weight at raised position [kg (lbs)].
$W_{rb}$	Weight at the rear wheels of the SUB and/or permanently attached added equipment [kg (lbs)].
$W_{rl}$	Weight at the cargo on the rear wheels [kg (lbs)].
$W_{RO}$	Weight at the rear wheels of the vehicle (chassis and cab with fuel tank full), including options weight at horizontal position [kg (lbs)].

This information is being used to assist upfitters in determining the vehicle center of gravity height. This has been prepared for the use of knowledgeable test engineers. It is not a how-to document for people without technical training.

## **Recommended Procedure**

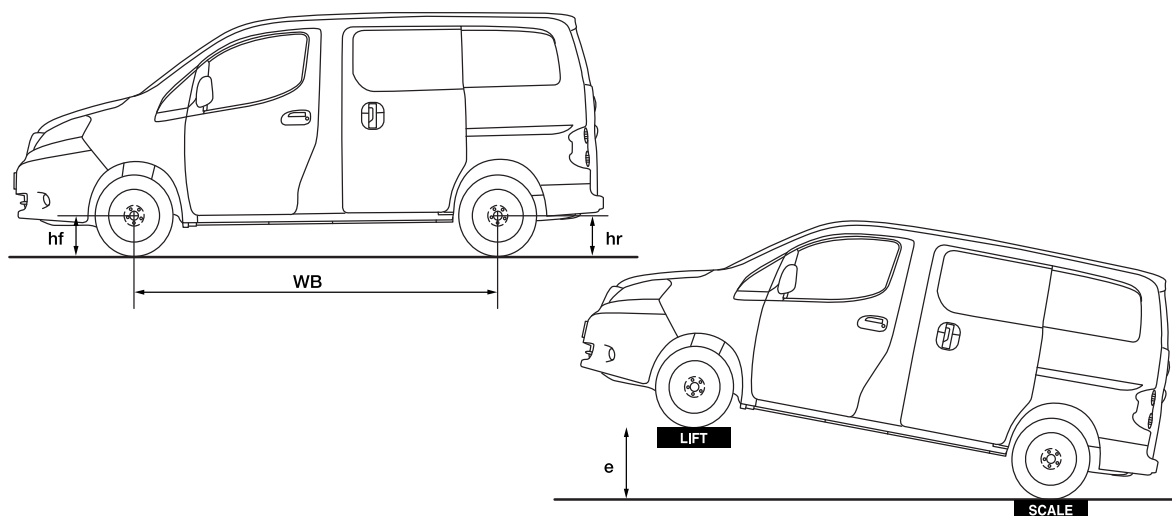
### **Setup**

The following vehicle conditions should be verified prior to the measurement:

- Vehicle Mass: Unloaded Vehicle Condition — Full fluids, spare tire, jack and tire tool.
- Vehicle Posture: Unloaded Vehicle Condition — Adjust fender opening height to the design value.
- Tire: Production parts shall be used. Tire pressure should be set to the specified pressure on the Tire Placard (located near the front LH door striker) once the vehicle has cooled.
- Steering Wheel: Set to center of stroke with wheels pointing forward.
- Seats: Adjust to reference position:
  - Longitudinal slide: Center of slide
  - Seat Lifter: Lowermost
  - Back angle: Set to normal driving condition or as close to 21° as possible.
- Window Glass: Fully closed.
- Other Parts: Production parts shall be used.
- Road Surface to be used: Flat load cell.
- Measurement Needed: Wheelbase, height of wheel centers from ground, lift heights, axle loads.
- Shift Position: Neutral for both AT and MT vehicles. For safety, apply the parking brake.

### **Measurement Methods**

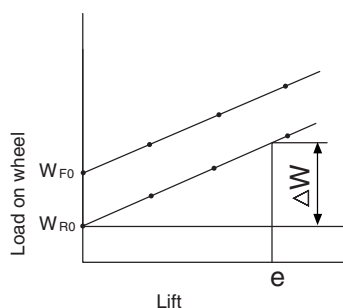
1. The vehicle should be at its unloaded vehicle condition, with full fluids and equipped with spare tire, jack and tools.
2. Measure the wheelbase of the vehicle (WB) on the left-hand and right-hand sides of the vehicle and use the average value for the calculations. Measure the height of the 4 wheel centers from the ground to get  $h_f$  and  $h_r$ .
3. Replace the shock absorbers with turnbuckles or solid link to avoid suspension travel.
4. Increase the tire air pressure to the maximum recommended level specified in tire placard or Owner's Manual.
5. Once the vehicle is on the scale, set the parking brake to prevent vehicle from rolling.
6. Measure the rear wheel load ( $W_{RO}$ ) in horizontal position.
7. Raise the front of the vehicle with a hoist. Lift height should be at 0.5 m (1.6 ft) to start, with additional lift heights used to improve accuracy. (i.e., 0.5 m (1.6 ft) + a, 0.5 m (1.6 ft) + B).
8. Measure the rear wheel load ( $W_R$ ) with raised vehicle.
9. Change the lift height and measure the load on the rear wheel to find the relationship between lift and load. Measure two times for each lift height.
10. Follow the same procedure from (7) to (9) by raising the rear wheels.



AAZIA0375GB

### Analysis Method

1. Plot the relation between the lift height (E) and the load on rear wheels ( $W_{RO}$ ) for raising the front wheels and the relation between the lift (E) and the load on the front wheels ( $W_{FO}$ ) for raising the rear wheels. Draw a regression line for both cases with front or rear wheels raised.
2. Obtain the shifted load ( $\Delta W_{RO}$  and  $\Delta W_{FO}$ ) for the lift (E) according to the graph.  $\Delta W_{RO}$  and  $\Delta W_{FO}$  with  $E = 0.5 \text{ m (1.6 ft.)}$  shall be representative value.
3. Calculate the CG height by using the following equations:



Front wheels raised

$$CG_v = \frac{\Delta W}{W} WB \frac{\sqrt{WB^2 - e^2}}{e} + hf + \frac{W_{RO}}{W} (hr - hf)$$

Rear wheels raised

$$CG_v = \frac{\Delta W}{W} WB \frac{\sqrt{WB^2 - e^2}}{e} + hr + \frac{W_{FO}}{W} (hf - hr)$$

Where,

$CG_v$ : Height of gravity center m (ft)

$W$ : Vehicle weight ( $W = W_{FO} + W_{RO}$ ) kg (lbs)

$W_{FO}$ : Front wheel load (in horizontal position) kg (lbs)

$W_{RO}$ : Rear wheel load (in horizontal position) kg (lbs)

$e$ : Lift m (ft)

$\Delta W$ : shifted load kg (lbs)

$WB$ : Wheelbase m (ft)

$hf$ : Front wheel center height m (ft)

$hr$ : Rear wheel center height m (ft)

AAZIA0369GB

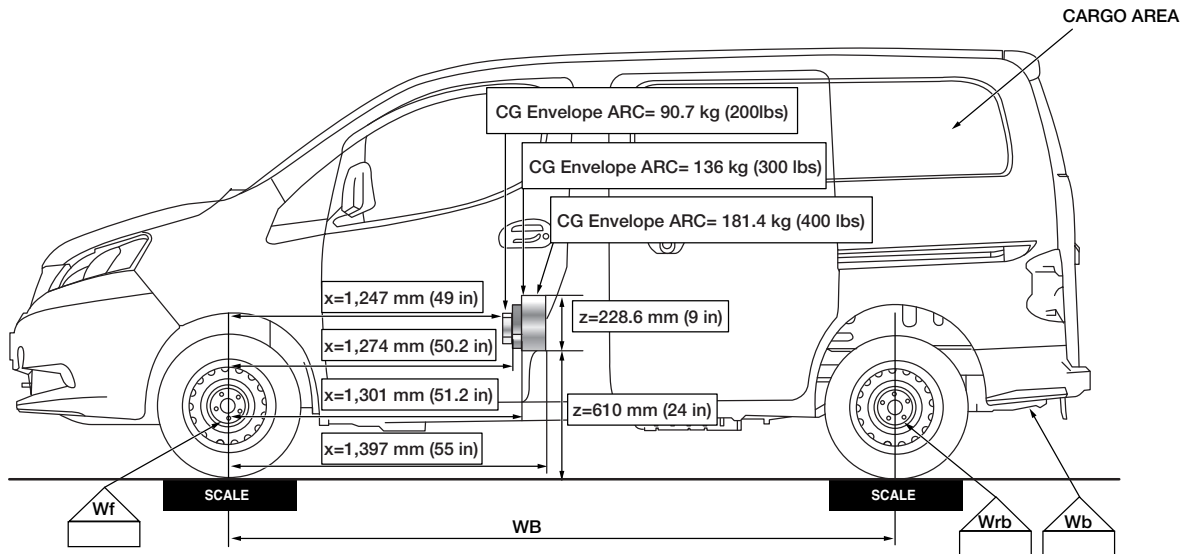
### Results

The center of gravity height ( $CG_v$ ) obtained is theoretically the same for both cases with the front or rear wheels raised. The accuracy of the results should be verified by performing several tests and averaging the results.

## Vehicle Center of Gravity Envelope — Unloaded Vehicle Weight (UVW)

The diagrams below show the vehicle center of gravity envelope. [The center of gravity (CG) envelopes are not restrictive as long as the accessory reserve capacity (ARC) weight is lower than the envelope restriction weight]

The CG zone shall not be exceeded by any upfitter package.



AAZIA0376GB

Maximum Unloaded Vehicle Weight (UUVW) Resource Chart — 2013-2014 Model Years

Model	Wheelbase mm (in)	Max GVWR Kg (lbs)	UUVW Payload Kg (lbs) *1	ARC Weight Kg (lbs) *2	Max Cargo Kg (lbs) *3	Max GAWR Kg (lbs)				Base Curb Weight Kg (lbs)		
						Front	Rear	—	Front	Rear	Total	
S	2,925 (115.2)	2,155 (4,751)	353 (778)	181.4 (400)	Refer to "Max C"	1,040 (2,293)	1,150 (2,535)	USA	900.6 (1,985)	577.1 (1,272)	1,477.7 (3,258)	
SV	2,925 (115.2)	2,155 (4,751)	336 (742)	181.4 (400)		1,040 (2,293)	1,150 (2,535)	USA	901.4 (1,987)	577.5 (1,273)	1,478.9 (3,260)	
S	2,925 (115.2)	2,155 (4,751)	370 (816)	136 (300)	Refer to "Max C"	1,040 (2,293)	1,150 (2,535)	USA	900.6 (1,985)	577.1 (1,272)	1,477.7 (3,258)	
SV	2,925 (115.2)	2,155 (4,751)	353 (779)	136 (300)		1,040 (2,293)	1,150 (2,535)	USA	901.4 (1,987)	577.5 (1,273)	1,478.9 (3,260)	

\*1: Load rating representing maximum allowable weight of people, cargo and body equipment and is reduced by optional equipment weight. [e.g. If CG for SV grade is on X = 1,303 mm; then Payload is 742 lbs considering; 2 Passenger weight 300 lbs + ARC 400 lbs + Cargo 42 lbs (If the CG is located closer to X = 1,397 mm; the Payload will increase due to mass distribution between front & rear axles).]

\*2: ARC aftermarket equipment Accessory Reserve Capacity for models with standard equipment.

\*3: When an ARC is installed, the Max Cargo capacity must be considered by the calculation for Max C.

Maximum Unloaded Vehicle Weight (UVW) Resource Chart — 2015 Model Year

Model	Wheelbase mm (in)	Max GVWR Kg (lbs)	UVW Payload Kg (lbs) *1	ARC Weight Kg (lbs) *2	Max Cargo Kg (lbs) *3	Max GAWR Kg (lbs)			Base Curb Weight Kg (lbs)		
						Front	Rear	—	Front	Rear	Total
S	2,925 (115.2)	2,155 (4,751)	387 (854)	181.4 (400)	Refer to "Max C"	1,050 (2,315)	1,150 (2,535)	USA	904.4 (1,994)	577.3 (1,273)	1,481.7 (3,267)
SV	2,925 (115.2)	2,155 (4,751)	371 (819)	181.4 (400)		1,050 (2,315)	1,150 (2,535)	USA	905.1 (1,995)	577.7 (1,274)	1,482.8 (3,269)
S	2,925 (115.2)	2,155 (4,751)	453 (999)	136 (300)	Refer to "Max C"	1,050 (2,315)	1,150 (2,535)	USA	904.4 (1,994)	577.3 (1,273)	1,481.7 (3,267)
SV	2,925 (115.2)	2,155 (4,751)	436 (962)	136 (300)		1,050 (2,315)	1,150 (2,535)	USA	905.1 (1,995)	577.7 (1,274)	1,482.8 (3,269)

\*1: Load rating representing maximum allowable weight of people, cargo and body equipment and is reduced by optional equipment weight. [e.g. If CG for SV grade is on X = 1,303 mm; then Payload is 742 lbs considering; 2 Passenger weight 300 lbs + ARC 400 lbs + Cargo 119 lbs (If the CG is located closer to X = 1,397 mm; the Payload will increase due to mass distribution between front & rear axles).]

\*2: ARC aftermarket equipment Accessory Reserve Capacity for models with standard equipment.

\*3: When an ARC is installed, the Max Cargo capacity must be considered by the calculation for Max C.



Maximum Unloaded Vehicle Weight (UVW) Resource Chart — 2016 Model Year

Model	Wheelbase mm (in)	Max UVW Kg (lbs)	Max GVWR Kg (lbs)	UVW Payload Kg (lbs) *1	Max ARC Weight Kg (lbs) *2	Max Cargo Kg (lbs) *3	Max GAWR Kg (lbs)		Base Curb Weight Kg (lbs)		
							Front	Rear	Front	Rear	Total
S	2,925 (115.2)	1,663.1 (3,667)	2,155 (4,751)	671.3 (1,480)	181.4 (400)	Refer to "Max C"	1,050 (2,315)	1,150 (2,535)	904.4 (1,994)	577.3 (1,273)	1,481.7 (3,267)
SV	2,925 (115.2)	1,663.1 (3,667)	2,155 (4,751)	657.7 (1,450)	180.5 (398)		1,050 (2,315)	1,150 (2,535)	905.1 (1,995)	577.7 (1,274)	1,482.8 (3,269)

\*1: Load rating representing maximum allowable weight of people, cargo and body equipment and is reduced by optional equipment weight. [e.g. If CG for SV grade is on X = 1,303 mm; then Payload is 742 lbs considering; 2 Passenger weight 300 lbs + ARC 400 lbs + Cargo 119 lbs (If the CG is located closer to X = 1,397 mm; the Payload will increase due to mass distribution between front & rear axles).]

\*2: ARC aftermarket equipment Accessory Reserve Capacity for models with standard equipment.

\*3: When an ARC is installed, the Max Cargo capacity must be considered by the calculation for Max C.

Maximum Unloaded Vehicle Weight (UVW) Resource Chart — 2017 Model Year

Model	Wheelbase mm (in)	Max UVW Kg (lbs)	Max GVWR Kg (lbs)	UVW Payload Kg (lbs) *1	Max ARC Weight Kg (lbs) *2	Max Cargo Kg (lbs) *3	Max GAWR Kg (lbs)		Base Curb Weight Kg (lbs)		
							Front	Rear	Front	Rear	Total
S	2,925 (115.2)	1,663.1 (3,667)	2,165 (4,773)	671.3 (1,480)	181.4 (400)	Refer to "Max C"	1,050 (2,315)	1,150 (2,535)	904.4 (1,994)	577.3 (1,273)	1,481.7 (3,267)
SV	2,925 (115.2)	1,663.1 (3,667)	2,165 (4,773)	657.7 (1,450)	180.5 (398)		1,050 (2,315)	1,150 (2,535)	905.1 (1,995)	577.7 (1,274)	1,482.8 (3,269)

\*1: Load rating representing maximum allowable weight of people, cargo and body equipment and is reduced by optional equipment weight. [e.g. If CG for SV grade is on X = 1,303 mm; then Payload is 742 lbs considering; 2 Passenger weight 300 lbs + ARC 400 lbs + Cargo 119 lbs (If the CG is located closer to X = 1,397 mm; the Payload will increase due to mass distribution between front & rear axles).]

\*2: ARC aftermarket equipment Accessory Reserve Capacity for models with standard equipment.

\*3: When an ARC is installed, the Max Cargo capacity must be considered by the calculation for Max C.

Maximum Unloaded Vehicle Weight (UVW) Resource Chart — 2018–2019 Model Years

Model	Wheelbase mm (in)	Max UVW Kg (lbs)	Max GVWR Kg (lbs)	UVW Payload Kg (lbs) *1	Max ARC Weight Kg (lbs) *2	Max Cargo Kg (lbs) *3	Max GAWR Kg (lbs)		Base Curb Weight Kg (lbs)		
							Front	Rear	Front	Rear	Total
S	2,925 (115.2)	1,663.1 (3,667)	2,165 (4,773)	671.3 (1,480)	181.4 (400)	Refer to "Max C"	1,050 (2,315)	1,150 (2,535)	905.9 (1,997.51)	578 (1,274.49)	1,483.9 (3,272)
SV	2,925 (115.2)	1,663.1 (3,667)	2,165 (4,773)	657.7 (1,450)	180.5 (398)	"Max C"	1,050 (2,315)	1,150 (2,535)	906.3 (1,998.39)	578.1 (1,274.71)	1,484.4 (3,273.1)

\*1: Load rating representing maximum allowable weight of people, cargo and body equipment and is reduced by optional equipment weight. [e.g. If CG for SV grade is on X = 1,303 mm; then Payload is 742 lbs considering; 2 Passenger weight 300 lbs + ARC 400 lbs + Cargo 119 lbs (If the CG is located closer to X = 1,397 mm; the Payload will increase due to mass distribution between front & rear axles).]

\*2: ARC aftermarket equipment Accessory Reserve Capacity for models with standard equipment.

\*3: When an ARC is installed, the Max Cargo capacity must be considered by the calculation for Max C.

Maximum Unloaded Vehicle Weight (UVW) Resource Chart — 2020 Model Year

Model	Wheelbase mm (in)	Max UVW Kg (lbs)	Max GVWR Kg (lbs)	UVW Payload Kg (lbs) *1	Max ARC Weight Kg (lbs) *2	Max Cargo Kg (lbs) *3	Max GAWR Kg (lbs)		Base Curb Weight Kg (lbs)		
							Front	Rear	Front	Rear	Total
S	2,925 (115.2)	1,668.2 (3,678)	2,165 (4,773)	671.3 (1,480)	181.4 (400)	Refer to "Max C"	1,050 (2,315)	1,150 (2,535)	906.2 (1,998)	580.6 (1,280)	1,486.8 (3,278)
SV				657.7 (1,450)	179.9 (397)				907.1 (1,999.8)	581.2 (1,281.2)	1,488.3 (3,281.0)

\*1: Load rating representing maximum allowable weight of people, cargo and body equipment and is reduced by optional equipment weight. [e.g. If CG for SV grade is on X = 1,303 mm; then Payload is 742 lbs considering; 2 Passenger weight 300 lbs + ARC 400 lbs + Cargo 119 lbs (If the CG is located closer to X = 1,397 mm; the Payload will increase due to mass distribution between front & rear axles).]

\*2: ARC aftermarket equipment Accessory Reserve Capacity for models with standard equipment.

\*3: When an ARC is installed, the Max Cargo capacity must be considered by the calculation for Max C.

The  $CG_{hb}$  can be approximated using the following formula:

$$CG_{hb} = \frac{W_{rb} \times WB}{W_b}$$

The Max C can be approximated using the following formula:

$$Max\ C = \frac{(FR\ GAWR - W_{FO} - P_{\phi}) \times WB}{WB - CG_{hb}}$$

After calculating Max C, GVW can be confirmed using the following formula:

$$GVW = W_c + W_b + Max\ C + P$$

If GVW is greater than GVWR, then Max C must be reduced.

**F/CMVSS 126 Electronic Stability Control Systems and F/CMVSS 135 Light Vehicle Brake Systems**

For Body Builder's use and applicable to F/CMVSS 126 (1) and 135 (2), the vertical vehicle center of gravity location can be approximated by following the formula below:

$$(1) CG_v = \frac{CG_{vc} W_c + CG_{vb} W_b}{W_c + W_b}$$

$$(2) CG_v = \frac{CG_{vc} W_c + CG_{vb} W_b + P CG_{vp}}{W_c + W_b + P}$$

AAZIA0465ZZ

For  $G_{vc}$ , please use the constant number described on ["List of Terms" \(pg. 70\)](#).

The Vertical Center of Gravity of completed vehicle at Unloaded Vehicle Weight + 136 Kg (300 lbs) Passenger **Load  $CG_v$  (Equation 1 and 2 above) must not exceed 846 mm (33 in), when measured from the ground at the Unloaded Vehicle Weight (UVW).**

**FMVSS AND CMVSS REGULATION LIST****Standards**

For FMVSS standards, refer to the following website:

[www.nhtsa.gov/staticfiles/rulemaking/pdf/FMVSS-QuickRefGuide-HS811439.pdf](http://www.nhtsa.gov/staticfiles/rulemaking/pdf/FMVSS-QuickRefGuide-HS811439.pdf)

For CMVSS standards, refer to the following website:

[www.tc.gc.ca/eng/acts-regulations/regulations-crc-c1038.htm](http://www.tc.gc.ca/eng/acts-regulations/regulations-crc-c1038.htm)

## **PRECAUTIONS**

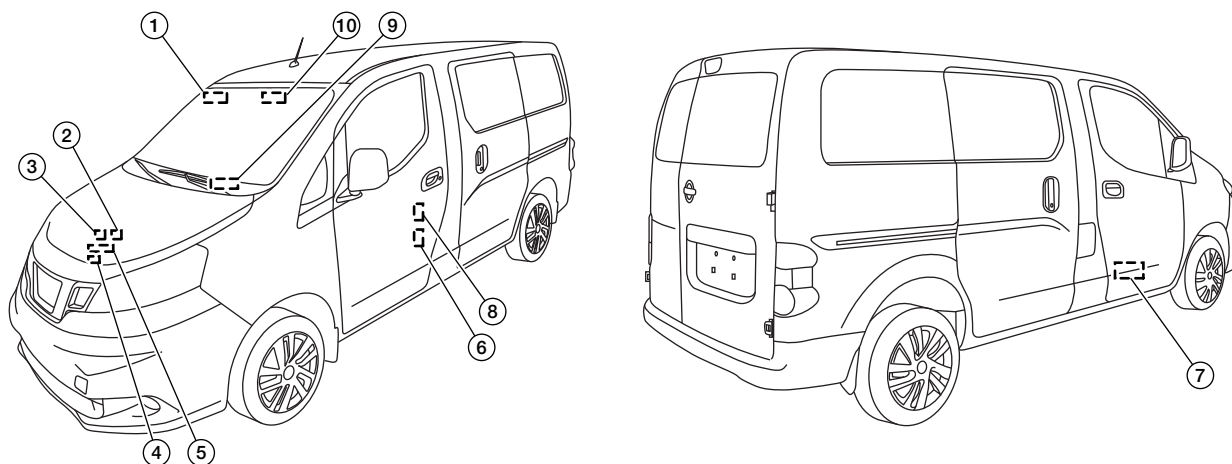
### **Precautions For Electrical CAN (Controller Area Network) System**

- Do not modify the CAN system.
- For additional information and identification of CAN system, refer to the Service Manual or contact Nissan Commercial and Fleet Aftermarket Engineering 1 (855) 651-6655 or by E-mail at [Nissan-AET@Nissan-USA.COM](mailto:Nissan-AET@Nissan-USA.COM).

# MODEL INFORMATION

## LABEL INFORMATION

### Identification Number



AAZIA0154ZZ

- |   |   |  |
|---|---|--|
| 1. SRS air bag warning label  | 2. Air conditioning specification label | 3. Transmission fluid specification label    |
| 4. Brake fluid warning label (Canada Only)  | 5. Emission control information label   | 6. Tire and loading information label        |
| 7. Vehicle identification number (Chassis number) (located near right side of passenger seat) | 8. FMVSS/CMVSS Certification Label      | 9. Vehicle identification number (VIN) plate |
| 10. SRS air bag warning label   |   |  |

## VEHICLE CODING INFORMATION

## Vehicle Identification

## Vehicle Identification Number Arrangement

Position	Character	Qualifier	Definition
1	3N6	Manufacturer	3N6: Mexico produced Nissan Truck
2			
3			
4	C	Engine type	C: MR20DE
5	M0	Vehicle line	M0: Model Code M20
6			
7	K	Body type	K: Van
8	N	Restraint system	N: 2 Seating Capacity, 2WD, Class C + Driver and Passenger 3-Point Manual Belts, Frontal Air Bags, Side Air Bags and Curtain Side Air Bags
9	*	Check digit	(0 to 9 or X) The code for the check digit is determined by a mathematical computation.
10	D	Model year	D: 2013
	E		E: 2014
	F		F: 2015
	G		G: 2016
	H		H: 2017
	J		J: 2018
	K		K: 2019
	L		L: 2020
11	K	Manufacturing plant	K: CIVAC (Cuernavaca, Mexico)
12	XXXXXX	Vehicle serial number	Chassis number
13			
14			
15			
16			
17			



**CLASS****Model Variation**

Prefix and suffix designations:

Position	Character	Qualifier	Definition
1	Y	Body type	Y: Cargo Van
2	DR	Engine	DR: MR20DE (2.0L)
3			
4	A	Axle	A: 2WD
5	L	Drive	L: LH
6	D	Grade	D: S
			G: SV
7	V	Transmission	V: CVT
8	M20	Model	M20: NV200
9			
10			
11	E	Intake	E: EGI
12	U	Zone	N: Canada
			U: USA
13	A	Equipment	A: Std. Equipment
14	XXXXX	Option Codes	Option Codes
15			
16			
17			
18			

Body	Engine	Transmission	Destination	Grade	Equipment	Model
Cargo Van	MR20DE (2.0L)	CVT	USA	SV	NV200	YDRALGV-EUA
				S	NV200	YDRALDV-EUA
			Canada	SV	NV200	YDRALGV-ENA
				S	NV200	YDRALDV-ENA

**GVWR CAPACITY**

Gross Vehicle Weight Rating (GVWR) is the weight specified by Nissan as the maximum allowable weight for the loaded vehicle.

The GVW must not exceed the Gross Vehicle Weight Rating (GVWR) shown on the FMVSS/CMVSS Certification Label. The GVW equals the combined weight of the unloaded vehicle, passengers, luggage and any other optional equipment. In addition, front or rear GAW must not exceed the Gross Axle Weight Rating (GAWR) shown on the FMVSS/CMVSS Certification Label.

## VAN OPTION MASS — 2013-2014 MODEL YEARS

## USA

OPTION PACKAGE DESCRIPTION	kg (lb)		
	Total	Front	Rear
<b>Back Door Glass Package:</b> <ul style="list-style-type: none"> <li>Back door glass with privacy</li> <li>Back door glass defroster</li> <li>Interior rear view mirror</li> </ul>	3.2 (7)	-0.77 (-1.7)	3.97 (8.7)
<b>Bluetooth Hands Free Phone:</b> <ul style="list-style-type: none"> <li>Bluetooth hands free phone</li> <li>MP3 capability in audio unit</li> </ul>	1.15 (2.5)	0.94 (2)	0.21 (0.5)
<b>Technology Package (SV-grade Only):</b> <ul style="list-style-type: none"> <li>5.8 in. display</li> <li>SD based navigation system</li> <li>Rear view camera</li> <li>Bluetooth hands free phone</li> <li>SiriusXM Satellite Radio</li> <li>MP3 playback capability</li> <li>USB input</li> </ul>	2.83 (6.2)	2.01 (4.4)	0.82 (1.8)
<b>Exterior Appearance Package (SV-grade Only):</b> <ul style="list-style-type: none"> <li>Body colored front and rear bumpers</li> <li>Body colored door handles</li> <li>Body colored outside mirrors</li> <li>Full size wheel cover</li> <li>Chrome grille</li> </ul>	2.0 (4.4)	1.10 (2.4)	0.90 (2)
<b>Cruise Control Package (S-grade Only):</b> <ul style="list-style-type: none"> <li>Cruise control with steering wheel controls</li> </ul>	0.09 (0.19)	0.07 (0.15)	0.02 (0.04)

## Canada

OPTION PACKAGE DESCRIPTION	kg (lb)		
	Total	Front	Rear
<b>Back Door Glass Package:</b> <ul style="list-style-type: none"> <li>Back door glass with privacy</li> <li>Back door glass defroster</li> <li>Interior rear view mirror</li> </ul>	3.2 (7)	-0.77 (-1.7)	3.97 (8.7)
<b>Bluetooth Hands Free Phone (S-grade Only):</b> <ul style="list-style-type: none"> <li>Bluetooth hands free phone</li> <li>MP3 capability in audio unit</li> </ul>	1.15 (2.5)	0.94 (2)	0.21 (0.5)
<b>Technology Package (SV-grade Only):</b> <ul style="list-style-type: none"> <li>5.8 in. display</li> <li>SD based navigation system</li> <li>Rear view camera</li> <li>SiriusXM Satellite Radio</li> <li>MP3 playback capability</li> <li>USB input</li> </ul> Memo: Standard Bluetooth on SV-grade	1.68 (3.7)	1.07 (2.4)	0.61 (1.3)
<b>Splash Guards:</b> <ul style="list-style-type: none"> <li>Front and rear splash guards</li> </ul>	0.55 (1.2)	0.24 (0.5)	0.31 (0.7)
<b>SV Wheel Covers:</b> <ul style="list-style-type: none"> <li>Wheel covers</li> </ul>	2.0 (4.4)	1.10 (2.4)	0.90 (2)

## VAN OPTION MASS — 2015-2016 MODEL YEARS

## USA

OPTION PACKAGE DESCRIPTION	kg (lb)		
	Total	Front	Rear
<b>Back Door Glass Package:</b> <ul style="list-style-type: none"> <li>Back door glass with privacy</li> <li>Back door glass defroster</li> <li>Interior rear view mirror</li> </ul>	3.6 (7.9)	-0.86 (-1.9)	4.44 (9.8)
<b>Bluetooth® Hands Free Phone:</b> <ul style="list-style-type: none"> <li>Bluetooth® hands free phone</li> <li>MP3 capability in audio unit</li> </ul>	2.06 (4.5)	1.68 (3.7)	0.37 (0.8)
<b>Technology Package (SV-grade Only):</b> <ul style="list-style-type: none"> <li>5.8 in. display</li> <li>Enhanced Voice Recognition for navigation and audio</li> <li>USB input</li> <li>Bluetooth® hands free phone</li> <li>Nissan Connect™ apps</li> <li>SiriusXM Satellite Radio</li> <li>MP3 playback capability</li> <li>Rear view camera</li> </ul>	3.78 (8.3)	2.79 (6.1)	0.99 (2.2)
<b>Exterior Appearance Package (SV-grade Only):</b> <ul style="list-style-type: none"> <li>Body colored front and rear bumpers</li> <li>Body colored door handles</li> <li>Body colored outside mirrors</li> <li>Full size wheel cover</li> <li>Chrome grille</li> </ul>	2.0 (4.4)	1.10 (2.4)	0.90 (2)
<b>Cruise Control Package (S-grade Only):</b> <ul style="list-style-type: none"> <li>Cruise control with steering wheel controls</li> </ul>	0.09 (0.19)	0.07 (0.15)	0.02 (0.04)
<b>Sliding Door Glass Package (Passenger Side):</b> <ul style="list-style-type: none"> <li>RH slide door glass</li> </ul>	2.2 (4.9)	0.58 (1.3)	1.62 (3.6)
<b>Rear Sonar System Package:</b> <ul style="list-style-type: none"> <li>Rear sonar sensors</li> <li>Molded-in black color sensors</li> </ul>	1.14 (2.5)	-0.12 (-0.3)	1.25 (2.8)

**Canada**

OPTION PACKAGE DESCRIPTION	kg (lb)		
	Total	Front	Rear
<b>Back Door Glass Package:</b> <ul style="list-style-type: none"> <li>Back door glass with privacy</li> <li>Back door glass defroster</li> <li>Interior rear view mirror</li> </ul>	3.6 (7.9)	-0.86 (-1.9)	4.44 (9.8)
<b>Bluetooth® Hands Free Phone (S-grade Only):</b> <ul style="list-style-type: none"> <li>Bluetooth® hands free phone</li> <li>MP3 capability in audio unit</li> </ul>	2.06 (4.5)	1.68 (3.7)	0.37 (0.8)
<b>Technology Package (SV-grade Only):</b> <ul style="list-style-type: none"> <li>5.8 in. display</li> <li>Enhanced Voice Recognition for navigation and audio</li> <li>USB input</li> <li>Nissan Connect™ apps</li> <li>SiriusXM Satellite Radio</li> <li>Rear view camera</li> </ul> Memo: Standard Bluetooth® on SV-grade	1.72 (3.8)	1.11 (2.4)	0.61 (1.4)
<b>Splash Guards:</b> <ul style="list-style-type: none"> <li>Front and rear splash guards</li> </ul>	0.55 (1.2)	0.24 (0.5)	0.31 (0.7)
<b>SV Wheel Covers:</b> <ul style="list-style-type: none"> <li>Wheel covers</li> </ul>	2.0 (4.4)	1.10 (2.4)	0.90 (2)
<b>Sliding Door Glass Package (Passenger Side):</b> <ul style="list-style-type: none"> <li>RH slide door glass</li> </ul>	2.2 (4.9)	0.58 (1.3)	1.62 (3.6)
<b>Rear sonar system package:</b> <ul style="list-style-type: none"> <li>Rear sonar sensors</li> <li>Molded-in black color sensors</li> </ul>	1.14 (2.5)	-0.12 (-0.3)	1.25 (2.8)

## VAN OPTION MASS — 2017 MODEL YEAR

## USA

OPTION PACKAGE DESCRIPTION	kg (lb)		
	Total	Front	Rear
<b>Back Door Glass Package:</b> <ul style="list-style-type: none"> <li>Back door glass with privacy</li> <li>Back door glass defroster</li> <li>Interior rear view mirror</li> </ul>	3.6 (7.9)	-0.86 (-1.9)	4.44 (9.8)
<b>Bluetooth® Hands Free Phone:</b> <ul style="list-style-type: none"> <li>Bluetooth® hands free phone</li> <li>MP3 capability in audio unit</li> </ul>	2.06 (4.5)	1.68 (3.7)	0.37 (0.8)
<b>Technology Package (SV-grade Only):</b> <ul style="list-style-type: none"> <li>5.8 in. display</li> <li>Enhanced Voice Recognition for navigation and audio</li> <li>USB input</li> <li>Bluetooth® hands free phone</li> <li>Nissan Connect™ apps</li> <li>SiriusXM Satellite Radio</li> <li>MP3 playback capability</li> <li>Rear view camera</li> </ul>	4.05 (8.9)	2.95 (6.5)	1.10 (2.4)
<b>Exterior Appearance Package (SV-grade Only):</b> <ul style="list-style-type: none"> <li>Body colored front and rear bumpers</li> <li>Body colored outside mirrors, rear license plate finisher</li> <li>Full size wheel cover</li> <li>Chrome grille</li> </ul>	2.0 (4.4)	1.10 (2.4)	0.90 (2)
<b>Cruise Control Package (S-grade Only):</b> <ul style="list-style-type: none"> <li>Cruise control with steering wheel controls</li> </ul>	0.09 (0.19)	0.07 (0.15)	0.02 (0.04)
<b>Sliding Door Glass Package (Passenger Side):</b> <ul style="list-style-type: none"> <li>Passenger side sliding door glass with wire mesh</li> <li>Back door glass with wire mesh</li> <li>Back door glass defroster</li> <li>Interior rear view mirror</li> </ul>	7.59 (16.8)	-1.13 (-2.4)	8.72 (19.2)
<b>Rear Sonar System Package:</b> <ul style="list-style-type: none"> <li>Rear sonar sensors</li> <li>Molded-in black color sensors</li> </ul>	1.14 (2.5)	-0.11 (-0.2)	1.25 (2.8)

## Canada

OPTION PACKAGE DESCRIPTION	kg (lb)		
	Total	Front	Rear
<b>Back Door Glass Package:</b> <ul style="list-style-type: none"> <li>Back door glass with privacy</li> <li>Back door glass defroster</li> <li>Interior rear view mirror</li> </ul>	3.6 (7.9)	-0.86 (-1.9)	4.44 (9.8)
<b>Bluetooth® Hands Free Phone (S-grade Only):</b> <ul style="list-style-type: none"> <li>Bluetooth® hands free phone</li> <li>MP3 capability in audio unit</li> </ul>	2.06 (4.5)	1.69 (3.7)	0.37 (0.8)
<b>Technology Package (SV-grade Only):</b> <ul style="list-style-type: none"> <li>5.8 in. color touch-screen display</li> <li>Enhanced Voice Recognition for navigation and audio</li> <li>USB Connection port for iPod® interface and other compatible devices</li> <li>Nissan Connect™ apps</li> <li>SiriusXM Satellite Radio</li> <li>Hands-free text messaging assistant</li> <li>SiriusXM Traffic</li> <li>SiriusXM TravelLink™ (fuel prices, weather, movie listings, and stock info)</li> </ul> Memo: Standard Bluetooth® on SV-grade	1.99 (4.4)	1.27 (2.8)	0.73 (1.6)
<b>Splash Guards:</b> <ul style="list-style-type: none"> <li>Front and rear splash guards</li> </ul>	0.55 (1.2)	0.24 (0.5)	0.31 (0.7)
<b>SV Wheel Covers:</b> <ul style="list-style-type: none"> <li>Wheel covers</li> </ul>	2.0 (4.4)	1.10 (2.4)	0.90 (2)
<b>Sliding Door Glass Package (Passenger Side):</b> <ul style="list-style-type: none"> <li>Passenger side sliding door glass with wire mesh</li> <li>Back door glass with wire mesh</li> <li>Back door glass defroster</li> <li>Interior rear view mirror</li> </ul>	7.59 (16.8)	-1.13 (-2.4)	8.72 (19.2)
<b>Rear sonar system package:</b> <ul style="list-style-type: none"> <li>Rear sonar sensors</li> <li>Molded-in black color sensors</li> </ul>	1.14 (2.5)	-0.11 (-0.2)	1.25 (2.8)



## VAN OPTION MASS — 2018–2019 MODEL YEARS

## USA

OPTION PACKAGE DESCRIPTION	kg (lb)		
	Total	Front	Rear
<b>Back Door Glass Package:</b> <ul style="list-style-type: none"> <li>Back door glass with privacy</li> <li>Back door glass defroster</li> <li>Interior rear view mirror</li> </ul>	3.6 (7.9)	-0.86 (-1.9)	4.44 (9.8)
<b>Navigation Package (SV-grade Only):</b> <ul style="list-style-type: none"> <li>NissanConnect<sup>®</sup> with Navigation and Mobile Apps</li> <li>Nissan Navigation System with Voice Guidance</li> <li>5.8" Color Touch-screen display</li> <li>Nissan Voice Recognition for Navigation and Audio</li> <li>SiriusXM Satellite Radio</li> <li>SiriusXM Traffic</li> <li>SiriusXM Travel Link<sup>®</sup> (Fuel prices, Weather, Movie listings, and Stock info)</li> <li>USB Connection Port for iPod<sup>®</sup> Interface and other Compatible Devices</li> </ul>	1.9 (4.2)	1.27 (2.8)	0.63 (1.4)
<b>Cruise Control Package (S-grade Only):</b> <ul style="list-style-type: none"> <li>Cruise control with steering wheel controls</li> </ul>	0.09 (0.19)	0.07 (0.15)	0.02 (0.04)
<b>Sliding Door Glass Package (Passenger Side):</b> <ul style="list-style-type: none"> <li>Passenger side sliding door glass with wire mesh</li> <li>Back door glass with wire mesh</li> <li>Back door glass defroster</li> <li>Interior rear view mirror</li> </ul>	7.59 (16.8)	-1.13 (-2.4)	8.72 (19.2)
<b>Rear Sonar System Package:</b> <ul style="list-style-type: none"> <li>Rear sonar sensors</li> <li>Molded-in black color sensors</li> </ul>	1.14 (2.5)	-0.11 (-0.2)	1.25 (2.7)

**Canada**

OPTION PACKAGE DESCRIPTION	kg (lb)		
	Total	Front	Rear
<b>Back Door Glass Package:</b> <ul style="list-style-type: none"> <li>Back door glass with privacy</li> <li>Back door glass defroster</li> <li>Interior rear view mirror</li> </ul>	3.6 (7.9)	-0.86 (-1.9)	4.44 (9.8)
<b>Navigation Package (SV-grade Only):</b> <ul style="list-style-type: none"> <li>NissanConnect® with Navigation and Mobile Apps</li> <li>Nissan Navigation System with Voice Guidance</li> <li>5.8" Color Touch-screen display</li> <li>Nissan Voice Recognition for Navigation and Audio</li> <li>SiriusXM Satellite Radio</li> <li>SiriusXM Traffic</li> <li>SiriusXM Travel Link® (Fuel prices, Weather, Movie listings, and Stock info)</li> <li>USB Connection Port for iPod® Interface and other Compatible Devices</li> </ul>	1.9 (4.2)	1.27 (2.8)	0.63 (1.4)
<b>Splash Guards:</b> <ul style="list-style-type: none"> <li>Front and rear splash guards</li> </ul>	0.55 (1.2)	0.24 (0.5)	0.31 (0.7)
<b>SV Wheel Covers:</b> <ul style="list-style-type: none"> <li>Wheel covers</li> </ul>	2.0 (4.4)	1.10 (2.4)	0.90 (2)
<b>Sliding Door Glass Package (Passenger Side):</b> <ul style="list-style-type: none"> <li>Passenger side sliding door glass with wire mesh</li> <li>Back door glass with wire mesh</li> <li>Back door glass defroster</li> <li>Interior rear view mirror</li> </ul>	7.59 (16.8)	-1.13 (-2.4)	8.72 (19.2)
<b>Rear sonar system package:</b> <ul style="list-style-type: none"> <li>Rear parking sensors (x4)</li> <li>Molded-In Black Color Sensors</li> </ul>	1.14 (2.5)	-0.11 (-0.2)	1.25 (2.7)

## VAN OPTION MASS — 2020 MODEL YEAR

## USA

OPTION PACKAGE DESCRIPTION	kg (lb)		
	Total	Front	Rear
<b>Back Door Glass Package:</b> <ul style="list-style-type: none"> <li>Back door glass with privacy</li> <li>Back door glass defroster</li> <li>Interior rear view mirror</li> </ul>	3.6 (7.9)	-0.86 (-1.9)	4.45 (9.8)
<b>Cruise Control Package (S-grade Only):</b> <ul style="list-style-type: none"> <li>Cruise control with steering wheel controls</li> </ul>	0.09 (0.19)	0.7 (0.15)	0.02 (0.04)
<b>Sliding Door Glass Package (Passenger Side):</b> <ul style="list-style-type: none"> <li>Passenger side sliding door glass with wire mesh</li> <li>Back door glass with wire mesh</li> <li>Back door glass defroster</li> <li>Interior rear view mirror</li> </ul>	8.2 (18.0)	1.5 (3.3)	6.7 (14.7)
<b>Rear Sonar System Package:</b> <ul style="list-style-type: none"> <li>Rear sonar sensors</li> </ul>	1.14 (2.5)	-0.11 (-0.2)	1.25 (2.7)
<b>Rubber Floor Mats Package:</b> <ul style="list-style-type: none"> <li>Rubber Floor Mats</li> </ul>	2.8 (6.2)	2 (4.4)	0.8 (1.8)
<b>Rear Bumper Protector Package:</b> <ul style="list-style-type: none"> <li>Rear Bumper Protector</li> </ul>	0.47 (1.0)	-1.29 (-2.8)	-0.82 (-3.9)
<b>Splash Guards Package:</b> <ul style="list-style-type: none"> <li>Splash Guards</li> </ul>	0.55 (1.2)	0.24 (0.5)	0.31 (0.7)

## Canada

OPTION PACKAGE DESCRIPTION	kg (lb)		
	Total	Front	Rear
<b>Back Door Glass Package:</b> <ul style="list-style-type: none"> <li>Back door glass with privacy</li> <li>Back door glass defroster</li> <li>Interior rear view mirror</li> </ul>	3.6 (7.9)	-0.9 (-1.9)	4.5 (9.8)
<b>SV Wheel Covers:</b> <ul style="list-style-type: none"> <li>Wheel covers</li> </ul>	2.0 (4.4)	1.0 (2.2)	1.0 (2.2)
<b>Sliding Door Glass Package (Passenger Side):</b> <ul style="list-style-type: none"> <li>Passenger side sliding door glass with wire mesh</li> <li>Back door glass with wire mesh</li> <li>Back door glass defroster</li> <li>Interior rear view mirror</li> </ul>	8.2 (18.0)	1.5 (3.3)	6.7 (14.7)
<b>Rubber Floor Mats Package:</b> <ul style="list-style-type: none"> <li>Rubber Floor Mats</li> </ul>	2.8 (6.2)	2 (4.4)	0.8 (1.8)

# RESOURCE CHARTS

## WEIGHTS — 2013-2014 MODEL YEARS

### NOTE:

All specifications are the same for USA and Canada except where indicated.

Item	Grade →	S	SV
<b>Final Drive Ratio</b>	—	5.407 : 1	5.407 : 1
<b>Base Curb Weight - Total</b>	<b>USA</b> kg (lbs) →	1,477.7 (3,258)	1,478.9 (3,260)
	<b>Canada</b> kg (lbs) →	1,476.1 (3,254.8)	1,480.1 (3,263.6)
<b>Base Curb Weight - Rear</b>	<b>USA</b> kg (lbs) →	577.1 (1,272)	577.5 (1,273)
	<b>Canada</b> kg (lbs) →	576.8 (1,271.8)	577.8 (1,274)
<b>Base Curb Weight - Front</b>	<b>USA</b> kg (lbs) →	900.6 (1,985)	901.4 (1,987)
	<b>Canada</b> kg (lbs) →	899.3 (1,983)	902.4 (1,989.8)
<b>Maximum GVWR - Max. Pass., Plus Options and Cargo</b>	<b>USA</b> kg (lbs) →	2,155 (4,751)	2,155 (4,751)
	<b>Canada</b> kg (lbs) →	2,155 (4,751)	2,155 (4,751)
<b>Max. Tires and Load Rating @ 325 kPa (48 psi) - Rear</b>	kg (lbs)	185/60R15C * 94/92T 670 (1,477)	185/60R15C * 94/92T 670 (1,477)
<b>Max. Tires and Load Rating @ 300 kPa (44 psi) - Front</b>	kg (lbs)	185/60R15C * 94/92T 670 (1,477)	185/60R15C * 94/92T 670 (1,477)
<b>Standard Payload</b>	<b>USA</b> kg (lbs) →	680 (1,500)	676 (1,491)
	<b>Canada</b> kg (lbs) →	680 (1,500)	680 (1,500)
<b>Rear GAWR</b>	kg (lbs)	1,150 (2,535)	1,150 (2,535)
<b>Front GAWR</b>	kg (lbs)	1,040 (2,293)	1,040 (2,293)
<b>Roof Load Weight Rating</b> (pg. 240)	kg (lbs)	100 (220.5)	101 (220.5)
<b>Roof Bow Weld Nut Loading Specification</b> (pg. 238)	kg (lbs)	5 (11) per point 20 (44) across all 4 points	
<b>Bulkhead Weld Nut Loading Specification</b> (pg. 233)	kg (lbs)	10 (22) per point 40 (88) across all 4 points	

\* Use commercial (C) rated tires only. Do not use passenger rated tires. This vehicle is equipped with special high load index 94 tires to carry a payload of up to 1,500 lbs (680 kg) as indicated on the tire information placard. Some aftermarket replacement tires may have lower load index ratings. Using tires with lower load index ratings will reduce the vehicle's maximum payload capacity (for example, tires with load index 84 would reduce maximum payload to 750 lbs [340 kg] and tires with load index 88 would reduce maximum payload to 544 kg [1,200 lbs]).

## WEIGHTS — 2015-2019 MODEL YEARS

## NOTE:

All specifications are the same for USA and Canada except where indicated.

Item	Grade →	S	SV
<b>Final Drive Ratio</b>	—	4.828 : 1	4.828 : 1
<b>Base Curb Weight - Total</b>	<b>USA</b> kg (lbs) →	1,481.7 (3,267)	1,482.8 (3,269)
	<b>Canada</b> kg (lbs) →	1,482.2 (3,268.3)	1,486.1 (3,276.9)
<b>Base Curb Weight - Rear</b>	<b>USA</b> kg (lbs) →	577.3 (1,273)	577.7 (1,274)
	<b>Canada</b> kg (lbs) →	577.4 (1,273.2)	579.4 (1,277.6)
<b>Base Curb Weight - Front</b>	<b>USA</b> kg (lbs) →	904.4 (1,994)	905.1 (1,995)
	<b>Canada</b> kg (lbs) →	904.8 (1,995.1)	906.8 (1,999.5)
<b>Maximum GVWR - Max. Pass., Plus Options and Cargo (2015-2016 Model Years)</b>	kg (lbs) →	2,155 (4,751)	2,155 (4,751)
<b>Maximum GVWR - Max. Pass., Plus Options and Cargo (2017-2019 Model Years)</b>	kg (lbs) →	2,165 (4,773)	2,165 (4,773)
<b>Max. Tires and Load Rating @ 325 kPa (48 psi) - Rear</b>	kg (lbs)	185/60R15C * 94/92T 670 (1,477)	185/60R15C * 94/92T 670 (1,477)
<b>Max. Tires and Load Rating @ 300 kPa (44 psi) - Front</b>	kg (lbs)	185/60R15C * 94/92T 670 (1,477)	185/60R15C * 94/92T 670 (1,477)
<b>Standard Payload (2015 Model Year)</b>	<b>USA</b> kg (lbs) →	673.3 (1,484.4)	672.2 (1,481.8)
	<b>Canada</b> kg (lbs) →	672.8 (1,483.4)	668.9 (1,474.6)
<b>Standard Payload (2016-2019 Model Years)</b>	kg (lbs)	671.3 (1,480)	657.7 (1,450)
<b>Rear GAWR</b>	kg (lbs)	1,150 (2,535)	1,150 (2,535)
<b>Front GAWR</b>	kg (lbs)	1,050 (2,315)	1,050 (2,315)
<b>Roof Load Weight Rating</b> (pg. 240)	kg (lbs)	100 (220.5)	101 (220.5)
<b>Roof Bow Weld Nut Loading Specification</b> (pg. 238)	kg (lbs)	5 (11) per point 10 (22) across all 2 points	
<b>Bulkhead Weld Nut Loading Specification</b> (pg. 233)	kg (lbs)	10 (22) per point 40 (88) across all 4 points	

\* Use commercial (C) rated tires only. Do not use passenger rated tires. This vehicle is equipped with special high load index 94 tires to carry a payload of up to 1,500 lbs (680 kg) as indicated on the tire information placard. Some aftermarket replacement tires may have lower load index ratings. Using tires with lower load index ratings will reduce the vehicle's maximum payload capacity (for example, tires with load index 84 would reduce maximum payload to 750 lbs [340 kg] and tires with load index 88 would reduce maximum payload to 544 kg [1,200 lbs]).

## WEIGHTS — 2020 MODEL YEAR

## NOTE:

All specifications are the same for USA and Canada except where indicated.

Item	Grade →	S	SV
<b>Final Drive Ratio</b>	—	4.828 : 1	4.828 : 1
<b>Base Curb Weight - Total</b>	<b>USA</b> kg (lbs) →	1,486.5 (3,277.1)	1,488.3 (3,281.0)
	<b>Canada</b> kg (lbs) →	1,486.8 (3,277.8)	1,487.9 (3,280.4)
<b>Base Curb Weight - Rear</b>	<b>USA</b> kg (lbs) →	580.5 (1,279.9)	581.2 (1,281.2)
	<b>Canada</b> kg (lbs) →	580.6 (1,279.9)	581.8 (1,282.7)
<b>Base Curb Weight - Front</b>	<b>USA</b> kg (lbs) →	906.0 (1,997.4)	907.1 (1,999.8)
	<b>Canada</b> kg (lbs) →	906.2 (1,997.9)	906.1 (1,997.7)
<b>Maximum GVWR - Max. Pass., Plus Options and Cargo</b>	kg (lbs) →	2,165 (4,773)	2,165 (4,773)
<b>Max. Tires and Load Rating @ 325 kPa (48 psi) - Rear</b>	kg (lbs)	185/60R15C * 94/92T 670 (1,477)	185/60R15C * 94/92T 670 (1,477)
<b>Max. Tires and Load Rating @ 300 kPa (44 psi) - Front</b>	kg (lbs)	185/60R15C * 94/92T 670 (1,477)	185/60R15C * 94/92T 670 (1,477)
<b>Standard Payload</b>	<b>USA</b> kg (lbs) →	671.3 (1,480)	657.7 (1,450)
	<b>Canada</b> kg (lbs) →	657.7 (1,450)	657.7 (1,450)
<b>Rear GAWR</b>	kg (lbs)	1,150 (2,535)	1,150 (2,535)
<b>Front GAWR</b>	kg (lbs)	1,050 (2,315)	1,050 (2,315)
<b>Roof Load Weight Rating</b> (pg. 240)	kg (lbs)	100 (220.5)	101 (220.5)
<b>Roof Bow Weld Nut Loading Specification</b> (pg. 238)	kg (lbs)	5 (11) per point 10 (22) across all 2 points	
<b>Bulkhead Weld Nut Loading Specification</b> (pg. 233)	kg (lbs)	10 (22) per point 40 (88) across all 4 points	

\* Use commercial (C) rated tires only. Do not use passenger rated tires. This vehicle is equipped with special high load index 94 tires to carry a payload of up to 1,500 lbs (680 kg) as indicated on the tire information placard. Some aftermarket replacement tires may have lower load index ratings. Using tires with lower load index ratings will reduce the vehicle's maximum payload capacity (for example, tires with load index 84 would reduce maximum payload to 750 lbs [340 kg] and tires with load index 88 would reduce maximum payload to 544 kg [1,200 lbs]).

## INTERIOR MEASUREMENTS

**NOTE:**

All specifications are the same for USA and Canada except where indicated.

Item	Grade →	S	SV
<b>Maximum Cargo Width at Wheel Wells</b> (pg. 107)	mm (in)	1,219.4 (48)	1,219.4 (48)
<b>Maximum Cargo Width at Floor</b> (pg. 107)	mm (in)	1,480 (58.3)	1,480 (58.3)
<b>Maximum Cargo Height</b> (pg. 107)	mm (in)	1,330 (52.4)	1,330 (52.4)
<b>Maximum Cargo Length at Floor - Behind Seat</b> (pg. 107)	mm (in)	2,103 (82.8)	2,103 (82.8)
<b>Maximum Cargo Length- Behind Seat Back in Upright Position</b> (pg. 107)	mm (in)	2,262 (89.1)	2,262 (89.1)
<b>Cargo Volume</b>	m <sup>3</sup> (ft <sup>3</sup> )	3.474 (122.7)	3.474 (122.7)



## EXTERIOR MEASUREMENTS

## NOTE:

All specifications are the same for USA and Canada except where indicated.

Item		Grade →	S	SV
Vehicle Height (pg. 132)	2013–2019 model years	mm (in)	1,871.7 (73.7)	1,871.7 (73.7)
	2020 model year	mm (in)	1,866.7 (73.5)	1,866.7 (73.5)
Wheelbase (pg. 132)		mm (in)	2,925 (115.2)	2,925 (115.2)
Wheel Type (pg. 251)		—	Steel	Steel
Front Tread Width		mm (in)	1,525 (60)	1,525 (60)
Rear Tread Width		mm (in)	1,520 (59.8)	1,520 (59.8)
Turning Radius (pg. 250)		m (ft)	11.2 (36.7)	11.2 (36.7)
Cargo Area Lifterover Height (pg. 132)		mm (in)	535.7 (21)	535.7 (21)
Slide Door Opening Width - Maximum Clearance, Without Door (pg. 126)		Without Door Seal and Interior Trim mm (in) →	818 (32.2)	818 (32.2)
		With Door Seal and Interior Trim mm (in) →	812 (32)	812 (32)
Slide Door Opening Width - Maximum Clearance, With Door (pg. 128)		Without Door Seal and Interior Trim mm (in) →	624 (24.6)	624 (24.6)
		With Door Seal and Interior Trim mm (in) →	622 (24.5)	622 (24.5)
Slide Door Opening Height - Maximum Clearance (pg. 128)		Without Door Seal and Interior Trim mm (in) →	1,181 (46.5)	1,181 (46.5)
		With Door Seal and Interior Trim mm (in) →	1,168 (46)	1,168 (46)
Vehicle Length (pg. 132)		mm (in)	4,732.5 (186.3)	4,732.5 (186.3)
Front Overhang (pg. 132)		mm (in)	968.2 (38.1)	968.2 (38.1)
Rear Overhang (pg. 132)		mm (in)	839.3 (33)	839.3 (33)
Rear Door Opening Height - Maximum Clearance (pg. 130)		mm (in)	1,238 (48.7)	1,238 (48.7)
Rear Door Opening Width - Maximum Clearance (pg. 130)		mm (in)	1,260 (49.6)	1,260 (49.6)
Vehicle Width - Without Mirrors (pg. 132)		mm (in)	1,729.5 (68.1)	1,729.5 (68.1)
Vehicle Width - With Mirrors (pg. 131)		mm (in)	2,010 (79.1)	2,010 (79.1)
Vehicle Width - With Mirrors Folded (pg. 131)		mm (in)	1,856 (73.1)	1,856 (73.1)

## EXTERIOR MEASUREMENTS

[RESOURCE CHARTS]

Item		Grade →	S	SV
<b>Ground Clearance - With Vehicle Parked (USA and Canada)</b>	2013–2014 model years	mm (in)	Front/Rear - 164 (6.5)	Front/Rear - 211 (8.3)
<b>Ground Clearance - With Vehicle Parked (USA)</b>	2015–2017 model years	mm (in)	Front/Rear - 164 (6.4) / 155 (6.1)	Front/Rear - 164 (6.4) / 155 (6.1)
<b>Ground Clearance - With Vehicle Parked (Canada)</b>	2016 model year	mm (in)	Front/Rear - 164 (6.5)	Front/Rear - 211 (8.3)
<b>Ground Clearance - With Vehicle Running (USA and Canada)</b>	2013–2017 model years	mm (in)	Front/Rear - 140 (5.5)	Front/Rear - 165 (6.5)
<b>Ground Clearance (USA and Canada)</b>	2018–2020 model years	mm (in)	Front/Rear -161.9 (6.37)	Front/Rear -161.9 (6.37)
<b>Step-in Height - Front</b>		mm (in)	376.8 (14.8)	376.8 (14.8)
<b>Step-in Height - Slide Door</b>		mm (in)	487.1 (19.2)	487.1 (19.2)
<b>Step-in Height - Rear</b>		mm (in)	535.7 (21.1)	535.7 (21.1)

# BODY DIMENSIONS

## PASSENGER COMPARTMENT

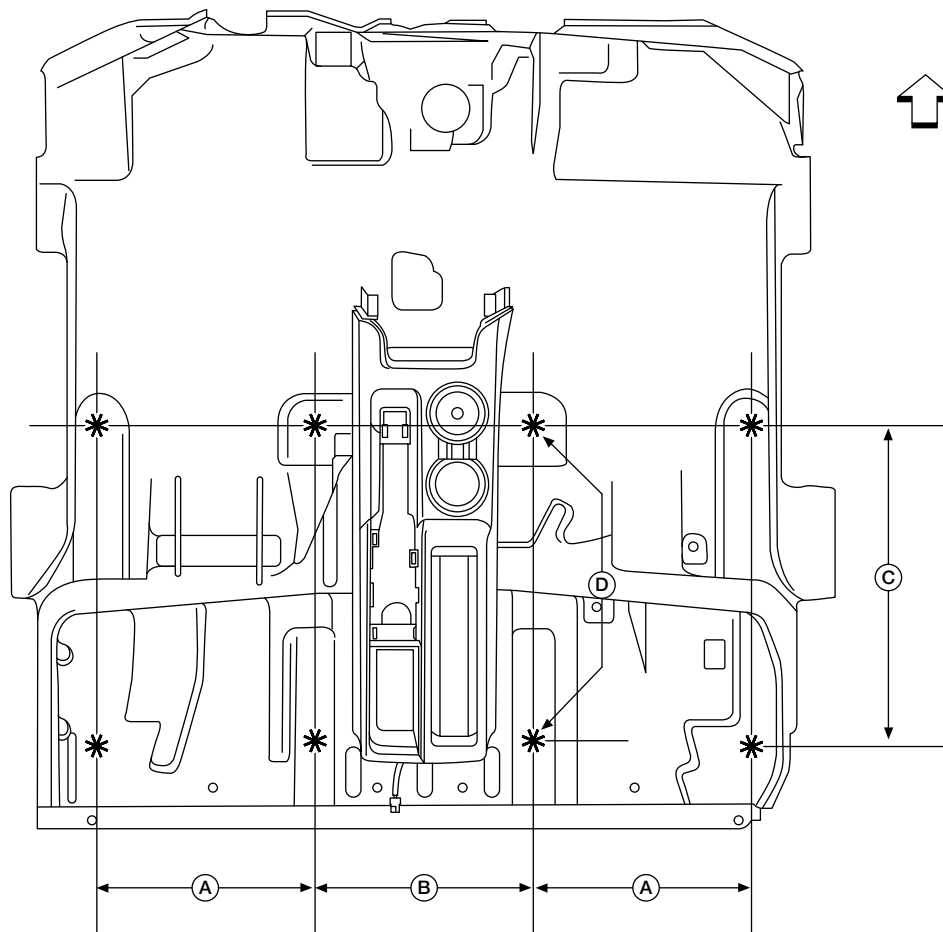
### Seat Mounting Holes

#### Front Seat Mounting Hole Dimensions



#### **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, the front passenger seat cannot be permanently removed.



AAZIA0227ZZ

←: Front of vehicle.

A. 380 mm (15.0 in)

B. 375 mm (14.8 in)

C. 560 mm (22.0 in)

D. 550 mm (21.7 in)

**WARNING:**

After removal and installation of the front passenger seat, a zero point reset function must be performed. It is recommended that this be performed by a NISSAN dealer using a special tool. If zero point reset is not performed, the occupant classification system may not operate normally which may increase the risk of serious injury or death in a collision.

**WARNING:**

Do not disturb or modify the front passenger seat wiring. Failure to follow this instruction may cause incorrect operation of the occupant classification system and front passenger air bag or system failure and may increase the risk of serious injury or death in a collision.

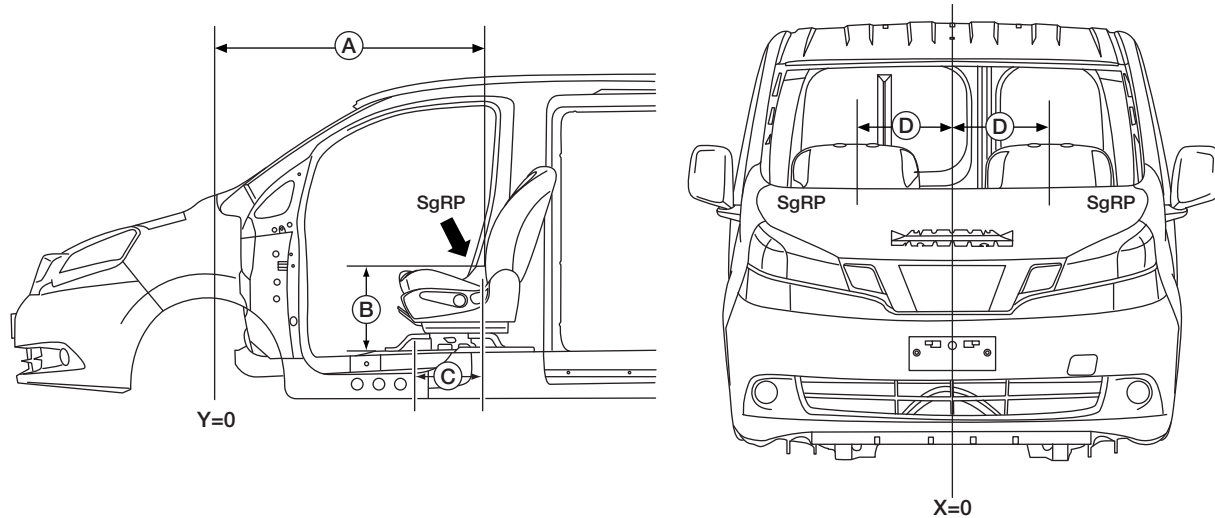
**NOTE:**

**For complete removal and installation procedure of the front seats, refer to the SE section in the service manual. Basic seat installation uses the following sequence:**

1. Before removing or installing the front seats, turn ignition switch OFF, disconnect both battery terminals and wait at least 3 minutes.
2. Place the seat in the vehicle on the mounting stud with the locator pin correctly seated. Make sure there are no foreign objects under the seat, seat belts, pinched wires or carpeting between the seat mounting feet and floor.
3. Fully connect the seat electrical connectors and make sure the inboard and outboard seat tracks are positioned evenly and locked in place.
4. Install the front outboard seat bolt and hand tighten only.
5. Install the front inboard seat bolt and tighten to 40 Nm (30 ft-lb).
6. Tighten the front outboard seat bolt to 40 Nm (30 ft-lb).
7. Move the seat forward and install the rear inboard seat bolt. Make sure both seat tracks are locked in place and tighten to 40 Nm (30 ft-lb).
8. Install the rear outboard seat nut. Tighten to 40 Nm (30 ft-lb) and install the cap.
9. Connect the battery.
10. For front passenger seat, the zero point reset function must be performed. It is recommended that this be performed by a NISSAN dealer.
11. Install all the seat fastener caps.

## Seat Position Diagrams

## SgRP Front Seat Dimension



AAZIA0148ZZ

**NOTE:****Seat is in full down and back position.**

A. 1,086.5 mm (42.77 in)

B. 625.9 mm (24.64 in)

C. 240 mm (9.44 in)

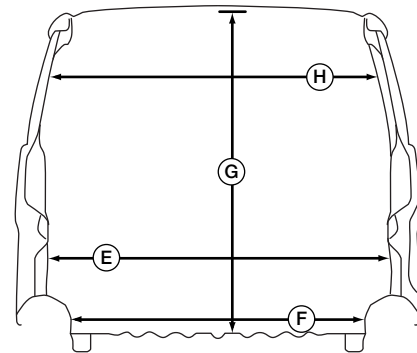
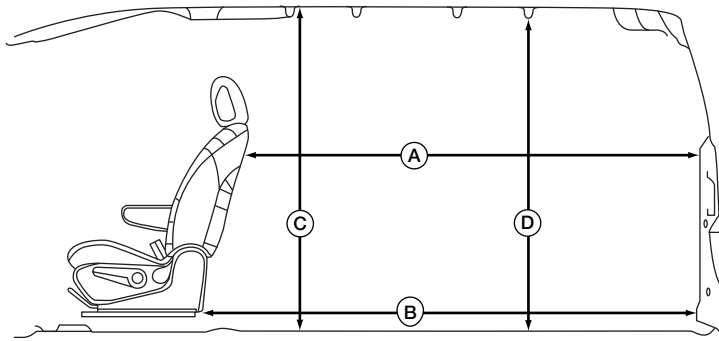
D. 365 mm (14.37 in)

## [BODY DIMENSIONS]

## CARGO AREA

## Interior Dimensions

## Overall



AAZIA0149ZZ

A. Length behind seat back in upright position:

- rear-most: 2,022 mm (79.6 in)
- center: 2,144 mm (84.4 in)
- front-most: 2,262 mm (89.1 in)

D. Height at rear wheel center: 1,317 mm (51.9 in)

G. Maximum height at rear cargo entrance with striker: 1,198 mm (47.2 in)

B. Maximum length at floor behind seat base: 2,103.5 mm (82.8 in)

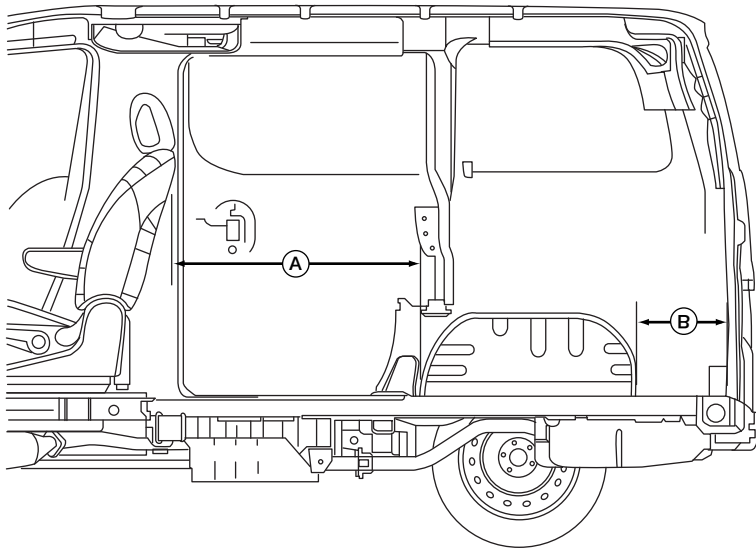
E. Maximum width at floor:

- between slide doors: 1,480 mm (58.3 in)
- behind wheel wells: 1,390.8 mm (54.8 in)

H. Maximum width at center of window opening area: 1,500 mm (59.1 in)

C. Maximum cargo height: 1,330 mm (52.4 in)

F. Width at floor between wheel wells: 1,219.4 mm (48 in)

**Wheel Well Clearance****Cutaway Side View — RH**

AAZIA0175ZZ

**NOTE:****View from inside of vehicle.**

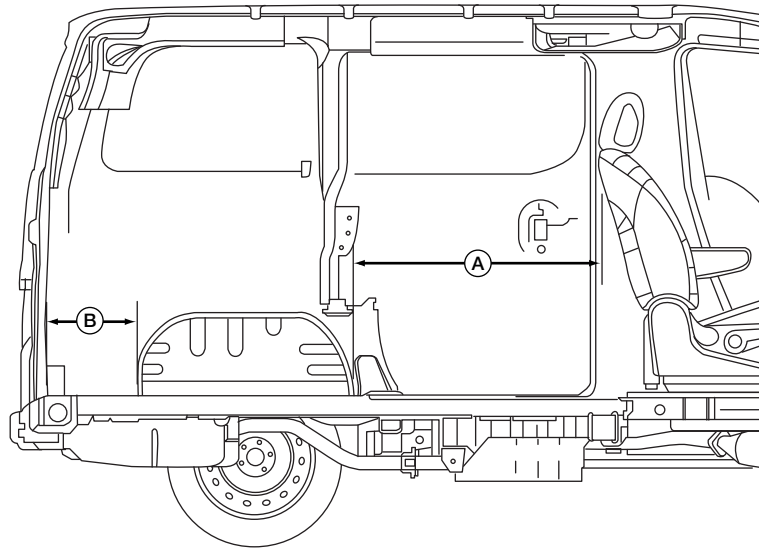
A. Seat position:

- rear-most: 856 mm (33.7 in)
- center: 952 mm (37.5 in)
- front-most: 1,096 mm (43.15 in)

B. 296 mm (11.65 in)



## Cutaway Side View — LH



AAZIA0150ZZ

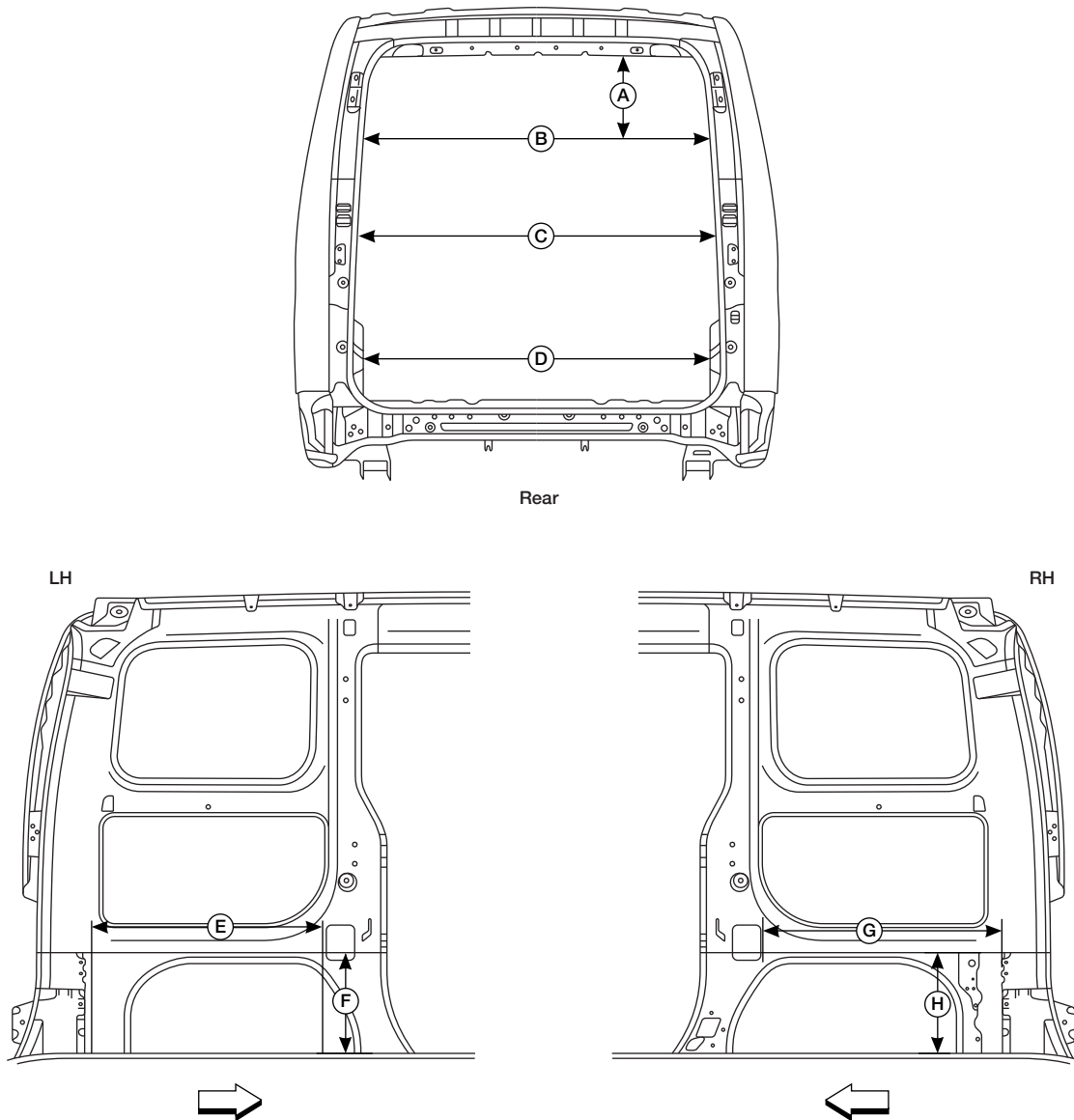
**NOTE:****View from inside of vehicle.**

A. Seat position:

- rear-most: 856 mm (33.7 in)
- center: 952 mm (37.5 in)
- front-most: 1,096 mm (43.15 in)

B. 296 mm (11.65 in)

## Cutaway Wheel Well and Rear Views



AAZIA0296GB

↩: Front of vehicle.

A. 261.8 mm (10.3 in)

D. 1,260 mm (49.6 in)

G. 785 mm (30.9 in)

B. 1,175 mm (46.3 in)

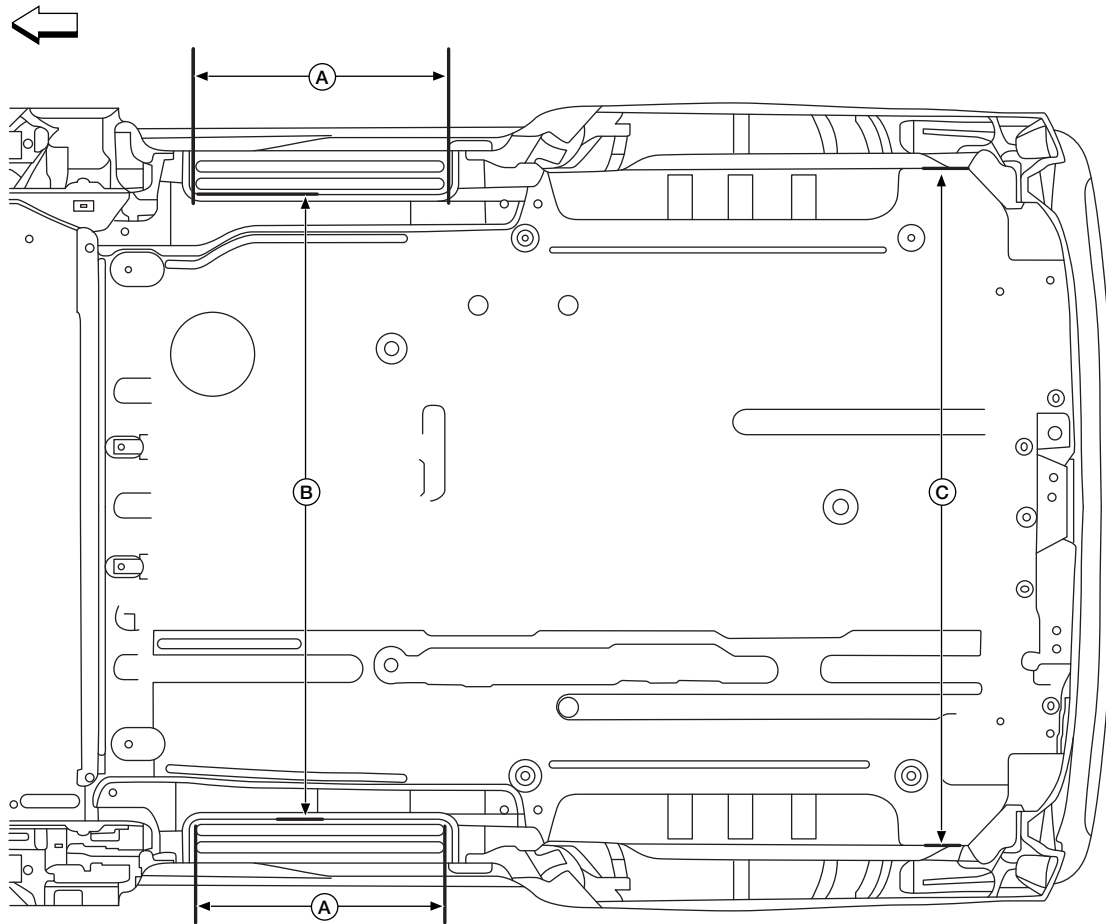
E. 725 mm (28.5 in)

H. 288 mm (11.3 in)

C. 1,250 mm (49.2 in)

F. 271 mm (10.6 in)

## Cutaway Overhead View



AAZIA0228ZZ

↖ : Front of vehicle

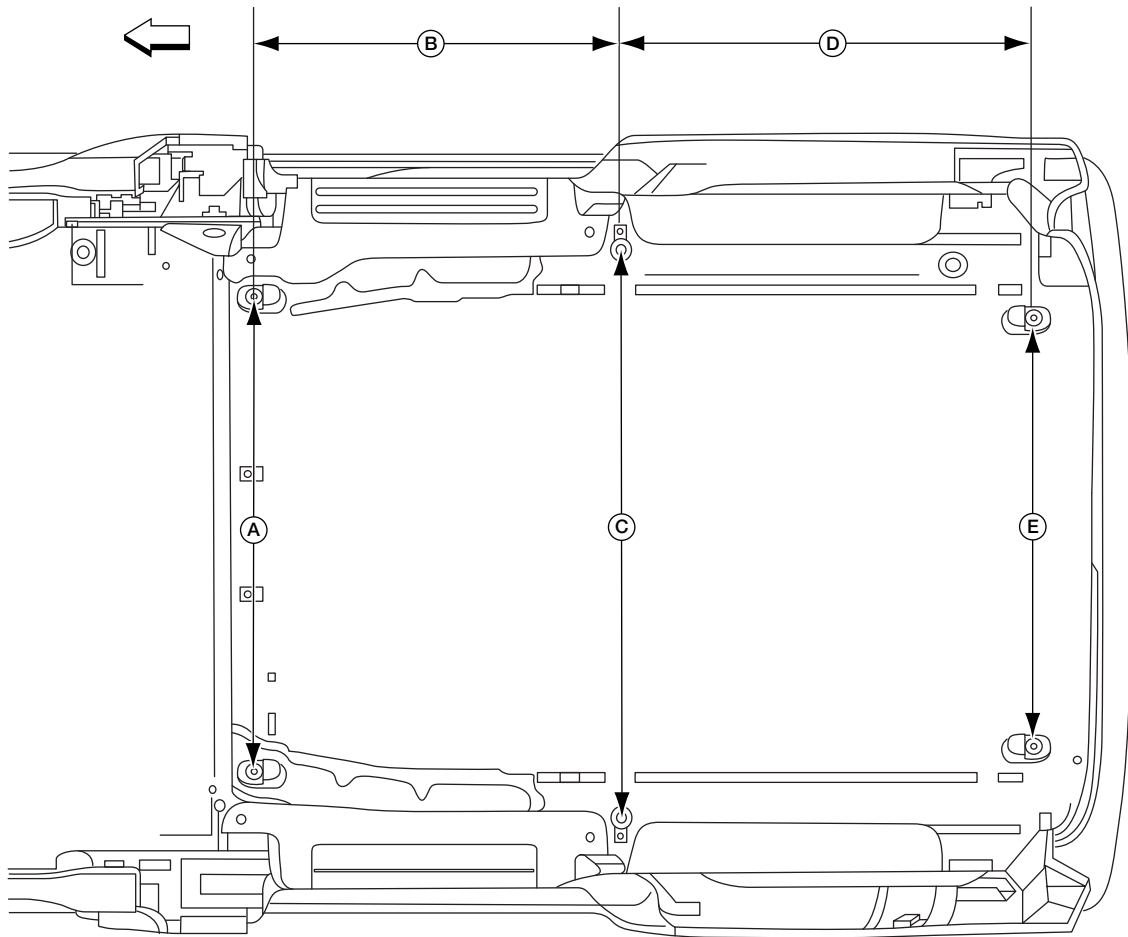
A. 570 mm (22.4 in)

B. 1,323 mm (52.1 in)

C. 1,432 mm (56.4 in)

## D-Ring Tie-Downs (If Equipped)

## Cutaway Overhead View



AAZIA0229ZZ

**WARNING:**

**Do not exceed the maximum single D-ring tie down loading of 890N (200 lbs).**

←: Front of vehicle.

\* D-ring tie down location.

A. 1,005 mm (39.6 in)

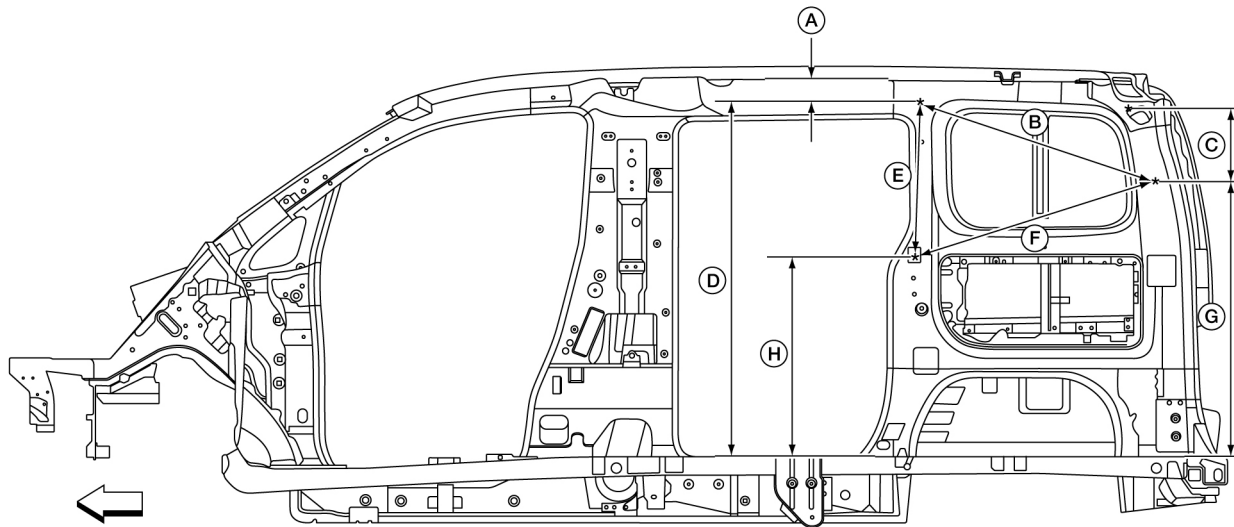
B. 845 mm (33.3 in)

C. 1,275 mm (50.2 in)

D. 817 mm (32.2 in)

E. 1,138 mm (44.8 in)

## Cutaway Passenger Side View — Starting with 2020 Model Year



TGAAZIA0079ZZ

**WARNING:**

- The objects must be secured to the mounting D-rings on the vehicle floor first (if equipped). The purpose of the sidewall D-rings is only to prevent transported objects from moving.
- In cases where floor D-rings are not equipped, do not apply a total load more than 475N (107 lbs) to a single side wall D-ring when securing cargo.

←: Front of vehicle.

\* D-ring tie down location.

A. 72.5 mm (2.9 in) From roof metal to D-ring

B. 885.2 mm (34.9 in)

C. 252.4 mm (9.9 in) From back pillar inner upper metal to D-ring

D. 1,252.7 mm (49.3 in) From metal floor to D-ring

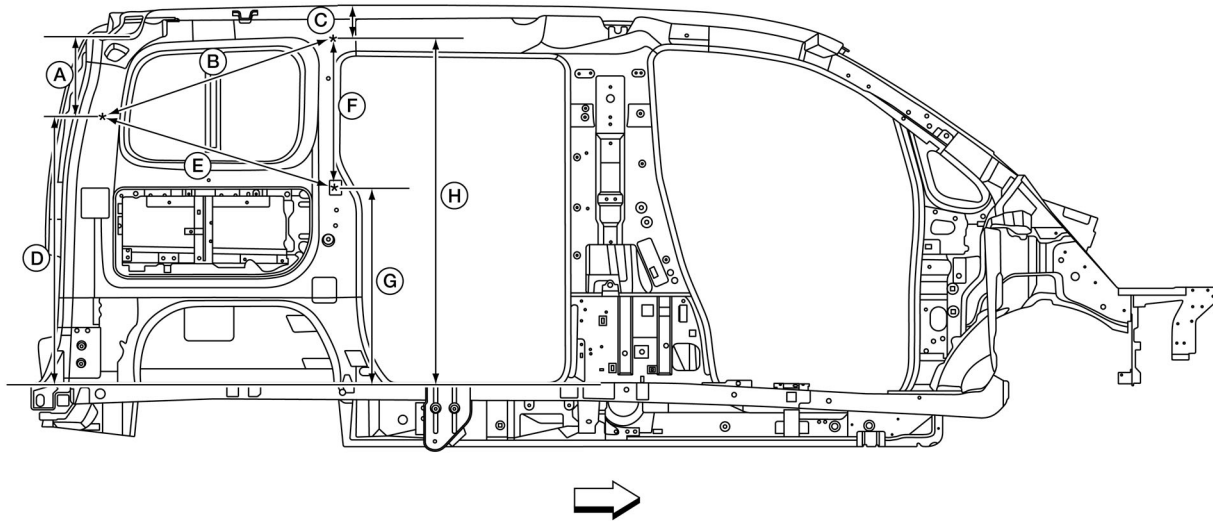
E. 555.9 mm (21.9 in)

F. 895.4 mm (35.3 in)

G. 961.38 mm (37.9 in) From metal floor to D-ring

H. 706.8 mm (27.8 in) From metal floor to D-ring

## Cutaway Driver Side View — Starting with 2020 Model Year



TGAAZIA0078ZZ

**WARNING:**

- The objects must be secured to the mounting D-rings on the vehicle floor first (if equipped). The purpose of the sidewall D-rings is only to prevent transported objects from moving.
- In cases where floor D-rings are not equipped, do not apply a total load more than 475N (107 lbs) to a single side wall D-ring when securing cargo.

←: Front of vehicle.

\* D-ring tie down location.

A. 252.4 mm (9.9 in) From back pillar inner upper metal to D-ring

B. 885.2 mm (34.9 in)

C. 72.5 mm (2.9 in) From roof metal to D-ring

D. 961.38 mm (37.9 in) From metal floor to D-ring

E. 895.4 mm (35.3 in)

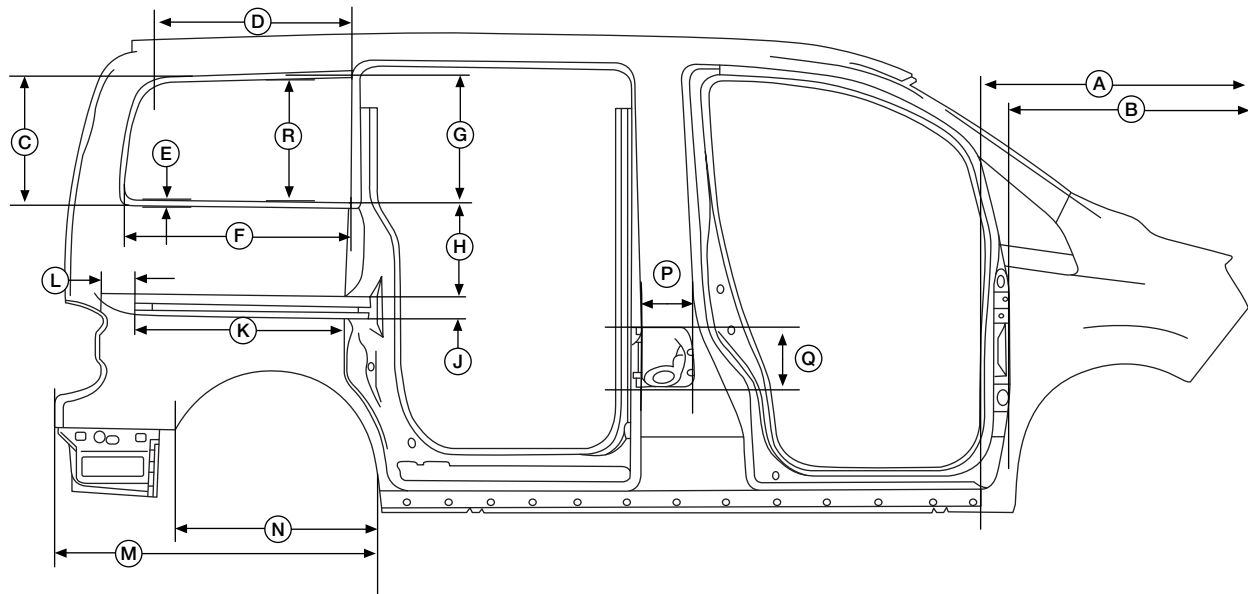
F. 555.9 mm (21.9 in)

G. 706.8 mm (27.8 in) From metal floor to D-ring

H. 1,252.7 mm (49.3 in) From metal floor to D-ring

## SIGN AREA

## RH Exterior Dimensions



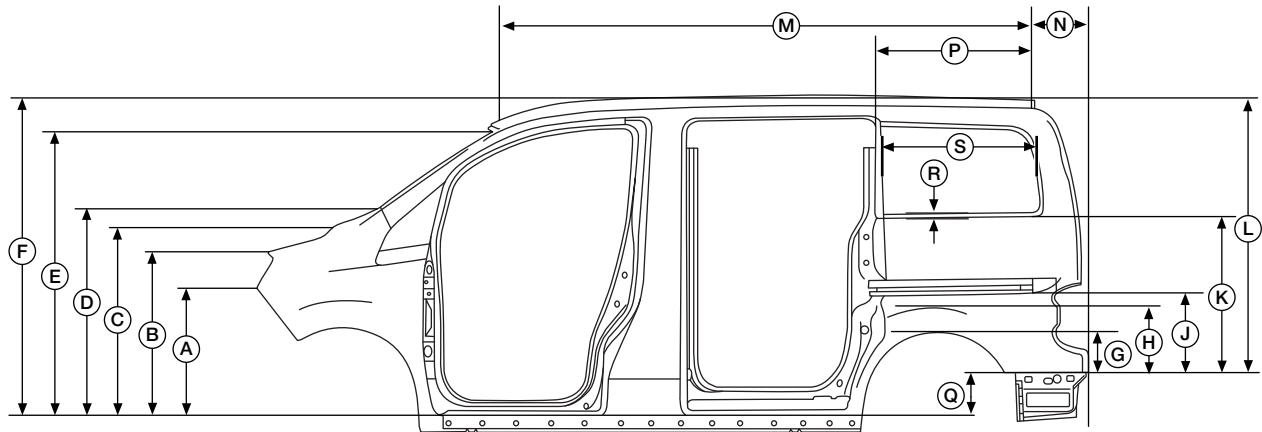
AAZIA0151ZZ

A. 918 mm (36.1 in)  
 D. 713 mm (28.1 in)  
 G. 450 mm (17.7 in)  
 K. 723 mm (28.5 in)  
 N. 693 mm (27.3 in)  
 R. 440 mm (17.3 in)

B. 825 mm (32.5 in)  
 E. Inset depth: 18 mm (0.7 in)  
 H. 300 mm (11.8 in)  
 L. 114 mm (4.5 in)  
 P. 180 mm (7.1 in)

C. 408 mm (16.1 in)  
 F. 781 mm (30.7 in)  
 J. 81 mm (3.2 in)  
 M. 1,115 mm (43.9 in)  
 Q. 210 mm (8.3 in)

## LH Exterior Dimensions



AAZIA0165ZZ

A. 674 mm (26.5 in)

D. 1,059 mm (41.7 in)

G. 210 mm (8.3 in)

K. 760 mm (29.9 in)

N. 250 mm (9.8 in)

R. Inset depth: 18 mm (0.7)

B. 836 mm (32.9 in)

E. 1,429 mm (56.3 in)

H. 322 mm (12.7 in)

L. 1,330 mm (52.4 in)

P. 785 mm (30.9 in)

S. 783 mm (30.8 in)

C. 987 mm (38.9 in)

F. 1,587 mm (62.5 in)

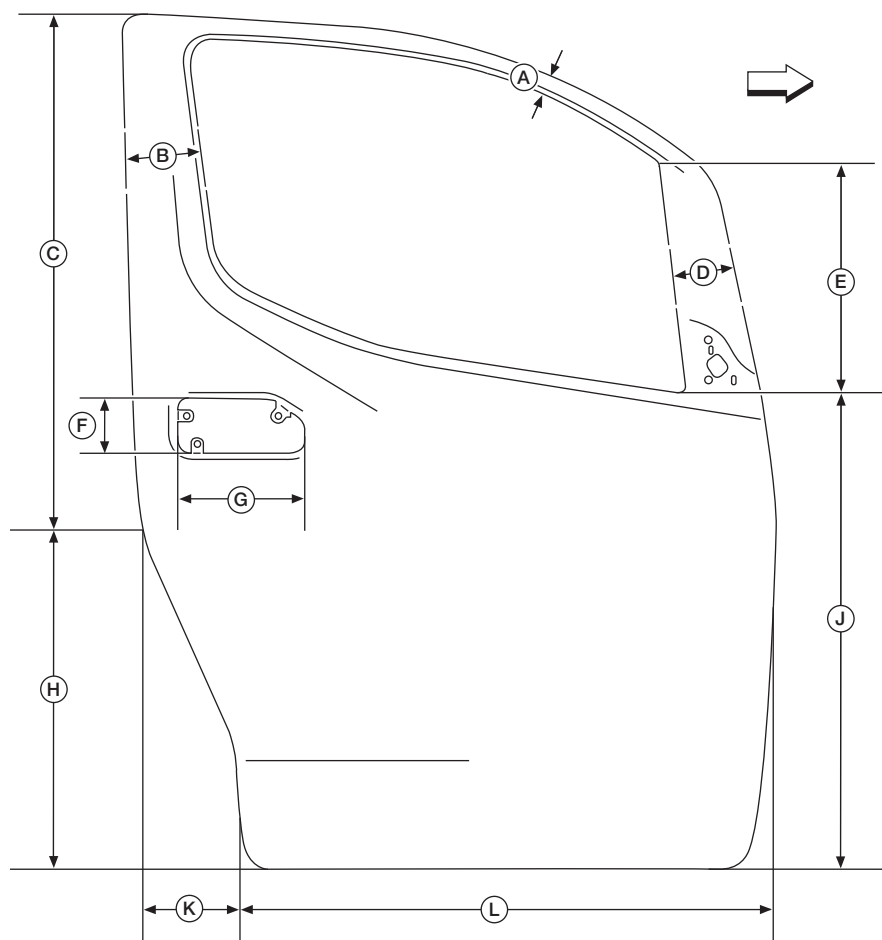
J. 383 mm (15.1 in)

M. 2,670 mm (105.1 in)

Q. 258 mm (10.2 in)



## RH Front Door Exterior Dimensions



AAZIA0594ZZ

 : Front of vehicle.

A. 35.0 mm (1.38 in)

B. 132.2 mm (5.20 in)

C. 867.2 mm (34.14 in)

D. 104.7 mm (4.12 in)

E. 384.5 mm (15.14 in)

F. 92.6 mm (3.65 in)

G. 211.4 mm (8.32 in)

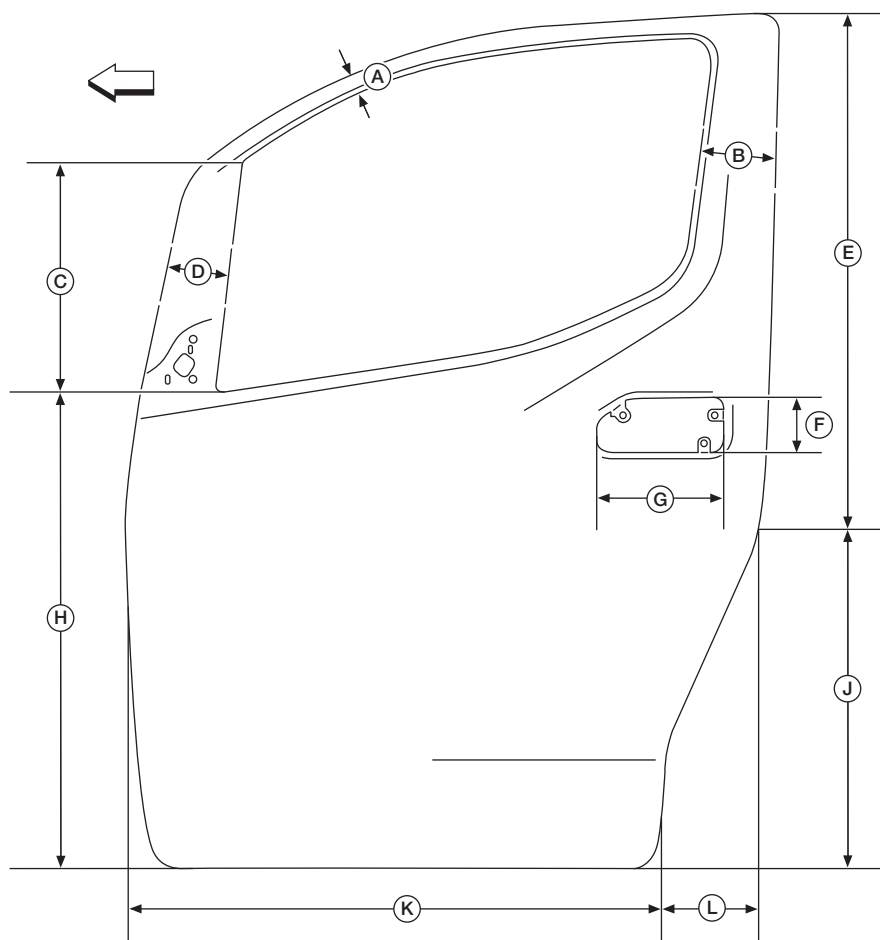
H. 546.2 mm (21.50 in)

J. 788.0 mm (31.02 in)

K. 156.3 mm (6.15 in)

L. 896.5 mm (35.30 in)

## LH Front Door Exterior Dimensions



AAZIA0593ZZ

↖ : Front of vehicle.

A. 35.0 mm (1.38 in)

B. 132.2 mm (5.20 in)

C. 384.5 mm (15.14 in)

D. 104.7 mm (4.12 in)

E. 867.2 mm (34.14 in)

F. 92.6 mm (3.65 in)

G. 211.4 mm (8.32 in)

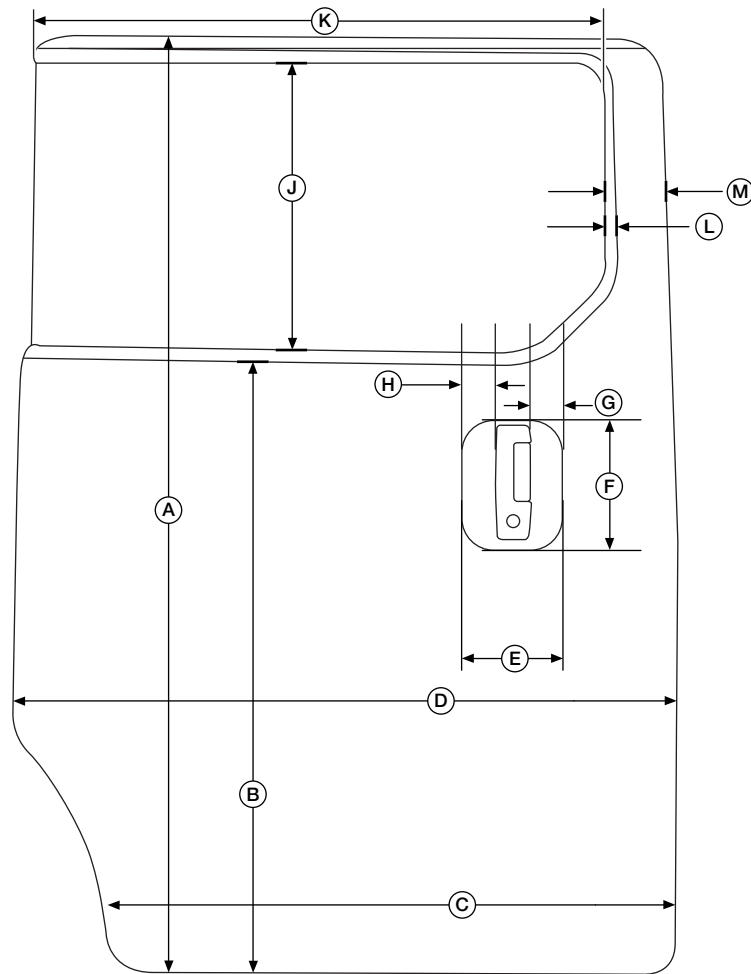
H. 788.0 mm (31.02 in)

J. 546.2 mm (21.50 in)

K. 896.6 mm (34.30 in)

L. 156.3 mm (6.15 in)

## RH Slide Door Exterior Dimensions



AAZIA0166ZZ

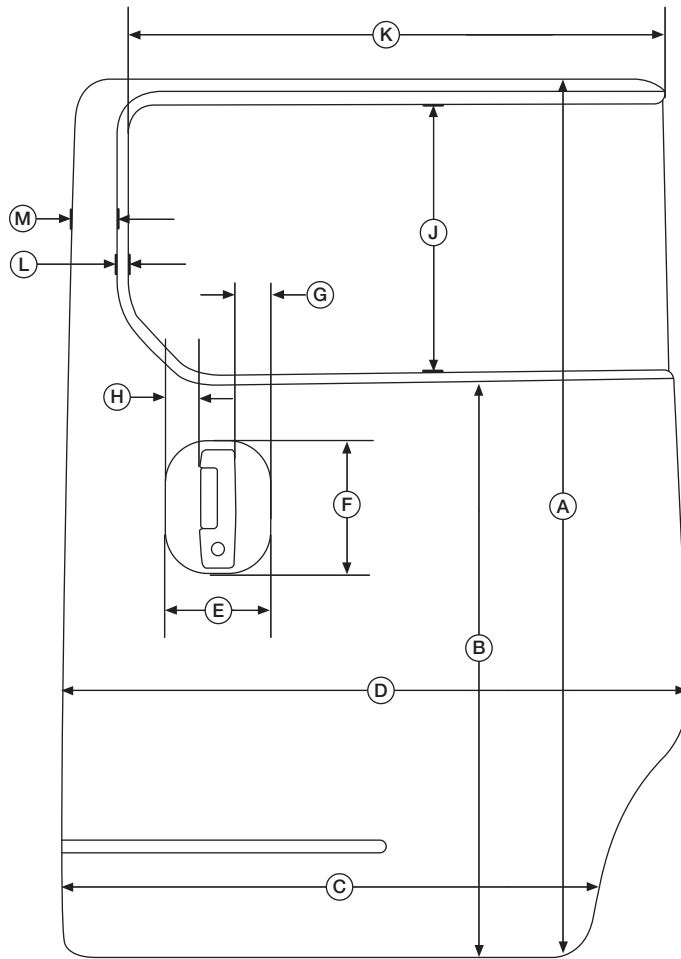
**Without Glass**

A. 1,450 mm (57.1 in)	B. 941 mm (37.0 in)	C. 858 mm (33.8 in)
D. 1,002 mm (39.4 in)	E. 165 mm (6.5 in)	F. 200 mm (7.9 in)
G. Inset depth: 27 mm (1.1 in)	H. Inset depth: 27 mm (1.1 in)	J. 450 mm (17.7 in)
K. 870 mm (34.3 in)	L. Inset depth: 14 mm (0.6 in)	M. 75 mm (3.0 in)

**With Glass**

A. 1,450 mm (57.1 in)	B. 941 mm (37.0 in)	C. 858 mm (33.8 in)
D. 1,002 mm (39.4 in)	E. 165 mm (6.5 in)	F. 200 mm (7.9 in)
G. Inset depth: 27 mm (1.1 in)	H. Inset depth: 27 mm (1.1 in)	J. 452 mm (17.8 in)
K. 874 mm (34.4 in)	L. Inset depth: 14 mm (0.6 in)	M. 86 mm (3.4 in)

## LH Slide Door Exterior Dimensions



AAZIA0176ZZ

A. 1,450 mm (57.1 in)

D. 1,002 mm (39.4 in)

G. Inset depth: 27 mm (1.1 in)

K. 870 mm (34.3 in)

B. 941 mm (37.0 in)

E. 165 mm (6.5 in)

H. Inset depth: 27 mm (1.1 in)

L. Inset depth: 14 mm (0.6 in)

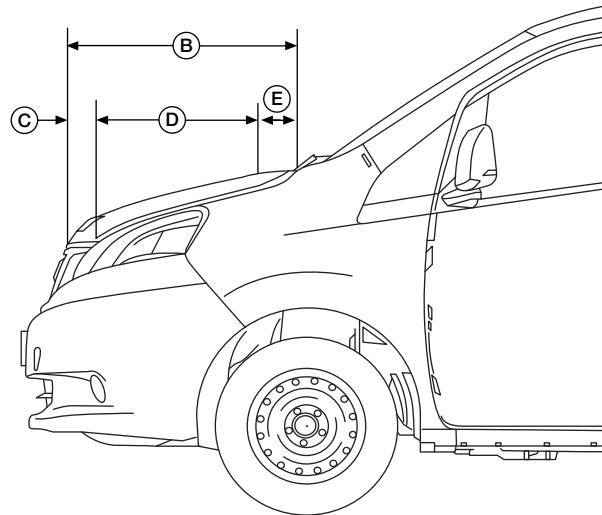
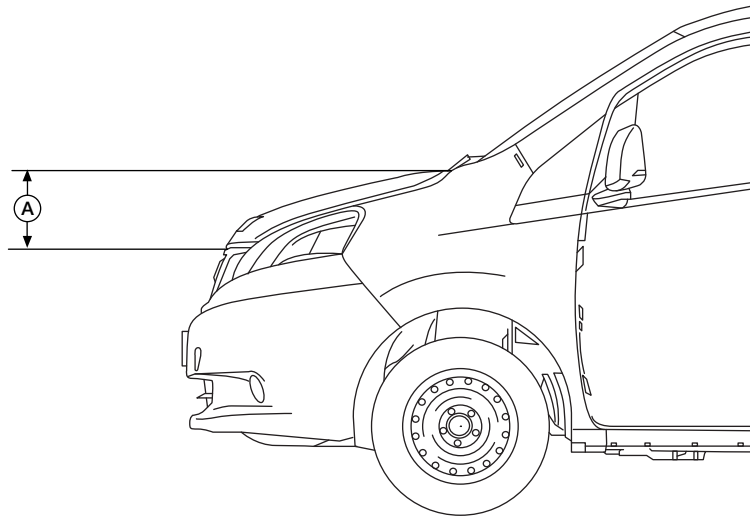
C. 858 mm (33.8 in)

F. 200 mm (7.9 in)

J. 450 mm (17.7 in)

M. 75 mm (3.0 in)

## Hood Surface Exterior Dimensions

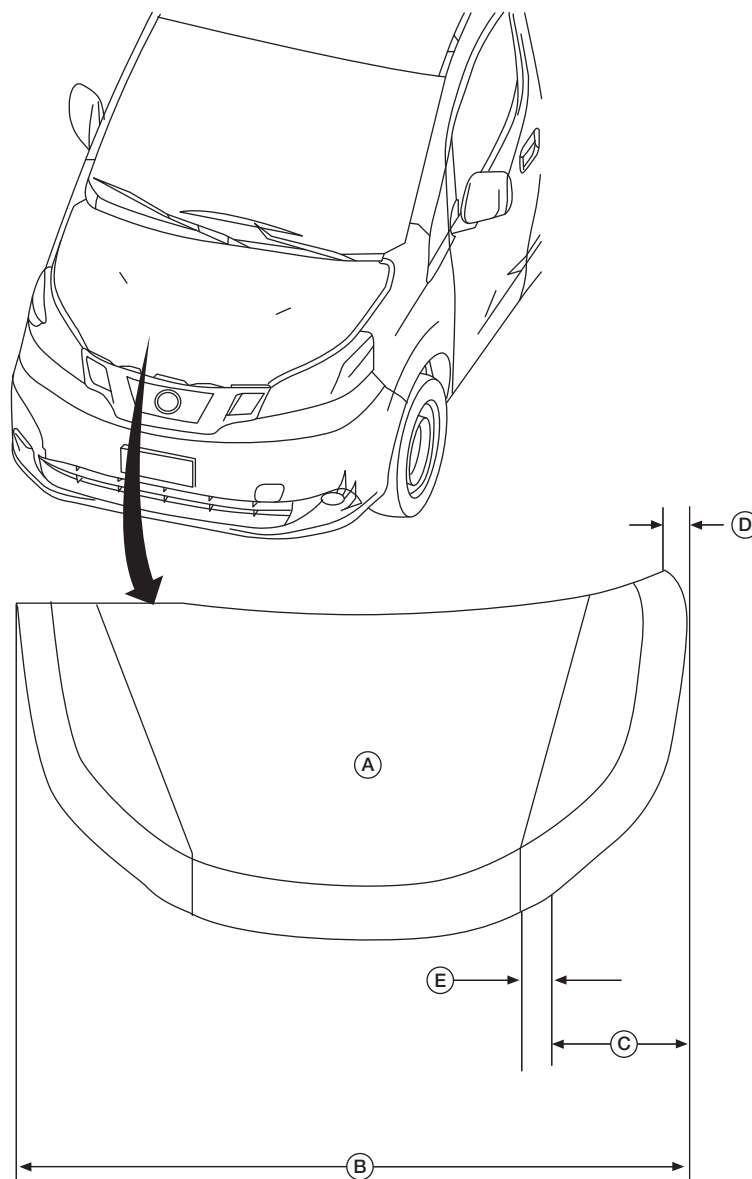


AAZIA0167ZZ

A. 275 mm (10.8 in)  
D. 568 mm (22.4 in)

B. 745 mm (29.3 in)  
E. 80 mm (3.1 in)

C. 120 mm (4.7 in)



AAZIA0168ZZ

A. Flat surface area: 1.026 m<sup>2</sup>  
(1,590 in<sup>2</sup>)

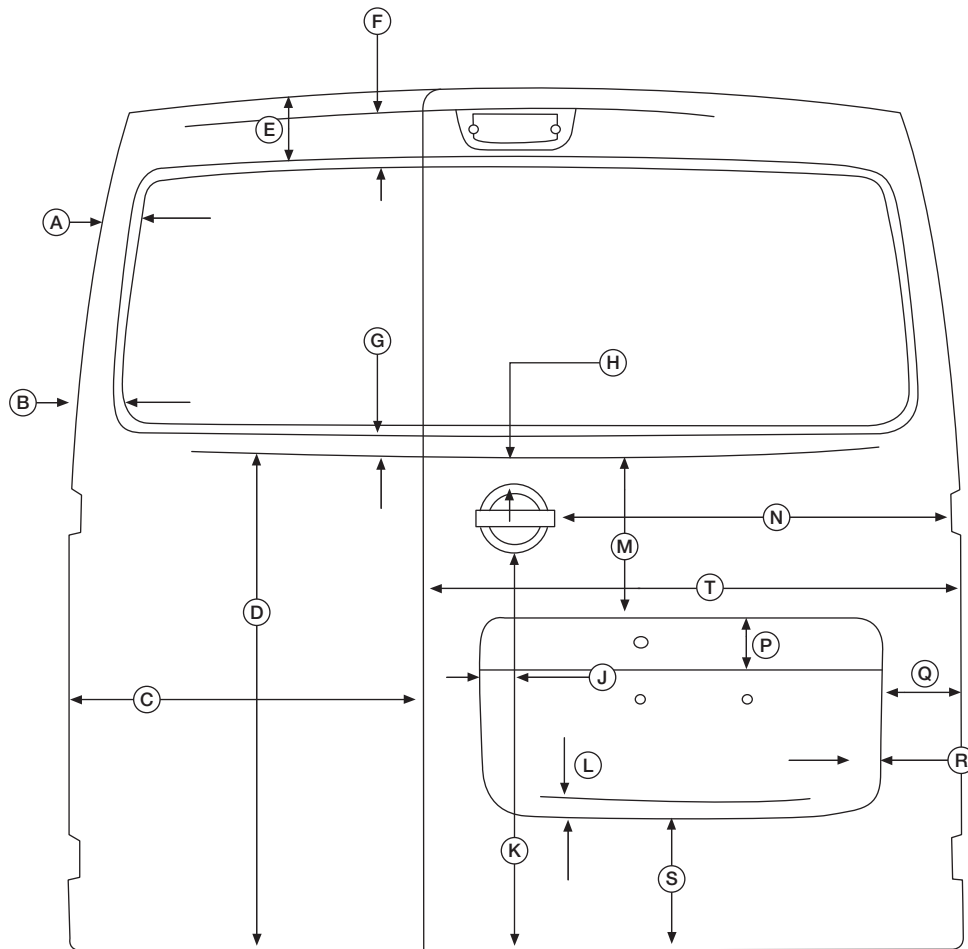
B. 1,479 mm (58.2 in)

C. 310 mm (12.2 in)

D. 55 mm (2.2 in)

E. 140 mm (5.5 in)

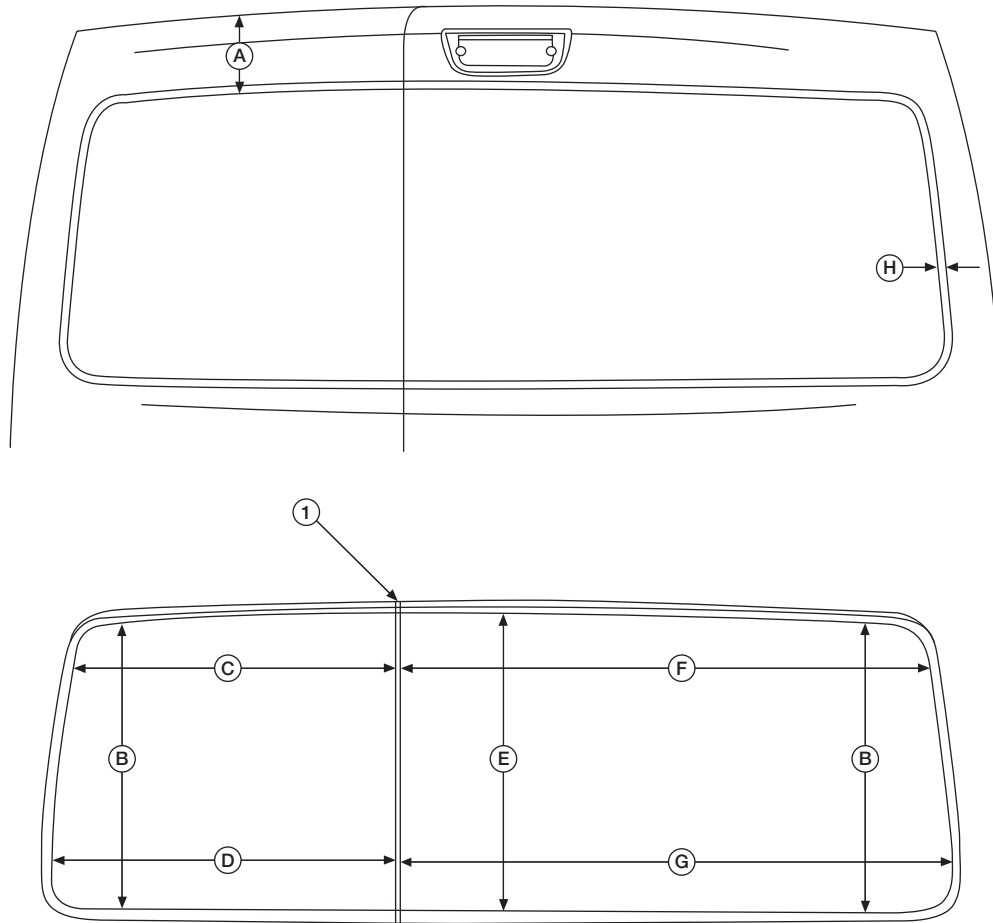
## Back Door Sign Area



AAZIA0169ZZ

A. 50 mm (2.0 in)	B. 61 mm (2.4 in)	C. 580 mm (22.8 in)
D. 796 mm (31.3 in)	E. 128 mm (5.0 in)	F. 75 mm (3.0 in)
G. 36 mm (1.4 in)	H. 54 mm (2.1 in)	J. 70 mm (2.8 in)
K. 628 mm (24.7 in)	L. 30 mm (1.2 in)	M. 255 mm (10.0 in)
N. 643 mm (25.3 in)	P. 77 mm (3.0 in)	Q. 130 mm (5.1 in)
R. 38 mm (1.5 in)	S. 213 mm (8.4 in)	T. 875 mm (34.4 in)
U. 445 mm (17.5 in)		

## Back Door Window Opening Sign Area



AAZIA0170ZZ

1. Door gap seam  
 C. 455 mm (17.9 in)  
 F. 750 mm (29.5 in)

A. 128 mm (5.0 in)  
 D. 488 mm (19.2 in)  
 G. 782 mm (30.8)

B. 426 mm (16.8 in)  
 E. 438 mm (17.2 in)  
 H. Inset depth: 11 mm (0.4 in)

**PLACARDS**

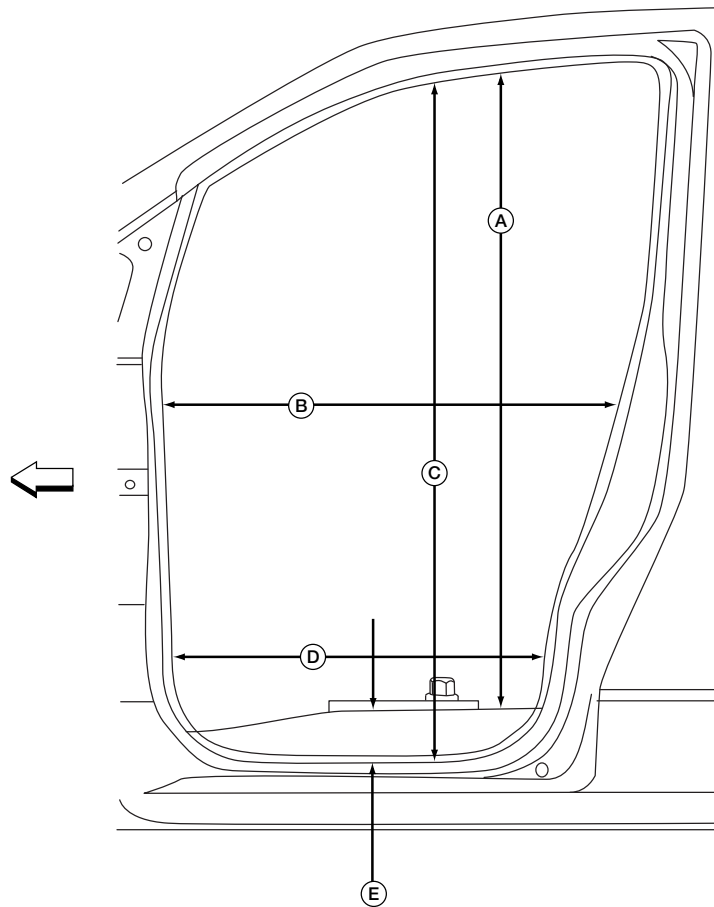
To find information and regulations about the placards, refer to the following website:

[www.fmcsa.dot.gov](http://www.fmcsa.dot.gov)



## EXTERIOR

## Front Door Opening Measurements



AAZIA0230ZZ

←: Front of vehicle.

**Without Door Seal and Interior Trim**

A. 1,191 mm (46.9 in)

B. 870 mm (34.3 in)

C. 1,278 mm (50.3 in)

D. 715 mm (28.1 in)

E. 88 mm (3.5 in)

**With Door Seal and Interior Trim**

A. 1,188 mm (46.8 in)

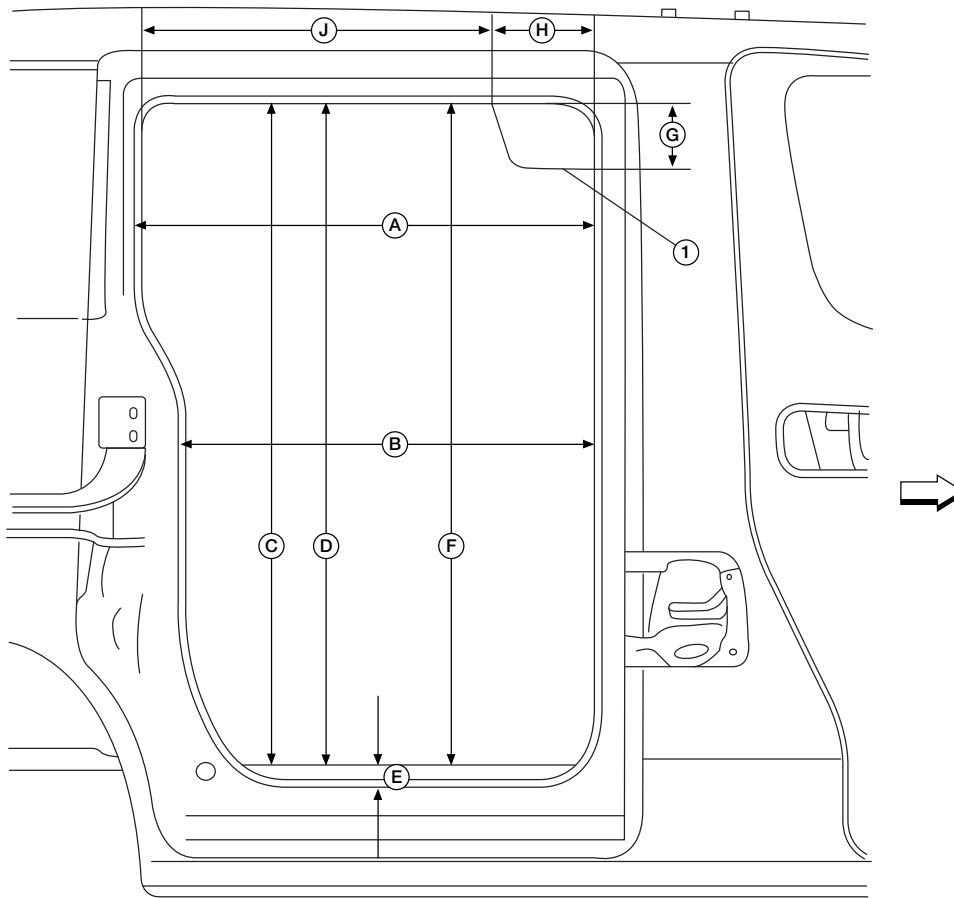
B. 863 mm (34.0 in)

C. 1,264 mm (49.8 in)

D. 706 mm (27.8 in)

E. 78 mm (3.1 in)

## RH Slide Door Opening Measurements — Without Slide Door Installed



AAZIA0187ZZ

← : Front of vehicle.

**Without Door Seal and Interior Trim**

A. 818 mm (32.2 in)

B. 735 mm (28.9 in)

C. 1,181 mm (46.5 in)

D. 1,181 mm (46.5 in)

E. 27 mm (1.06 in)

F. 1,181 mm (46.5 in)

**With Door Seal and Interior Trim**

1. Headlining

A. 812 mm (32.0 in)

B. 728 mm (28.7 in)

C. 1,168 mm (46.0 in)

D. 1,168 mm (46.0 in)

E. 35 mm (1.37 in)

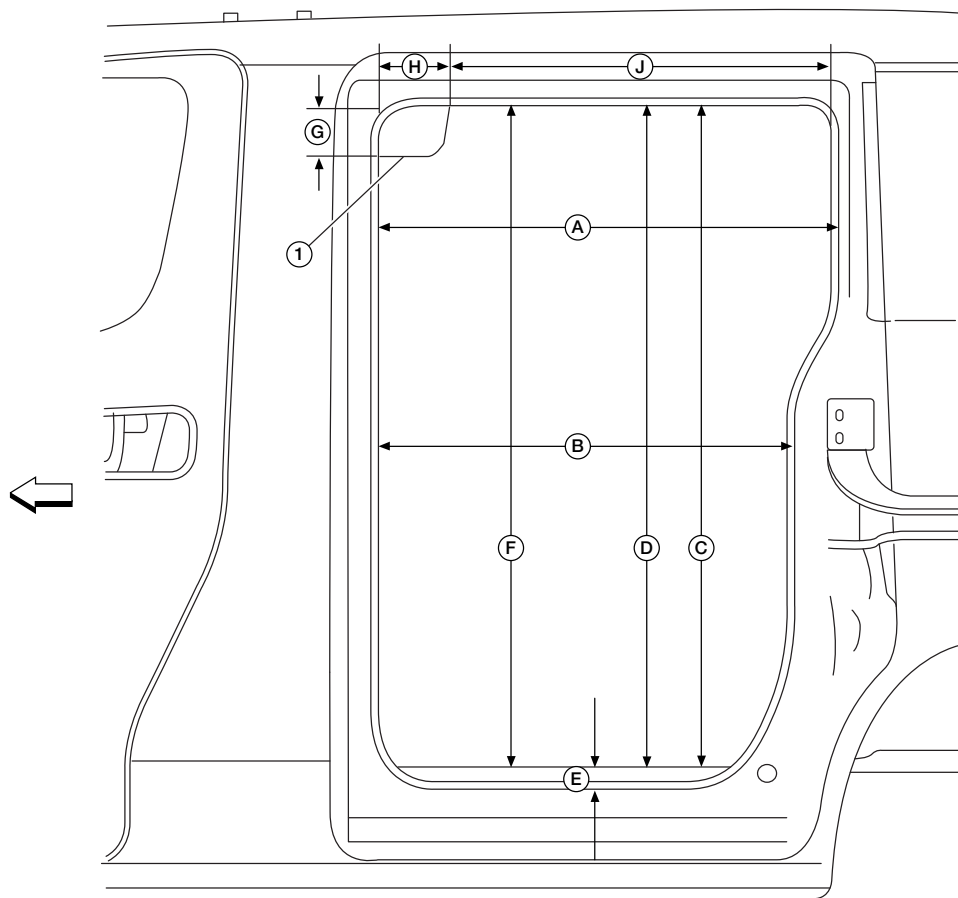
F. 1,168 mm (46.0 in)

G. 22 mm (0.9 in)

H. 190 mm (7.5 in)

J. 617 mm (24.3 in)

## LH Slide Door Opening Measurements — Without Slide Door Installed



AAZIA0186ZZ

← : Front of vehicle.

**Without Door Seal and Interior Trim**

A. 818 mm (32.2 in)

B. 735 mm (28.9 in)

C. 1,181 mm (46.5 in)

D. 1,181 mm (46.5 in)

E. 27 mm (1.06 in)

F. 1,181 mm (46.5 in)

**With Door Seal and Interior Trim**

1. Headlining

A. 812 mm (32.0 in)

B. 728 mm (28.7 in)

C. 1,168 mm (46.0 in)

D. 1,168 mm (46.0 in)

E. 35 mm (1.37 in)

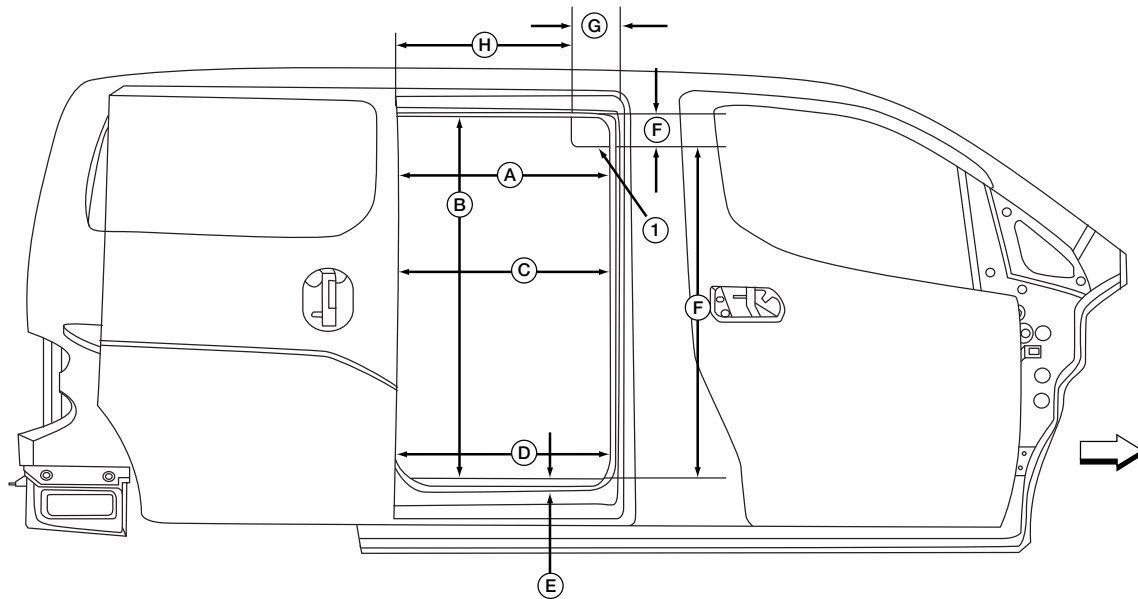
F. 1,168 mm (46.0 in)

G. 22 mm (0.9 in)

H. 190 mm (7.5 in)

J. 617 mm (24.3 in)

## RH Slide Door Opening Measurements — With Slide Door Installed



AAZIA0185ZZ

← : Front of vehicle.

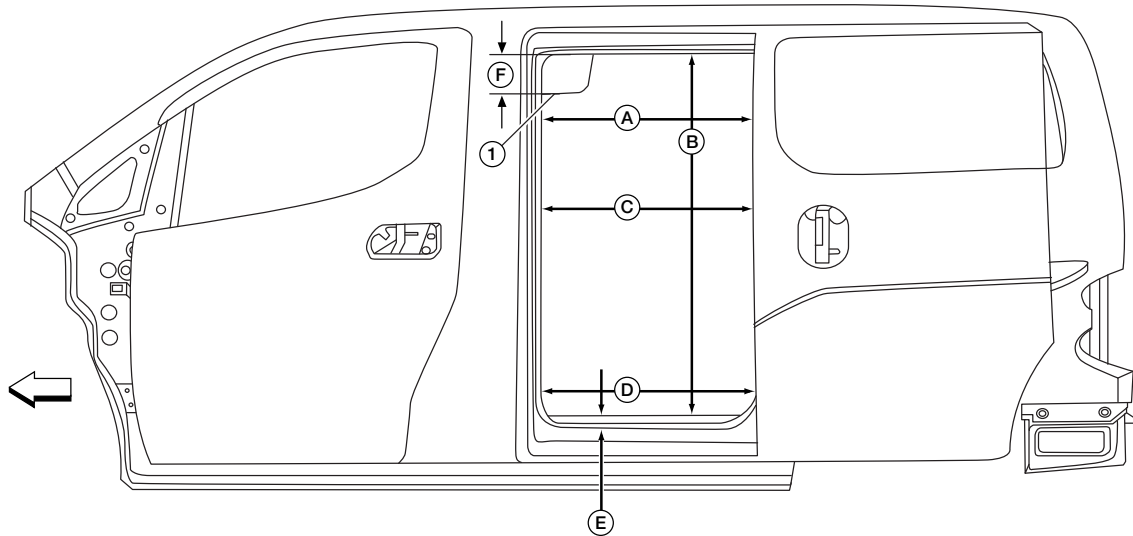
**Without Door Seal and Interior Trim**

A. 623 mm (24.5 in)	B. 1,181 mm (46.5 in)	C. 622 mm (24.5 in)
D. 624 mm (24.6 in)	E. 27 mm (1.06 in)	

**With Door Seal and Interior Trim**

1. Headlining	A. 620 mm (24.4 in)	B. 1,168 mm (46.0 in)
C. 620 mm (24.4 in)	D. 622 mm (24.5 in)	E. 35 mm (1.37 in)
F. 22 mm (0.9 in)	G. 196 mm (7.7 in)	H. 613 mm (24.1 in)

## LH Slide Door Opening Measurements — With Slide Door Installed



AAZIA0232ZZ

↩: Front of vehicle.

**Without Door Seal and Interior Trim**

A. 623 mm (24.5 in)

B. 1,181 mm (46.5 in)

C. 622 mm (24.5 in)

D. 624 mm (24.6 in)

E. 27 mm (1.06 in)

**With Door Seal and Interior Trim**

1. Headlining

A. 620 mm (24.4 in)

B. 1,168 mm (46.0 in)

C. 620 mm (24.4 in)

D. 622 mm (24.5 in)

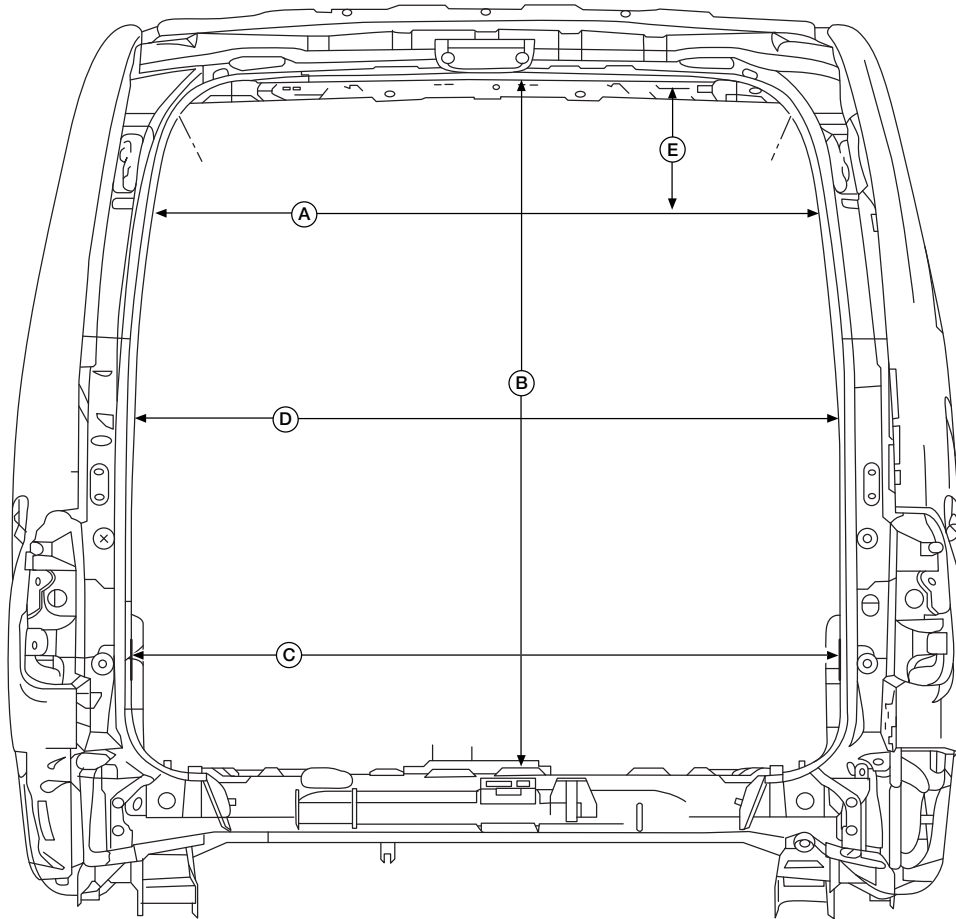
E. 35 mm (1.37 in)

F. 22 mm (0.9 in)

G. 196 mm (7.7 in)

H. 613 mm (24.1 in)

## Back Door Opening Measurements



AAZIA0171ZZ

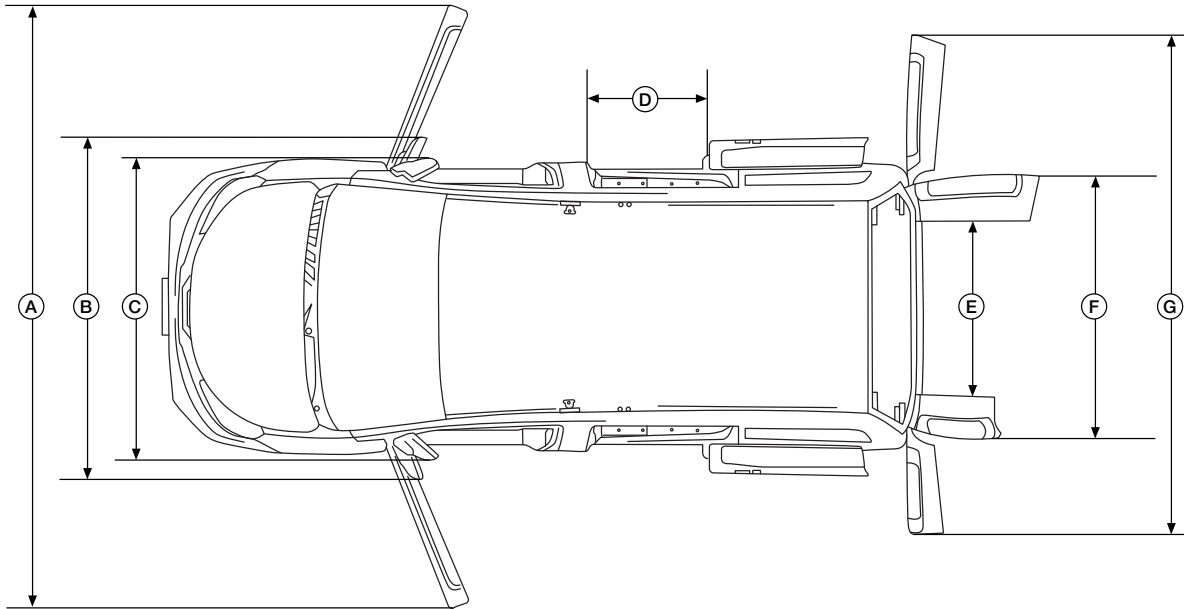
A. 1,175 mm (46.3 in)

B. 1,238 mm (48.75 in)

C. 1,260 mm (49.6 in)

D. 1,250 mm (49.2 in)

E. 193 mm (7.6 in)

**Doors and Mirrors Dimensions  
Overhead View**

AAZIA0172ZZ

A. 3,523 mm (138.7 in)

B. With Mirrors Unfolded: 2,010 mm (79.1 in)

C. With Mirrors Folded: 1,856 mm (73.1 in)

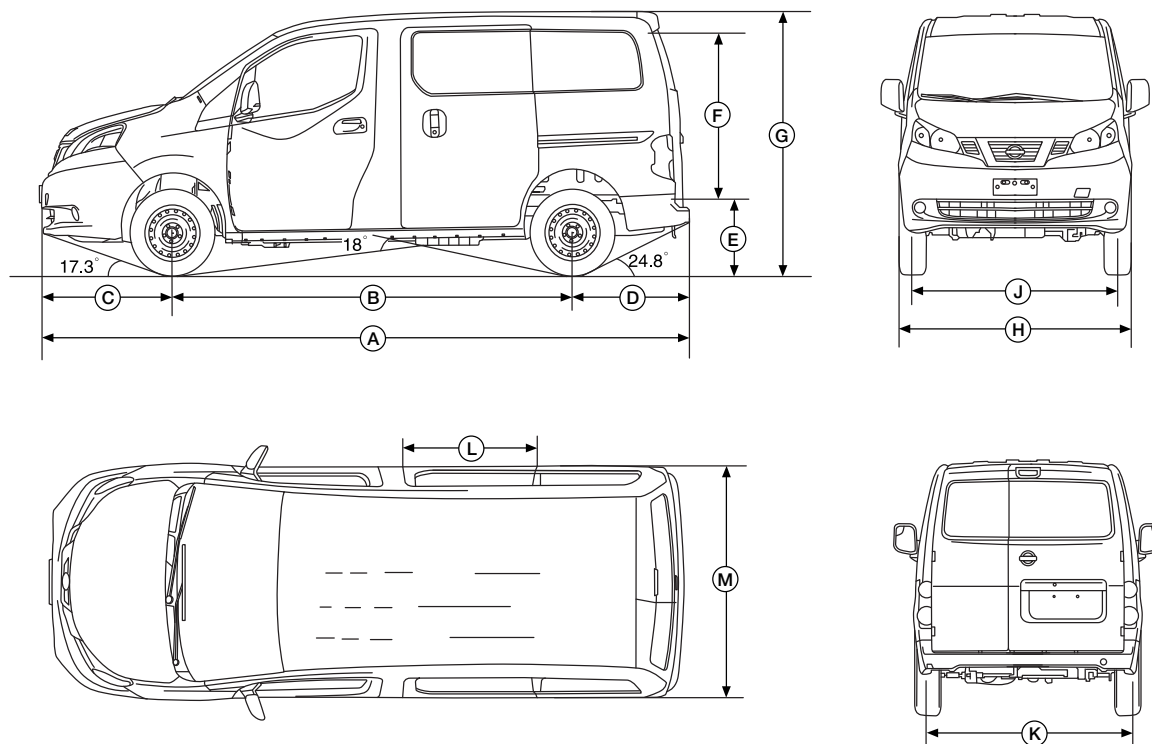
D. 671 mm (26.4 in)

E. 1,019 mm (40.1 in)

F. 1,537 mm (60.5 in)

G. 2,919 mm (114.9 in)

### Exterior Overall Dimensions



AAZIA0173ZZ

A. 4,732.5 mm (186.3 in)

D. 839.3 mm (33 in)

G. 1,871.7 mm [(73.7 in) 2013–2019 model years]  
1866.7 mm [(73.5 in) 2020 model year]

K. 1,520 mm (59.8 in)

B. 2,925 mm (115.2 in)

E. 535.7 mm (21 in)

H. Between front fender outboard edges: 1,729.5 mm (68.1 in)

L. 996.6 mm (39.2 in)

C. 968.2 mm (38.1 in)

F. 1,226.7 mm (48.3 in)

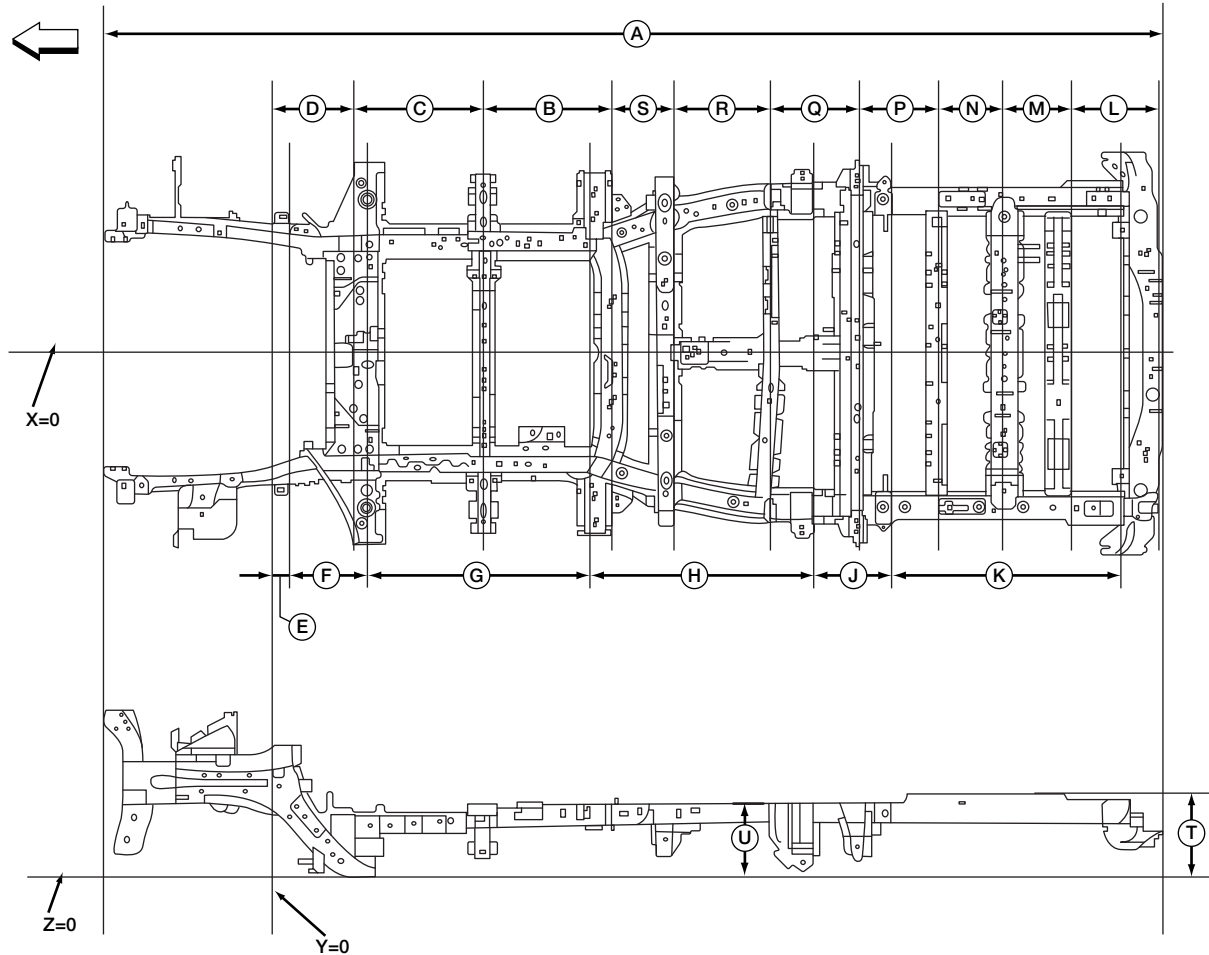
J. 1,525 mm (60 in)

M. 1,710 mm (67.32 in)



## UNIBODY AND FRAME

## Crossmember and Body Mount Dimensions



AAZIA0219ZZ

: Front of vehicle

A. 4,311.65 mm (169.75 in)

D. 376.94 mm (14.84 in)

G. 472.97 mm (18.6 in)

K. 909.28 mm (35.8 in)

N. 272.91 mm (10.75 in)

R. 442.02 mm (17.4 in)

U. 268.69 mm (10.6 in)

B. 520 mm (20.5 in)

E. 68.14 mm (2.68 in)

H. 844.21 mm (33.23 in)

L. 383.22 mm (15.08 in)

P. 326.32 mm (12.85 in)

S. 220.01 mm (8.66 in)

C. 508.05 mm (20 in)

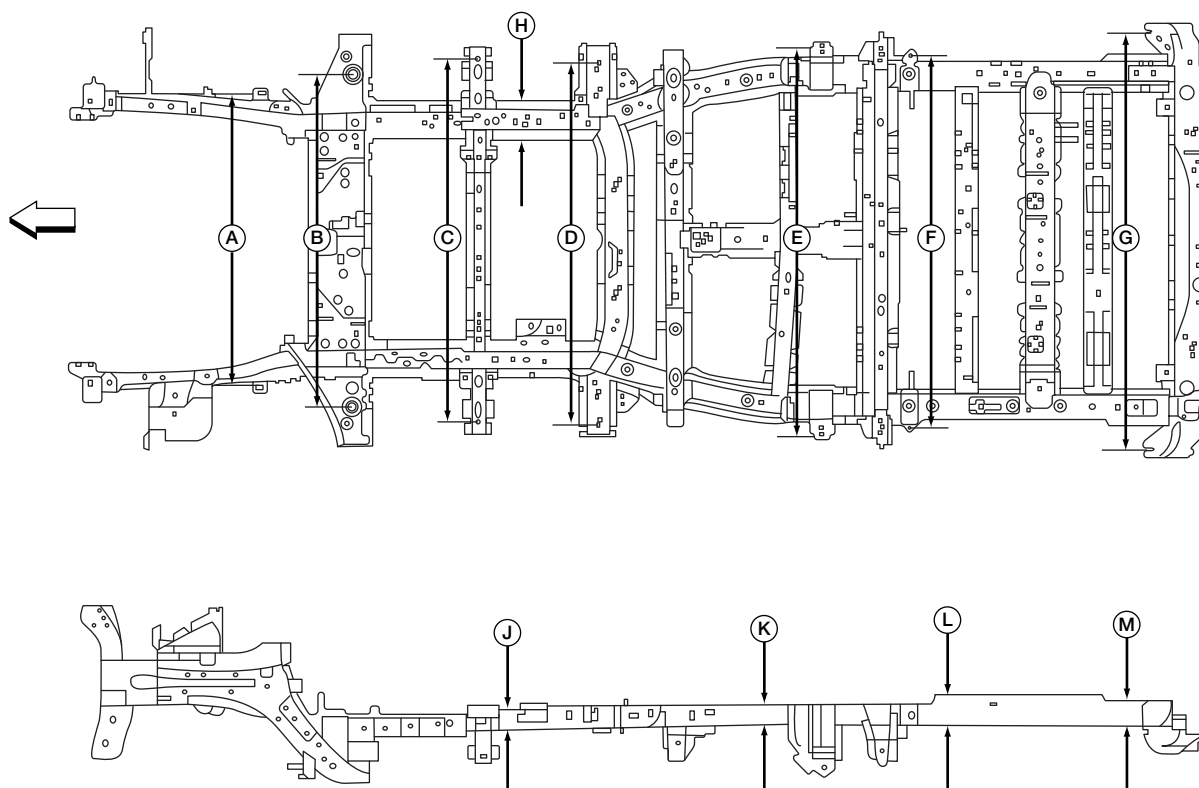
F. 343.87 mm (13.5 in)

J. 329.36 mm (12.9 in)

M. 220.22 mm (8.67 in)

Q. 339.07 mm (13.35 in)

T. 305.8 mm (12 in)



AAZIA0231ZZ

**NOTE:****Floor sheet metal removed for clarity.**

: Front of vehicle.

A. 1,009 mm (39.7 in)

B. 1,134 mm (44.6 in)

C. 1,250 mm (49.2 in)

D. 1,225 mm (48.2 in)

E. 1,331 mm (52.4 in)

F. 1,275.4 mm (50.2 in)

G. 1,428 mm (56.2 in)

H. 70.22 mm (2.7 in)

J. 69.74 mm (2.74 in)

K. 71.46 mm (2.8 in)

L. 96.96 mm (3.8 in)

M. 91.31 mm (3.6 in)

# ELECTRICAL

## SELF-TEST MODE

This vehicle is capable of performing a function test of various systems on the vehicle.

To enter the Self-Test Mode

1. Close the hood and front door RH, and lift the wiper arms from the windshield (to prevent windshield damage due to wiper operation).

**NOTE:**

**When this test mode is performed with hood opened, sprinkle water on windshield beforehand.**

2. Turn the ignition switch OFF.
3. Turn the ignition switch ON, and within 20 seconds, press the driver door switch more than 20 times. Then turn the ignition switch OFF.
4. Turn the ignition switch ON within 10 seconds. After that the auto active test starts.
5. After a series of the following operations is repeated 3 times, auto active test is complete.

When the vehicle in this Self-Test Mode the following devices on the vehicle will momentarily operate in the order shown to verify that the systems are functioning correctly.

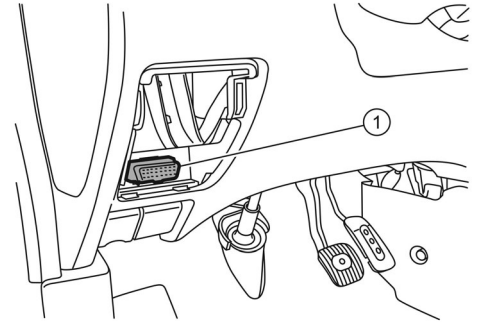
- RR Defogger
- Front wipers (HI, LO)
- Parking lamp
- License plate lamp
- Tail lamp
- Headlamp (LO, HI)
- A/C compressor (magnetic clutch)
- Cooling fan

After the self-test has been completed (3 on/off cycles) the vehicle will be returned to normal operating mode. If the operator wishes to terminate the test early they may do so by turning the ignition switch OFF.

**DATA LINK CONNECTOR LOCATION (FOR DIAGNOSTIC SCAN TOOL)****Consult Checking System**

2013-2014 model year vehicles are equipped with a data link connector located behind the fuse panel cover on the lower left side of the instrument panel.

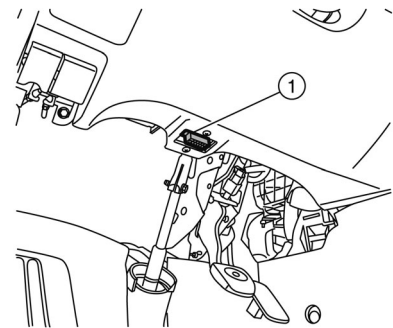
1. Data Link Connector



TGAAZIA0001ZZ

Vehicles built from 2015 model year to present are equipped with a data link connector located underneath the instrument panel below the steering column.

1. Data Link Connector



TGAAZIA0015ZZ

The vehicle is diagnosed using the CONSULT-III plus.

- When CONSULT is connected with a data link connector equipped on the vehicle side, it will communicate with the control unit equipped in the vehicle and then enable various kinds of diagnostic tests.
- Refer to "CONSULT-III plus Operation Manual" for more information.

### SHIPPING (EXTENDED STORAGE) MODE CONTROL SYSTEMS

#### Determining Shipping (Extended Storage) Mode Status

1. Turn ignition switch ON.
2. Check that extended storage warning message is not displayed in instrument cluster or display after 20 seconds.

If the extended storage warning message is displayed in instrument cluster or display refer to [Canceling Extended Storage \(pg. 138\)](#)

## SHIPPING MODE (EXTENDED) STORAGE SYSTEM CANCEL

### Canceling Extended Storage

1. Turn ignition switch OFF.
2. Press in (turn off) the extended storage switch. Refer to [Extended Storage Switch \(pg. 138\)](#)

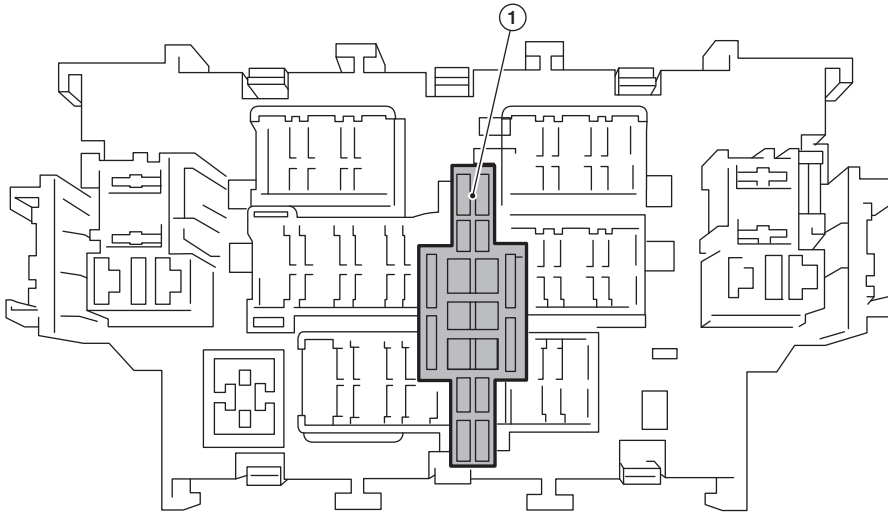
#### NOTE:

**Pressing in the switch moves the mode from shipping to normal.**

### Extended Storage Switch

The following switch is mounted on the fuse block (Junction Box) for transportation and storage.

The fuse block (Junction Box) is located in the glove box, refer to [Fuse and Relay Information \(pg. 142\)](#)



AAZIA0595ZZ

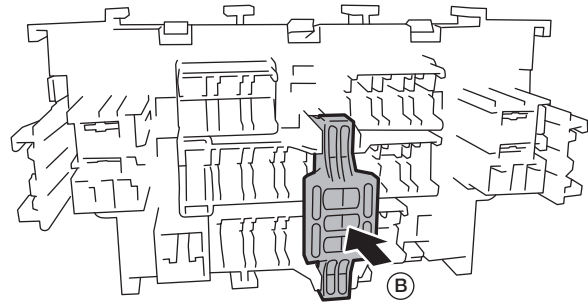
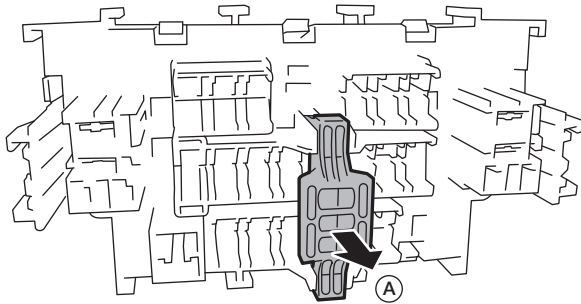
1. Extended storage switch

Remove the extended storage switch if it causes interference when checking fuses, refer to [How to remove the Extended Storage Switch \(pg. 140\)](#).

## How to turn the Extended Storage Switch ON/OFF

**CAUTION:**

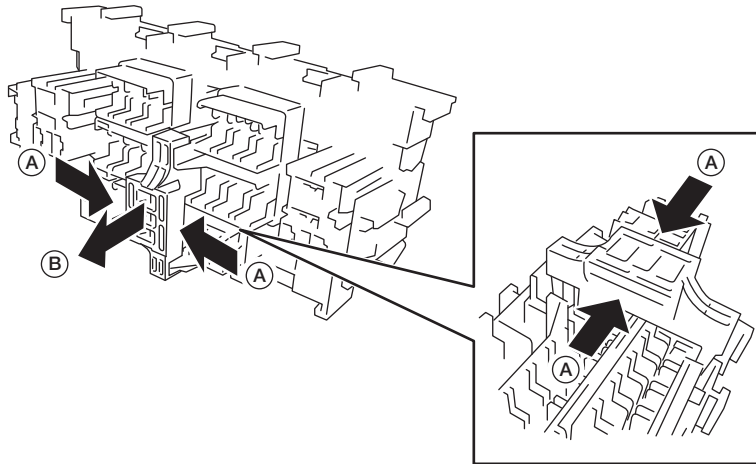
- Turn the ignition switch OFF when operating the extended storage switch.
- Under normal conditions, keep the extended storage switch in ON state. Never operate the extended storage switch except when necessary.



AAZIA0596ZZ

- To turn the extended storage switch ON, pull it up in direction A as shown in the figure.
- To turn the extended storage switch OFF, press it in direction B as shown in the figure.

## How to remove the Extended Storage Switch



AAZIA0597ZZ

1. Turn the ignition switch OFF.
2. Turn the extended storage switch OFF.
3. Pinch tabs A and and firmly pull out the extended storage switch in B direction to remove the extended storage switch.

**CAUTION:**

**For bus bar type extended storage switch, never replace bus bar with a fuse, or fuse may continually open.**

**NOTE:**

- Extended storage switch and fuse (or bus bar) are removed together. Remove fuse (or bus bar) from extended storage switch, if necessary.
- Install removed fuse (or bus bar) to fuse block.
- Extended storage switch is for transportation and storage. Reinstallation of switch is not required after removal, but fuse (or bus bar) must be reinstalled/pushed back in to activate all electrical systems and turn message off (which may be shown in meter/display).



## BCM TRANSIT MODE (2013–2015 MODEL YEARS)

### Description

Systems that are affected by BCM Transit mode are the Lock/Unlock/Panic via Remote Keyless Entry (remote key fob, when applicable), the Interior Illumination and the Head Lights. These systems will not operate while the ignition is OFF, but will operate with it ON.

### Determining BCM Transit Mode Status

To determine if the BCM Transit Mode is still active turn the ignition to ON. If the vehicle is still in BCM Transit Mode, the hazard lights in the instrument cluster will illuminate for 1 minute.

### Canceling BCM Transit Mode Status

1. Turn the ignition OFF.
2. Do the following at the same time for 2 seconds:
  - Move wiper switch to the high position (all the way down), and
  - Move turn signal switch to the left position (all the way down).
3. To confirm Transit Mode is OFF:
  - Move the turn signal switch to the center (neutral) position.
  - Turn the ignition ON – the turn signal indicators should stay OFF (not illuminate).

### NOTE:

#### Some important facts to remember:

- **BCM Transit Mode can only be canceled.**
- **You cannot switch back to BCM Transit Mode once it has been canceled.**
- **BCM Transit Mode should not be canceled until just prior to customer delivery.**

---

## FUSE AND RELAY INFORMATION

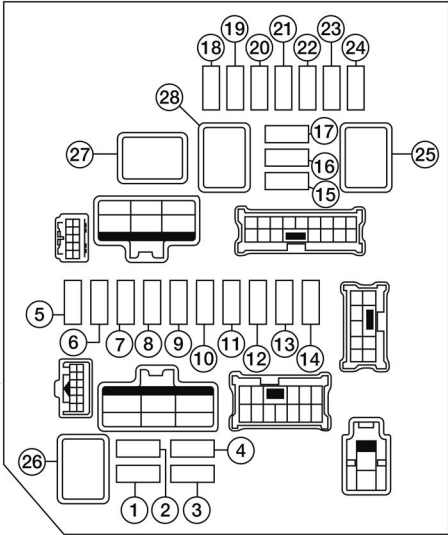
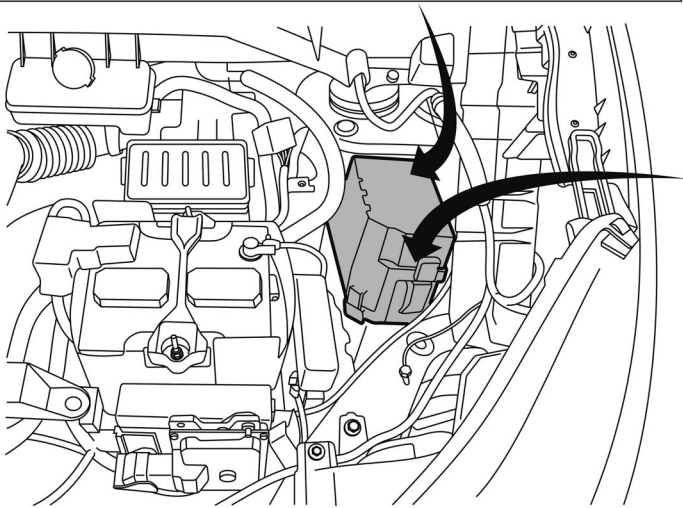
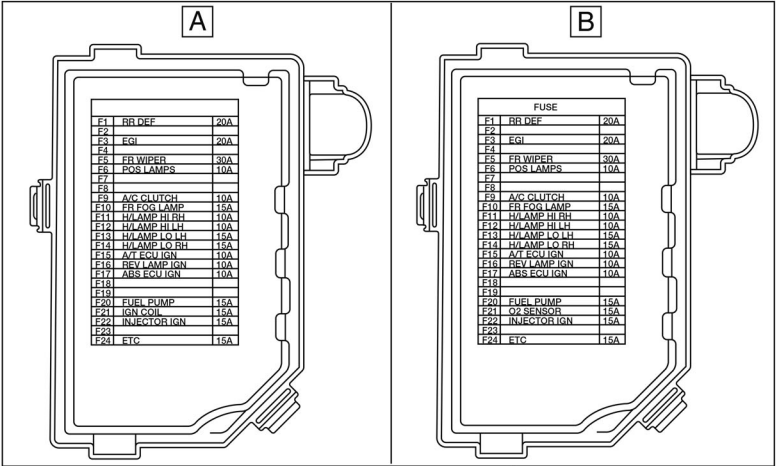
### Fuses and Relays — Engine Compartment

**WARNING:**

Tampering with or modifying the electrical system may cause safety equipment malfunction possibly resulting in serious injury or death.

**WARNING:**

This information is reference only. To avoid damage, modification of the vehicle's electrical systems is not recommended. For pre-wiring access points, refer to **CUSTOMER PRE-WIRING ACCESS (pg. 160)**.



TGAZIA0028ZZ

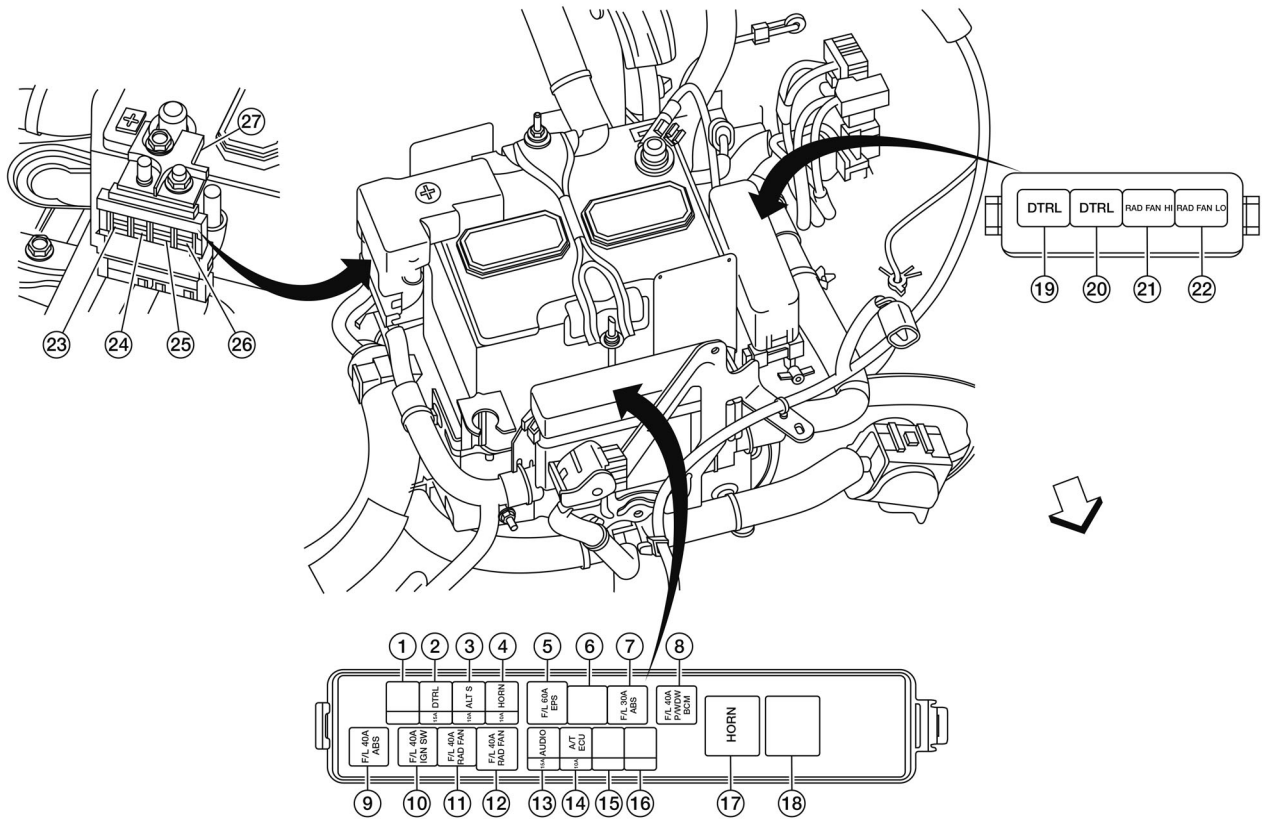
←: Front of vehicle.

## FUSE AND RELAY INFORMATION

[ELECTRICAL]

Item	Fuse/relay color	Fuse rating	Power supply condition	Fuse/relay name
1	Yellow	20A	Battery	Rear window defogger
2	—	—	—	Not used
3	Yellow	20A	Battery	ECM relay
4	—	—	—	Not used
5	Green	30A	Battery	Front wiper
6	Red	10A	Battery	Parking, license plate and tail lamps
7	—	—	—	Not used
8	—	—	—	Not used
9	Red	10A	Battery	A/C clutch
10	Blue	15A	Battery	Front fog lamp
11	Red	10A	Ignition	Headlamp (high RH)
12	Red	10A	Ignition	Headlamp (high LH)
13	Blue	15A	Ignition	Headlamp (low LH)
14	Blue	15A	Ignition	Headlamp (low RH)
15	Red	10A	Ignition, Start	A/T control system
16	Red	10A	Ignition, Start	REV lamp IGN
17	Red	10A	Ignition, Start	ABS control
18	—	—	—	Not used
19	—	—	—	Not used
20	Blue	15A	Ignition, Start	Fuel pump
21	Blue	15A	Ignition, Start	Ignition system (View A) (2013 - 2014 Model Years)
				O2 Sensor (View B) (2015-2019 Model Years)
22	Blue	15A	Ignition, Start	Fuel injector
23	—	—	—	Not used
24	Blue	15A	Battery	Throttle control motor
25	Black	—	—	Ignition relay
26	Black	—	—	Rear window defogger relay
27	Black	—	—	Cooling fan relay - 2
28	Black	—	—	Cooling fan relay - 1

2013–2019 Model Years



TGAAZIA0025ZZ

↩: Front of vehicle.

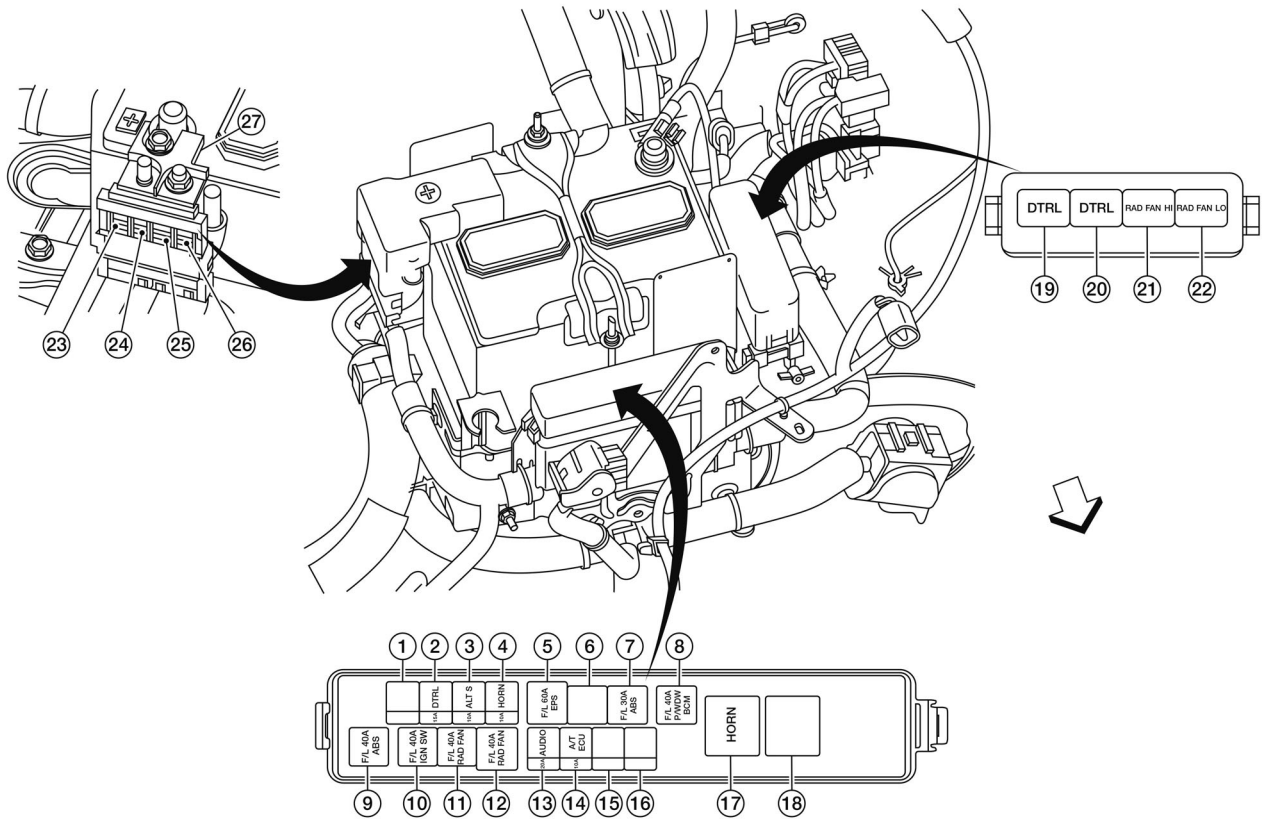
Item	Fuse/relay color	Fuse rating	Power supply condition	Fuse/relay name
1	—	—	—	Not used
2	Red	10A	Battery	Daytime light relay 1
3	Red	10A	Battery	Charging system
4	Red	10A	Battery	Horn relay
5	Yellow	60A	Battery	Electronically controlled power steering control unit
6	—	—	—	Not used
7	Yellow	30A	Battery	ABS solenoid
8	Blue	40A	Battery	BCM power window relay
9	Blue	40A	Battery	ABS motor
10	Green	40A	Battery	Starting system
11	Green	40A	Battery	Engine cooling fan system

## FUSE AND RELAY INFORMATION

[ELECTRICAL]

Item	Fuse/relay color	Fuse rating	Power supply condition	Fuse/relay name
12	Green	40A	Battery	Engine cooling fan system
13	Blue	15A	Battery	Audio
14	Red	10A	Battery	CVT system
15	—	—	—	Not used
16	—	—	—	Not used
17	Black	—	—	Horn relay
18	—	—	—	Not used
19	Blue	—	—	Daytime light relay 2
20	Black	—	—	Daytime light relay 1
21	Blue	—	—	Engine cooling fan system (HI)
22	Blue	—	—	Engine cooling fan system (LO)
23	—	80A	Battery	Air conditioning, mirror, power socket and body systems
24	—	60A	Battery	Ignition, power train, transmission and body systems
25	—	80A	Battery	Lighting, body, charging systems
26	—	100A	Battery	BCM, engine cooling, starting, transmission control and audio systems
27	—	140A	Battery	Alternator

Starting with 2020 Model Year



TGAZIA0084ZZ

↩: Front of vehicle.

Item	Fuse/relay color	Fuse rating	Power supply condition	Fuse/relay name
1	—	—	—	Not used
2	Red	10A	Battery	Daytime light relay 1
3	Red	10A	Battery	Charging system
4	Red	10A	Battery	Horn relay
5	Yellow	60A	Battery	Electronically controlled power steering control unit
6	—	—	—	Not used
7	Yellow	30A	Battery	ABS solenoid
8	Blue	40A	Battery	BCM power window relay
9	Blue	40A	Battery	ABS motor
10	Green	40A	Battery	Starting system
11	Green	40A	Battery	Engine cooling fan system

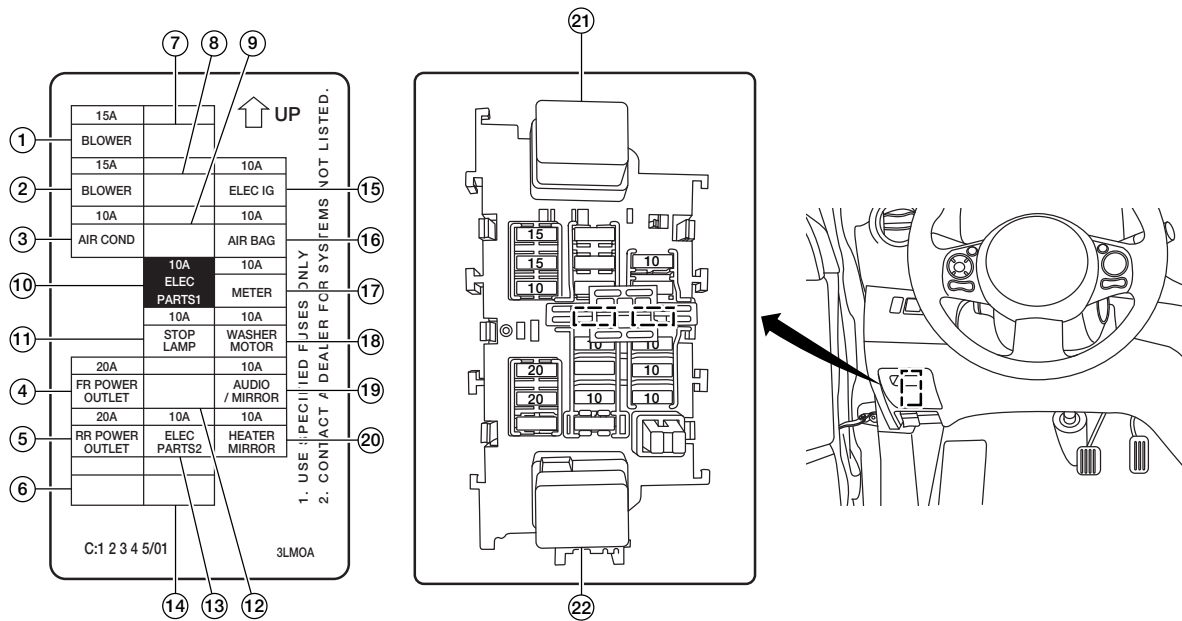
## FUSE AND RELAY INFORMATION

[ELECTRICAL]

Item	Fuse/relay color	Fuse rating	Power supply condition	Fuse/relay name
12	Green	40A	Battery	Engine cooling fan system
13	Yellow	20A	Battery	Audio
14	Red	10A	Battery	CVT system
15	—	—	—	Not used
16	—	—	—	Not used
17	Black	—	—	Horn relay
18	—	—	—	Not used
19	Blue	—	—	Daytime light relay 2
20	Black	—	—	Daytime light relay 1
21	Blue	—	—	Engine cooling fan system (HI)
22	Blue	—	—	Engine cooling fan system (LO)
23	—	80A	Battery	Air conditioning, mirror, power socket and body systems
24	—	60A	Battery	Ignition, power train, transmission and body systems
25	—	80A	Battery	Lighting, body, charging systems
26	—	100A	Battery	BCM, engine cooling, starting, transmission control and audio systems
27	—	140A	Battery	Alternator



## Fuses and Relays — Interior



AAZIA0162ZZ

Item	Fuse/Relay Color	Fuse Rating	Power Supply Condition	Fuse/Relay Name
1	Blue	15A	Ignition	Air conditioning system
2	Blue	15A	Ignition	Air conditioning system
3	Red	10A	Ignition	Air conditioning system
4	Yellow	20A	Accessory, Ignition	Front 12V power socket
5	Yellow	20A	Accessory, Ignition	Rear 12V power socket
6	—	—	—	Not used
7	—	—	—	Not used
8	—	—	—	Not used
9	—	—	—	Not used
10	Red	10A	B+	Meter, key switch, CONSULT
11	Red	10A	B+	Stop lamp system
12	—	—	—	Not used
13	Red	10A	B+	BCM
14	—	—	—	Not used

## FUSE AND RELAY INFORMATION

[ELECTRICAL]

Item	Fuse/Relay Color	Fuse Rating	Power Supply Condition	Fuse/Relay Name
15	Red	10A	Ignition	Ignition system
16	Red	10A	Ignition	Air bag system
17	Red	10A	Ignition	Meter, Bluetooth® control unit, IT master, stop lamp, EPS, CONSULT system
18	Red	10A	Ignition	Wiper and washer system switch
19	Red	10A	Accessory, Ignition	BCM, Bluetooth® control unit, audio, mirror and telematics system
20	Red	10A	Accessory, Ignition	Heater mirror
21	Blue	—	Ignition	Blower relay
22	Blue	—	Accessory	Accessory relay

## GROUND S

### Ground s



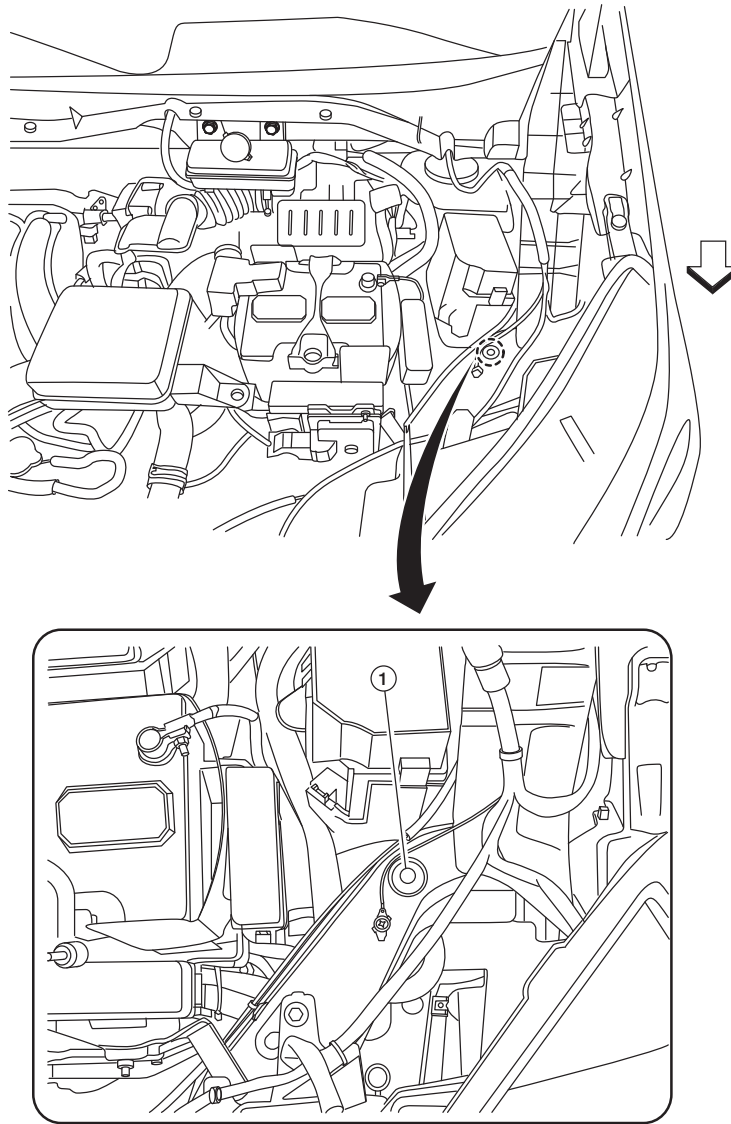
#### CAUTION:

- **Do not ground accessories directly to the battery negative terminal on any Nissan vehicle. Doing so may interfere with the power generation voltage variable control system and cause poor or inoperative battery charging.**
- **Install electrical accessories using suitable body ground connections or ground to the engine block area. Refer to [BATTERY VOLTAGE CONTROL SYSTEM \(pg. 158\)](#).**

It is the responsibility of the vehicle upfitter to install any grounds necessary for equipment from aftermarket or second stage equipment manufacturers. Nissan factory grounds should not be altered.

## **Permissible Ground Location**

### **Underhood**



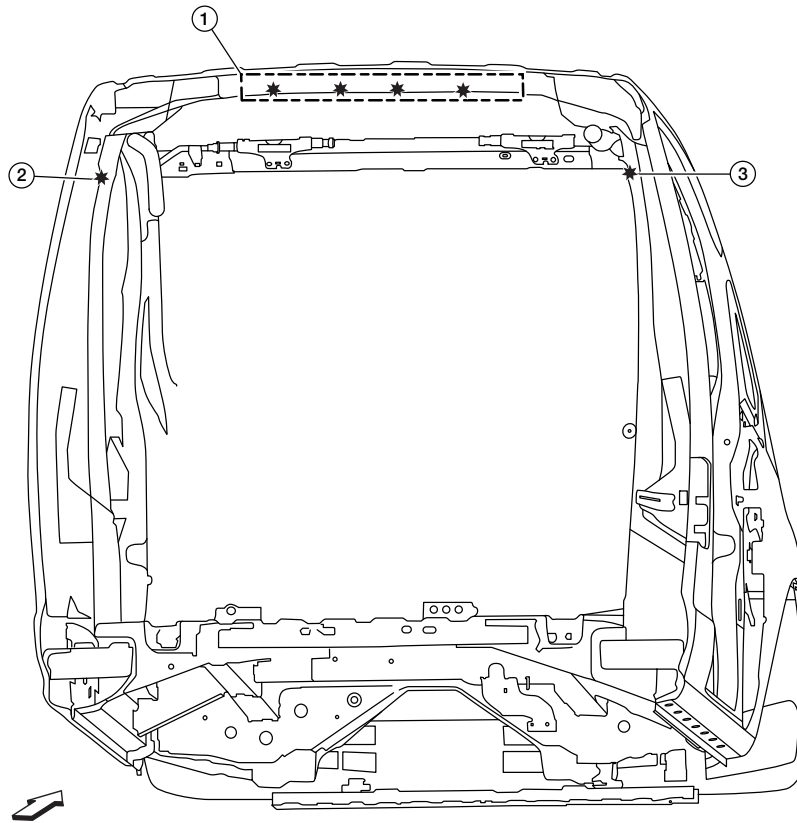
AAZIA0207ZZ

↖: Front of vehicle.

1. Permissible ground location.

Use a bolt, nut and washers or self-tapping screw with dielectric grease to fasten additional underhood accessory grounds.

## **Bulkhead**



AAZIA0208ZZ

: Front of vehicle.

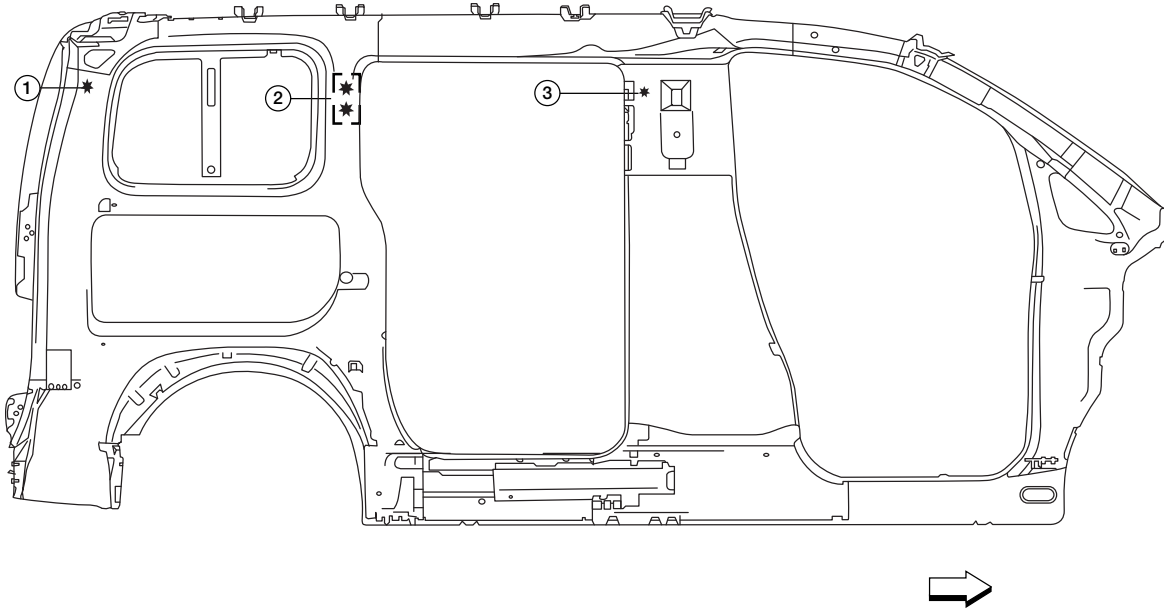
\* Weld nut locations are M8 x 1.25. Weld nut locations 2 and 3 may be plugged with M8 bolts.

1. Upper bulkhead locations                      2. LH B-pillar location                      3. RH B-pillar location

Use M8 x 1.25 bolt(s) with dielectric grease to fasten additional interior accessory grounds.

## **LH Body Side, Inner**

LH body side inner as viewed from inside the vehicle.



AAZIA0209ZZ

↩: Front of vehicle.

\* Weld nut locations are M8 x 1.25. Weld nut location 3 may be plugged with a M8 bolt.

1. D-pillar location

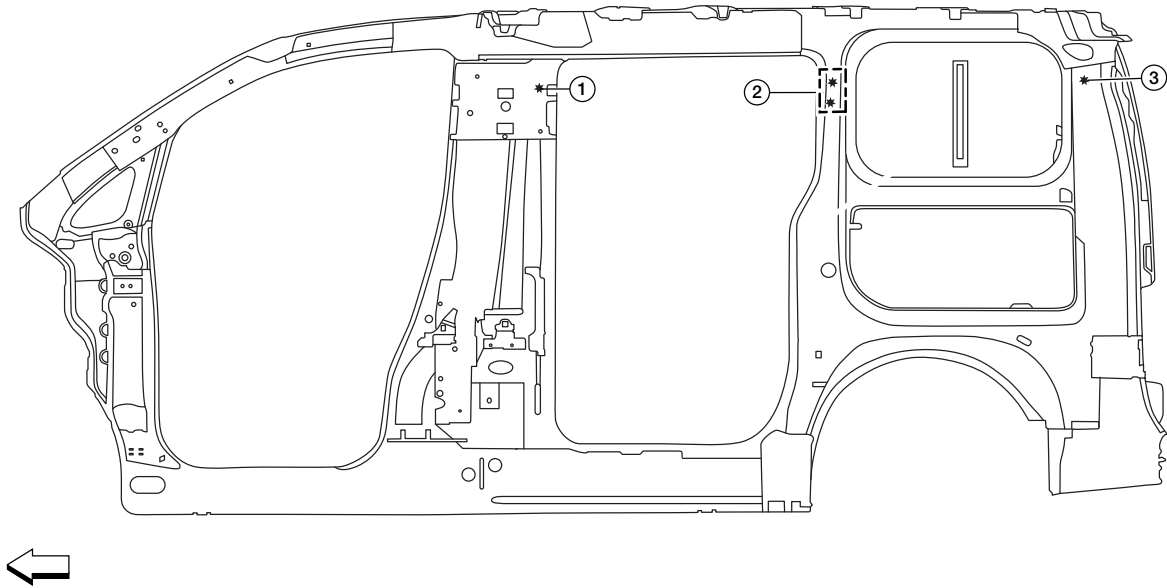
2. C-pillar locations

3. B-pillar location

Use M8 x 1.25 bolt(s) with dielectric grease to fasten additional interior accessory grounds.

## **RH Body Side, Inner**

RH body side inner as viewed from inside the vehicle.



AAZIA0210ZZ

↩: Front of vehicle.

\* Weld nut locations are M8 x 1.25. Weld nut location 1 may be plugged with a M8 bolt.

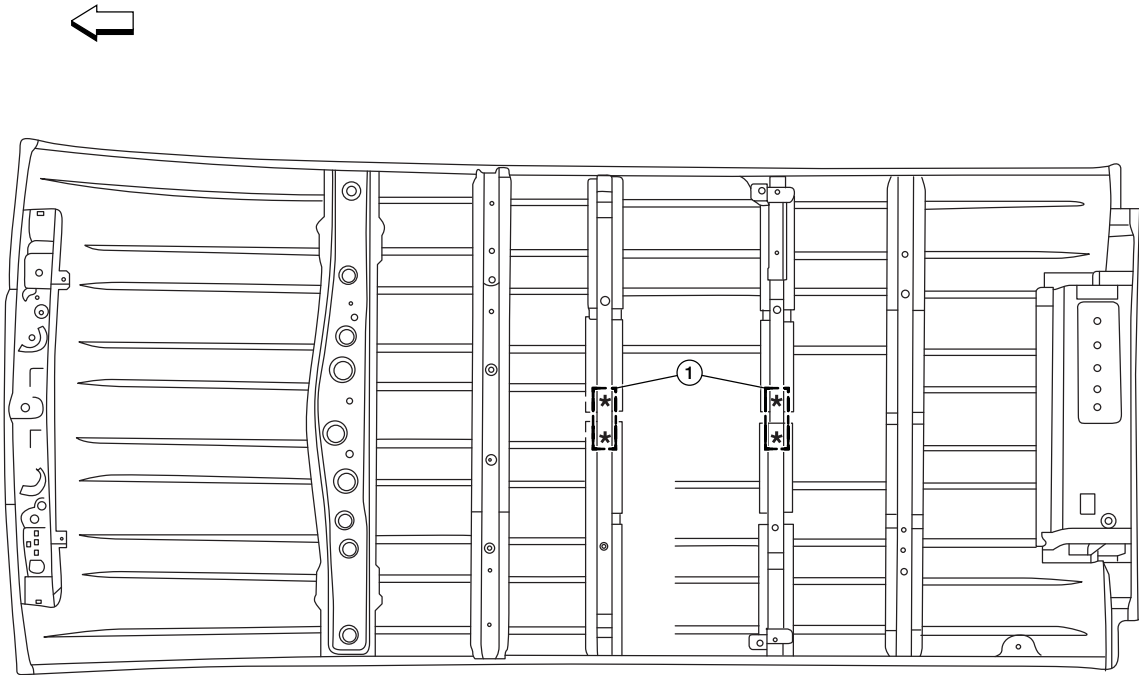
1. B-pillar location

2. C-pillar locations

3. D-pillar location

Use M8 x 1.25 bolt(s) with dielectric grease to fasten additional interior accessory grounds.

## **Interior Roof Bow — 2013-2014 Model Years**



AAZIA0211ZZ

↖: Front of vehicle.

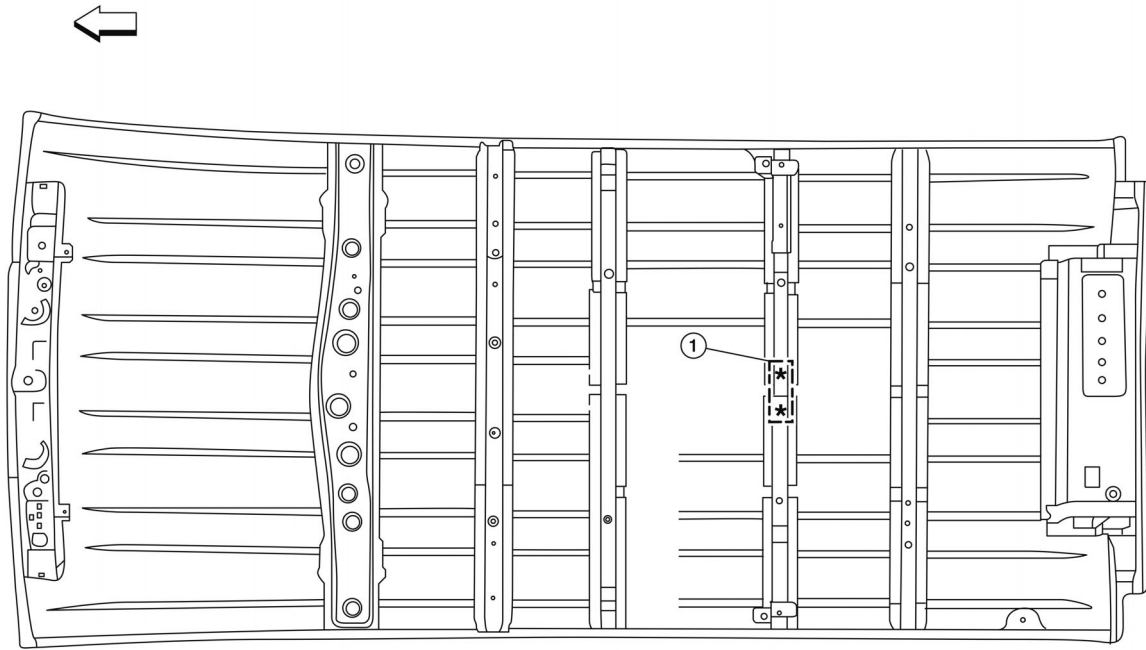
\* Weld nut locations are M6 x 1.0.

1. Permissible ground locations.

Use M6 x 1.0 bolt(s) with dielectric grease to fasten additional interior accessory grounds.



## **Interior Roof Bow — 2015-2020 Model Years**



TGAAZIA0082ZZ

↩: Front of vehicle.

\* Weld nut locations are M6 x 1.0.

1. Permissible ground locations.

Use M6 x 1.0 bolt(s) with dielectric grease to fasten additional interior accessory grounds.

---

**BATTERY VOLTAGE CONTROL SYSTEM****CAUTION:**

- **Do not ground accessories directly to the battery negative terminal on any Nissan vehicle. Doing so may interfere with the power generation voltage variable control system and cause poor or inoperative battery charging.**
- **Install electrical accessories using suitable body ground connections or ground to the engine block area.**
- **Use electrical accessories with the engine running to avoid discharging the vehicle battery.**

Adding electrical devices puts more load on the electrical system and the battery. The engine control module (ECM) monitors battery voltage. If battery voltage drops below 12 volts, engine RPM is increased up to 900 RPM (maximum for idle condition when the engine is at normal operating temperature). RPM will decrease as battery voltage increases. Engine RPM changes are gradually ramped up and down by ECM control.

For battery specifications, refer to [Battery \(pg. 253\)](#) in the Specifications section.

For ground locations, refer to [Ground locations \(pg. 151\)](#).

---

**BATTERY VOLTAGE CONNECTION****CAUTION:**

To avoid vehicle damage, any aftermarket wiring installations must not interfere with OEM wiring or electrical systems. It is the upfitter's responsibility to take the following precautionary measures when any aftermarket electrical wiring is being installed:

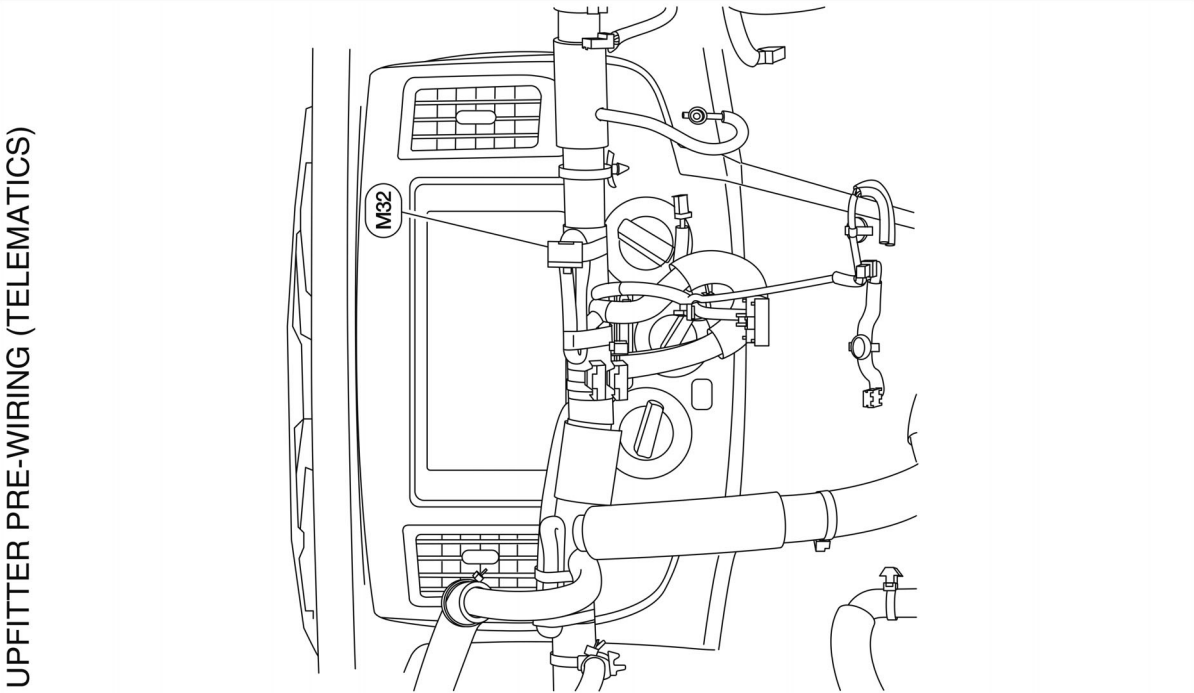
- The upfitter is responsible to calculate all additional current load specifications and install appropriately rated wiring and fuse protection.
- The upfitter is responsible to not exceed the vehicle's maximum rated current capacity.
- The upfitter is responsible to maintain integrity of the vehicle's electrical systems.
- The upfitter is responsible for safety testing of any electrical modifications to the vehicle.

Refer to manufacturer specifications for aftermarket electrical accessories to be installed before making any voltage connections and protect vehicle electrical systems by installing appropriate fusing devices.

For information on ground connections, refer to [GROUNDS \(pg. 151\)](#) in this section.

CUSTOMER PRE-WIRING ACCESS

Telematics Connector Terminal Layout



Connector No.	M32
Connector Name	PRE-WIRING FOR TELEMATICS CONTROL MODULE
Connector Color	WHITE



1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24

Terminal No.	Color of Wire	Signal Name	Wire Gauge	Maximum Load
8	Black	DOOR UNLOCK	20	—
9	Yellow or Yellow/Blue	AIRBAG WARNING	20	Do Not Use
10	Blue	ACC	22	5 A
11	Red	COLLISION NOTIFY	20	Less than 10 mA
12	Blue	CAN-H	22	—
21	Pink	DOOR LOCK	20	—
22	Black	GND	22	10 A
23	Light Green	B+	22	5.5 A
24	Pink	CAN-L	22	—

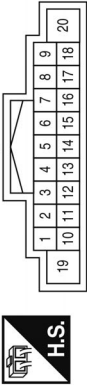
Speaker Wiring — 2013-2019 Model Years

NOTE:

There is no provision for rear speaker connections starting with 2020 model year.

Connector No. *	M43 or M46	M44	M70
Connector Name	AUDIO UNIT (WITHOUT NAVIGATION SYSTEM)	DISPLAY RADIO (STARTING WITH 2018 MODEL YEAR)	AV CONTROL UNIT (WITH NAVIGATION SYSTEM)
Connector Color	WHITE	WHITE	WHITE

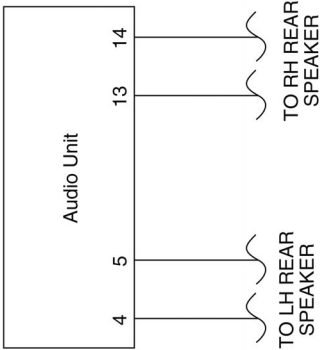
\* Refer to Service Manual for additional wiring details.



Terminal No.	Signal Name
4	REAR SP LH +
5	REAR SP LH -
13	REAR SP RH +
14	REAR SP RH -

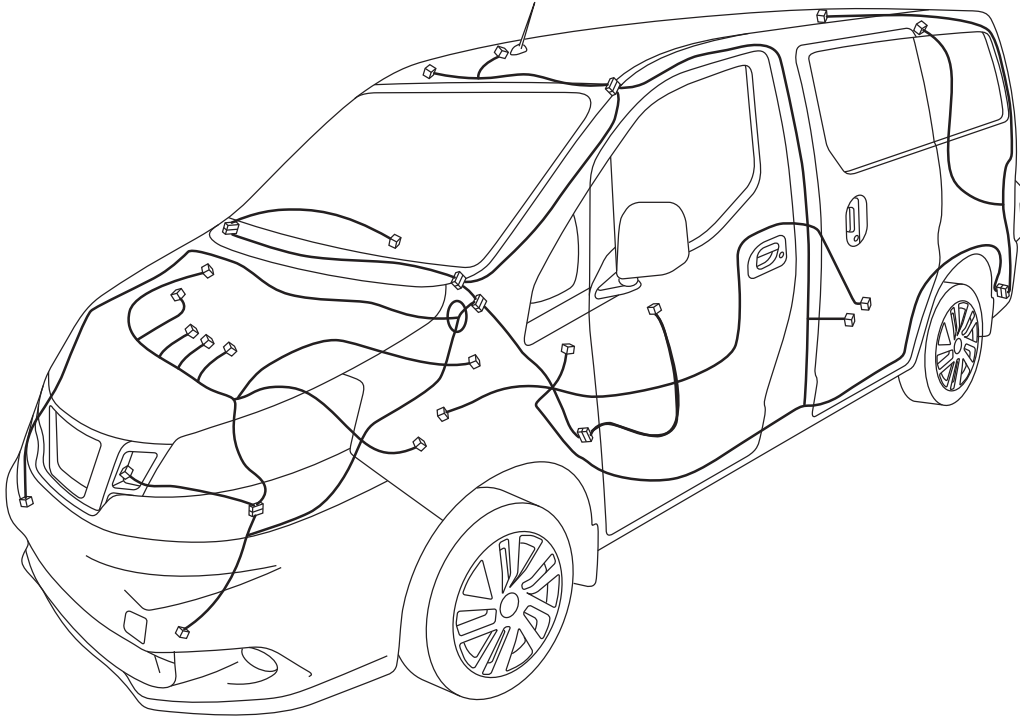
CAUTION:  
Only use speakers rated at 2 ohms impedance to avoid damaging the audio unit.  
Connector pins and wiring must be inserted into the connector cavities indicated. Use pin terminals supplied with Genuine NISSAN Harness Repair Kit (J-48817).

REAR SPEAKER WIRING



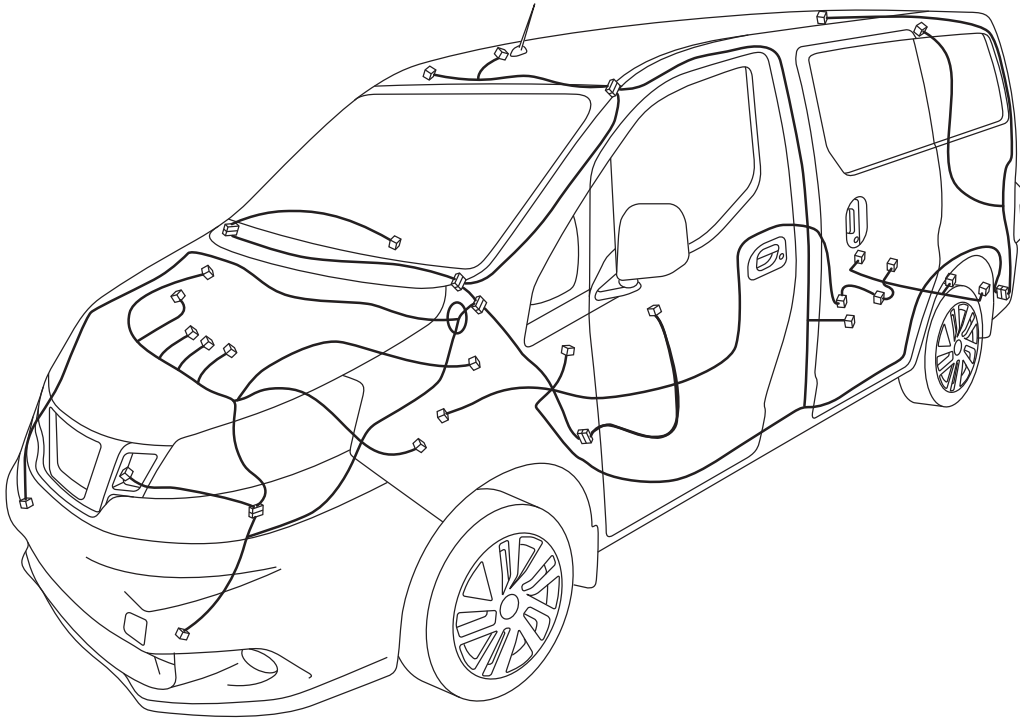
### HARNESS LAYOUT

Harness Outline — 2013-2014 Model Years



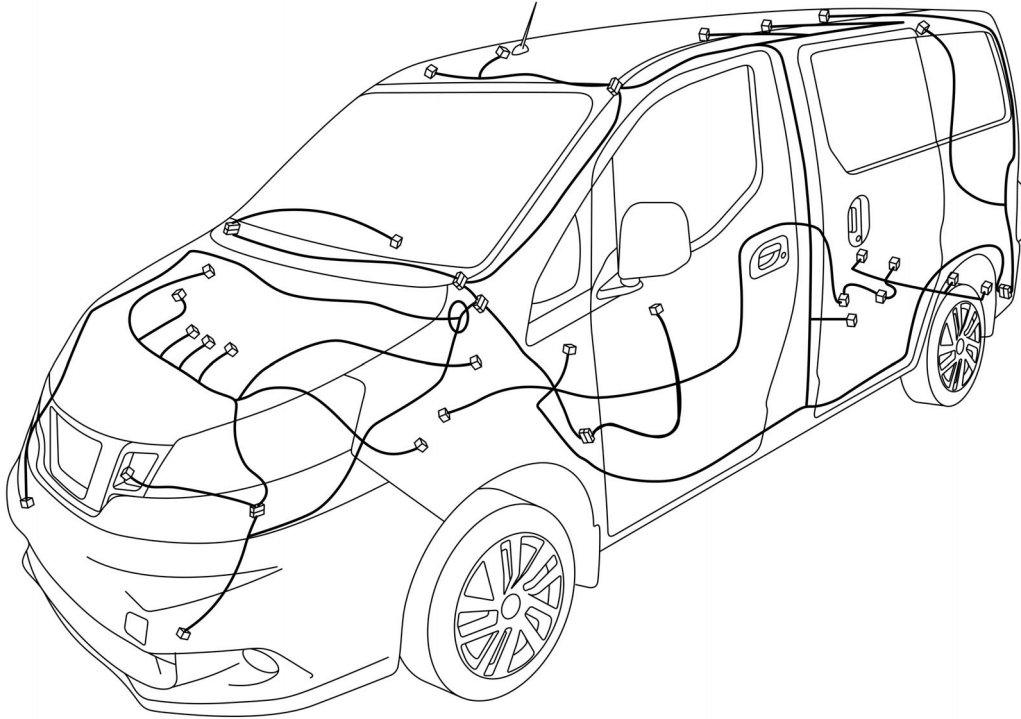
AAZIA0164ZZ

## Harness Outline — 2015-2019 Model Years



AAZIA0470ZZ

## Harness Outline — 2020 Model Year



TGAZIA0081ZZ



## Main Harness



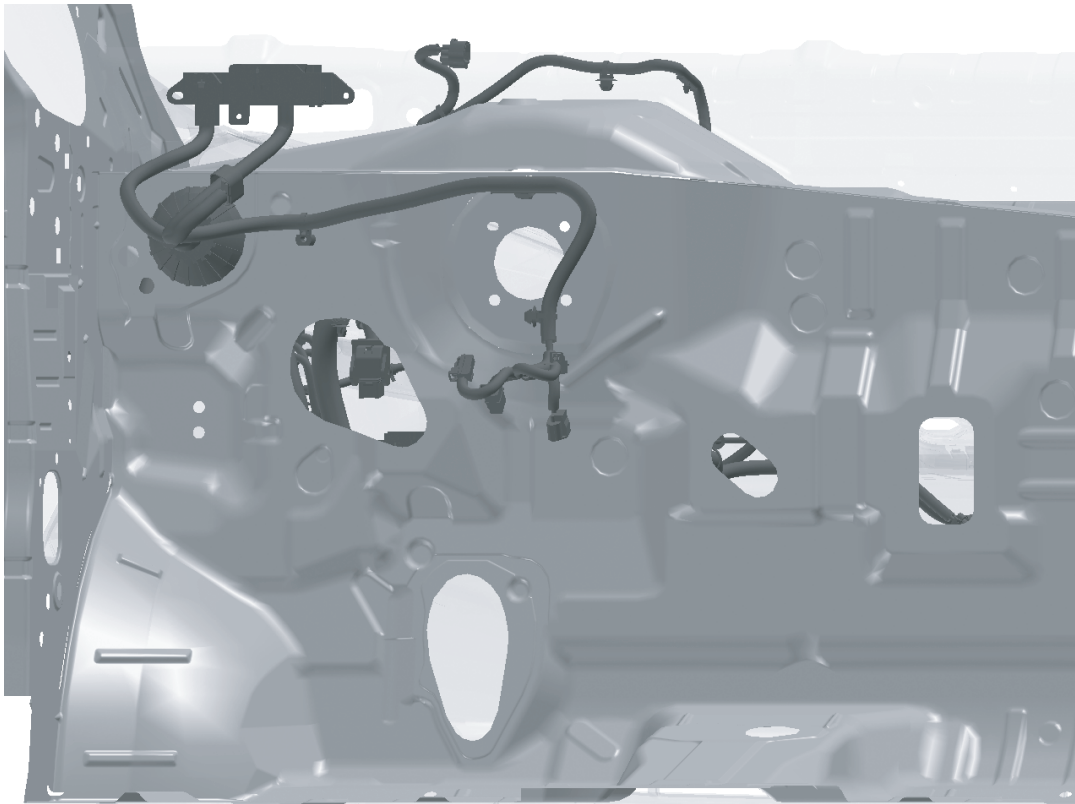
AAZIA0121ZZ

### Engine Room Harness



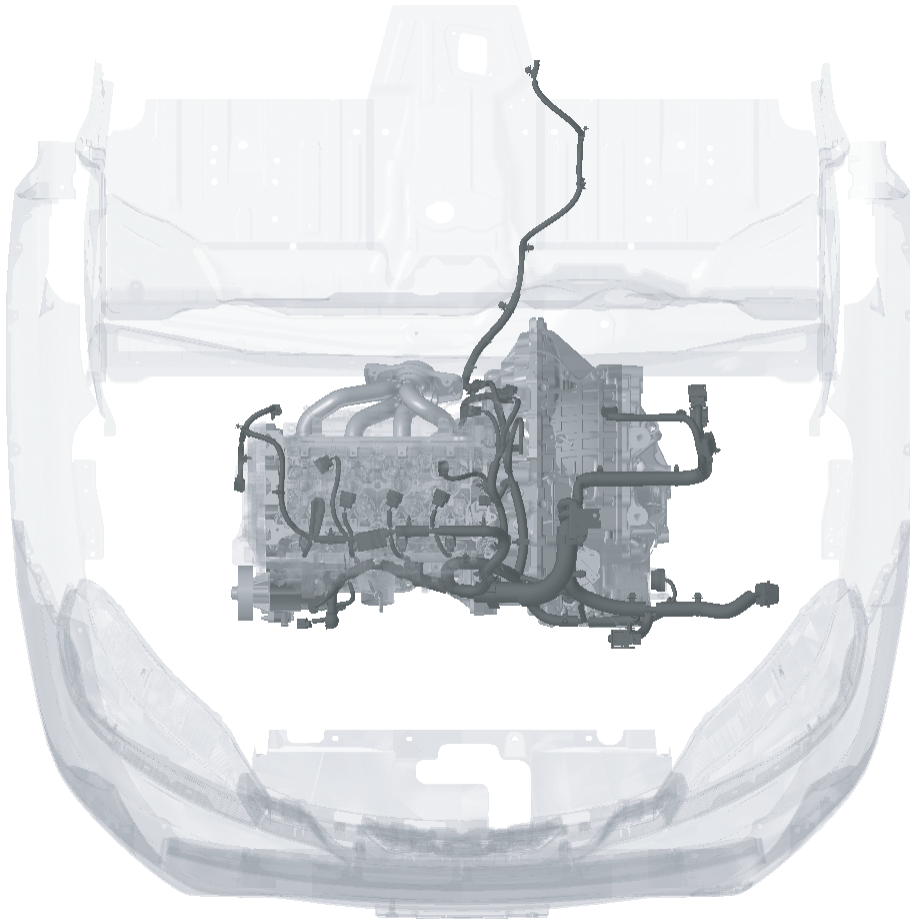
AAZIA0118ZZ

### Engine Room Harness (Passenger Compartment)



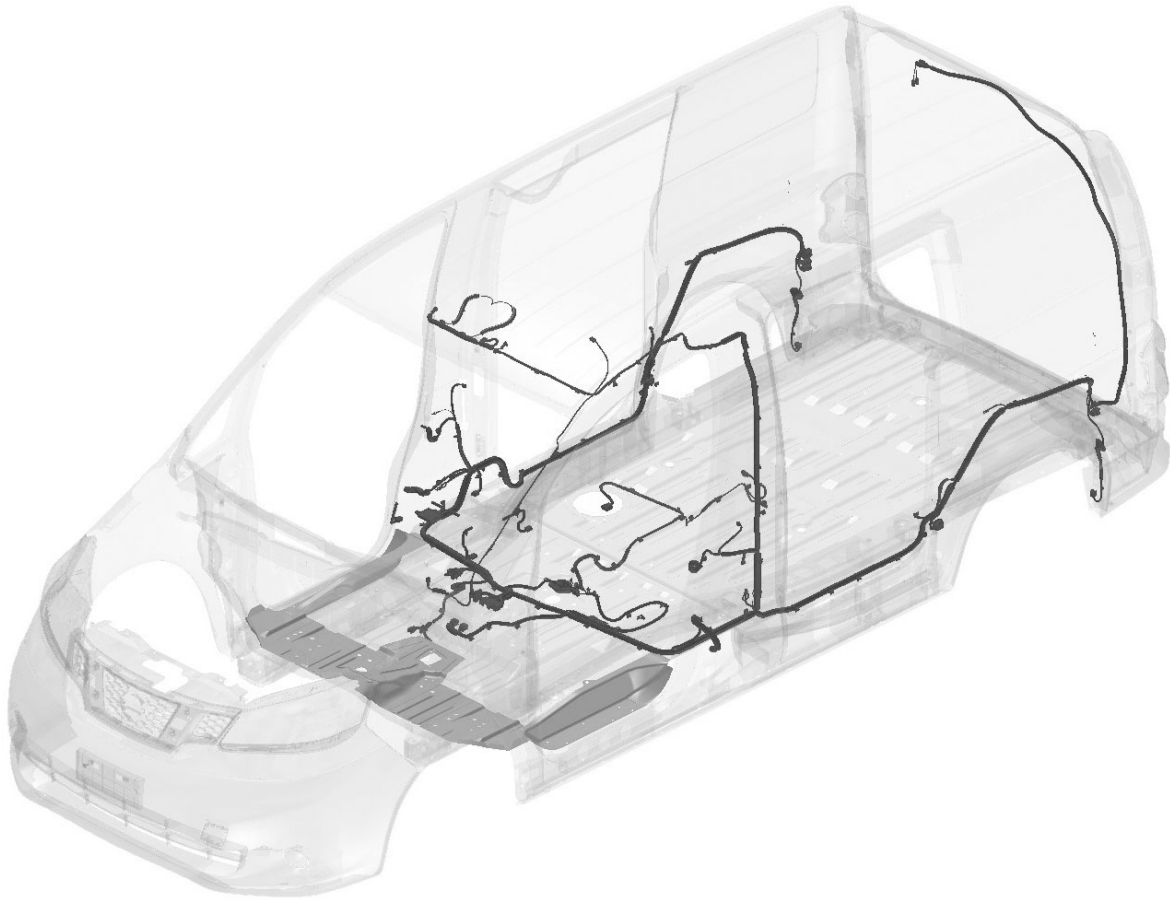
AAZIA0117ZZ

### Engine Control Harness



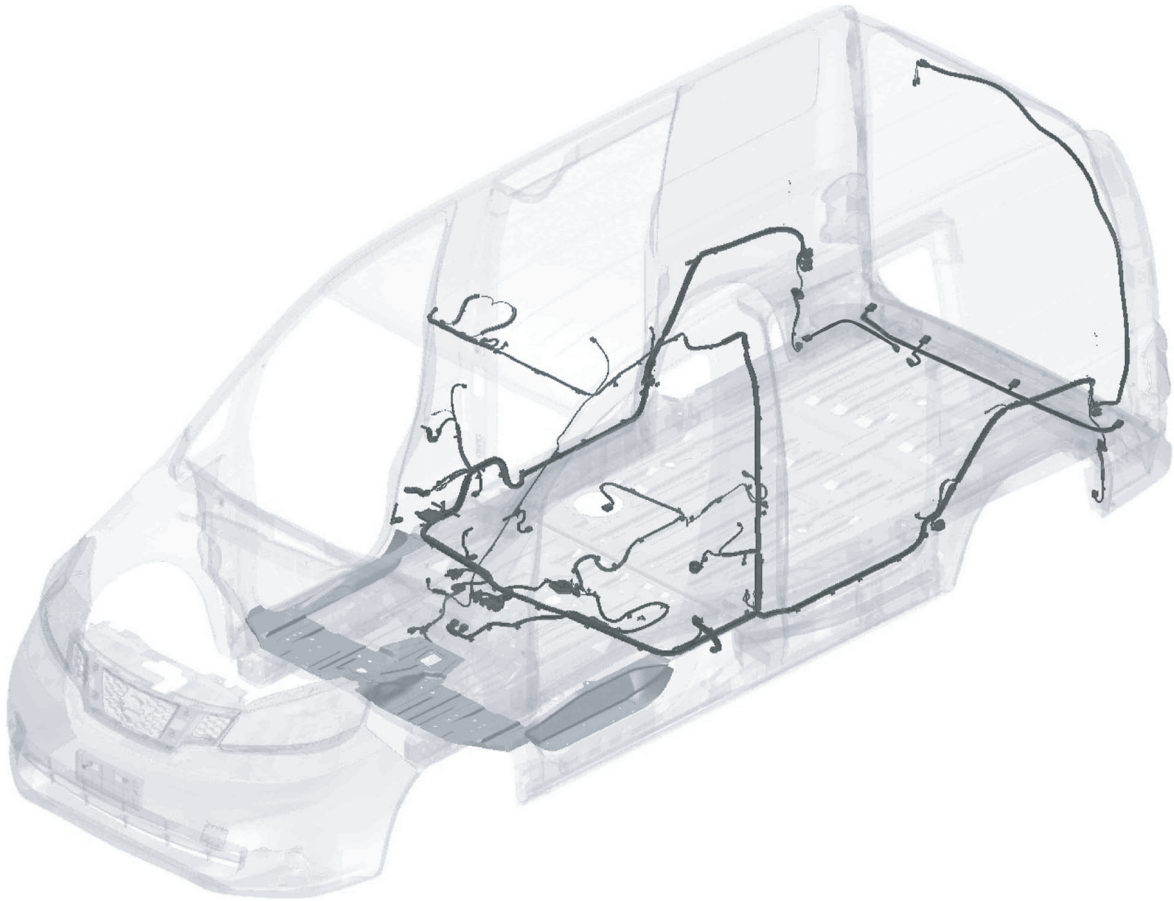
AAZIA0116ZZ

## Body Harness — 2013–2014 Model Years



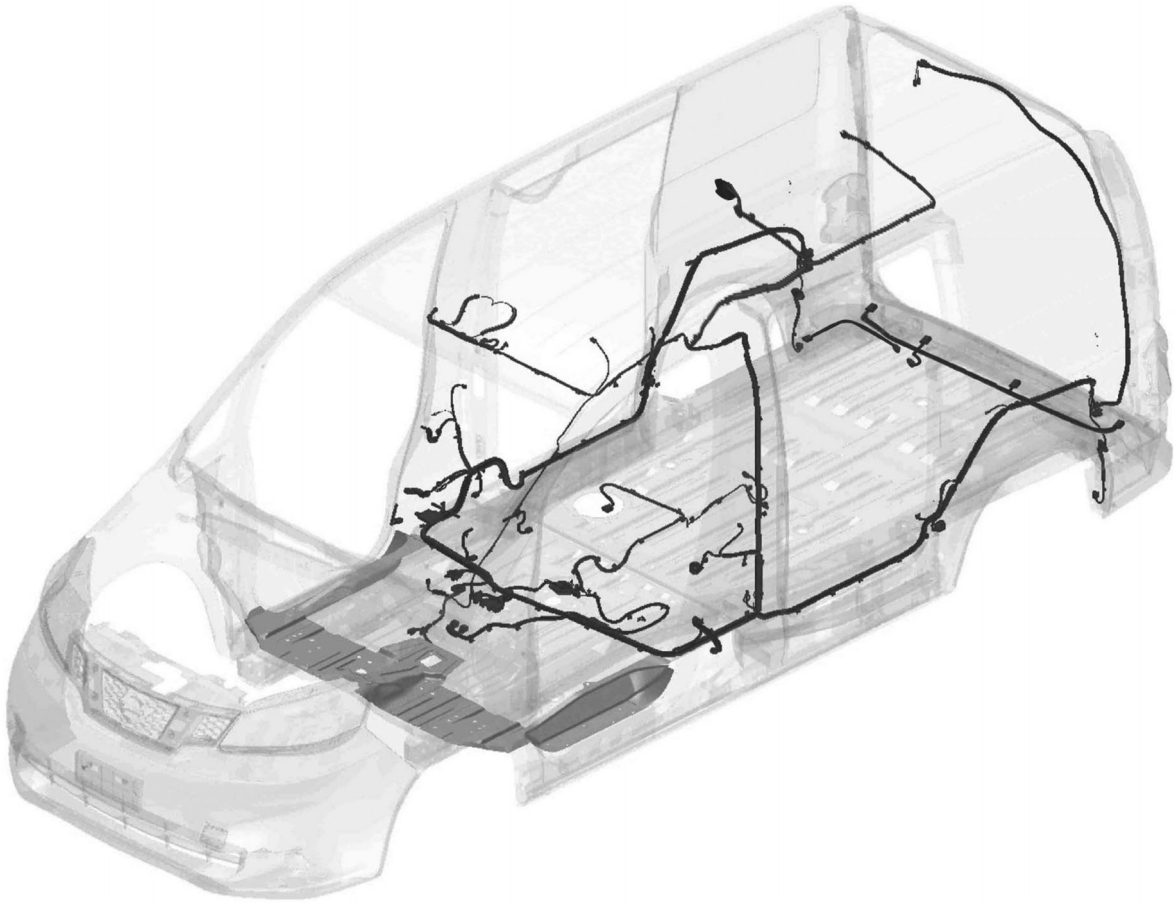
AAZIA0115ZZ

## Body Harness — 2015-2019 Model Years



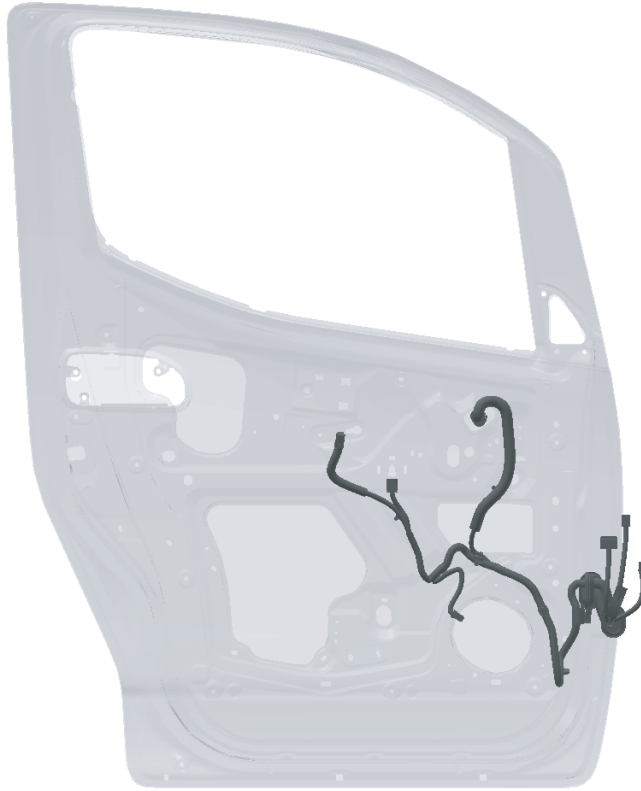
AAZIA0471ZZ

## Body Harness — 2020 Model Year



TGAZIA0080ZZ

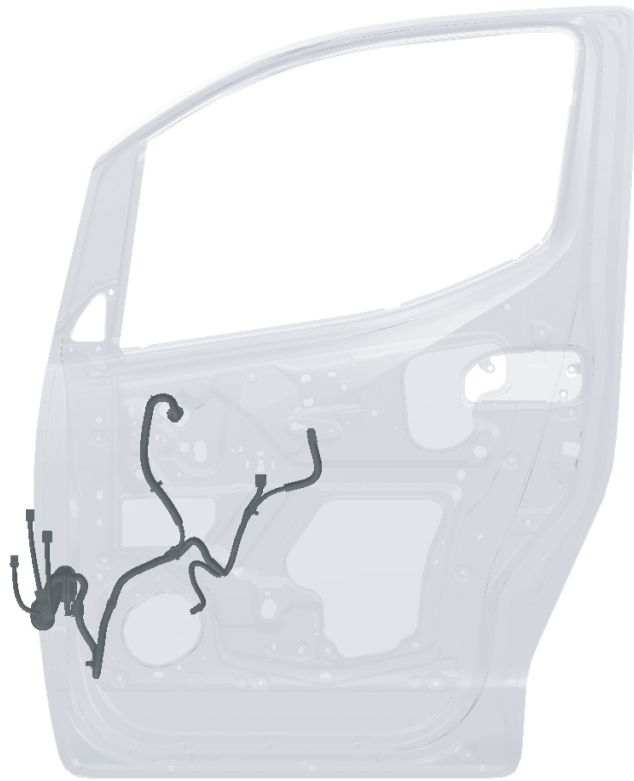
### Front Door LH Harness



AAZIA0119ZZ



### Front Door RH Harness



AAZIA0120ZZ

## Sliding Door (LH) Harness



AAZIA0125ZZ

### Sliding Door (RH) Harness



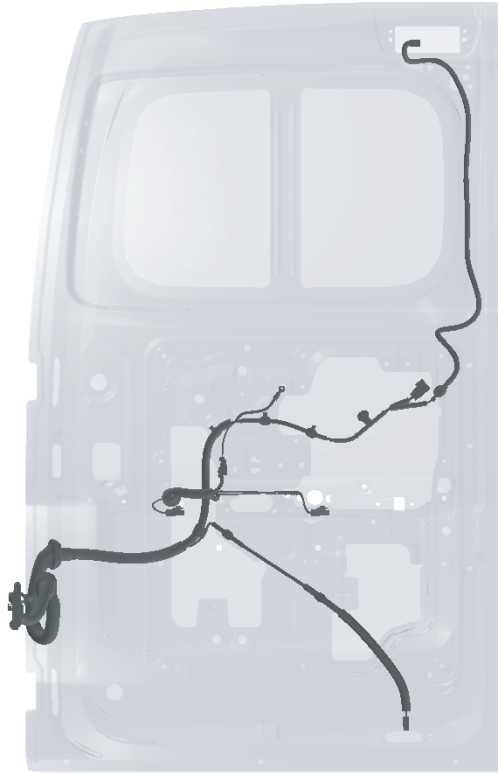
AAZIA0126ZZ

### Back Door RH Harness (With Window Glass)



AAZIA0123ZZ

### Back Door RH Harness (Without Window Glass)



AAZIA0124ZZ

## BULBS

## Exterior Lamp

Item		Wattage (W)*	Bulb No.*
Front combination lamp	Turn signal/parking lamp	28/8	3457 NAK
	Headlamp low/high	60/55	Halogen H13
Rear combination lamp	Stop/tail lamp	21/7	3047K
	Turn signal lamp	27	3157AK
	Back-up lamp	16	W16W
High-mounted stop lamp		16	W16W
License plate lamp		5	W5W

\* Always check with an authorized NISSAN dealer for the latest parts information.

## Interior Lamp/Illumination

Item	Wattage (W)*	Bulb No.*
Front room/map lamp	5	W5W
Cargo lamp	5	W5W

\* Always check with an authorized NISSAN dealer for the latest parts information.

## HEADLAMP AIMING

### Inspection

**NOTE:**

**The aftermarket equipment manufacturer, second stage manufacturer, and upfitter are responsible for maintaining or restoring the headlamp adjustment after modifications to the vehicle are complete. The upfitter is responsible for maintaining compliance with the Federal or Canadian Motor Vehicle Safety Standards.**

**Preparation Before Adjusting**

Before performing aiming adjustment, check the following:

- Modifications are complete and the vehicle is unladen.
- Adjust the tire pressure to the specification.
- Place the vehicle on a level surface.
- Fill vehicle with fuel, engine coolant, and engine oil.
- Remove cargo to maintain an unloaded vehicle condition.
- Confirm the spare tire, jack, and tools are present and properly stowed.
- Place a driver or equivalent weight of 68.5 kg (150 lbs) on the driver seat.
- By hand, bounce the front and rear of the vehicle to settle the suspension and eliminate any static load.
- Place the front tires in the straight ahead position.
- Carefully wipe off any dirt from the headlamp lens.

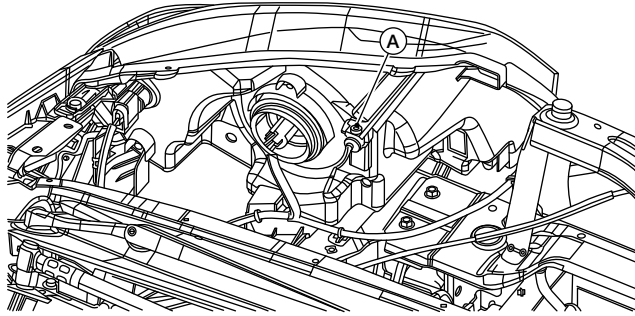
**CAUTION:**

**To avoid damage to the headlamp lens, never use organic solvent (thinner, gasoline, etc.).**

**NOTE:**

- For headlamp aiming details, refer to the regulations in your own area.
- Perform headlamp aiming if the vehicle front body has been repaired, the front combination lamp has been removed or replaced, any outfitting has been installed and/or the vehicle's standard load condition has been substantially increased.
- By regulation, no means for horizontal adjustment is provided. Horizontal aim will only be serviced by combination lamp replacement.

### Aiming Adjustment Screw



AAZIA0128ZZ

A. Headlamp (UP/DOWN) adjustment screw

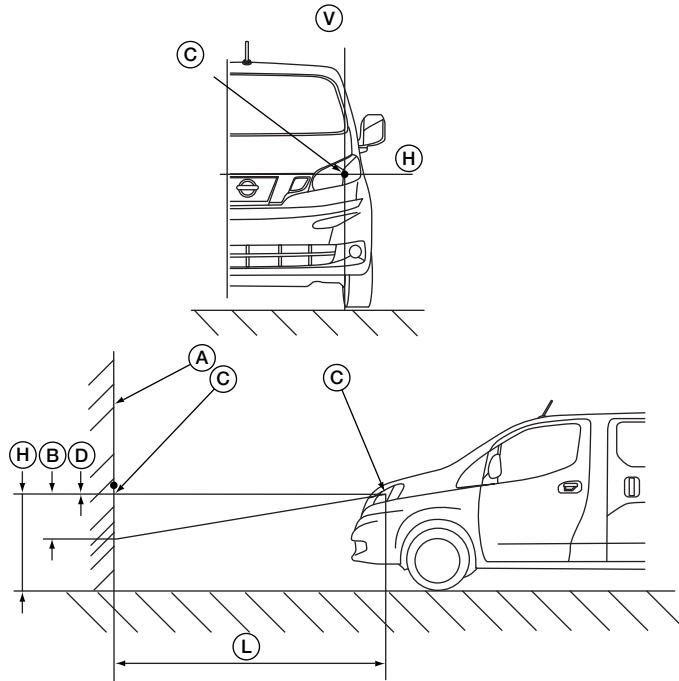
- Rotate the headlamp (UP/DOWN) adjustment screw to raise or lower the headlamp vertical beam pattern, using a suitable tool.



## Vertical Aiming Adjustment Procedure

### NOTE:

Horizontal adjustment is not possible. If horizontal adjustment is off, then the headlamp assembly from that side should be replaced.



AAZIA0127ZZ

- |                                     |                                       |  |
|-------------------------------------|---------------------------------------|--|
| A. Screen surface                   | B. Lowest cutoff line height          | C. Center of headlamp bulb (H-V point) |
| D. Highest cutoff line height       | H. Horizontal center line of headlamp | L. 10 m (33 ft)                        |
| V. Vertical center line of headlamp |                                       |  |

1. Place the screen on a flat surface the same level as the vehicle.

**NOTE:**

**Surface should be free of any debris that would cause a difference in vehicle side-to-side height.**

2. Face the front of the vehicle to the screen and measure distance between the headlamp center and the screen surface.
  - Distance between the headlamp center and the screen (L): 10 m (33 ft)
3. Block the opposite headlamp from projecting a beam pattern onto the adjustment screen, using a suitable object. Aim each headlamp individually.

**CAUTION:**

**Never cover the lens surface with tape or plastic, etc. The lens is made of resin.**

4. Start the engine. Turn the headlamps on.
5. Determine the preferred vertical aim range dimensions, using the illustration and table.

Headlamp Center Height mm (in)	Highest Cutoff mm (in)	Lowest Cutoff mm (in)
700 - 800 (27.56 - 31.50)	4.0 (0.16)	30.0 (1.18)
801 (31.54)	17.0 (0.67)	44.0 (1.73)

6. Measure the projected beam within the aim evaluation segment on the screen.
7. Adjust the beam pattern of each headlamp until the aim evaluation segment (the area relative to both the highest and lowest cutoff line height) is positioned within the vertical aim range dimensions shown on the aiming chart.

## ADDING LIGHTS OR DEVICES

### Added Lights or Accessories Controlled By Added Switches

This section describes the connection points for added electrical accessories when these accessories are to be controlled by added switches not a part of the Nissan released vehicle. The added switches and wiring must have sufficient electrical capacity for the accessory load and must be protected by appropriate fuses or circuit breakers. Also, added current draw must not cause total loads to exceed capabilities of the base vehicle wiring.

### Electrical Wiring — Adding Lights or Electrical Devices



#### CAUTION:

**Improper electrical tie-ins may affect vehicle operation (i.e., engine, transmission). After all electrical or vehicle modifications, confirm that no Diagnostic Trouble Codes (DTCs) are present and all systems operate normally. Road test the vehicle to verify that no DTCs are present. If DTCs are generated, perform the appropriate diagnostic procedures and repairs. Vehicle operation (engine/transmission) maybe affected if DTCs are not serviced.**

Disconnect the battery negative (ground) cable prior to any vehicle modification. Upon completion of body or equipment installation, all wiring should be checked for proper routing, etc. to preclude electrical shorts upon reconnecting the battery negative cable.

Connect only to the upfitter connections identified in the "customer pre-wiring access" section of this manual. Connecting to any component or wires other than those identified may adversely affect other systems and their operation.

### Radio Frequency Interference (RFI)

During modifications to the vehicle, manufacturers, service technicians, owners and users should take the necessary precautions to maintain the RFI integrity of components. (Both the United States and Canada have RFI regulations in effect.) Precautionary procedures and components listed below are examples and do not necessarily represent a complete list.

1. All components required to suppress RFI emissions, which are removed during service, repair, or modification to the vehicle, must be reinstalled in the manner in which they were installed by Nissan.
2. Do not modify or change any RF device in a manner not expressly approved by Nissan.
3. Shields on ignition components must remain installed.
4. Replacement of ignition components which are not OEM is not recommended by Nissan.
5. Electrical grounds on all components must be retained.
6. Metallic components installed on the body or chassis must be grounded to the chassis.
7. Electrical circuits added to the vehicle should not be installed near the ignition components.
8. Only "static conductive" accessory drive belts should be used.
9. Drive belts should be of the OEM type or equivalent that will not build up a static electrical charge.
10. Additional measures may be needed to adequately suppress RFI emissions.

## REGULATIONS FOR ADDING COMMUNICATION EQUIPMENT

### FCC Regulations

The FCC rules and regulations are compiled in Title 47 of the Code of Federal Regulations (CFR). They are initially published in the Federal Register. After October 1 of each year, the GPO compiles all the changes, additions, and deletions to the FCC rules and publishes an updated CFR. Refer to the FCC website for the most up-to-date information. The rules are provided in text version and in portable document format (PDF) and can be viewed using the Adobe Acrobat Reader. The FCC does not maintain a database of its rules nor does it print or stock copies of the rules and regulations. To order a copy of Title 47 of the Code of Federal Regulations visit:

[www.fcc.gov/encyclopedia/rules-regulations-title-47](http://www.fcc.gov/encyclopedia/rules-regulations-title-47)

### FCC Notice:

#### For USA:

These devices must comply with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. The device may not cause harmful interference.
2. The device must accept any interference received, including interference that may cause undesired operation.

### NOTE:

**Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.**

#### For Canada:

These devices must comply with RSS-210 of Industry Canada. Operation is subject to the following two conditions:

1. The device may not cause interference.
2. The device must accept any interference, including interference that may cause undesired operation of the device.

**REMOTE KEYLESS ENTRY SYSTEM****System Description**

If a key fob is lost, a new key fob can be set up. A maximum of 4 IDs can be set up simultaneously.

**Key Fob ID Setup**

For key fob ID setup and programming, it is recommended to go to an authorized NISSAN dealer.

# FUEL SYSTEMS

## FUEL SYSTEM PRECAUTIONS

### General

Modifications in the fuel system are not recommended, either in the circuit or the components.



### WARNING:

When replacing fuel line parts, be sure to observe the following:

- Put a "CAUTION: FLAMMABLE" sign in the workshop.
- Be sure to work in a well-ventilated area and furnish workshop with a CO2 fire extinguisher.
- Do not smoke while servicing fuel system. Keep open flames and sparks away from the work area.



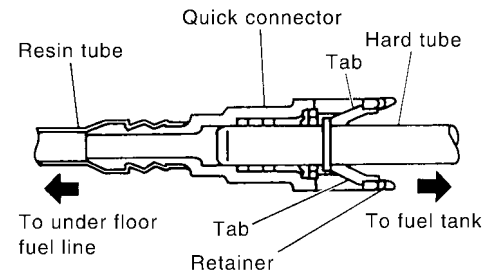
### WARNING:

- Before removing fuel line parts, carry out the following procedures:

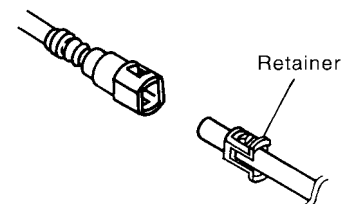
- Put drained fuel in an explosion-proof container and put the lid on securely. Keep the container in safe area.
- Release fuel pressure from the fuel lines. Refer to the [Fuel Pressure Release Procedure \(pg. 187\)](#) in this section.
- Disconnect the battery negative terminal.

- Always replace O-rings and clamps with new ones.
- Do not kink or twist hoses when they are being installed.
- After connecting the fuel tube quick connectors, make sure the quick connectors are secure. Ensure that the connector and resin tube do not contact any adjacent parts.
- After installing tubes, make sure there is no fuel leakage at connections in the following steps:
  - Apply fuel pressure to fuel lines by turning ignition switch ON (with engine stopped). Then check for fuel leaks at connections.
  - Start the engine and rev it up and check for fuel leaks at connections.
- Use only a Genuine NISSAN fuel filler cap as a replacement. If an incorrect fuel filler cap is used, the MIL may come on.
- For servicing Evaporative Emission System parts, refer to the EC section in the service manual.
- For servicing On Board Refueling Vapor Recovery (ORVR) parts, refer to the EC section in the service manual.

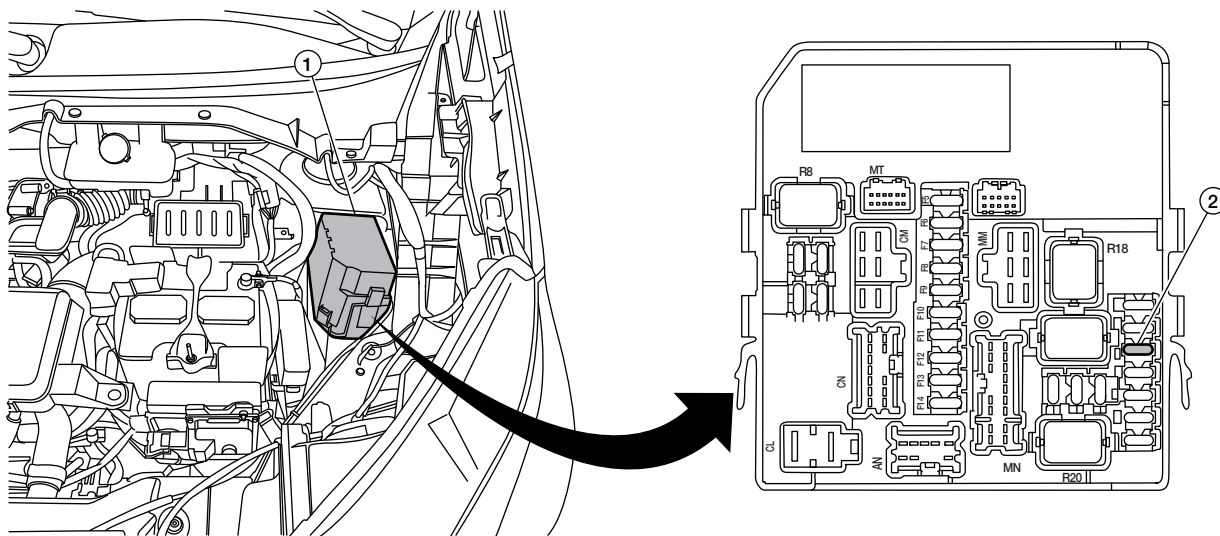
Connection (cross-section)



Disconnection



## Fuel Pressure Release Procedure



AAZIA0163ZZ

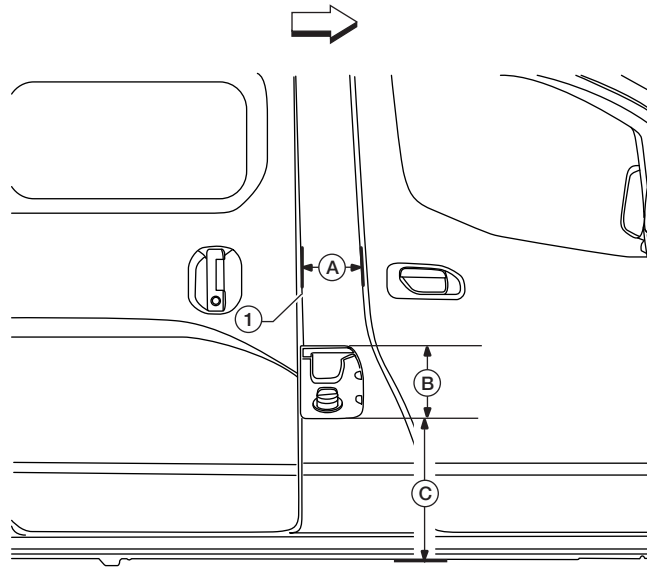
1. Intelligent Power Distribution Module Engine Room (IPDM E/R)

2. Fuel pump fuse 20 (15A)

1. Remove fuel pump fuse (2) located in IPDM E/R (1). Refer to [Fuse and Relay Information \(pg. 142\)](#) for fuse layout.
2. Start engine.
3. After engine stalls, crank it two or three times to release all fuel pressure.
4. Turn ignition switch OFF.
5. Reinstall fuel pump fuse after servicing fuel system.

## FILLER NECK AREAS

### Chassis



AAZIA0189ZZ

← : Front of vehicle

1. B pillar rear edge

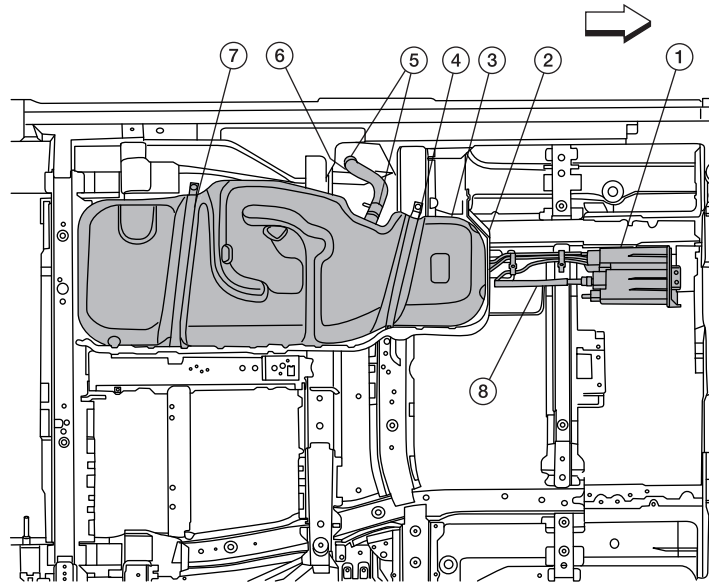
C. 430 mm (16.9 in)

A. 195 mm (7.7 in)

B. 207 mm (8.1 in)



### Fuel Filler Pipe and EVAP Canister Location — 2013-2017 Model Years



AAZIA0236ZZ

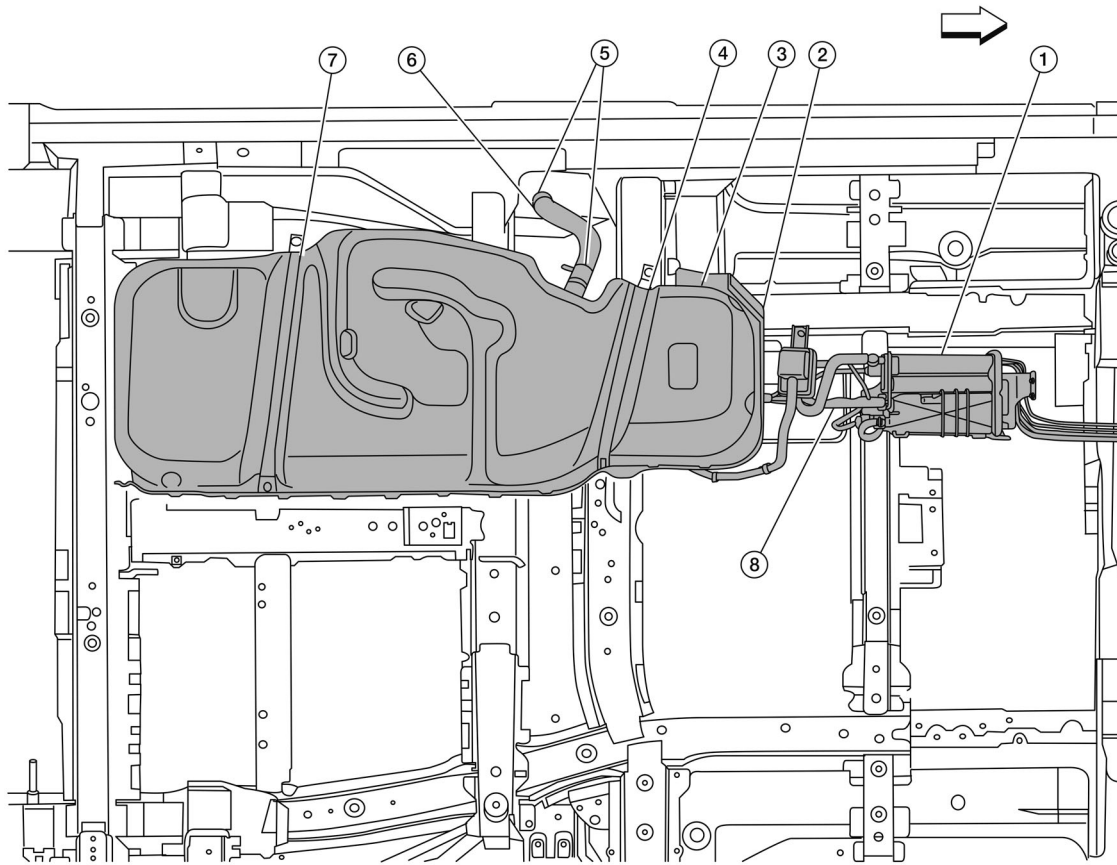
↩: Front of vehicle.

- 1. EVAP canister assembly
- 4. Front tank strap
- 7. Rear tank strap

- 2. Fuel tank protector
- 5. Clamp
- 8. EVAP vent tube

- 3. Fuel tank
- 6. Fuel filler hose

### Fuel Filler Pipe and EVAP Canister Location — 2018-2020 Model Years



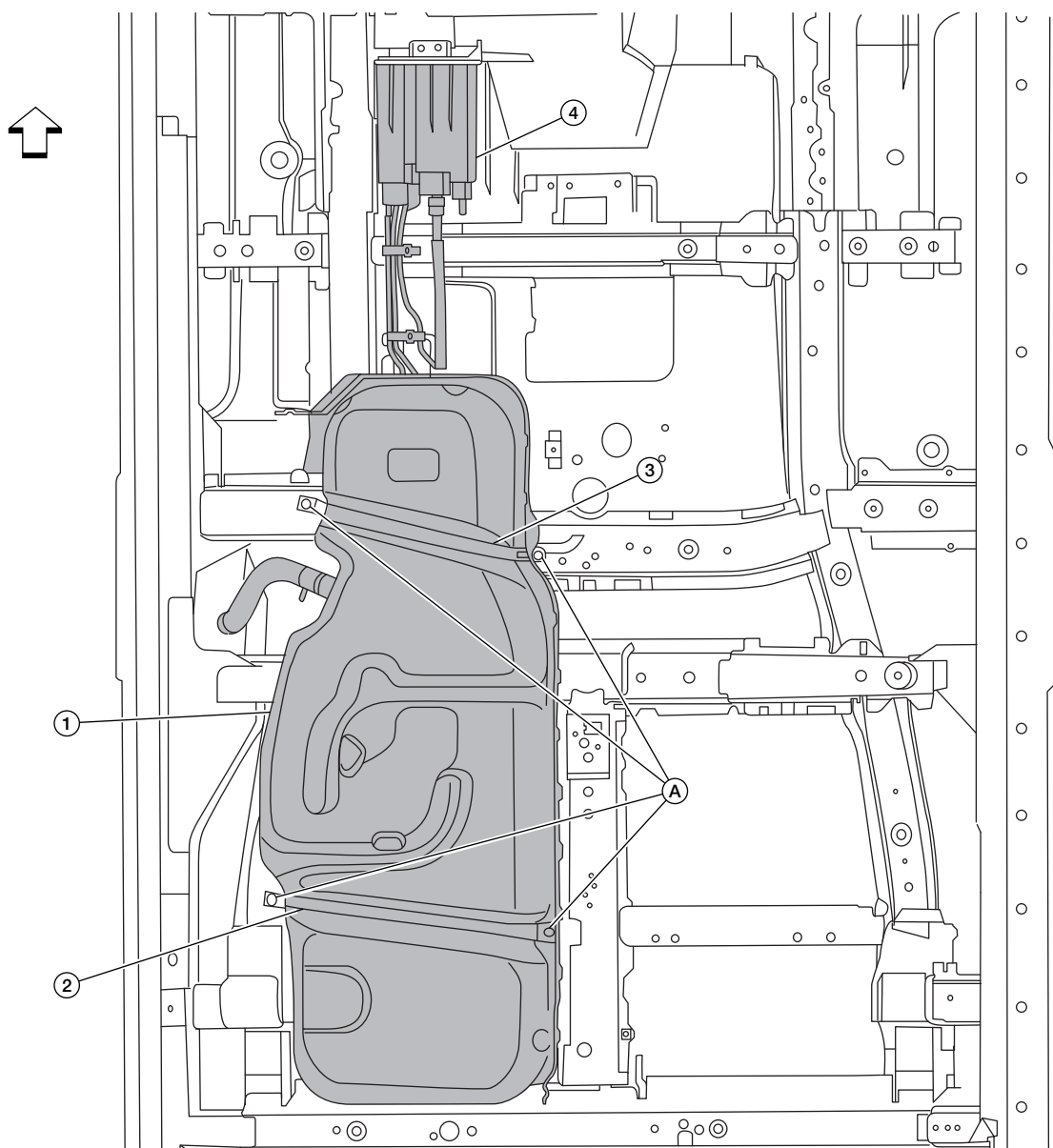
AAZIA0236ZZ

↩: Front of vehicle.

- |                           |                        |                     |
|---------------------------|------------------------|---------------------|
| 1. EVAP canister assembly | 2. Fuel tank protector | 3. Fuel tank        |
| 4. Front tank strap       | 5. Clamp               | 6. Fuel filler hose |
| 7. Rear tank strap        | 8. EVAP vent tube      |                     |

## TANK LOCATION

## Tank Mounting — 2013-2017 Model Years



AAZIA0237ZZ

← : Front of vehicle.

1. Fuel tank

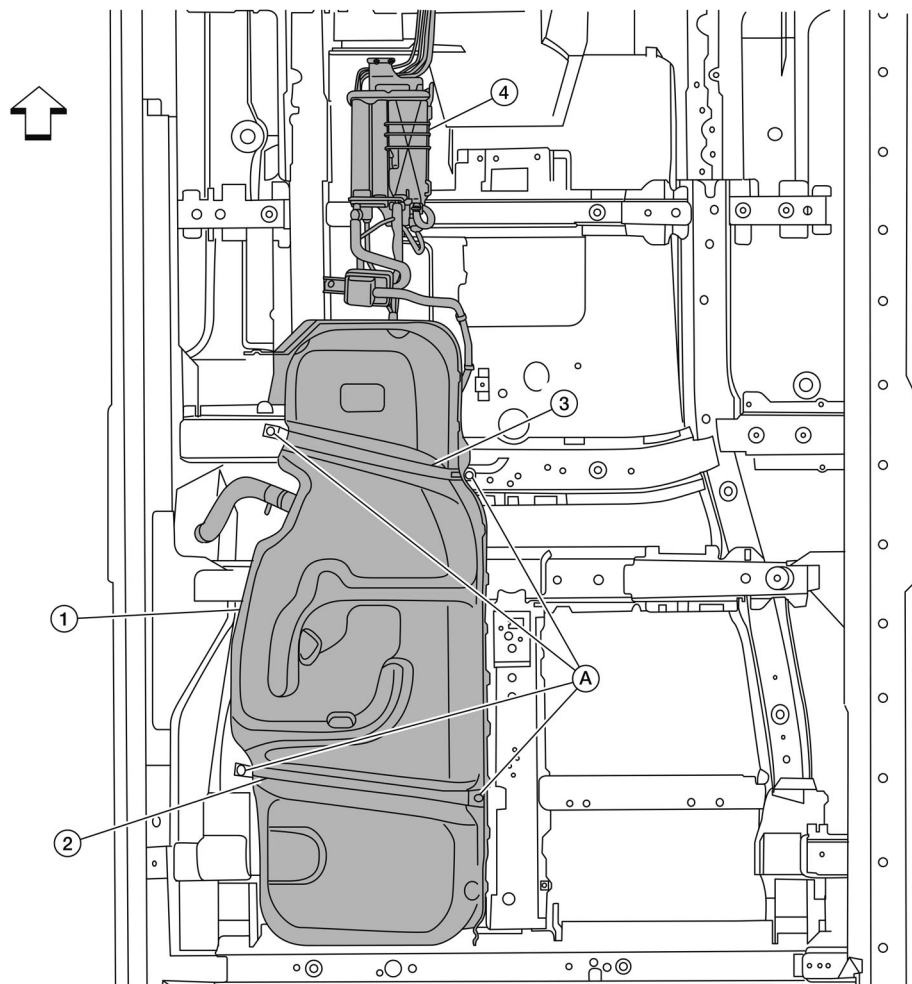
2. Rear tank strap

3. Front tank strap

4. EVAP canister assembly

A. Fuel tank strap bolts

## Tank Mounting — 2018-2020 Model Years



AAZIA0237ZZ

↖ : Front of vehicle.

1. Fuel tank

2. Rear tank strap

3. Front tank strap

4. EVAP canister assembly

A. Fuel tank strap bolts

---

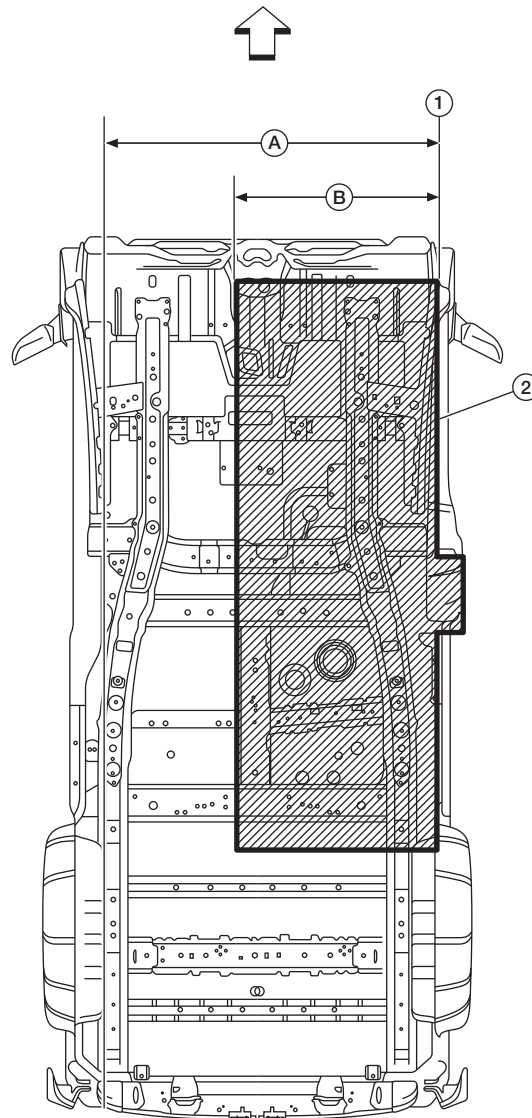
**Drilling Precaution Area****WARNING:**

Do not damage the fuel tank or lines when drilling through the floor in the area shown or component failure and personal injury may occur.

**CAUTION:**

When any vehicle modifications are performed, check for proper clearance between existing components or newly installed components. Failure to do so may result in vehicle or component damage.

## Fuel Tank — Floor Area



AAZIA0214ZZ

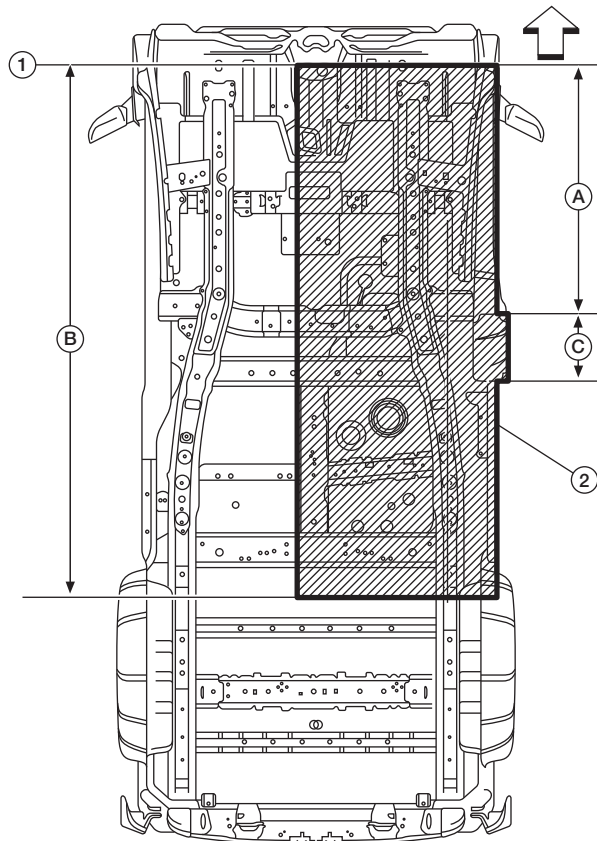
**NOTE:****All dimensions and reference lines are shown with cargo mat removed.**

: Front of vehicle.

1. Slide door weatherstrip pinch weld (reference line)      2. Fuel tank drill precaution zone line

A. 1,366 mm (53.8 in)

B. 730 mm (28.7 in)



AAZIA0598ZZ

**NOTE:**

**All dimensions and reference lines are shown with cargo mat removed.**

↖ : Front of vehicle.

1. Front door jamb front at floor (reference line)

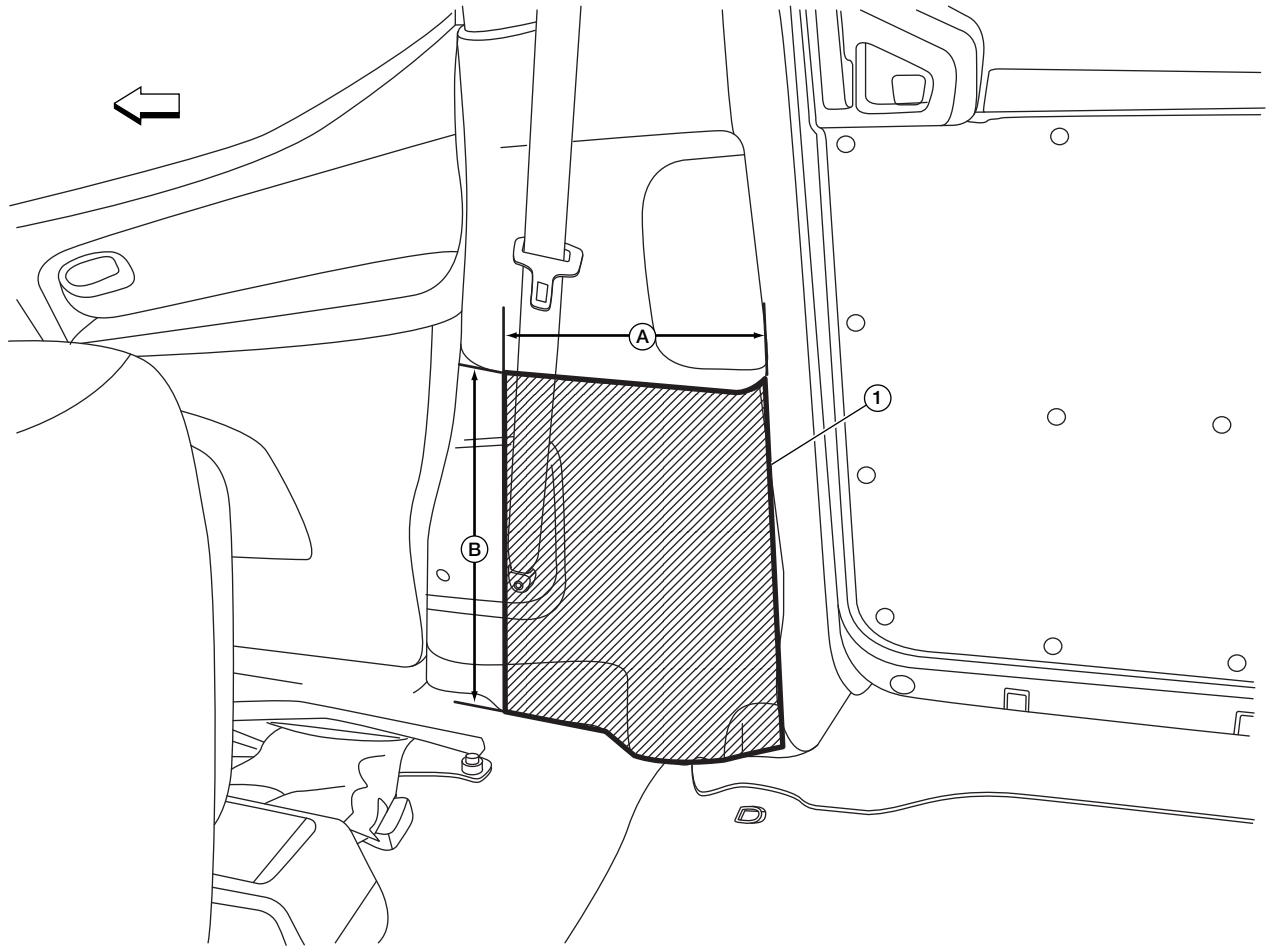
2. Fuel tank drill precaution zone

A. 920 mm (36.2 in)

B. 1,930 mm (76.0 in)

C. 210 mm (38.3 in)

## Fuel Filler Neck — B-Pillar Area



AAZIA0233ZZ

↖ : Front of vehicle.

1. Fuel filler area drill precaution zone

A. 300 mm (11.8 in)

B. 400 mm (15.7 in)



# TRAILER TOW

Do not tow a trailer with this vehicle. This vehicle is not equipped with trailer tow equipment.

---

# DESIGN REQUIREMENTS FOR MODIFICATIONS

## COOLING

### Engine Cooling System



#### **CAUTION:**

No modification to the engine cooling system (radiator, radiator shroud, cooling fans, liquid cooling circuit, etc.) is allowed. Sufficient air passage to the radiator must be maintained, therefore, do not block the air passage through the radiator grille to the radiator with publicity plates, posters, trim or other decorative elements. Reduced air flow can cause overheating and could lead to component damage.

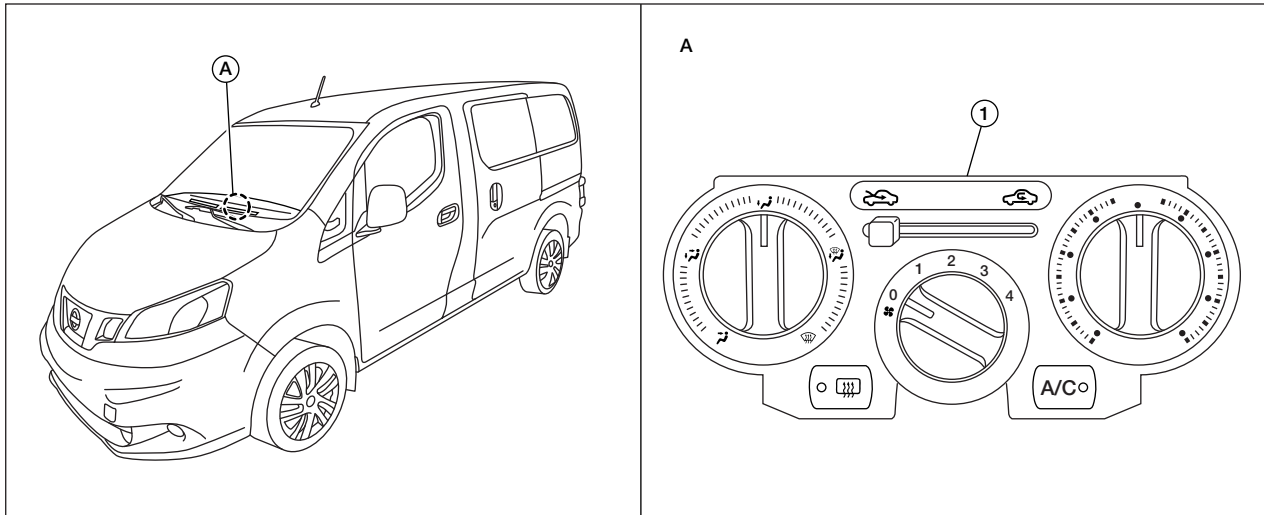
## HVAC

### Changes To The HVAC System

Changes to the HVAC system are not recommended. For liquid connection information, service data and specifications, refer to the service manual.

### HVAC System Component Locations

#### MANUAL AIR CONDITIONING SYSTEM



AAZIA0156ZZ

1. Front air control (shown with optional rear window defroster button).

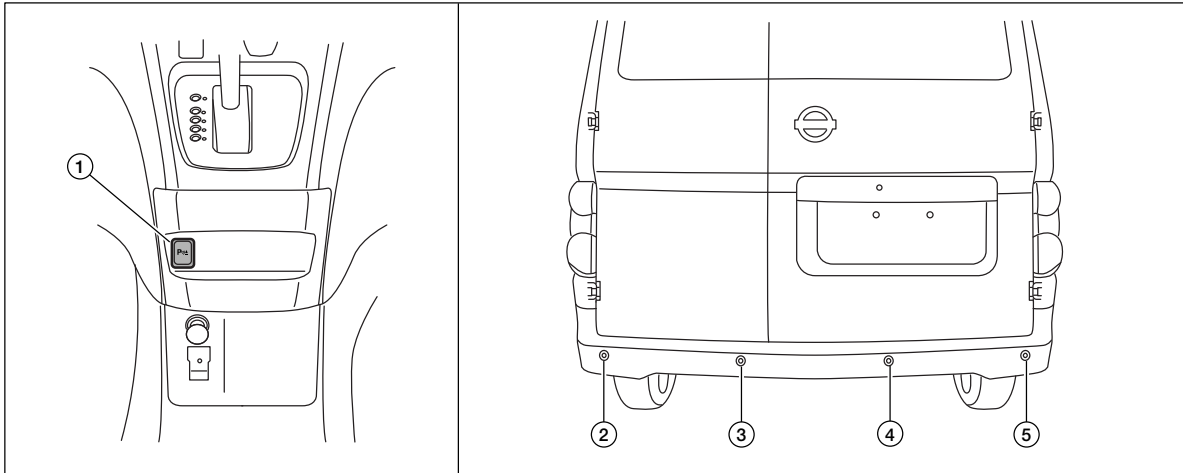
## SONAR SYSTEM

### [DESIGN REQUIREMENTS FOR MODIFICATIONS]

## SONAR SYSTEM

### Rear Sonar System

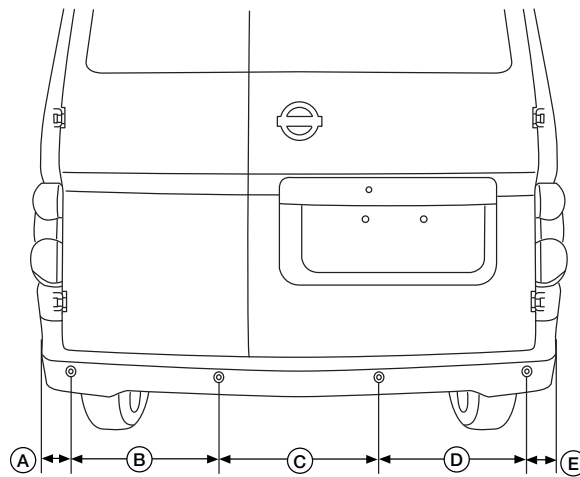
#### Component Parts Location



AAZIA0467ZZ

- |                               |                               |                               |
|-------------------------------|-------------------------------|-------------------------------|
| 1. Sonar system OFF switch    | 2. Rear sonar sensor LH outer | 3. Rear sonar sensor LH inner |
| 4. Rear sonar sensor RH inner | 5. Rear sonar sensor RH outer |                               |

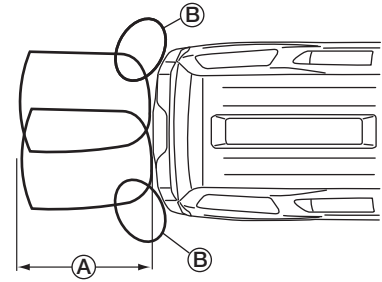
#### Sensor Layout Dimensions



AAZIA0468ZZ

- |                      |                      |                      |
|----------------------|----------------------|----------------------|
| A. 118 mm (4.65 in)  | B. 457 mm (17.99 in) | C. 456 mm (17.95 in) |
| D. 457 mm (17.99 in) | E. 118 mm (4.65 in)  |                      |

### Rear Sonar System Detection Area



AAZIA0253GB

A. 1,800 mm (70.87 in)

B. Decreased coverage area



### CAUTION:

**Do not install objects that interfere with the zone specified and the ability of the sonar system to function properly.**

The Rear Sonar System (RSS) sounds a tone to warn the driver of obstacles near the rear bumper when the shift selector is in R (Reverse). The system may not detect objects at speeds above 5 km/h (3 mph) and may not detect certain angular or moving objects.

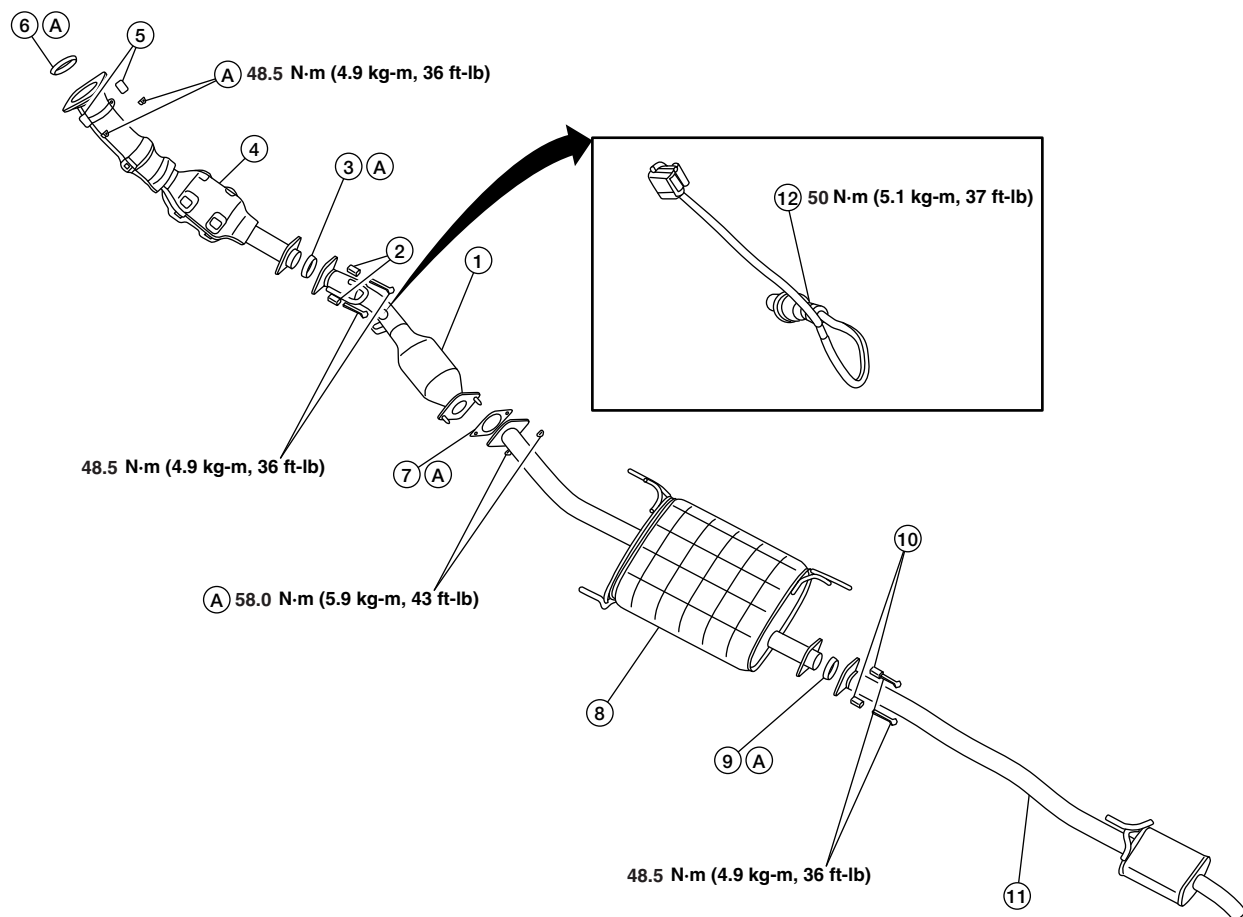
The RSS detects obstacles up to 1.8 m (5.9 feet) from the rear bumper (A) with a decreased coverage area at the outer corners of the bumper (B) (refer to the illustration for approximate zone coverage areas). As you move closer to the obstacle, the rate of the tone increases. When the obstacle is less than 25.0 cm (10 inches) away, the tone will sound continuously. If the RSS detects a stationary or receding object further than 25.0 cm (10 inches) from the side of the vehicle, the tone will sound for only three seconds. Once the system detects an object approaching, the tone will sound again.

The RSS automatically turns on when the shift selector is placed in R (Reverse) and the ignition switch is placed in the ON position. The RSS OFF switch on the instrument panel allows the driver to turn the RSS on and off. To turn the RSS off, the ignition must be placed in the ON position. An indicator light on the switch will illuminate when the system is turned off. If the indicator light illuminates when the RSS is not turned off, it may indicate a malfunction in the RSS.

## EXHAUST

### Exhaust System

Changes to the exhaust system are not recommended.



## EXHAUST

### [DESIGN REQUIREMENTS FOR MODIFICATIONS]

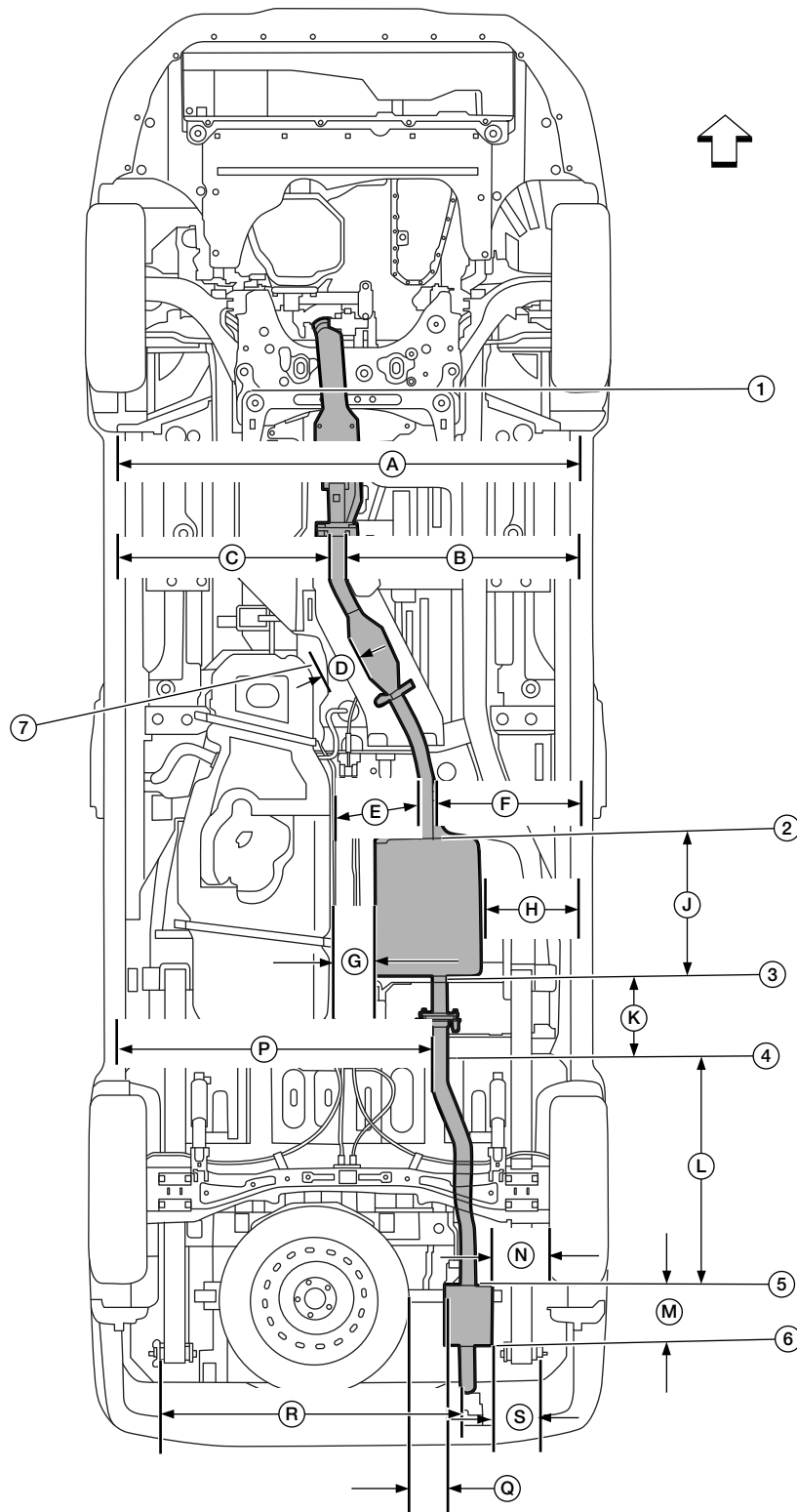
---

- |                              |                                     |                          |
|------------------------------|-------------------------------------|--------------------------|
| 1. Intermediate exhaust tube | 2. Exhaust bolt springs             | 3. Ring gasket           |
| 4. Front exhaust tube        | 5. Exhaust bolt springs             | 6. Ring gasket           |
| 7. Gasket                    | 8. Main muffler                     | 9. Ring gasket           |
| 10. Exhaust bolt springs     | 11. Tailpipe with secondary muffler | 12. Heated oxygen sensor |
- A. Always replace after every disassembly

## EXHAUST

### [DESIGN REQUIREMENTS FOR MODIFICATIONS]

#### Exhaust Measurements



AAZIA0188ZZ

**NOTE:**  
Shown as viewed from below.

←: Front of vehicle.



## EXHAUST

### [DESIGN REQUIREMENTS FOR MODIFICATIONS]

1. Leading edge of bracket	2. Front edge of main muffler	3. Rear edge of main muffler
4. Rear edge of body channel	5. Front edge of secondary muffler	6. Rear edge of secondary muffler
7. Fuel tank heat shield	A. 1,470 mm (57.9 in)	B. 745 mm (29.3 in)
C. 670 mm (26.4 in)	D. 120 mm (4.7 in)	E. 265 mm (10.4 in)
F. 460 mm (18.1 in)	G. 122 mm (4.8 in)	H. 297 mm (11.7 in)
J. 460 mm (18.1 in)	K. 240 mm (9.4 in)	L. 730 mm (28.7 in)
M. 200 mm (7.9 in)	N. 200 mm (7.9 in)	P. 1,002 mm (39.4 in)
Q. 110 mm (4.3 in)	R. 993 mm (39.1 in)	S. 64 mm (2.5 in)



#### CAUTION:

**To prevent exhaust gas leaks and possible CO poisoning:**

- **Always replace exhaust gaskets and ring gaskets with new ones when reassembling.**
- **Temporarily tighten the nuts on the front and rear of the exhaust tubes. Check each part for interference with other components, and then tighten the nuts and bolts to specification.**

#### Inspection After Installation

- Check exhaust tube joints for exhaust gas leaks and unusual noises with the engine running.
- Check to ensure that mounting brackets and rubber insulators are installed properly and free from undue stress. Improper installation could result in excessive noise and vibration.

**WHEEL AND TIRE****General**

The replacement of the tires with those other than the ones indicated by Nissan is not recommended. Using tires of different make, size, type or characteristics on the same axle is not allowed. Using non-recommended tires could affect the performance of the Vehicle Dynamic Control (VDC) or other vehicle components. The NV200 Compact Cargo vehicle is designed to use commercial (C) rated tires only. Do not use passenger rated tires.

## STEERING AND SUSPENSION

### Vehicle Handling Information



#### **WARNING:**

- Changes made to the vehicle that significantly affect the ride height may cause vehicle control problems during sharp turns or sudden steering maneuvers. Any maneuvers of this type could result in an accident. The steering gear, intermediate shaft, coupling shaft, linkage, column, and steering wheel should not be altered or relocated. Steering linkage travel should not be restricted.



#### **WARNING:**

- Because the heat from welding on or near the suspension or steering components may damage or weaken the components, it is not authorized.
- Welding equipment should not be grounded to any of the suspension components.
- Any new components attached to the steering column or its components must not interfere with the steering column performance during either normal operation or crash situations.
- New components and/or the vehicle load must not exceed the front and rear GAWRs or the GVWR.

#### **NOTE:**

The aftermarket equipment manufacturer, second stage manufacturer, and upfitter are responsible for maintaining or restoring the front wheel alignment after modifications to the vehicle are complete. The straight ahead orientation of the steering wheel must be maintained when re-adjusting the front wheel alignment. Changes to the vehicle center of gravity will affect handling. The upfitter is responsible for maintaining compliance with the Federal or Canada Motor Vehicle Safety Standards and Nissan guidelines, in regards to the center of gravity and vehicle handling characteristics.

**DRIVELINE****CAUTION:**

Any deviation from Nissan specifications may adversely affect powertrain operation, including engine, transmission, or component reliability. The aftermarket equipment manufacturer, second stage manufacturer, and upfitter are responsible for maintaining the specifications after the completion of any modifications.

## TRANSMISSION



### **CAUTION:**

- The engine and transmission position relative to the shift linkage must not be altered.
- The transmission vent must not be altered, pinched, collapsed, restricted or relocated.
- The spacing for tool access for transmission adjustments or removal must be maintained.
- Transmission oil cooler lines should not be kinked, bent, or restricted. All oil cooler lines must be properly retained with adequate clips.
- The shift cable, external transmission shift lever, and shift cable bracket must not be altered.
- Transmission identification tags must not be removed or destroyed.
- All transmission wire harness routing, locating clips, heat shielding, and clearance to the exhaust must be maintained as installed by the factory.

## UNIBODY AND FRAME



### **WARNING:**

**Failure to follow the recommendations below may weaken the vehicle structure, which could result in death or serious injury.**

- **Do not modify or alter the front crush horns. Modifications or alterations could adversely affect the vehicle in a crash.**

The vehicle structure is a unibody design with high strength steel support areas. High strength steel locations are not intended for modification. Refer to [HIGH STRENGTH STEEL LOCATIONS \(pg. 214\)](#) in this section.

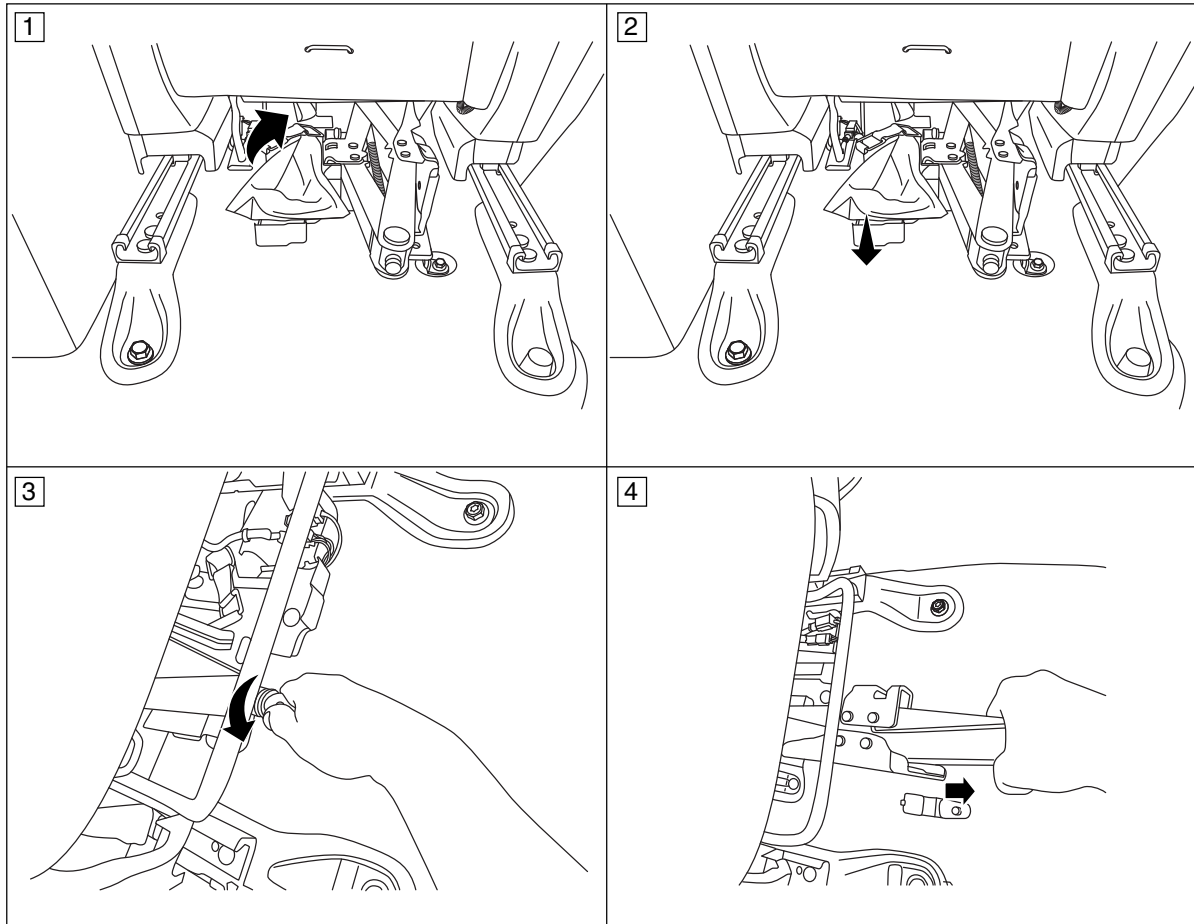
### JACK

#### Jacking and Lifting Points

#### Jack Storage

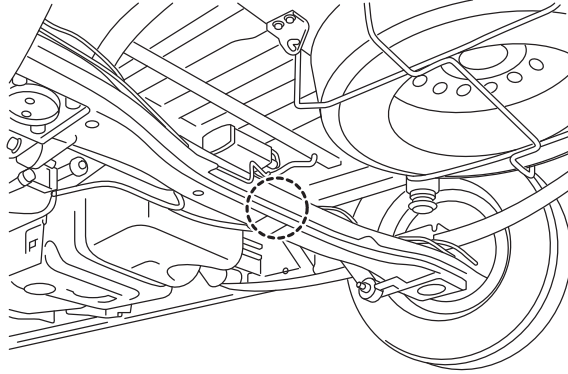
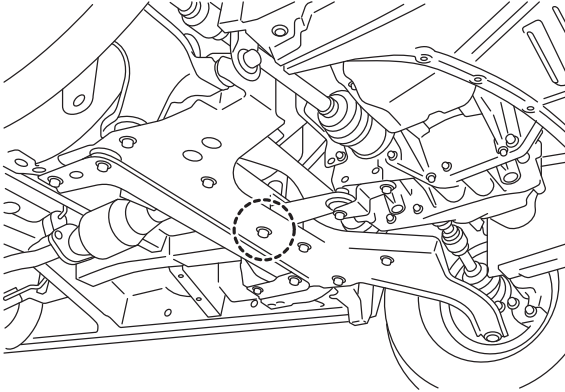
#### NOTE:

Jack and tools are stored under front passenger seat.



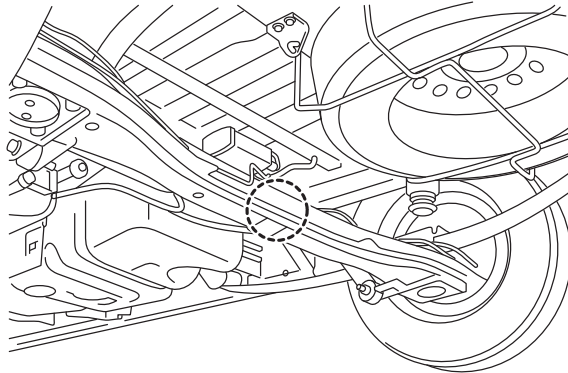
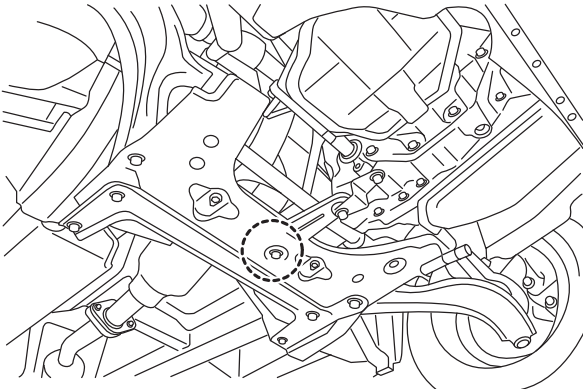
AAZIA0217ZZ

### Garage Jack Points — 2013-2014 Model Years



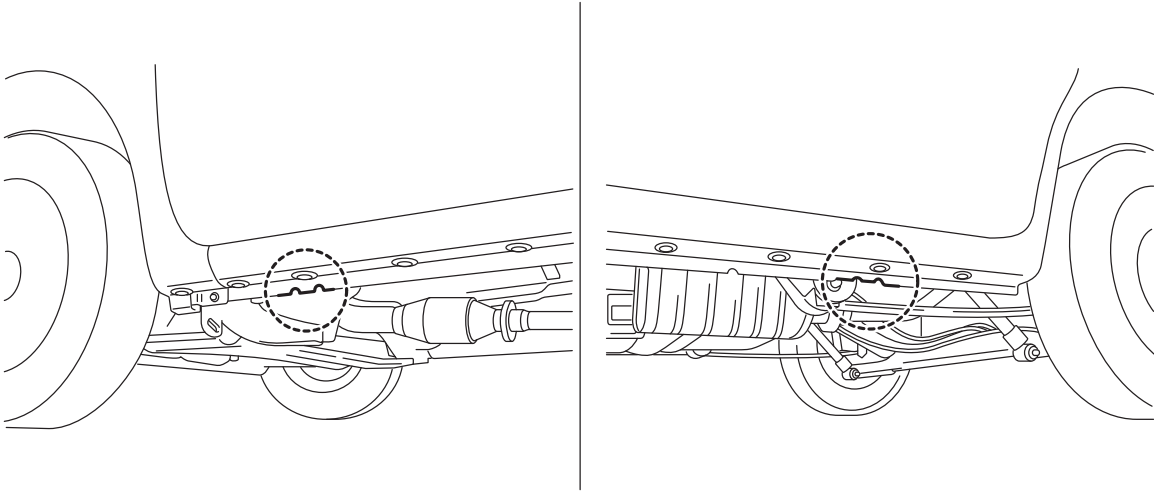
AAZIA0158ZZ

### Garage Jack Points — 2015-2020 Model Years



AAZIA0469ZZ



**2 Pole Lift Points**

AAZIA0159ZZ

## HIGH STRENGTH STEEL LOCATIONS

### Precaution in Repairing High Strength Steel (HSS)



#### **WARNING:**

- While working, suitable work clothes, a work cap and safety shoes must be worn. To prevent burns, a long sleeve shirt and trousers must also be worn and must not be taken off under any circumstance.
- Before starting repair work, be sure to disconnect the negative terminal of the battery.
- Pay attention to ventilation and health of the operators.
- Paint and sealants may generate poisonous gases when heated by fire.



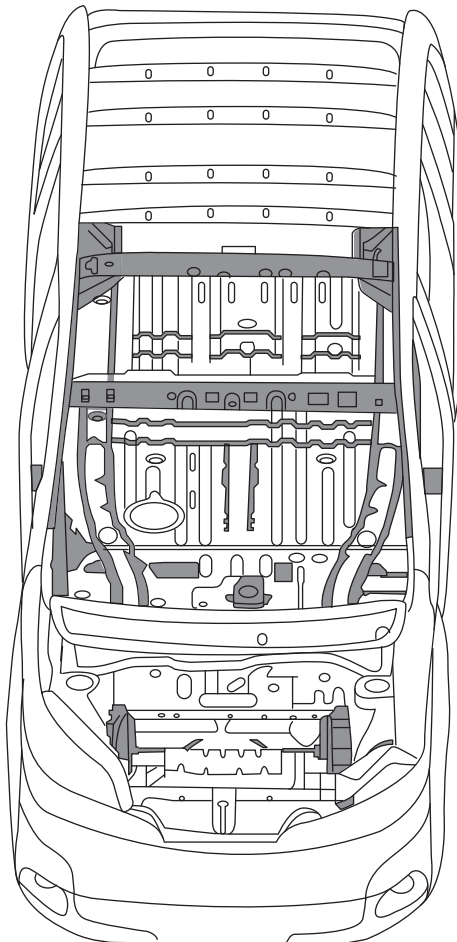
#### **WARNING:**

**Do not heat, bend, or cut high strength steel or the structural integrity of the vehicle may be compromised.**

### High Strength Steel Locations

The grey shading in the following illustrations indicate body areas with high strength steel (HSS).

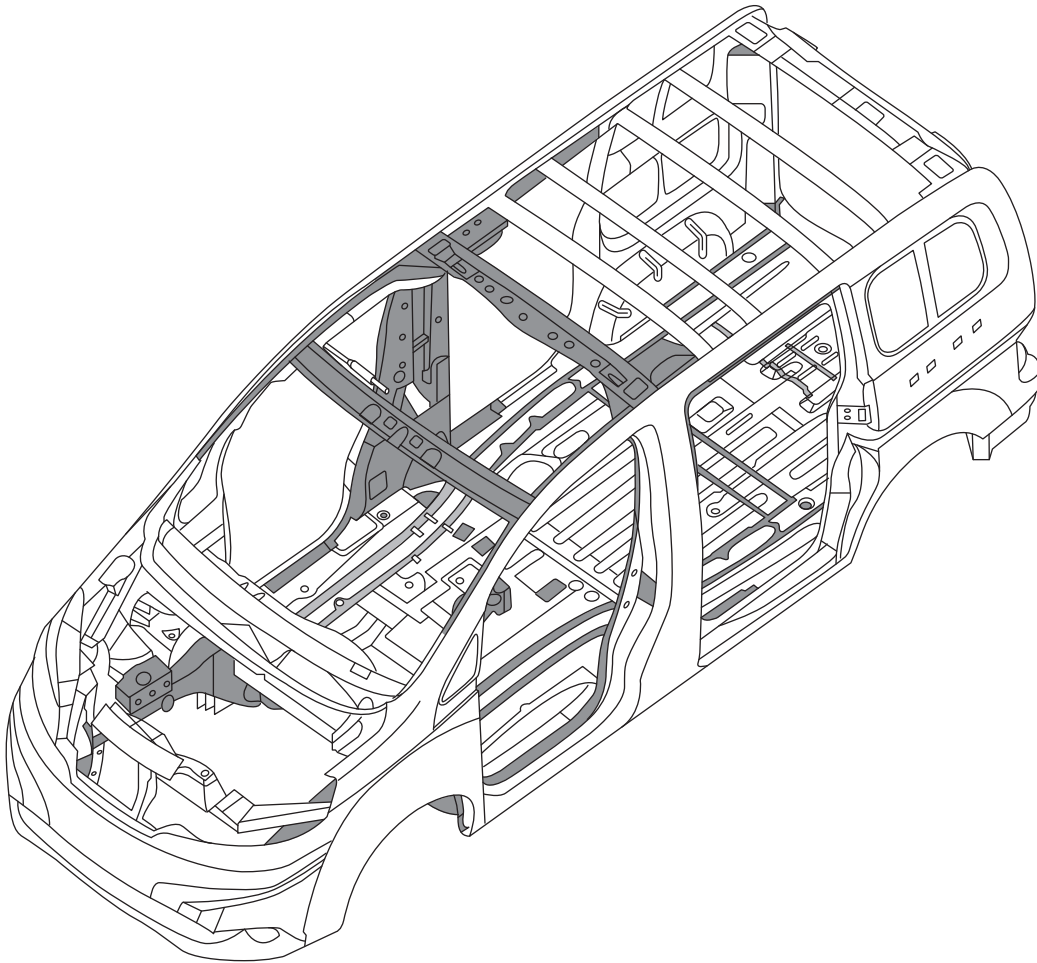
#### Front



## HIGH STRENGTH STEEL LOCATIONS

[DESIGN REQUIREMENTS FOR MODIFICATIONS]

Front Left Side

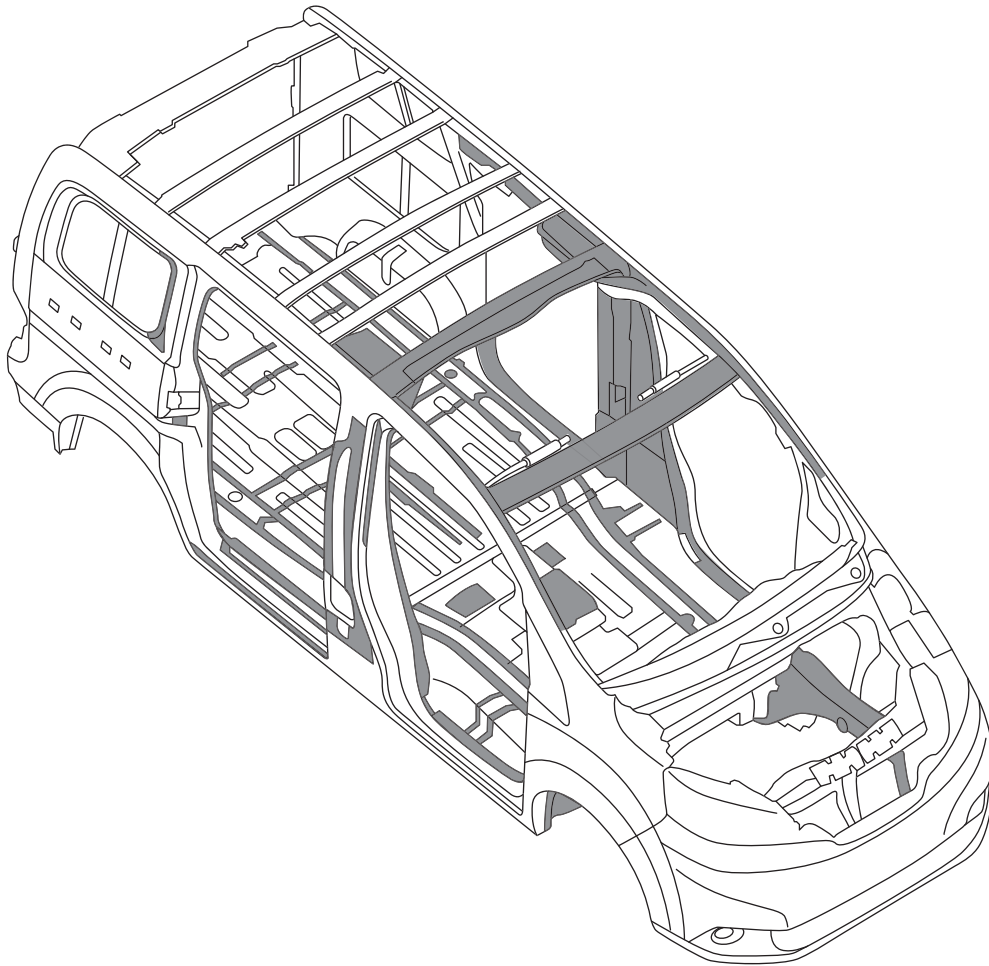


AAZIA0130ZZ

## HIGH STRENGTH STEEL LOCATIONS

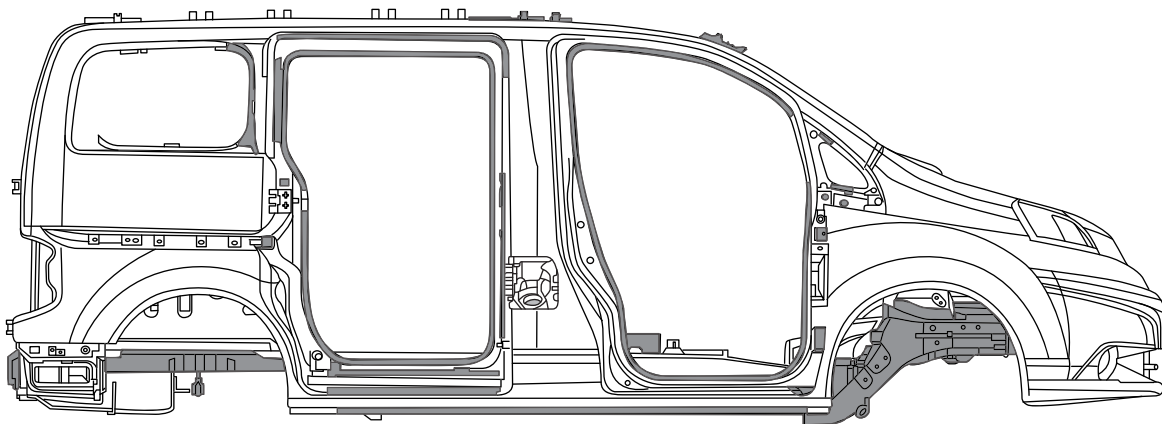
[DESIGN REQUIREMENTS FOR MODIFICATIONS]

Front Right Side



AAZIA0131ZZ

Right Side

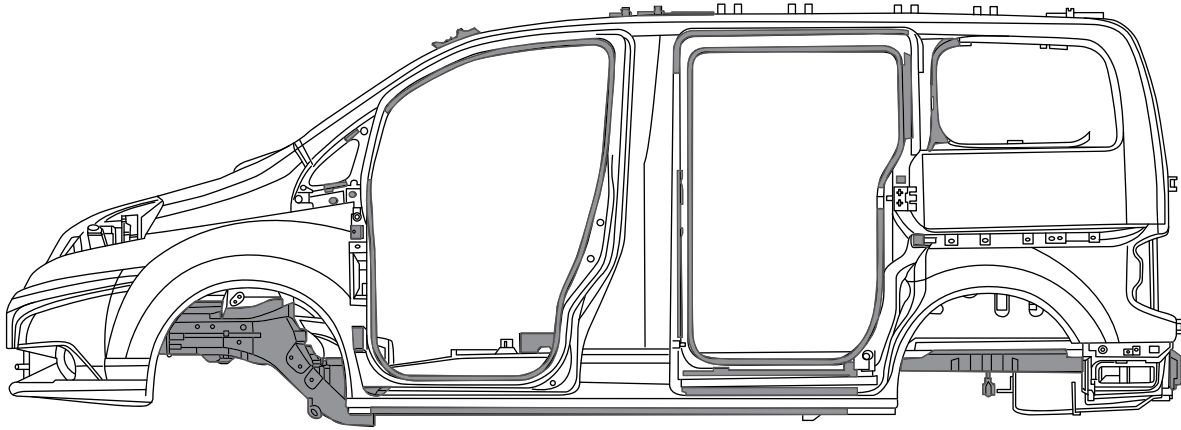


AAZIA0132ZZ

## HIGH STRENGTH STEEL LOCATIONS

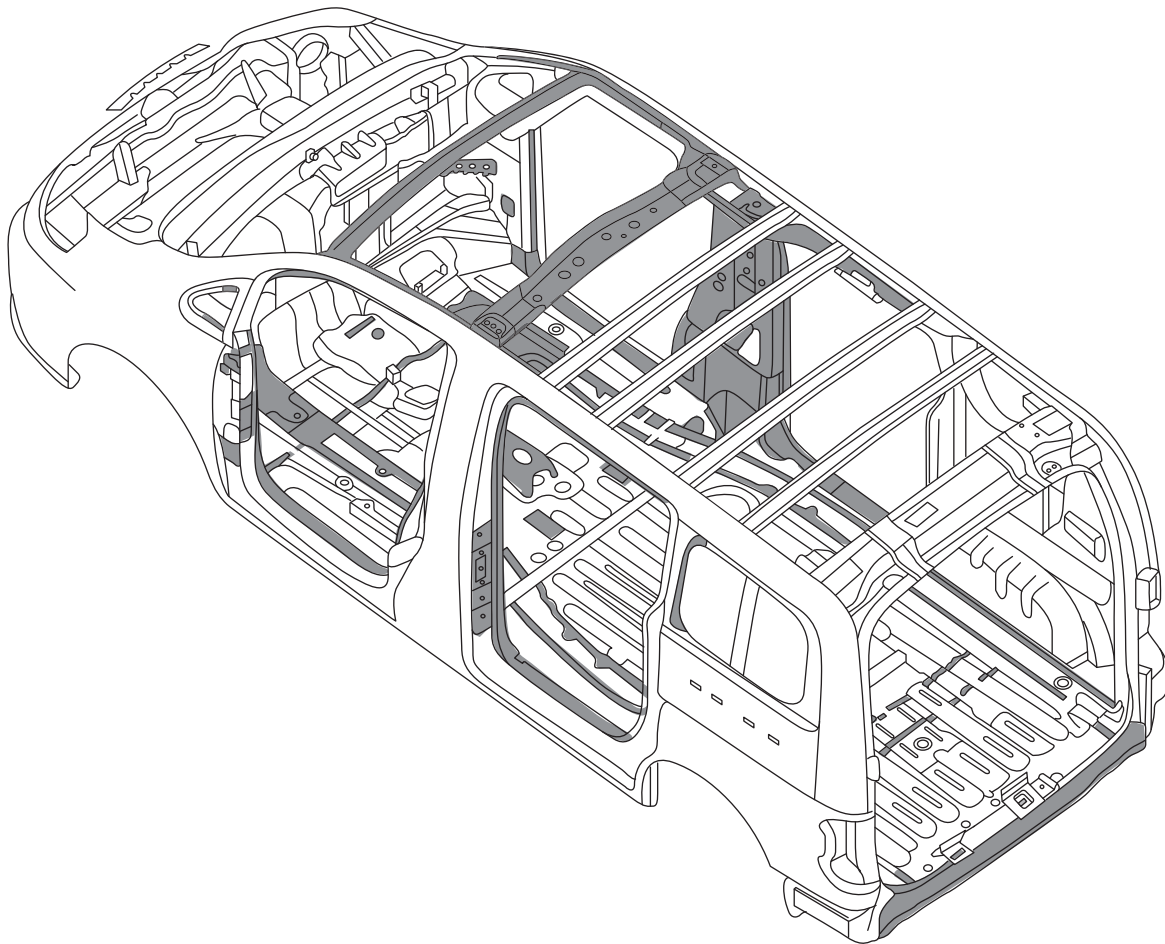
[DESIGN REQUIREMENTS FOR MODIFICATIONS]

**Left Side**



AAZIA0133ZZ

**Rear Left Side**

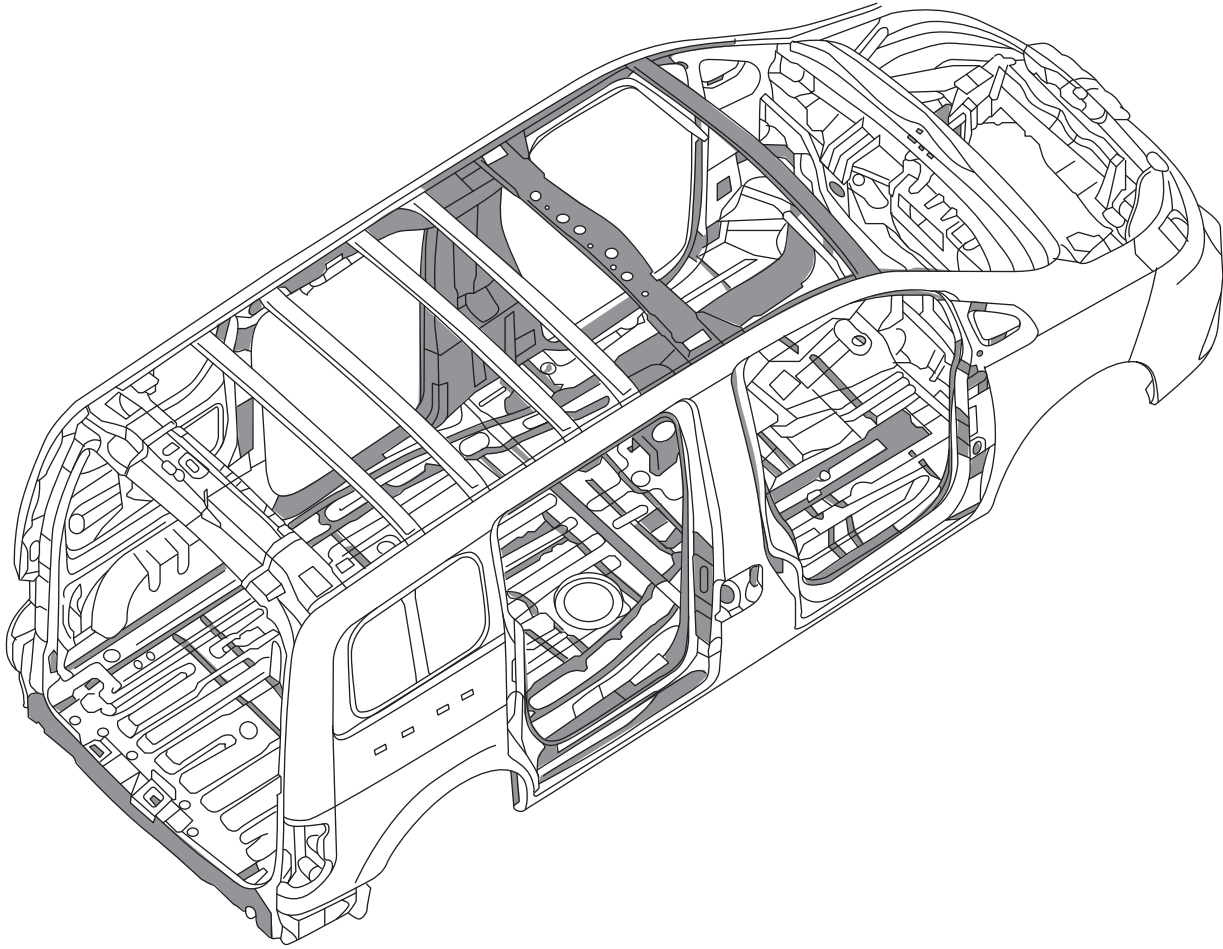


AAZIA0134ZZ

## HIGH STRENGTH STEEL LOCATIONS

[DESIGN REQUIREMENTS FOR MODIFICATIONS]

### Rear Right Side

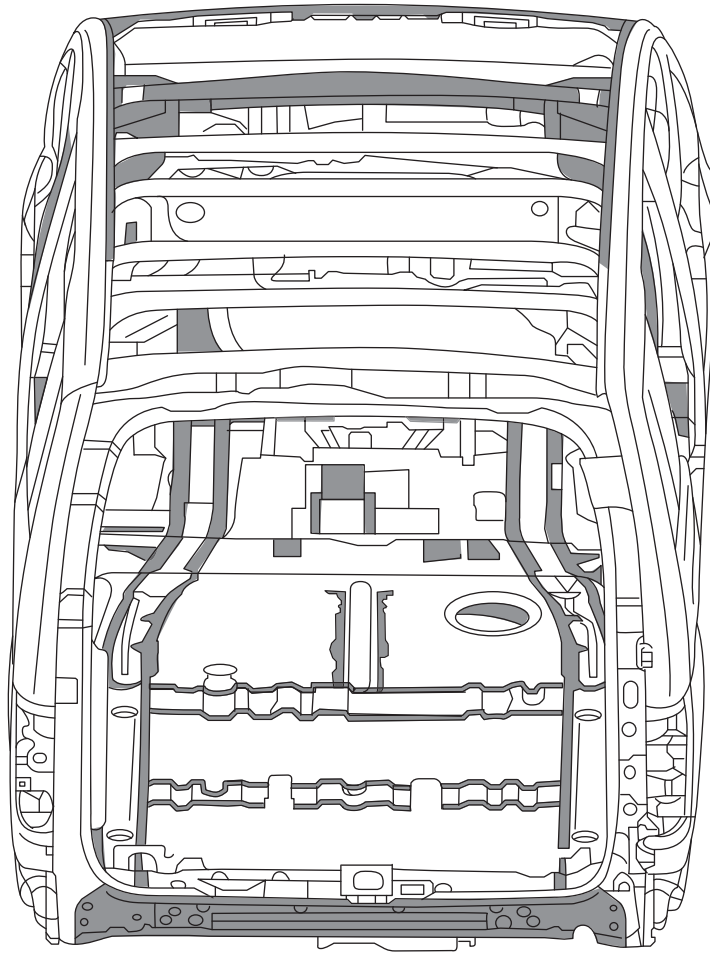


AAZIA0135ZZ

## HIGH STRENGTH STEEL LOCATIONS

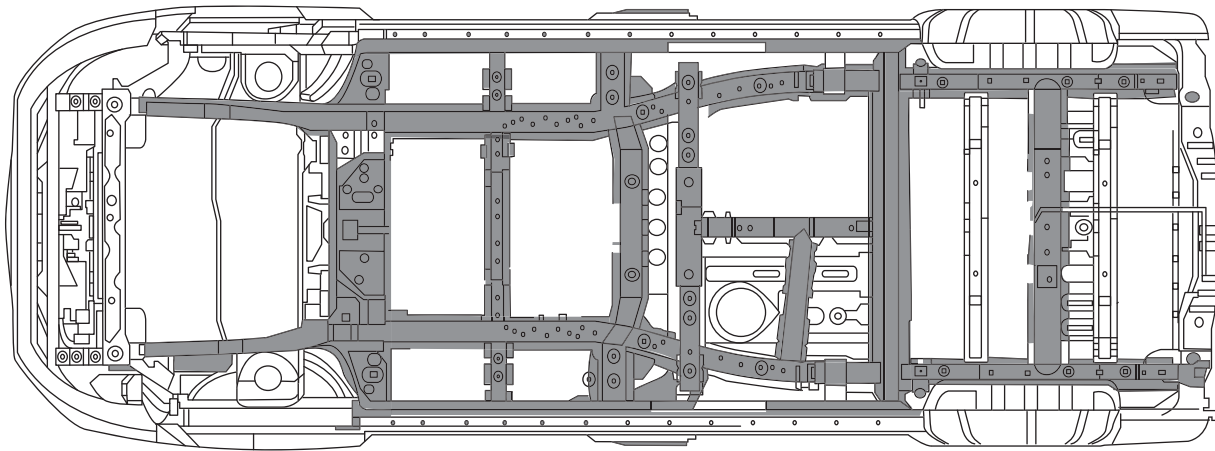
[DESIGN REQUIREMENTS FOR MODIFICATIONS]

Rear



AAZIA0136ZZ

## Floor



AAZIA0137ZZ

## WELDING

**WARNING:**

**Do not heat, bend, or cut high strength steel or the structural integrity of the vehicle may be compromised.**

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

**HSS Used in Nissan Vehicles**

Tensile strength	Major applicable parts
440 - 780 MPa	<ul style="list-style-type: none"> <li>• Front inner pillar upper</li> <li>• Front pillar hinge brace</li> <li>• Outer front pillar reinforcement</li> <li>• Other reinforcements</li> </ul>
980 - 1310 MPa	<ul style="list-style-type: none"> <li>• Outer sill reinforcement</li> <li>• Main back pillar</li> </ul>

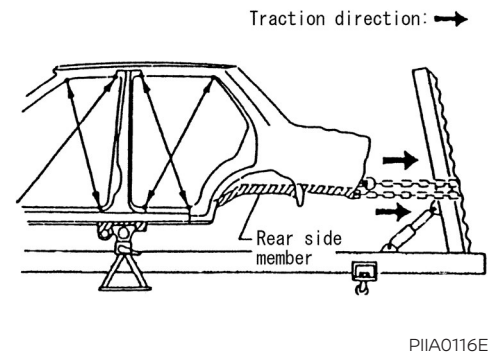
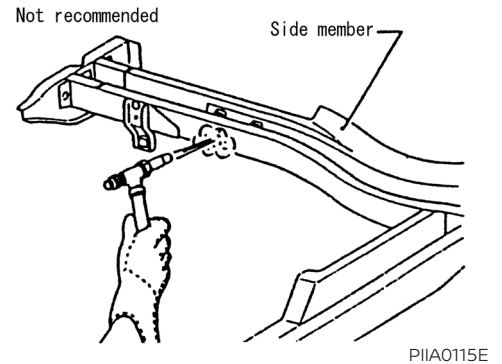


## WELDING

### [DESIGN REQUIREMENTS FOR MODIFICATIONS]

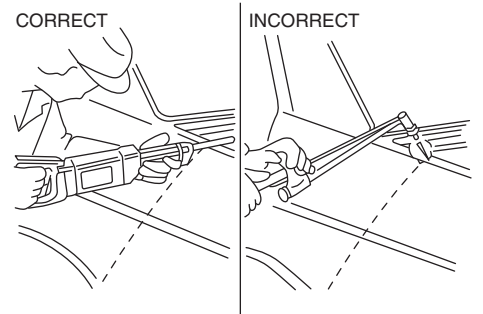
Read the following precautions when repairing HSS:

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 thermometers 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.



#### **WARNING:**

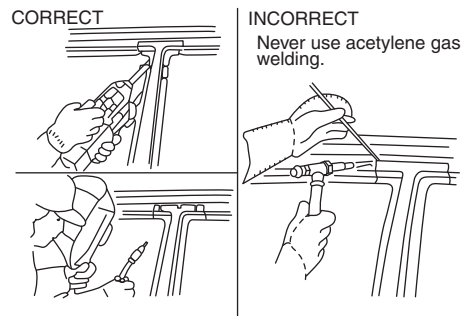
- **When cutting HSS panels, avoid gas (torch) cutting if possible. Instead, use a saw to avoid weakening surrounding areas due to heat. If gas (torch) cutting is unavoidable, allow a minimum margin of 50 mm (1.97 in). Changing the material properties could alter performance in the event of a crash.**





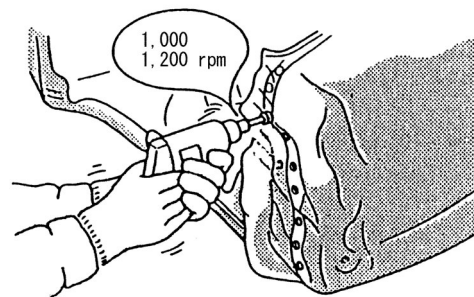
### WARNING:

- When welding HSS panels, use spot welding whenever possible in order to minimize weakening surrounding areas due to heat. Changing the material properties could alter performance in the event of a crash.
- If spot welding is impossible, use MIG welding. Do not use gas (torch) welding because it is inferior in welding strength and could have altered performance in the event of a crash.



AAZIA0241GB

- 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.



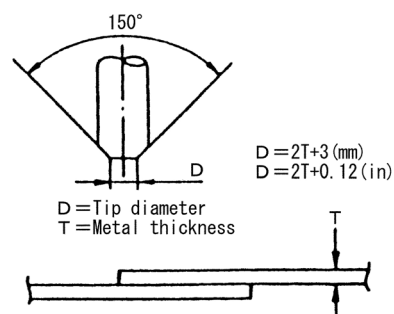
PIIA0145E

- SP150 HSS panels with a tensile strength of 785 to 981 N/mm<sup>2</sup> (80 to 100 kg/mm<sup>2</sup>, 114 to 142 lb/sq in), used as reinforcement in the door guard beams, is too strong to repair. When these HSS parts are damaged, the outer panels also sustain substantial damage; therefore, the assembly parts must be replaced.

#### 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.

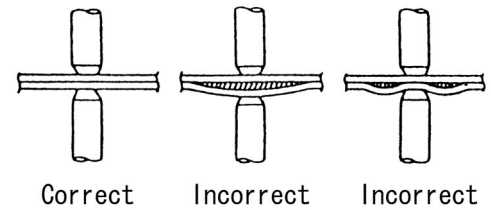


PIIA0146E

## WELDING

### [DESIGN REQUIREMENTS FOR MODIFICATIONS]

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



PIIA0147E

- Follow the specifications for the proper welding pitch.

**NOTE:**

The minimum welding pitch varies with the thickness of panels to be welded. In general, observe the values in the following table. Note that excessively small pitch allows the current to flow through surrounding portions, resulting in poor welding strength.

Thickness (T) mm (in)	Minimum pitch (L) mm (in)	
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	

## VEHICLE INTERIOR

### Modifications in the Vehicle Interior

#### General



#### **WARNING:**

**Do not modify or remove the wire mesh from any vehicle window. Doing so could cause death or serious injury.**

The body builder, conversion company or dealer are responsible for making sure the modifications or installed equipment do not affect the safety of the vehicle, including modifications which may result in a collision, property damage, personal injury or death, such as but not limited to:

- **The modifications should not affect the operation of the control units (pedals, switches, rods, etc.) located in the area affected by the modification.**
- **The ergonomic access to the controls for the driver must not be prevented by the installation of new components.**
- **The aftermarket equipment manufacturer, second stage manufacturer, and upfitter must ensure that any modifications that have been made to the cabin still meet the legal requirements regarding the interior and exterior characteristics.**

After any modification to the body that affect the acoustic and thermal insulation, the new and/or modified insulation must meet or exceed the original specifications.

Any modifications made by the aftermarket equipment manufacturer, second stage manufacturer, and upfitter must be properly sealed to protect against corrosion.

No new holes should be drilled to allow for attaching any new components to the roof of the cabin.

#### **Modifications in the Roof of the Cabin**

When attaching equipment to the roof, make sure that the added weight does not exceed the maximum roof load limit.

All components that pass through the external sheet metal (for electric cables, telephone aerials, etc.) must be properly sealed. Only Nissan approved products should be used.

Changes to the center of gravity should not exceed the maximum authorized height. Refer to [CENTER OF GRAVITY \(pg. 70\)](#)

**PAINT GENERAL INFORMATION**

The aftermarket equipment manufacturer, second stage manufacturer, and upfitter are responsible for repairing any damage to the paint incurred while modifying the vehicle.

Only Nissan specified paint should be used for these repairs. Refer to the BRM section in the Service Manual for information about the paint.

# PAINT WORK — 2013-2014 MODEL YEARS

[DESIGN REQUIREMENTS FOR MODIFICATIONS]

## PAINT WORK — 2013-2014 MODEL YEARS

Component		Color code	B23	K23	QM1	KH3	NAC
		Description	Blue	Silver	White	Black	Red
		Type	M	M	S	S	M
		Clear coat	n	n	n	n	n
Outside mirror	S	USA and Canada	Black				
	SV	USA	Black (standard) Body color (optional)				
		Canada	Body color				
Bumpers	S	USA and Canada	Black				
	SV	USA	Black (standard) Body color (optional)				
		Canada	Body color				
Outside handles	S	USA and Canada	Black				
	SV	USA	Black (standard) Body color (optional)				
		Canada	Body color				
Radiator grille	S	USA and Canada	Grey				
	SV	USA	Grey (standard) Chromium plate (optional)				
		Canada	Chromium plate				

M: Metallic; S: Solid; n: Non-primerless Clear Coat

# PAINT WORK — 2015-2017 MODEL YEARS

[DESIGN REQUIREMENTS FOR MODIFICATIONS]

## PAINT WORK — 2015-2017 MODEL YEARS

Component		Color code	RAQ	K23	QM1	KH3	NAH
		Description	Blue	Silver	White	Black	Red
		Type	M	M	S	S	M
		Clear coat	n	n	n	n	n
Outside mirror	S	USA and Canada	Black				
	SV	USA	Black (standard) Body color (optional)				
		Canada	Body color				
Bumpers	S	USA and Canada	Black				
	SV	USA	Black (standard) Body color (optional)				
		Canada	Body color				
Outside handles (front/slide)	S	USA and Canada	Black				
	SV						
Back door finisher with built-in door handle	S	USA and Canada	Black				
	SV	USA	Black (standard) Body color (optional)				
		Canada	Body color				
Radiator grille	S	USA and Canada	Grey				
	SV	USA	Grey (standard) Chromium plate (optional)				
		Canada	Chromium plate				

M: Metallic; S: Solid; n: Non-primerless Clear Coat

# PAINT WORK — 2018-2019 MODEL YEARS

[DESIGN REQUIREMENTS FOR MODIFICATIONS]

## PAINT WORK — 2018-2019 MODEL YEARS

Component		Color code	RAQ	K23	QM1	KH3	NAH
		Description	Blue	Silver	White	Black	Red
		Type	M	M	S	S	M
		Clear coat	n	n	n	n	n
Outside mirror	S	USA and Canada	Black				
	SV	USA and Canada	Body color				
Bumpers	S	USA and Canada	Black				
	SV	USA and Canada	Body color				
Outside handles (front/slide)	S	USA and Canada	Black				
	SV						
Back door finisher with built-in door handle	S	USA and Canada	Black				
	SV	USA and Canada	Body color				
Radiator grille	S	USA and Canada	Grey				
	SV	USA and Canada	Chromium plate				

M: Metallic; S: Solid; n: Non-primerless Clear Coat



## PAINT WORK — 2020 MODEL YEAR

[DESIGN REQUIREMENTS FOR MODIFICATIONS]

### PAINT WORK — 2020 MODEL YEAR

Component		Color code	K23	QM1	KH3	NAH
		Description	Silver	White	Black	Red
		Type	M	S	S	M
		Clear coat	n	n	n	n
Outside mirror	S	USA and Canada	Black			
	SV	USA and Canada	Body color			
Bumpers	S	USA and Canada	Body color			
	SV					
Outside handles (front/slide)	S	USA and Canada	Black			
	SV					
Back door finisher with built-in door handle	S	USA and Canada	Black			
	SV	USA and Canada	Body color			
Radiator grille	S	USA and Canada	Grey			
	SV	USA and Canada	Chromium plate			

M: Metallic; S: Solid; n: Non-primerless Clear Coat

## ADHESIVE INFORMATION

### [DESIGN REQUIREMENTS FOR MODIFICATIONS]

## ADHESIVE INFORMATION

### MSDS Information

Contact the product supplier for the latest MSDS (Material Safety Data Sheet) information.

Product Name	Code/Number	Supplier/Emergency Phone Numbers
Sunnex (adhesive for body)	SH-310	Sunstar Inc. <a href="http://www.sunstarea.com">www.sunstarea.com</a> 937-746-8575
Terostat (mastic adhesives)	06-1273 HM	Henkel Corporation <a href="http://www.henkel.com">www.henkel.com</a> USA 1-248-583-9300 Chemtrec emergency 1-800-424-9300
	SA-461	
	SA-462	
	SA-463	
Mastic adhesive	PCC-13A	EFTEC North America, L.L.C. <a href="http://www.eftec.com">www.eftec.com</a> 24 hour emergency 1-888-853-1758 Emergency transport 1-800-424-9300
Stiffener for outer panel	PE7000	NITTO Denko <a href="http://www.nitto.com">www.nitto.com</a> 81-6-6452-2101
Betaseal adhesive (Direct glassing)	57302	Dow Chemical Co. <a href="http://www.dow.com">www.dow.com</a> 24 hour emergency 1-989-636-4400 Customer Information 1-800-258-2436

# REPLACING BOLTS

## [DESIGN REQUIREMENTS FOR MODIFICATIONS]

### REPLACING BOLTS

**Tightening Torque Table**

Grade	Bolt size	Bolt diameter * mm	Pitch mm	Tightening torque (Without lubricant)							
				Hexagon head bolt				Hexagon flange bolt			
				N-m	kg-m	ft-lb	in-lb	N-m	kg-m	ft-lb	in-lb
4T	M6	6.0	1.0	5.5	0.56	4	49	7	0.71	5	62
	M8	8.0	1.25	13.5	1.4	10	—	17	1.7	13	—
			1.0	13.5	1.4	10	—	17	1.7	13	—
	M10	10.0	1.5	28	2.9	21	—	35	3.6	26	—
			1.25	28	2.9	21	—	35	3.6	26	—
	M12	12.0	1.75	45	4.6	33	—	55	5.6	41	—
			1.25	45	4.6	33	—	65	6.6	48	—
7T	M14	14.0	1.5	80	8.2	59	—	100	10	74	—
	M6	6.0	1.0	9	0.92	7	80	11	1.1	8	97
	M8	8.0	1.25	22	2.2	16	—	28	2.9	21	—
			1.0	22	2.2	16	—	28	2.9	21	—
	M10	10.0	1.5	45	4.6	33	—	55	5.6	41	—
			1.25	45	4.6	33	—	55	5.6	41	—
9T	M12	12.0	1.75	80	8.2	59	—	100	10	74	—
			1.25	80	8.2	59	—	100	10	74	—
	M14	14.0	1.5	130	13	96	—	170	17	125	—
	M6	6.0	1.0	11	1.1	8	—	13.5	1.4	10	—
	M8	8.0	1.25	28	2.9	21	—	35	3.6	26	—
			1.0	28	2.9	21	—	35	3.6	26	—
9T	M10	10.0	1.5	55	5.6	41	—	80	8.2	59	—
			1.25	55	5.6	41	—	80	8.2	59	—
	M12	12.0	1.75	100	10	74	—	130	13	96	—
			1.25	100	10	74	—	130	13	96	—
	M14	14.0	1.5	170	17	125	—	210	21	155	—

\* Nominal diameter

1. Special parts are excluded.
2. This standard is applicable to bolts having the following marks embossed on the bolt head.

Grade	Mark	
4T	..... 4	
7T	..... 7	
9T	..... 9	

# ADD ON EQUIPMENT

## ANTI-CORROSION PROTECTION

**CAUTION:**

**When any vehicle modifications are performed, check for proper clearance between existing components or newly installed components. Failure to do so may result in vehicle or component damage.**

**CAUTION:**

**Failure to refinish bare metal will result in corrosion.**

The basic steps to refinish bare metal are as follows:

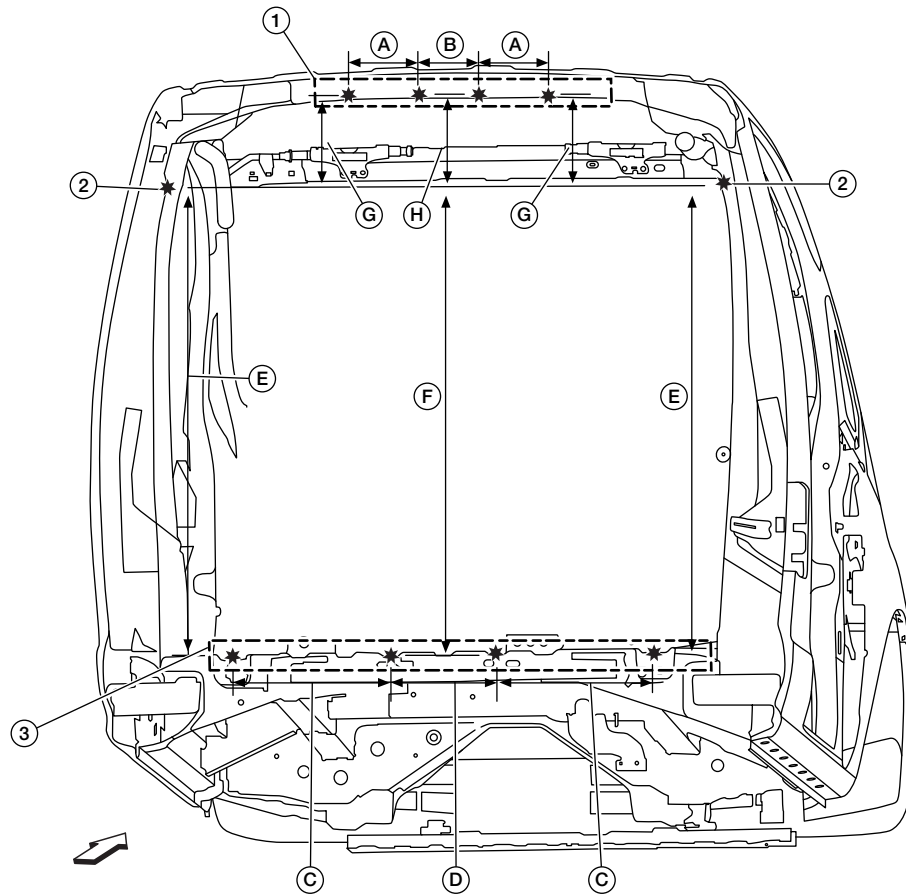
1. Prep the metal surface(s) as follows:
  - A. Remove burrs from the edges with a file or sandpaper.
  - B. Thoroughly clean the metal with solvent and allow to completely dry.
  - C. Apply self-etching primer to all bare metal.
  - D. Allow primer to properly dry.
2. Apply base coat paint and allow to properly dry.
3. Apply clear coat and allow to properly dry.
4. Apply Genuine NISSAN Bitumen Wax (part number 999MP-9G001P) available at a NISSAN dealer.

## **SHELVING AND BULKHEAD INSTALLATION**

### **Bulkhead**

The bulkhead should be attached to the Nissan supplied weld nuts in the roof crossmember and the floor. No new attachment points should be added. Loading should be distributed evenly utilizing as many mounting points as possible.

Before bulkhead installation, it is necessary to cut away the rear portion of the headlining to avoid interference with the side curtain air bags deployment zones. The headlining should not be trapped, pinched or glued to the bulkhead. To correctly measure the headlining cut line, refer to [HEADLINING CUT – FRONT SIDE CURTAIN AIR BAGS CLEARANCE FOR BULKHEAD INSTALLATION](#) (pg. 25).



AAZIA0140ZZ

← : Front of vehicle.

\* Weld nut locations for bulkhead installation; All bolts are M8 x 1.25

1. Mounting point loading not to exceed 10 kg (22 lbs) per point. Total loading across these 4 mounting points not to exceed 40 kg (88 lbs).

2. Mounting point loading not to exceed 10 kg (22 lbs) per point. Points may be plugged with M8 bolts.

3. Mounting point loading not to exceed 10 kg (22 lbs) per point. Total loading across these 4 mounting points not to exceed 40 kg (88 lbs).

A. 165 mm (6.5 in)

B. 138 mm (5.4 in)

C. 375 mm (14.8 in)

D. 255 mm (10.0 in)

E. 1,125 mm (44.3 in)

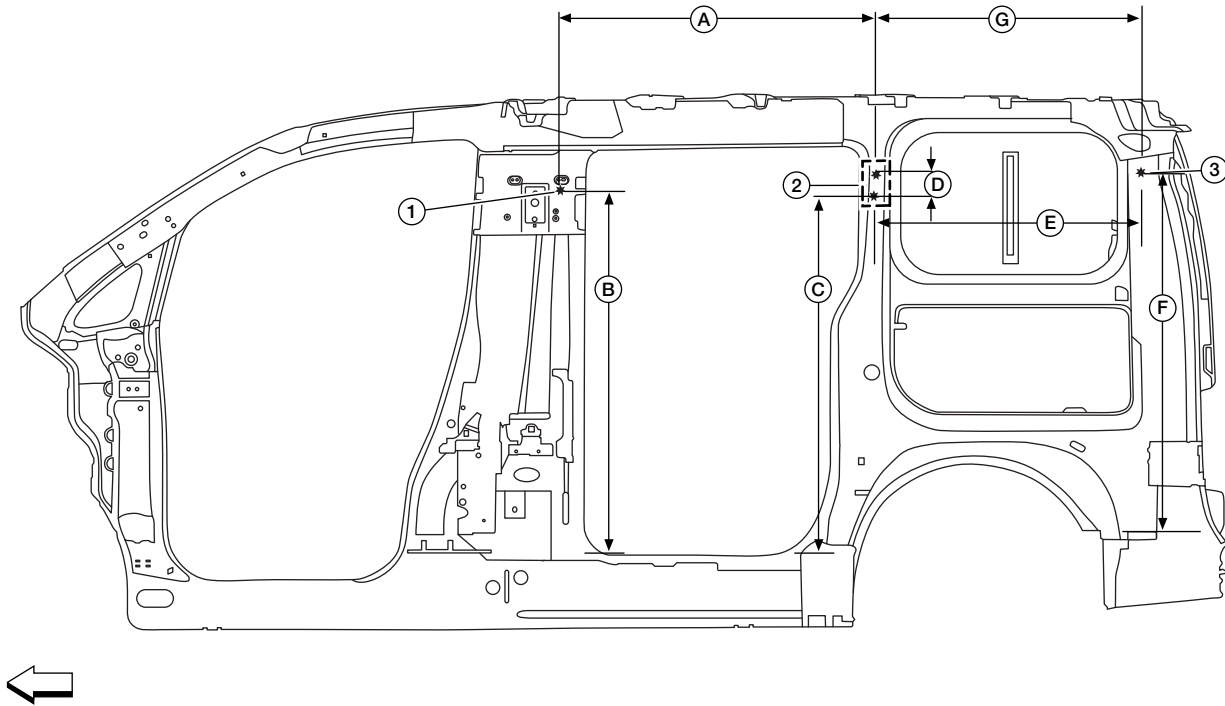
F. 1,135 mm (44.7 in)

G. 173 mm (6.8 in)

H. 193 mm (7.6 in)

## RH Body Side and D-pillar Inner

RH body side inner as viewed from inside the vehicle. Loading should be distributed evenly, utilizing as many mounting points as possible.



AAZIA0309ZZ

←: Front of vehicle.

\* Weld nut locations; All bolts are M8 x 1.25.

1. Bulkhead mounting weld nut

Mounting point loading not to exceed 10 kg (22 lbs). Point may be plugged with M8 bolt.

2. Mounting point loading not to exceed 10 kg (22 lbs) per point. Maximum loading across these 2 mounting points not to exceed 20 kg (44 lbs).

3. Mounting point loading not to exceed 10 kg (22 lbs).

A. 925 mm (36.42 in)

B. 1,091 mm (42.95 in)

C. 1,035 mm (40.7 in)

D. 60 mm (2.4 in)

E. 805 mm (31.7 in)

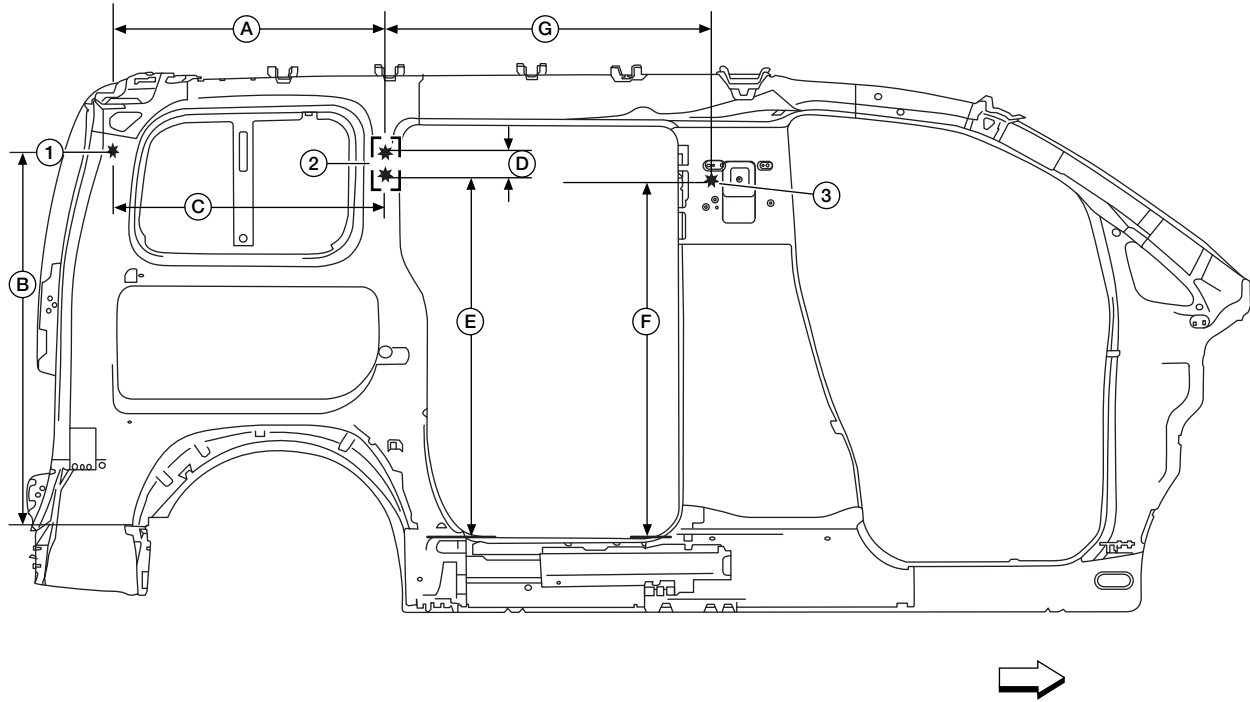
F. 1,092 mm (43.0 in)

From weld nut to metal floor

G. 795 mm (31.3 in)

## LH Body Side and D-pillar Inner

LH body side inner as viewed from inside the vehicle. Loading should be distributed evenly, utilizing as many mounting points as possible.



AAZIA0308ZZ

← : Front of vehicle.

\* Weld nut locations; All bolts are M8 x 1.25

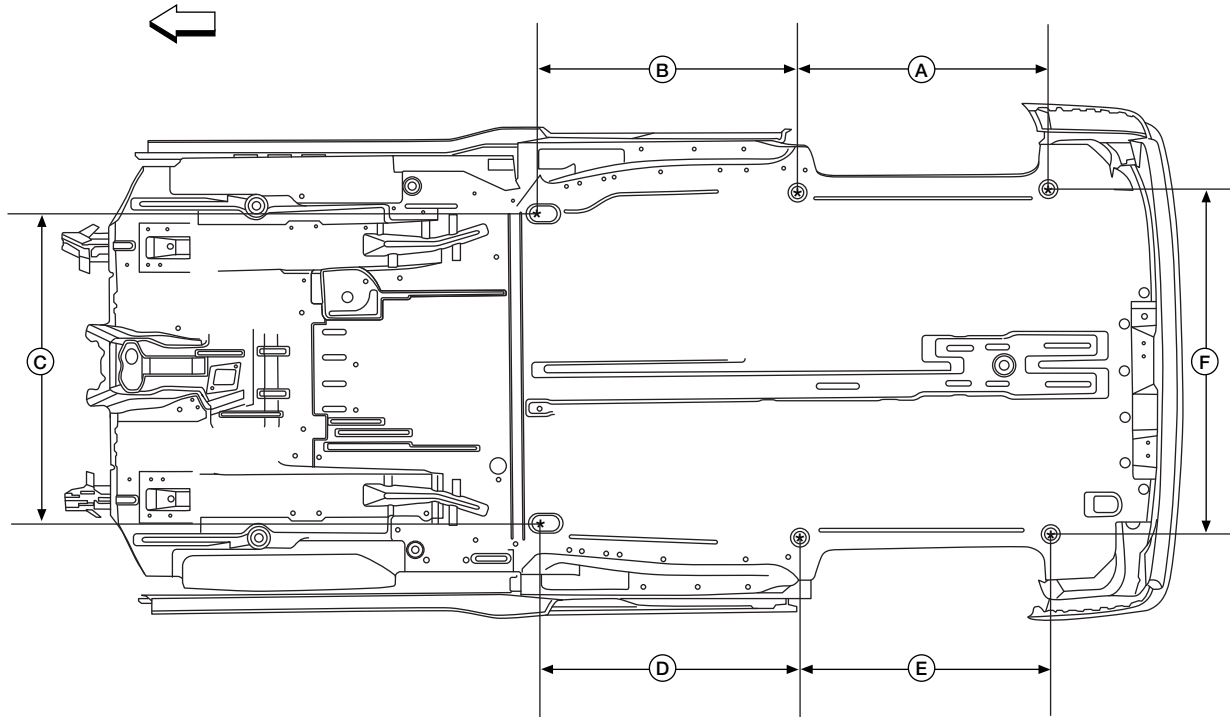
1. Mounting point loading not to exceed 10 kg (22 lbs).
2. Mounting point loading not to exceed 10 kg (22 lbs) per point. Total loading across these 2 mounting points not to exceed 20 kg (44 lbs).
3. Bulkhead mounting weld nut  
Mounting point loading not to exceed 10 kg (22 lbs). Point may be plugged with M8 bolt.

A. 795 mm (31.3 in)	B. 1,092 mm (43.0 in) From weld nut to metal floor	C. 805 mm (31.7 in)
D. 60 mm (2.4 in)	E. 1,035 mm (40.7 in)	F. 1,091 mm (42.95 in)
G. 925 mm (36.42 in)		



## Floor

The shelves bolt to the same location on the floor as the D-rings (if equipped). Loading should be distributed evenly utilizing as many mounting points as possible.



AAZIA0224ZZ

←: Front of vehicle.

\* Bolt locations for shelving installation; All bolts are M8 x 1.25

Mounting point loading not to exceed 10 kg (22 lbs) per point.

A. 817 mm (32.2 in)

B. 845 mm (33.3 in)

C. 1,005 mm (39.6 in)

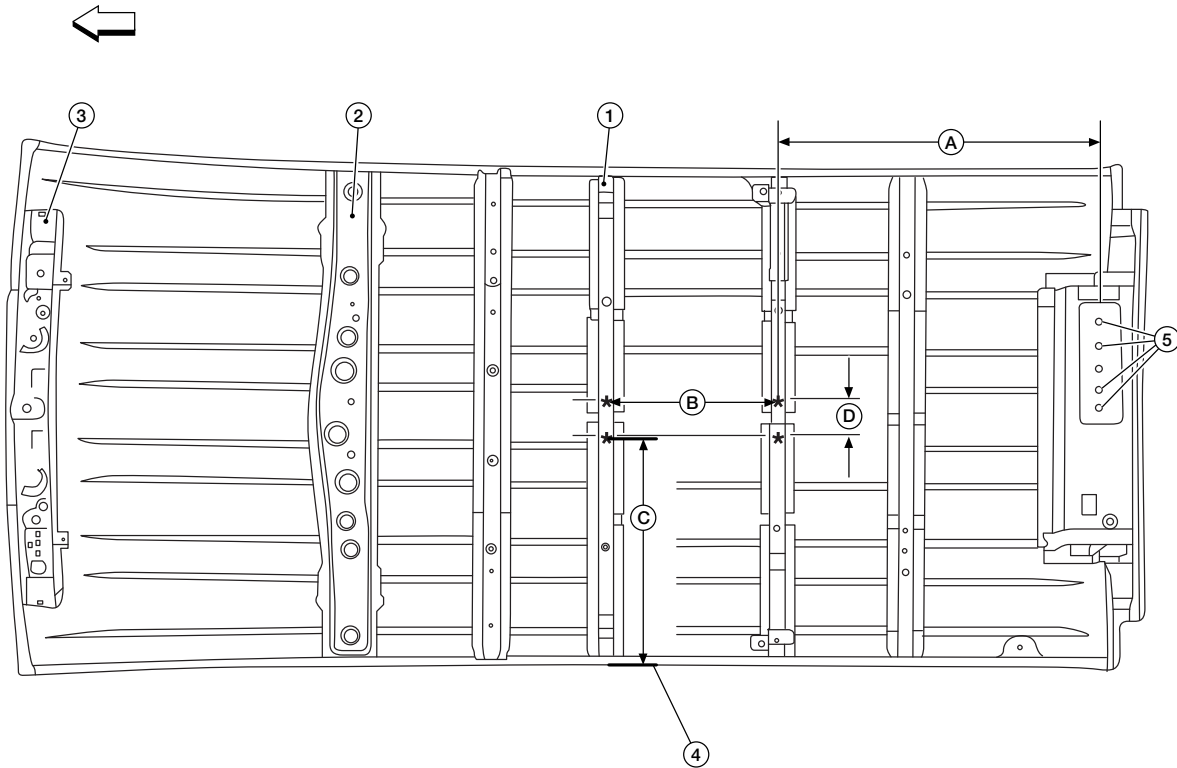
D. 840 mm (33.1 in)

E. 817 mm (32.2 in)

F. 1,138 mm (44.8 in)

## Interior Roof Bow Mounting Points — 2013-2014 Model Years

Loading should be distributed evenly, utilizing as many mounting points as possible.



AAZIA0225ZZ

↩: Front of vehicle.

\* Weld nut locations; All bolts are M6 x 1.0

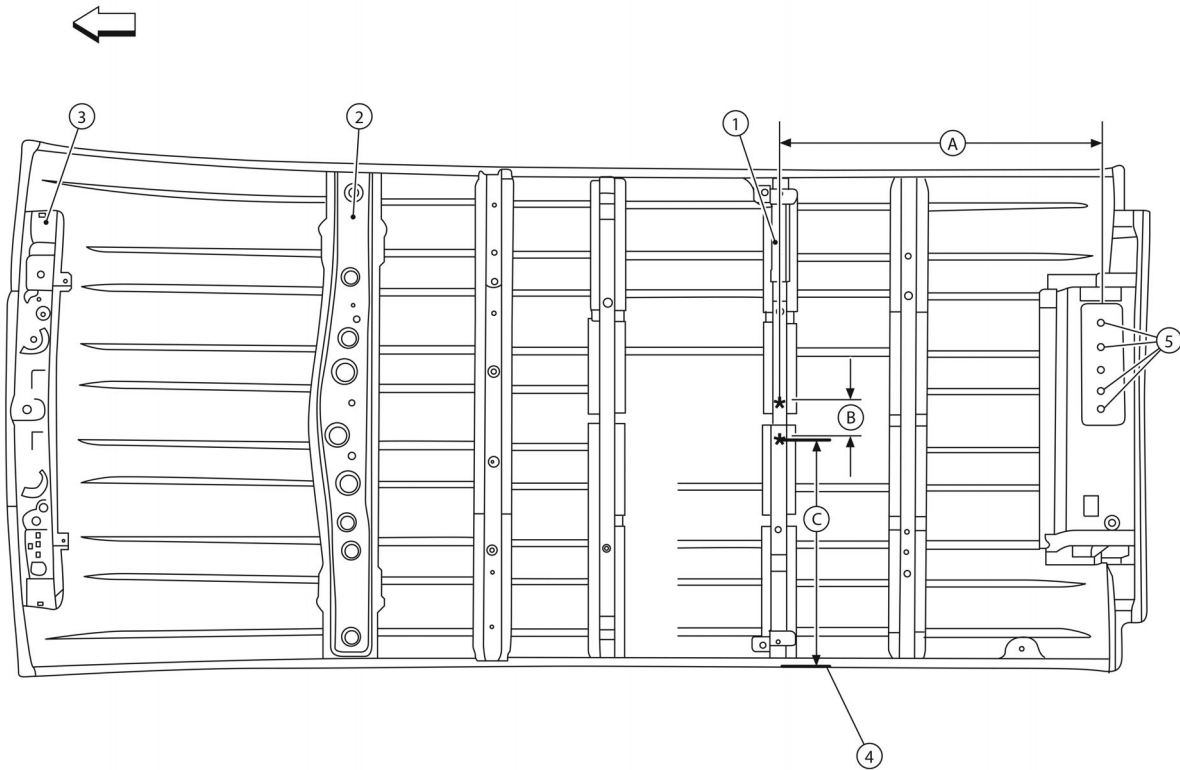
Mounting point loading not to exceed 5 kg (11 lbs) per point. Total loading across all 4 weld nuts not to exceed 20 kg (44 lbs).

Do not exceed a depth of 38 mm (1.5 in) for all 4 weld nuts.

- |  |                                |                      |
|--|--------------------------------|----------------------|
| 1. Roof bow                            | 2. Bulkhead roof bow           | 3. Windshield header |
| 4. Slide door opening lower pinch weld | 5. Rear door striker weld nuts |                      |
| A. 790 mm (31.1 in)                    | B. 420 mm (16.5 in)            | C. 617 mm (24.3 in)  |
| D. 98 mm (3.9 in)                      |                                |                      |

## Interior Roof Bow Mounting Points — 2015-2020 Model Years

Loading should be distributed evenly, utilizing as many mounting points as possible.



TGAAZIA0083ZZ

↖: Front of vehicle.

\* Weld nut locations; All bolts are M6 x 1.0

Mounting point loading not to exceed 5 kg (11 lbs) per point. Total loading across both weld nuts not to exceed 10 kg (22 lbs).

Do not exceed a depth of 38 mm (1.5 in) for both weld nuts.

- |  |                                |                      |
|--|--------------------------------|----------------------|
| 1. Roof bow                            | 2. Bulkhead roof bow           | 3. Windshield header |
| 4. Slide door opening lower pinch weld | 5. Rear door striker weld nuts |                      |
| A. 790 mm (31.1 in)                    | B. 98 mm (3.9 in)              | C. 617 mm (24.3 in)  |

---

## ROOF RACKS

**WARNING:**

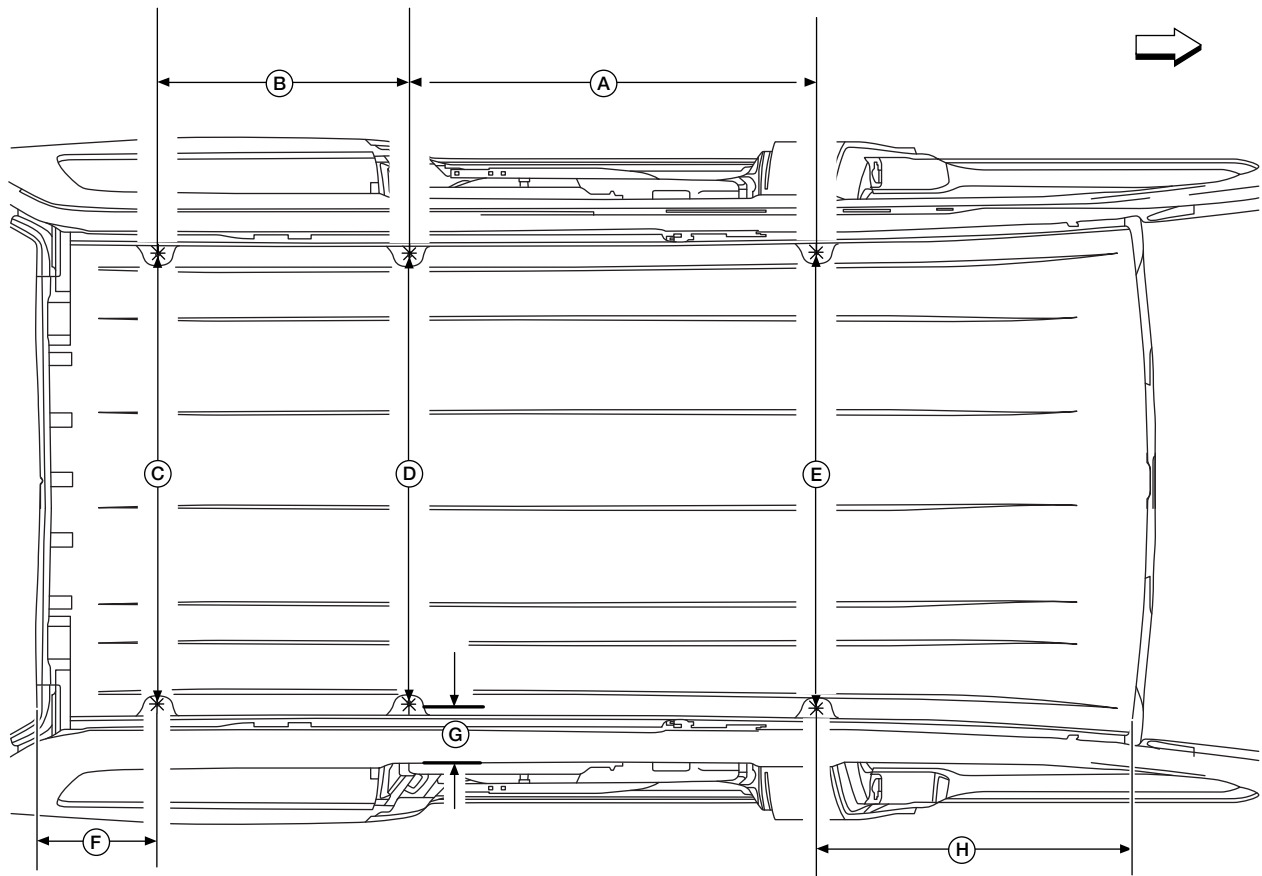
- Drive extra carefully when the vehicle is loaded at or near the cargo carrying capacity, especially if the significant portion of that load is carried on the roof rack.
- Heavy loading of the roof rack has the potential to affect the vehicle stability and handling during sudden or abnormal handling maneuvers.
- Roof rack load should be evenly distributed.
- Do not exceed maximum roof rack load weight capacity.
- Properly secure all cargo with ropes or straps to help prevent it from sliding or shifting. In a sudden stop or collision, unsecured cargo could cause personal injury.
- To avoid personal injury, use care when placing or removing items from the roof rack. If you cannot comfortably lift the items onto the roof rack from the ground, use a ladder or stool.

**CAUTION:**

**Always distribute the cargo evenly on the roof rack. Do not load more than 100 kg (220.5 lbs) for "S" model and 101 kg (220.5 lbs) for "SV" model utilizing all 3 pairs of roof rack mounting points. The maximum load per pair of roof rack mounting points is 33.3 kg (73.4 lbs) for "S" model and 33.6 kg (74.1 lbs) for "SV" model.**

The satellite radio antenna (if equipped) is located on the roof. Do not cover the antenna; it may affect the reception of the device.

The factory installed weld nuts are the only Nissan approved attachment points for the installation of a roof rack. Use bolts for attaching the roof racks.



AAZIA0216ZZ

↔: Front of vehicle.

## NOTE:

- Weld nut locations, all bolts are M8 x 1.25.
- For maximum load strength, ensure the bolt thread depth is at least 12 mm (0.5 in) depth.
- Do not exceed a depth of 24 mm (0.9 in) for the two front weld nuts.

A. 1,004 mm (39.5 in)

B. 630 mm (24.8 in)

C. 1,117 mm (44.0 in)

D. 1,113 mm (43.8 in)

E. 1,128 mm (44.4 in)

F. 214 mm (8.4 in)

G. 60.3 mm (2.4 in)

H. 800 mm (31.5 in)



## CAUTION:

### To help prevent water leaks:

- Do not reuse plastic plugs or seals.
- Use High Performance Thread Sealant 999MP-AM002P (available from a NISSAN dealer), or equivalent (Permatex 56521 or Loctite 565) on bolts before installing.

## SPECIFICATIONS

## RECOMMENDED FLUIDS AND LUBRICANTS

## NOTE:

Refer to Service Manual for detailed service procedures.

Description			Capacity (Approximate)			Recommended Fluids/Lubricants
			Metric measure	USA measure	Imperial measure	
Fuel			55 liters	14½ gallons	12⅞ gallons	Unleaded gasoline with an octane rating of at least 87 AKI (RON 91) * <b>1</b>
Engine oil Drain and refill	With oil filter change	2013-2016	4.4 liters	4⅝ quarts	3⅞ quarts	Genuine "NISSAN motor oil 5W-30 SN" (or equivalent) is recommended. * <b>2</b>
		2017-2020	4.6 liters	4⅞ quarts	4 quarts	
	Without oil filter change	2013-2016	4.2 liters	4½ quarts	3¾ quarts	
		2017-2020	4.3 liters	4½ quarts	3¾ quarts	
Cooling system	(With reservoir at MAX level)		7.6 liters	8 quarts	6¾ quarts	Pre-diluted Genuine NISSAN Long Life Antifreeze/Coolant (blue) or equivalent * <b>3</b>
Coolant reservoir tank			0.7 liters	¾ quarts	⅝ quarts	
Continuously variable transmission (CVT) fluid	2013-2014 Model Years		8.1 liters	8⅝ quarts	7¼ quarts	Genuine NISSAN CVT Fluid NS-3 * <b>4</b>
	2015-2020 Model Years		7.7 liters	8⅞ quarts	6¾ quarts	
Brake fluid			—	—	—	Genuine NISSAN Super Heavy Duty Brake Fluid * <b>5</b> or equivalent, DOT 3 (US FMVSS No. 116)
Multi-purpose grease			—	—	—	NLGI No.2 (lithium soap base)
Windshield washer fluid			4.5 liters	4¾ quarts	4 quarts	Genuine NISSAN Windshield Washer Concentrate Cleaner & Antifreeze or equivalent
Air conditioning system refrigerant			0.40 kilograms	0.88 pounds	0.88 pounds	HFC-134a (R-134a) * <b>6</b>
Air conditioning system oil			150 milliliters	5.03 ounces	5.3 ounces	A/C System Oil Type S (KLH00-PAGS0) * <b>6</b>

\***1**: For further details, refer to [Precaution for Fuel \(pg. 243\)](#).

**\*2:** If the above motor oil (or engine oil) is not available, a synthetic SAE 5W-30 GF-5 SN motor oil (or engine oil) may be used. Damage caused by the use of motor oil (or engine oil) other than as recommended is not covered under NISSAN's New Vehicle Limited Warranty. For further details, refer to [Engine Oil Recommendation \(pg. 243\)](#).

**\*3:** For further details, refer to [Engine Coolant Recommendation \(pg. 244\)](#).

**\*4: NISSAN recommends using Genuine NISSAN CVT Fluid NS-3 (or equivalent) ONLY in NISSAN CVTs. Do not mix with other fluids. Using fluids that are not equivalent to Genuine NISSAN CVT Fluid NS-3 may damage the CVT. Damage caused by the use of fluids other than as recommended is not covered under NISSAN's New Vehicle Limited Warranty.**

**\*5:** Available in mainland U.S.A. through a NISSAN dealer.

**\*6:** For further details, see "Air conditioner specification label" on the underside of the hood.

### Precaution for Fuel (Unleaded Regular Gasoline Recommended)

Use unleaded regular gasoline with an octane rating of at least 87 AKI (Anti-Knock Index) number (Research octane number 91).

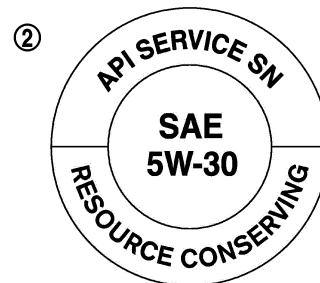


### CAUTION:

**Do not use leaded gasoline. Using leaded gasoline will damage the three-way catalyst. Do not use E-85 fuel (85% fuel ethanol, 15% unleaded gasoline) unless the vehicle is specifically designed for E-85 fuel (i.e., Flexible Fuel Vehicle — FFV Models). Using a fuel other than that specified could adversely affect the emission control devices and systems, and could also affect the warranty coverage validity.**

### Engine Oil Recommendation

Nissan recommends the use of a resource conserving oil in order to improve fuel economy. Select only engine oils that meet the American Petroleum Institute (API) certification and International Lubricant Standardization and Approval Committee (ILSAC) certification and SAE viscosity standard. These oils have the API certification mark on the front of the container. Oils which do not have the specified quality label should not be used as they could cause engine damage.



JSPIA0014ZZ

1. API certification mark

2. API service symbol

**Engine Coolant Recommendation**

The engine cooling system is filled at the factory with a pre-diluted mixture of 50% Genuine NISSAN Long Life Antifreeze/Coolant (blue) and 50% water to provide year round antifreeze and coolant protection. The antifreeze solution contains rust and corrosion inhibitors. Additional cooling system additives are not necessary.

**WARNING:**

- **Never remove the radiator or coolant reservoir cap when the engine is hot. Wait until the engine and radiator cool down. Serious burns could be caused by high pressure fluid escaping from the radiator.**
- **The radiator is equipped with a pressure type radiator cap. To prevent engine damage, use only a Genuine NISSAN radiator cap.**

**CAUTION:**

- **When adding or replacing coolant, be sure to use only Genuine NISSAN Long Life Antifreeze/Coolant (blue) or equivalent. Genuine NISSAN Long Life Antifreeze/Coolant (blue) is pre-diluted to provide antifreeze protection to -34° F (-37° C). If additional freeze protection is needed due to weather where the vehicle is operated, add Genuine NISSAN long life Antifreeze/Coolant (blue) concentrate following the directions on the container. If an equivalent coolant other than Genuine NISSAN Long Life Antifreeze/Coolant (blue) is used, follow the coolant manufacturer's instructions to maintain minimum antifreeze protection to -34° F (-37° C). The use of other types of coolant solutions other than Genuine NISSAN Long Life Antifreeze/Coolant (blue) or equivalent may damage the engine cooling system.**
- **Mixing any other type of coolant other than Genuine NISSAN Long Life Antifreeze/Coolant (blue), including Genuine NISSAN Long Life Antifreeze/Coolant (green), or the use of non-distilled water will reduce the life expectancy of the factory filled coolant.**



---

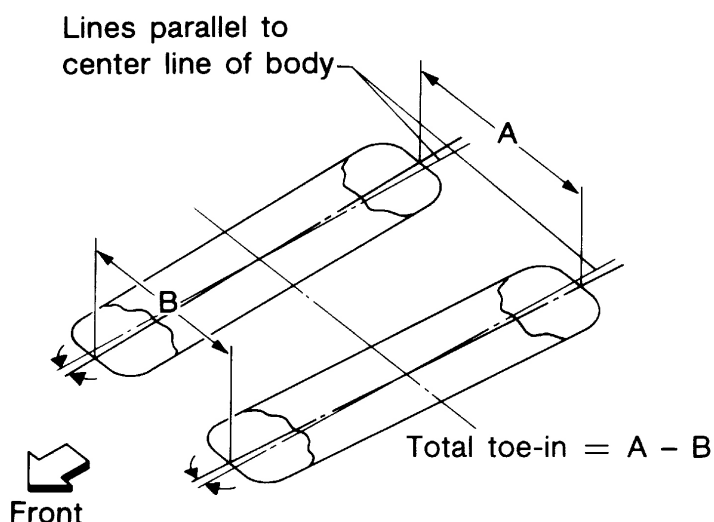
## SUSPENSION

### General Specification (Front)

Suspension type	Front: independent strut Rear: multi-leaf with solid axle
Shock absorber type	Front: twin tube strut Rear: twin tube
Stabilizer	Front solid stabilizer bar (standard equipment)

### Front Wheel Alignment (Unladen\*1)

Camber Degree minute (decimal degree)	LH and RH	Minimum	-1° 10' (-1.16°)
		Nominal	-0° 20' (-0.33°)
		Maximum	0° 30' (0.50°)
		(LH) and (RH) difference*2	- 0° 49' (-.825°) - 0° 49' (0.825°)
Caster Degree minute (decimal degree)	LH and RH	Minimum	3° 16' (3.27°)
		Nominal	4° 10' (4.17°)
		Maximum	5° 04' (5.07°)
		(LH) and (RH) difference*2	- 0° 49' (-.825°) - 0° 49' (0.825°)
Kingpin inclination Degree minute (decimal degree)	LH and RH	Minimum	11° 10' (11.17°)
		Nominal	11° 55' (11.92°)
		Maximum	12° 40' (12.67°)

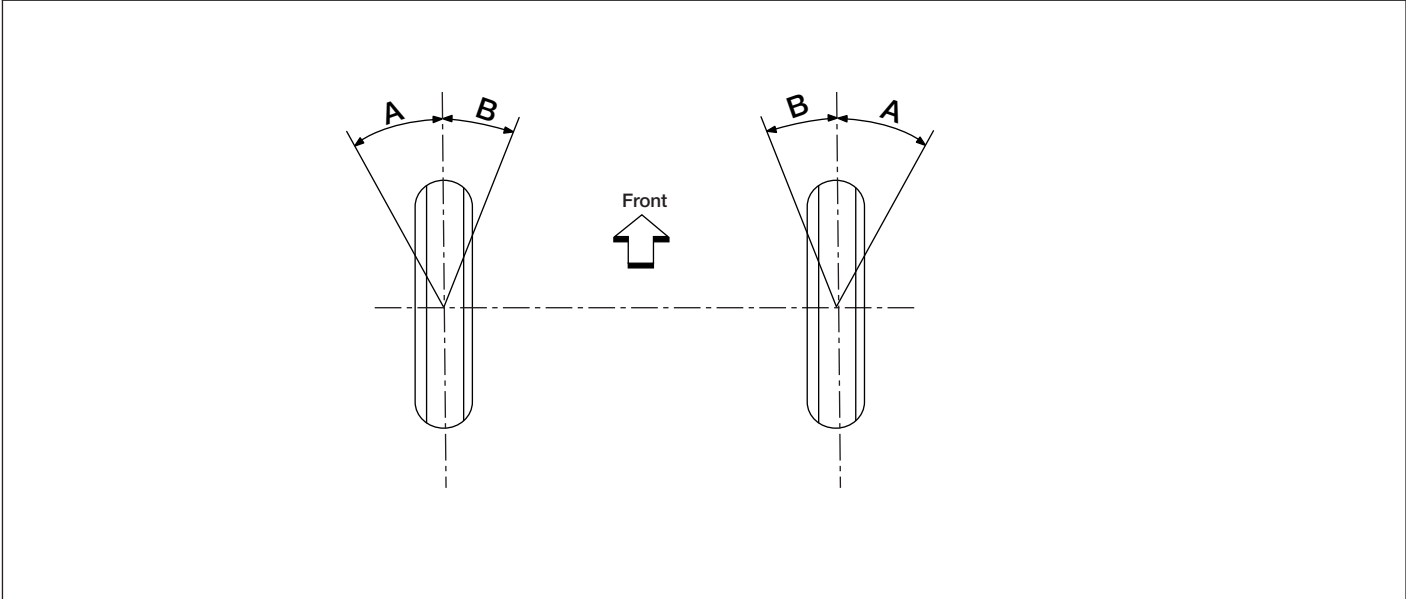


Total toe-in	Total toe-in distance (A - B)	Minimum	Out 1.5 mm (Out 0.059 in)
		Nominal	In 1.0 mm (In 0.039 in)
		Maximum	In 3.5 mm (In 0.138 in)
	Total toe angle (LH and RH) Degree minute (decimal degree)	Minimum	Out 0° 09' (0.15°)
		Nominal	In 0° 06' (0.10°)
		Maximum	In 0° 21' (0.35°)

\*1: Fuel, radiator coolant, and engine oil are full. Spare tire, jack, hand tools, and mats are in designated positions.

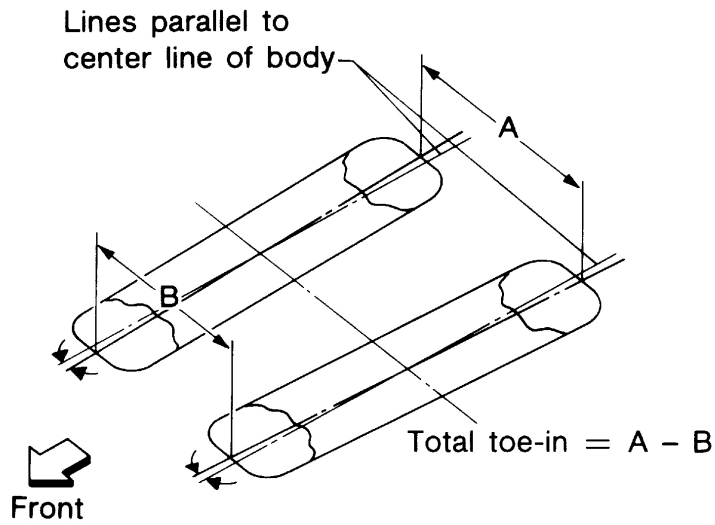
\*2: The difference when assuming the (LH) side is the standard.

Wheel Turning Angle



Inner wheel angle (A) Degree minute (decimal degree)	Minimum	36° 55' (36.92°)
	Nominal	39° 55' (39.92°)
	Maximum	40° 55' (40.92°)
Outer wheel angle (B) Degree minute (decimal degree)	Nominal	33° 35' (33.58°)

### Rear Wheel Alignment (Unladen\*)



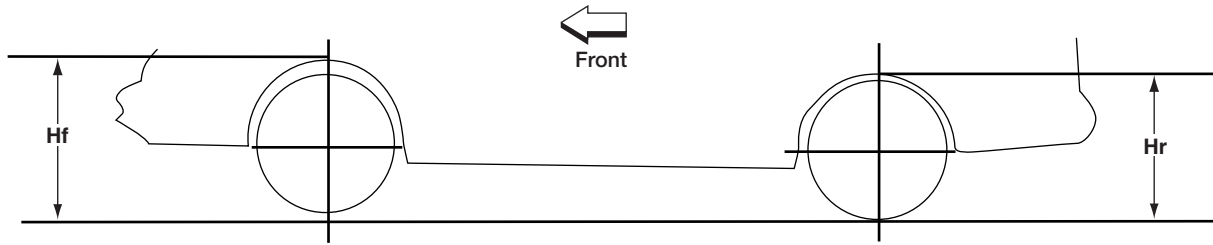
Camber Degree minute (decimal degree)		Minimum	-2° 00' (-2.00°)
		Nominal	-1° 30' (-1.5°)
		Maximum	-1° 00' (-1.00°)
Total toe-in	Distance (A - B)	Minimum	Out 2.0 mm (0.079 in)
		Nominal	In 3.0 mm (0.118 in)
		Maximum	In 8.0 mm (0.315 in)
	Angle (LH and RH) Degree minute (decimal degree)	Minimum	Out 0° 14' (0.23°)
		Nominal	In 0° 16' (0.27°)
		Maximum	In 0° 46' (0.77°)

\*: Fuel, radiator coolant, and engine oil are full. Spare tire, jack, hand tools, and mats are in designated positions.

### General Specification (Rear)

Suspension type	Rigid axle with semi-elliptic leaf spring
Shock absorber type	Double-acting hydraulic

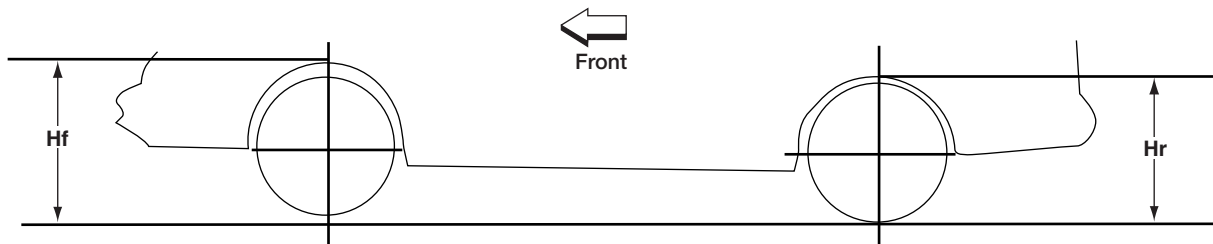
### Wheelarch Height at Offline Curb Weight (Unladen\*<sup>1</sup>)



Tire Size	185/60R15C 94/92T
Front wheelarch height ( $H_f$ )	700 mm (27.56 in)
Rear wheelarch height ( $H_r$ )	737 mm (29.02 in)

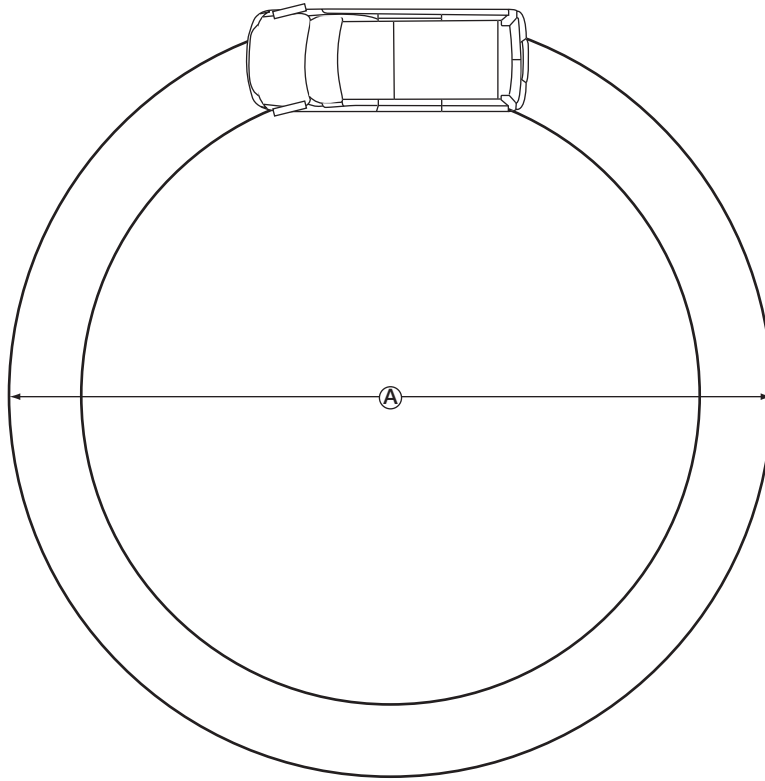
\*1: Fuel, radiator coolant and engine oil full. Spare tire, jack, hand tools and mats in designated positions.

### Wheelarch Height at Maximum Payload Weight\*<sup>1</sup>



Tire Size	185/60R15C 94/92T
Front wheelarch height ( $H_f$ )	682 mm (26.9 in)
Rear wheelarch height ( $H_r$ )	683 mm (26.9 in)

\*1: Fuel, radiator coolant and engine oil full. Spare tire, jack, hand tools and mats in designated positions.

**TURNING RADIUS****Curb-to-Curb**

A. 11.2 m (36.7 ft)

AAZIA0062ZZ

## WHEEL AND TIRE

### Wheels and Tires

Grade	Road wheel	Tire Size	Spare tire size
S	15X5.5JJ Steel	185/60R15C 94/92T *	185/60R15C 94/92T *
SV			

\* Use commercial (C) rated tires only. Do not use passenger rated tires.

Wheel Dimensions	
Diameter	15 in
Width	168 mm (6.61 in)
Offset	45 mm (1.77 in)
Bolt pattern	5 x 114.3 mm
Center bore	66 + 0.1 mm / -0.00 mm
Lug nut thread pitch	M12 X 1.25
Brake caliper clearance	2.5 mm (0.10)

## BULBS

## Exterior Lamp

Item		Wattage (W)*	Bulb No.*
Front combination lamp	Turn signal/parking lamp	28/8	3457 NAK
	Headlamp low/high	60/55	Halogen H13
Rear combination lamp	Stop/tail lamp	21/7	3047K
	Turn signal lamp	27	3157AK
	Back-up lamp	16	W16W
High-mounted stop lamp		16	W16W
License plate lamp		5	W5W

\* Always check with an authorized NISSAN dealer for the latest parts information.

## Interior Lamp/Illumination

Item	Wattage (W)*	Bulb No.*
Front room/map lamp	5	W5W
Cargo lamp	5	W5W

\* Always check with an authorized NISSAN dealer for the latest parts information.



**BATTERY**

Application →	Standard
Type*	GR21R
Capacity (20 HR) minimum V-AH	12 - 49
Cold Cranking Current A [For reference value at -18°C (0°F)]	470

\* It is recommended that you always check with an authorized NISSAN dealer for the latest parts information.

# ACRONYMS

## ACRONYM LIST

Acronym	Description
2WD	Two Wheel Drive
ABS	Anti-lock Braking System
AC	Alternating Current
A/C	Air Conditioning
AKI	Anti-Knock Index
AM/FM	Amplitude Modulated/Frequency Modulated
API	American Petroleum Institute
ARC	Accessory Reserve Capacity
A/T	Automatic Transmission
AT	Auto Transporter
ATV	All-Terrain Vehicle
BCM	Body Control Module
BT	Bus Trailer
CAN	Controller Area Network
CAN-H	Controller Area Network – High
CAN-L	Controller Area Network – Low
CD	C-Dolly
CG	Center of Gravity
CMVSS	Canadian Motor Vehicle Safety Standards
DTCs	Diagnostic Trouble Codes
ECM	Engine Control Module
EGI	Electronic Gasoline Injection
EPS	Electric Power Steering
EVAP	Evaporative Emission
FCC	Federal Communications Commission (USA)
FFV	Flexible Fuel Vehicle
FMVSS	Federal Motor Vehicle Safety Standards
GAW	Gross Axle Weight
GAWR	Gross Axle Weight Rating
GCWR	Gross Combination Weight Rating
GVW	Gross Vehicle Weight
GVWR	Gross Vehicle Weight Rating
H.S.	Harness Side
HSS	High Strength Steel
HVAC	Heating, Ventilation, & Air Conditioning
IC	Inflatable Curtain

<b>Acronym</b>	<b>Description</b>
IDs	Identifications
ILSAC	International Lubricant Standardization and Approval Committee
IPDM E/R	Intelligent Power Distribution Module Engine Room
LDD	Load Divider Dolly
MH	Motor Home
MIL	Malfunction Indicator Light
MPV	Multi-purpose Passenger Vehicle
MSDS	Material Safety Data Sheet
NHTSA	National Highway Traffic Safety Administration
NNA	Nissan North America
OEM	Original Equipment Manufacturer
ORVR	On-Board Refueling Vapor Recovery
OSHA	Occupational Safety and Health Act
RF	Radio Frequency
RFI	Radio Frequency Interference
RKE	Remote Keyless Entry
RSS	Rear Sonar System
RPM	Revolutions Per Minute
SAE	Society of Automotive Engineers
SB	School Bus
SgRP	Seating Reference Point
SRS	Supplemental Restraint System
SUB	Second Unit Body
TCD	Trailer Converter Dolly
TCM	Transmission Control Module
TPS	Throttle Position Sensor
TRA	Trailer
TRU	Truck
TT	Truck Tractor
USB	Universal Serial Bus
UVW	Unloaded Vehicle Weight
VDC	Vehicle Dynamic Control
VIN	Vehicle Identification Number

# CONVERSION CHARTS

## METRIC-ENGLISH CONVERSION CHART

Conversion Unit Type	Indicated Unit	Conversion Coefficient		
Length	km (mile)	km	→ mile	: 0.6214
	m (ft)	m	→ ft	: 3.281
	mm (in)	mm	→ in	: 0.03937
Temperature Dif- ference	°C (°F)	°C	→ °F	: 1.8°C + 32
Mass	kg (lb)	kg	→ lb	: 2.205
	g (oz)	g	→ oz	: 0.03527
Force	kN (ton, US ton, Imp ton)	ton	→ kN	: 9.807
			→ US ton	: 1.102
			→ Imp ton	: 0.9842
	N (kg, lb)	kg	→ N	: 9.807
			→ lb	: 2.205
	N (g, oz)	g	→ N	: 0.009807
→ oz			: 0.03527	
Pressure	kPa (bar, kg/cm <sup>2</sup> , psi)	kg/cm <sup>2</sup>	→ kPa	: 98.07
			→ bar	: 0.9807
			→ psi	: 14.22
	kPa (mbar, mmHg, inHg)	mmHg	→ kPa	: 0.1333
			→ mbar	: 1.333
			→ inHg	: 0.03937
	kPa (mbar, mmH <sub>2</sub> O, inH <sub>2</sub> O)	mmH <sub>2</sub> O	→ kPa	: 0.009807
			→ mbar	: 0.09807
→ inH <sub>2</sub> O			: 0.03937	
Inflation Pressure	kg/cm <sup>2</sup> , (kPa, bar, psi)	kg/cm <sup>2</sup>	→ kPa	: 98.07
			→ bar	: 0.9807
			→ psi	: 14.22
Speed	m/s (ft/s)	m/s	→ ft/s	: 3.281
	km/h (MPH)	km/h	→ MPH	: 0.6214
Cooling / Heating Capacity	kW (kcal/h, BTU/h)	kcal/h	→ kW	: 0.001163
		kW	→ BTU/h	: 3.968
			→ kcal/h	: 859.8
Unbalance	g·cm (oz·in)	g·cm	→ oz·in	: 0.01389

# METRIC-ENGLISH CONVERSION CHART

[CONVERSION CHARTS]

Conversion Unit Type	Indicated Unit	Conversion Coefficient			
Torque	N·m (kg·m, ft·lb, in·lb)	kg·m	→ N·m	: 9.807	
			→ ft·lb	: 7.233	
			→ in·lb	: 86.80	
	N·m (kg·cm, in·lb)	kg·cm	→ N·m	: 0.09807	
			→ in·lb	: 0.8680	
Volume	<Fluid> ℓ (US gal, Imp gal)	ℓ	→ US gal	: 0.2642	
			→ Imp gal	: 0.2200	
	ℓ (US qt, Imp qt)		→ US qt	: 1.057	
			→ Imp qt	: 0.8801	
	ℓ (US pt, Imp pt)		→ US pt	: 2.114	
			→ Imp pt	: 1.760	
	<Fluid> ml (US fl oz, Imp fl oz)	ml	→ US fl oz	: 0.03381	
			→ Imp fl oz	: 0.03520	
	<Displacement> cm <sup>3</sup> /(cu in)	cm <sup>3</sup>	→ cu in	: 0.06102	
Spring Constant	N/mm (kg/mm, lb/in)	kg/mm	→ N/mm	: 9.807	
			→ lb/in	: 56.00	

**INCH-MILLIMETER EQUIVALENTS CHART**

<b>Fraction inches</b>	<b>Decimal inches</b>	<b>Metric mm</b>
1/64	0.015625	0.39688
1/32	0.03125	0.79375
3/64	0.046875	1.19062
1/16	0.0625	1.58750
5/64	0.078125	1.98437
3/32	0.09375	2.38125
7/64	0.109375	2.77812
1/8	0.125	3.1750
9/64	0.140625	3.57187
5/32	0.15625	3.96875
11/64	0.171875	4.36562
3/16	0.1875	4.76250
13/64	0.203125	5.15937
7/32	0.21875	5.55625
15/64	0.234375	5.95312
1/4	0.250	6.35000
17/64	0.265625	6.74687
9/32	0.28125	7.14375
19/64	0.296875	7.54062
5/16	0.3125	7.93750
21/64	0.328125	8.33437
11/32	0.34375	8.73125
23/64	0.359375	9.12812
3/8	0.375	9.52500
25/64	0.390625	9.92187
13/32	0.40625	10.31875
27/64	0.421875	10.71562
7/16	0.4375	11.11250
29/64	0.453125	11.50937
15/32	0.46875	11.90625
31/64	0.484375	12.30312
1/2	0.500	12.70000

<b>Fraction inches</b>	<b>Decimal inches</b>	<b>Metric mm</b>
33/64	0.51625	13.09687
17/32	0.53125	13.49375
35/64	0.546875	13.89062
9/16	0.5625	14.28750
37/64	0.578125	14.68437
19/32	0.59375	15.08125
39/64	0.609375	15.47812
5/8	0.625	15.87500
41/64	0.640625	16.27187
21/32	0.65625	16.66875
43/64	0.671875	17.06562
11/16	0.6875	17.46250
45/64	0.703125	17.85937
23/32	0.71875	18.25625
47/64	0.734375	18.65312
3/4	0.750	19.05000
49/64	0.765625	19.44687
25/32	0.78125	19.84375
51/64	0.796875	20.24062
13/16	0.8125	20.63750
53/64	0.828125	21.03437
27/32	0.84375	21.43125
55/64	0.859375	21.82812
7/8	0.875	22.22500
57/64	0.890625	22.62187
29/32	0.90625	23.01875
59/64	0.921875	23.41562
15/16	0.9375	23.81250
61/64	0.953125	24.20937
31/32	0.96875	24.60625
63/64	0.984375	25.00312
1	1.00	25.40000

ACRONYMS		PAINT WORK — 2013-2014 MODEL YEARS . . . . .	226
ACRONYM LIST . . . . .	254	PAINT WORK — 2015-2017 MODEL YEARS . . . . .	227
ADD ON EQUIPMENT		PAINT WORK — 2018-2019 MODEL YEARS . . . . .	228
ANTI-CORROSION PROTECTION . . . . .	232	PAINT WORK — 2020 MODEL YEAR . . . . .	229
Bulkhead . . . . .	233	Rear Sonar System . . . . .	200
ROOF RACKS . . . . .	240	REPLACING BOLTS . . . . .	231
SHELVING AND BULKHEAD INSTALLATION . . . . .	233	SONAR SYSTEM . . . . .	200
BODY DIMENSIONS		STEERING AND SUSPENSION . . . . .	207
Back Door Opening Measurements . . . . .	130	Tightening Torque Table . . . . .	231
CARGO AREA . . . . .	107	TRANSMISSION . . . . .	209
Crossmember and Body Mount Dimensions . . . . .	133	UNIBODY AND FRAME . . . . .	210
D-Ring Tie-Downs (If Equipped) . . . . .	112	Vehicle Handling Information . . . . .	207
Doors and Mirrors Dimensions . . . . .	131	VEHICLE INTERIOR . . . . .	224
EXTERIOR . . . . .	125	WELDING . . . . .	220
Exterior Overall Dimensions . . . . .	132	WHEEL AND TIRE . . . . .	206
Front Door Opening Measurements . . . . .	125		
Interior Dimensions . . . . .	107	ELECTRICAL	
LH Slide Door Opening Measurements — With Slide Door Installed . . . . .	129	Added Lights or Accessories Controlled By Added Switches . . . . .	183
LH Slide Door Opening Measurements — Without Slide Door Installed . . . . .	127	ADDING LIGHTS OR DEVICES . . . . .	183
PASSENGER COMPARTMENT . . . . .	103	Back Door RH Harness (With Window Glass) . . . . .	176
PLACARDS . . . . .	124	Back Door RH Harness (Without Window Glass) . . . . .	177
RH Slide Door Opening Measurements — With Slide Door Installed . . . . .	128	BATTERY VOLTAGE CONNECTION . . . . .	159
RH Slide Door Opening Measurements — Without Slide Door Installed . . . . .	126	BATTERY VOLTAGE CONTROL SYSTEM . . . . .	158
Seat Mounting Holes . . . . .	103	BCM TRANSIT MODE (2013-2015 MODEL YEARS) . . . . .	141
Seat Position Diagrams . . . . .	105	Body Harness — 2013-2014 Model Years . . . . .	169
SIGN AREA . . . . .	115	Body Harness — 2015-2019 Model Years . . . . .	170
UNIBODY AND FRAME . . . . .	133	Body Harness — 2020 Model Year . . . . .	171
Wheel Well Clearance . . . . .	108	BULBS . . . . .	178
CONVERSION CHARTS		CUSTOMER PRE-WIRING ACCESS . . . . .	160
INCH-MILLIMETER EQUIVALENTS CHART . . . . .	258	DATA LINK CONNECTOR LOCATION (FOR DIAGNOSTIC SCAN TOOL) . . . . .	136
METRIC-ENGLISH CONVERSION CHART . . . . .	256	Electrical Wiring — Adding Lights or Electrical Devices . . . . .	183
DESIGN REQUIREMENTS FOR MODIFICATIONS		Engine Control Harness . . . . .	168
ADHESIVE INFORMATION . . . . .	230	Engine Room Harness . . . . .	166
Changes To The HVAC System . . . . .	199	Engine Room Harness (Passenger Compartment) . . . . .	167
COOLING . . . . .	198	Front Door LH Harness . . . . .	172
DRIVELINE . . . . .	208	Front Door RH Harness . . . . .	173
Engine Cooling System . . . . .	198	FUSE AND RELAY INFORMATION . . . . .	142
EXHAUST . . . . .	202	Grounds . . . . .	151
Exhaust System . . . . .	202	GROUPS . . . . .	151
General . . . . .	206	HARNESS LAYOUT . . . . .	162
HIGH STRENGTH STEEL LOCATIONS . . . . .	214	Harness Outline — 2013-2014 Model Years . . . . .	162
HVAC . . . . .	199	Harness Outline — 2015-2019 Model Years . . . . .	163
HVAC System Component Locations . . . . .	199	Harness Outline — 2020 Model Year . . . . .	164
JACK . . . . .	211	HEADLAMP AIMING . . . . .	179
Jacking and Lifting Points . . . . .	211	Inspection . . . . .	179
Modifications in the Vehicle Interior . . . . .	224	Main Harness . . . . .	165
MSDS Information . . . . .	230	Permissible Ground Location . . . . .	152
PAINT GENERAL INFORMATION . . . . .	225	Radio Frequency Interference (RFI) . . . . .	183
		REGULATIONS FOR ADDING COMMUNICATION EQUIPMENT . . . . .	184
		REMOTE KEYLESS ENTRY SYSTEM . . . . .	185
		SELF-TEST MODE . . . . .	135

SHIPPING (EXTENDED STORAGE) MODE CONTROL SYSTEMS . . . . .	137	RESOURCE CHARTS	
SHIPPING MODE (EXTENDED) STORAGE SYSTEM CANCEL . . . . .	138	EXTERIOR MEASUREMENTS . . . . .	101
Sliding Door (LH) Harness . . . . .	174	INTERIOR MEASUREMENTS . . . . .	100
Sliding Door (RH) Harness . . . . .	175	WEIGHTS — 2013-2014 MODEL YEARS . . . . .	97
Speaker Wiring — 2013-2019 Model Years . . . . .	161	WEIGHTS — 2015-2019 MODEL YEARS . . . . .	98
Telematics Connector Terminal Layout . . . . .	160	WEIGHTS — 2020 MODEL YEAR . . . . .	99
Vertical Aiming Adjustment Procedure . . . . .	181		
FUEL SYSTEMS		SAFETY INFORMATION	
Chassis . . . . .	188	ALTERED VEHICLES . . . . .	67
Drilling Precaution Area . . . . .	193	BRAKE COMPLIANCE GUIDELINES . . . . .	69
FILLER NECK AREAS . . . . .	188	CENTER OF GRAVITY (CG) . . . . .	70
Fuel Filler Pipe and EVAP Canister Location — 2013-2017 Model Years . . . . .	189	FMVSS AND CMVSS REGULATION LIST . . . . .	81
Fuel Filler Pipe and EVAP Canister Location — 2018-2020 Model Years . . . . .	190	FRONT AIR BAG DEPLOYMENT ZONES (2013-2016 MODEL YEARS) . . . . .	19
Fuel Pressure Release Procedure . . . . .	187	FRONT AIR BAG DEPLOYMENT ZONES (2017 MODEL YEAR) . . . . .	35
FUEL SYSTEM PRECAUTIONS . . . . .	186	FRONT AIR BAG DEPLOYMENT ZONES (2018-2020 MODEL YEARS) . . . . .	51
General . . . . .	186	OCCUPANT CLASSIFICATION SYSTEM . . . . .	18
TANK LOCATION . . . . .	191	PRECAUTIONS . . . . .	82
Tank Mounting — 2013-2017 Model Years . . . . .	191	Precautions For Electrical CAN (Controller Area Network) System . . . . .	82
Tank Mounting — 2018-2020 Model Years . . . . .	192	Precautions for Supplemental Restraint System (SRS) "Air Bag" and "Belt Pre-Tensioner" . . . . .	13
GENERAL INFORMATION		Precautions When Using Power Tools (Air or Electric) and Hammers . . . . .	13
Canada . . . . .	11	Recommended Procedure . . . . .	72
CONTACT INFORMATION . . . . .	7	Safety / Emissions . . . . .	67
DEFINITIONS OF TERMS . . . . .	9	SRS COMPONENT LOCATIONS (2013-2017 MODEL YEARS) . . . . .	14
Disclaimer . . . . .	5	SRS COMPONENT LOCATIONS (2018-2020 MODEL YEARS) . . . . .	16
DISCLAIMER . . . . .	5	Standards . . . . .	81
Important Regulatory Information . . . . .	5	SUPPLEMENTAL RESTRAINT SYSTEM (SRS) PRECAUTIONS . . . . .	13
SERVICE INFORMATION AND TOOLS . . . . .	6	Vehicle Center of Gravity Envelope — Unloaded	
USA . . . . .	9	Vehicle Weight (UVW) . . . . .	74
WARRANTY . . . . .	8	Vehicle Center of Gravity Measurement Process . . . . .	70
MODEL INFORMATION		SPECIFICATIONS	
CLASS . . . . .	85	BATTERY . . . . .	253
GVWR CAPACITY . . . . .	86	BULBS . . . . .	252
Identification Number . . . . .	83	RECOMMENDED FLUIDS AND LUBRICANTS . . . . .	242
LABEL INFORMATION . . . . .	83	SUSPENSION . . . . .	245
Model Variation . . . . .	85	TURNING RADIUS . . . . .	250
VAN OPTION MASS — 2013-2014 MODEL YEARS . . . . .	87	WHEEL AND TIRE . . . . .	251
VAN OPTION MASS — 2015-2016 MODEL YEARS . . . . .	89	TRAILER TOW . . . . .	197
VAN OPTION MASS — 2017 MODEL YEAR . . . . .	91		
VAN OPTION MASS — 2018-2019 MODEL YEARS . . . . .	93		
VAN OPTION MASS — 2020 MODEL YEAR . . . . .	95		
VEHICLE CODING INFORMATION . . . . .	84		
Vehicle Identification . . . . .	84		
Vehicle Identification Number Arrangement . . . . .	84		