

2022-2025 **FRONTIER**

BODY BUILDER'S GUIDE



NISSAN | Commercial Vehicles

FOREWORD

This manual contains body builder's information for the 2022–2025 Model Years Nissan Frontier.

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

Measurements found within this publication are for reference only. For exact measurements, contact Adam Cairo CairoA@nrd.nissan-usa.com, Nissan Commercial and Fleet Aftermarket Engineering for CAD data.

IMPORTANT SAFETY NOTICE

NOTE:

Design changes from year to year may affect capacities and specifications in the BBG. You must consult the correct model year BBG for more information.

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: August 2021

Revision: August 2024

Publication Number: BG25EA0D41U0

CONTENTS

GENERAL INFORMATION	6	EXTERIOR MEASUREMENTS — 2022 AND 2023 MODEL YEARS (EARLY/LATE)	151
DISCLAIMER	6	EXTERIOR MEASUREMENTS — (2024 MODEL YEAR)	156
SERVICE INFORMATION AND TOOLS	7	EXTERIOR MEASUREMENTS — (STARTING WITH 2025 MODEL YEAR)	161
CONTACT INFORMATION	8	BODY DIMENSIONS	166
WARRANTY	9	PASSENGER COMPARTMENT	166
DEFINITIONS OF TERMS	10	CARGO AREA	179
SAFETY INFORMATION	13	SIGN AREA — CREW CAB	182
SUPPLEMENTAL RESTRAINT SYSTEM (SRS)		SIGN AREA — KING CAB®	189
PRECAUTIONS	13	PLACARDS	196
SRS COMPONENT LOCATIONS — CREW CAB	14	EXTERIOR — CREW CAB	197
OCCUPANT CLASSIFICATION SYSTEM	16	EXTERIOR — KING CAB®	217
FRONT AIR BAG DEPLOYMENT ZONES — CREW CAB	17	FRAME/BODY	231
SRS COMPONENT LOCATIONS — KING CAB®	33	ELECTRICAL	243
OCCUPANT CLASSIFICATION SYSTEM	35	SELF-TEST MODE	243
FRONT AIR BAG DEPLOYMENT ZONES — KING CAB®	36	DATA LINK CONNECTOR LOCATION (FOR DIAGNOSTIC SCAN TOOL)	244
ALTERED VEHICLES	52	SHIPPING (EXTENDED STORAGE) MODE CONTROL SYSTEMS	245
BRAKE COMPLIANCE GUIDELINES	54	SHIPPING MODE (EXTENDED) STORAGE SYSTEM CANCEL	246
CENTER OF GRAVITY (CG) — CREW CAB	55	FUSE AND RELAY INFORMATION — 2022-2023 (EARLY)	249
CENTER OF GRAVITY (CG) — KING CAB®	68	FUSE AND RELAY INFORMATION — 2023 (LATE) THROUGH 2024 MODEL YEAR	256
FMVSS AND CMVSS REGULATION LIST	79	FUSE AND RELAY INFORMATION — STARTING WITH 2025 MODEL YEAR	265
PRECAUTIONS	80	GROUND	274
MODEL INFORMATION	81	BATTERY VOLTAGE CONTROL SYSTEM	275
2023 MODEL YEAR - HOW TO IDENTIFY EARLY/LATE PRODUCTION	81	BATTERY VOLTAGE CONNECTION	276
LABEL INFORMATION	82	UPFITTER WIRING PASS-THROUGH	278
VEHICLE CODING INFORMATION	83	HARNESS LAYOUT	281
CLASS	85	BULBS	313
GVWR/TOWING CAPACITY	91	HEADLAMP AIMING	314
TRUCK OPTION MASS — 2022 MODEL YEAR	93	FOG LAMP AIMING	319
TRUCK OPTION MASS — 2023 MODEL YEAR	97	REGULATIONS FOR ADDING COMMUNICATION EQUIPMENT	322
TRUCK OPTION MASS — 2024 MODEL YEAR	102	ADDING LIGHTS OR DEVICES	323
TRUCK OPTION MASS — 2025 MODEL YEAR	107	INVERTER SYSTEM	324
RESOURCE CHARTS	111	REMOTE KEYLESS ENTRY SYSTEM	330
WEIGHTS — 2WD VEHICLES — 2022 MODEL YEAR	111	REAR VIEW MONITOR SYSTEM	331
WEIGHTS — 2WD VEHICLES — 2023 MODEL YEAR (EARLY PRODUCTION)	114	AROUND VIEW® MONITOR SYSTEM — CREW CAB	333
WEIGHTS — 2WD VEHICLES — 2023 MODEL YEAR (LATE PRODUCTION)	117	FUEL SYSTEMS	337
WEIGHTS — 2WD VEHICLES — 2024 MODEL YEAR	120	FUEL SYSTEM PRECAUTIONS	337
WEIGHTS — 2WD VEHICLES — 2025 MODEL YEAR	123	FILLER NECK AREAS	340
WEIGHTS — 4WD VEHICLES — 2022 MODEL YEAR	126	TANK LOCATION	343
WEIGHTS — 4WD VEHICLES — 2023 MODEL YEAR (EARLY PRODUCTION)	130	TRAILER TOW	351
WEIGHTS — 4WD VEHICLES — 2023 MODEL YEAR (LATE PRODUCTION)	134	WIRING	351
WEIGHTS — 4WD VEHICLES — 2024 MODEL YEAR	138	TRAILER SWAY CONTROL	358
WEIGHTS — 4WD VEHICLES — 2025 MODEL YEAR	142	BRAKE CONTROLLER	359
INTERIOR MEASUREMENTS	147	TRAILER HITCH	361

DESIGN REQUIREMENTS FOR

MODIFICATIONS 364

COOLING	364
HVAC	365
FRONT BUMPER	366
REAR BUMPER	367
SONAR SYSTEM	368
WINDSHIELD	372
MIRRORS	373
EXHAUST – CREW CAB	374
EXHAUST – KING CAB®	378
WHEEL AND TIRE	381
STEERING AND SUSPENSION	382
DRIVELINE	383
TRANSMISSION	384
FRAME	385
JACK – CREW CAB	386
JACK – KING CAB®	390
HIGH STRENGTH STEEL LOCATIONS	394
WELDING	399
VEHICLE INTERIOR	400
PAINT GENERAL INFORMATION	401
PAINT WORK	402
ADHESIVE INFORMATION	416
REPLACING BOLTS	417

ADD ON EQUIPMENT 418

ANTI-CORROSION PROTECTION	418
REAR WINDOW GLASS	419
REAR BUMPER	421
BED WELD NUT DIMENSIONS	424
CENTER HIGH MOUNT STOP LAMP	427

SPECIFICATIONS 429

RECOMMENDED FLUIDS AND LUBRICANTS –	
USA AND CANADA	429
RECOMMENDED FLUIDS AND LUBRICANTS –	
MEXICO	433
SUSPENSION	436
TURNING DIAMETER	443
WHEEL AND TIRE	444
BULBS	445
BATTERY	446
INVERTER SPECIFICATIONS	447

ACRONYMS 448

CONVERSION CHARTS 450

METRIC-ENGLISH CONVERSION CHART	450
INCH-MILLIMETER EQUIVALENTS CHART	452

INDEX 453

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 Frontier. 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 Frontier indicates 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 all 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 use of the vehicle.

© 2024 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.

For special service tools, refer to www.techmatetools.com.

CONTACT INFORMATION**General**

Nissan Commercial and Fleet Aftermarket Engineering 1 (855) 651-6655 or by E-mail at 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.

Center of Gravity (CG) — The center of mass of a body or system.

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. The ECM 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)

Lamps, Reflective Devices, and Associated Equipment — A lamp that is mounted on a multi-purpose 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 and aftermarket equipment. Value is reduced by adding optional equipment.

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

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) — 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)

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.

Center of Gravity (CG) — The center of mass of a body or system.

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. The ECM 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)

Lamps, Reflective Devices, and Associated Equipment — A lamp that is mounted on a multi-purpose 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 and aftermarket equipment. Value is reduced by adding optional equipment.

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

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) — 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.

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.

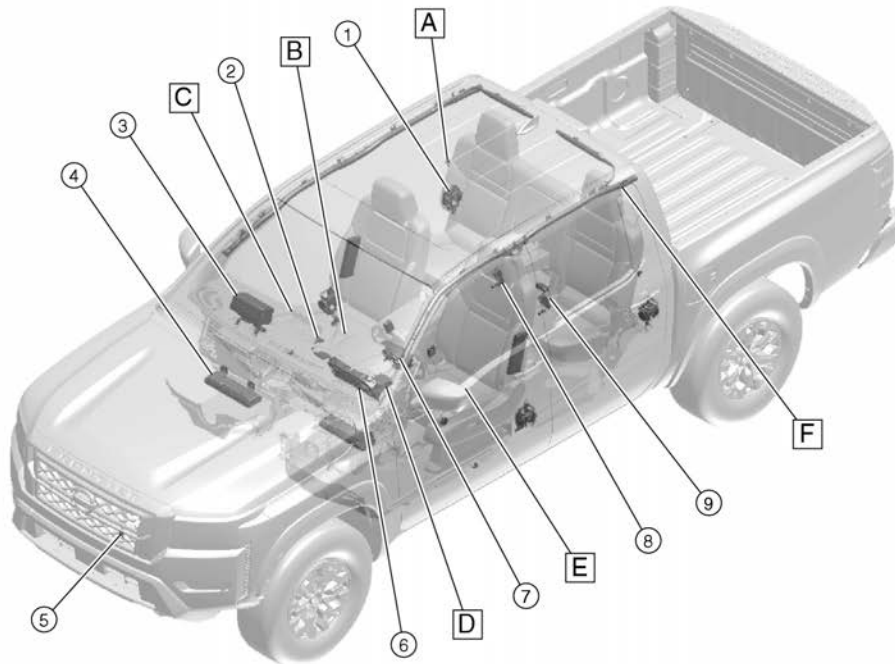
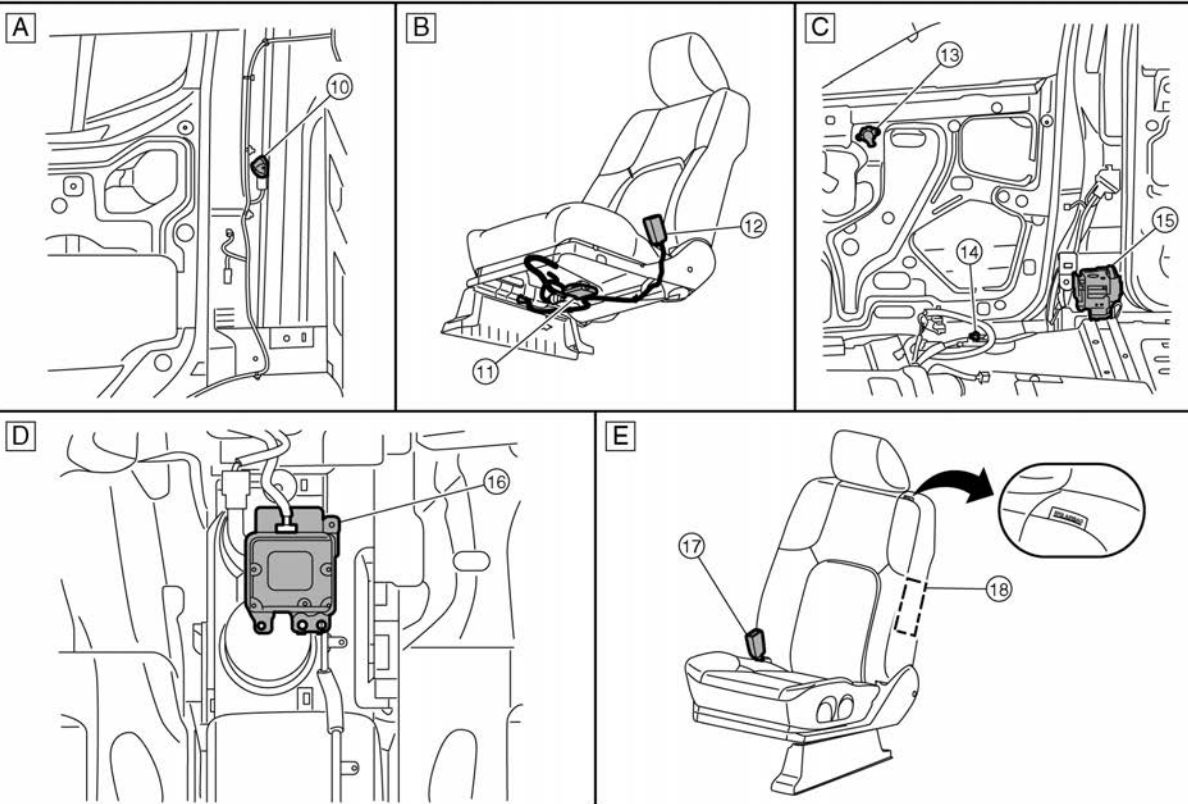
Precautions When Using Power Tools (Air or Electric) and Hammers

**WARNING:**

Always observe the following items for preventing accidental activation:

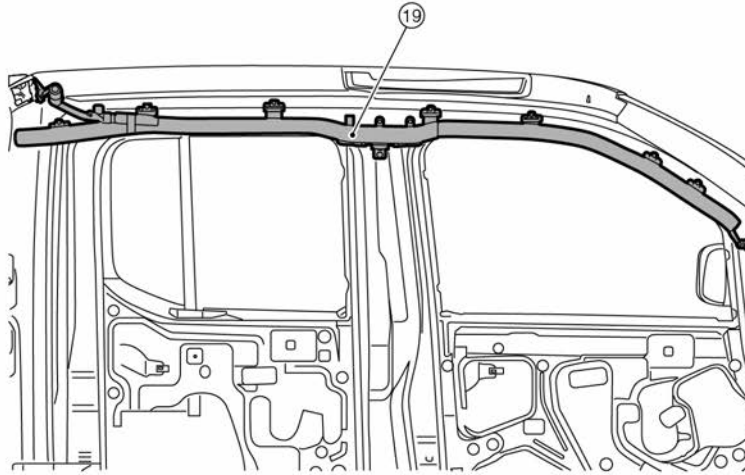
- When working near the Air bag Diagnosis Sensor Unit or other Air bag System sensors with the ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious 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 — CREW CAB



TGAZIA0204ZZ

F



TGAZIA0205ZZ

- | | |
|---|--|
| 1. Rear RH seat belt pre-tensioner (LH similar) | 2. Front passenger air bag off indicator |
| 3. Front passenger air bag module | 4. Knee air bag module RH (LH similar) |
| 5. Crash zone sensor | 6. Instrument cluster |
| 7. Driver air bag module | 8. Rear seat belt buckle switch RH |
| 9. Rear seat belt buckle switch LH & CTR | 10. Rear side air bag satellite sensor RH (LH similar) |
| 11. Occupant classification system control unit | 12. Front seat belt buckle switch RH |
| 13. Front door satellite sensor RH (LH similar) | 14. Front side air bag satellite sensor RH (LH similar) (if so equipped) |
| 15. Front RH seat belt pre-tensioner (LH similar) | 16. Air bag diagnosis sensor unit |
| 17. Front seat belt buckle switch LH | 18. Front LH side air bag module (RH similar) |
| 19. LH side curtain air bag module (RH similar) (view with headliner and A-pillar trim removed) | |

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.

FRONT AIR BAG DEPLOYMENT ZONES — CREW CAB

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.

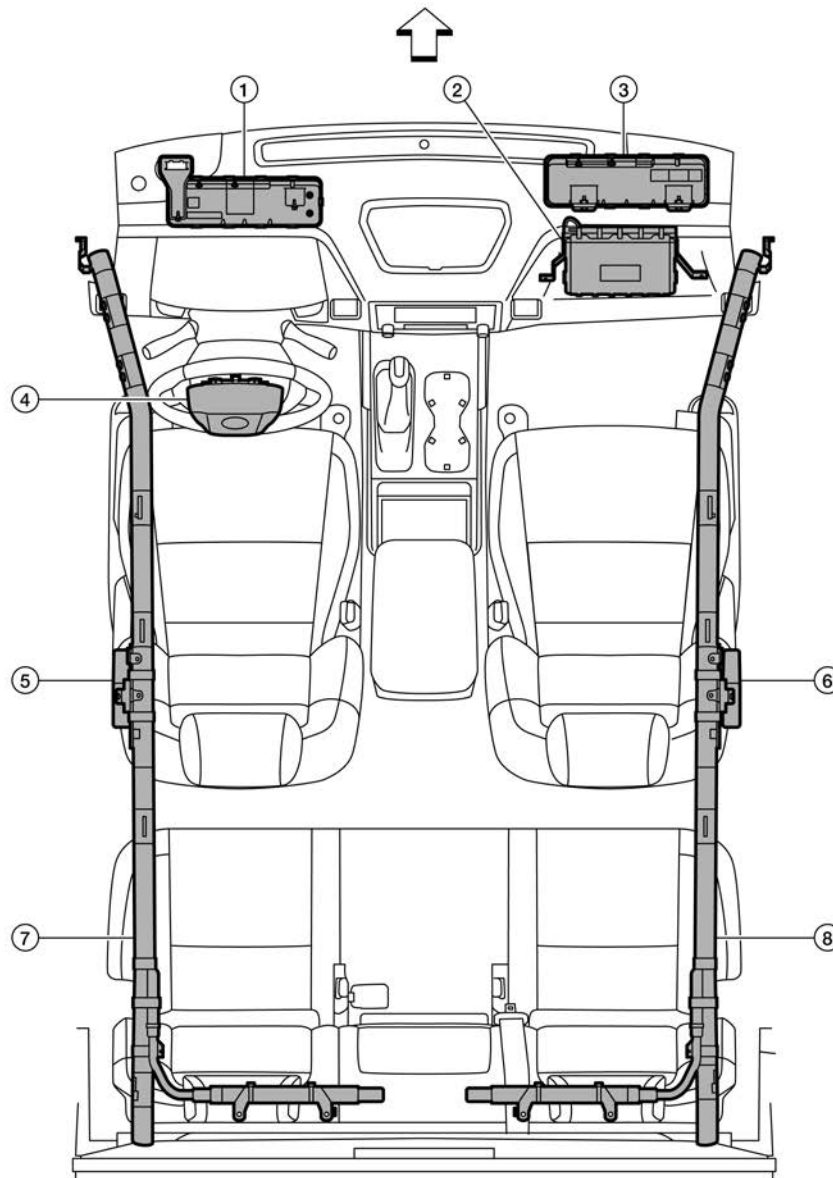
NOTE:

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 — CREW CAB

[SAFETY INFORMATION]

Front Air Bag Modules — Overhead View



TGAZIA0206ZZ

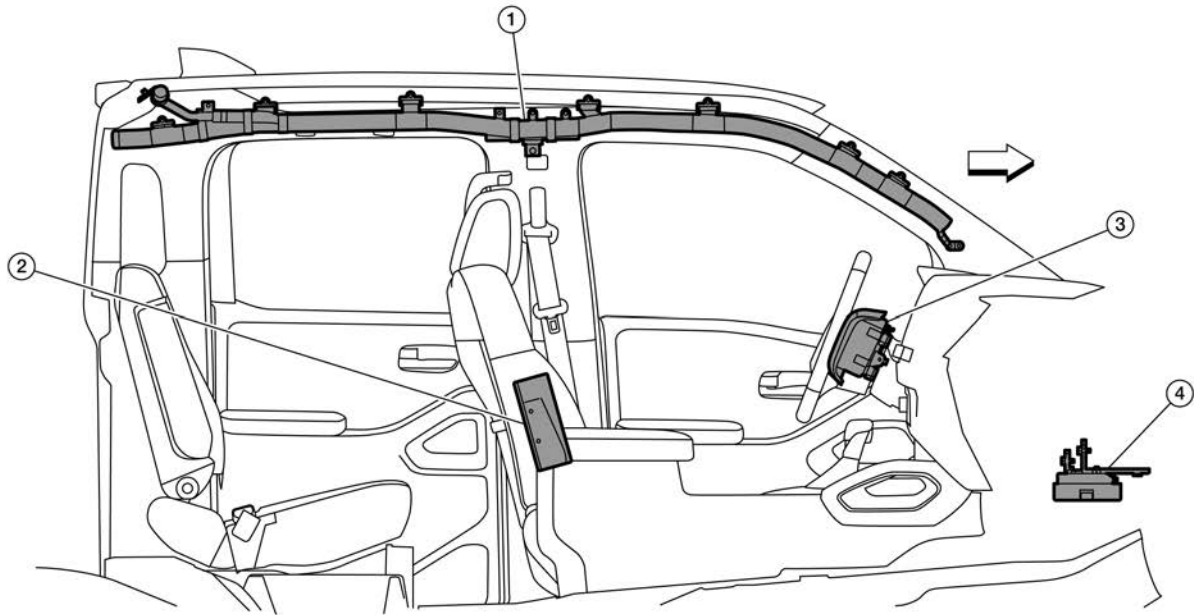
↖: Front of vehicle.

- | | | |
|--|---|-----------------------------------|
| 1. Driver knee air bag module | 2. Passenger air bag module | 3. Passenger knee air bag module |
| 4. Driver air bag module | 5. Side air bag module, driver | 6. Side air bag module, passenger |
| 7. Side curtain air bag module, driver | 8. Side curtain air bag module, passenger | |

FRONT AIR BAG DEPLOYMENT ZONES — CREW CAB

[SAFETY INFORMATION]

Front Air Bag Modules — Driver Side



TGAZIA0207ZZ

↔: Front of vehicle.

1. Side curtain air bag module

2. Side air bag module

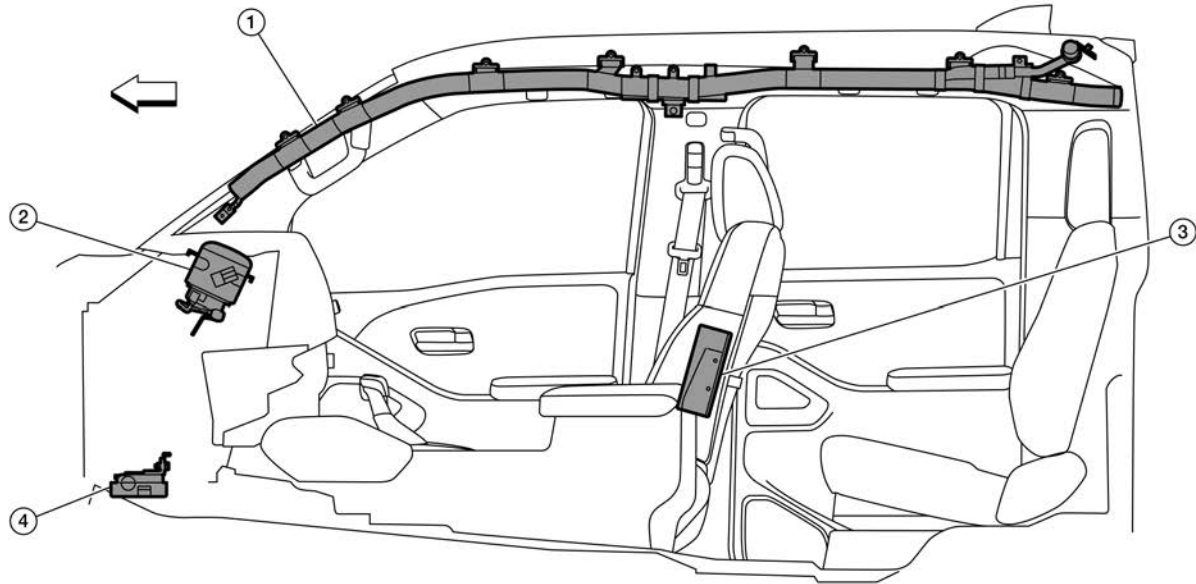
3. Driver air bag module

4. Driver knee air bag module

FRONT AIR BAG DEPLOYMENT ZONES — CREW CAB

[SAFETY INFORMATION]

Front Air Bag Modules — Passenger Side



TGAAZIA0208ZZ

↖: Front of vehicle.

1. Side curtain air bag module

2. Passenger air bag module

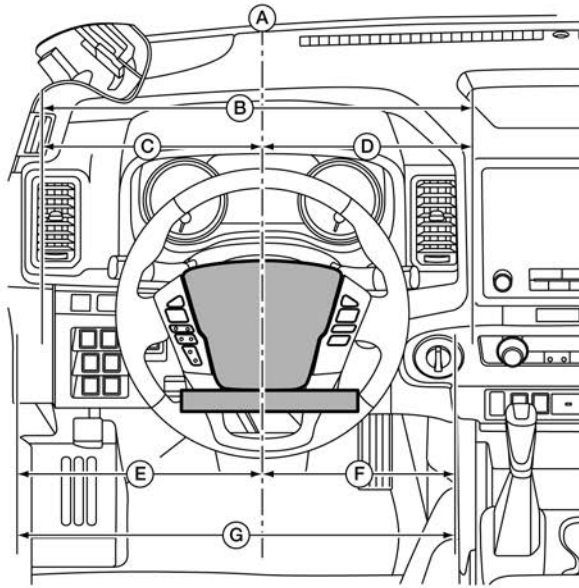
3. Side air bag module

4. Passenger knee air bag
module

FRONT AIR BAG DEPLOYMENT ZONES — CREW CAB

[SAFETY INFORMATION]

Driver Air Bag and Knee Air Bag Deployment Width



TGAZIA0210ZZ

A. Center of the driver air bag module housing

B. Maximum lateral projection of the deployed driver air bag 581.7 mm (22.9 in)

C. 292.2 mm (11.5 in)

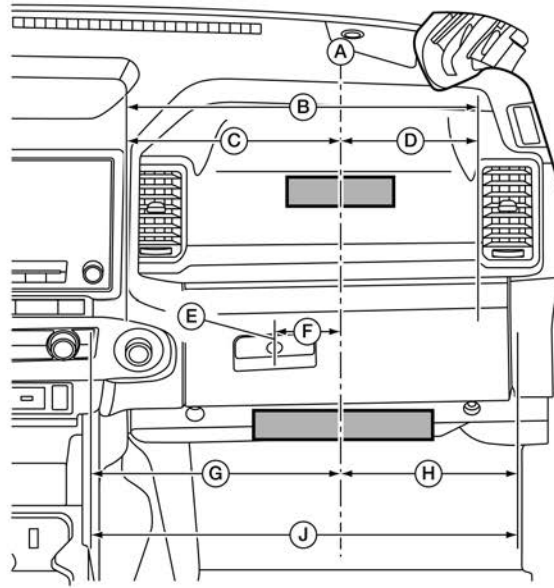
D. 289.4 mm (11.4 in)

E. 355.6 mm (14.0 in)

F. 262.2 mm (10.3 in)

G. Maximum lateral projection of the deployed driver knee air bag 617.8 mm (24.3 in)

Front Passenger Air Bag and Knee Air Bag Deployment Width



TGAZIA0211ZZ

A. Center of passenger air bag module housing	B. Maximum lateral projection of the deployed passenger air bag 476.1 mm (18.7 in)	C. 237.4 mm (9.3 in)
D. 238.7 mm (9.4 in)	E. Reference point: glove box key hole	F. 29.7 mm (1.2 in)
G. 296.6 mm (11.7 in)	H. 296.6 mm (11.7 in)	J. Maximum lateral projection of the deployed passenger knee air bag 593.2 mm (23.4 in)

FRONT AIR BAG DEPLOYMENT ZONES — CREW CAB

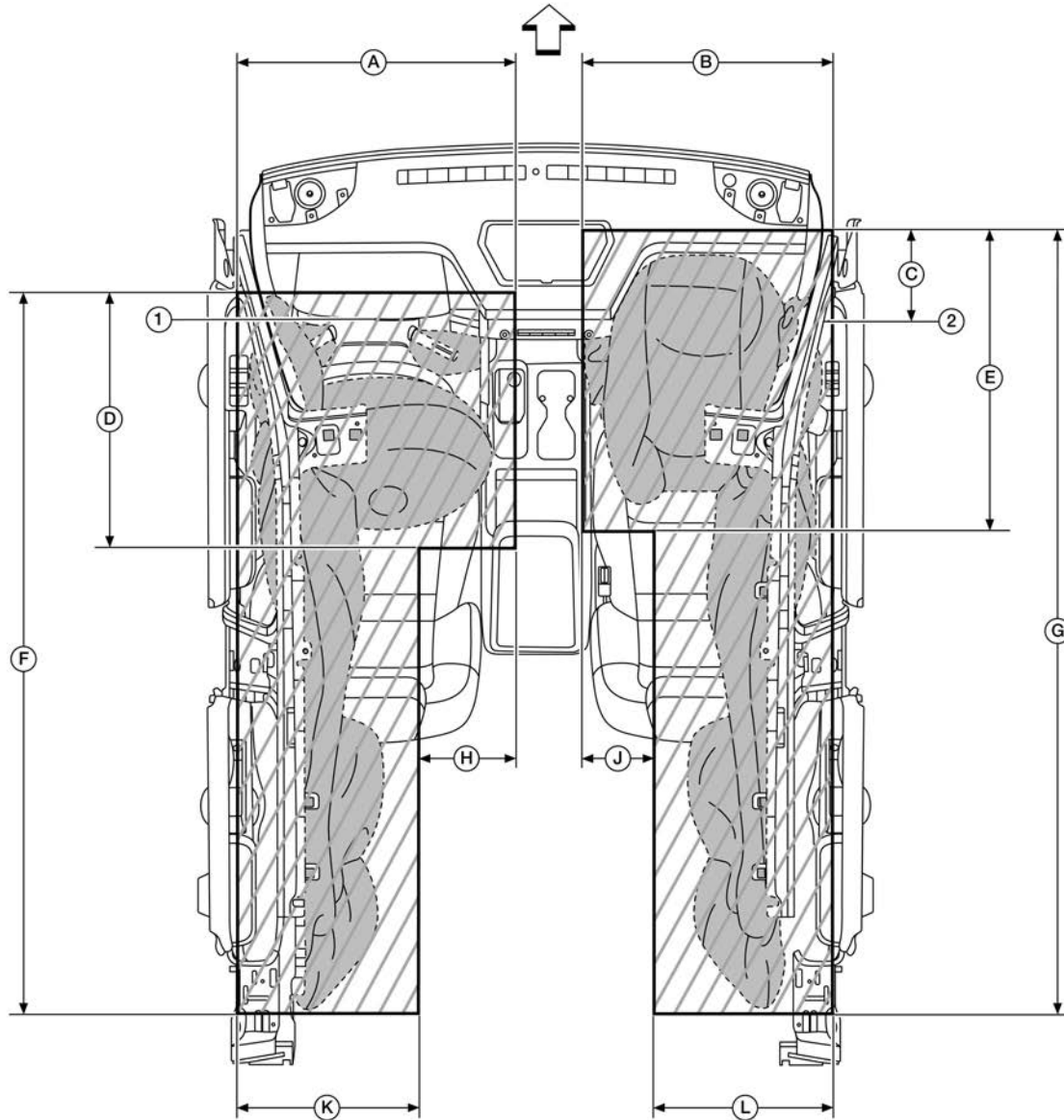
[SAFETY INFORMATION]

AIR BAG DEPLOYMENT KEEP-OUT ZONES

Front Air Bag Keep-Out Zones — Overhead View

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

 = Air Bag Inflation Zone



TGAZIA0168ZZ

: Front of vehicle.

1. Reference point: instrument panel edge (instrument cluster shroud)

2. Reference point: SRS label

B. 596.7 mm (23.5 in)

C. 215.6 mm (8.5 in)

A. 668.2 mm (26.3 in)

E. 717.6 mm (28.3 in)

F. 1,730 mm (68.1 in)

D. 606.7 mm (23.9 in)

H. 234.5 mm (9.2 in)

J. 173 mm (6.8 in)

G. 1,884.6 mm (74.2 in)

L. 423.7 mm (16.7 in)

K. 433.7 mm (17.1 in)

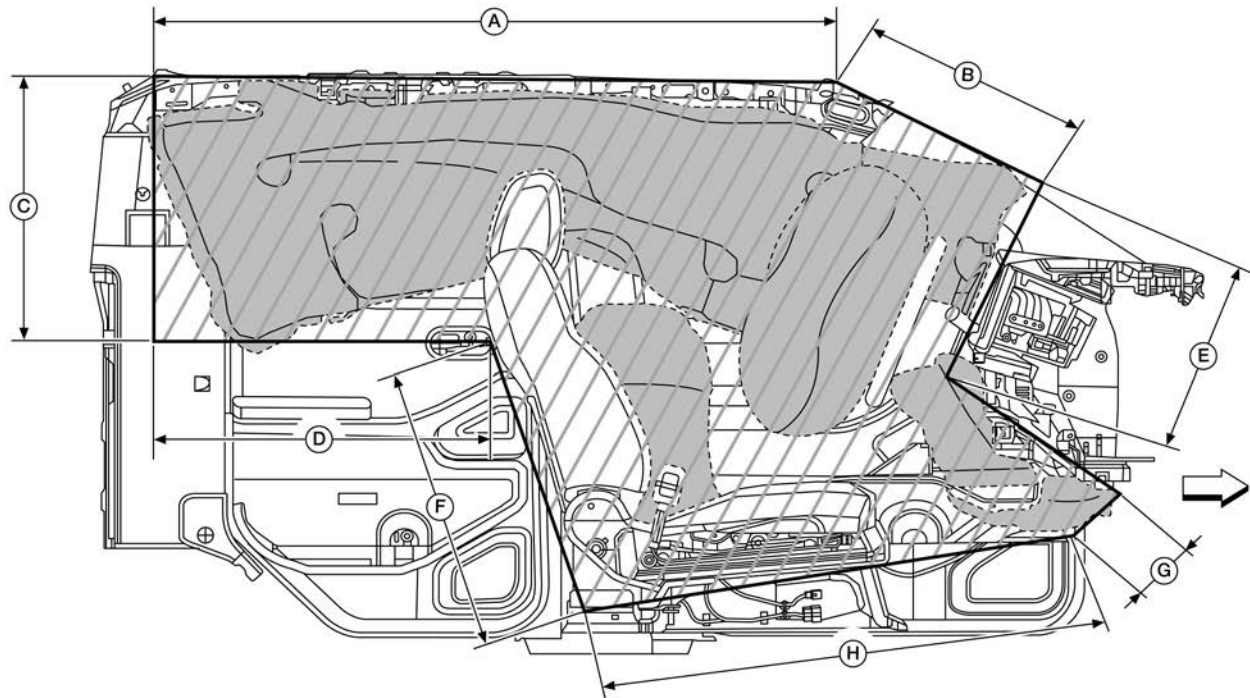
FRONT AIR BAG DEPLOYMENT ZONES — CREW CAB

[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



TGAAZIA0179ZZ

: Front of vehicle.

A. 1,367.5 mm (53.8 in)

B. 419.9 mm (16.5 in)

C. 555.4 mm (21.9 in)

D. 683.3 mm (26.9 in)

E. 467.8 mm (18.4 in)

F. 580.9 mm (22.9 in)

G. 74 mm (2.9 in)

H. 981.6 mm (38.6 in)

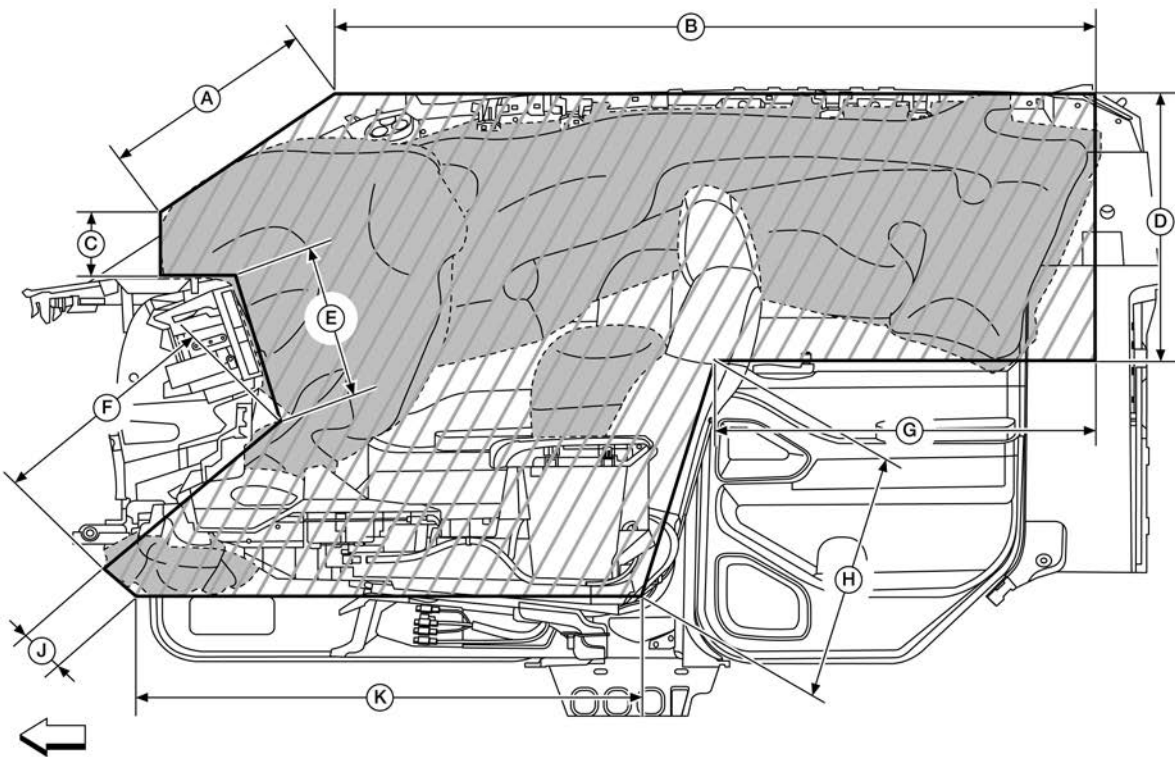
FRONT AIR BAG DEPLOYMENT ZONES — CREW CAB

[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



TGAAZIA0170ZZ

: Front of vehicle.

A. 418.3 mm (16.5 in)

D. 555 mm (21.9 in)

G. 744.1 mm (29.3 in)

K. 986.5 mm (38.8 in)

B. 1,484.5 mm (58.4 in)

E. 319.1 mm (12.6 in)

H. 514.9 mm (20.3 in)

C. 131.1 mm (5.2 in)

F. 464.6 mm (18.3 in)

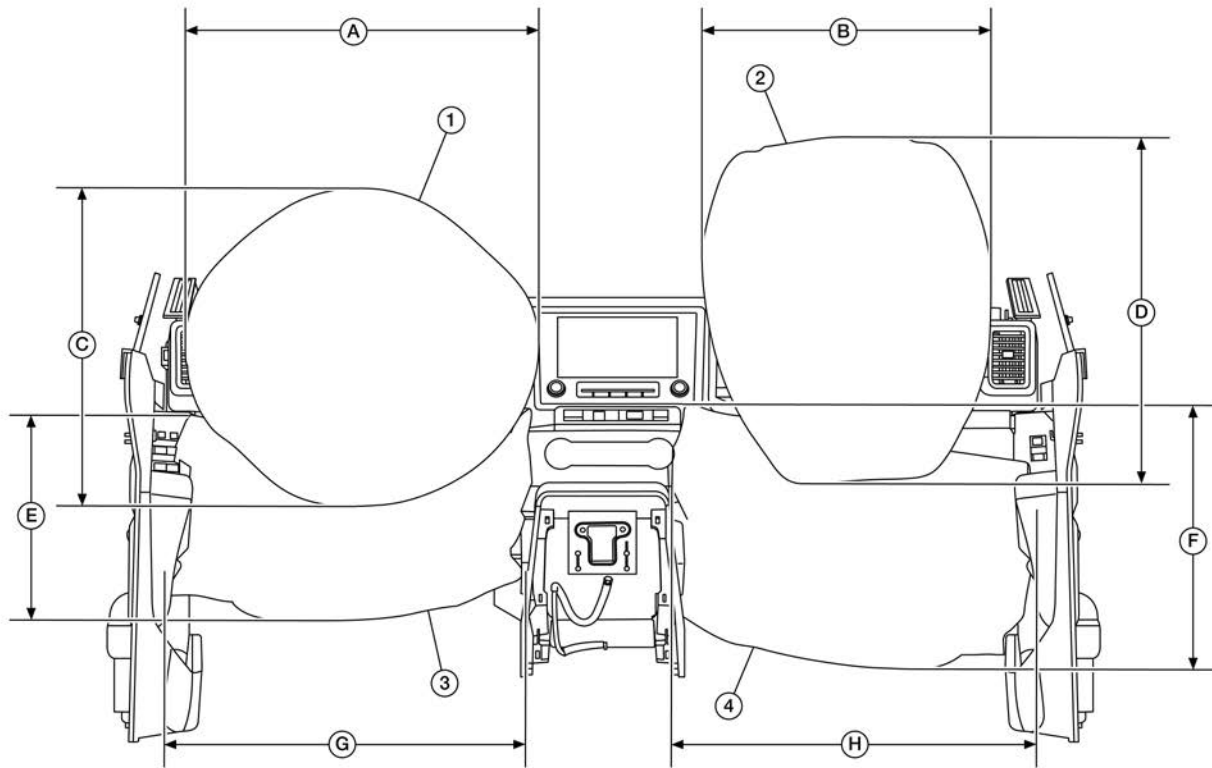
J. 81.2 mm (3.2 in)

FRONT AIR BAG DEPLOYMENT ZONES — CREW CAB

[SAFETY INFORMATION]

INFLATED AIR BAG ZONE DIMENSIONS

Driver and Passenger Air Bag Inflation Zones — Forward View



TGAAZIA0172ZZ

1. Maximum inflated driver air bag

4. Maximum inflated front passenger knee air bag

C. 593.1 mm (23.4 in)

F. 478.4 mm (18.8 in)

2. Maximum inflated front passenger air bag

A. 581.7 mm (22.9 in)

D. 630.9 mm (24.8 in)

G. 617.8 mm (24.3 in)

3. Maximum inflated front driver knee air bag

B. 476.1 mm (18.7 in)

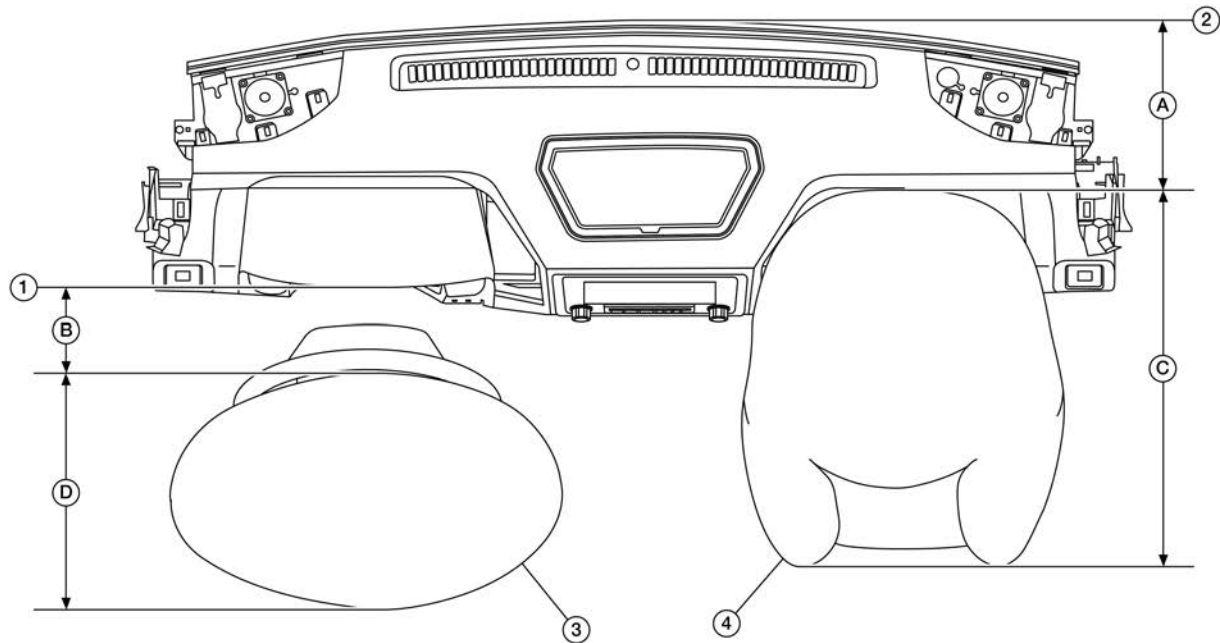
E. 372 mm (14.6 in)

H. 603.2 mm (23.8 in)

FRONT AIR BAG DEPLOYMENT ZONES — CREW CAB

[SAFETY INFORMATION]

Front Air Bag Inflation Zones — Overhead View



TGAZIA0171ZZ

1. Reference point: instrument panel edge (instrument cluster shroud)

2. Reference point: mating point of windshield and instrument panel at center line of front passenger air bag

3. Maximum inflated driver air bag

4. Maximum inflated front passenger air bag

A. 271 mm (10.7 in)

B. 137.8 mm (5.4 in)

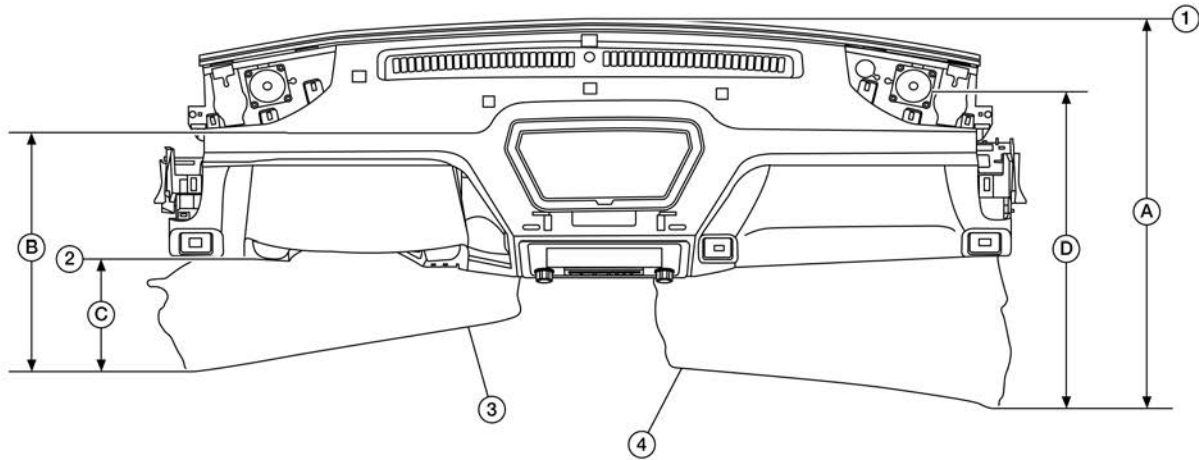
C. 601.4 mm (23.7 in)

D. 375.7 mm (14.8 in)

FRONT AIR BAG DEPLOYMENT ZONES — CREW CAB

[SAFETY INFORMATION]

Knee Air Bag Inflation Zones — Overhead View



TGAZIA0173ZZ

1. Reference point: mating point of windshield and instrument panel

2. Reference point: instrument panel edge (instrument cluster shroud)

3. Maximum inflated driver knee air bag

4. Maximum inflated passenger knee air bag

A. 712.6 mm (28.1 in)

B. 437.5 mm (17.2 in)

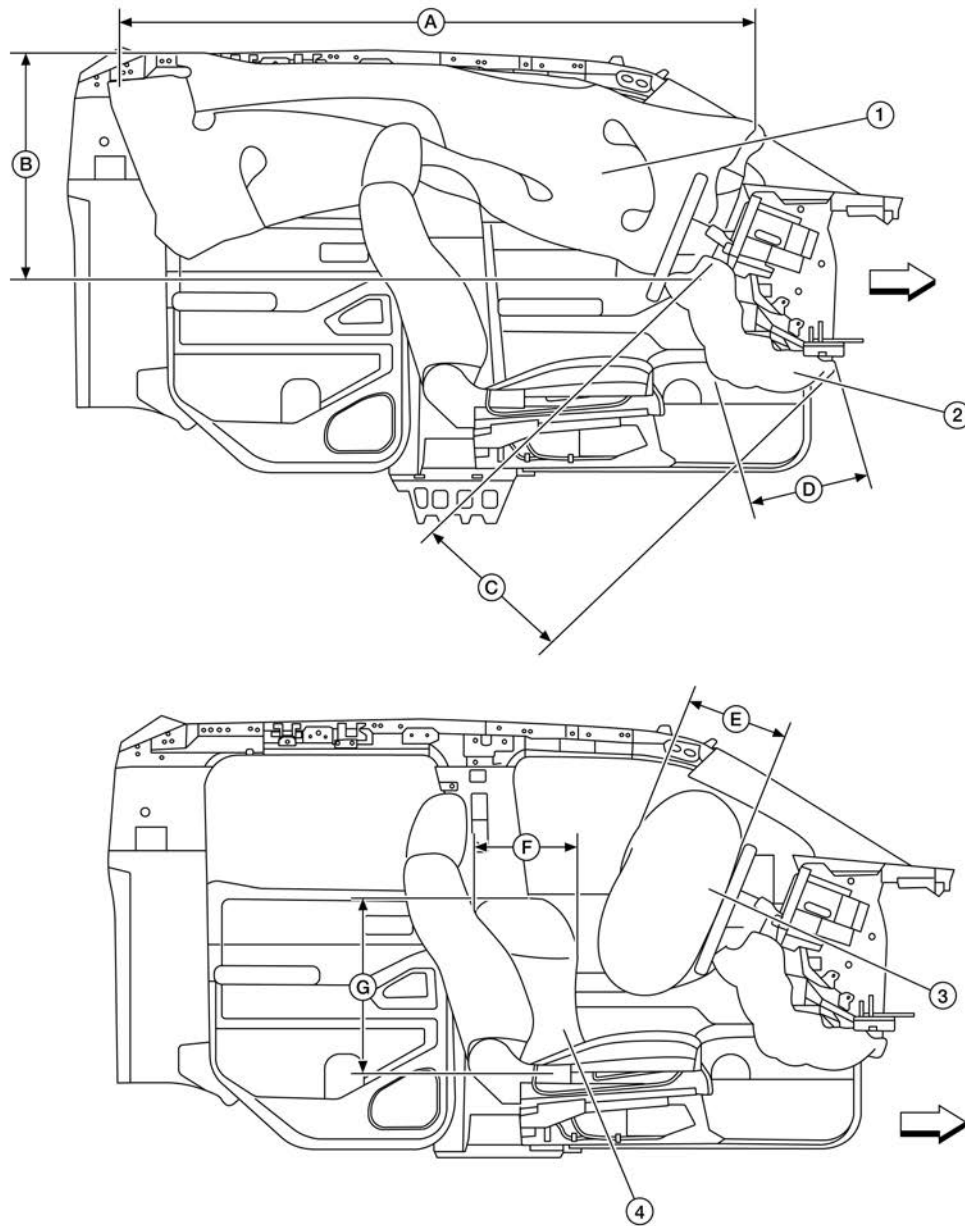
C. 208.1 mm (8.2 in)

D. 579.5 mm (22.8 in)

FRONT AIR BAG DEPLOYMENT ZONES — CREW CAB

[SAFETY INFORMATION]

Front Air Bag Inflation Zones — Driver Side View



TGAZIA0174ZZ

↔: Front of vehicle.

1. Maximum inflated side curtain air bag

4. Maximum inflated side air bag

C. 435.1 mm (17.1 in)

F. 270.4 mm (10.7 in)

2. Maximum inflated driver knee air bag

A. 1,676.5 mm (66.0 in)

D. 312.3 mm (12.3 in)

G. 489.6 mm (19.3 in)

3. Maximum inflated driver air bag

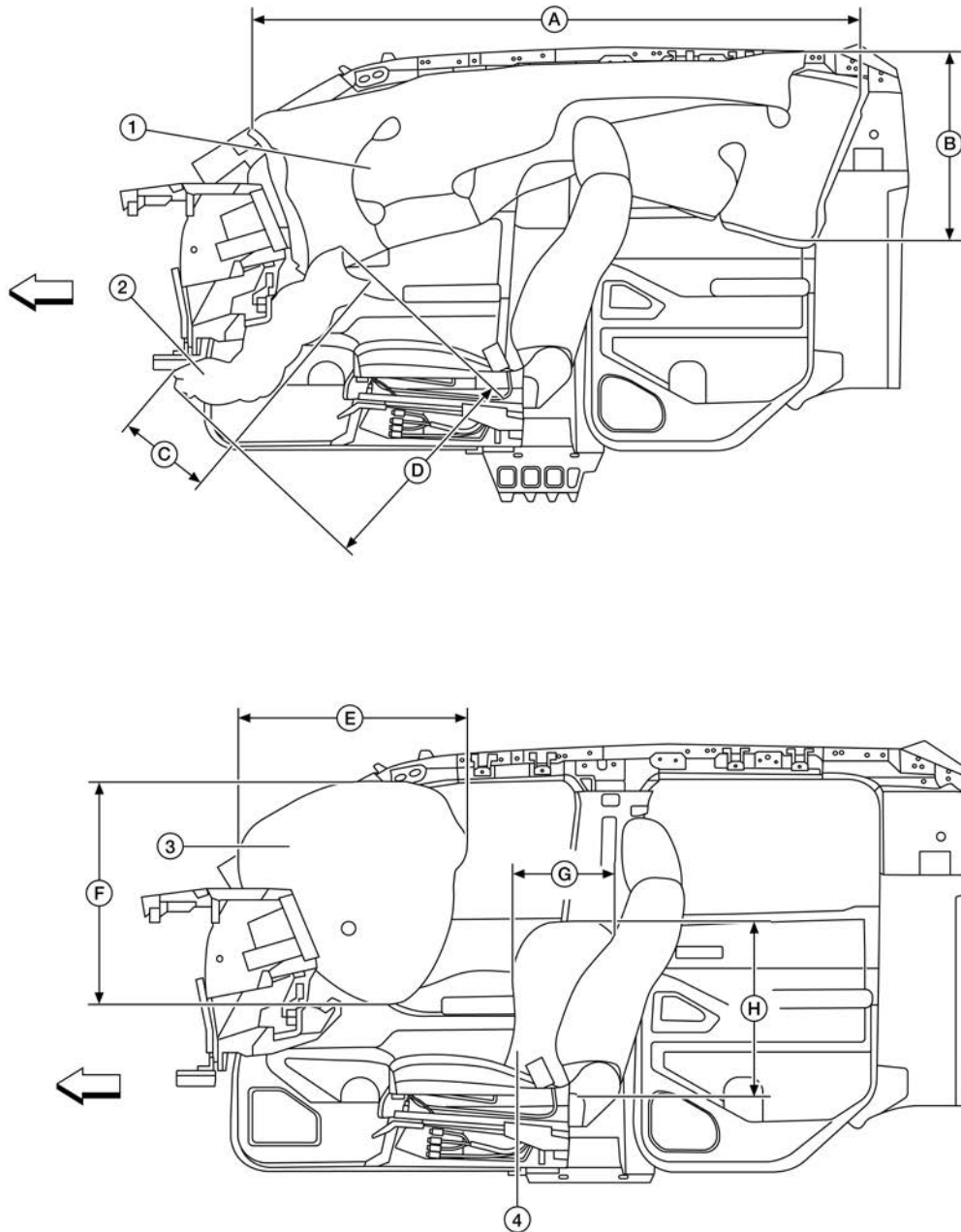
B. 646.9 mm (25.5 in)

E. 293.2 mm (11.5 in)

FRONT AIR BAG DEPLOYMENT ZONES — CREW CAB

[SAFETY INFORMATION]

Front Air Bag Inflation Zones — Passenger Side View



TGAZIA0175ZZ

↖: Front of vehicle.

1. Maximum inflated side curtain air bag

4. Maximum inflated side air bag

C. 256.4 mm (10.1 in)

F. 626.6 mm (24.7 in)

2. Maximum inflated passenger knee air bag

A. 1,676.5 mm (66.0 in)

D. 689.7 mm (27.2 in)

G. 270.4 mm (10.7 in)

3. Maximum inflated passenger air bag

B. 560.7 mm (22.1 in)

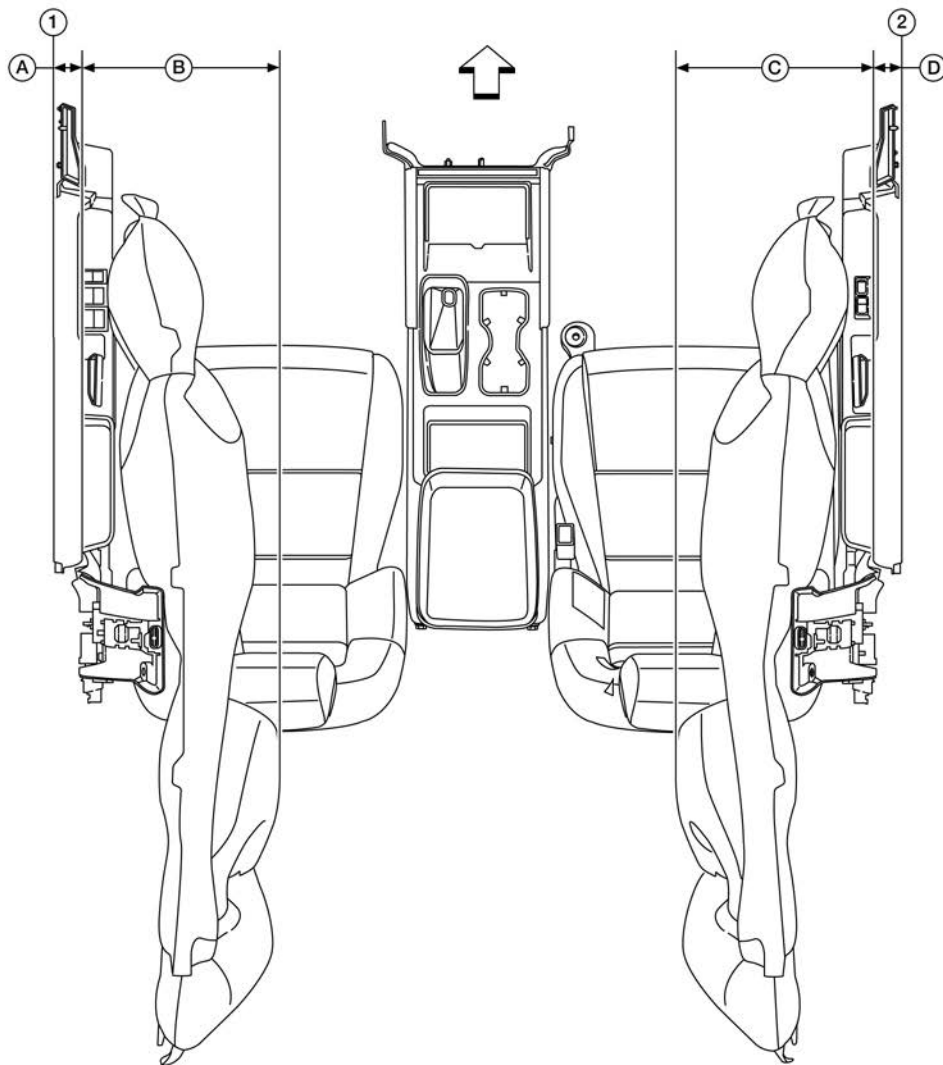
E. 601.1 mm (23.7 in)

H. 489.6 mm (19.3 in)

FRONT AIR BAG DEPLOYMENT ZONES — CREW CAB

[SAFETY INFORMATION]

Side Curtain Air Bag Inflation Zones — Overhead View



TGAZIA0176ZZ

↖: Front of vehicle.

1. Reference point: door glass trim edge

B. 369.5 mm (14.6 in)

2. Reference point: door glass trim edge

C. 369.5 mm (14.6 in)

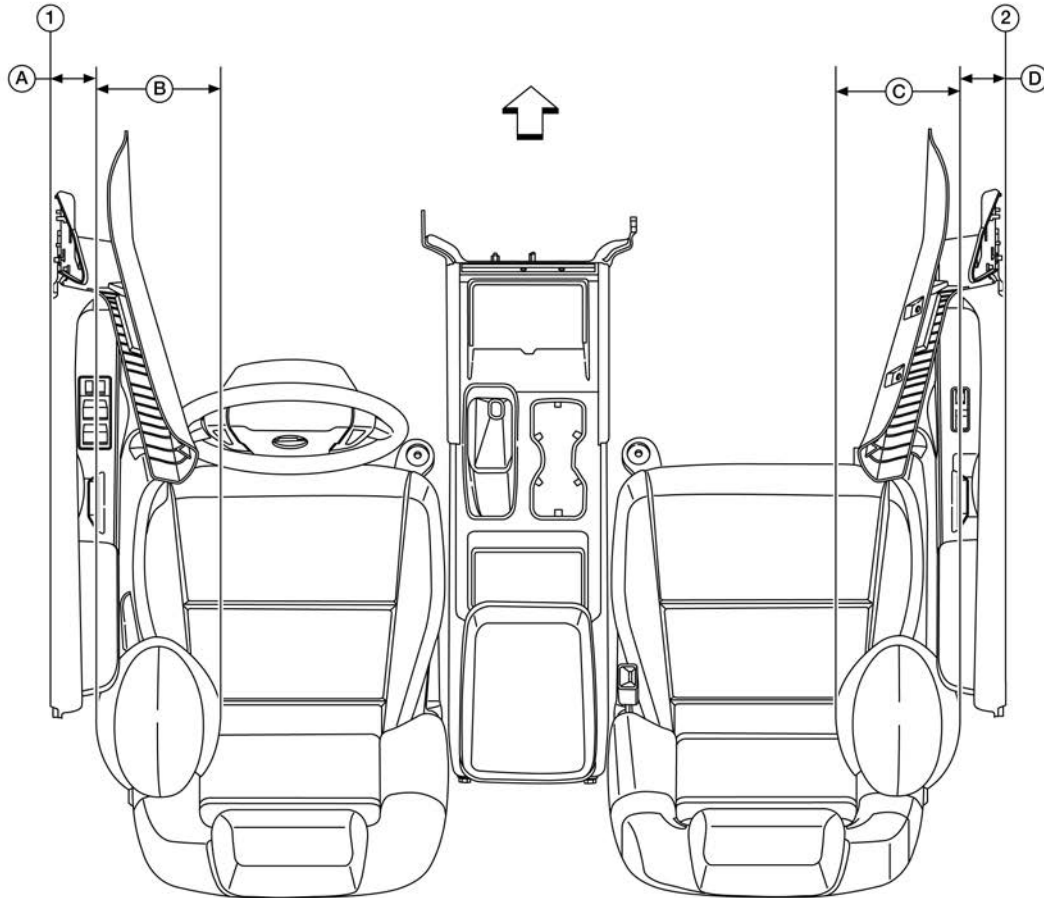
A. 52.6 mm (2.1 in)

D. 52.6 mm (2.1 in)

FRONT AIR BAG DEPLOYMENT ZONES — CREW CAB

[SAFETY INFORMATION]

Side Air Bag Inflation Zones — Overhead View



TGAZIA0177ZZ

↖: Front of vehicle.

1. Reference point: door glass trim edge

B. 208.1 mm (8.2 in)

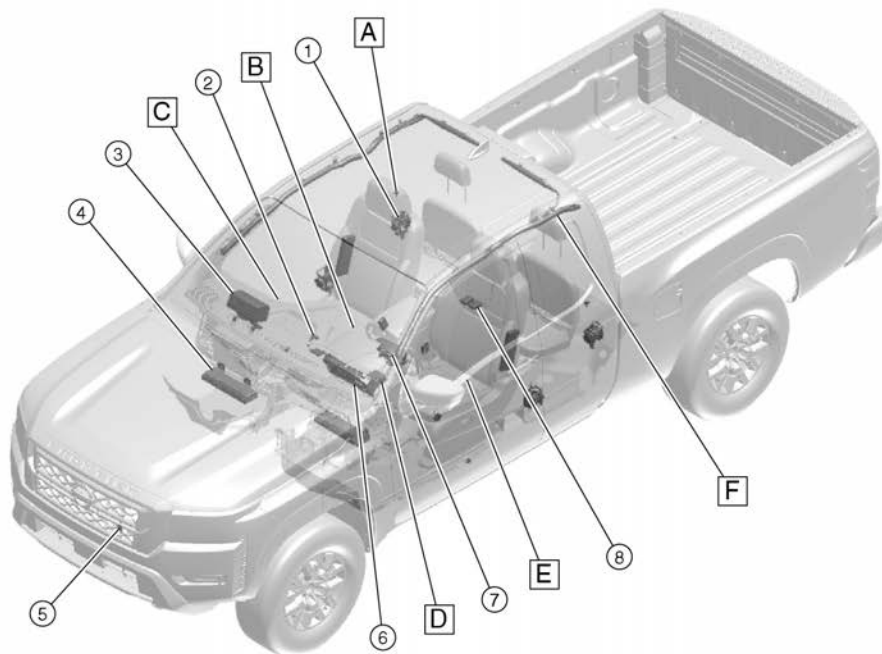
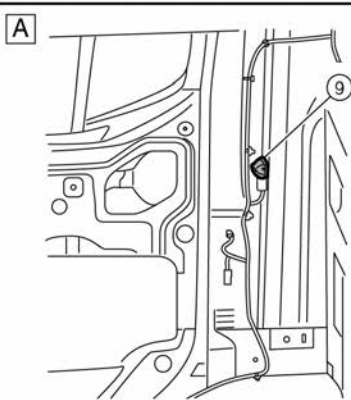
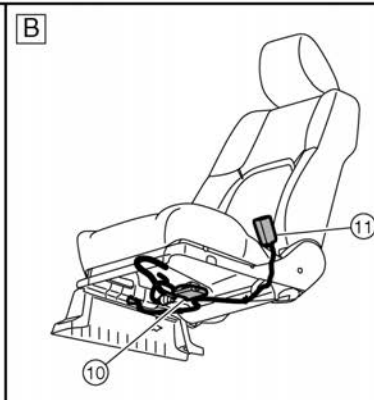
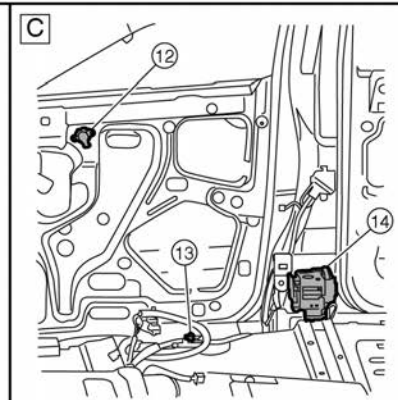
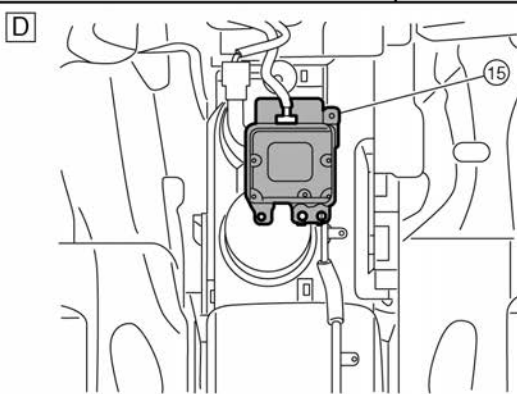
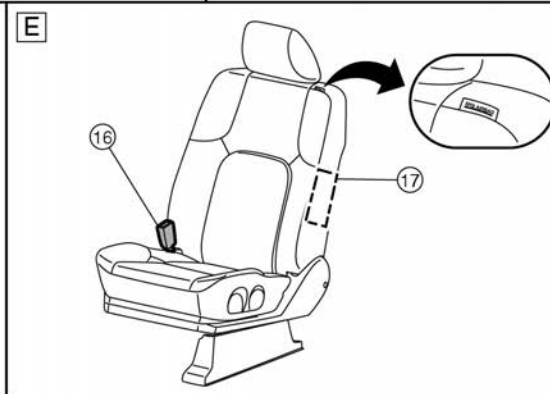
2. Reference point: door glass trim edge

C. 208.1 mm (8.2 in)

A. 72.4 mm (2.9 in)

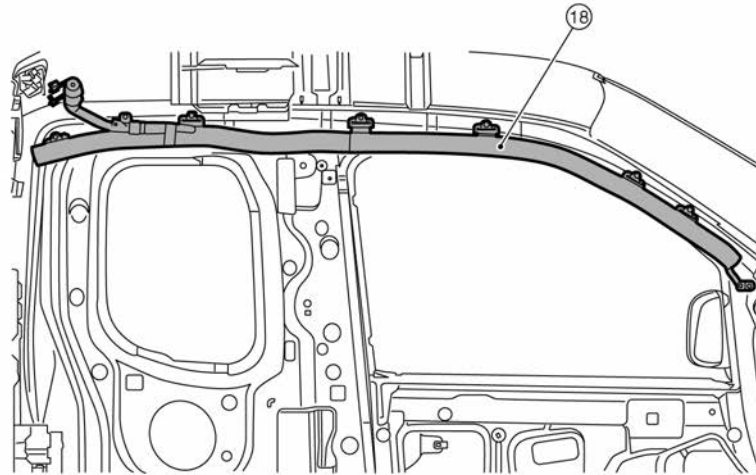
D. 72.4 mm (2.9 in)

SRS COMPONENT LOCATIONS — KING CAB®



TCAAZIA0212ZZ

F



TCAAZIA0213ZZ

- | | |
|--|---|
| 1. Rear RH seat belt pre-tensioner (LH similar) | 2. Front passenger air bag off indicator |
| 3. Front passenger air bag module | 4. Knee air bag module RH (LH similar) |
| 5. Crash zone sensor | 6. Instrument cluster |
| 7. Driver air bag module | 8. Rear seat belt buckle switch (LH & RH) |
| 9. Rear side air bag satellite sensor RH (LH similar) | 10. Occupant classification system control unit |
| 11. Front seat belt buckle switch RH | 12. Front door satellite sensor RH (LH similar) |
| 13. Front side air bag satellite sensor RH (LH similar) (if so equipped) | 14. Front RH seat belt pre-tensioner (LH similar) |
| 15. Air bag diagnosis sensor unit | 16. Front seat belt buckle switch LH |
| 17. Front LH side air bag module (RH similar) | 18. LH side curtain air bag module (RH similar) (view with headliner and A-pillar trim removed) |

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.

FRONT AIR BAG DEPLOYMENT ZONES — KING CAB®

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.

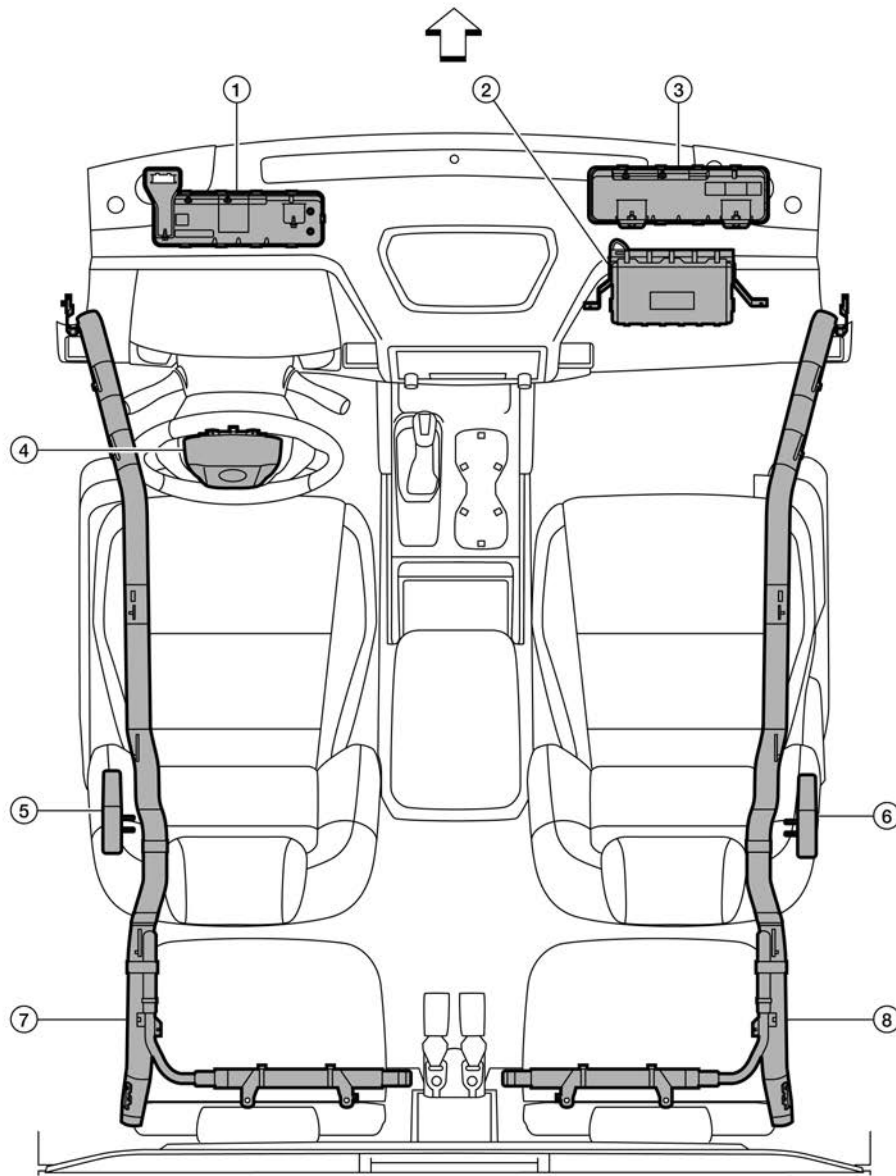
NOTE:

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 — KING CAB®

[SAFETY INFORMATION]

Front Air Bag Modules — Overhead View



TGAAZIA0214ZZ

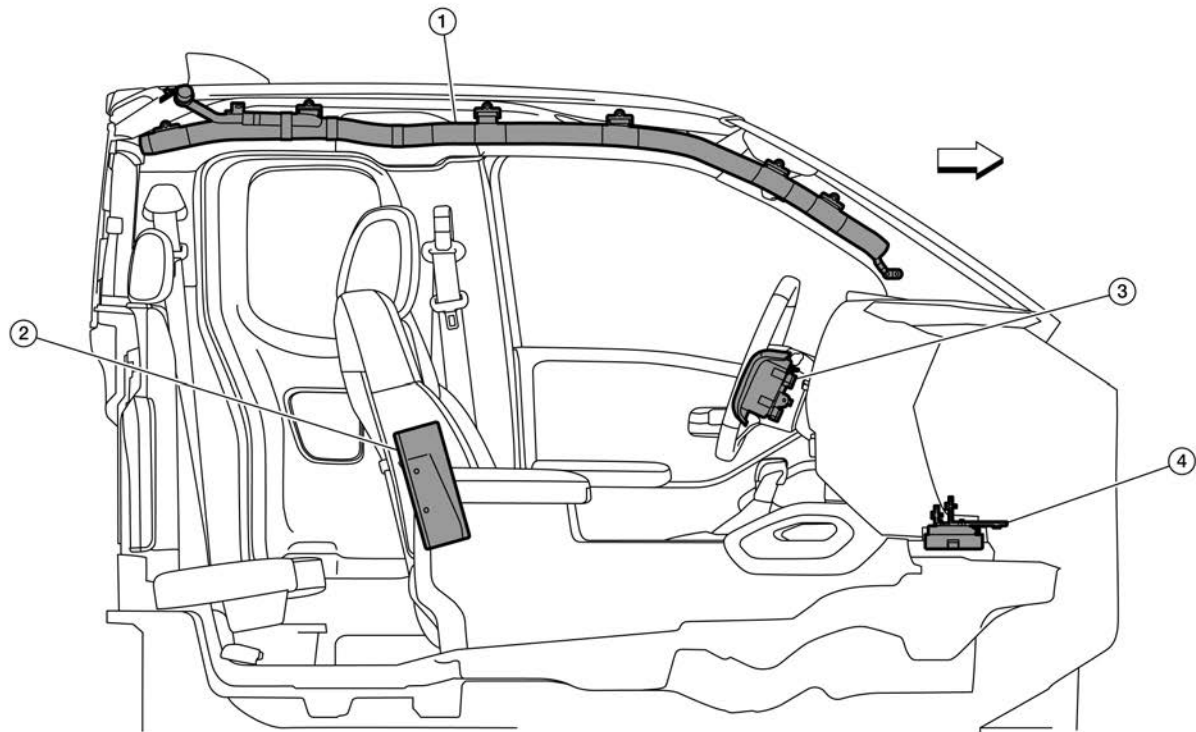
↖: Front of vehicle.

- | | | |
|--|---|-----------------------------------|
| 1. Driver knee air bag module | 2. Passenger air bag module | 3. Passenger knee air bag module |
| 4. Driver air bag module | 5. Side air bag module, driver | 6. Side air bag module, passenger |
| 7. Side curtain air bag module, driver | 8. Side curtain air bag module, passenger | |

FRONT AIR BAG DEPLOYMENT ZONES — KING CAB®

[SAFETY INFORMATION]

Front Air Bag Modules — Driver Side



TGAAZIA0215ZZ

↔: Front of vehicle.

1. Side curtain air bag module

2. Side air bag module

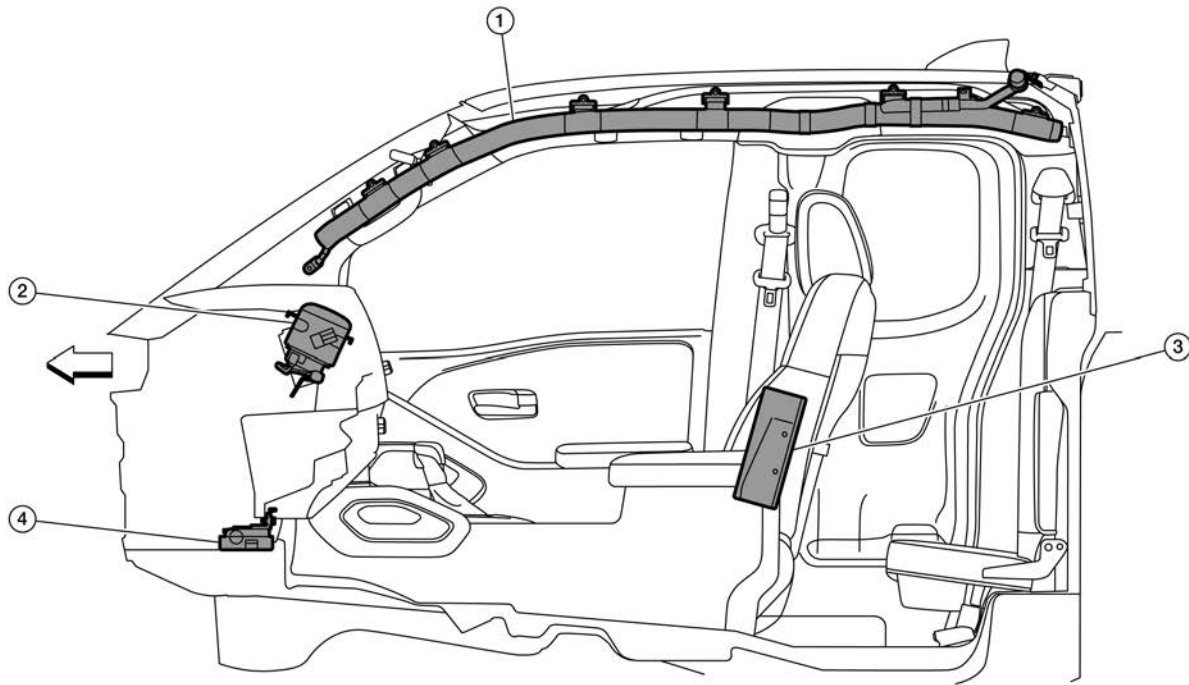
3. Driver air bag module

4. Driver knee air bag module

FRONT AIR BAG DEPLOYMENT ZONES — KING CAB®

[SAFETY INFORMATION]

Front Air Bag Modules — Passenger Side



TGAZIA0216ZZ

↖: Front of vehicle.

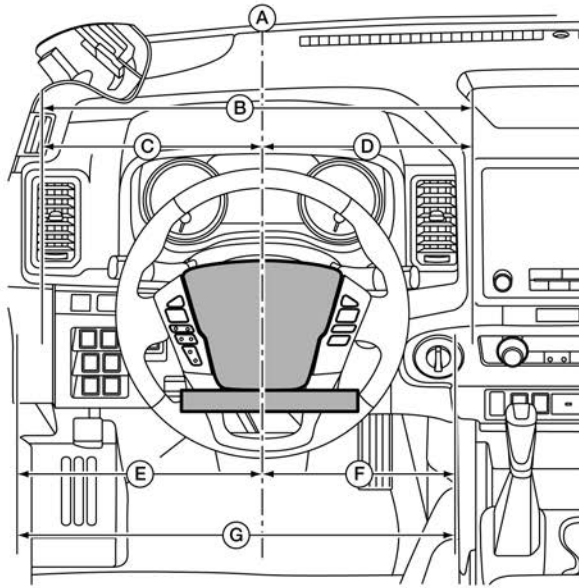
1. Side curtain air bag module

2. Passenger air bag module

3. Side air bag module

4. Passenger knee air bag
module

Driver Air Bag and Knee Air Bag Deployment Width



TGAZIA0210ZZ

A. Center of the driver air bag module housing

B. Maximum lateral projection of the deployed driver air bag
581.7 mm (22.9 in)

C. 292.2 mm (11.5 in)

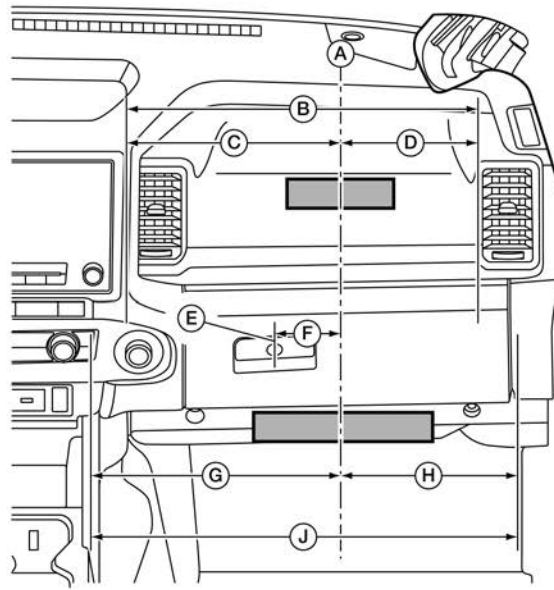
D. 289.4 mm (11.4 in)

E. 355.6 mm (14.0 in)

F. 262.2 mm (10.3 in)

G. Maximum lateral projection of the deployed driver knee air bag
617.8 mm (24.3 in)

Front Passenger Air Bag and Knee Air Bag Deployment Width



TGAAZIA0211ZZ

A. Center of passenger air bag module housing	B. Maximum lateral projection of the deployed passenger air bag 476.1 mm (18.7 in)	C. 237.4 mm (9.3 in)
D. 238.7 mm (9.4 in)	E. Reference point: glove box key hole	F. 29.7 mm (1.2 in)
G. 296.6 mm (11.7 in)	H. 296.6 mm (11.7 in)	J. Maximum lateral projection of the deployed passenger knee air bag 593.2 mm (23.4 in)

FRONT AIR BAG DEPLOYMENT ZONES — KING CAB®

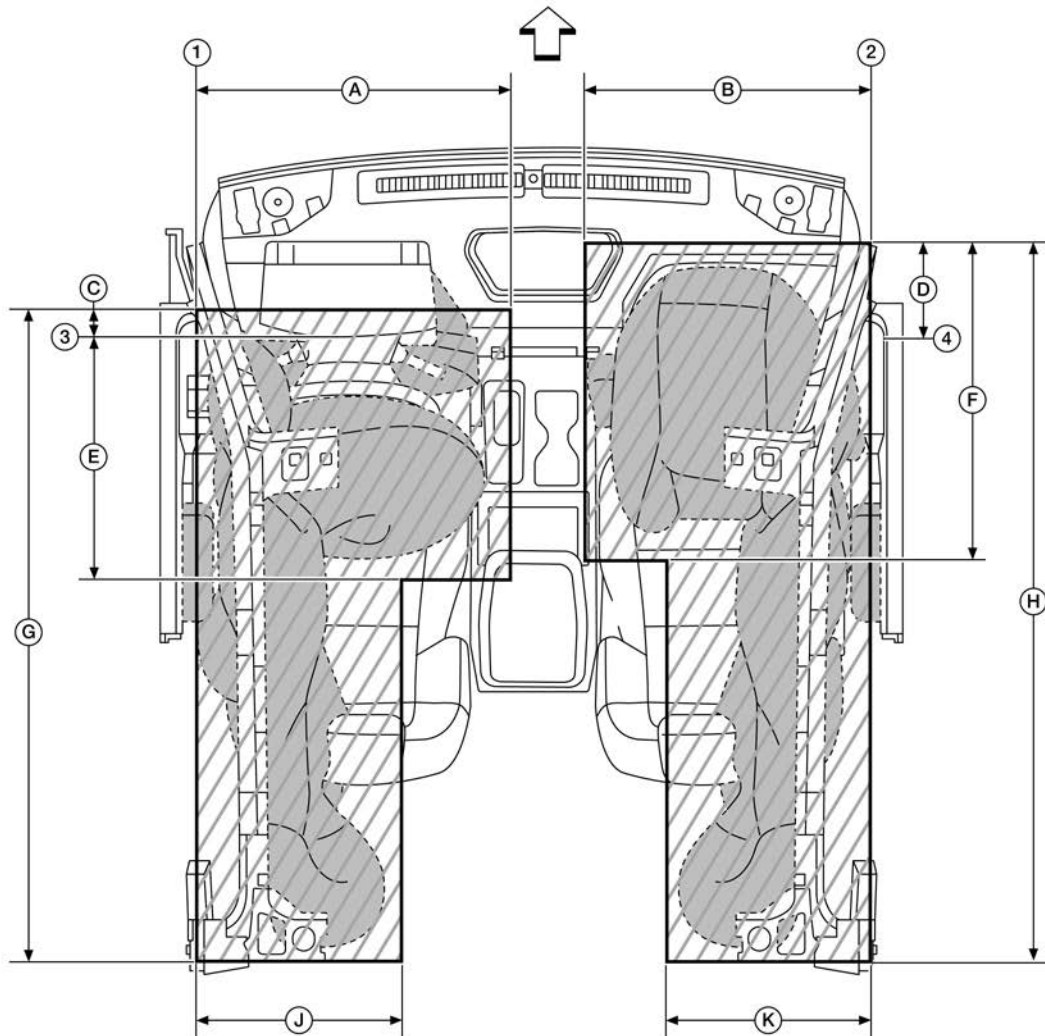
[SAFETY INFORMATION]

AIR BAG DEPLOYMENT KEEP-OUT ZONES

Front Air Bag Keep-Out Zones — Overhead View

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

 = Air Bag Inflation Zone



TGAZIA0180ZZ

: Front of vehicle.

1. Reference point: door glass trim edge

2. Reference point: door glass trim edge

3. Reference point: instrument panel edge (instrument cluster shroud)

4. Reference point: SRS label

A. 666.6 mm (26.2 in)

B. 603 mm (23.7 in)

C. 57 mm (2.2 in)

D. 215.6 mm (8.5 in)

E. 606.7 mm (23.9 in)

F. 717.6 mm (28.3 in)

G. 1,476 mm (58.1 in)

H. 1,630.6 mm (64.2 in)

J. 432.1 mm (17.0 in)

K. 430 mm (16.9 in)

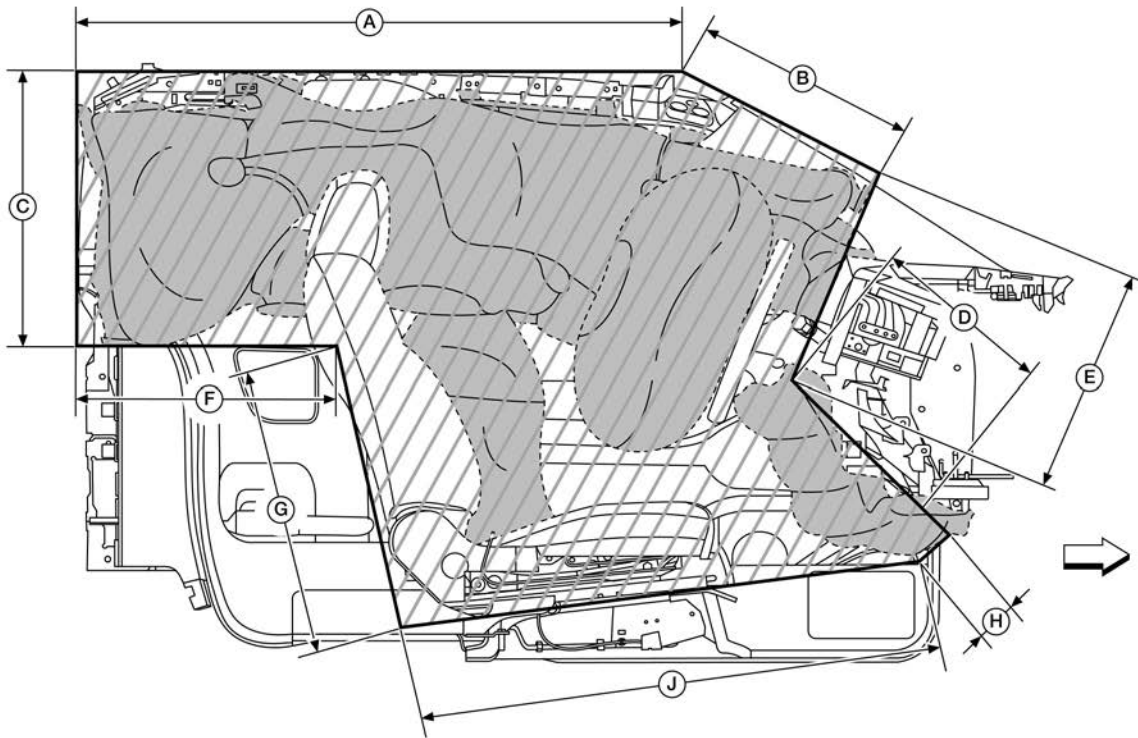
FRONT AIR BAG DEPLOYMENT ZONES — KING CAB®

[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



TGAAZIA0169ZZ

: Front of vehicle.

A. 1,135 mm (44.7 in)

B. 419.9 mm (16.5 in)

C. 555.4 mm (21.9 in)

D. 349.1 mm (13.7 in)

E. 467.8 mm (18.4 in)

F. 487 mm (19.2 in)

G. 580.9 mm (22.9 in)

H. 74 mm (2.9 in)

J. 981.6 mm (38.7 in)

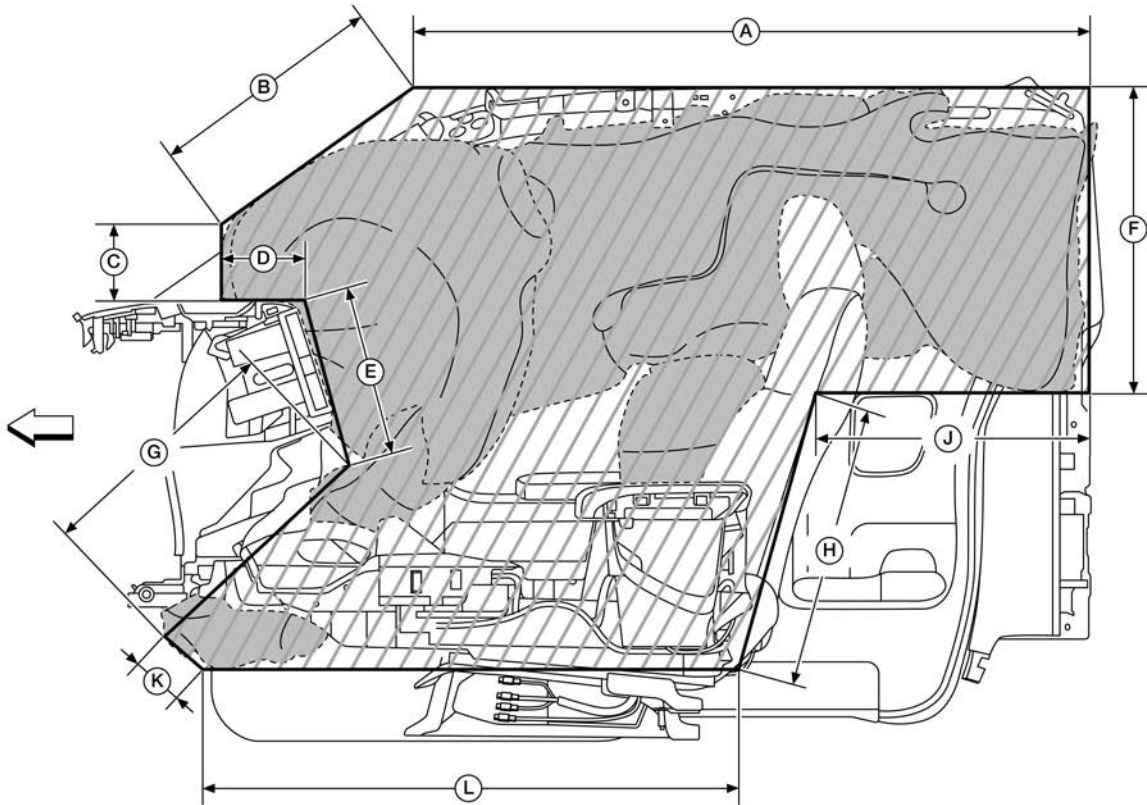
FRONT AIR BAG DEPLOYMENT ZONES — KING CAB®

[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



TGAAZIA0181ZZ

: Front of vehicle.

A. 1,233.7 mm (48.6 in)

D. 149.5 mm (5.9 in)

G. 467 mm (18.4 in)

K. 88.6 mm (3.5 in)

B. 426.8 mm (16.8 in)

E. 312.2 mm (12.3 in)

H. 521.6 mm (20.5 in)

L. 979.8 mm (38.6 in)

C. 138.7 mm (5.5 in)

F. 555 mm (21.9 in)

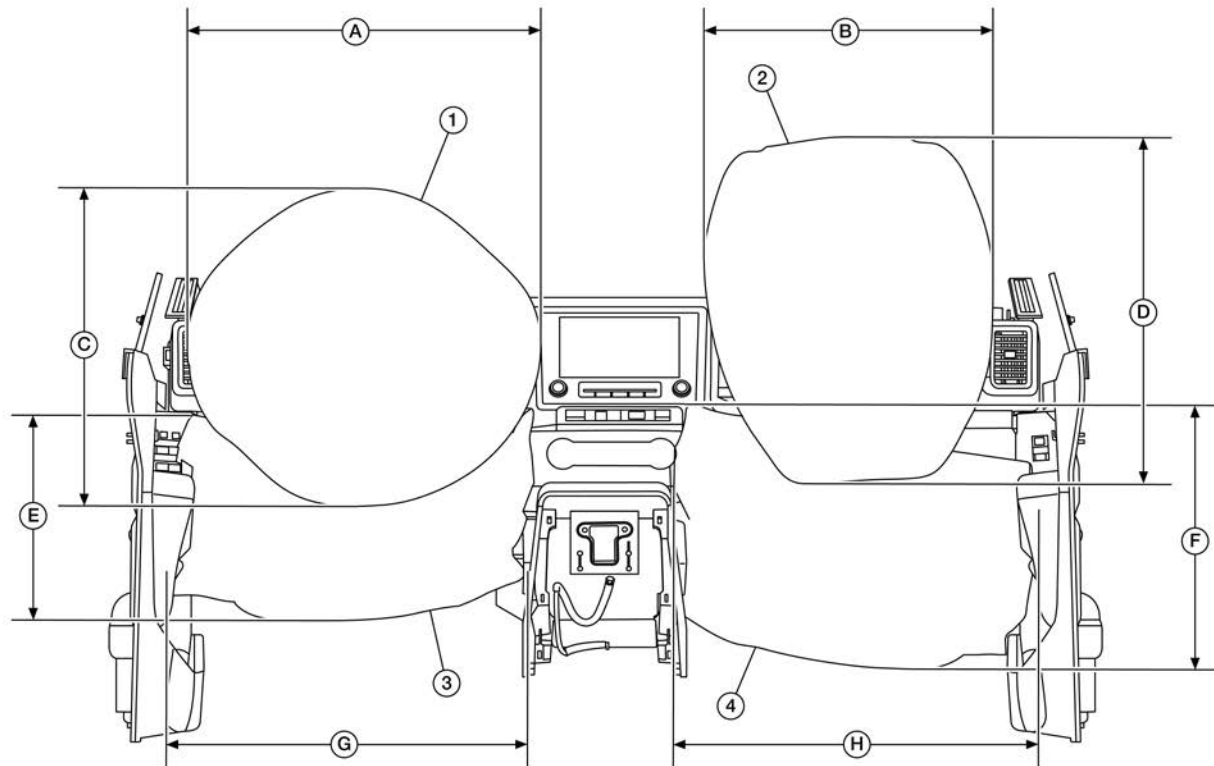
J. 498.8 mm (19.6 in)

FRONT AIR BAG DEPLOYMENT ZONES — KING CAB®

[SAFETY INFORMATION]

INFLATED AIR BAG ZONE DIMENSIONS

Driver and Passenger Air Bag Inflation Zones — Forward View



TGAZIA0172ZZ

1. Maximum inflated driver air bag

4. Maximum inflated front passenger knee air bag

C. 593.1 mm (23.4 in)

F. 478.4 mm (18.8 in)

2. Maximum inflated front passenger air bag

A. 581.7 mm (22.9 in)

D. 630.9 mm (24.8 in)

G. 617.8 mm (24.3 in)

3. Maximum inflated front driver knee air bag

B. 476.1 mm (18.7 in)

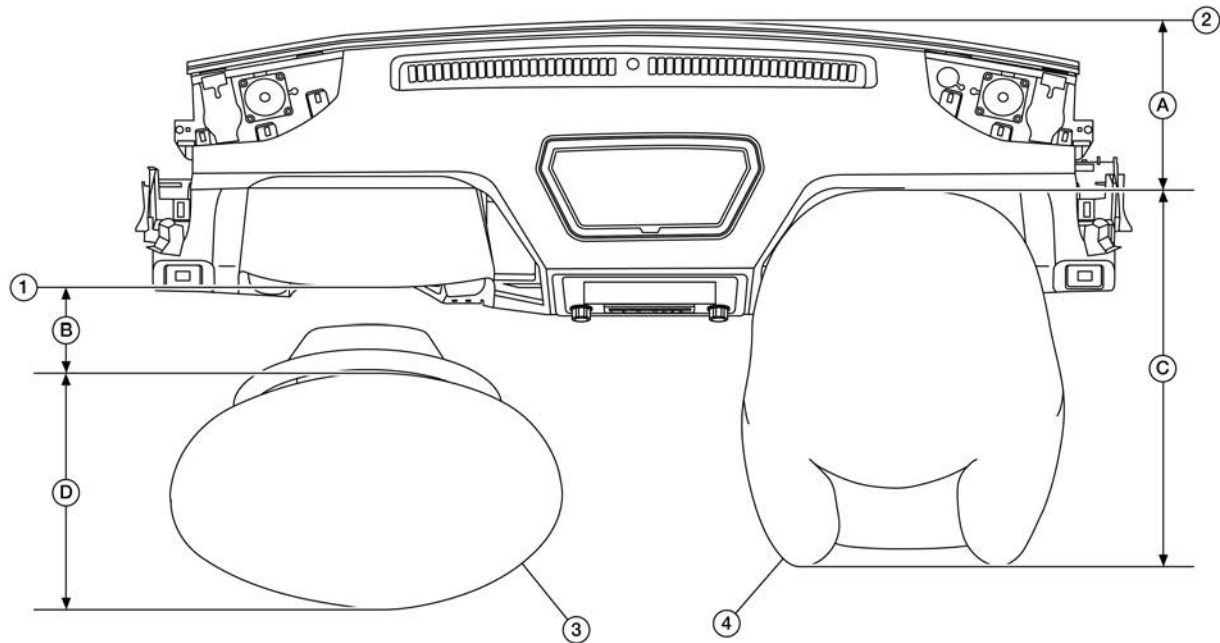
E. 372 mm (14.6 in)

H. 603.2 mm (23.8 in)

FRONT AIR BAG DEPLOYMENT ZONES — KING CAB®

[SAFETY INFORMATION]

Front Air Bag Inflation Zones — Overhead View



TGAZIA0171ZZ

1. Reference point: instrument panel edge (instrument cluster shroud)

2. Reference point: mating point of windshield and instrument panel at center line of front passenger air bag

3. Maximum inflated driver air bag

4. Maximum inflated front passenger air bag

A. 271 mm (10.7 in)

B. 137.8 mm (5.4 in)

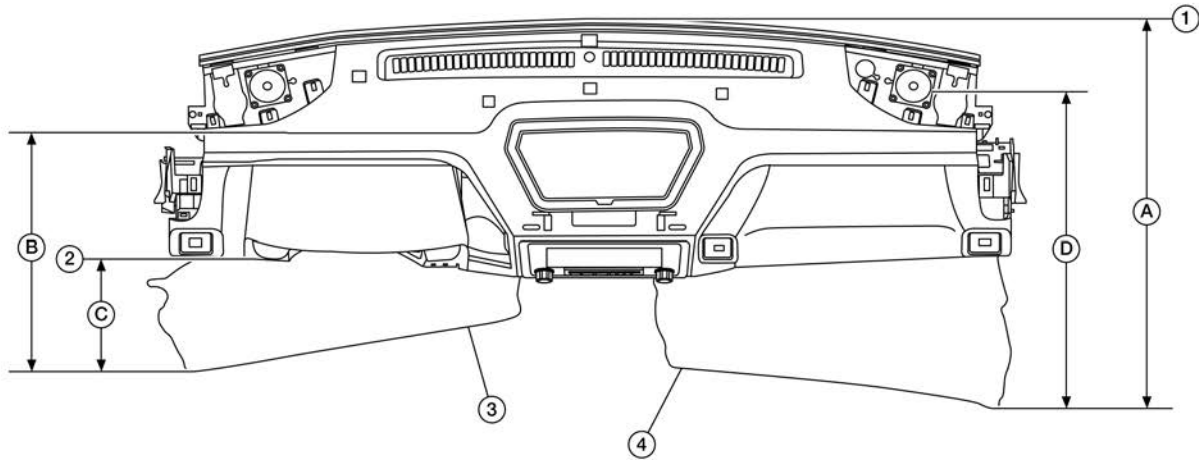
C. 601.4 mm (23.7 in)

D. 375.7 mm (14.8 in)

FRONT AIR BAG DEPLOYMENT ZONES — KING CAB®

[SAFETY INFORMATION]

Knee Air Bag Inflation Zones — Overhead View



TGAZIA0173ZZ

1. Reference point: mating point of windshield and instrument panel

2. Reference point: instrument panel edge (instrument cluster shroud)

3. Maximum inflated driver knee air bag

4. Maximum inflated passenger knee air bag

A. 712.6 mm (28.1 in)

B. 437.5 mm (17.2 in)

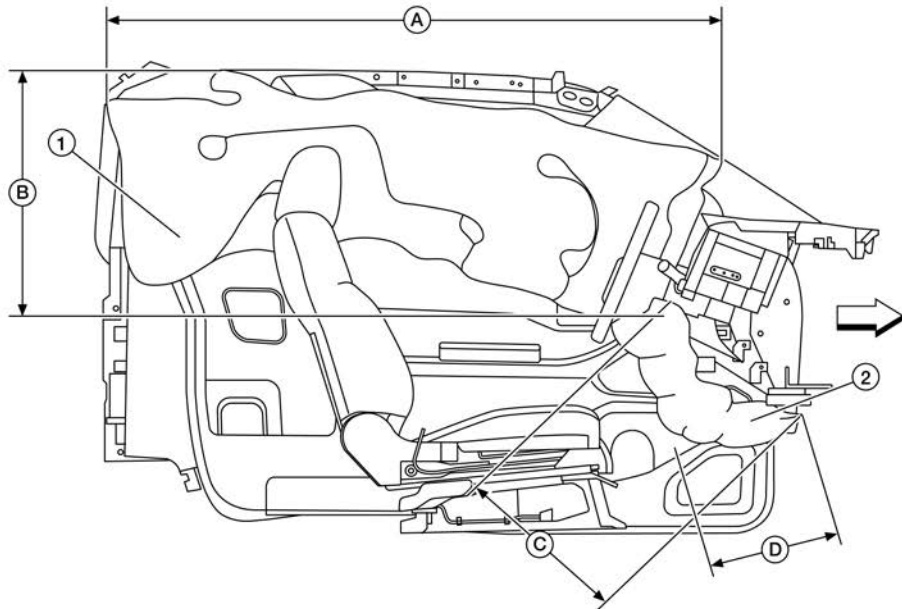
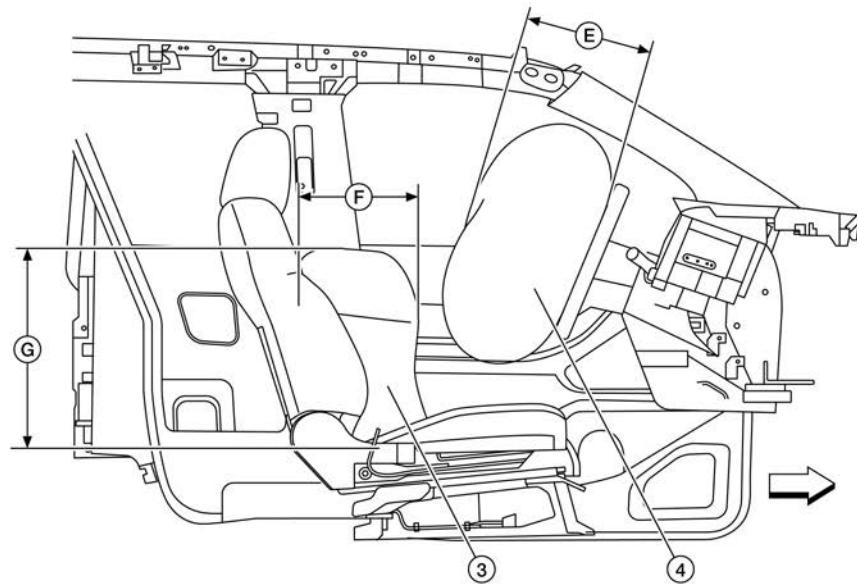
C. 208.1 mm (8.2 in)

D. 579.5 mm (22.8 in)

FRONT AIR BAG DEPLOYMENT ZONES — KING CAB®

[SAFETY INFORMATION]

Front Air Bag Inflation Zones — Driver Side View



TGAAZIA0182ZZ

↔: Front of vehicle.

1. Maximum inflated side curtain air bag

4. Maximum inflated driver air bag

C. 435.1 mm (17.1 in)

F. 270.4 mm (10.7 in)

2. Maximum inflated driver knee air bag

A. 1,471.7 mm (57.9 in)

D. 312.3 mm (12.3 in)

G. 489.6 mm (19.3 in)

3. Maximum inflated side air bag

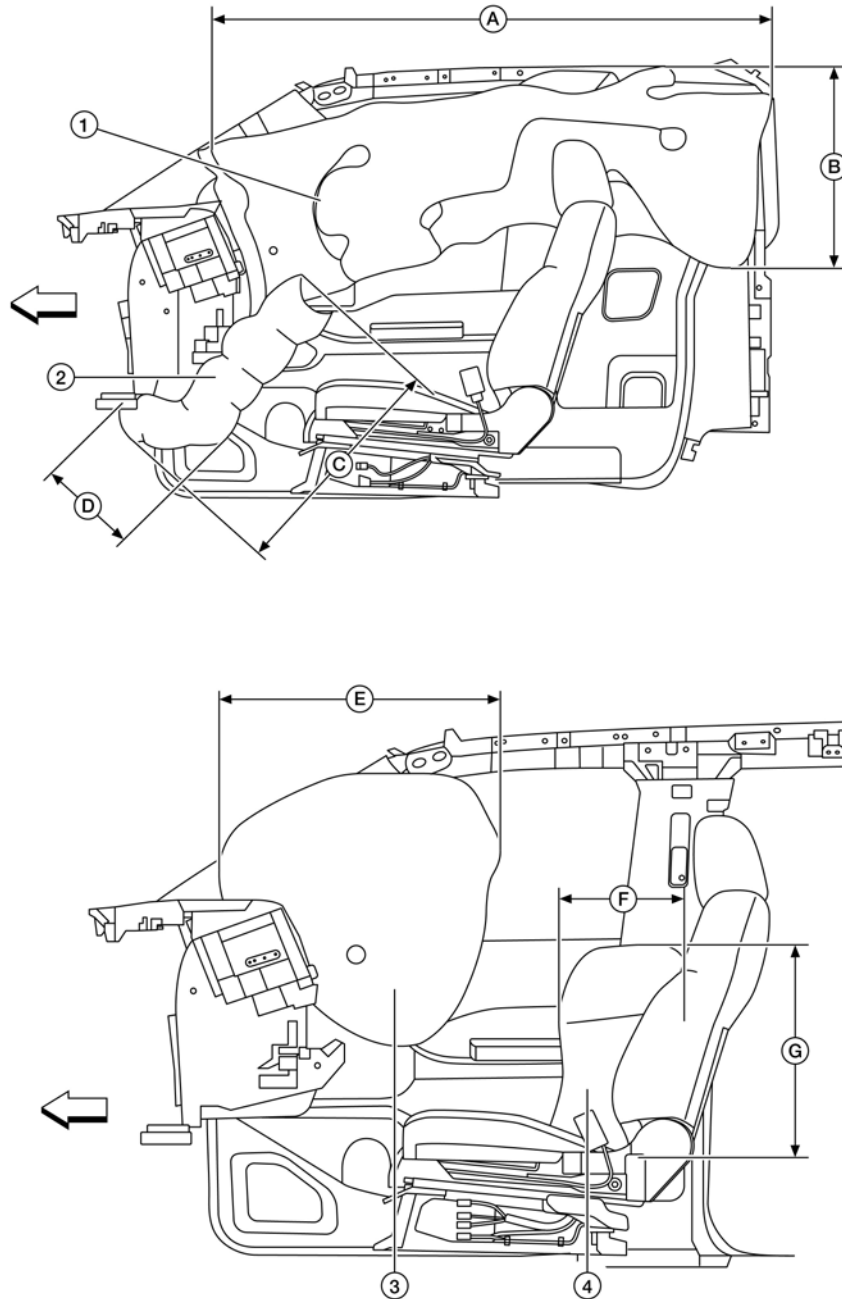
B. 678.1 mm (26.7 in)

E. 293.2 mm (11.5 in)

FRONT AIR BAG DEPLOYMENT ZONES — KING CAB®

[SAFETY INFORMATION]

Front Air Bag Inflation Zones — Passenger Side View



TGAAZIA0183ZZ

↖: Front of vehicle.

1. Maximum inflated side curtain air bag

4. Maximum inflated side air bag

C. 689.7 mm (27.2 in)

F. 270.4 mm (10.7 in)

2. Maximum inflated passenger knee air bag

A. 1,471.7 mm (57.9 in)

D. 256.4 mm (10.1 in)

G. 489.6 mm (19.3 in)

3. Maximum inflated passenger air bag

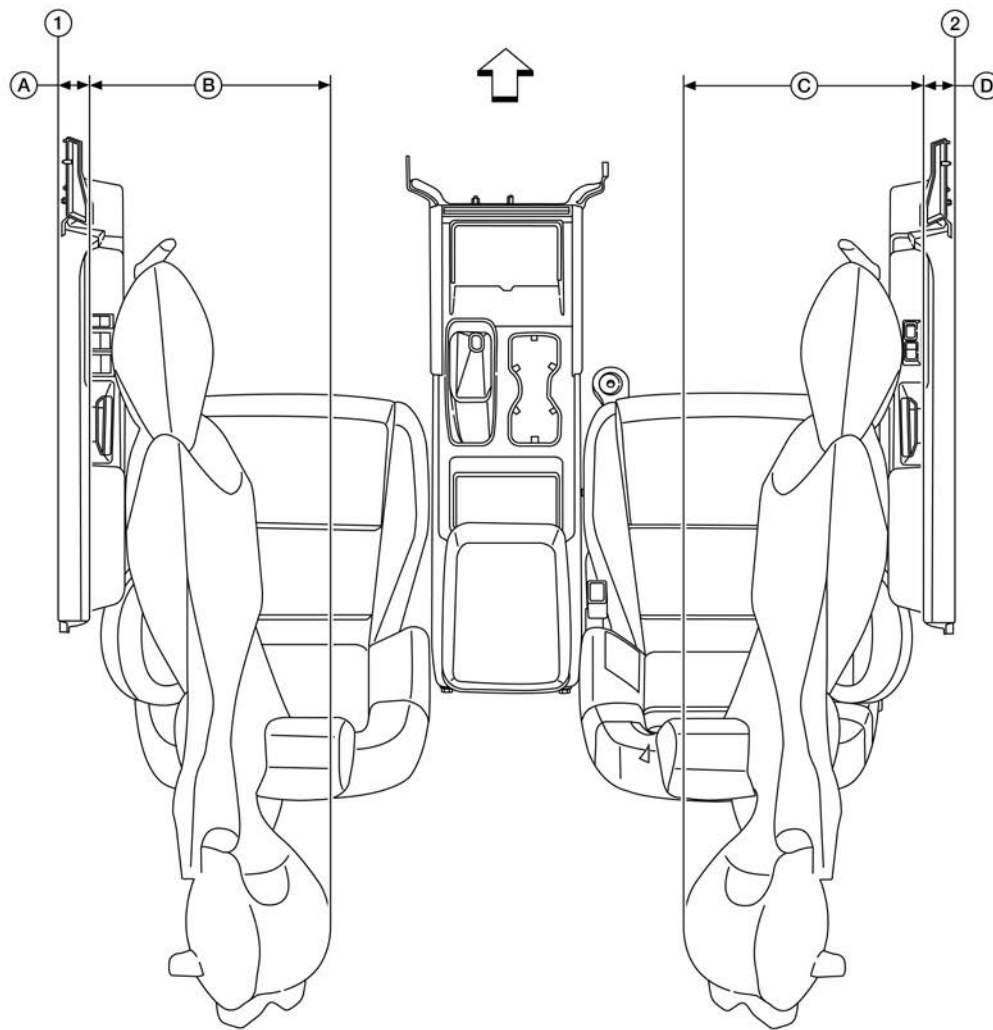
B. 678.1 mm (26.7 in)

E. 601.1 mm (23.7 in)

FRONT AIR BAG DEPLOYMENT ZONES — KING CAB®

[SAFETY INFORMATION]

Side Curtain Air Bag Inflation Zones — Overhead View



TGAZIA0178ZZ

↖: Front of vehicle.

1. Reference point: door glass trim edge

B. 426.6 mm (16.8 in)

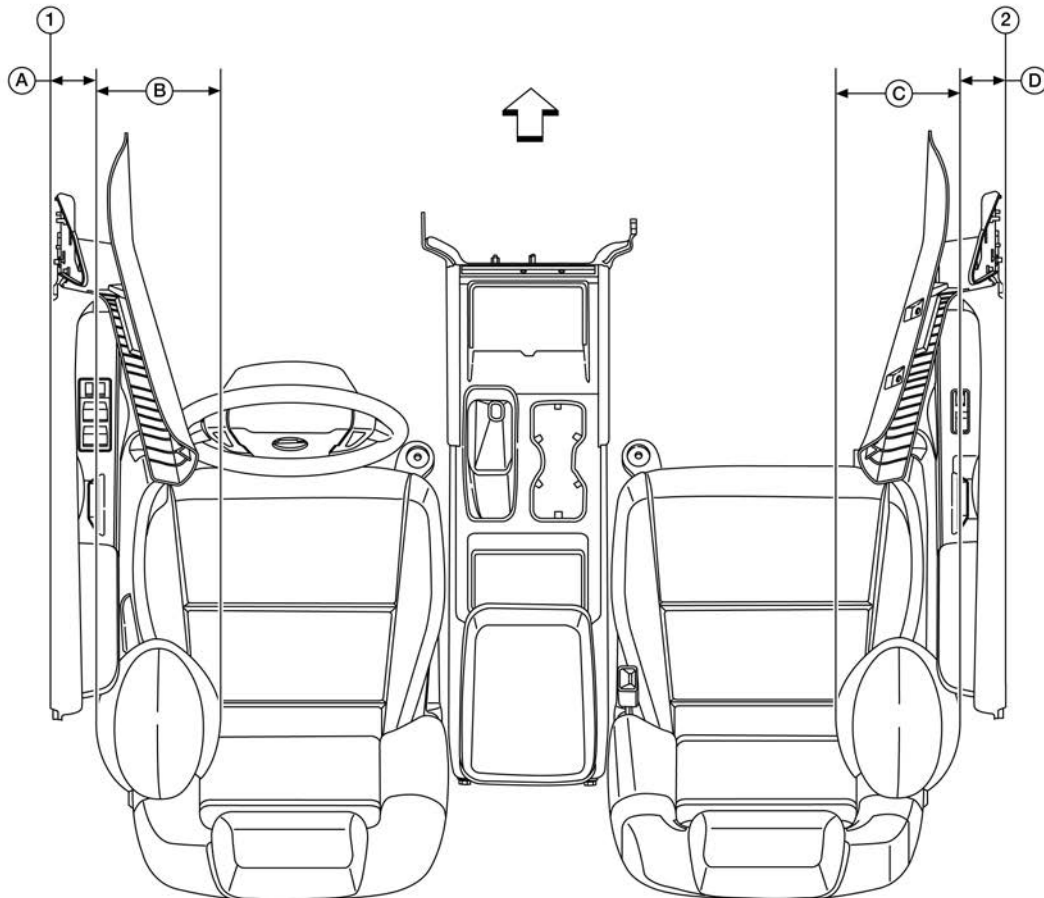
2. Reference point: door glass trim edge

C. 426.6 mm (16.8 in)

A. 52.6 mm (2.1 in)

D. 52.6 mm (2.1 in)

Side Air Bag Inflation Zones — Overhead View



TGAZIA0177ZZ

↔: Front of vehicle.

1. Reference point: door glass trim edge

B. 208.1 mm (8.2 in)

2. Reference point: door glass trim edge

C. 208.1 mm (8.2 in)

A. 72.4 mm (2.9 in)

D. 72.4 mm (2.9 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 label is applied near the tire and loading information on the driver's side B pillar, 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 105)

Any changes to the vehicle must still comply with FMVSS and CMVSS 105 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
 - engine belt drive
- 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 \(CG\) \(pg. 55\)](#).
- The vertical distance from the ground to the completed vehicle center of gravity should not exceed the following at Gross Vehicle Weight Rating (GVWR).

2022					
King Cab®		Crew Cab SWB		Crew Cab LWB	
2WD mm (in)	4WD mm (in)	2WD mm (in)	4WD mm (in)	2WD mm (in)	4WD mm (in)
855.0 (33.7)	855.0 (33.7)	854.0 (33.6)	854.0 (33.6)	840.6 (33.1)	840.6 (33.1)
2023 early*					
King Cab®		Crew Cab SWB		Crew Cab LWB	
2WD mm (in)	4WD mm (in)	2WD mm (in)	4WD mm (in)	2WD mm (in)	4WD mm (in)
855.0 (33.7)	855.0 (33.7)	854.0 (33.6)	854.0 (33.6)	840.6 (33.1)	840.6 (33.1)
Starting 2023 late*					
King Cab®		Crew Cab SWB		Crew Cab LWB	
2WD mm (in)	4WD mm (in)	2WD mm (in)	4WD mm (in)	2WD mm (in)	4WD mm (in)
822.0 (32.5)	855.0 (33.7)	799.0 (31.5)	854.0 (33.6)	811.0 (31.9)	840.6 (33.1)

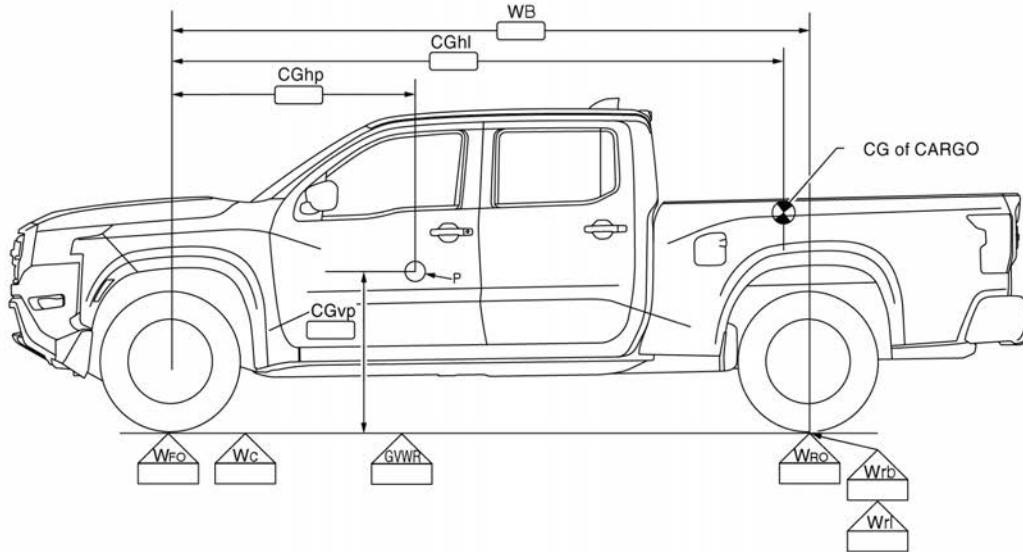
NOTE:

*Check battery orientation to identify 2023 model year early or late production, refer to [How to identify Early/Late production \(pg. 81\)](#)

CENTER OF GRAVITY (CG) – CREW CAB

Vehicle Center of Gravity Measurement Process

Introduction



TGAZIA0030GB

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) [mm (in)].
CG_{vl}	Vertical distance from the ground to the center of gravity of the cargo [mm (in)].
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.

Term	Definition
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

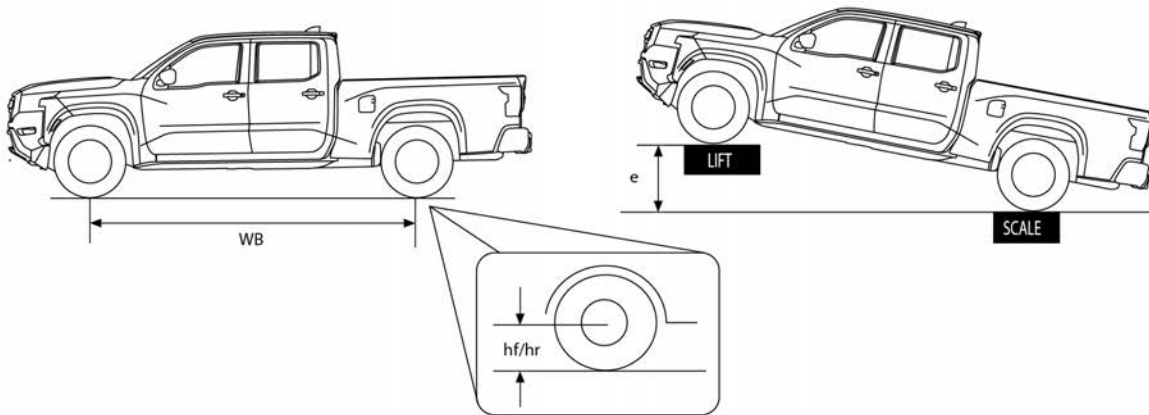
Setup

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 design value.
- Tire: Production parts shall be used. Tire pressure should be set to the specified pressure on Tire Placard 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 23° 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 safety, apply the parking brake.

Measurement Methods

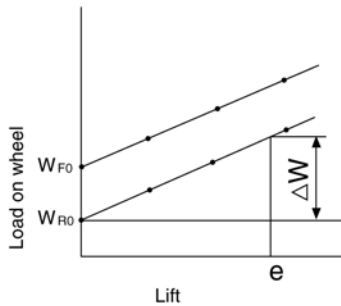
1. The vehicle should be at its unloaded vehicle condition, with full fluids and equipped with spare tire, jack and tools.
2. Measure the wheelbase of the vehicle (WB) on the left-hand and right-hand sides of the vehicle and use the average value for the calculations. Measure the height of the 4 wheel 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 a 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.



TGAZIA0031GB

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.
2. Obtain the shifted load (ΔW_{RO} and ΔW_{FO}) for the lift (e) according to the graph. ΔW_{RO} and ΔW_{FO} with $e = 0.5$ m (1.6 ft.) shall be representative value.
3. Calculate the CG height by using the following equations:



Front wheels raised

$$CG_V = \frac{\Delta W}{W} WB \frac{\sqrt{WB^2 - e^2}}{e} + h_F + \frac{W_{RO}}{W} (h_R - h_F)$$

Rear wheels raised

$$CG_V = \frac{\Delta W}{W} WB \frac{\sqrt{WB^2 - e^2}}{e} + h_R + \frac{W_{FO}}{W} (h_F - h_R)$$

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)

ΔW : shifted load kg (lbs)

WB : Wheelbase m (ft)

h_F : Front wheel center height m (ft)

h_R : 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)

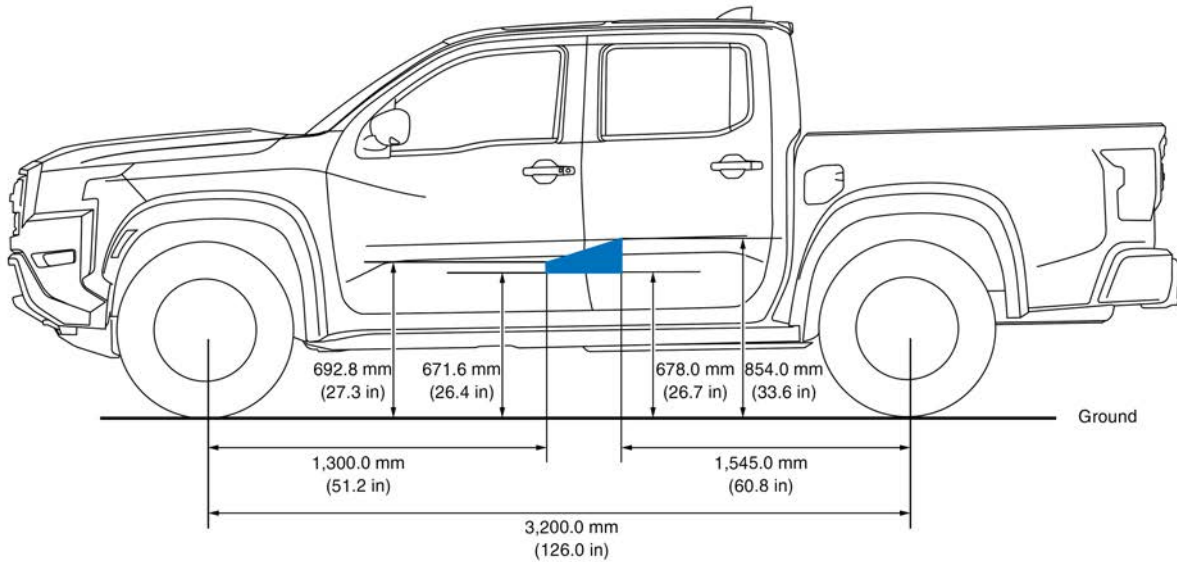
The diagram below shows the vehicle center of gravity envelope.

The center of gravity zone (CG zone) shall not be exceeded by any upfitter package.

NOTE:

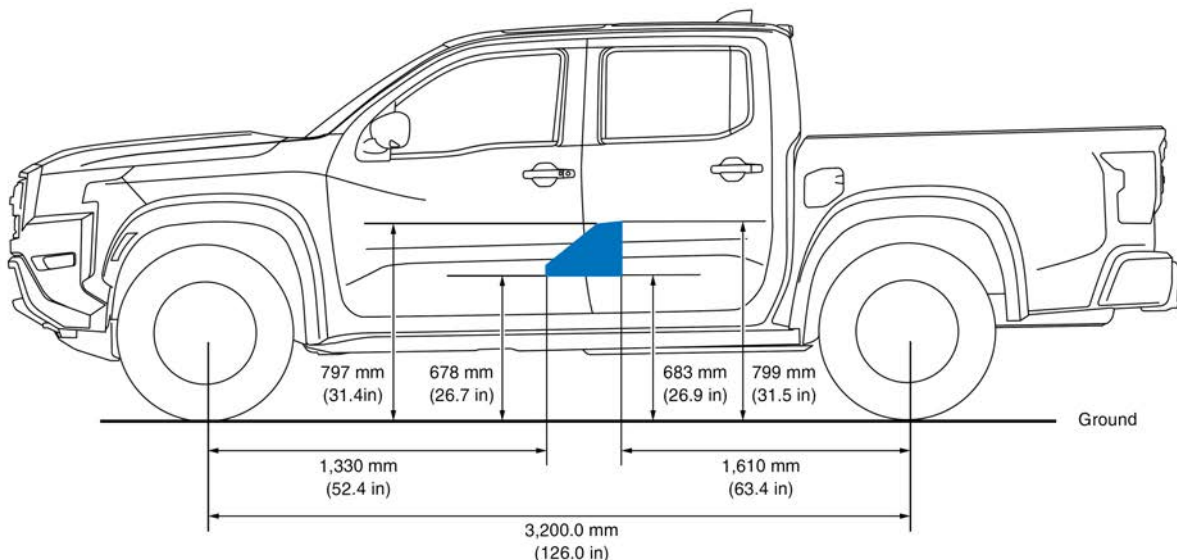
Check battery orientation to identify 2023 model year early or late production, refer to [How to identify Early/Late production \(pg. 81\)](#)

Crew Cab Standard Wheelbase 2022 and 2023 early Model Year - 2WD & 4WD / starting with 2023 late 4WD



TGAAZIA0053GB

Crew Cab Standard Wheelbase starting with 2023 late 2WD

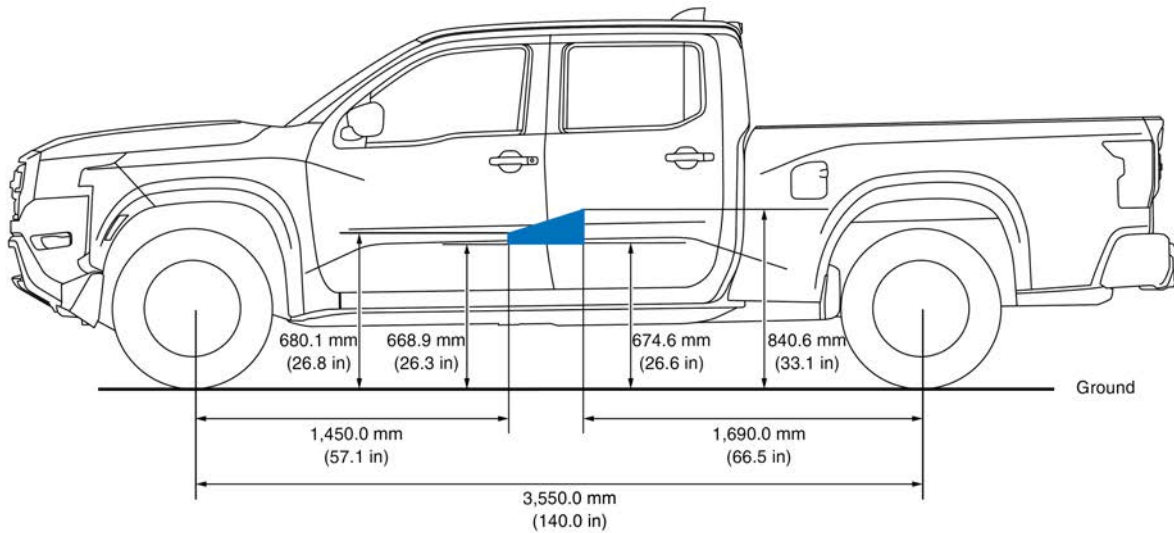


TGAAZIA0056GB

CENTER OF GRAVITY (CG) – CREW CAB

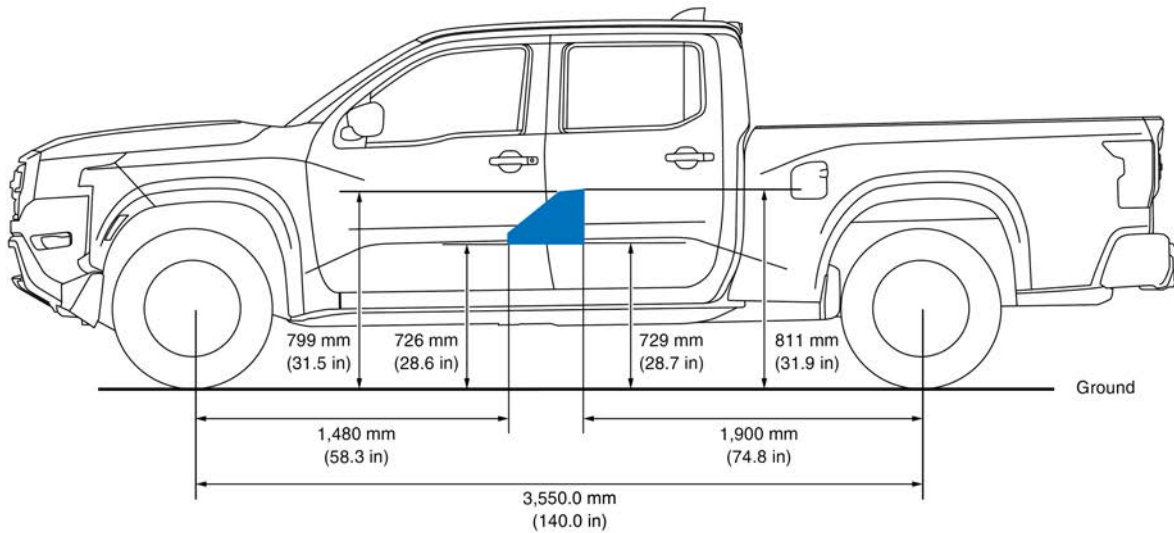
[SAFETY INFORMATION]

Crew Cab Long Wheelbase 2022 and 2023 early Model Year - 2WD & 4WD / starting with 2023 late 4WD



TGAZIA0051GB

Crew Cab Long Wheelbase starting with 2023 late 2WD



TGAZIA0054GB

Maximum Unloaded Vehicle Weight (UVW) Resource Chart — 2022 Model Year

The maximum UVW / ARC values are shown below.

Model				UVW Kg (lbs)	GVWR Kg (lbs)	UVW Payload Kg (lbs) *2	ARC Weight Kg (lbs) *3	Max Cargo Kg (lbs) *4	GAWR Kg (lbs)		Base Curb Weight Kg (lbs)		
Engine	Market	Drive	Model Grade *1						Front	Rear	Front	Rear	Total
VQ38DD (3.8L)	USA	2WD	S	2,275.5 (5,017.5)	2,727 (6,013)	451.5 (995.6)	239 (525.0)	Refer to "Max C"	1,495 (3,296)	1,558 (3,435)	1,118.3 (2,465.9)	910.6 (2,007.9)	2,028.9 (4,473.7)
		4WD		2,366.1 (5,217.3)		360.9 (795.8)					1,200.5 (2,647.1)	916.0 (2,019.8)	2,116.5 (4,666.9)
	USA	2WD	SV	2,262.5 (4,988.8)		464.5 (1,024.2)					1,112.7 (2,453.5)	906.1 (1,998.0)	2,018.8 (4,451.5)
		2WD (LWB)		2,323.5 (5,123.3)		403.5 (889.7)					1,159.9 (2,557.6)	914.5 (2,016.5)	2,074.4 (4,574.1)
		4WD		2,353.1 (5,188.6)		373.9 (824.4)					1,194.9 (2,634.8)	911.5 (2,009.9)	2,106.4 (4,644.6)
		4WD (LWB)		2,414.1 (5,323.1)		312.9 (689.9)					1,245.7 (2,746.8)	919.5 (2,027.5)	2,165.1 (4,774.0)
		4WD (LWB)		2,439.4 (5,378.9)		287.6 (634.2)					1,239.8 (2,733.8)	948.4 (2,091.2)	2,188.1 (4,824.8)
		4WD (LWB)		2,281.0 (5,026.8)		446.0 (985.2)					1,133.4 (2,498.6)	908.6 (2,003.2)	2,042.0 (4,501.8)
	MEX	2WD		2,288.8 (5,046.8)		438.2 (966.2)					1,130.9 (2,493.6)	914.0 (2,015.4)	2,044.9 (4,509.0)
	USA	2WD	PROX	2,381.3 (5,250.8)		345.7 (762.3)					1,210.9 (2,670.0)	924.8 (2,039.2)	2,135.7 (4,709.2)
	USA	4WD	PRO4X	2,382.8 (5,254.1)		344.2 (759.0)					1,212.0 (2,672.5)	925.6 (2,040.9)	2,137.6 (4,713.4)
	CAN			2,435.7 (5,370.7)		291.3 (642.3)					1,224.4 (2,699.8)	962.0 (2,121.2)	2,186.4 (4,821.0)
	MEX												

*1: Wheelbase for all model grades is STD: 3,200 mm (125.9 in) / LWB: 3,550 mm (139.7 in).

*2: Load rating representing maximum allowable weight of people and cargo after ARC Weight and options are applied.

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

*4: 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 — 2023 Model Year (early production)

NOTE:

Check battery orientation to identify 2023 model year early or late production, refer to [How to identify Early/Late production \(pg. 81\)](#)

The maximum UVW / ARC values are shown below.

Model				UVW Kg (lbs)	GVWR Kg (lbs)	UVW Payload Kg (lbs) *2	ARC Weight Kg (lbs) *3	Max Cargo Kg (lbs) *4	GAWR Kg (lbs)		Base Curb Weight Kg (lbs)		
Engine	Market	Drive	Model Grade *1						Front	Rear	Front	Rear	Total
VQ38DD (3.8L)	USA	2WD	S	2,266 (4,995.3)	2,727 (6,013)	461 (1,016.7)	239 (525.0)	Refer to "Max C"	1,495 (3,296)	1,558 (3,435)	1,115.2 (2,459.0)	911.6 (2,010.1)	2,026.8 (4,469.1)
		4WD		2,340 (5,159.7)		387 (852.3)					1,190.1 (2,624.2)	911.3 (2,009.4)	2,101.4 (4,633.6)
	USA	2WD	SV	2,255 (4,971.5)		472 (1,040.5)					1,109.1 (2,445.6)	906.9 (1,999.7)	2,016.0 (4,445.3)
		2WD (LWB)		2,343 (5,164.6)		384 (847.4)					1,151.0 (2,538.0)	952.6 (2,100.5)	2,103.6 (4,638.4)
		4WD		2,332 (5,140.5)		395 (871.5)					1,186.5 (2,616.2)	906.2 (1,998.2)	2,092.7 (4,614.4)
		4WD (LWB)		2,433 (5,364.4)		294 (647.6)					1,236.8 (2,727.1)	957.5 (2,111.3)	2,194.3 (4,838.4)
	CAN	4WD (LWB)		2,435 (5,369.1)		292 (642.9)					1,238.1 (2,730.0)	958.3 (2,113.1)	2,196.4 (4,843.1)
	MEX	2WD		2,262 (4,986.7)		465 (1,025.3)					1,133.4 (2,499.2)	908.6 (2,003.5)	2,042.0 (4,502.6)
	USA	2WD	PROX	2,285 (5,038.1)		442 (973.9)					1,128.1 (2,487.5)	918.1 (2,024.4)	2,046.2 (4,511.9)
	USA	4WD	PRO4X	2,375 (5,235.3)		352 (776.7)					1,208.7 (2,665.2)	927.0 (2,044.0)	2,135.7 (4,709.2)
	CAN			2,438 (5,375.1)		289 (636.9)					1,212.9 (2,674.4)	986.2 (2,174.6)	2,199.1 (4,849.0)
	MEX			2,398 (5,286.7)		329 (725.3)					1,211.1 (2,670.5)	947.9 (2,090.1)	2,159.0 (4,760.6)

*1: Wheelbase for all model grades is STD: 3,200 mm (125.9 in) / LWB: 3,550 mm (139.7 in).

*2: Load rating representing maximum allowable weight of people and cargo after ARC Weight and options are applied.

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

*4: 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 — 2023 Model Year (late production)

The maximum UVW / ARC values are shown below.

Model				UVW Kg (lbs)	GVWR Kg (lbs)	UVW Payload Kg (lbs) *2	ARC Weight Kg (lbs) *3	Max Cargo Kg (lbs) *4	GAWR Kg (lbs)		Base Curb Weight Kg (lbs)		
Engine	Market	Drive	Model Grade *1						Front	Rear	Front	Rear	Total
VQ38DD (3.8L)	USA	2WD	S	2,169 (4,781.0)	2,727 (6,013)	558 (1,231.1)	130 (285.0)	Refer to "Max C"	1,495 (3,296)	1,558 (3,435)	1,130.6 (2,493.0)	908.0 (2,002.1)	2,038.6 (4,495.1)
		4WD		2,350 (5,181.7)		377 (830.3)	239 (525.0)				1,203.6 (2,654.0)	907.7 (2,001.5)	2,111.4 (4,655.6)
	USA	2WD	SV	2,157 (4,756.3)		570 (1,255.7)	130 (285.0)				1,124.3 (2,479.1)	903.1 (1,991.3)	2,027.4 (4,470.4)
		2WD (LWB)		2,242 (4,942.1)		485 (1,069.9)					1,163.2 (2,564.9)	948.5 (2,091.4)	2,111.7 (4,656.3)
		4WD		2,341 (5,161.6)		386 (850.4)	239 (525.0)				1,199.8 (2,645.6)	902.4 (1,989.8)	2,102.3 (4,635.6)
		4WD (LWB)		2,441 (5,382.4)		286 (629.6)					1,248.9 (2,753.8)	953.5 (2,102.5)	2,202.4 (4,856.3)
	CAN	4WD (LWB)		2,445 (5,390.6)		282 (621.4)					1,250.7 (2,757.8)	955.4 (2,106.7)	2,206.1 (4,864.5)
	MEX	2WD		2,275 (5,014.7)		452 (997.3)	130 (285.0)				1,130.7 (2,493.2)	904.9 (1,995.3)	2,035.6 (4,488.5)
	USA	2WD		PROX		2,187 (4,820.9)					540 (1,191.1)	1,143.4 (2,521.2)	913.3 (2,013.8)
	USA	4WD	PRO4X	2,383 (5,254.7)		344 (757.3)	239 (525.0)				1,222.2 (2,695.0)	922.2 (2,033.5)	2,144.5 (4,728.6)
	CAN			2,447 (5,395.1)		280 (616.9)					1,226.3 (2,704.0)	981.8 (2,164.9)	2,208.2 (4,869.1)
	MEX			2,411 (5,315.3)		316 (696.7)					1,225.3 (2,701.8)	946.6 (2,087.3)	2,172.0 (4,789.3)

*1: Wheelbase for all model grades is STD: 3,200 mm (125.9 in) / LWB: 3,550 mm (139.7 in).

*2: Load rating representing maximum allowable weight of people and cargo after ARC Weight and options are applied.

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

*4: 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 — 2024 Model Year

The maximum UVW / ARC values are shown below.

Model				UVW Kg (lbs)	GVWR Kg (lbs)	UVW Payload Kg (lbs) *2	ARC Weight Kg (lbs) *3	Max Cargo Kg (lbs) *4	GAWR Kg (lbs)		Base Curb Weight Kg (lbs)		
Engine	Market	Drive	Model Grade *1						Front	Rear	Front	Rear	Total
VQ38DD (3.8L)	USA	2WD	S	2,166 (4,775.3)	2,727 (6,012)	561 (1,236.7)	130 (285.0)	Refer to "Max C"	1,495 (3,296)	1,558 (3,501)	1,129.6 (2,490.8)	906.4 (1,998.6)	2,036.0 (4,489.4)
		4WD		2,348 (5,176.0)		379 (836.0)	239 (525.0)				1,202.7 (2,652.0)	906.1 (1,998.0)	2,108.8 (4,649.9)
	USA	2WD	SV	2,161 (4,763.2)		566 (1,248.8)	130 (285.0)				1,125.9 (2,482.6)	904.6 (1,994.6)	2,030.5 (4,477.3)
		2WD (LWB)		2,242 (4,942.6)		485 (1,069.4)					1,163.3 (2,565.1)	948.6 (2,091.7)	2,111.9 (4,656.7)
		4WD		2,345 (5,168.7)		382 (843.3)	239 (525.0)				1,201.6 (2,649.5)	903.9 (1,993.1)	2,105.5 (4,642.6)
		4WD (LWB)		2,442 (5,382.9)		285 (629.1)					1,249.1 (2,754.3)	953.6 (2,102.7)	2,202.6 (4,856.7)
	CAN	4WD (LWB)		2,445 (5,391.3)		282 (620.7)	1,251.0 (2,758.5)				955.5 (2,106.9)	2,206.4 (4,865.1)	
	MEX	2WD		2,278 (5,021.6)		449 (990.5)	130 (285.0)				1,132.3 (2,496.7)	906.4 (1,998.6)	2,038.7 (4,495.3)
	USA	2WD	SL	2,234 (4,924.3)		493 (1,087.7)					1,135.6 (2,504.0)	968.0 (2,134.4)	2,103.6 (4,638.4)
		4WD		2,413 (5,319.1)		314 (692.9)	1,210.4 (2,668.9)				963.3 (2,124.1)	2,173.7 (4,793.0)	
	CAN	4WD (LWB)		2,470 (5,444.6)		257 (567.4)	1,263.4 (2,785.8)				967.3 (2,132.9)	2,230.6 (4,918.5)	
	USA	2WD	PROX	2,187 (4,821.6)		540 (1,190.4)	130 (285.0)				1,143.6 (2,521.6)	913.4 (2,014.0)	2,057.0 (4,535.7)
	USA	4WD	PRO4X	2,384 (5,255.2)		343 (756.8)	239 (525.0)				1,222.4 (2,695.4)	922.3 (2,033.7)	2,144.7 (4,729.1)
	CAN			2,446 (5,393.4)		281 (618.6)					1,226.0 (2,703.3)	981.4 (2,164.0)	2,207.4 (4,867.3)
	MEX			2,411 (5,316.0)		316 (696.0)					1,225.6 (2,702.4)	946.7 (2,087.5)	2,172.3 (4,789.9)

*1: Wheelbase for all model grades is STD: 3,200 mm (125.9 in) / LWB: 3,550 mm (139.7 in).

*2: Load rating representing maximum allowable weight of people and cargo after ARC Weight and options are applied.

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

*4: 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 — Starting 2025 Model Year

The maximum UVW / ARC values are shown below.

Model				UVW Kg (lbs)	GVWR Kg (lbs)	UVW Payload Kg (lbs) *2	ARC Weight Kg (lbs) *3	Max Cargo Kg (lbs) *4	GAWR Kg (lbs)		Base Curb Weight Kg (lbs)		
Engine	Market	Drive	Model Grade *1						Front	Rear	Front	Rear	Total
VQ38DD (3.8L)	USA	2WD	S	2,152 (4,744.2)	2,727 (6,012)	575 (1,267.8)	130 (285.0)	Refer to "Max C"	1,495 (3,296)	1,558 (3,501)	1,123.6 (2,477.5)	898.3 (1,980.8)	2,021.9 (4,458.3)
		4WD		2,334 (5,144.7)		393 (867.3)	239 (525.0)				1,196.6 (2,638.5)	898.0 (1,980.1)	2,094.6 (4,618.6)
	USA	2WD	SV	2,163 (4,767.6)		564 (1,244.4)	130 (285.0)				1,128.0 (2,487.2)	904.5 (1,994.4)	2,032.5 (4,481.7)
		2WD (LWB)		2,192 (4,833.3)		535 (1,178.7)					1,167.0 (2,573.2)	895.3 (1,974.1)	2,062.3 (4,547.4)
		4WD		2,346 (5,172.9)		381 (839.1)	239 (525.0)				1,203.6 (2,653.9)	903.8 (1,992.9)	2,107.4 (4,646.8)
		4WD (LWB)		2,392 (5,273.6)		335 (738.4)					1,252.7 (2,762.2)	900.4 (1,985.4)	2,153.1 (4,747.6)
	CAN	4WD (LWB)	2,397 (5,284.2)	330 (727.8)		239 (525.0)	1,256.6 (2,770.8)				901.3 (1,987.4)	2,157.9 (4,758.2)	
	USA	2WD	SL	2,242 (4,942.6)		485 (1,069.4)	130 (285.0)				1,140.9 (2,515.7)	971.0 (2,141.1)	2,111.9 (4,656.7)
		2WD (LWB)		2,275 (5,014.9)		452 (997.1)					1,181.3 (2,604.8)	963.4 (2,124.3)	2,144.7 (4,729.1)
		4WD		2,426 (5,348.2)		301 (663.8)	239 (525.0)				1,216.6 (2,682.6)	970.3 (2,139.5)	2,186.9 (4,822.1)
		4WD (LWB)		2,475 (5,455.5)		252 (556.5)					1,267.1 (2,794.0)	968.5 (2,135.5)	2,235.6 (4,929.5)
	CAN	4WD (LWB)	2,476 (5,459.0)	251 (553.0)		239 (525.0)	1,267.9 (2,795.7)				969.3 (2,137.3)	2,237.2 (4,933.0)	
	USA	2WD	PROX	2,197 (4,843.4)		530 (1,168.6)	130 (285.0)				1,147.1 (2,529.4)	919.8 (2,028.2)	2,066.9 (4,557.5)
	USA	4WD	PRO4X	2,398 (5,286.0)		329 (726.0)	239 (525.0)				1,227.4 (2,706.4)	931.3 (2,053.5)	2,158.7 (4,759.9)
		4WD (LWB)		2,444 (5,388.3)		283 (623.7)					1,276.5 (2,814.7)	928.6 (2,047.6)	2,205.1 (4,862.2)
	CAN	4WD		2,446 (5,393.4)		281 (618.6)	239 (525.0)				1,223.9 (2,698.7)	983.5 (2,168.6)	2,207.4 (4,867.3)
		4WD (LWB)		2,495 (5,501.4)		232 (510.6)					1,274.1 (2,809.4)	982.3 (2,166.0)	2,256.4 (4,975.4)
	MEX	4WD		2,421 (5,337.4)		306 (674.6)	239 (525.0)				1,228.5 (2,708.8)	953.5 (2,102.5)	2,182.0 (4,811.3)

- *1: Wheelbase for all model grades is STD: 3,200 mm (125.9 in) / LWB: 3,550 mm (139.7 in).
- *2: Load rating representing maximum allowable weight of people and cargo after ARC Weight and options are applied.
- *3: ARC aftermarket equipment Accessory Reserve Capacity for models with standard equipment.
- *4: 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:

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

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**

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

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

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

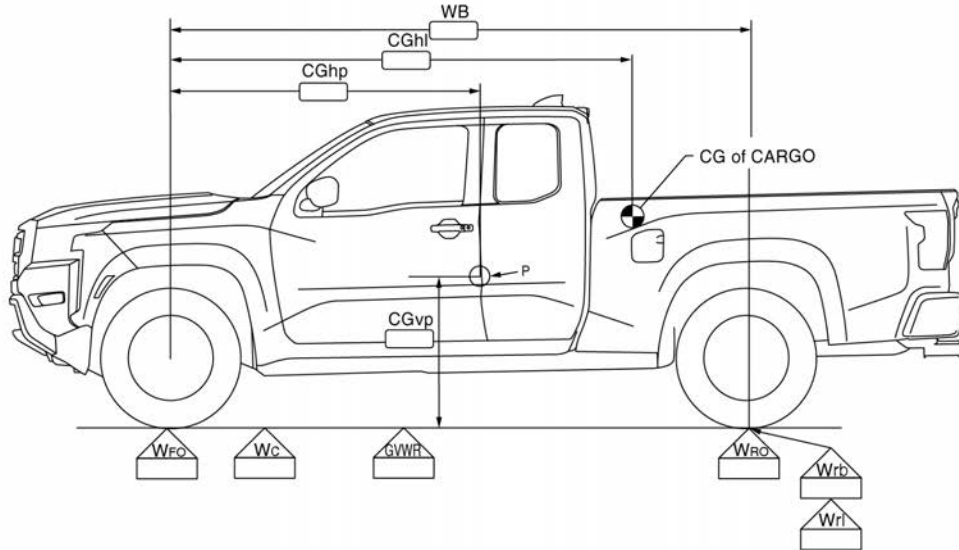
$$(2) \ CG_v = \frac{CG_{vc} W_c + CG_{vb} W_b + CG_{vp} W_p}{W_c + W_b + W_p}$$

AAZIA0183ZZ

CENTER OF GRAVITY (CG) – KING CAB®

Vehicle Center of Gravity Measurement Process

Introduction



TGAZIA0033GB

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) [mm (in)].
CG_{vl}	Vertical distance from the ground to the center of gravity of the cargo [mm (in)].
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.

Term	Definition
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

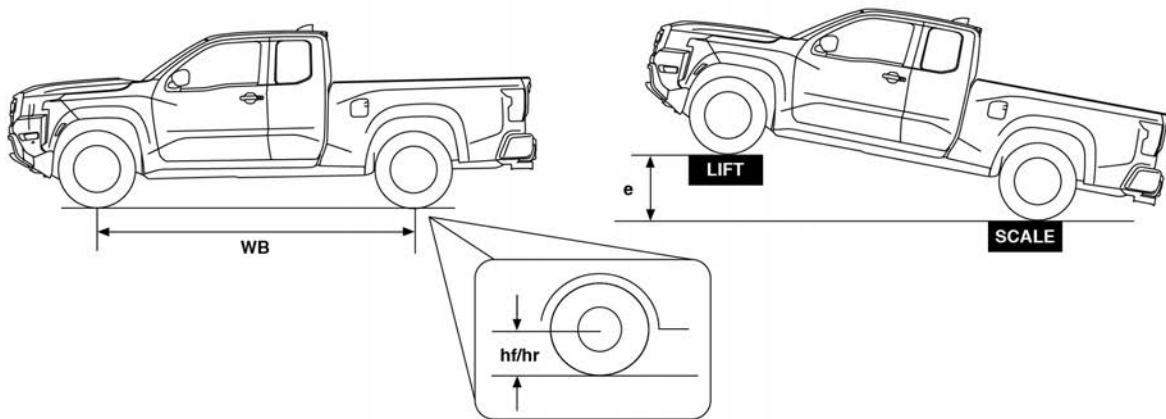
Setup

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 design value.
- Tire: Production parts shall be used. Tire pressure should be set to the specified pressure on Tire Placard 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 23° 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 safety, apply the parking brake.

Measurement Methods

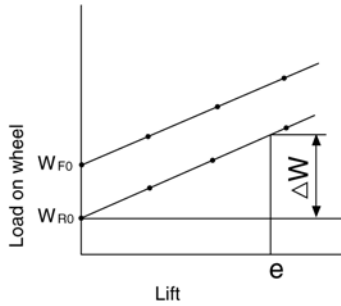
1. The vehicle should be at its unloaded vehicle condition, with full fluids and equipped with spare tire, jack and tools.
2. Measure the wheelbase of the vehicle (WB) on the left-hand and right-hand sides of the vehicle and use the average value for the calculations. Measure the height of the 4 wheel 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 a 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.



TGAZIA0034GB

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.
2. Obtain the shifted load (ΔW_{RO} and ΔW_{FO}) for the lift (e) according to the graph. ΔW_{RO} and ΔW_{FO} with $e = 0.5$ m (1.6 ft.) shall be representative value.
3. Calculate the CG height by using the following equations:



Front wheels raised

$$CG_V = \frac{\Delta W}{W} WB \frac{\sqrt{WB^2 - e^2}}{e} + h_F + \frac{W_{RO}}{W} (h_R - h_F)$$

Rear wheels raised

$$CG_V = \frac{\Delta W}{W} WB \frac{\sqrt{WB^2 - e^2}}{e} + h_R + \frac{W_{FO}}{W} (h_F - h_R)$$

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)

ΔW : shifted load kg (lbs)

WB : Wheelbase m (ft)

h_F : Front wheel center height m (ft)

h_R : 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)

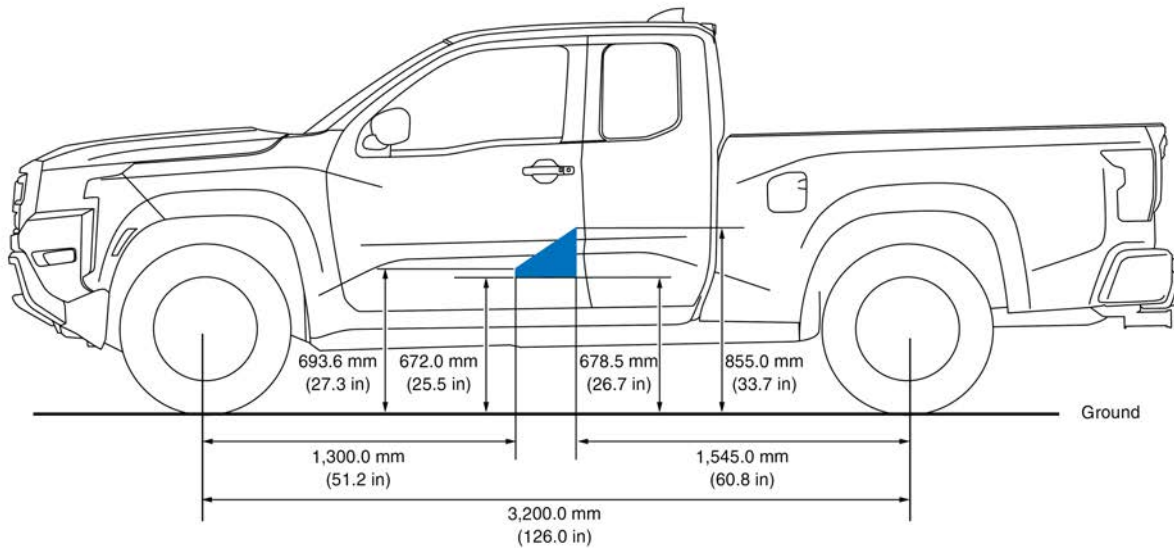
The diagram below shows the vehicle center of gravity envelope.

The center of gravity zone (CG zone) shall not be exceeded by any upfitter package.

NOTE:

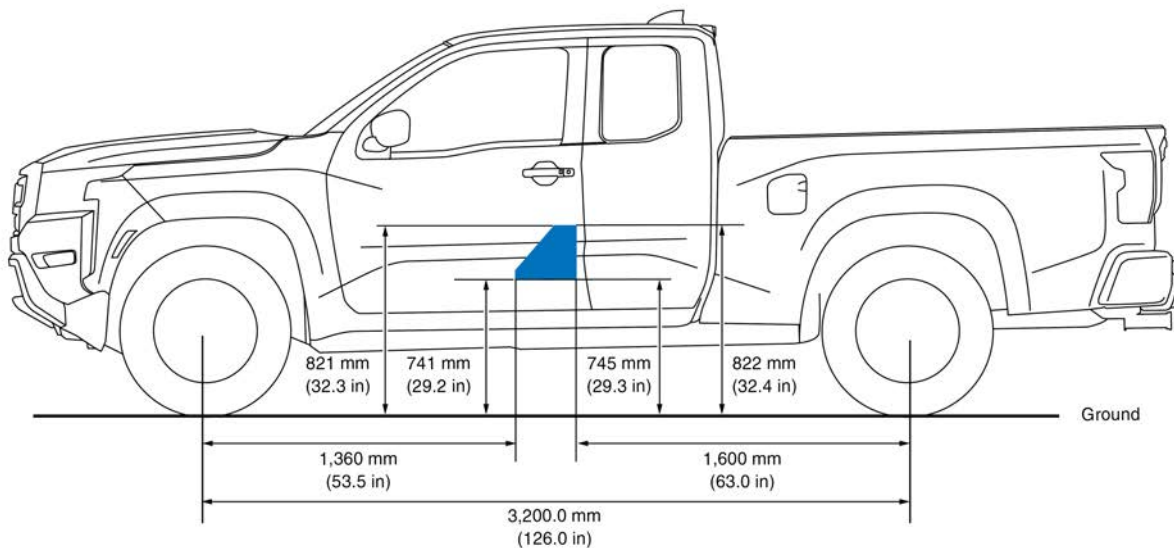
Check battery orientation to identify 2023 model year early or late production, refer to [How to identify Early/Late production \(pg. 81\)](#)

King Cab® 2022 and 2023 early Model Year - 2WD & 4WD / starting with 2023 late 4WD



TGAAZIA0052GB

King Cab® starting with 2023 late 2WD



TGAAZIA0055GB

Maximum Unloaded Vehicle Weight (UVW) Resource Chart — 2022 Model Year

The maximum UVW / ARC values are shown below.

Model				UVW Kg (lbs)	GVWR Kg (lbs)	UVW Payload Kg (lbs) *2	ARC Weight Kg (lbs) *3	Max Cargo Kg (lbs) *4	GAWR Kg (lbs)		Base Curb Weight Kg (lbs)		
Engine	Market	Drive	Model Grade *1						Front	Rear	Front	Rear	Total
VQ38DD (3.8L)	USA	2WD	S	2,207.4 (4,867.3)	2,727 (6,013)	519.6 (1,145.7)	239 (525.0)	Refer to "Max C"	1,495 (3,296)	1,558 (3,435)	1,114.2 (2,456.8)	855.8 (1,887.0)	1,970.0 (4,343.9)
		4WD		2,300.3 (5,072.2)		426.7 (940.9)					1,194.4 (2,633.7)	862.0 (1,900.7)	2,056.4 (4,534.3)
	CAN	2WD		2,208.8 (4,870.4)		518.2 (1,142.6)					1,115.9 (2,460.6)	855.5 (1,886.4)	1,971.4 (4,347.0)
		4WD		2,305.8 (5,084.3)		421.2 (928.7)					1,199.3 (2,644.5)	862.8 (1,902.5)	2,062.1 (4,546.9)
	USA	2WD	SV	2,194.4 (4,838.7)		532.6 (1,174.4)					1,108.6 (2,444.5)	851.3 (1,877.1)	1,959.9 (4,321.6)
		4WD		2,287.4 (5,043.7)		439.6 (969.3)					1,188.9 (2,621.5)	857.6 (1,891.0)	2,046.5 (4,512.5)
	CAN	4WD		2,290.3 (5,050.1)		436.7 (962.9)					1,191.5 (2,627.3)	858.1 (1,892.1)	2,049.6 (4,519.4)
	CAN	4WD	PRO4X	2,320.9 (5,117.6)		406.1 (895.5)					1,206.4 (2,660.1)	875.0 (1,929.4)	2,081.4 (4,589.5)

*1: Wheelbase for all model grades is STD: 3,200 mm (125.9 in).

*2: Load rating representing maximum allowable weight of people and cargo after ARC Weight and options are applied.

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

*4: 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 — 2023 Model Year (early production)

NOTE:

Check battery orientation to identify 2023 model year early or late production, refer to [How to identify Early/Late production \(pg. 81\)](#)

The maximum UVW / ARC values are shown below.

Model				UVW Kg (lbs)	GVWR Kg (lbs)	UVW Payload Kg (lbs) *2	ARC Weight Kg (lbs) *3	Max Cargo Kg (lbs) *4	GAWR Kg (lbs)		Base Curb Weight Kg (lbs)		
Engine	Market	Drive	Model Grade *1						Front	Rear	Front	Rear	Total
VQ38DD (3.8L)	USA	2WD	S	2,209 (4,869.2)	2,727 (6,013)	518 (1,142.8)	239 (525.0)	Refer to "Max C"	1,495 (3,296)	1,558 (3,435)	1,111.6 (2,451.1)	858.0 (1,891.9)	1,969.6 (4,343.0)
		4WD		2,282 (5,030.7)		445 (981.3)					1,184.4 (2,611.6)	858.5 (1,893.0)	2,042.9 (4,504.6)
	CAN	2WD		2,212 (4,877.4)		515 (1,134.7)					1,114.3 (2,457.0)	859.0 (1,894.1)	1,973.3 (4,351.1)
		4WD		2,287 (5,041.7)		440 (970.3)					1,187.8 (2,618.7)	860.1 (1,896.2)	2,047.9 (4,514.8)
	USA	2WD	SV	2,196 (4,841.6)		531 (1,170.4)					1,105.0 (2,436.5)	852.1 (1,878.9)	1,957.1 (4,315.4)
		4WD		2,272 (5,008.2)		455 (1,003.8)					1,180.4 (2,602.8)	852.3 (1,879.3)	2,032.7 (4,482.1)
	CAN	4WD		2,277 (5,019.0)		450 (993.0)					1,184.5 (2,611.8)	853.1 (1,881.1)	2,037.6 (4,492.9)
	CAN	4WD	PRO4X	2,371 (5,226.5)		356 (785.5)					1,200.5 (2,646.7)	931.2 (2,052.9)	2,131.7 (4,699.6)

*1: Wheelbase for all model grades is STD: 3,200 mm (125.9 in).

*2: Load rating representing maximum allowable weight of people and cargo after ARC Weight and options are applied.

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

*4: 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 — 2023 Model Year (late production)

The maximum UVW / ARC values are shown below.

Model				UVW Kg (lbs)	GVWR Kg (lbs)	UVW Payload Kg (lbs) *2	ARC Weight Kg (lbs) *3	Max Cargo Kg (lbs) *4	GAWR Kg (lbs)		Base Curb Weight Kg (lbs)		
Engine	Market	Drive	Model Grade *1						Front	Rear	Front	Rear	Total
VQ38DD (3.8L)	USA	2WD	S	2,110 (4,652.4)	2,727 (6,013)	617 (1,359.6)	130 (285.0)	Refer to "Max C"	1,495 (3,296)	1,558 (3,435)	1,126.4 (2,483.7)	853.9 (1,882.8)	1,980.3 (4,366.6)
		4WD		2,291 (5,050.7)		436 (961.3)	239 (525.0)				1,197.4 (2,640.3)	854.5 (1,884.2)	2,052.0 (4,524.7)
	CAN	2WD		2,223 (4,901.1)		504 (1,110.9)	130 (285.0)				1,129.2 (2,489.9)	854.9 (1,885.1)	1,984.1 (4,374.9)
		4WD		2,296 (5,061.8)		431 (950.2)	239 (525.0)				1,200.8 (2,647.8)	856.1 (1,887.7)	2,057.0 (4,535.7)
	USA	2WD	SV	2,098 (4,624.2)		629 (1,387.8)	130 (285.0)				1,119.7 (2,468.9)	847.8 (1,869.4)	1,967.5 (4,338.3)
		4WD		2,280 (5,027.1)		447 (984.9)	239 (525.0)				1,193.2 (2,631.0)	848 (1,869.8)	2,041.3 (4,501.1)
	CAN	4WD		2,287 (5,041.5)		440 (970.5)					1,197.7 (2,640.9)	850.0 (1,874.3)	2,047.8 (4,515.4)
	CAN	4WD		PRO4X		2,378 (5,242.1)					349 (769.9)	1,212.7 (2,674.0)	926.0 (2,041.8)

*1: Wheelbase for all model grades is STD: 3,200 mm (125.9 in).

*2: Load rating representing maximum allowable weight of people and cargo after ARC Weight and options are applied.

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

*4: 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 — 2024 Model Year

The maximum UVW / ARC values are shown below.

Model				UVW Kg (lbs)	GVWR Kg (lbs)	UVW Payload Kg (lbs) *2	ARC Weight Kg (lbs) *3	Max Cargo Kg (lbs) *4	GAWR Kg (lbs)		Base Curb Weight Kg (lbs)		
Engine	Market	Drive	Model Grade *1						Front	Rear	Front	Rear	Total
VQ38DD (3.8L)	USA	2WD	S	2,110 (4,652.1)	2,727 (6,012)	617 (1,359.9)	130 (285.0)	Refer to "Max C"	1,495 (3,296)	1,558 (3,501)	1,126.1 (2,483.1)	854.0 (1,883.1)	1,980.1 (4,366.1)
		4WD		2,291 (5,050.4)		436 (961.6)	239 (525.0)				1,197.2 (2,639.8)	854.6 (1,884.4)	2,051.8 (4,524.2)
	CAN	2WD		2,114 (4,659.8)		613 (1,352.2)	130 (285.0)				1,128.9 (2,489.2)	855.0 (1,885.3)	1,983.9 (4,374.5)
		4WD		2,296 (5,061.4)		431 (950.6)	239 (525.0)				1,200.6 (2,647.3)	856.2 (1,887.9)	2,056.8 (4,535.2)
	USA	2WD	SV	2,101 (4,631.1)		626 (1,380.9)	130 (285.0)				1,121.3 (2,472.5)	849.3 (1,872.7)	1,970.6 (4,345.1)
		4WD		2,283 (5,034.0)		444 (978.0)	239 (525.0)				1,194.9 (2,634.8)	849.5 (1,873.1)	2,044.4 (4,507.9)
	CAN	4WD		2,290 (5,048.6)		437 (963.4)					1,199.4 (2,644.7)	851.6 (1,877.8)	2,051.0 (4,522.5)
	CAN	4WD	PRO4X	2,378 (5,242.6)		349 (769.4)					1,212.9 (2,674.4)	926.1 (2,042.1)	2,139.0 (4,716.5)

*1: Wheelbase for all model grades is STD: 3,200 mm (125.9 in).

*2: Load rating representing maximum allowable weight of people and cargo after ARC Weight and options are applied.

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

*4: 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 — Starting 2025 Model Year

The maximum UVW / ARC values are shown below.

Model				UVW Kg (lbs)	GVWR Kg (lbs)	UVW Payload Kg (lbs) *2	ARC Weight Kg (lbs) *3	Max Cargo Kg (lbs) *4	GAWR Kg (lbs)		Base Curb Weight Kg (lbs)		
Engine	Market	Drive	Model Grade *1						Front	Rear	Front	Rear	Total
VQ38DD (3.8L)	USA	2WD	S	2,115 (4,662.8)	2,727 (6,012)	612 (1,349.2)	130 (285.0)	Refer to "Max C"	1,495 (3,296)	1,558 (3,501)	1,129.6 (2,490.8)	855.4 (1,886.2)	1,985.0 (4,376.9)
		4WD		2,296 (5,061.1)		431 (950.9)	239 (525.0)				1,200.7 (2,647.5)	856.0 (1,887.5)	2,056.7 (4,535.0)
	CAN	2WD		2,118 (4,669.0)		609 (1,343.0)	130 (285.0)				1,132.0 (2,496.1)	855.8 (1,887.0)	1,987.8 (4,383.1)
		4WD		2,298 (5,067.3)		429 (944.7)	239 (525.0)				1,203.1 (2,652.8)	856.4 (1,888.4)	2,059.5 (4,541.2)
	USA	2WD	SV	2,212 (4,875.8)		515 (1,136.2)	239 (525.0)				1,123.4 (2,477.1)	849.2 (1,872.5)	1,972.6 (4,349.6)
		4WD		2,285 (5,038.4)		442 (973.6)					1,197.0 (2,639.4)	849.4 (1,872.9)	2,046.4 (4,512.3)
	CAN	4WD		2,290 (5,047.9)		437 (964.1)					1,200.5 (2,647.1)	850.2 (1,874.7)	2,050.7 (4,521.8)
	CAN	4WD	PRO4X	2,394 (5,277.0)		333 (735)					1,218.8 (2,687.5)	935.8 (2,063.4)	2,154.6 (4,750.9)

*1: Wheelbase for all model grades is STD: 3,200 mm (125.9 in).

*2: Load rating representing maximum allowable weight of people and cargo after ARC Weight and options are applied.

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

*4: 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:

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

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**

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

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

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

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

AAZIA0183ZZ

FMVSS AND CMVSS REGULATION LIST

Standards

Refer to Federal Motor Vehicle Safety Standards (FMVSS)

Refer to Canadian Motor Vehicle Safety Standards (CMVSS)

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.

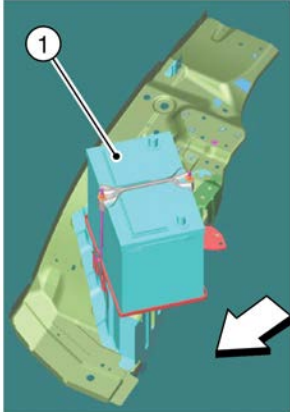
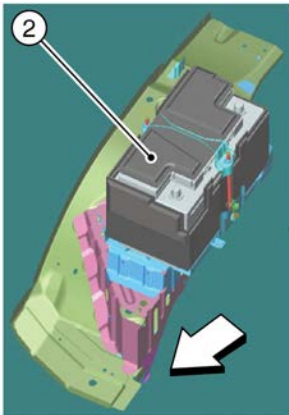
MODEL INFORMATION

2023 MODEL YEAR - HOW TO IDENTIFY EARLY/LATE PRODUCTION

NOTE:

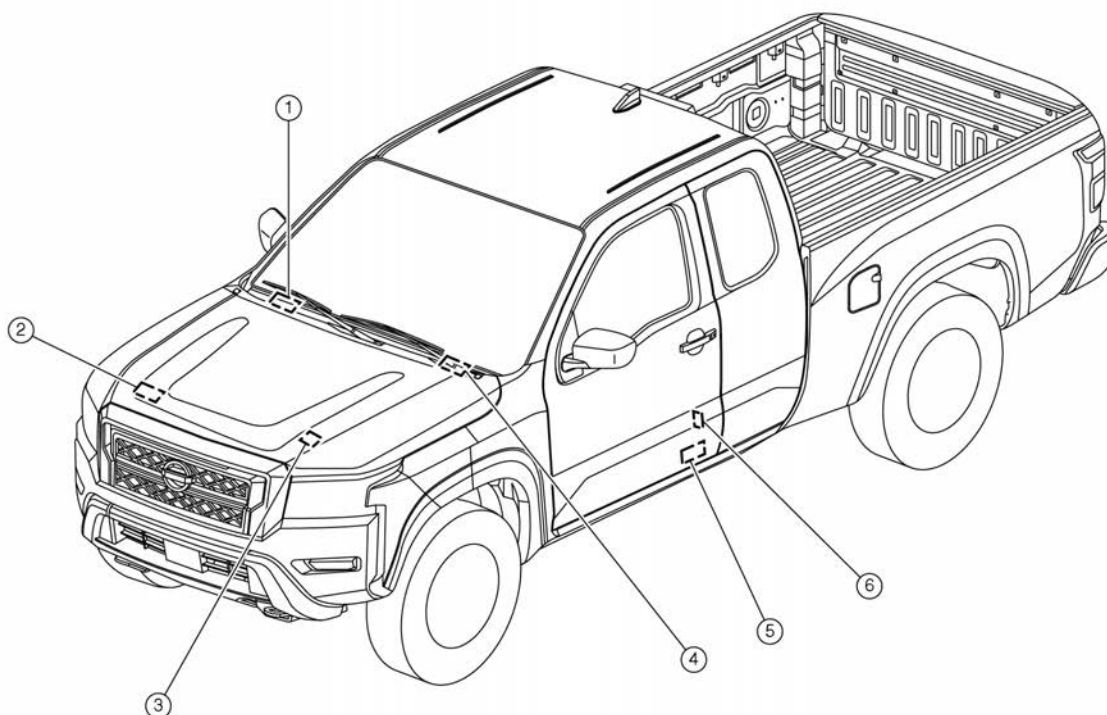
Design changes from year to year may affect capacities and specifications in the BBG. For example, 23MY 2WD vehicles equipped with ISS have new specifications for carrying capacity and Cg height has been reduced. You must consult the correct model year BBG for more information.

For 2023 model year, production was split into early and late builds. Use the following chart to distinguish between early production and late production models. Battery orientation provides easy identification of build timing.

(1) 2023 (early production)	 A 3D cutaway diagram of a vehicle chassis showing the battery pack. The battery is a blue rectangular unit mounted vertically. A callout line with the number '1' points to the top of the battery. A white arrow points to the right, indicating the front of the vehicle.
(2) 2023 (late production)	 A 3D cutaway diagram of a vehicle chassis showing the battery pack. The battery is a grey rectangular unit mounted horizontally. A callout line with the number '2' points to the top of the battery. A white arrow points to the right, indicating the front of the vehicle.

LABEL INFORMATION

Identification Number



TGAZIA0245ZZ

King Cab® shown; Crew cab locations are the same.

- | | | |
|---|--|---------------------------------------|
| 1. Vehicle identification number (chassis number) (on passenger front floor member) | 2. Emission control information label | 3. A/C specification label |
| 4. Vehicle identification number (VIN) plate | 5. Factory applied certification label | 6. Tire and loading information label |

VEHICLE CODING INFORMATION

Vehicle Identification

Vehicle Identification Number Arrangement

Position	Character	Qualifier	Definition
1	1N6	Manufacturer	1N6: Nissan Truck (NNA, Inc.)
2			
3			
4	E	Engine type	E: VQ38DD (3.8L)
5	D1	Vehicle line	D1: D41–Frontier
6			
7	C	Body type	C: King Cab® E: Crew Cab F: Crew Cab (Long Wheelbase)
8	L	Restraint system	L: 2WD, 4 wheel ABS, Class E + Restraint System. 4 Seating Capacity (Driver and Passenger): 3-Point Manual Belts, Frontal Air Bags, Side Air Bags, Curtain Side Air Bags and Knee Air Bags. (2nd Row Outboard): 3-Point Manual Belts and Curtain Side Air Bags.
			M: 4WD, 4 Wheel ABS, Class E + Restraint System. 4 Seating Capacity (Driver and Passenger): 3-Point Manual Belts, Frontal Air Bags, Side Air Bags, Curtain Side Air Bags and Knee Air Bags. (2nd Row Outboard): 3-Point Manual Belts and Curtain Side Air Bags.
			J: 2WD, 4 Wheel ABS, Class E + Restraint System. 5 Seating Capacity (Driver and Passenger): 3-Point Manual Belts, Frontal Air Bags, Side Air Bags, Curtain Side Air Bags and Knee Air Bags. (2nd Row Outboard): 3-Point Manual Belts and Curtain Side Air Bags. (2nd Row Center): 3-Point Manual Belt.
			K: 4WD, 4 Wheel ABS, Class E + Restraint System. 5 Seating Capacity (Driver and Passenger): 3-Point Manual Belts, Frontal Air Bags, Side Air Bags, Curtain Side Air Bags and Knee Air Bags. (2nd Row Outboard): 3-Point Manual Belts and Curtain Side Air Bags. (2nd Row Center): 3-Point Manual Belt.

VEHICLE CODING INFORMATION

[MODEL INFORMATION]

Position	Character	Qualifier	Definition
9	*	Check digit	(0 to 9 or X) The code for the check digit is determined by a mathematical computation.
10	N	Model year	N: 2022 P: 2023 R: 2024 S: 2025
11	N	Manufacturing plant	N: Canton, Mississippi
12	XXXXXX	Vehicle serial number	Chassis number
13			
14			
15			
16			
17			

CLASS

Model Code Arrangement (2022-2023 Model Years)

Position	Character	Qualifier	Definition
1	C	Body type	B: King Cab®
			C: Crew Cab
2	LY	Engine	LY: VQ38DD (3.8L)
4	N	Axle	A: 2WD
			N: 4WD
			G: 2WD LWB
			U: 4WD LWB
5	L	Drive	L: LH
6	B	Grade	A: S Base
			B: SV Base
			C: SV Convenience
			D: Pro-4X Base
			K: Pro-X Base
7	2	Transmission	2: 9A/T
8	D41	Model	D41: Frontier
9			
10			
11	E	Intake	E: Gasoline
12	U	Zone	U: USA
			N: Canada
			J: Mexico
13	A	Equipment	A: Standard
14	XXXXX	Option Codes	Option Codes
15			
16			
17			
18			

Model Variation - 2WD (Engine VQ38DD [3.8L])

Body	Engine	Transmission	Destination	Grade	Model
Crew Cab	VQ38DD (3.8L)	9A/T	USA	S Base	CLYALA2-EUA
				SV Base	CLYALB2-EUA
				SV Convenience	CLYALC2-EUA
				PRO-X	CLYALK2-EUA
				SV LWB	CLYGLB2-EUA
Mexico			SV Base	CLYALB2-EJA	
King Cab®			USA	S Base	BLYALA2-EUA
				SV Base	BLYALB2-EUA
				SV Convenience	BLYALC2-EUA
				Canada	S Base

Model Variation - 4WD (Engine VQ38DD [3.8L])

Body	Engine	Transmission	Destination	Grade	Model		
Crew Cab	VQ38DD (3.8L)	9A/T	USA	S Base	CLYNLA2-EUA		
				SV Base	CLYNLB2-EUA		
				SV Convenience	CLYNLC2-EUA		
				Pro-4X	CLYNLD2-EUA		
				SV LWB	CLYULB2-EUA		
			Canada	PRO-4X	CLYNLD2-ENA		
				SV LWB	CLYULB2-ENA		
Mexico			PRO-4X	CLYNLD2-EJA			
King Cab®			VQ38DD (3.8L)	9A/T	USA	S Base	BLYNLA2-EUA
						SV Base	BLYNLB2-EUA
	SV Convenience	BLYNLC2-EUA					
	Canada	S Base			BLYNLA2-ENA		
		SV Base			BLYNLB2-ENA		
		SV Convenience			BLYNLC2-ENA		
		Pro-4X			BLYNLD2-ENA		

Model Code Arrangement (2024 Model Year)

Position	Character	Qualifier	Definition
1	C	Body type	B: King Cab®
			C: Crew Cab
2	LY	Engine	LY: VQ38DD (3.8L)
4	N	Axle	A: 2WD
			N: 4WD
			G: 2WD LWB
			U: 4WD LWB
5	L	Drive	L: LH
6	B	Grade	A: S Base
			B: SV Base
			C: SV Convenience
			D: Pro-4X Base
			E: SL
			K: Pro-X Base
7	2	Transmission	2: 9A/T
8	D41	Model	D41: Frontier
9			
10			
11	E	Intake	E: Gasoline
12	U	Zone	U: USA
			N: Canada
			J: Mexico
13	A	Equipment	A: Standard
14	XXXXX	Option Codes	Option Codes
15			
16			
17			
18			

Model Variation - 2WD (Engine VQ38DD [3.8L])

Body	Engine	Transmission	Destination	Grade	Model
Crew Cab	VQ38DD (3.8L)	9A/T	USA	S Base	CLYALA2-EUA
				SV Base	CLYALB2-EUA
				SV Convenience	CLYALC2-EUA
				SL	CLYALE2-EUA
				PRO-X	CLYALK2-EUA
				SV LWB	CLYGLB2-EUA
			Mexico	SV Base	CLYALB2-EJA
King Cab®			USA	S Base	BLYALA2-EUA
				SV Base	BLYALB2-EUA
				SV Convenience	BLYALC2-EUA
	Canada	S Base	BLYALA2-ENA		

Model Variation - 4WD (Engine VQ38DD [3.8L])

Body	Engine	Transmission	Destination	Grade	Model
Crew Cab	VQ38DD (3.8L)	9A/T	USA	S Base	CLYNLA2-EUA
				SV Base	CLYNLB2-EUA
				SV Convenience	CLYNLC2-EUA
				SL	CLYNLE2-EUA
				Pro-4X	CLYNLD2-EUA
				SV LWB	CLYULB2-EUA
			Canada	PRO-4X	CLYNLD2-ENA
				SV LWB	CLYULB2-ENA
				SL LWB	CLYULE2-ENA
			Mexico	PRO-4X	CLYNLD2-EJA
King Cab®			USA	S Base	BLYNLA2-EUA
				SV Base	BLYNLB2-EUA
				SV Convenience	BLYNLC2-EUA
			Canada	S Base	BLYNLA2-ENA
				SV Base	BLYNLB2-ENA
				SV Convenience	BLYNLC2-ENA
				Pro-4X	BLYNLD2-ENA

Model Code Arrangement (Starting with 2025 Model Year)

Position	Character	Qualifier	Definition
1	C	Body type	B: King Cab®
			C: Crew Cab
2	LY	Engine	LY: VQ38DD (3.8L)
4	N	Axle	A: 2WD
			N: 4WD
			G: 2WD LWB
			U: 4WD LWB
5	L	Drive	L: LH
6	B	Grade	A: S Base
			B: SV Base
			C: SV Convenience
			D: Pro-4X Base
			E: SL
			K: Pro-X Base
7	2	Transmission	2: 9A/T
8	D41	Model	D41: Frontier
9			
10			
11	E	Intake	E: Gasoline
12	U	Zone	U: USA
			N: Canada
			J: Mexico
13	A	Equipment	A: Standard
14	XXXXX	Option Codes	Option Codes
15			
16			
17			
18			

Model Variation - 2WD (Engine VQ38DD [3.8L])

Body	Engine	Transmission	Destination	Grade	Model
Crew Cab	VQ38DD (3.8L)	9A/T	USA	S Base	CLYALA2-EUA
				SV Base	CLYALB2-EUA
				SV Convenience	CLYALC2-EUA
				SL	CLYALE2-EUA
				PRO-X	CLYALK2-EUA
				SV LWB	CLYGLB2-EUA
				SV Convenience LWB	CLYGLC2-EUA
				SL LWB	CLYGLE2-EUA
King Cab®			USA	S Base	BLYALA2-EUA
				SV Base	BLYALB2-EUA
				SV Convenience	BLYALC2-EUA
	Canada	S Base	BLYALA2-ENA		

Model Variation - 4WD (Engine VQ38DD [3.8L])

Body	Engine	Transmission	Destination	Grade	Model
Crew Cab	VQ38DD (3.8L)	9A/T	USA	S Base	CLYNLA2-EUA
				SV Base	CLYNLB2-EUA
				SV Convenience	CLYNLC2-EUA
				SL	CLYNLE2-EUA
				Pro-4X	CLYNLD2-EUA
				SV LWB	CLYULB2-EUA
				SV Convenience LWB	CLYULC2-EUA
				SL LWB	CLYULE2-EUA
				PRO-4X LWB	CLYULD2-EUA
			Canada	PRO-4X	CLYNLD2-ENA
				SV LWB	CLYULB2-ENA
				SV Convenience LWB	CLYULC2-ENA
				SL LWB	CLYULE2-ENA
				PRO-4X LWB	CLYULD2-ENA
			Mexico	PRO-4X	CLYNLD2-EJA
King Cab®		USA	S Base	BLYNLA2-EUA	
			SV Base	BLYNLB2-EUA	
			SV Convenience	BLYNLC2-EUA	
		Canada	S Base	BLYNLA2-ENA	
			SV Base	BLYNLB2-ENA	
			SV Convenience	BLYNLC2-ENA	
			PRO-4X	BLYNLD2-ENA	

GVWR/TOWING CAPACITY

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

The GVW of the towing vehicle 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, hitch, trailer tongue load 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.

Determining Available Towing Capacity

Towing capacities are calculated assuming a base vehicle with driver and any options, modifications, and additional equipment. Additional passengers, cargo and/or optional equipment, such as the trailer hitch, will add weight to the vehicle and reduce the vehicle's maximum towing capacity and trailer tongue weight.

The vehicle and trailer need to be weighed to confirm the vehicle is within the GVWR, front GAWR, rear GAWR, Gross Combined Weight Rating (GCWR) and towing capacity.

All vehicle and trailer weights can be measured using platform-type scales commonly found at truck stops, highway weigh stations, building supply centers or salvage yards.

To determine the available payload capacity for tongue weight, use the following procedure:

1. Locate the GVWR on the [FMVSS/CMVSS Certification Label](#). (pg. 82)
2. Weigh the vehicle on the scale with all of the passengers and cargo that are normally in the vehicle when towing a trailer.
3. Subtract the actual vehicle weight from the GVWR. The remaining amount is the available maximum tongue weight.

To determine the available towing capacity, use the following procedure:

1. Find the GCWR for the vehicle. Refer to the appropriate Weights chart in the Resource Charts section of this manual:
[RESOURCE CHARTS](#) (pg. 111)
2. Subtract the actual vehicle weight from the GCWR. The remaining amount is the available maximum towing capacity.

To determine the Gross Trailer Weight, weigh the trailer on a scale with all equipment and cargo that are normally in the trailer when it is towed. Make sure the Gross Trailer Weight is not more than the Gross Trailer Weight Rating shown on the trailer and is not more than the calculated available maximum towing capacity.

Also, weigh the front and rear axles on the scale to make sure the Front Gross Axle Weight and Rear Gross Axle Weight are not more than Front Gross Axle Weight and Rear Gross Axle Weight on the FMVSS/CMVSS Certification Label. The cargo in the trailer and vehicle may need to be moved or removed to meet the specified ratings.

Examples:

- Gross Vehicle Weight (GVW) as weighed on a scale - including passengers, cargo and hitch - 3,540 kg (7,804 lbs).
- Gross Vehicle Weight Rating (GVWR) from FMVSS/CMVSS Certification Label - 4,078 kg (8,990 lbs).
- Gross Combined Weight Rating (GCWR) from Resource Chart - 8,822 kg (19,450 lbs).
- Maximum Trailer towing capacity from Resource Chart - 4,173 kg (9,200 lbs).

GVWR - GVW	4,078 kg (8,990 lbs) - 3,540 kg (7,804 lbs)
= Available for tongue weight	= 538 kg (1,186 lbs)
GCWR - GVW	8,822 kg (19,450 lbs) - 3,540 kg (7,804 lbs)
= Capacity available for towing	= 5,282 kg (11,644 lbs)
Available tongue weight ÷ Available capacity	538 kg (1,186 lbs) ÷ 5,282 kg (11,644 lbs)
Tongue weight = 10%	

The available towing capacity may be less than the maximum towing capacity due to the passenger and cargo load in the vehicle.

Remember to keep trailer tongue weight between 10 - 15% of the trailer weight or within the trailer tongue weight specification recommended by the trailer manufacturer. If the tongue weight becomes excessive, rearrange the cargo to obtain the proper tongue weight. Do not exceed the maximum tongue weight specification shown in the Resource Chart, even if the calculated available tongue weight is greater than 15%. If the calculated tongue weight is less than 10%, shift the trailer load forward until the trailer tongue weight reaches 10% of the trailer weight.

Always verify that available capacities are within the required ratings.

TRUCK OPTION MASS — 2022 MODEL YEAR

US Models

OPTION PACKAGE DESCRIPTION	kg (lb)		
	Total	Front	Rear
Technology Package: <ul style="list-style-type: none"> • Lane Departure Warning (LDW) • Blind Spot Warning (BSW) • Rear Cross Traffic Alert (RCTA) • Rear Sonar System • Rear Automatic Braking (RAB) • High Beam Assist (HBA) • Intelligent Cruise Control (ICC) • Traffic Sign Recognition (TSR) [PRO Grades only] 	2.5 (5.51)	1.0 (2.20)	1.5 (3.30)
SV Convenience Package: <ul style="list-style-type: none"> • Spray-in Bedliner • Utili-track® Channel System with 4 Tie Down Cleats • 120V Power Outlet in Bed • 120V Power Outlet in Rear of Center Console • Heated Outside Mirrors • Heated Leather Steering Wheel • Heated Front Seats • Bed Under-rail Lighting • Remote Engine Starter • Leather Shift Lever • Halogen Fog Lights (Front) • Daytime Running lights (Halogen) • HVAC - Dual-zone Front Auto A/C • I-Key w/ Request Switches on Outside Handles (Full-function) • Overhead Console Storage (Sunglass Holder) • Trailer Hitch w/ Wiring Harness 	Crew Cab: 49.9 (110.03) King Cab®: 52.6 (115.98)	Crew Cab: -1.5 (-3.30) King Cab®: -0.4 (-0.88)	Crew Cab: 51.5 (113.56) King Cab®: 53.0 (116.87)
SV Premium Package: <ul style="list-style-type: none"> • LED Fog Lamps (Front) • LED Headlamps • LED Daytime Running Lamps • Auto-Dimming Mirror • Homelink Universal Garage Door Opener • Leather Front and Rear Seats (1st/2nd Rows) • LED Interior Lighting (Map Lights and Room Lamp) • Auto-tilt & Slide Moonroof w/ Manual Shade • Fender® Premium Audio w/10 Speakers (incl. Dual Subwoofer) 	24.6 (54.24)	12.6 (27.78)	12.1 (26.68)

OPTION PACKAGE DESCRIPTION	kg (lb)		
	Total	Front	Rear
PRO Convenience Package: <ul style="list-style-type: none"> Spray-in Bedliner Utili-track® Channel System with 4 Tie Down Cleats 120V Power Outlet in Bed 120V Power Outlet in Rear of Center Console Heated Outside Mirrors Heated Steering Wheel Heated Front Seats Bed Under-rail Lighting Wireless Charging for Personal Devices Remote Engine Starter Trailer Hitch w/ Wiring Harness Intelligent Around View Monitor (I-AVM) w/ Moving Object Detection (MOD) [PRO-X only] Intelligent Around View Monitor (I-AVM) w/ Moving Object Detection (MOD) & Off-Road Mode [PRO-4X only] 	48.0 (105.84)	-4.1 (-9.04)	52.1 (114.88)
PRO Premium Package: <ul style="list-style-type: none"> Leather Front and Rear Seats (1st/2nd Rows) Unique Premium Center Console Stitching Unique Premium Door Trim Homelink Universal Garage Door Opener Auto-Dimming Mirror Fender® Premium Audio w/10 Speakers (incl. Dual Subwoofer) Auto-tilt & Slide Moonroof w/ Manual Shade 17" Accessory Dark Beadlock Style Alloy Wheels 	278 (61.30)	12.0 (26.46)	15.8 (34.84)
Accessory Wheels: <ul style="list-style-type: none"> 17" Accessory Alloy Wheels 	NO WEIGHT IMPACT		
Accessory Remote Starter: <ul style="list-style-type: none"> Remote Engine Starter 	NO WEIGHT IMPACT		

CAN Models

OPTION PACKAGE DESCRIPTION	kg (lb)		
	Total	Front	Rear
Technology Package: <ul style="list-style-type: none"> • Lane Departure Warning (LDW) • Blind Spot Warning (BSW) • Rear Cross Traffic Alert (RCTA) • Rear Sonar System • Rear Automatic Braking (RAB) • High Beam Assist (HBA) • Intelligent Cruise Control (ICC) • Traffic Sign Recognition (TSR) [PRO Grades only]	2.5 (5.51)	1.0 (2.20)	1.5 (3.30)
SV Convenience Package: <ul style="list-style-type: none"> • Spray-in Bedliner • Utili-track® Channel System with 4 Tie Down Cleats • 120V Power Outlet in Bed • 120V Power Outlet in Rear of Center Console • Bed Under-rail Lighting • Leather Shift Lever • I-Key w/ Request Switches on O/S Handles (Full-function) • Overhead Console Storage (Sunglass Holder) • Trailer Hitch w/ Wiring Harness • Remote Engine Starter • Heated Leather Steering Wheel 	50.8 (112.01)	-2.4 (-5.29)	53.2 (117.31)
PRO Convenience Package: <ul style="list-style-type: none"> • Spray-in Bedliner • Utilitrack® Channel System with 4 Tie Down Cleats • 120V Power Outlet in Bed • 120V Power Outlet in Rear of Center Console • Heated Steering Wheel • Bed Under-rail Lighting • Wireless Charging for Personal Devices • Trailer Hitch w/ Wiring Harness • Intelligent Around View Monitor (I-AVM) w/ Moving Object Detection (MOD) & Off-Road Mode • Remote Engine Start 	Crew Cab: 47.7 (105.18) King Cab®: 50.4 (111.13)	Crew Cab: -4.2 (-9.26) King Cab®: -3.1 (-6.84)	Crew Cab: 51.9 (114.44) King Cab®: 53.5 (117.97)

TRUCK OPTION MASS — 2022 MODEL YEAR

[MODEL INFORMATION]

OPTION PACKAGE DESCRIPTION	kg (lb)		
	Total	Front	Rear
PRO Premium Package: <ul style="list-style-type: none"> Leather Front and Rear Seats (1st/2nd Rows) Unique Premium Center Console Stitching Unique Premium Door Trim Unique Premium Dark Grille Fender® Premium Audio w/10 Speakers Homelink Universal Garage Door Opener Auto Dimming Mirror Auto-tilt & Slide Moonroof w/ Manual Shade 	22.2 (48.95)	9.2 (20.29)	13.0 (28.67)
LED Appearance Package: <ul style="list-style-type: none"> LED Fog Lamps (Front) LED Headlamps LED Daytime Running Lamps 	3.0 (6.62)	3.5 (7.72)	-0.5 (-1.10)
Moonroof Package: <ul style="list-style-type: none"> Auto-tilt & Slide Moonroof w/ Manual Shade 	11.9 (26.24)	5.8 (12.79)	6.1 (13.45)
Accessory Wheels: <ul style="list-style-type: none"> 17" Accessory Alloy Wheels 	NO WEIGHT IMPACT		

TRUCK OPTION MASS — 2023 MODEL YEAR

US Models

OPTION PACKAGE DESCRIPTION	kg (lb)		
	Total	Front	Rear
Technology Package: <ul style="list-style-type: none"> • Lane Departure Warning (LDW) • Blind Spot Warning (BSW) • Rear Cross Traffic Alert (RCTA) • Rear Sonar System • Rear Automatic Braking (RAB) • High Beam Assist (HBA) • Intelligent Cruise Control (ICC) • Traffic Sign Recognition (TSR) [PRO Grades only] 	2.5 (5.5)	1.0 (2.2)	1.5 (3.3)
SV Convenience Package: <ul style="list-style-type: none"> • Spray-in Bedliner • Utili-track® Channel System with 2 Tie Down Cleats • 120V Power Outlet in Bed • 120V Power Outlet in Rear of Center Console • Heated Outside Mirrors • Heated Leather Steering Wheel • Heated Front Seats • Bed Under-rail Lighting • Remote Engine Starter • Leather Shift Lever • Halogen Fog Lamps (Front) • Daytime Running Lamps (Halogen) • HVAC - Dual-zone Front Auto A/C • I-Key w/ Request Switches on Outside Handles (Full-function) • Overhead Console Storage (Sunglass Holder) • Trailer Hitch w/ Wiring Harness • Sliding Rear Window • Tow/Haul Mode Switch • Illuminated Locking Glove Box with Damper 	Crew Cab: 52.7 (116.2) King Cab®: 55.2 (121.7)	Crew Cab: -0.6 (-1.3) King Cab®: 0.4 (0.9)	Crew Cab: 53.2 (117.3) King Cab®: 54.7 (120.6)

OPTION PACKAGE DESCRIPTION	kg (lb)		
	Total	Front	Rear
SV Premium Package: <ul style="list-style-type: none"> • LED Fog Lamps (Front) • LED Headlamps • LED Daytime Running Lamps • Auto-Dimming Mirror • Homelink Universal Garage Door Opener • Leather Front and Rear Seats (1st/2nd Rows) • LED Interior Lighting (Map Lamps and Room Lamp) • Auto-tilt & Slide Moonroof w/ Manual Shade • Fender® Premium Audio w/10 Speakers (incl. Dual Subwoofer) • DELETE - Partial Under-seat Storage 	27.6 (60.9)	16.3 (35.9)	11.2 (24.9)
PRO Convenience Package: <ul style="list-style-type: none"> • Spray-in Bedliner • Utili-track® Channel System with 2 Tie Down Cleats • 120V Power Outlet in Bed • 120V Power Outlet in Rear of Center Console • Heated Outside Mirrors • Heated Steering Wheel • Heated Front Seats • Bed Under-rail Lighting • Wireless Charging for Personal Devices • Remote Engine Starter • Trailer Hitch w/ Wiring Harness • Intelligent Around View Monitor (I-AVM) w/ Moving Object Detection (MOD) [PRO-X only] • Intelligent Around View Monitor (I-AVM) w/ Moving Object Detection (MOD) & Off-Road Mode [PRO-4X only] 	48.8 (107.6)	-3.6 (-7.9)	52.3 (115.3)

OPTION PACKAGE DESCRIPTION	kg (lb)		
	Total	Front	Rear
PRO Premium Package: <ul style="list-style-type: none"> Leather Front and Rear Seats (1st/2nd Rows) Unique Premium Center Console Stitching Unique Premium Door Trim Homelink Universal Garage Door Opener Auto-Dimming Mirror Fender® Premium Audio w/10 Speakers (incl. Dual Subwoofer) DELETE - Partial Under-seat Storage Auto-tilt & Slide Moonroof w/ Manual Shade 17" Accessory Dark Beadlock Style Alloy Wheels 	30.0 (66.2)	14.3 (31.5)	15.7 (34.6)
Midnight Edition: <ul style="list-style-type: none"> LED Fog Lamps (Front) LED Headlamps LED Daytime Running Lamps 17" Black Painted Alloy Wheels Black Outside Mirrors, Lower Fascia, and Grille Black exterior badging (Name, Grade, Midnight Badge) 	4.5 (9.9)	5.3 (11.7)	-0.8 (-1.8)
Fender Audio Package: <ul style="list-style-type: none"> Fender® Premium Audio w/10 Speakers (incl. Dual Subwoofer) DELETE - Partial Under-seat Storage 	7.6 (16.8)	3.3 (7.3)	4.3 (9.5)
Accessory Wheels: <ul style="list-style-type: none"> 17" Accessory Alloy Wheels 	NO WEIGHT IMPACT		
Accessory Remote Starter: <ul style="list-style-type: none"> Remote Engine Starter 	NO WEIGHT IMPACT		

CAN Models

OPTION PACKAGE DESCRIPTION	kg (lb)		
	Total	Front	Rear
Technology Package: <ul style="list-style-type: none"> • Lane Departure Warning (LDW) • Blind Spot Warning (BSW) • Rear Cross Traffic Alert (RCTA) • Rear Sonar System • Rear Automatic Braking (RAB) • High Beam Assist (HBA) • Intelligent Cruise Control (ICC) • Traffic Sign Recognition (TSR) [PRO Grades only] 	2.5 (5.5)	1.0 (2.2)	1.5 (3.3)
SV Convenience Package: <ul style="list-style-type: none"> • Spray-in Bedliner • Utili-track® Channel System with 2 Tie Down Cleats • 120V Power Outlet in Bed • 120V Power Outlet in Rear of Center Console • Bed Under-rail Lighting • Leather Shift Lever • I-Key w/ Request Switches on O/S Handles (Full-function) • Overhead Console Storage (Sunglass Holder) • Trailer Hitch w/ Wiring Harness • Sliding Rear Window • Illuminated Locking Glove Box with Damper 	King Cab®: 51.7 (114.0)	King Cab®: -2.9 (-6.4)	King Cab®: 54.5 (120.2)
PRO Convenience Package: <ul style="list-style-type: none"> • Spray-in Bedliner • Utilitrack® Channel System with 2 Tie Down Cleats • 120V Power Outlet in Bed • 120V Power Outlet in Rear of Center Console • Heated Steering Wheel • Bed Under-rail Lighting • Wireless Charging for Personal Devices • Trailer Hitch w/ Wiring Harness • Intelligent Around View Monitor (I-AVM) w/ Moving Object Detection (MOD) & Off-Road Mode • Remote Engine Start 	Crew Cab: 48.5 (107.0) King Cab®: 51.2 (112.9)	Crew Cab: -3.7 (8.2) King Cab®: -2.6 (-5.7)	Crew Cab: 52.2 (115.1) King Cab®: 53.8 (118.6)

TRUCK OPTION MASS — 2023 MODEL YEAR

[MODEL INFORMATION]

OPTION PACKAGE DESCRIPTION	kg (lb)		
	Total	Front	Rear
SV Premium Package: <ul style="list-style-type: none"> • LED Fog Lamps (Front) • LED Headlamps • LED Daytime Running Lamps • Homelink Universal Garage Door Opener • Auto Dimming Mirror • Leather Front and Rear Seats (1st/2nd Rows) • LED Interior Lighting (Map Lamps and Room Lamp) • Auto-tilt & Slide Moonroof w/ Manual Shade • Fender® Premium Audio w/10 Speakers (incl. Dual Subwoofer) • DELETE - Partial Under-seat Storage 	Crew Cab (LWB): 15.7 (34.6)	Crew Cab (LWB): 10.5 (23.2)	Crew Cab (LWB): 5.1 (11.2)
PRO Premium Package: <ul style="list-style-type: none"> • Leather Front and Rear Seats (1st/2nd Rows) • Fender® Premium Audio w/10 Speakers • DELETE — Partial Under-seat Storage • Homelink Universal Garage Door Opener • Auto Dimming Mirror • Auto-tilt & Slide Moonroof w/ Manual Shade 	Crew Cab: 24.1 (53.1)	Crew Cab: 11.3 (24.9)	Crew Cab: 12.8 (28.2)
Midnight Edition: <ul style="list-style-type: none"> • LED Fog Lamps (Front) • LED Headlamps • LED Daytime Running Lamps • 17" Black Painted Alloy Wheels • Black Outside Mirrors, Lower Fascia, and Grille • Black exterior badging (Name, Grade, Midnight Badge) 	Crew Cab (LWB): 4.5 (9.9)	Crew Cab (LWB): 5.3 (11.7)	Crew Cab (LWB): -0.8 (-1.8)
Fender Audio Package: <ul style="list-style-type: none"> • Fender® Premium Audio w/10 Speakers (incl. Dual Subwoofer) • DELETE - Partial Under-seat Storage 	7.6 (16.8)	3.3 (7.3)	4.3 (9.5)
Moonroof Package: <ul style="list-style-type: none"> • Auto-tilt & Slide Moonroof w/ Manual Shade 	11.9 (26.2)	5.8 (12.8)	6.1 (13.5)
Accessory Wheels: <ul style="list-style-type: none"> • 17" Accessory Alloy Wheels 	NO WEIGHT IMPACT		

TRUCK OPTION MASS — 2024 MODEL YEAR

US Models

OPTION PACKAGE DESCRIPTION	kg (lb)		
	Total	Front	Rear
Technology Package: <ul style="list-style-type: none"> • Lane Departure Warning (LDW) • Blind Spot Warning (BSW) • Rear Cross Traffic Alert (RCTA) • Rear Sonar System • Rear Automatic Braking (RAB) • High Beam Assist (HBA) • Intelligent Cruise Control (ICC) • Traffic Sign Recognition (TSR) [PRO Grades only] 	2.5 (5.5)	1.0 (2.2)	1.5 (3.3)
SV Convenience Package: <ul style="list-style-type: none"> • Spray-in Bedliner • Utili-track® Channel System with 2 Tie Down Cleats • 17" Alloy Wheel/Tire Package • 120V Power Outlet in Bed • 120V Power Outlet in Rear of Center Console • Heated Outside Mirrors • Heated Leather Steering Wheel • Heated Front Seats • Bed Under-rail Lighting • Remote Engine Starter • Leather Shift Lever • Halogen Fog Lamps (Front) • Daytime Running Lamps (Halogen) • HVAC - Dual-zone Front Auto A/C • I-Key w/ Request Switches on Outside Handles (Full-function) • Overhead Console Storage (Sunglass Holder) • Trailer Hitch w/ Wiring Harness • Sliding Rear Window • Tow/Haul Mode Switch • Illuminated Locking Glove Box with Damper 	Crew Cab: 49.8 (109.8) King Cab®: 52.3 (115.3)	Crew Cab: -2.1 (-4.6) King Cab®: -1.0 (-2.2)	Crew Cab: 51.7 (114.0) King Cab®: 53.3 (117.5)
S Utility Package: <ul style="list-style-type: none"> • Spray-in Bedliner • 120V Power Outlet in Bed + Rear of Center Console 	Crew Cab: 19.1 (42.1) King Cab®: 20.7 (45.6)	Crew Cab: 2.6 (5.7) King Cab®: 3.3 (7.3)	Crew Cab: 16.5 (36.4) King Cab®: 17.4 (38.4)

OPTION PACKAGE DESCRIPTION	kg (lb)		
	Total	Front	Rear
PRO Convenience Package: <ul style="list-style-type: none"> ▪ Spray-in Bedliner ▪ Utili-track® Channel System with 2 Tie Down Cleats ▪ 120V Power Outlet in Bed ▪ 120V Power Outlet in Rear of Center Console ▪ Heated Outside Mirrors ▪ Heated Steering Wheel ▪ Heated Front Seats ▪ Bed Under-rail Lighting ▪ Wireless Charging for Personal Devices ▪ Remote Engine Starter ▪ Trailer Hitch w/ Wiring Harness ▪ Intelligent Around View Monitor (I-AVM) w/ Moving Object Detection (MOD) [PRO-X only] ▪ Intelligent Around View Monitor (I-AVM) w/ Moving Object Detection (MOD) & Off-Road Mode [PRO-4X only] 	48.8 (107.6)	-3.6 (-7.9)	52.3 (115.3)
PRO Premium Package: <ul style="list-style-type: none"> ▪ Leather Front and Rear Seats (1st/2nd Rows) ▪ Unique Premium Center Console Stitching ▪ Unique Premium Door Trim ▪ Homelink Universal Garage Door Opener ▪ Auto-Dimming Mirror ▪ Fender® Premium Audio w/10 Speakers (incl. Dual Subwoofer) ▪ DELETE - Partial Under-seat Storage ▪ Auto-tilt & Slide Moonroof w/ Manual Shade ▪ 17" Accessory Dark Beadlock Style Alloy Wheels 	30.0 (66.2)	14.3 (31.5)	15.7 (34.6)

TRUCK OPTION MASS — 2024 MODEL YEAR

[MODEL INFORMATION]

OPTION PACKAGE DESCRIPTION	kg (lb)		
	Total	Front	Rear
Hardbody Edition: <ul style="list-style-type: none"> 17" Heritage Alloy Wheels w/ All-Terrain Tires Fender Flares (Over-fenders) Aluminum Skid Plate Black Front & Rear Bumpers Black Outside Mirrors, Lower Fascia, and Grille Side Rail w/o Steps Exhaust Finisher Sport Bar Black Exterior Decals Mud Flaps 	56.1 (123.7)	32.3 (71.2)	12.6 (27.8)
Fender Audio Package: <ul style="list-style-type: none"> Fender® Premium Audio w/10 Speakers (incl. Dual Subwoofer) DELETE - Partial Under-seat Storage 	7.6 (16.8)	3.3 (7.3)	4.3 (9.5)
Accessory Remote Starter: <ul style="list-style-type: none"> Remote Engine Starter 	NO WEIGHT IMPACT		

CAN Models

OPTION PACKAGE DESCRIPTION	kg (lb)		
	Total	Front	Rear
Technology Package: <ul style="list-style-type: none"> • Lane Departure Warning (LDW) • Blind Spot Warning (BSW) • Rear Cross Traffic Alert (RCTA) • Rear Sonar System • Rear Automatic Braking (RAB) • High Beam Assist (HBA) • Intelligent Cruise Control (ICC) • Traffic Sign Recognition (TSR) [PRO Grades only]	2.5 (5.5)	1.0 (2.2)	1.5 (3.3)
SV Convenience Package: <ul style="list-style-type: none"> • Spray-in Bedliner • Utili-track® Channel System with 2 Tie Down Cleats • 17" Alloy Wheel/Tire Package • 120V Power Outlet in Bed • 120V Power Outlet in Rear of Center Console • Bed Under-rail Lighting • Leather Shift Lever • I-Key w/ Request Switches on O/S Handles (Full-function) • Overhead Console Storage (Sunglass Holder) • Trailer Hitch w/ Wiring Harness • Sliding Rear Window • Illuminated Locking Glove Box with Damper 	King Cab®: 48.8 (107.6)	King Cab®: -4.3 (-9.5)	King Cab®: 53.1 (117.1)
PRO Convenience Package: <ul style="list-style-type: none"> • Spray-in Bedliner • Utilitrack® Channel System with 2 Tie Down Cleats • 120V Power Outlet in Bed • 120V Power Outlet in Rear of Center Console • Heated Steering Wheel • Bed Under-rail Lighting • Wireless Charging for Personal Devices • Trailer Hitch w/ Wiring Harness • Intelligent Around View Monitor (I-AVM) w/ Moving Object Detection (MOD) & Off-Road Mode • Remote Engine Start 	Crew Cab: 48.5 (107.0) King Cab®: 51.2 (112.9)	Crew Cab: -3.7 (8.2) King Cab®: -2.6 (-5.7)	Crew Cab: 52.2 (115.1) King Cab®: 53.8 (118.6)

TRUCK OPTION MASS — 2024 MODEL YEAR

[MODEL INFORMATION]

OPTION PACKAGE DESCRIPTION	kg (lb)		
	Total	Front	Rear
Hardbody Edition: <ul style="list-style-type: none"> 17" Heritage Alloy Wheels w/ All-Terrain Tires Fender Flares (Over-fenders) Aluminum Skid Plate Black Front & Rear Bumpers Black Outside Mirrors, Lower Fascia, Handle, and Grille Side Rail w/o Steps Exhaust Finisher Sport Bar Black Exterior Decals Mud Flaps 	Crew Cab (LWB): 56.1 (123.7)	Crew Cab (LWB): 32.3 (71.2)	Crew Cab (LWB): 12.6 (27.8)
PRO Premium Package: <ul style="list-style-type: none"> Leather Front and Rear Seats (1st/2nd Rows) Fender® Premium Audio w/10 Speakers DELETE — Partial Under-seat Storage Homelink Universal Garage Door Opener Auto Dimming Mirror Auto-tilt & Slide Moonroof w/ Manual Shade 	Crew Cab: 24.1 (53.1)	Crew Cab: 11.3 (24.9)	Crew Cab: 12.8 (28.2)
S Utility Package: <ul style="list-style-type: none"> Spray-in Bedliner 120V Power Outlet in Bed + Rear of Center Console 	King Cab®: 20.7 (45.6)	King Cab®: 3.3 (7.3)	King Cab®: 17.4 (38.4)
Fender Audio Package: <ul style="list-style-type: none"> Fender® Premium Audio w/10 Speakers (incl. Dual Subwoofer) DELETE - Partial Under-seat Storage 	7.6 (16.8)	3.3 (7.3)	4.3 (9.5)
Moonroof Package: <ul style="list-style-type: none"> Auto-tilt & Slide Moonroof w/ Manual Shade 	11.9 (26.2)	5.8 (12.8)	6.1 (13.5)
Accessory Wheels: <ul style="list-style-type: none"> 17" Accessory Alloy Wheels 	NO WEIGHT IMPACT		

TRUCK OPTION MASS — 2025 MODEL YEAR

US Models

OPTION PACKAGE DESCRIPTION	kg (lb)		
	Total	Front	Rear
SV Convenience Package: <ul style="list-style-type: none"> Spray-in Bedliner Utili-track® Channel System with 2 Tie Down Cleats 120V Power Outlet in Bed 120V Power Outlet in Rear of Center Console Heated Outside Mirrors Heated Leather Steering Wheel Heated Front Seats Bed Under-rail Lighting Remote Engine Starter Leather Shift Lever Halogen Fog Lamps (Front) HVAC - Dual-zone Front Auto A/C I-Key w/ Request Switches on Outside Handles (Full-function) Trailer Hitch w/ Wiring Harness Sliding Rear Window Tow/Haul Mode Switch Illuminated Locking Glove Box with Damper 	Crew Cab: 52.5 (115.6) Crew Cab LWB: 55.1 (121.5) King Cab®: 55.0 (121.3)	Crew Cab: -0.7 (-1.6) Crew Cab LWB: 3.1 (6.9) King Cab®: 0.3 (0.7)	Crew Cab: 53.2 (117.2) Crew Cab LWB: 52.0 (114.6) King Cab®: 54.7 (120.6)
S Utility Package: <ul style="list-style-type: none"> Spray-in Bedliner 120V Power Outlet in Bed + Rear of Center Console 	Crew Cab: 19.1 (42.1) King Cab®: 20.7 (45.6)	Crew Cab: 2.6 (5.7) King Cab®: 3.3 (7.3)	Crew Cab: 16.5 (36.4) King Cab®: 17.4 (38.4)
PRO Convenience Package: <ul style="list-style-type: none"> Spray-in Bedliner Utili-track® Channel System with 2 Tie Down Cleats 120V Power Outlet in Bed 120V Power Outlet in Rear of Center Console Heated Outside Mirrors Heated Steering Wheel Heated Front Seats Bed Under-rail Lighting Wireless Charging for Personal Devices Remote Engine Starter Trailer Hitch w/ Wiring Harness Intelligent Around View Monitor (I-AVM) w/ Moving Object Detection (MOD) [PRO-X only] Intelligent Around View Monitor (I-AVM) w/ Moving Object Detection (MOD) & Off-Road Mode [PRO-4X only] 	Crew Cab: 49.1 (108.3) Crew Cab LWB: 51.8 (114.2)	Crew Cab: -3.4 (-7.5) Crew Cab LWB: 0.5 (1.1)	Crew Cab: 52.5 (115.8) Crew Cab LWB: 51.3 (113.1)

TRUCK OPTION MASS — 2025 MODEL YEAR

[MODEL INFORMATION]

OPTION PACKAGE DESCRIPTION	kg (lb)		
	Total	Front	Rear
PRO Premium Package: <ul style="list-style-type: none"> Leather Front and Rear Seats (1st/2nd Rows) Homelink Universal Garage Door Opener Auto-Dimming Mirror Fender® Premium Audio w/10 Speakers (incl. Dual Subwoofer) DELETE - Partial Under-seat Storage Auto-tilt & Slide Moonroof w/ Manual Shade Traffic Sign Recognition (TSR) 	Crew Cab: 21.7 (47.8) Crew Cab LWB: 21.7 (47.8)	Crew Cab: 10.6 (23.4) Crew Cab LWB: 11.2 (24.7)	Crew Cab: 11.1 (24.5) Crew Cab LWB: 10.5 (23.2)
Fender Audio Package: <ul style="list-style-type: none"> Fender® Premium Audio w/10 Speakers (incl. Dual Subwoofer) DELETE - Partial Under-seat Storage 	7.6 (16.8)	3.3 (7.3)	4.3 (9.5)
Accessory Remote Starter: <ul style="list-style-type: none"> Remote Engine Starter 	NO WEIGHT IMPACT		
Two-Tone Beadlock Style Wheel: <ul style="list-style-type: none"> 17" Two-Tone Beadlock Style Wheel w/ All-Terrain Tires 	5.4 (11.9)	2.7 (6.0)	2.7 (6.0)

CAN Models

OPTION PACKAGE DESCRIPTION	kg (lb)		
	Total	Front	Rear
SV Convenience Package: <ul style="list-style-type: none"> Spray-in Bedliner Utili-track® Channel System with 2 Tie Down Cleats 120V Power Outlet in Bed 120V Power Outlet in Rear of Center Console Bed Under-rail Lighting Leather Shift Lever I-Key w/ Request Switches on O/S Handles (Full-function) Trailer Hitch w/ Wiring Harness Sliding Rear Window Illuminated Locking Glove Box with Damper 	King Cab®: 51.2 (112.9) Crew Cab LWB: 51.3 (113.1)	King Cab®: -3.1 (6.9) Crew Cab LWB: -0.3 (-0.7)	King Cab®: 54.4 (119.9) Crew Cab LWB: 51.6 (113.9)
PRO Convenience Package: <ul style="list-style-type: none"> Spray-in Bedliner Utilitrack® Channel System with 2 Tie Down Cleats 120V Power Outlet in Bed 120V Power Outlet in Rear of Center Console Heated Steering Wheel Bed Under-rail Lighting Wireless Charging for Personal Devices Trailer Hitch w/ Wiring Harness Intelligent Around View Monitor (I-AVM) w/ Moving Object Detection (MOD) & Off-Road Mode Remote Engine Start 	Crew Cab: 48.5 (106.9) King Cab®: 51.2 (112.9) Crew Cab LWB: 51.2 (112.9)	Crew Cab: -3.7 (-8.2) King Cab®: -2.6 (-5.7) Crew Cab LWB: 0.1 (0.2)	Crew Cab: 52.2 (115.1) King Cab®: 53.8 (118.6) Crew Cab LWB: 51.1 (112.7)
PRO Premium Package: <ul style="list-style-type: none"> Leather Front and Rear Seats (1st/2nd Rows) Fender® Premium Audio w/10 Speakers DELETE — Partial Under-seat Storage Homelink Universal Garage Door Opener Auto Dimming Mirror Auto-tilt & Slide Moonroof w/ Manual Shade 	Crew Cab: 21.7 (47.8) Crew Cab LWB: 21.7 (47.8)	Crew Cab: 10.3 (22.7) Crew Cab LWB: 12.3 (27.1)	Crew Cab: 11.5 (25.4) Crew Cab LWB: 9.4 (20.7)
S Utility Package: <ul style="list-style-type: none"> Spray-in Bedliner 120V Power Outlet in Bed + Rear of Center Console 	King Cab®: 20.7 (45.6)	King Cab®: 3.3 (7.3)	King Cab®: 17.4 (38.4)

TRUCK OPTION MASS — 2025 MODEL YEAR

[MODEL INFORMATION]

OPTION PACKAGE DESCRIPTION	kg (lb)		
	Total	Front	Rear
Fender Audio Package: <ul style="list-style-type: none"> Fender® Premium Audio w/10 Speakers (incl. Dual Subwoofer) DELETE - Partial Under-seat Storage 	7.6 (16.8)	3.3 (7.3)	4.3 (9.5)
Two-Tone Beadlock Style Wheels: <ul style="list-style-type: none"> 17" Two-Tone Beadlock Style Wheels w/ All-Terrain Tires 	5.4 (12.0)	2.7 (6.0)	2.7 (6.0)

RESOURCE CHARTS

WEIGHTS — 2WD VEHICLES — 2022 Model Year

NOTE: For Accessory Reserve Capacity (ARC), Center of Gravity (CG) or Unloaded Vehicle Weight (UVW) information, refer to [CENTER OF GRAVITY \(CG\) \(pg. 55\)](#)

Crew Cab

WEIGHTS — 2WD VEHICLES				
Item	Model→	Crew Cab		
	Grade→	S	SV	PRO-X
	Engine→	VQ38DD (3.8L)		
Final Drive Ratio	—	3.692 : 1		
Base Curb Weight - Total	Kg (lbs)	2,028.9 (4,473.7)	2,018.8 (4,451.5) LWB: 2,074.4 (4,574.1)	2,044.9 (4,509.0)
Base Curb Weight - Rear	Kg (lbs)	910.6 (2,007.9)	906.1 (1,998.0) LWB: 914.5 (2,016.5)	914.0 (2,015.4)
Base Curb Weight - Front	Kg (lbs)	1,118.3 (2,465.9)	1,112.7 (2,453.5) LWB: 1,159.9 (2,557.6)	1,130.9 (2,493.6)
Maximum GCWR	Kg (lbs)	5,183 (11,427)		
Maximum GVWR	Kg (lbs)	2,727 (6,013)		
Max. Tires and Load Rating @ 350 kPa (51 psi)	Kg (lbs)	P265/70R16 1,090 (2,403)	—	—
Max. Tires and Load Rating @ 300 kPa (44 psi)	Kg (lbs)	—	P265/65R17 1,120 (2,469)	—
Max. Tires and Load Rating @ 350 kPa (51 psi)	Kg (lbs)	—	—	P265/70R17 1,215 (2,679)
Standard Payload	Kg (lbs)	662.2 (1,460)	671.3 (1,480) LWB: 616.9 (1,360)	648.6 (1,430)
Rear GAWR	Kg (lbs)	1,558 (3,435)		
Front GAWR	Kg (lbs)	1,495 (3,296)		
Bed Wall Side — Maximum Distributed Load	N (lbs)	7,406 (1,665)		

WEIGHTS — 2WD VEHICLES				
Item	Model→	Crew Cab		
	Grade→	S	SV	PRO-X
	Engine→	VQ38DD (3.8L)		
Upper Front Bed Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)		
Upper Side Bed Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)		
Bed Floor Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)		
Cargo Tie Down Pull Strength Practical Load	N (lbs)	1,112 (250)		

King Cab®

WEIGHTS — 2WD VEHICLES			
Item	Model→	King Cab®	
	Grade→	S	SV
	Engine→	VQ38DD (3.8L)	
Final Drive Ratio	—	3.692 : 1	
Base Curb Weight - Total	USA Kg (lbs)	1,970.0 (4,343.9)	1,959.9 (4,321.6)
	Canada Kg (lbs)	1,971.4 (4,347.0)	—
Base Curb Weight - Rear	USA Kg (lbs)	855.8 (1,887.0)	851.3 (1,877.1)
	Canada Kg (lbs)	855.5 (1,886.4)	—
Base Curb Weight - Front	USA Kg (lbs)	1,114.2 (2,456.8)	1,108.6 (2,444.5)
	Canada Kg (lbs)	1,115.9 (2,460.6)	—
Maximum GCWR	Kg (lbs)	5,183 (11,427)	
Maximum GVWR	Kg (lbs)	2,727 (6,013)	
Max. Tires and Load Rating @ 350 kPa (51 psi)	Kg (lbs)	P265/70R16 1,090 (2,403)	—
Max. Tires and Load Rating @ 300 kPa (44 psi)	Kg (lbs)	—	P265/65R17 1,120 (2,469)
Standard Payload	USA Kg (lbs)	725.7 (1,600.0)	730.3 (1,610.0)
	Canada Kg (lbs)	730.6 (1,610.0)	—
Rear GAWR	Kg (lbs)	1,558 (3,435)	
Front GAWR	Kg (lbs)	1,495 (3,296)	
Bed Wall Side — Maximum Distributed Load	N (lbs)	7,406 (1,665)	
Upper Front Bed Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)	
Upper Side Bed Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)	
Bed Floor Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)	
Bed Cargo Tie Down Pull Strength Practical Load	N (lbs)	1,112 (250)	

WEIGHTS — 2WD VEHICLES — 2023 Model Year (early production)

NOTE:

Check battery orientation to identify 2023 model year early or late production, refer to [How to identify Early/Late production \(pg. 81\)](#)

NOTE: For Accessory Reserve Capacity (ARC), Center of Gravity (CG) or Unloaded Vehicle Weight (UVW) information, refer to [CENTER OF GRAVITY \(CG\) \(pg. 55\)](#)

Crew Cab

WEIGHTS — 2WD VEHICLES				
Item	Model→	Crew Cab		
	Grade→	S	SV	PRO-X
	Engine→	VQ38DD (3.8L)		
Final Drive Ratio	—	3.692 : 1		
Base Curb Weight - Total	Kg (lbs)	2,026.8 (4,469.1)	2,016.0 (4,445.3) LWB: 2,103.6 (4,638.4)	2,046.2 (4,511.9)
Base Curb Weight - Rear	Kg (lbs)	911.6 (2,010.1)	906.9 (1,999.7) LWB: 952.6 (2,100.5)	918.1 (2,024.4)
Base Curb Weight - Front	Kg (lbs)	1,115.2 (2,459.0)	1,109.1 (2,445.6) LWB: 1,151.0 (2,538.0)	1,128.1 (2,487.5)
Maximum GCWR	Kg (lbs)	5,183 (11,427)		
Maximum GVWR	Kg (lbs)	2,727 (6,013)		
Max. Tires and Load Rating @ 350 kPa (51 psi)	Kg (lbs)	P265/70R16 1,090 (2,403)	—	—
Max. Tires and Load Rating @ 300 kPa (44 psi)	Kg (lbs)	—	P265/65R17 1,120 (2,469)	—
Max. Tires and Load Rating @ 350 kPa (51 psi)	Kg (lbs)	—	—	P265/70R17 1,215 (2,679)
Standard Payload	Kg (lbs)	671.3 (1,480)	680.4 (1,500) LWB: 607.8 (1,340)	666.8 (1,470)
Rear GAWR	Kg (lbs)	1,558 (3,435)		
Front GAWR	Kg (lbs)	1,495 (3,296)		
Bed Wall Side — Maximum Distributed Load	N (lbs)	7,406 (1,665)		

WEIGHTS — 2WD VEHICLES				
Item	Model→	Crew Cab		
	Grade→	S	SV	PRO-X
	Engine→	VQ38DD (3.8L)		
Upper Front Bed Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)		
Upper Side Bed Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)		
Bed Floor Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)		
Cargo Tie Down Pull Strength Practical Load	N (lbs)	1,112 (250)		

WEIGHTS — 2WD VEHICLES

Item	Model→	King Cab®	
	Grade→	S	SV
	Engine→	VQ38DD (3.8L)	
Final Drive Ratio	—	3.692 : 1	
Base Curb Weight - Total	USA Kg (lbs)	1,969.6 (4,343.0)	1,957.1 (4,315.4)
	Canada Kg (lbs)	1,973.3 (4,351.1)	—
Base Curb Weight - Rear	USA Kg (lbs)	858.0 (1,891.9)	852.1 (1,878.9)
	Canada Kg (lbs)	859.0 (1,894.1)	—
Base Curb Weight - Front	USA Kg (lbs)	1,111.6 (2,451.1)	1,105.0 (2,436.5)
	Canada Kg (lbs)	1,114.3 (2,457.0)	—
Maximum GCWR	Kg (lbs)	5,183 (11,427)	
Maximum GVWR	Kg (lbs)	2,727 (6,013)	
Max. Tires and Load Rating @ 350 kPa (51 psi)	Kg (lbs)	P265/70R16 1,090 (2,403)	—
Max. Tires and Load Rating @ 300 kPa (44 psi)	Kg (lbs)	—	P265/65R17 1,120 (2,469)
Standard Payload	USA Kg (lbs)	730.3 (1,610)	743.9 (1,640)
	Canada Kg (lbs)	730.3 (1,610)	—
Rear GAWR	Kg (lbs)	1,558 (3,435)	
Front GAWR	Kg (lbs)	1,495 (3,296)	
Bed Wall Side — Maximum Distributed Load	N (lbs)	7,406 (1,665)	
Upper Front Bed Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)	
Upper Side Bed Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)	
Bed Floor Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)	
Bed Cargo Tie Down Pull Strength Practical Load	N (lbs)	1,112 (250)	

WEIGHTS — 2WD VEHICLES — 2023 MODEL YEAR (late production)

NOTE:
 Check battery orientation to identify 2023 model year early or late production, refer to [How to identify Early/Late production \(pg. 81\)](#)
NOTE: For Accessory Reserve Capacity (ARC), Center of Gravity (CG) or Unloaded Vehicle Weight (UVW) information, refer to [CENTER OF GRAVITY \(CG\) \(pg. 55\)](#)

Crew Cab

WEIGHTS — 2WD VEHICLES				
Item	Model→	Crew Cab		
	Grade→	S	SV	PRO-X
	Engine→	VQ38DD (3.8L)		
Final Drive Ratio	—	3.692 : 1		
Base Curb Weight - Total	USA Kg (lbs)	2,038.6 (4,495.1)	2,027.4 (4,470.4) LWB: 2,111.7 (4,656.3)	2,056.7 (4,535.0)
	MEX Kg (lbs)	—	2,035.6 (4,488.5)	—
Base Curb Weight - Rear	USA Kg (lbs)	908.0 (2,002.1)	903.1 (1,991.3) LWB: 948.5 (2,091.4)	913.3 (2,013.8)
	MEX Kg (lbs)	—	904.9 (1,995.3)	—
Base Curb Weight - Front	USA Kg (lbs)	1,130.6 (2,493.0)	1,124.3 (2,479.1) LWB: 1,163.2 (2,564.9)	1,143.4 (2,521.2)
	MEX Kg (lbs)	—	1,130.7 (2,493.2)	—
Maximum GCWR	Kg (lbs)	5,183 (11,427)		
Maximum GVWR	Kg (lbs)	2,727 (6,013)		
Max. Tires and Load Rating @ 350 kPa (51 psi)	Kg (lbs)	P265/70R16 1,090 (2,403)	—	—
Max. Tires and Load Rating @ 300 kPa (44 psi)	Kg (lbs)	—	P265/65R17 1,120 (2,469)	—
Max. Tires and Load Rating @ 350 kPa (51 psi)	Kg (lbs)	—	—	P265/70R17 1,215 (2,679)

WEIGHTS — 2WD VEHICLES				
Item	Model→	Crew Cab		
	Grade→	S	SV	PRO-X
	Engine→	VQ38DD (3.8L)		
Standard Payload	USA Kg (lbs)	662.2 (1,460)	671.3 (1,480) LWB: 589.7 (1,300)	648.6 (1,430)
Rear GAWR	Kg (lbs)	1,558 (3,435)		
Front GAWR	Kg (lbs)	1,495 (3,296)		
Bed Wall Side — Maximum Distributed Load	N (lbs)	7,406 (1,665)		
Upper Front Bed Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)		
Upper Side Bed Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)		
Bed Floor Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)		
Cargo Tie Down Pull Strength Practical Load	N (lbs)	1,112 (250)		

King Cab®

WEIGHTS — 2WD VEHICLES			
Item	Model→	King Cab®	
	Grade→	S	SV
	Engine→	VQ38DD (3.8L)	
Final Drive Ratio	—	3.692 : 1	
Base Curb Weight - Total	USA Kg (lbs)	1,980.3 (4,366.6)	1,967.5 (4,338.3)
	Canada Kg (lbs)	1,984.1 (4,374.9)	—
Base Curb Weight - Rear	USA Kg (lbs)	853.9 (1,882.9)	847.8 (1,869.4)
	Canada Kg (lbs)	854.9 (1,885.1)	—
Base Curb Weight - Front	USA Kg (lbs)	1,126.4 (2,483.7)	1,119.7 (2,468.9)
	Canada Kg (lbs)	1,129.2 (2,489.9)	—
Maximum GCWR	Kg (lbs)	5,183 (11,427)	
Maximum GVWR	Kg (lbs)	2,727 (6,013)	
Max. Tires and Load Rating @ 350 kPa (51 psi)	Kg (lbs)	P265/70R16 1,090 (2,403)	—
Max. Tires and Load Rating @ 300 kPa (44 psi)	Kg (lbs)	—	P265/65R17 1,120 (2,469)
Standard Payload	USA Kg (lbs)	721.2 (1,590)	734.8 (1,620)
	Canada Kg (lbs)	721.2 (1,590)	—
Rear GAWR	Kg (lbs)	1,558 (3,435)	
Front GAWR	Kg (lbs)	1,495 (3,296)	
Bed Wall Side — Maximum Distributed Load	N (lbs)	7,406 (1,665)	
Upper Front Bed Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)	
Upper Side Bed Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)	
Bed Floor Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)	
Bed Cargo Tie Down Pull Strength Practical Load	N (lbs)	1,112 (250)	

120 **WEIGHTS — 2WD VEHICLES — 2024 MODEL YEAR**

NOTE:

Check battery orientation to identify 2023 model year early or late production, refer to [How to identify Early/Late production \(pg. 81\)](#)

NOTE: For Accessory Reserve Capacity (ARC), Center of Gravity (CG) or Unloaded Vehicle Weight (UVW) information, refer to [CENTER OF GRAVITY \(CG\) \(pg. 55\)](#)

Crew Cab

WEIGHTS — 2WD VEHICLES					
Item	Model→	Crew Cab			
	Grade→	S	SV	SL	PRO-X
	Engine→	VQ38DD (3.8L)			
Final Drive Ratio	—	3.692 : 1			
Base Curb Weight - Total	USA Kg (lbs)	2,036.0 (4,489.4)	2,030.5 (4,477.3) LWB: 2,111.9 (4,656.7)	2,103.6 (4,638.4)	2,057.0 (4,535.7)
	MEX Kg (lbs)	—	2,038.7 (4,495.3)	—	—
Base Curb Weight - Rear	USA Kg (lbs)	906.4 (1,998.6)	904.6 (1,994.6) LWB: 948.6 (2,091.7)	968.0 (2,134.4)	913.4 (2,014.0)
	MEX Kg (lbs)	—	906.4 (1,998.6)	—	—
Base Curb Weight - Front	USA Kg (lbs)	1,129.6 (2,490.8)	1,125.9 (2,482.6) LWB: 1,163.3 (2,565.1)	1,135.6 (2,504.0)	1,143.6 (2,521.6)
	MEX Kg (lbs)	—	1,132.3 (2,496.7)	—	—
Maximum GCWR	Kg (lbs)	5,183 (11,427)			
Maximum GVWR	Kg (lbs)	2,727 (6,012)			
Max. Tires and Load Rating @ 350 kPa (51 psi)	Kg (lbs)	P265/70R16 1,090 (2,403)	—	—	—
Max. Tires and Load Rating @ 300 kPa (44 psi)	Kg (lbs)	—	P265/65R17 1,120 (2,469)	P265/65R17 1,120 (2,469)	—
Max. Tires and Load Rating @ 350 kPa (51 psi)	Kg (lbs)	—	—	—	P265/70R17 1,215 (2,679)

WEIGHTS — 2WD VEHICLES					
Item	Model→	Crew Cab			
	Grade→	S	SV	SL	PRO-X
	Engine→	VQ38DD (3.8L)			
Standard Payload	USA Kg (lbs)	662.0 (1,460)	671.0 (1,480) LWB: 590.0 (1,300)	590.0 (1,300)	649.0 (1,430)
	MEX Kg (lbs)	—	658.0 (1,450)	—	—
Rear GAWR	Kg (lbs)	1,558 (3,501)			
Front GAWR	Kg (lbs)	1,495 (3,296)			
Bed Wall Side — Maximum Distributed Load	N (lbs)	7,406 (1,665)			
Upper Front Bed Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)			
Upper Side Bed Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)			
Bed Floor Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)			
Cargo Tie Down Pull Strength Practical Load	N (lbs)	1,112 (250)			

WEIGHTS — 2WD VEHICLES

Item	Model→	King Cab®	
	Grade→	S	SV
	Engine→	VQ38DD (3.8L)	
Final Drive Ratio	—	3.692 : 1	
Base Curb Weight - Total	USA Kg (lbs)	1,980.1 (4,366.1)	1,970.6 (4,345.2)
	Canada Kg (lbs)	1,983.9 (4,374.5)	—
Base Curb Weight - Rear	USA Kg (lbs)	854.0 (1,883.0)	849.3 (1,872.7)
	Canada Kg (lbs)	855.0 (1,885.3)	—
Base Curb Weight - Front	USA Kg (lbs)	1,126.1 (2,483.1)	1,121.3 (2,472.5)
	Canada Kg (lbs)	1,128.9 (2,489.2)	—
Maximum GCWR	Kg (lbs)	5,183 (11,427)	
Maximum GVWR	Kg (lbs)	2,727 (6,012)	
Max. Tires and Load Rating @ 350 kPa (51 psi)	Kg (lbs)	P265/70R16 1,090 (2,403)	—
Max. Tires and Load Rating @ 300 kPa (44 psi)	Kg (lbs)	—	P265/65R17 1,120 (2,469)
Standard Payload	USA Kg (lbs)	721 (1,590)	735 (1,620)
	Canada Kg (lbs)	721 (1,590)	—
Rear GAWR	Kg (lbs)	1,558 (3,501)	
Front GAWR	Kg (lbs)	1,495 (3,296)	
Bed Wall Side — Maximum Distributed Load	N (lbs)	7,406 (1,665)	
Upper Front Bed Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)	
Upper Side Bed Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)	
Bed Floor Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)	
Bed Cargo Tie Down Pull Strength Practical Load	N (lbs)	1,112 (250)	

2022-2025 Frontier

WEIGHTS — 2WD VEHICLES — 2025 MODEL YEAR

NOTE:
Check battery orientation to identify 2023 model year early or late production, refer to [How to identify Early/Late production \(pg. 81\)](#)

NOTE: For Accessory Reserve Capacity (ARC), Center of Gravity (CG) or Unloaded Vehicle Weight (UVW) information, refer to [CENTER OF GRAVITY \(CG\) \(pg. 55\)](#)

Crew Cab

WEIGHTS — 2WD VEHICLES					
Item	Model→	Crew Cab			
	Grade→	S	SV	SL	PRO-X
	Engine→	VQ38DD (3.8L)			
Final Drive Ratio	—	3.692 : 1			
Base Curb Weight - Total	USA Kg (lbs)	2,021.9 (4,458.3)	2,032.5 (4,481.7) LWB: 2,062.3 (4,547.4)	2,111.9 (4,656.7) LWB: 2,144.7 (4,729.1)	2,066.9 (4,557.5)
Base Curb Weight - Rear	USA Kg (lbs)	898.3 (1,980.8)	904.5 (1,994.4) LWB: 895.3 (1,974.1)	971.0 (2,141.1) LWB: 963.4 (2,124.3)	919.8 (2,028.2)
Base Curb Weight - Front	USA Kg (lbs)	1,123.6 (2,477.5)	1,128.0 (2,487.2) LWB: 1,167.0 (2,573.2)	1,140.9 (2,515.7) LWB: 1,181.3 (2,604.8)	1,147.1 (2,529.4)
Maximum GCWR	Kg (lbs)	5,425 (11,960)			
Maximum GVWR	Kg (lbs)	2,727 (6,012)			
Max. Tires and Load Rating @ 350 kPa (51 psi)	Kg (lbs)	P265/70R16 1,090 (2,403)			
Max. Tires and Load Rating @ 350 kPa (51 psi)	Kg (lbs)	—	P265/65R17 1,120 (2,469)		—
Max. Tires and Load Rating @ 350 kPa (51 psi)	Kg (lbs)	—	—	—	P265/70R17 1,215 (2,679)
Standard Payload	USA Kg (lbs)	676.0 (1,490)	671.3 (1,480) LWB: 635.0 (1,400)	589.7 (1,300) LWB: 553.4 (1,220)	648.6 (1,430)
Rear GAWR	Kg (lbs)	1,558 (3,501)			
Front GAWR	Kg (lbs)	1,495 (3,296)			
Bed Wall Side — Maximum Distributed Load	N (lbs)	7,406 (1,665)			

WEIGHTS — 2WD VEHICLES					
Item	Model→	Crew Cab			
	Grade→	S	SV	SL	PRO-X
	Engine→	VQ38DD (3.8L)			
Upper Front Bed Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)			
Upper Side Bed Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)			
Bed Floor Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)			
Cargo Tie Down Pull Strength Practical Load	N (lbs)	1,112 (250)			

King Cab®

WEIGHTS — 2WD VEHICLES			
Item	Model→	King Cab®	
	Grade→	S	SV
	Engine→	VQ38DD (3.8L)	
Final Drive Ratio	—	3.692 : 1	
Base Curb Weight - Total	USA Kg (lbs)	1,985.0 (4,376.9)	1,972.6 (4,349.6)
	Canada Kg (lbs)	1,987.8 (4,383.1)	—
Base Curb Weight - Rear	USA Kg (lbs)	855.4 (1,886.2)	849.2 (1,872.5)
	Canada Kg (lbs)	855.8 (1,887.0)	—
Base Curb Weight - Front	USA Kg (lbs)	1,129.6 (2,490.8)	1,123.4 (2,477.1)
	Canada Kg (lbs)	1,132.0 (2,496.1)	—
Maximum GCWR	Kg (lbs)	5,425 (11,960)	
Maximum GVWR	Kg (lbs)	2,727 (6,012)	
Max. Tires and Load Rating @ 350 kPa (51 psi)	Kg (lbs)	P265/70R16 1,090 (2,403)	
Max. Tires and Load Rating @ 350 kPa (51 psi)	Kg (lbs)	—	P265/65R17 1,120 (2,469)
Standard Payload	USA Kg (lbs)	721.2 (1,590)	734.8 (1,620)
	Canada Kg (lbs)	712.1 (1,570)	—
Rear GAWR	Kg (lbs)	1,558 (3,501)	
Front GAWR	Kg (lbs)	1,495 (3,296)	
Bed Wall Side — Maximum Distributed Load	N (lbs)	7,406 (1,665)	
Upper Front Bed Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)	
Upper Side Bed Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)	
Bed Floor Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)	
Bed Cargo Tie Down Pull Strength Practical Load	N (lbs)	1,112 (250)	

126 WEIGHTS — 4WD VEHICLES — 2022 Model Year

NOTE: For Accessory Reserve Capacity (ARC), Center of Gravity (CG) or Unloaded Vehicle Weight (UVW) information, refer to [CENTER OF GRAVITY \(CG\) \(pg. 55\)](#)

Crew Cab

WEIGHTS — 4WD VEHICLES				
Item	Model→	Crew Cab		
	Grade→	S	SV	Pro-4X
	Engine→	VQ38DD (3.8L)		
Final Drive Ratio	—	3.692 : 1		
Base Curb Weight - Total	USA Kg (lbs)	2,116.5 (4,666.9)	2,106.4 (4,644.6) LWB: 2,165.1 (4,774.0)	2,135.7 (4,709.2)
	Canada Kg (lbs)	—	LWB: 2,188.1 (4,824.8)	2,137.6 (4,713.4)
	Mexico Kg (lbs)	—	—	2,186.4 (4,821.0)
Base Curb Weight - Rear	USA Kg (lbs)	916.0 (2,019.8)	911.5 (2,009.9) LWB: 919.5 (2,027.5)	924.8 (2,039.2)
	Canada Kg (lbs)	—	LWB: 948.4 (2,091.2)	925.6 (2,040.9)
	Mexico Kg (lbs)	—	—	962.0 (2,121.2)
Base Curb Weight - Front	USA Kg (lbs)	1,200.5 (2,647.1)	1,194.9 (2,634.8) LWB: 1,245.7 (2,746.8)	1,210.9 (2,670.0)
	Canada Kg (lbs)	—	LWB: 1,239.8 (2,733.8)	1,212.0 (2,672.5)
	Mexico Kg (lbs)	—	—	1,224.4 (2,699.8)
Maximum GCWR	Kg (lbs)	5,183 (11,427)		
Maximum GVWR	Kg (lbs)	2,727 (6,013)		
Max. Tires and Load Rating @ 350 kPa (51 psi)	Kg (lbs)	P265/70R16 1,090 (2,403)	—	—
Max. Tires and Load Rating @ 300 kPa (44 psi)	Kg (lbs)	—	P265/65R17 1,120 (2,469)	—

WEIGHTS — 4WD VEHICLES				
Item	Model→	Crew Cab		
	Grade→	S	SV	Pro-4X
	Engine→	VQ38DD (3.8L)		
Max. Tires and Load Rating @ 350 kPa (51 psi)	Kg (lbs)	—	—	P265/70R17 1,215 (2,679)
Standard Payload	USA Kg (lbs)	571.5 (1,260.0)	585.1 (1,290.0) LWB: 526.2 (1,160.0)	557.9 (1,230.0)
	Canada Kg (lbs)	—	LWB: 517.1 (1,140.0)	557.9 (1,230.0)
	Mexico Kg (lbs)	—	—	499.0 (1,100.0)
Rear GAWR	Kg (lbs)	1,558 (3,435)		
Front GAWR	Kg (lbs)	1,495 (3,296)		
Bed Wall Side — Maximum Distributed Load	N (lbs)	7,406 (1,665)		
Upper Front Bed Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)		
Upper Side Bed Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)		
Bed Floor Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)		
Cargo Tie Down Pull Strength Practical Load	N (lbs)	1,112 (250)		

WEIGHTS — 4WD VEHICLES

Item	Model→	King Cab®		
	Grade→	S	SV	Pro-4X
	Engine→	VQ38DD (3.8L)		
Final Drive Ratio	—	3.692 : 1		
Base Curb Weight - Total	USA Kg (lbs)	2,056.4 (4,534.3)	2,046.5 (4,512.5)	—
	Canada Kg (lbs)	2,062.1 (4,546.9)	2,049.6 (4,519.4)	2,081.4 (4,589.5)
Base Curb Weight - Rear	USA Kg (lbs)	862.0 (1,900.7)	857.6 (1,891.0)	—
	Canada Kg (lbs)	862.8 (1,902.5)	858.1 (1,892.1)	875.0 (1,929.4)
Base Curb Weight - Front	USA Kg (lbs)	1,194.4 (2,633.7)	1,188.9 (2,621.5)	—
	Canada Kg (lbs)	1,199.3 (2,644.5)	1,191.5 (2,627.3)	1,206.4 (2,660.1)
Maximum GCWR	Kg (lbs)	5,183 (11,427)		
Maximum GVWR	Kg (lbs)	2,727 (6,013)		
Max. Tires and Load Rating @ 350 kPa (51 psi)	Kg (lbs)	P265/70R16 1,090 (2,403)	—	—
Max. Tires and Load Rating @ 300 kPa (44 psi)	Kg (lbs)	—	P265/65R17 1,120 (2,469)	—
Max. Tires and Load Rating @ 350 kPa (51 psi)	Kg (lbs)	—	—	P265/70R17 1,215 (2,679)
Standard Payload	USA Kg (lbs)	639.6 (1,410.0)	653.2 (1,440.0)	—
	Canada Kg (lbs)	635.0 (1,400.0)	648.6 (1,430.0)	617.0 (1,360.0)
Rear GAWR	Kg (lbs)	1,558 (3,435)		
Front GAWR	Kg (lbs)	1,495 (3,296)		
Bed Wall Side — Maximum Distributed Load	N (lbs)	7,406 (1,665)		
Upper Front Bed Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)		

WEIGHTS — 4WD VEHICLES				
Item	Model→	King Cab®		
	Grade→	S	SV	Pro-4X
	Engine→	VQ38DD (3.8L)		
Upper Side Bed Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)		
Bed Floor Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)		
Cargo Tie Down Pull Strength Practical Load	N (lbs)	1,112 (250)		

WEIGHTS — 4WD VEHICLES — 2023 Model Year (early production)

NOTE:

Check battery orientation to identify 2023 model year early or late production, refer to [How to identify Early/Late production \(pg. 81\)](#)

NOTE: For Accessory Reserve Capacity (ARC), Center of Gravity (CG) or Unloaded Vehicle Weight (UVW) information, refer to [CENTER OF GRAVITY \(CG\) \(pg. 55\)](#)

Crew Cab

WEIGHTS — 4WD VEHICLES				
Item	Model→	Crew Cab		
	Grade→	S	SV	Pro-4X
	Engine→	VQ38DD (3.8L)		
Final Drive Ratio	—	3.692 : 1		
Base Curb Weight - Total	USA Kg (lbs)	2,101.4 (4,633.6)	2,092.7 (4,614.4) LWB: 2,194.3 (4,838.4)	2,135.7 (4,709.2)
	Canada Kg (lbs)	—	LWB: 2,196.4 (4,843.1)	2,199.1 (4,849.0)
	Mexico Kg (lbs)	—	—	2,159.0 (4,760.6)
Base Curb Weight - Rear	USA Kg (lbs)	911.3 (2,009.4)	906.2 (1,998.2) LWB: 957.5 (2,111.3)	927.0 (2,044.0)
	Canada Kg (lbs)	—	LWB: 958.3 (2,113.1)	986.2 (2,174.6)
	Mexico Kg (lbs)	—	—	947.9 (2,090.1)
Base Curb Weight - Front	USA Kg (lbs)	1,190.1 (2,624.2)	1,186.5 (2,616.2) LWB: 1,236.8 (2,727.1)	1,208.7 (2,665.2)
	Canada Kg (lbs)	—	LWB: 1,238.1 (2,730.0)	1,212.9 (2,674.5)
	Mexico Kg (lbs)	—	—	1,211.1 (2,670.5)
Maximum GCWR	Kg (lbs)	5,183 (11,427)		
Maximum GVWR	Kg (lbs)	2,727 (6,013)		

WEIGHTS — 4WD VEHICLES				
Item	Model→	Crew Cab		
	Grade→	S	SV	Pro-4X
	Engine→	VQ38DD (3.8L)		
Max. Tires and Load Rating @ 350 kPa (51 psi)	Kg (lbs)	P265/70R16 1,090 (2,403)	—	—
Max. Tires and Load Rating @ 300 kPa (44 psi)	Kg (lbs)	—	P265/65R17 1,120 (2,469)	—
Max. Tires and Load Rating @ 350 kPa (51 psi)	Kg (lbs)	—	—	P265/70R17 1,215 (2,679)
Standard Payload	USA Kg (lbs)	594.2 (1,310)	603.3 (1,330) LWB: 5171 (1,140)	571.5 (1,260.2)
	Canada Kg (lbs)	—	LWB: 508.0 (1,120)	562.5 (1,240)
	Mexico Kg (lbs)	—	—	489.9 (1,080)
Rear GAWR	Kg (lbs)	1,558 (3,435)		
Front GAWR	Kg (lbs)	1,495 (3,296)		
Bed Wall Side — Maximum Distributed Load	N (lbs)	7,406 (1,665)		
Upper Front Bed Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)		
Upper Side Bed Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)		
Bed Floor Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)		
Cargo Tie Down Pull Strength Practical Load	N (lbs)	1,112 (250)		

WEIGHTS — 4WD VEHICLES

Item	Model→	King Cab®		
	Grade→	S	SV	Pro-4X
	Engine→	VQ38DD (3.8L)		
Final Drive Ratio	—	3.692 : 1		
Base Curb Weight - Total	USA Kg (lbs)	2,042.9 (4,504.6)	2,032.7 (4,482.1)	—
	Canada Kg (lbs)	2,052.8 (4,526.4)	2,037.6 (4,492.9)	2,136.6 (4,711.2)
Base Curb Weight - Rear	USA Kg (lbs)	858.5 (1,893.0)	852.3 (1,879.3)	—
	Canada Kg (lbs)	860.9 (1,898.3)	853.1 (1,881.1)	932.0 (2,055.1)
Base Curb Weight - Front	USA Kg (lbs)	1,184.4 (2,611.6)	1,180.4 (2,602.8)	—
	Canada Kg (lbs)	1,191.9 (2,628.1)	1,184.5 (2,611.8)	1,204.6 (2,656.1)
Maximum GCWR	Kg (lbs)	5,183 (11,427)		
Maximum GVWR	Kg (lbs)	2,727 (6,013)		
Max. Tires and Load Rating @ 350 kPa (51 psi)	Kg (lbs)	P265/70R16 1,090 (2,403)	—	—
Max. Tires and Load Rating @ 300 kPa (44 psi)	Kg (lbs)	—	P265/65R17 1,120 (2,469)	—
Max. Tires and Load Rating @ 350 kPa (51 psi)	Kg (lbs)	—	—	P265/70R17 1,215 (2,679)
Standard Payload	USA Kg (lbs)	657.7 (1,450)	666.8 (1,470)	—
	Canada Kg (lbs)	644.1 (1,420)	657.7 (1,450)	616.9 (1,360)
Rear GAWR	Kg (lbs)	1,558 (3,435)		
Front GAWR	Kg (lbs)	1,495 (3,296)		
Bed Wall Side — Maximum Distributed Load	N (lbs)	7,406 (1,665)		
Upper Front Bed Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)		

WEIGHTS — 4WD VEHICLES				
Item	Model→	King Cab®		
	Grade→	S	SV	Pro-4X
	Engine→	VQ38DD (3.8L)		
Upper Side Bed Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)		
Bed Floor Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)		
Cargo Tie Down Pull Strength Practical Load	N (lbs)	1,112 (250)		

WEIGHTS — 4WD VEHICLES — 2023 MODEL YEAR (late production)

NOTE:

Check battery orientation to identify 2023 model year early or late production, refer to [How to identify Early/Late production \(pg. 81\)](#)

NOTE: For Accessory Reserve Capacity (ARC), Center of Gravity (CG) or Unloaded Vehicle Weight (UVW) information, refer to [CENTER OF GRAVITY \(CG\) \(pg. 55\)](#)

Crew Cab

WEIGHTS — 4WD VEHICLES				
Item	Model→	Crew Cab		
	Grade→	S	SV	Pro-4X
	Engine→	VQ38DD (3.8L)		
Final Drive Ratio	—	3.692 : 1		
Base Curb Weight - Total	USA Kg (lbs)	2,111.4 (4,655.6)	2,102.3 (4,635.6) LWB: 2,202.4 (4,856.3)	2,144.5 (4,728.6)
	Canada Kg (lbs)	—	LWB: 2,206.1 (4,864.5)	2,208.2 (4,869.1)
	Mexico Kg (lbs)	—	—	2,172.0 (4,789.3)
Base Curb Weight - Rear	USA Kg (lbs)	907.7 (2,001.5)	902.4 (1,989.8) LWB: 953.5 (2,102.5)	922.2 (2,033.5)
	Canada Kg (lbs)	—	LWB: 955.4 (2,106.7)	981.8 (2,164.9)
	Mexico Kg (lbs)	—	—	946.6 (2,087.3)
Base Curb Weight - Front	USA Kg (lbs)	1,203.6 (2,653.9)	1,199.8 (2,645.6) LWB: 1,248.9 (2,753.8)	1,222.2 (2,695.0)
	Canada Kg (lbs)	—	LWB: 1,250.7 (2,757.8)	1,226.3 (2,704.0)
	Mexico Kg (lbs)	—	—	1,225.3 (2,701.8)
Maximum GCWR	Kg (lbs)	5,183 (11,427)		
Maximum GVWR	Kg (lbs)	2,727 (6,013)		

WEIGHTS — 4WD VEHICLES				
Item	Model→	Crew Cab		
	Grade→	S	SV	Pro-4X
	Engine→	VQ38DD (3.8L)		
Max. Tires and Load Rating @ 350 kPa (51 psi)	Kg (lbs)	P265/70R16 1,090 (2,403)	—	—
Max. Tires and Load Rating @ 300 kPa (44 psi)	Kg (lbs)	—	P265/65R17 1,120 (2,469)	—
Max. Tires and Load Rating @ 350 kPa (51 psi)	Kg (lbs)	—	—	P265/70R17 1,215 (2,679)
Standard Payload	USA Kg (lbs)	585.1 (1,290)	594.2 (1,310) LWB: 499.0 (1,100)	553.4 (1,220)
	Canada Kg (lbs)	—	LWB: 499.0 (1,100)	544.3 (1,200)
	Mexico Kg (lbs)	—	—	476.3 (1,050)
Rear GAWR	Kg (lbs)	1,558 (3,435)		
Front GAWR	Kg (lbs)	1,495 (3,296)		
Bed Wall Side — Maximum Distributed Load	N (lbs)	7,406 (1,665)		
Upper Front Bed Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)		
Upper Side Bed Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)		
Bed Floor Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)		
Cargo Tie Down Pull Strength Practical Load	N (lbs)	1,112 (250)		

WEIGHTS — 4WD VEHICLES

Item	Model→	King Cab®		
	Grade→	S	SV	Pro-4X
	Engine→	VQ38DD (3.8L)		
Final Drive Ratio	—	3.692 : 1		
Base Curb Weight - Total	USA Kg (lbs)	2,052.0 (4,524.7)	2,041.3 (4,501.1)	—
	Canada Kg (lbs)	2,047.9 (4,514.8)	2,047.8 (4,515.4)	2,131.7 (4,699.6)
Base Curb Weight - Rear	USA Kg (lbs)	854.5 (1,884.2)	848.0 (1,869.8)	—
	Canada Kg (lbs)	860.1 (1,896.2)	850.0 (1,874.3)	931.2 (2,052.9)
Base Curb Weight - Front	USA Kg (lbs)	1,197.4 (2,640.3)	1,193.2 (2,631.0)	—
	Canada Kg (lbs)	1,187.8 (2,618.7)	1,197.7 (2,640.9)	1,200.5 (2,646.7)
Maximum GCWR	Kg (lbs)	5,183 (11,427)		
Maximum GVWR	Kg (lbs)	2,727 (6,013)		
Max. Tires and Load Rating @ 350 kPa (51 psi)	Kg (lbs)	P265/70R16 1,090 (2,403)	—	—
Max. Tires and Load Rating @ 300 kPa (44 psi)	Kg (lbs)	—	P265/65R17 1,120 (2,469)	—
Max. Tires and Load Rating @ 350 kPa (51 psi)	Kg (lbs)	—	—	P265/70R17 1,215 (2,679)
Standard Payload	USA Kg (lbs)	648.6 (1,430)	657.7 (1,450)	—
	Canada Kg (lbs)	635.0 (1,400)	648.6 (1,430)	607.8 (1,340)
Rear GAWR	Kg (lbs)	1,558 (3,435)		
Front GAWR	Kg (lbs)	1,495 (3,296)		
Bed Wall Side — Maximum Distributed Load	N (lbs)	7,406 (1,665)		
Upper Front Bed Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)		

WEIGHTS — 4WD VEHICLES				
Item	Model→	King Cab®		
	Grade→	S	SV	Pro-4X
	Engine→	VQ38DD (3.8L)		
Upper Side Bed Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)		
Bed Floor Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)		
Cargo Tie Down Pull Strength Practical Load	N (lbs)	1,112 (250)		

138 **WEIGHTS — 4WD VEHICLES — 2024 MODEL YEAR**

NOTE:

Check battery orientation to identify 2023 model year early or late production, refer to [How to identify Early/Late production \(pg. 81\)](#)

NOTE: For Accessory Reserve Capacity (ARC), Center of Gravity (CG) or Unloaded Vehicle Weight (UVW) information, refer to [CENTER OF GRAVITY \(CG\) \(pg. 55\)](#)

Crew Cab

WEIGHTS — 4WD VEHICLES					
Item	Model→	Crew Cab			
	Grade→	S	SV	SL	Pro-4X
	Engine→	VQ38DD (3.8L)			
Final Drive Ratio	—	3.692 : 1			
Base Curb Weight - Total	USA Kg (lbs)	2,108.8 (4,649.9)	2,105.5 (4,642.6) LWB: 2,202.6 (4,856.7)	2,173.7 (4,793.0)	2,144.7 (4,729.1)
	Canada Kg (lbs)	—	LWB: 2,206.4 (4,865.1)	LWB: 2,230.6 (4,918.5)	2,207.4 (4,867.3)
	Mexico Kg (lbs)	—	—	—	2,172.3 (4,789.9)
Base Curb Weight - Rear	USA Kg (lbs)	906.1 (1,998.0)	903.9 (1,993.1) LWB: 953.6 (2,102.7)	963.3 (2,124.1)	922.3 (2,033.7)
	Canada Kg (lbs)	—	LWB: 955.5 (2,106.9)	LWB: 967.3 (2,132.9)	981.4 (2,164.0)
	Mexico Kg (lbs)	—	—	—	946.7 (2,087.5)
Base Curb Weight - Front	USA Kg (lbs)	1,202.7 (2,652.0)	1,201.6 (2,649.5) LWB: 1,249.1 (2,754.3)	1,210.4 (2,668.9)	1,222.4 (2,695.4)
	Canada Kg (lbs)	—	LWB: 1,251.0 (2,758.5)	LWB: 1,263.4 (2,785.8)	1,226.0 (2,703.3)
	Mexico Kg (lbs)	—	—	—	1,225.6 (2,702.5)
Maximum GCWR	Kg (lbs)	5,183 (11,427)			
Maximum GVWR	Kg (lbs)	2,727 (6,012)			

WEIGHTS — 4WD VEHICLES					
Item	Model→	Crew Cab			
	Grade→	S	SV	SL	Pro-4X
	Engine→	VQ38DD (3.8L)			
Max. Tires and Load Rating @ 350 kPa (51 psi)	Kg (lbs)	P265/70R16 1,090 (2,403)	—	—	—
Max. Tires and Load Rating @ 300 kPa (44 psi)	Kg (lbs)	—	P265/65R17 1,120 (2,469)	P265/65R17 1,120 (2,469)	—
Max. Tires and Load Rating @ 350 kPa (51 psi)	Kg (lbs)	—	—	—	P265/70R17 1,215 (2,679)
Standard Payload	USA Kg (lbs)	585.0 (1,290)	594.0 (1,310) LWB: 499.0 (1,100)	522.0 (1,150)	553.0 (1,220)
	Canada Kg (lbs)	—	LWB: 499.0 (1,100)	LWB: 476.0 (1,050)	544.0 (1,200)
	Mexico Kg (lbs)	—	—	—	476.0 (1,050)
Rear GAWR	Kg (lbs)	1,558 (3,501)			
Front GAWR	Kg (lbs)	1,495 (3,296)			
Bed Wall Side — Maximum Distributed Load	N (lbs)	7,406 (1,665)			
Upper Front Bed Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)			
Upper Side Bed Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)			
Bed Floor Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)			
Cargo Tie Down Pull Strength Practical Load	N (lbs)	1,112 (250)			

WEIGHTS — 4WD VEHICLES

Item	Model→	King Cab®		
	Grade→	S	SV	Pro-4X
	Engine→	VQ38DD (3.8L)		
Final Drive Ratio	—	3.692 : 1		
Base Curb Weight - Total	USA Kg (lbs)	2,051.8 (4,524.2)	2,044.4 (4,507.9)	—
	Canada Kg (lbs)	2,056.8 (4,535.2)	2,051.0 (4,522.5)	2,139.0 (4,716.5)
Base Curb Weight - Rear	USA Kg (lbs)	854.6 (1,884.4)	849.5 (1,873.1)	—
	Canada Kg (lbs)	856.2 (1,887.9)	851.6 (1,877.8)	926.1 (2,042.1)
Base Curb Weight - Front	USA Kg (lbs)	1,197.2 (2,639.8)	1,194.9 (2,634.8)	—
	Canada Kg (lbs)	1,200.6 (2,647.3)	1,199.4 (2,644.7)	1,212.9 (2,674.4)
Maximum GCWR	Kg (lbs)	5,183 (11,427)		
Maximum GVWR	Kg (lbs)	2,727 (6,012)		
Max. Tires and Load Rating @ 350 kPa (51 psi)	Kg (lbs)	P265/70R16 1,090 (2,403)	—	—
Max. Tires and Load Rating @ 300 kPa (44 psi)	Kg (lbs)	—	P265/65R17 1,120 (2,469)	—
Max. Tires and Load Rating @ 350 kPa (51 psi)	Kg (lbs)	—	—	P265/70R17 1,215 (2,679)
Standard Payload	USA Kg (lbs)	649 (1,430)	658 (1,450)	—
	Canada Kg (lbs)	635 (1,400)	649 (1,430)	608 (1,340)
Rear GAWR	Kg (lbs)	1,558 (3,501)		
Front GAWR	Kg (lbs)	1,495 (3,296)		
Bed Wall Side — Maximum Distributed Load	N (lbs)	7,406 (1,665)		
Upper Front Bed Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)		

WEIGHTS — 4WD VEHICLES				
Item	Model→	King Cab®		
	Grade→	S	SV	Pro-4X
	Engine→	VQ38DD (3.8L)		
Upper Side Bed Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)		
Bed Floor Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)		
Cargo Tie Down Pull Strength Practical Load	N (lbs)	1,112 (250)		

142 **WEIGHTS — 4WD VEHICLES — 2025 MODEL YEAR**

NOTE:
 Check battery orientation to identify 2023 model year early or late production, refer to [How to identify Early/Late production \(pg. 81\)](#)
NOTE: For Accessory Reserve Capacity (ARC), Center of Gravity (CG) or Unloaded Vehicle Weight (UVW) information, refer to [CENTER OF GRAVITY \(CG\) \(pg. 55\)](#)

Crew Cab

WEIGHTS — 4WD VEHICLES					
Item	Model→	Crew Cab			
	Grade→	S	SV	SL	Pro-4X
	Engine→	VQ38DD (3.8L)			
Final Drive Ratio	—	3.692 : 1			
Base Curb Weight - Total	USA Kg (lbs)	2,094.6 (4,618.6)	2,107.4 (4,646.8) LWB: 2,153.1 (4,747.6)	2,186.9 (4,822.1) LWB: 2,235.6 (4,929.5)	2,158.7 (4,759.9) LWB: 2,205.1 (4,862.2)
	Canada Kg (lbs)	—	LWB: 2,157.9 (4,758.2)	LWB: 2,237.2 (4,933.0)	2,207.4 (4,867.3) LWB: 2,256.4 (4,975.4)
	Mexico Kg (lbs)	—	—	—	2,182.0 (4,811.3)
Base Curb Weight - Rear	USA Kg (lbs)	898.0 (1,980.1)	903.8 (1,992.9) LWB: 900.4 (1,985.4)	970.3 (2,139.5) LWB: 968.5 (2,135.5)	931.3 (2,053.5) LWB: 928.6 (2,047.6)
	Canada Kg (lbs)	—	LWB: 901.3 (1,987.4)	LWB: 969.3 (2,137.3)	983.5 (2,168.6) LWB: 982.3 (2,166.0)
	Mexico Kg (lbs)	—	—	—	953.5 (2,102.5)

WEIGHTS — 4WD VEHICLES					
Item	Model→	Crew Cab			
	Grade→	S	SV	SL	Pro-4X
	Engine→	VQ38DD (3.8L)			
Base Curb Weight - Front	USA Kg (lbs)	1,196.6 (2,638.5)	1,203.6 (2,653.9) LWB: 1,252.7 (2,762.2)	1,216.6 (2,682.6) LWB: 1,267.1 (2,794.0)	1,227.4 (2,706.4) LWB: 1,276.5 (2,814.7)
	Canada Kg (lbs)	—	LWB: 1,256.6 (2,770.8)	LWB: 1,267.9 (2,795.7)	1,223.9 (2,698.7) LWB: 1,274.1 (2,809.4)
	Mexico Kg (lbs)	—	—	—	1,228.5 (2,708.8)
Maximum GCWR	Kg (lbs)	5,425 (11,960)			
Maximum GVWR	Kg (lbs)	2,727 (6,012)			
Max. Tires and Load Rating @ 350 kPa (51 psi)	Kg (lbs)	P265/70R16 1,090 (2,403)	—	—	—
Max. Tires and Load Rating @ 300 kPa (44 psi)	Kg (lbs)	—	P265/65R17 1,120 (2,469)	P265/65R17 1,120 (2,469)	—
Max. Tires and Load Rating @ 350 kPa (51 psi)	Kg (lbs)	—	—	—	P265/70R17 1,215 (2,679)
Standard Payload	USA Kg (lbs)	603.0 (1,330)	594.2 (1,310) LWB: 544.3 (1,200)	521.6 (1,150) LWB: 462.7 (1,020)	553.4 (1,220) LWB: 499.0 (1,100)
	Canada Kg (lbs)	—	LWB: 544.3 (1,200)	LWB: 476.3 (1,050)	544.3 (1,200) LWB: 499.0 (1,100)
	Mexico Kg (lbs)	—	—	—	476.3 (1,050)
Rear GAWR	Kg (lbs)	1,558 (3,501)			
Front GAWR	Kg (lbs)	1,495 (3,296)			
Bed Wall Side — Maximum Distributed Load	N (lbs)	7,406 (1,665)			
Upper Front Bed Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)			

WEIGHTS — 4WD VEHICLES					
Item	Model→	Crew Cab			
	Grade→	S	SV	SL	Pro-4X
	Engine→	VQ38DD (3.8L)			
Upper Side Bed Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)			
Bed Floor Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)			
Cargo Tie Down Pull Strength Practical Load	N (lbs)	1,112 (250)			

King Cab®

WEIGHTS — 4WD VEHICLES				
Item	Model→	King Cab®		
	Grade→	S	SV	Pro-4X
	Engine→	VQ38DD (3.8L)		
Final Drive Ratio	—	3.692 : 1		
Base Curb Weight - Total	USA Kg (lbs)	2,056.7 (4,535.0)	2,046.4 (4,512.3)	—
	Canada Kg (lbs)	2,059.5 (4,541.2)	2,050.7 (4,521.8)	2,154.6 (4,750.9)
Base Curb Weight - Rear	USA Kg (lbs)	856.0 (1,887.5)	849.4 (1,872.9)	—
	Canada Kg (lbs)	856.4 (1,888.4)	850.2 (1,874.7)	935.8 (2,063.4)
Base Curb Weight - Front	USA Kg (lbs)	1,200.7 (2,647.5)	1,197.0 (2,639.4)	—
	Canada Kg (lbs)	1,203.1 (2,652.8)	1,200.5 (2,647.1)	1,218.8 (2,687.5)
Maximum GCWR	Kg (lbs)	5,425 (11,960)		
Maximum GVWR	Kg (lbs)	2,727 (6,012)		
Max. Tires and Load Rating @ 350 kPa (51 psi)	Kg (lbs)	P265/70R16 1,090 (2,403)	—	—
Max. Tires and Load Rating @ 350 kPa (51 psi)	Kg (lbs)	—	P265/65R17 1,120 (2,469)	—
Max. Tires and Load Rating @ 350 kPa (51 psi)	Kg (lbs)	—	—	P265/70R17 1,215 (2,679)
Standard Payload	USA Kg (lbs)	648.6 (1,430)	657.7 (1,450)	—
	Canada Kg (lbs)	644.1 (1,420)	653.2 (1,440)	607.8 (1,340)
Rear GAWR	Kg (lbs)	1,558 (3,501)		
Front GAWR	Kg (lbs)	1,495 (3,296)		
Bed Wall Side — Maximum Distributed Load	N (lbs)	7,406 (1,665)		
Upper Front Bed Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)		

WEIGHTS — 4WD VEHICLES				
Item	Model→	King Cab®		
	Grade→	S	SV	Pro-4X
	Engine→	VQ38DD (3.8L)		
Upper Side Bed Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)		
Bed Floor Track Weld Nut Pull Strength Practical Load	N (lbs)	1,112 (250)		
Cargo Tie Down Pull Strength Practical Load	N (lbs)	1,112 (250)		

INTERIOR MEASUREMENTS

NOTE:

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

Crew Cab

CAB INTERIOR MEASUREMENTS						
Item	Model →	Crew Cab				
	Grade →	S	SV	SL	Pro-X	Pro-4X
	Engine →	VQ38DD (3.8L)				
Maximum Interior Length at Floor - Behind Center Console at Vehicle Center	mm (in)	947.4 (37.3)				
Maximum Interior Width	mm (in)	1,485.9 (58.5)				
Maximum Interior Length at Floor - Behind Seat (pg. 179)	mm (in)	571.5 (22.5)				
Maximum Interior Length Behind Seat Back (pg. 179)	mm (in)	1,054.1 (41.5)				
Maximum Interior Height	mm (in)	1,176.7 (46.3) (without moonroof) 1,117.6 (44.0) (moonroof)				
Passenger Cab Volume (SAE)	m ³ (ft ³)	2.8 (100.1) (without moonroof) 2.8 (98.9) (moonroof)				
Passenger Cab Cargo Volume (SAE)(Volume Behind 1st Row)	m ³ (ft ³)	1.2 (43.2)				

CAB INTERIOR MEASUREMENTS				
Item	Model →	King Cab®		
	Grade →	S	SV	PRO-4X
	Engine →	VQ38DD (3.8L)		
Maximum Interior Length at Floor - Behind Center Console at Vehicle Center	mm (in)	464.8 (18.3)		
Maximum Interior Width	mm (in)	1,358.9 (53.5)		
Maximum Interior Length at Floor - Behind Seat (pg. 181)	mm (in)	558.8 (22.0)		
Maximum Interior Length Behind Seat Back (pg. 181)	mm (in)	617.2 (24.3)		
Maximum Interior Height	mm (in)	1,150.6 (45.3)		
Passenger Cab Volume (SAE)	m ³ (ft ³)	2.4 (85.7)		
Passenger Cab Cargo Volume (SAE)(Volume Behind 1st Row)	m ³ (ft ³)	0.8 (29.1)		

Crew Cab

BED INTERIOR MEASUREMENTS						
Item	Model →	Crew Cab				
	Grade →	S	SV	SL	PRO-X	PRO-4X
	Engine →	VQ38DD (3.8L)				
Maximum Cargo Width at Wheel Wells (pg. 207)	mm (in)	1,130.0 (44.9)				
Maximum Cargo Width at Floor	mm (in)	1,560.0 (61.4)				
Maximum Cargo Length (pg. 207)	mm (in)	1,495.5 (58.9) with bedliner and tailgate liner 1,511.5 (59.5) without bedliner and tailgate liner LWB: 1,845.5 (72.7) with bedliner and tailgate liner 1,861.5 (73.3) without bedliner and tailgate liner				
Height of Bed (pg. 207)	mm (in)	494.0 (19.4)				
Cargo Volume — Bed (SAE)	m ³ (ft ³)	1.12 (39.6) with bedliner and tailgate liner 1.14 (40.1) without bedliner and tailgate liner LWB: 1.39 (49.1) with bedliner and tailgate liner 1.41 (49.6) without bedliner and tailgate liner				

BED INTERIOR MEASUREMENTS				
Item	Model →	King Cab®		
	Grade →	S	SV	PRO-4X
	Engine →	VQ38DD (3.8L)		
Maximum Cargo Width at Wheel Wells (pg. 225)	mm (in)	1,130.0 (44.9)		
Maximum Cargo Width at Floor	mm (in)	1,560.0 (61.4)		
Maximum Cargo Length (pg. 225)	mm (in)	1,845.5 (72.7) with bedliner and tailgate liner 1,861.5 (73.3) without bedliner and tailgate liner		
Height of Bed (pg. 225)	mm (in)	494.0 (19.4)		
Cargo Volume — Bed (SAE)	m ³ (ft ³)	1.39 (49.1) with bedliner and tailgate liner 1.41 (49.6) without bedliner and tailgate liner		

EXTERIOR MEASUREMENTS — 2022 and 2023 Model Years (early/late)

NOTE:

Check battery orientation to identify 2023 model year early or late production, refer to [How to identify Early/Late production \(pg. 81\)](#)

NOTE:

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

Crew Cab

EXTERIOR MEASUREMENTS					
Item	Model→	Crew Cab			
	Grade→	S	SV	PRO-X	PRO-4X
	Engine→	VQ38DD (3.8L)			
Vehicle Height (pg. 199)	2WD *1 mm (in)	1,828.0 (72.0)	1,819.7 (71.6) LWB: 1,815.1 (71.5)	1,842.0 (72.5)	—
	2WD *2 mm (in)	1823.5 (71.8)	1,814.7 (71.4) LWB: 1,809.8 (71.3)	1,837.0 (72.3)	—
	4WD mm (in)	1,838.4 (72.4)	1,829.6 (72.0) LWB: 1,825.7 (71.9)	—	1,852.6 (72.9) MEX: 1,852.4 (72.9)
Wheel Type (pg. 444)	2WD mm (in)	16 x 7JJ Styled Steel	17 x 7.5J Alloy		
	4WD mm (in)	16 x 7JJ Styled Steel	17 x 7.5J Alloy		
Wheelbase (pg. 199)	mm (in)	3,200.0 (126.0) LWB: 3,550.0 (139.8)			
Front Track Width	mm (in)	1,570.0 (61.8)			
Rear Track Width	mm (in)	1570.0 (61.8)			
Turning Diameter – Wall-to-Wall (pg. 443)	2WD mm (in)	13,686.8 (538.8) LWB: 14,961.2 (589.0)			
	4WD mm (in)	13,607.9 (535.8) LWB: 14,872.8 (585.6)			

EXTERIOR MEASUREMENTS					
Item	Model→	Crew Cab			
	Grade→	S	SV	PRO-X	PRO-4X
	Engine→	VQ38DD (3.8L)			
Vehicle Length (pg. 199)	mm (in)	5,338.1 (210.2) LWB: 5,692.1 (224.1)			5,338.1 (210.2)
Front Overhang (without license plate holder) (pg. 199)	mm (in)	892.3 (35.1)			
Rear Overhang (pg. 199)	mm (in)	1,245.9 (49.1)			
Rear Door Opening Height - Maximum Clearance (pg. 197)	Without Door Seal mm (in)	1,113.2 (43.8)			
	With Door Seal mm (in)	1,120.2 (44.1)			
Rear Door Opening Width - Maximum Clearance (pg. 197)	Without Door Seal mm (in)	767.7 (30.2)			
	With Door Seal mm (in)	774.7 (30.5)			
Bed Interior Height (pg. 207)	2WD mm (in)	494.0 (19.4)			
	4WD mm (in)				
Tailgate Opening Width - Maximum Clearance (pg. 207)	mm (in)	1,404.3 (55.3)			
Vehicle Width - Without Mirrors (pg. 199)	mm (in)	1,853.5 (73.0)			1,896.5 (74.7)

EXTERIOR MEASUREMENTS					
Item	Model→	Crew Cab			
	Grade→	S	SV	PRO-X	PRO-4X
	Engine→	VQ38DD (3.8L)			
Minimum Ground Clearance	2WD *1 mm (in)	207.6 (8.2)	198.6 (7.8) LWB: 198.7 (7.8)	221.6 (8.7)	—
	2WD *2 mm (in)	199.2 (7.8)	191.3 (7.5) LWB: 192.1 (7.6)	214.3 (8.4)	—
	4WD mm (in)	204.6 (8.0)	196.6 (7.7) LWB: 195.7 (7.7)	—	218.6 (8.6)
Step-in Height - Front	2WD *1 mm (in)	507.9 (20.0)	500.0 (19.7) LWB: 498.7 (19.6)	529.5 (20.9)	—
	2WD *2 mm (in)	502.5 (19.8)	494.2 (19.5) LWB: 491.3 (19.3)	516.8 (20.4)	—
	4WD mm (in)	519.4 (20.5)	510.6 (20.1) LWB: 509.3 (20.1)	—	533.6 (21.0)
Step-in Height - Rear	2WD *1 mm (in)	520.3 (20.5)	512.1 (20.2) LWB: 508.8 (20.0)	534.6 (21.0)	—
	2WD *2 mm (in)	515.5 (20.3)	506.9 (20.0) LWB: 502.7 (19.8)	529.2 (20.8)	—
	4WD mm (in)	531.1 (20.9)	522.3 (20.6) LWB: 519.4 (20.5)	—	545.3 (21.5)

*1: 2023 model year **early** production.

*2: 2023 model year **late** production.

EXTERIOR MEASUREMENTS				
Item	Model→	King Cab®		
	Grade→	S	SV	PRO-4X
	Engine→	VQ38DD (3.8L)		
Vehicle Height (pg. 219)	2WD *1 mm (in)	1,821.6 (71.7)	1,812.9 (71.4)	—
	2WD *2 mm (in)	1,815.6 (71.5)	1,807.6 (71.2)	—
	4WD mm (in)	1,831.5 (72.1)	1,823.5 (71.8)	1,845.8 (72.7)
Wheel Type (pg. 444)	2WD mm (in)	16 x 7JJ Styled Steel	17 x 7.5J Alloy	
	4WD mm (in)	16 x 7JJ Styled Steel	17 x 7.5J Alloy	
Wheelbase (pg. 219)	mm (in)	3,200.0 (126.0)		
Front Track Width	mm (in)	1,570.0 (61.8)		
Rear Track Width	mm (in)	1,570.0 (61.8)		
Turning Diameter – Wall-to-Wall (pg. 443)	2WD mm (in)	13,686.8 (538.8)		
	4WD mm (in)	13,607.9 (535.8)		
Vehicle Length (pg. 219)	mm (in)	5,338.1 (210.2)		
Front Overhang (pg. 219)	mm (in)	892.3 (35.1)		
Rear Overhang (pg. 219)	mm (in)	1,245.9 (49.1)		
Door Opening Height - Maximum Clearance (pg. 217)	Without Door Seal mm (in)	1,109.9 (43.7)		
	With Door Seal mm (in)	1,116.9 (44.0)		
Door Opening Width - Maximum Clearance (pg. 217)	Without Door Seal mm (in)	1,321.4 (52.0)		
	With Door Seal mm (in)	1,328.4 (52.3)		

EXTERIOR MEASUREMENTS				
Item	Model→	King Cab®		
	Grade→	S	SV	PRO-4X
	Engine→	VQ38DD (3.8L)		
Bed Interior Height (pg. 225)	2WD mm (in)	494.0 (19.4)		
	4WD mm (in)			
Tailgate Opening Width - Maximum Clearance (pg. 225)	mm (in)	1,491.0 (58.7)		
Vehicle Width - Without Mirrors (pg. 219)	mm (in)	1,853.5 (73.0)		
Minimum Ground Clearance	2WD *1 mm (in)	207.6 (8.2)	199.6 (7.9)	—
	2WD *2 mm (in)	199.2 (7.8)	191.2 (7.5)	—
	4WD mm (in)	204.6 (8.1)	196.6 (7.7)	219.6 (8.7)
Step-in Height - Front	2WD *1 mm (in)	508.9 (20.0)	500.5 (19.7)	—
	2WD *2 mm (in)	502.5 (19.8)	494.5 (19.5)	—
	4WD mm (in)	519.4 (20.5)	511.6 (20.1)	534.6 (21.0)
Step-in Height - Rear	2WD *1 mm (in)	553.0 (21.0)	544.4 (21.4)	—
	2WD *2 mm (in)	546.9 (21.5)	538.9 (21.2)	—
	4WD mm (in)	531.1 (20.9)	555.2 (21.9)	578.2 (22.8)

*1: 2023 model year **early** production.

*2: 2023 model year **late** production.

156 **EXTERIOR MEASUREMENTS — (2024 Model Year)**

NOTE:

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

Crew Cab

EXTERIOR MEASUREMENTS							
Item	Model→	Crew Cab					
	Grade→	S	SV		SL	PRO-X	PRO-4X
	Engine→	VQ38DD (3.8L)					
Vehicle Height (pg. 199)	2WD mm (in)	1823.5 (71.8) *1		1,814.7 (71.4) *2 LWB: 1,809.8 (71.3)		1,837.0 (72.3)	—
	4WD mm (in)	1,838.4 (72.4) *1		1,829.6 (72.0) *2 LWB: 1,825.7 (71.9)		—	1,852.6 (72.9) MEX: 1,852.4 (72.9)
Wheel Type (pg. 444)	2WD mm (in)	16 x 7JJ Styled Steel	16 x 7JJ Alloy LWB/Optional: 17 x 7.5J Alloy		17 x 7.5J Alloy		
	4WD mm (in)	16 x 7JJ Styled Steel			17 x 7.5J Alloy		
Wheelbase (pg. 199)	mm (in)	3,200.0 (126.0) LWB: 3,550.0 (139.8)					
Front Track Width	mm (in)	1,570.0 (61.8)					
Rear Track Width	mm (in)	1570.0 (61.8)					
Turning Diameter – Wall-to-Wall (pg. 443)	2WD mm (in)	13,686.8 (538.8) LWB: 14,961.2 (589.0)					
	4WD mm (in)	13,607.9 (535.8) LWB: 14,872.8 (585.6)					
Vehicle Length (pg. 199)	mm (in)	5,338.1 (210.2) LWB: 5,692.1 (224.1)				5,338.1 (210.2)	

EXTERIOR MEASUREMENTS						
Item	Model→	Crew Cab				
	Grade→	S	SV	SL	PRO-X	PRO-4X
	Engine→	VQ38DD (3.8L)				
Front Overhang (without license plate holder) (pg. 199)	mm (in)	892.3 (35.1)				
Rear Overhang (pg. 199)	mm (in)	1,245.9 (49.1)				
Rear Door Opening Height - Maximum Clearance (pg. 197)	Without Door Seal mm (in)	1,113.2 (43.8)				
	With Door Seal mm (in)	1,120.2 (44.1)				
Rear Door Opening Width - Maximum Clearance (pg. 197)	Without Door Seal mm (in)	767.7 (30.2)				
	With Door Seal mm (in)	774.7 (30.5)				
Bed Interior Height (pg. 207)	2WD mm (in)	494.0 (19.4)				
	4WD mm (in)					
Tailgate Opening Width - Maximum Clearance (pg. 207)	mm (in)	1,404.3 (55.3)				
Vehicle Width - Without Mirrors (pg. 199)	mm (in)	1,853.5 (73.0)			1,896.5 (74.7)	

EXTERIOR MEASUREMENTS						
Item	Model→	Crew Cab				
	Grade→	S	SV	SL	PRO-X	PRO-4X
	Engine→	VQ38DD (3.8L)				
Minimum Ground Clearance	2WD mm (in)	199.2 (7.8) *1	191.2 (7.5) *2 LWB: 192.1 (7.6)		214.3 (8.4)	—
	4WD mm (in)	204.6 (8.0) *1	196.6 (7.7) *2 LWB: 195.7 (7.7)		—	218.6 (8.6)
Step-in Height - Front	2WD mm (in)	502.5 (19.8) *1	494.5 (19.5) *2 LWB: 491.3 (19.3)		529.5 (20.9)	—
	4WD mm (in)	519.4 (20.5) *1	510.6 (20.1) *2 LWB: 509.3 (20.1)		516.8 (20.4)	—
Step-in Height - Rear	2WD mm (in)	515.5 (20.3) *1	506.9 (20.0) *2 LWB: 502.7 (19.8)		529.2 (20.8)	—
	4WD mm (in)	531.1 (20.9) *1	522.3 (20.6) *2 LWB: 519.4 (20.4)		—	545.3 (21.5)

*1: SV base w/ 16" wheels.

*2: SV w/ comfort & convenience package w/ 17" wheels.

King Cab®

EXTERIOR MEASUREMENTS				
Item	Model→	King Cab®		
	Grade→	S	SV	PRO-4X
	Engine→	VQ38DD (3.8L)		
Vehicle Height (pg. 219)	2WD mm (in)	1,815.6 (71.5) *1		1,807.6 (71.2) *2
	4WD mm (in)	1,831.5 (72.1) *1		1,823.5 (71.8) *2
Wheel Type (pg. 444)	2WD mm (in)	16 x 7JJ Styled Steel	16 x 7JJ Alloy Optional: 17 x 7.5J Alloy	17 x 7.5J Alloy
	4WD mm (in)	16 x 7JJ Styled Steel		17 x 7.5J Alloy
Wheelbase (pg. 219)	mm (in)	3,200.0 (126.0)		
Front Track Width	mm (in)	1,570.0 (61.8)		
Rear Track Width	mm (in)	1,570.0 (61.8)		
Turning Diameter – Wall-to-Wall (pg. 443)	2WD mm (in)	13,686.8 (538.8)		
	4WD mm (in)	13,607.9 (535.8)		
Vehicle Length (pg. 219)	mm (in)	5,338.1 (210.2)		
Front Overhang (pg. 219)	mm (in)	892.3 (35.1)		
Rear Overhang (pg. 219)	mm (in)	1,245.9 (49.1)		
Door Opening Height – Maximum Clearance (pg. 217)	Without Door Seal mm (in)	1,109.9 (43.7)		
	With Door Seal mm (in)	1,116.9 (44.0)		
Door Opening Width – Maximum Clearance (pg. 217)	Without Door Seal mm (in)	1,321.4 (52.0)		
	With Door Seal mm (in)	1,328.4 (52.3)		

EXTERIOR MEASUREMENTS				
Item	Model→	King Cab®		
	Grade→	S	SV	PRO-4X
	Engine→	VQ38DD (3.8L)		
Bed Interior Height (pg. 225)	2WD mm (in)	494.0 (19.4)		
	4WD mm (in)			
Tailgate Opening Width - Maximum Clearance (pg. 225)	mm (in)	1,491.0 (58.7)		
Vehicle Width - Without Mirrors (pg. 219)	mm (in)	1,853.5 (73.0)		
Minimum Ground Clearance	2WD mm (in)	199.2 (7.8) *1	191.2 (7.5) *2	—
	4WD mm (in)	204.6 (8.1) *1	196.6 (7.7) *2	219.6 (8.7)
Step-in Height - Front	2WD mm (in)	502.5 (19.8) *1	494.5 (19.5) *2	—
	4WD mm (in)	519.4 (20.5) *1	511.6 (20.1) *2	534.6 (21.0)
Step-in Height - Rear	2WD mm (in)	546.9 (21.5) *1	538.9 (21.2) *2	—
	4WD mm (in)	531.1 (20.9) *1	555.2 (21.9) *2	578.2 (22.8)

*1: SV base w/ 16" wheels.

*2: SV w/ comfort & convenience package w/ 17" wheels.

EXTERIOR MEASUREMENTS — (Starting with 2025 Model Year)

NOTE:

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

Crew Cab

EXTERIOR MEASUREMENTS							
Item	Model→	Crew Cab					
	Grade→	S	SV		SL	PRO-X	PRO-4X
	Engine→	VQ38DD (3.8L)					
Vehicle Height (pg. 199)	2WD mm (in)	1823.5 (71.8)	1,814.7 (71.4) LWB: 1,809.8 (71.3)			1,837.0 (72.3)	—
	4WD mm (in)	1,838.4 (72.4)	1,829.6 (72.0) LWB: 1,825.7 (71.9)			—	1,852.6 (72.9) LWB: 1,848.7 (72.8)
Wheel Type (pg. 444)	2WD mm (in)	16 x 7JJ Styled Steel	LWB/Optional: 17 x 7.5J Alloy		17 x 7.5J Alloy		
	4WD mm (in)	16 x 7JJ Styled Steel			17 x 7.5J Alloy		
Wheelbase (pg. 199)	mm (in)	3,200.0 (126.0) LWB: 3,550.0 (139.8)					
Front Track Width	mm (in)	1,570.0 (61.8)					
Rear Track Width	mm (in)	1570.0 (61.8)					
Turning Diameter – Wall-to-Wall (pg. 443)	2WD mm (in)	13,686.8 (538.8) LWB: 14,961.2 (589.0)					
	4WD mm (in)	13,607.9 (535.8) LWB: 14,872.8 (585.6)					
Vehicle Length (pg. 199)	mm (in)	5,338.1 (210.2) LWB: 5,692.1 (224.1)					

EXTERIOR MEASUREMENTS						
Item	Model→	Crew Cab				
	Grade→	S	SV	SL	PRO-X	PRO-4X
	Engine→	VQ38DD (3.8L)				
Front Overhang (without license plate holder) (pg. 199)	mm (in)	892.3 (35.1)				
Rear Overhang (pg. 199)	mm (in)	1,245.9 (49.1)				
Rear Door Opening Height - Maximum Clearance (pg. 197)	Without Door Seal mm (in)	1,113.2 (43.8)				
	With Door Seal mm (in)	1,120.2 (44.1)				
Rear Door Opening Width - Maximum Clearance (pg. 197)	Without Door Seal mm (in)	767.7 (30.2)				
	With Door Seal mm (in)	774.7 (30.5)				
Bed Interior Height (pg. 207)	2WD mm (in)	494.0 (19.4)				
	4WD mm (in)					
Tailgate Opening Width - Maximum Clearance (pg. 207)	mm (in)	1,404.3 (55.3)				
Vehicle Width - Without Mirrors (pg. 199)	mm (in)	1,853.5 (73.0)			1,896.5 (74.7)	

EXTERIOR MEASUREMENTS						
Item	Model→	Crew Cab				
	Grade→	S	SV	SL	PRO-X	PRO-4X
	Engine→	VQ38DD (3.8L)				
Minimum Ground Clearance	2WD mm (in)	199.2 (7.8)	191.3 (7.5) LWB: 192.1 (7.6)		214.3 (8.4)	—
	4WD mm (in)	204.6 (8.1)	196.6 (7.7) LWB: 195.7 (7.7)		—	219.6 (8.6) LWB: 217.7 (8.6)
Step-in Height - Front	2WD mm (in)	502.5 (19.8)	494.2 (19.5) LWB: 491.3 (19.3)		516.8 (20.4)	—
	4WD mm (in)	519.4 (20.5)	510.6 (20.1) LWB: 509.3 (20.1)		—	533.6 (21.0) LWB: 530.3 (20.9)
Step-in Height - Rear	2WD mm (in)	515.5 (20.3)	506.9 (20.0) LWB: 502.7 (19.8)		529.2 (20.8)	—
	4WD mm (in)	531.1 (20.9)	522.3 (20.6) LWB: 519.4 (20.4)		—	545.3 (21.5) LWB: 541.1 (21.3)

EXTERIOR MEASUREMENTS				
Item	Model→	King Cab®		
	Grade→	S	SV	PRO-4X
	Engine→	VQ38DD (3.8L)		
Vehicle Height (pg. 219)	2WD mm (in)	1,815.6 (71.5)	1,807.6 (71.2)	—
	4WD mm (in)	1,831.5 (72.1)	1,823.5 (71.8)	1,845.8 (72.7)
Wheel Type (pg. 444)	2WD mm (in)	16 x 7JJ Styled Steel	Optional: 17 x 7.5J Alloy	17 x 7.5J Alloy
	4WD mm (in)	16 x 7JJ Styled Steel		17 x 7.5J Alloy
Wheelbase (pg. 219)	mm (in)	3,200.0 (126.0)		
Front Track Width	mm (in)	1,570.0 (61.8)		
Rear Track Width	mm (in)	1,570.0 (61.8)		
Turning Diameter - Wall-to-Wall (pg. 443)	2WD mm (in)	13,686.8 (538.8)		
	4WD mm (in)	13,607.9 (535.8)		
Vehicle Length (pg. 219)	mm (in)	5,338.1 (210.2)		
Front Overhang (pg. 219)	mm (in)	892.3 (35.1)		
Rear Overhang (pg. 219)	mm (in)	1,245.9 (49.1)		
Door Opening Height - Maximum Clearance (pg. 217)	Without Door Seal mm (in)	1,109.9 (43.7)		
	With Door Seal mm (in)	1,116.9 (44.0)		
Door Opening Width - Maximum Clearance (pg. 217)	Without Door Seal mm (in)	1,321.4 (52.0)		
	With Door Seal mm (in)	1,328.4 (52.3)		

EXTERIOR MEASUREMENTS				
Item	Model→	King Cab®		
	Grade→	S	SV	PRO-4X
	Engine→	VQ38DD (3.8L)		
Bed Interior Height (pg. 225)	2WD mm (in)	494.0 (19.4)		
	4WD mm (in)			
Tailgate Opening Width - Maximum Clearance (pg. 225)	mm (in)	1,491.0 (58.7)		
Vehicle Width - Without Mirrors (pg. 219)	mm (in)	1,853.5 (73.0)		
Minimum Ground Clearance	2WD mm (in)	199.2 (7.8)	191.2 (7.5)	—
	4WD mm (in)	204.6 (8.1)	196.6 (7.7)	219.6 (8.6)
Step-in Height - Front	2WD mm (in)	502.5 (19.8)	494.5 (19.5)	—
	4WD mm (in)	519.4 (20.6)	511.6 (20.1)	534.6 (21.0)
Step-in Height - Rear	2WD mm (in)	546.9 (21.5)	538.9 (21.2)	—
	4WD mm (in)	562.9 (22.2)	555.2 (21.9)	578.2 (22.8)

BODY DIMENSIONS

PASSENGER COMPARTMENT

**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.

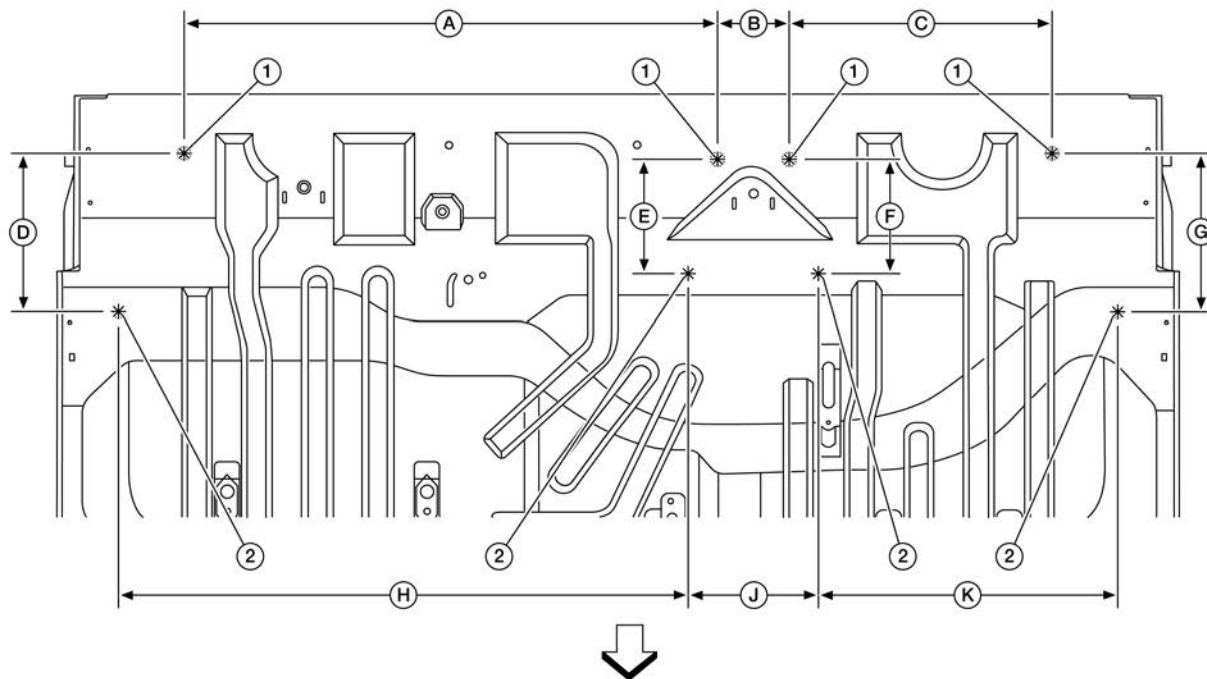
The front passenger seat is equipped with seat weight sensors as part of the supplemental restraints occupant classification system. The occupant classification sensors (weight sensors) are on the seat cushion frame under the front passenger seat and are designed to detect an occupant and objects on 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.

Rear Seat Mounting Holes

**WARNING:**

Do not modify the LATCH (Lower Anchors and Tethers for Children) system or make any other modifications to the vehicle or seats that would interfere with the proper operation of the LATCH system. Doing so may result in serious injury or death of a child in a collision.

Rear Seat Mounting Hole Dimensions — Crew Cab



TGAAZIA0217ZZ

↖: Front of vehicle.

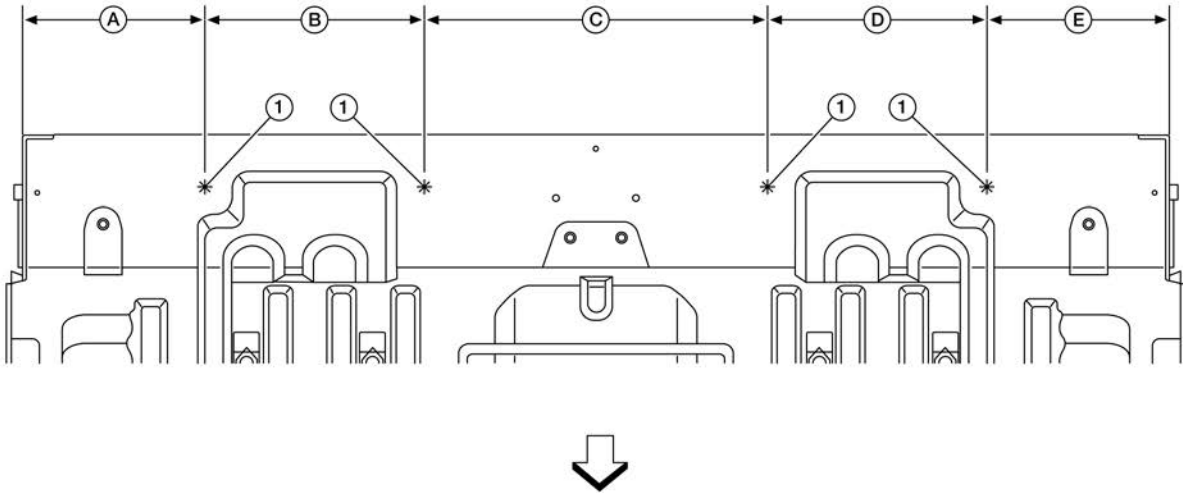
1. Seat mounting locator studs	2. Seat mounting weld nuts	A. 709.5 mm (28.0 in)
B. 95.0 mm (3.7 in)	C. 349.5 mm (13.8 in)	D. 203.9 mm (8.0 in)*
E. 144.5 mm (5.7 in)*	F. 145.4 mm (5.7 in)*	G. 203.9 mm (8.0 in)*
H. 758.0 mm (29.8 in)	J. 173.0 mm (6.8 in)	K. 398.0 mm (15.7 in)

NOTE:

For complete removal and installation procedure of the rear seats, refer to the SE section in the service manual.

***1:** Measurements from tip of locating stud to center of weld nut.

Rear Seat Mounting Hole Dimensions — King Cab®



TGAAZIA0219ZZ

↩: Front of vehicle.

1. Seat mounting weld nuts	A. 232.5 mm (9.2 in)	B. 276.2 mm (10.9 in)*
C. 431.0 mm (17.0 in)*	D. 276.2 mm (10.9 in)*	E. 232.5 mm (9.2 in)

NOTE:

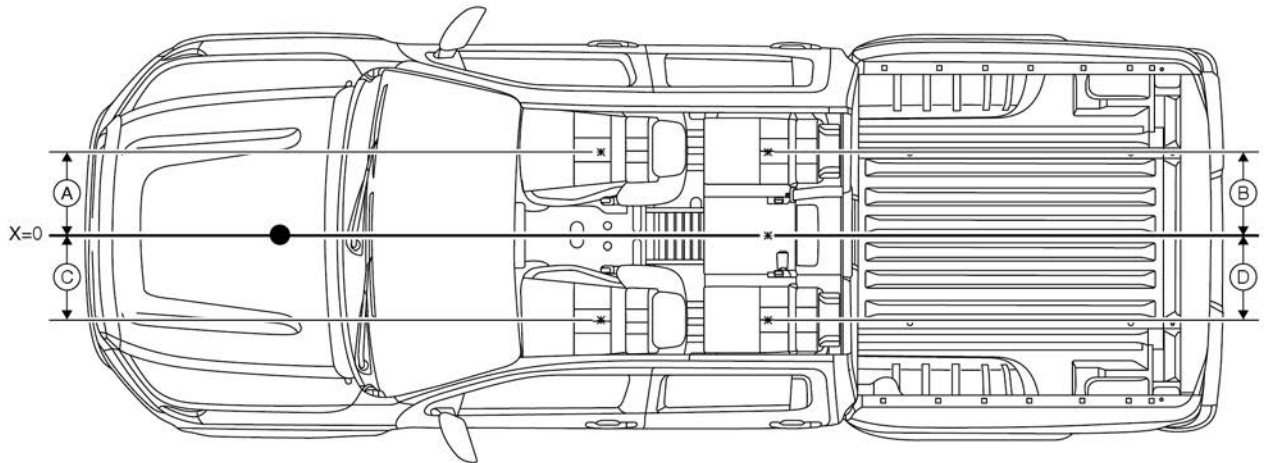
For complete removal and installation procedure of the rear seats, refer to the SE section in the service manual.

*1: Measurements from center of weld nut to center of weld nut.

Seat Position Diagrams

SgRP Seat Dimensions

Crew Cab



TGAAZIA0221ZZ

NOTE:**Front and rear seats.**

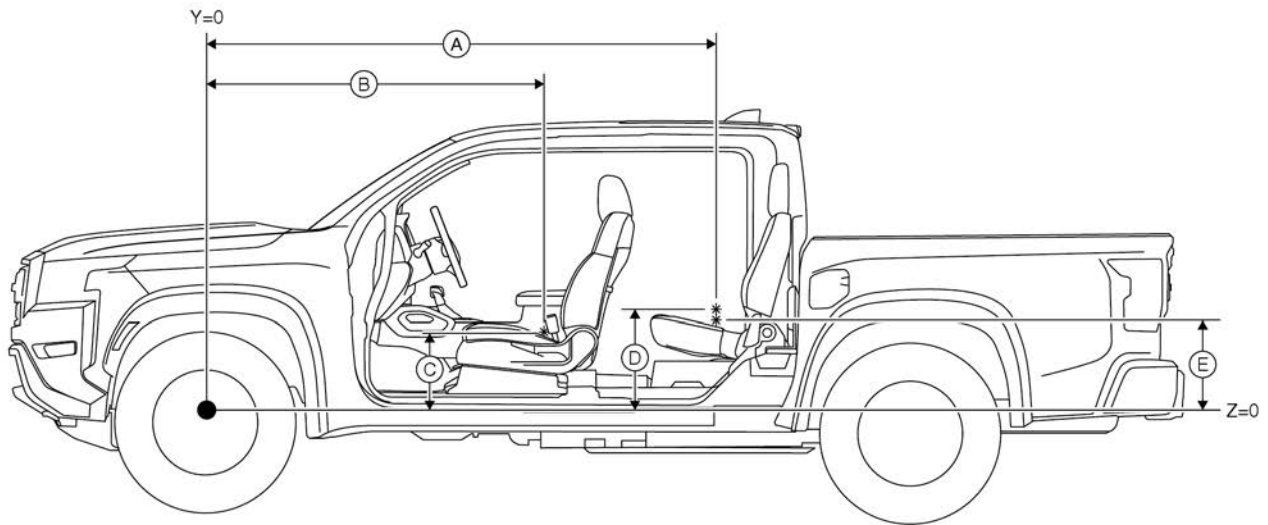
* = SgRP

A. -395.0 mm (-15.6 in)

B. -390 mm (-15.4 in)

C. 395.0 mm (15.6 in)

D. 390 mm (15.4 in)



TGAAZIA0223ZZ

* = SgRP

A. 2,317.0 mm (91.2 in),
LH, RH and Center seats

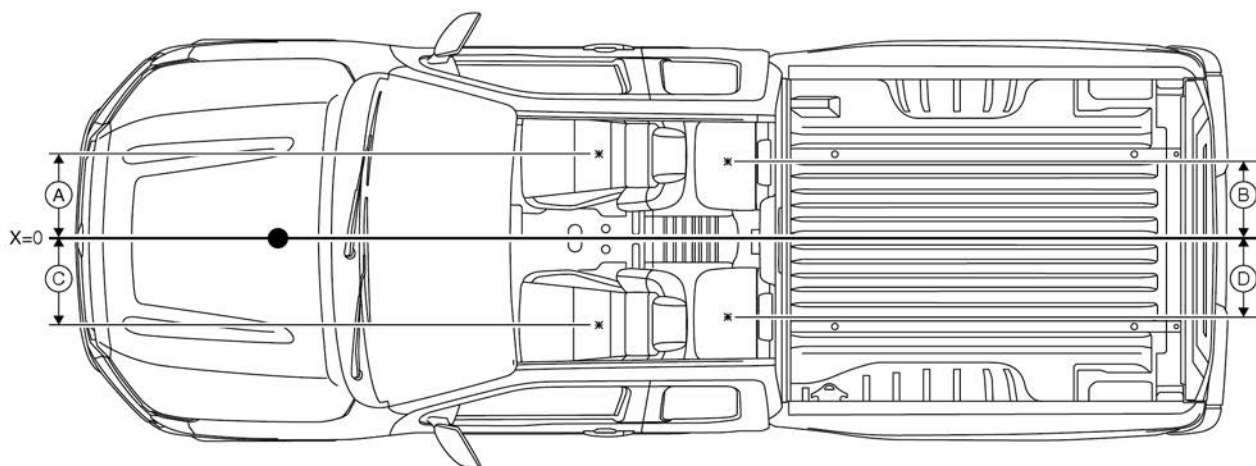
D. 384.0 mm (15.1 in),
Center seat

B. 1,532.0 mm (60.3 in),
LH and RH seats

E. 365.0 mm (14.4 in),
LH and RH seats

C. 332.2 mm (13.1 in),
LH and RH seats

King Cab®



TGAAZIA0222ZZ

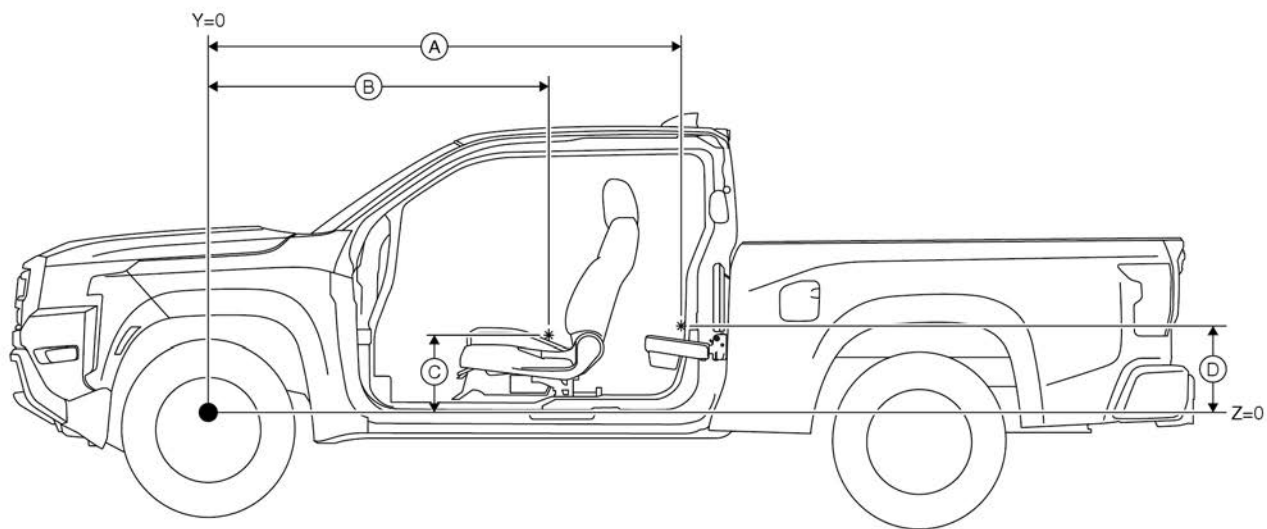
* = SgRP

A. -395.0 mm (-15.6 in)

B. -360.0 mm (-14.2 in)

C. 395.0 mm (15.6 in)

D. 360.0 mm (14.2 in)



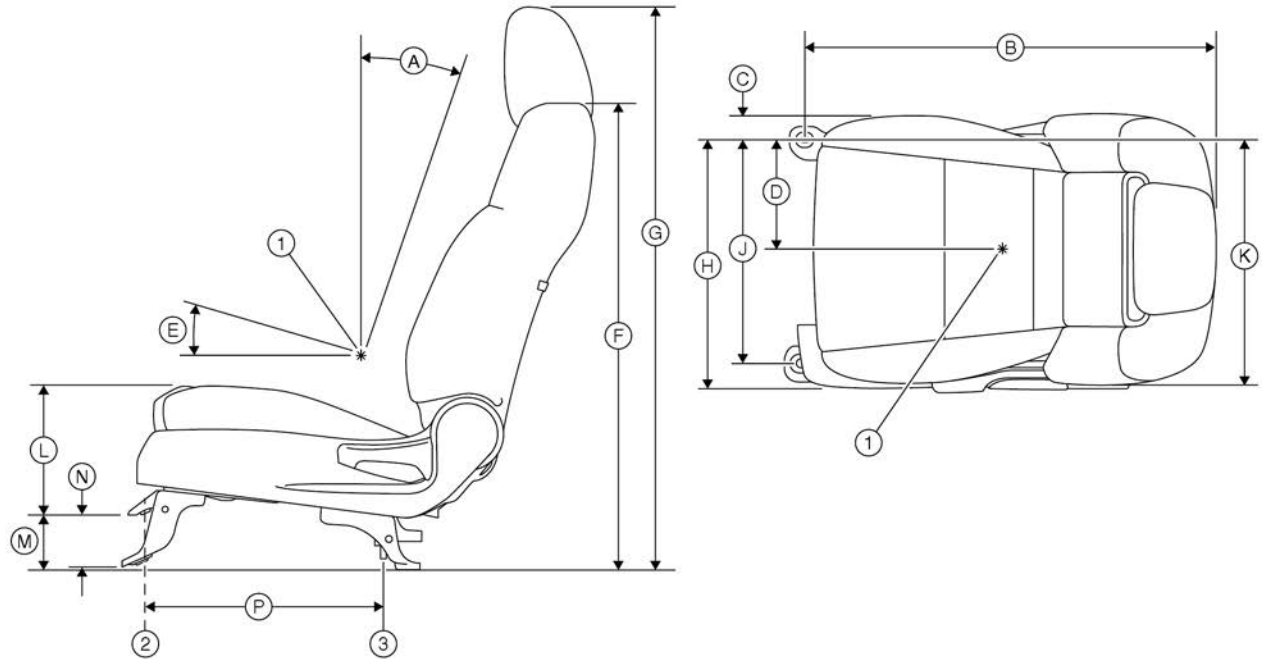
TGAAZIA0224ZZ

* = SgRP

A. 2,129.0 mm (83.8 in),
LH and RH seatsB. 1,532.0 mm (60.3 in),
LH and RH seatsC. 332.2 mm (13.1 in),
LH and RH seatsD. 375.0 mm (14.8 in),
LH and RH seats

All Cab Styles

LH Power/Manual Track Front Seat



TGAAZIA0225ZZ

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

1. SgRP

X = 395.0 mm (15.6 in)
 Y = 1,532.0 mm (60.3 in)
 Z = 332.2 mm (13.1 in)

2. Center of inboard front mounting bolt hole

3. Center of inboard mounting locator pin

A. Torso angle = 21°

B. 786.9 mm (31.0 in)

C. 47.6 mm (1.9 in)

D. 216.3 mm (8.5 in)

E. Cushion angle = 13.5°

F. 825.4 mm (32.5 in)

G. 996.2 mm (39.2 in)

H. 478.2 mm (18.8 in)

J. 434.6 mm (17.1 in)

K. 478.8 mm (18.9 in)

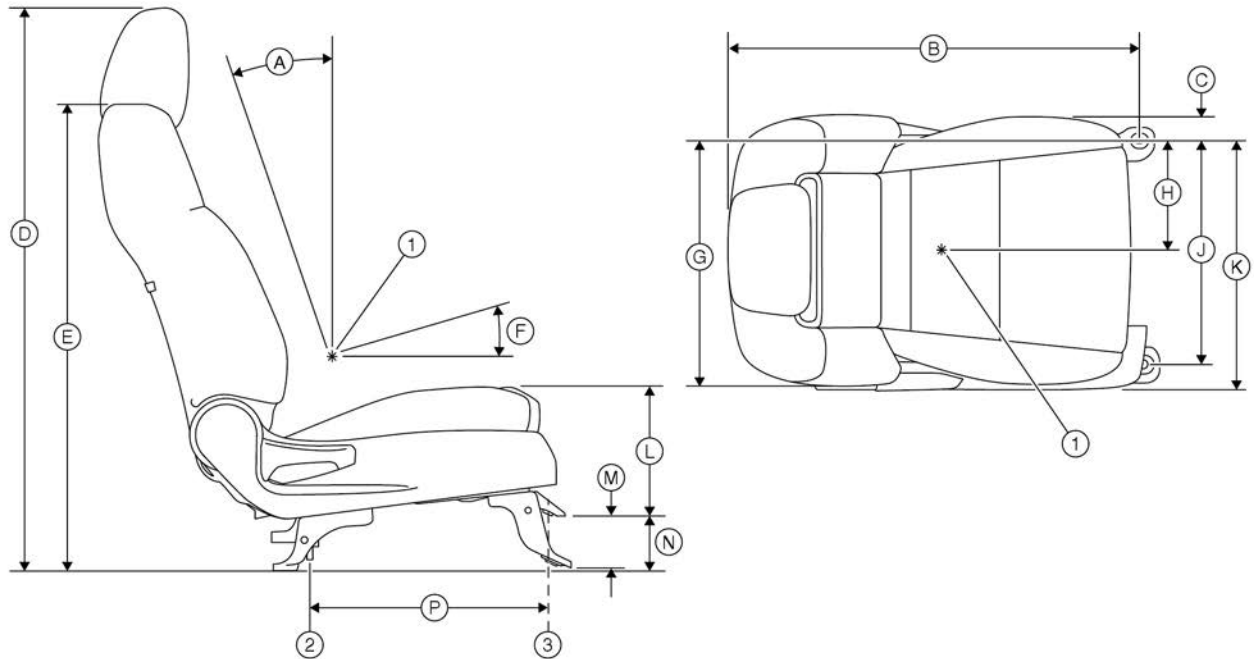
L. 295.6 mm (11.6 in)

M. 135.9 mm (5.4 in)

N. 128.0 mm (5.0 in)

P. 416.7 mm (16.4 in)

RH Manual Track Front Seat



TGAAZIA0226ZZ

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

1. SgRP

X = -395.0 mm (15.6 in)

Y = 1,532.0 mm (60.3 in)

Z = 332.2 mm (13.1 in)

2. Center of inboard front
mounting bolt hole3. Center of inboard mounting
locator pin

A. Torso angle = 21°

B. 786.9 mm (31.0 in)

C. 476 mm (1.9 in)

D. 996.2 mm (39.2 in)

E. 825.4 mm (32.5 in)

F. Cushion angle = 13.5°

G. 478.8 mm (18.9 in)

H. 216.3 mm (8.5 in)

J. 434.6 mm (17.1 in)

K. 478.2 mm (18.8 in)

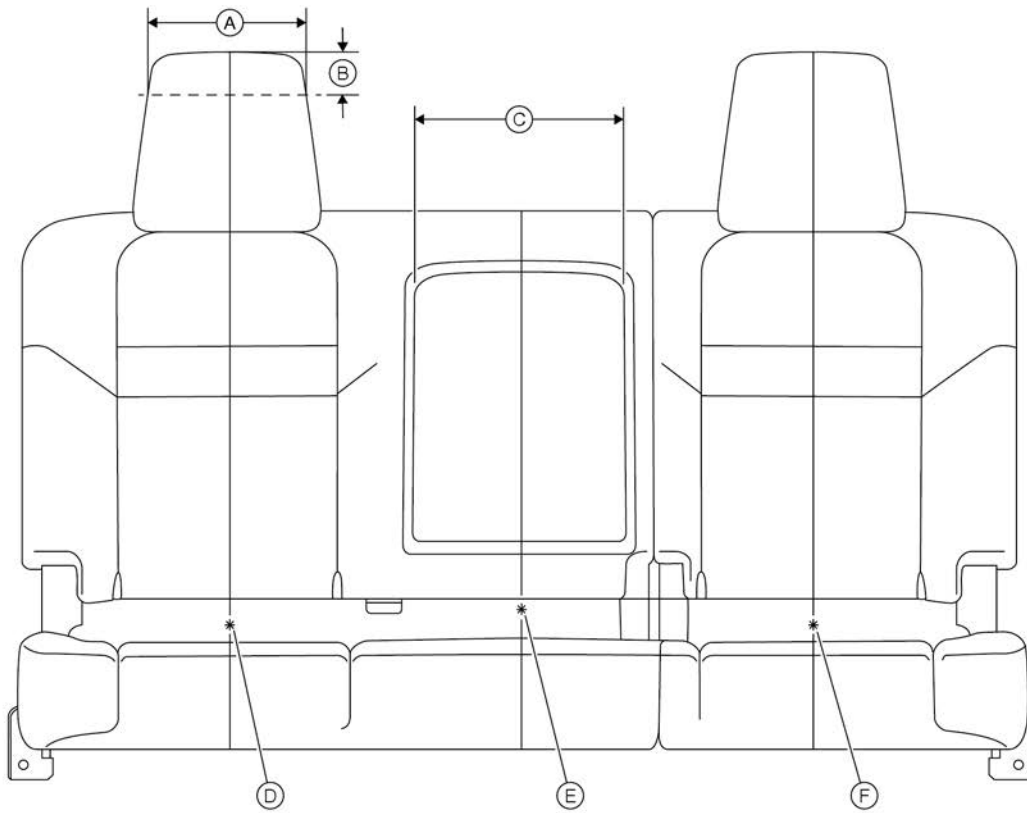
L. 295.6 mm (11.6 in)

M. 128.0 mm (5.0 in)

N. 135.9 mm (5.4 in)

P. 416.7 mm (16.4 in)

SgRP Rear Seat Dimensions — Crew Cab



TGAAZIA0230ZZ

A. 221.9 mm (8.7 in)

B. 65 mm (2.56 in)

C. 280.5 mm (11.0 in)

D. X = -390.0 mm (-15.4 in)

E. X = 0 mm (0 in)

F. X = 390.0 mm (-15.4 in)

Y = 2,317.0 mm (91.2 in)

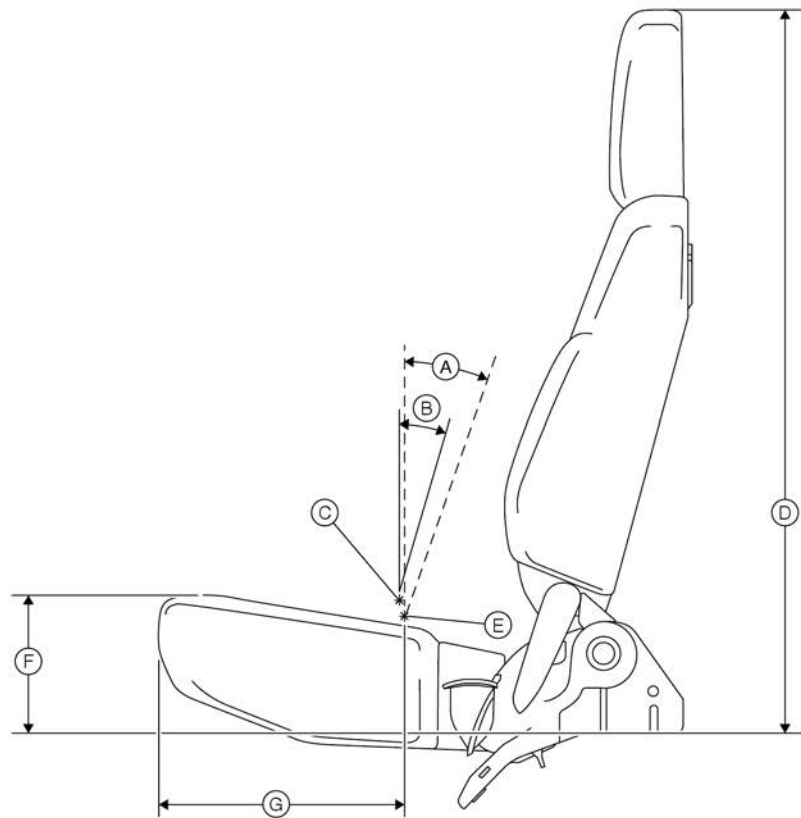
Y = 2,317.0 mm (91.2 in)

Y = 2,317.0 mm (91.2 in)

Z = -365.0 mm (14.4 in)

Z = 384.0 mm (15.1 in)

Z = 365.0 mm (14.4 in)



TGAAZIA0231ZZ

A. Torso angle = 19°
(LH and RH seats)

B. Torso angle = 10°
(center seat)

C. X = 0 mm (0 in)
Y = 2,317.0 mm (91.2 in)
Z = 384.0 mm (15.1 in)
(Center seat)

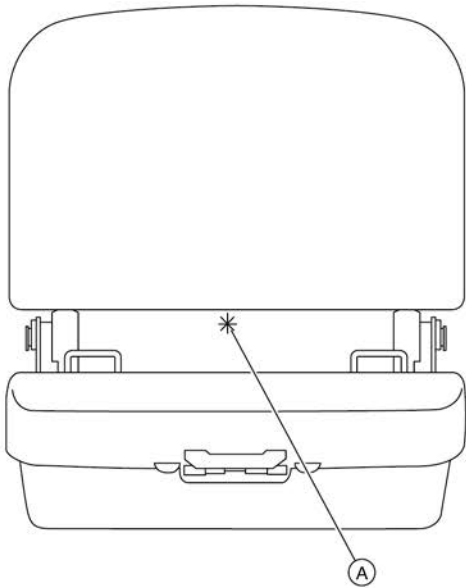
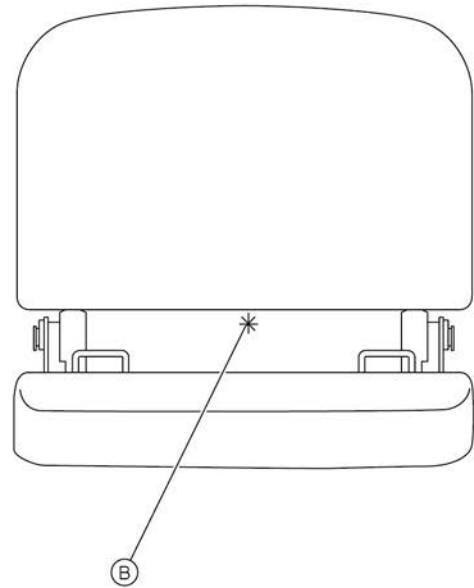
D. 850.9 mm (33.5 in)

E. X: 390.0 mm (15.4 in) (LH),
-390.0 mm (-15.4 in) (RH)
Y: 2,317.0 mm (91.2 in)
Z: 365.0 mm (14.4 in)

F. 161.7 mm (6.4 in)

G. 290.4 mm (11.4 in)

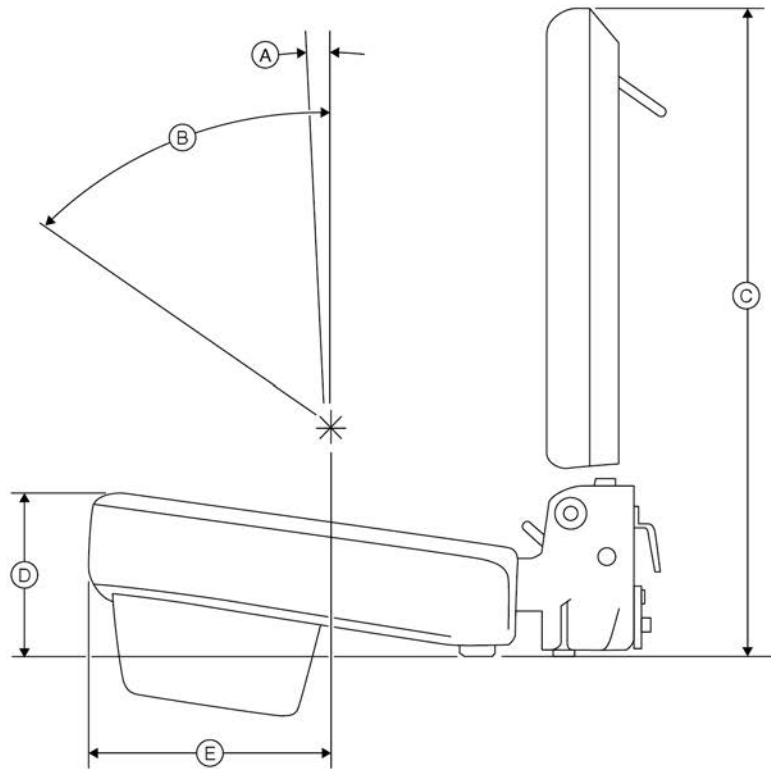
SgRP Rear Seat Dimensions — King Cab®



TGAAZIA0232ZZ

A. X = -360 mm (-14.2 in)
Y = 2,129.0 mm (83.8 in)
Z = 375.0 mm (14.8 in)

B. X = 360 mm (14.2 in)
Y = 2,129.0 mm (83.8 in)
Z = 375.0 mm (14.8 in)



TGAAZIA0233ZZ

A. Torso angle = 2°
(LH and RH seats)

B. Hip angle = 58.4°

C. 429.9 mm (16.9 in)

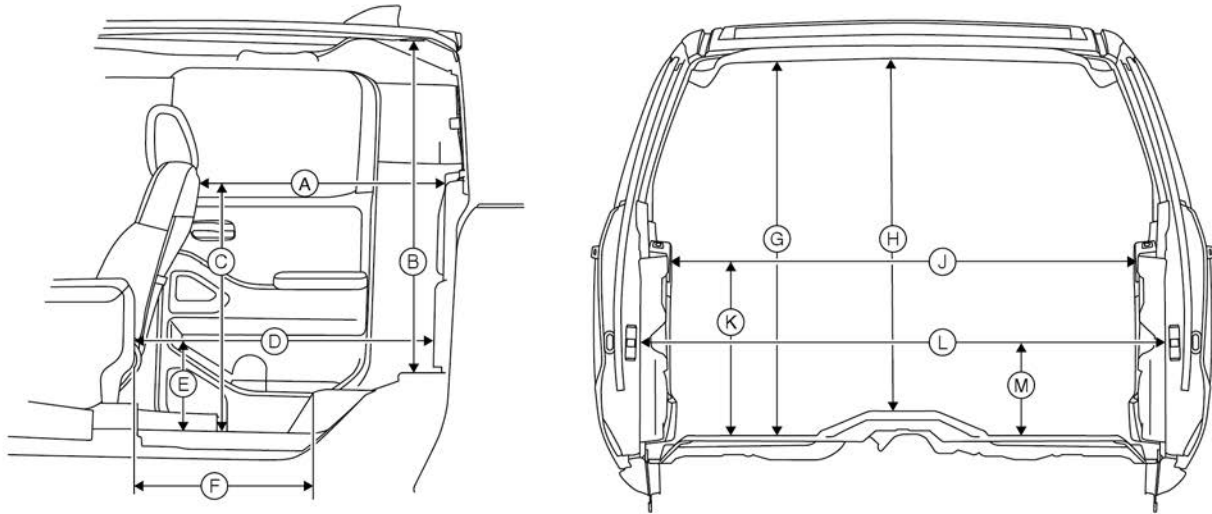
D. 108.3 mm (4.3 in)

E. 162.4 mm (6.4 in)

CARGO AREA

Interior Dimensions—Crew Cab

Overall



TGAAZIA0234ZZ

A. Maximum cargo length behind front seat back (full upright position):

- Rear-most seat position: 845.8 mm (33.3 in)
- Front-most seat position: 1,054.1 mm (41.5 in)

D. Maximum cargo length behind center console: 947.4 mm (37.3 in)

G. Maximum cargo height:

- With moonroof: 1,117.6 mm (44.0 in)
- Without moonroof: 1,176.7 mm (46.3 in)

K. Reference height from floor: 469.9 mm (18.5 in)

B. Height at rear: 1,003.3 mm (39.5 in)

E. Reference height from floor: 342.9 mm (13.5 in)

H. Maximum cargo height:

- With moonroof: 1,082.0 mm (42.6 in)
- Without moonroof: 1,133.8 mm (44.6 in)

L. Maximum cargo width between C-pillars: 1,485.9 mm (58.5 in)

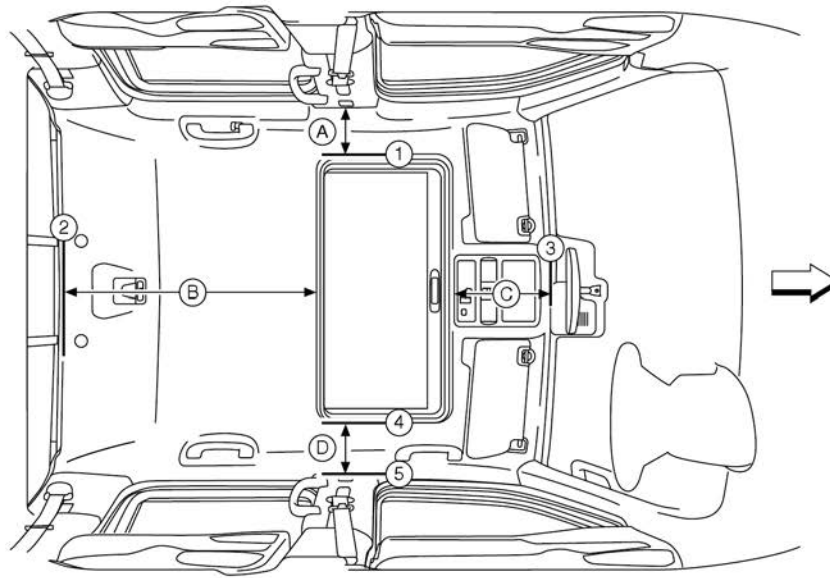
C. Reference height from floor: 723.9 mm (28.5 in)

F. Maximum cargo length at floor behind seat: 571.5 mm (22.5 in)

J. Maximum cargo width between rear door arm rests: 1,346.2 mm (53.0 in)

M. Reference height from floor: 101.6 mm (4.0 in)

Moonroof



TGAAZIA0236ZZ

↔: Front of vehicle.

1. Reference point: Inside edge of center pillar upper finisher at headlining

2. Reference point: Rear window glass trim edge

3. Reference point: Headlining edge at windshield

4. Reference point: headlining edge at moonroof

5. Reference point: Inside edge of center pillar upper finisher at headlining

A. 196.0 mm (7.7 in)

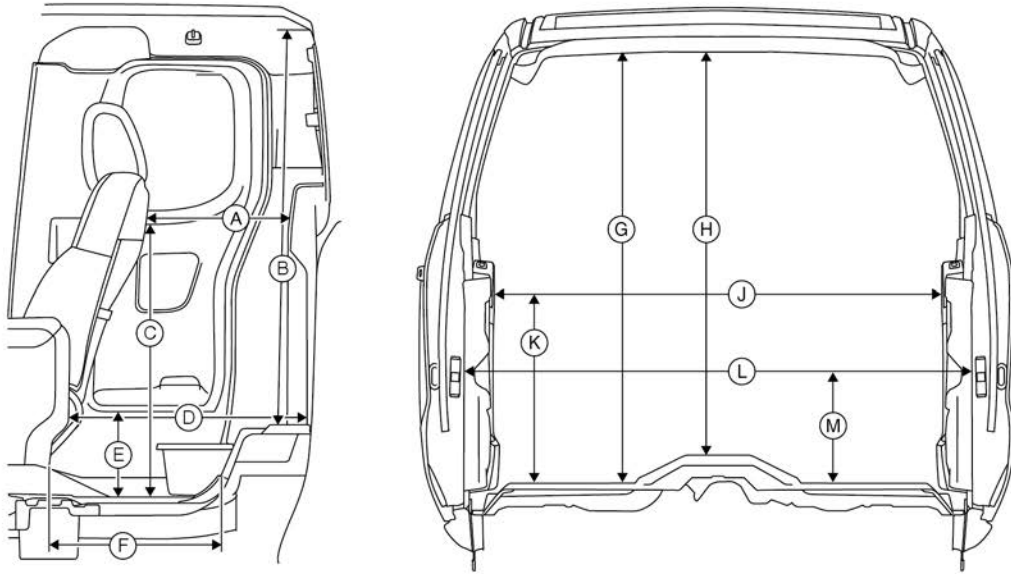
B. 864.0 mm (34.0 in)

C. 388.6 mm (15.3 in)

D. 196.0 mm (7.7 in)

Interior Dimensions—King Cab®

Overall



TGAAZIA0237ZZ

A. Maximum cargo length behind front seat back (full upright position):

- Rear-most seat position: 401.3 mm (15.8 in)
- Front-most seat position: 617.2 mm (24.3 in)

D. Maximum cargo length behind center console: 464.8 mm (18.3 in)

G. Maximum cargo height: 1,150.6 mm (45.3 in)

K. Reference height from floor: 723.9 mm (28.5 in)

B. Height at rear: 965.2 mm (38.0 in)

E. Reference height from floor: 304.8 mm (12.0 in)

H. Maximum cargo height: 1,112.5 mm (43.8 in)

L. Maximum cargo width between rear pillars: 1,320.8 mm (52.0 in)

C. Reference height from floor: 660.4 mm (26.0 in)

F. Maximum cargo length at floor behind seat:

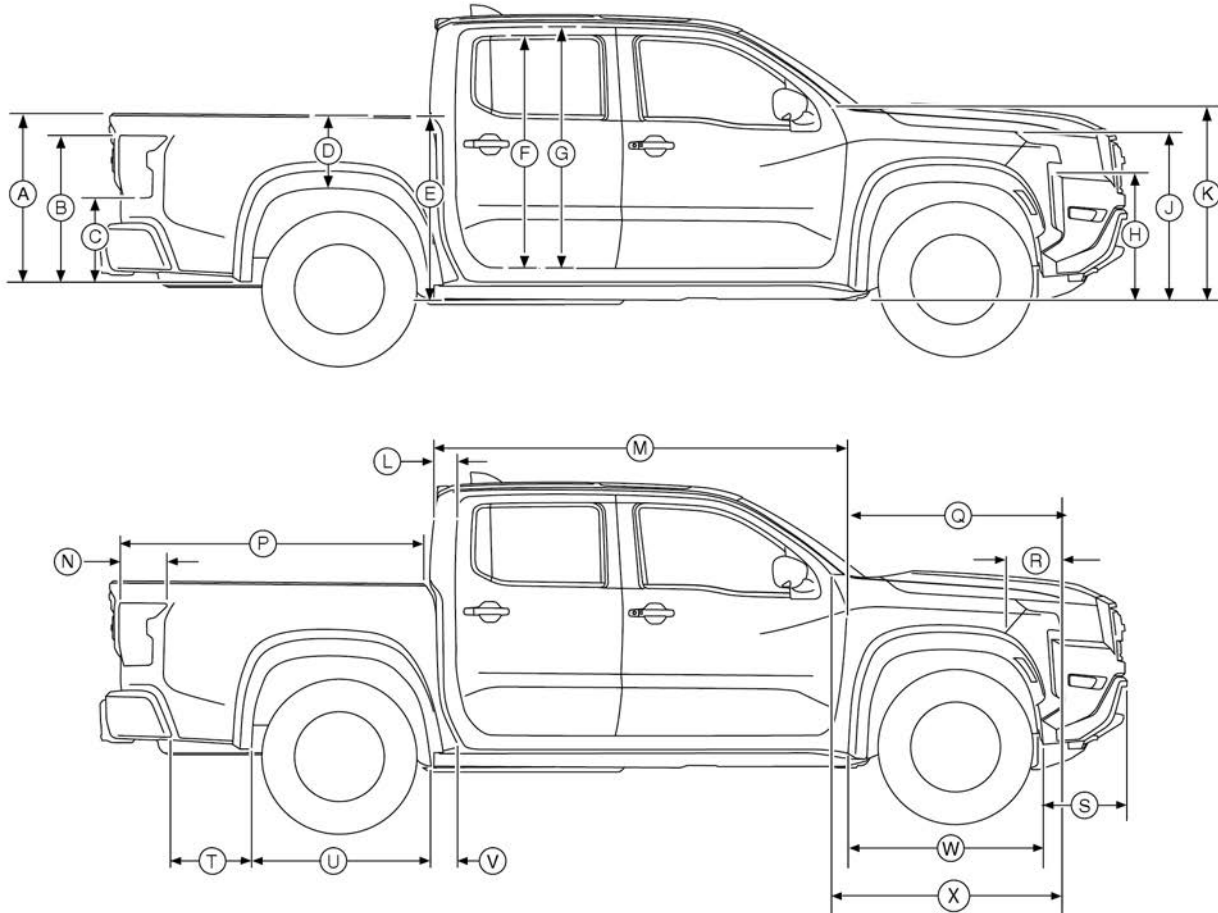
- Front-most seat position: 558.8 mm (22.0 in)
- Rear-most seat position: 355.6 mm (14.0 in)

J. Maximum cargo width between rear door trim panels: 1,358.9 mm (53.5 in)

M. Reference height from floor: 406.4 mm (16.0 in)

SIGN AREA – CREW CAB

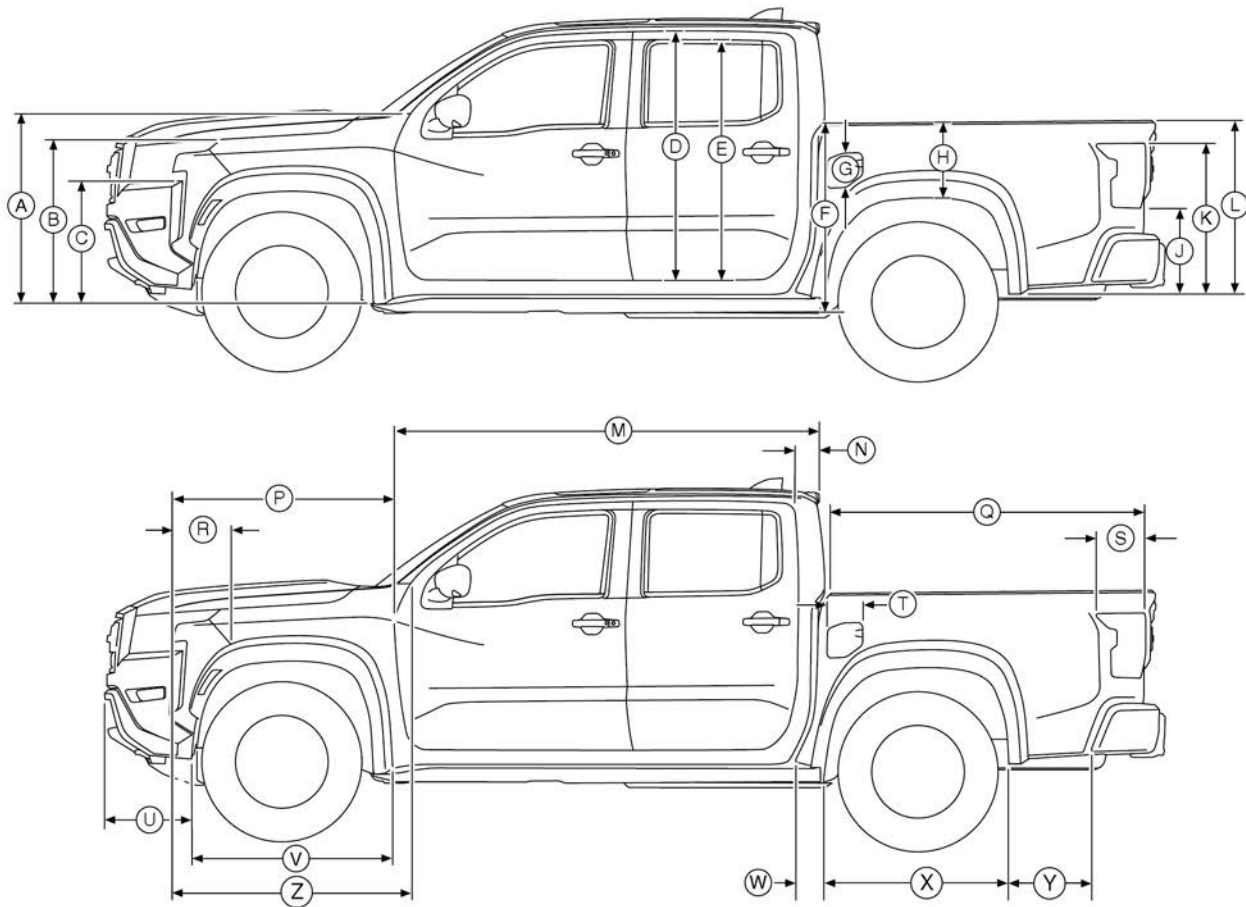
RH Exterior Dimensions



TGAZIA0238ZZ

A. 914.4 mm (36.0 in)	B. 800.1 mm (31.5 in)	C. 482.6 mm (19.0 in)
D. 482.6 mm (19.0 in)	E. 889.0 mm (35.0 in)	F. 1,270.0 mm (50.0 in)
G. 1,346.2 mm (53.0 in)	H. 673.1 mm (26.5 in)	J. 1,066.8 mm (42.0 in)
K. 1,150.6 mm (45.3 in)	L. 139.7 mm (5.5 in)	M. 2,171.7 mm (85.5 in)
N. 315.0 mm (12.4 in)	P. 1,625.6 mm (64.0 in)	Q. 1,155.7 mm (45.5 in)
R. 330.2 mm (13.0 in)	S. 444.3 mm (17.5 in)	T. 469.9 mm (18.5 in)
U. 1,041.4 mm (41.0 in)	V. 165.1 mm (6.5 in)	W. 1,003.3 mm (39.5 in)
X. 1,219.2 mm (48.0 in)		

LH Exterior Dimensions



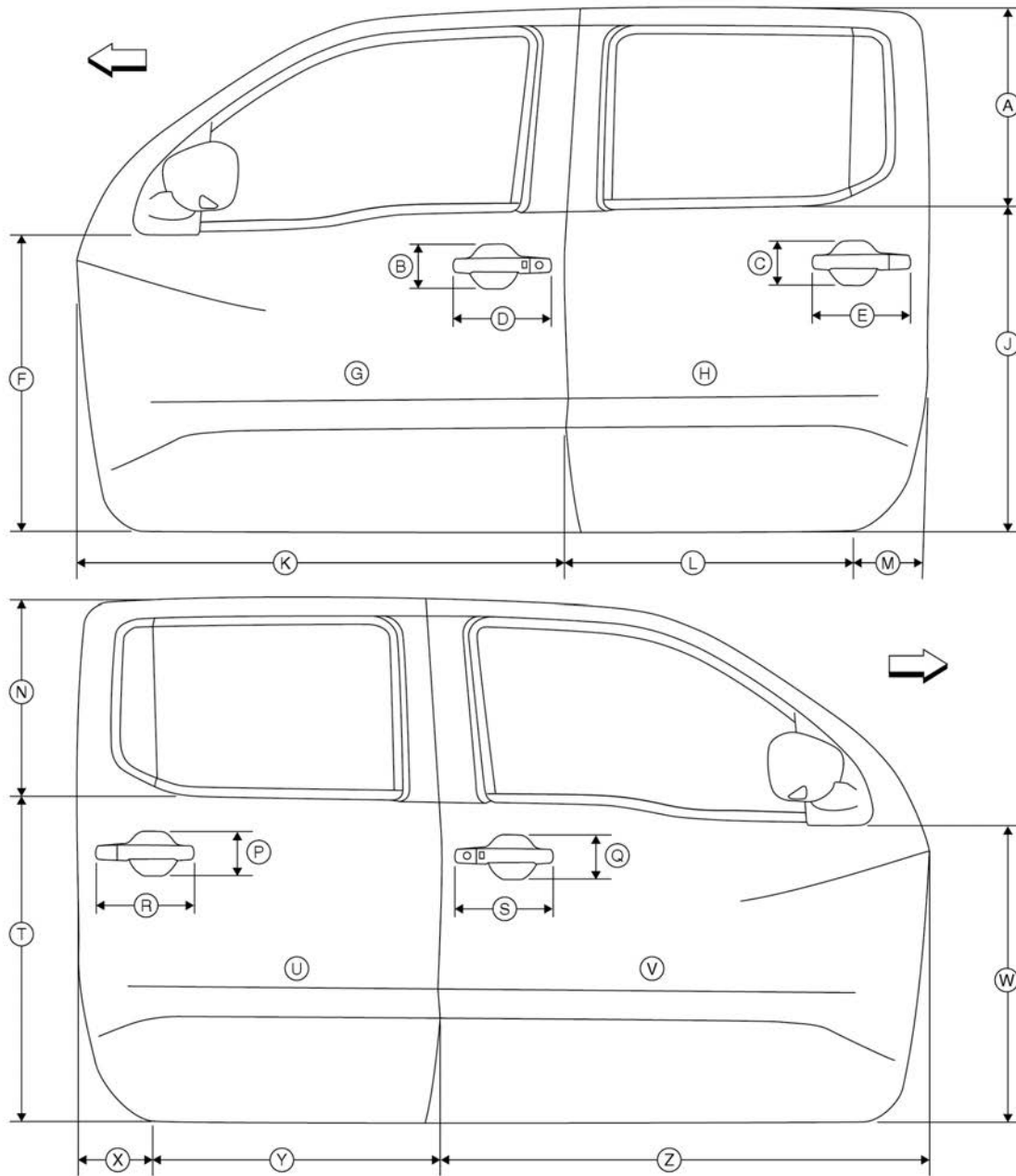
TGAAZIA0239ZZ

A. 1,150.6 mm (45.3 in)
 D. 1,346.2 mm (53.0 in)
 G. 185.4 mm (7.3 in)
 K. 800.1 mm (31.5 in)
 N. 139.7 mm (5.5 in)
 R. 330.2 mm (13.0 in)
 U. 444.3 mm (17.5 in)
 X. 1,041.4 mm (41.0 in)

B. 1,066.8 mm (42.0 in)
 E. 1,270.0 mm (50.0 in)
 H. 482.6 mm (19.0 in)
 L. 914.4 mm (36.0 in)
 P. 1,155.7 mm (45.5 in)
 S. 315.0 mm (12.4 in)
 V. 1,003.3 mm (39.5 in)
 Y. 469.9 mm (18.5 in)

C. 673.1 mm (26.5 in)
 F. 889 mm (35.0 in)
 J. 482.6 mm (19.0 in)
 M. 2,171.7 mm (85.5 in)
 Q. 1,625.6 mm (64.0 in)
 T. 203.2 mm (8.0 in)
 W. 165.1 mm (6.5 in)
 Z. 1,219.2 mm (48.0 in)

Door Sign Area



TGAAZIA0240ZZ

↖: Front of vehicle.

A. 571.5 mm (22.5 in)

D. 261.6 mm (10.3 in)

G. 0.092 m² (142.6 in²)

K. 1,193.8 mm (47.0 in)

N. 571.5 mm (22.5 in)

R. 261.6 mm (10.3 in)

U. 0.061 m² (94.6 in²)

X. 94.0 mm (3.7 in)

B. 119.4 mm (4.7 in)

E. 261.6 mm (10.3 in)

H. 0.061 m² (94.6 in²)

L. 685.8 mm (27.0 in)

P. 119.4 mm (4.7 in)

S. 261.6 mm (10.3 in)

V. 0.092 m² (142.6 in²)

Y. 685.8 mm (27.0 in)

C. 119.4 mm (4.7 in)

F. 685.8 mm (27.0 in)

J. 889.0 mm (35.0 in)

M. 94.0 mm (3.7 in)

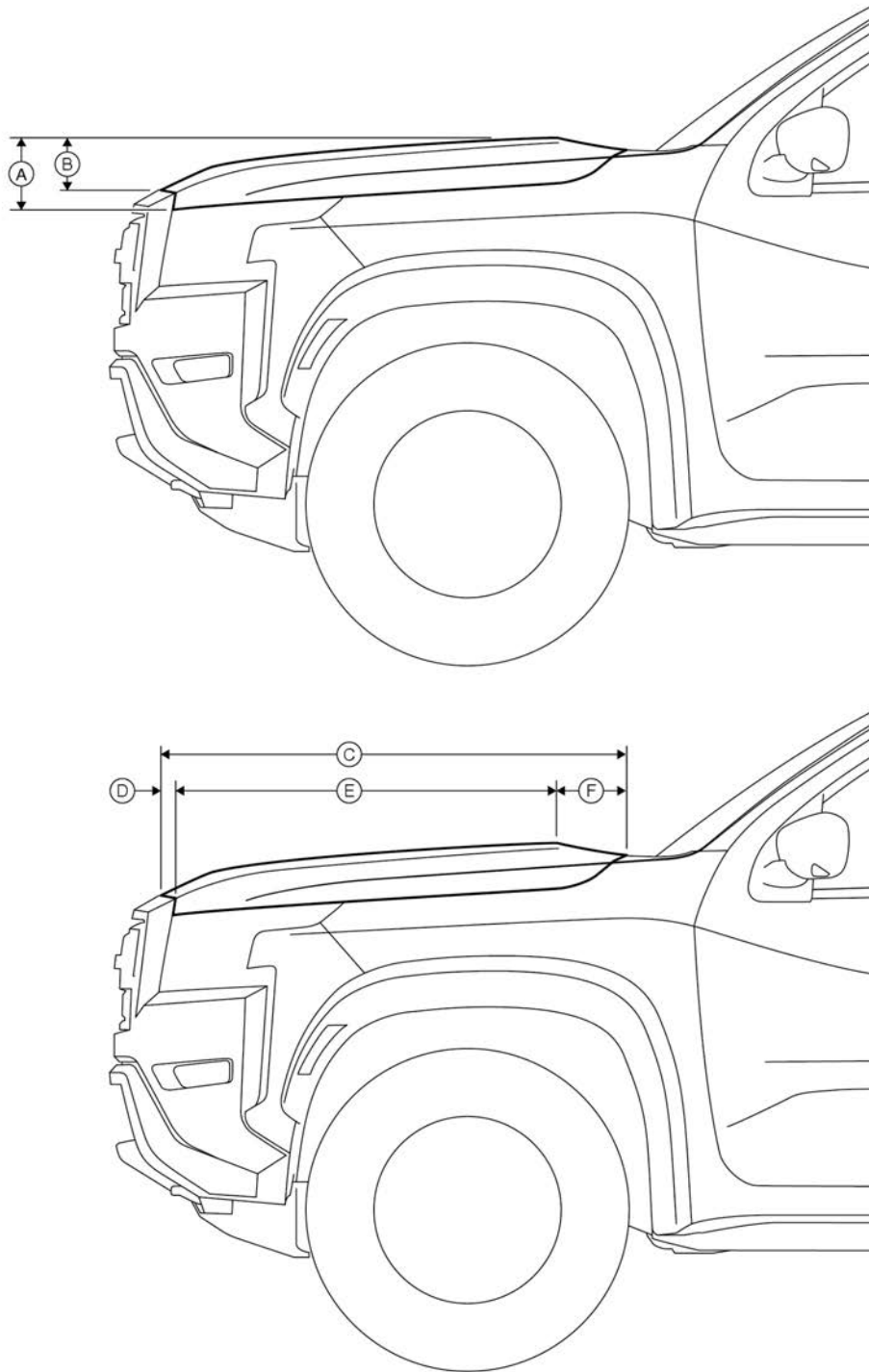
Q. 119.4 mm (4.7 in)

T. 889.0 mm (35.0 in)

W. 685.8 mm (27.0 in)

Z. 1,193.8 mm (47.0 in)

Hood Surface Exterior Dimensions



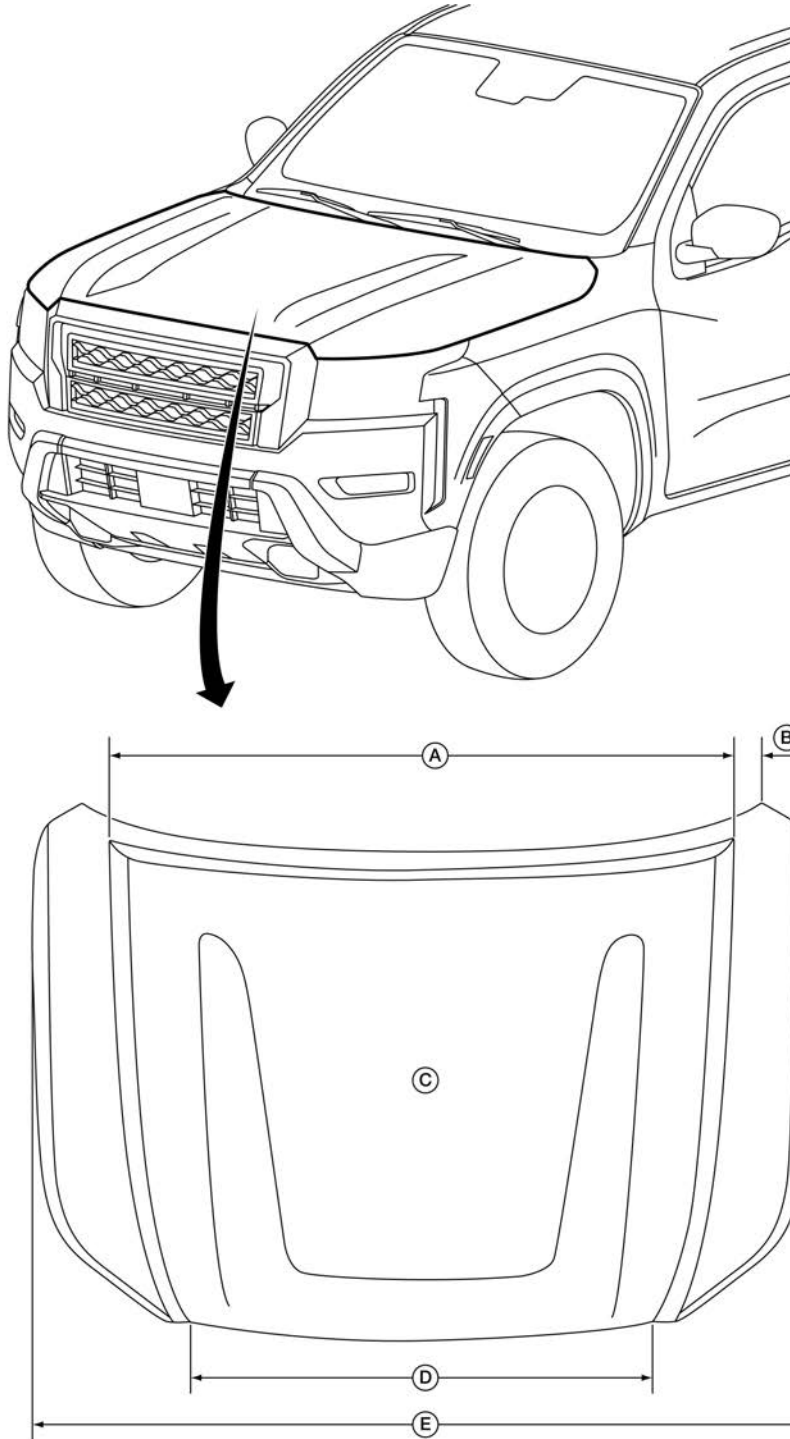
TGAAZIA0241ZZ

A. 134.6 mm (5.3 in)
D. 125.2 mm (4.9 in)

B. 76.2 mm (3.0 in)
E. 863.0 mm (34.0 in)

C. 1,041.6 mm (41.0 in)
F. 61.5 mm (2.4 in)

Hood area



TGAAZIA0242ZZ

A. 1,356.6 mm (53.4 in)

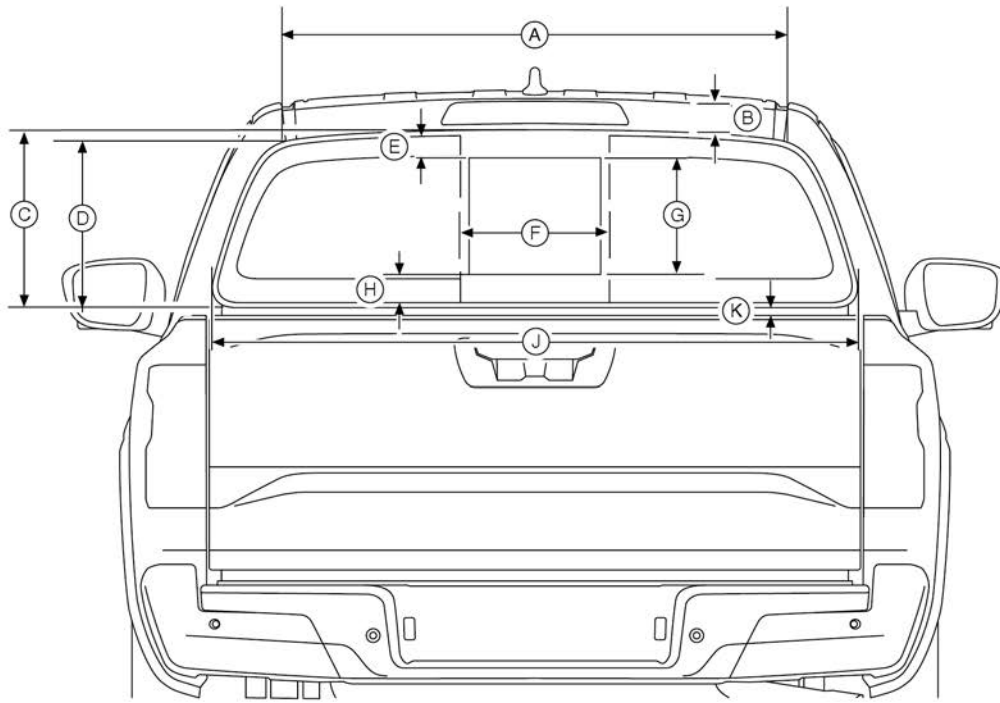
B. 103.4 mm (4.0 in)

C. Flat surface area:
1.74 m² (2,701.7 in²)

D. 1011.0 mm (39.8 in)

E. 1,675.8 mm (66.0 in)

Back Window Opening Sign Area



TGAAZIA0243ZZ

A. 1,155.7 mm (45.5 in)

B. 127.0 mm (5.0 in)

C. 419.1 mm (16.5 in)

D. 368.3 mm (14.5 in)

E. 63.5 mm (2.5 in)

F. 342.9 mm (13.5 in)

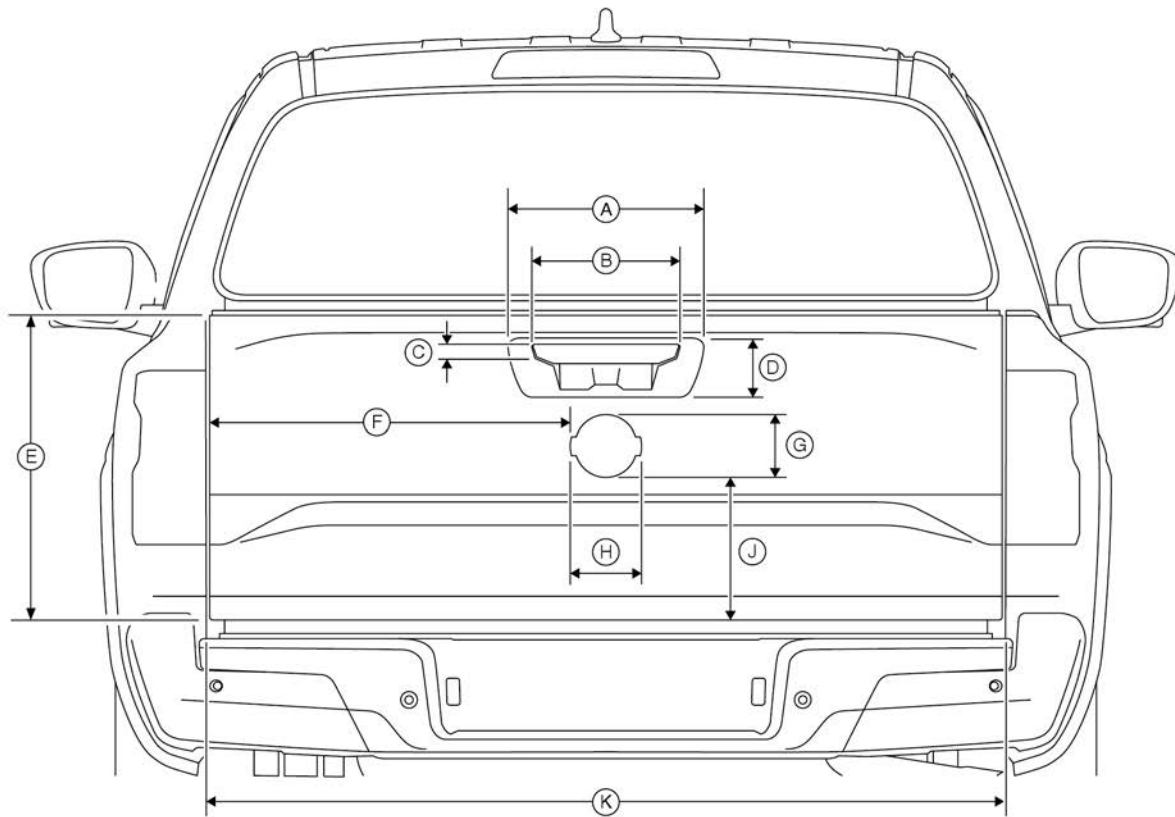
G. 266.7 mm (10.5 in)

H. 76.2 mm (3.0 in)

J. 1,480.8 mm (58.3 in)

K. 63.5 mm (2.5 in)

Tailgate Sign Area



TGAAZIA0244ZZ

A. 58.4 mm (2.3 in)

B. 279.4 mm (11.0 in)

C. 51.0 mm (2.0 in)

D. 1270 mm (5.0 in)

E. 622.3 mm (24.5 in)

F. 678.2 mm (26.7 in)

G. 1270 mm (5.0 in)

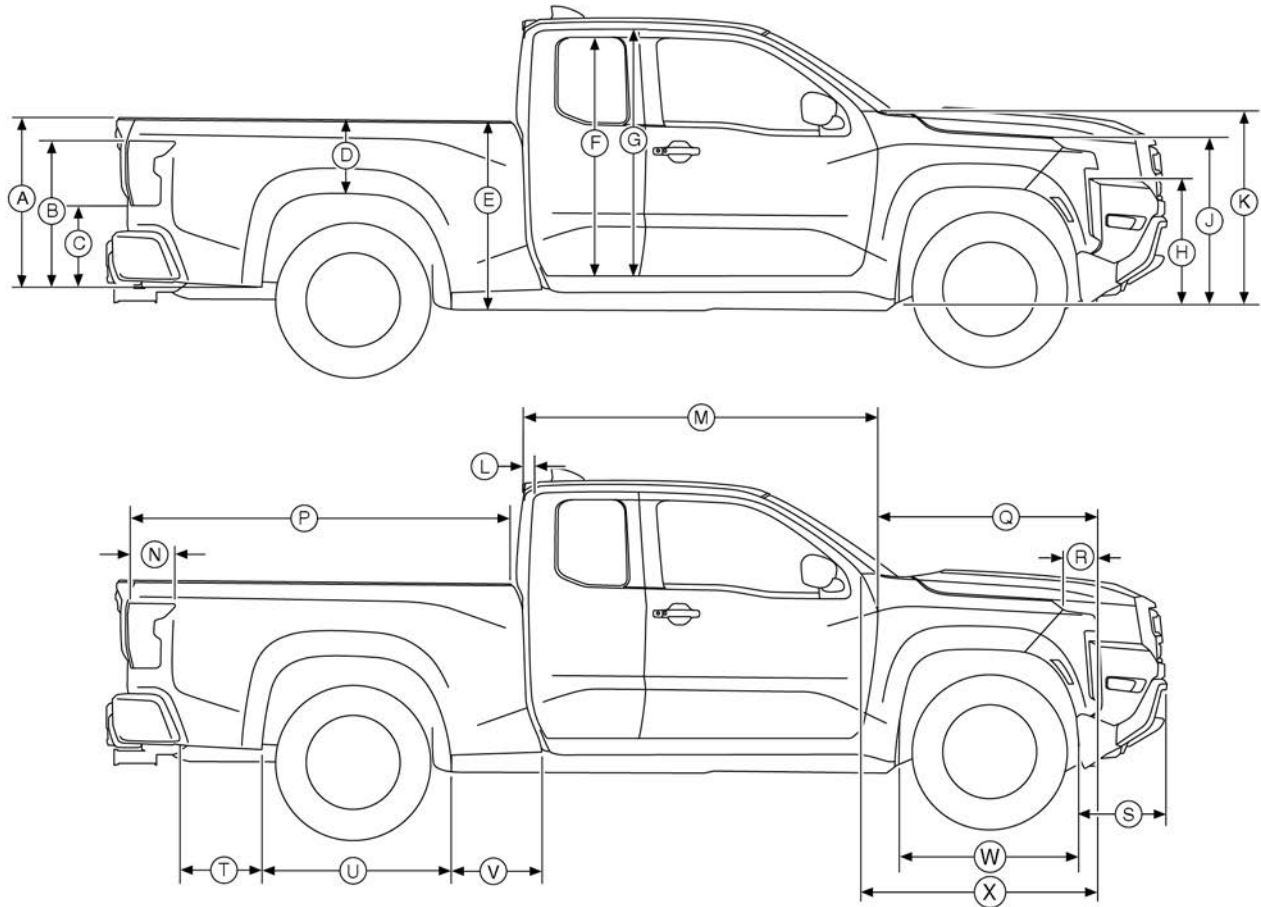
H. 158.0 mm (6.2 in)

J. 273.1 mm (10.8 in)

K. 1,511.3 mm (59.5 in)

SIGN AREA – KING CAB®

RH Exterior Dimensions



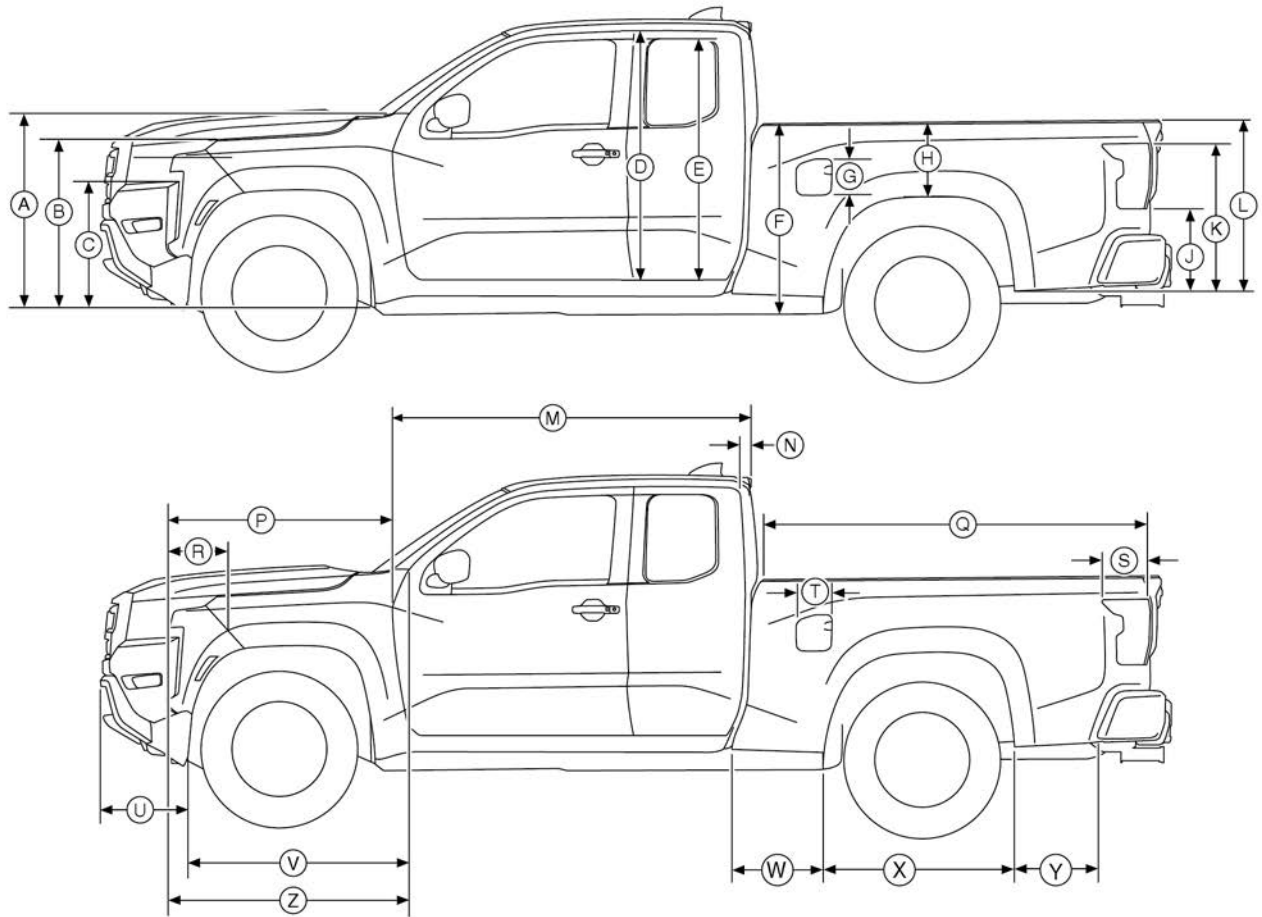
TGAZIA0229ZZ

A. 914.4 mm (36.0 in)
 D. 431.8 mm (17.0 in)
 G. 1,417.2 mm (55.8 in)
 K. 1,150.6 mm (45.3 in)
 N. 315.0 mm (12.4 in)
 R. 330.2 mm (13.0 in)
 U. 927.0 mm (36.5 in)
 X. 1,219.2 mm (48.0 in)

B. 800.1 mm (31.5 in)
 E. 927.0 mm (36.5 in)
 H. 673.1 mm (26.5 in)
 L. 76.2 mm (3.0 in)
 P. 1,905.0 mm (75.0 in)
 S. 444.3 mm (17.5 in)
 V. 495.2 mm (19.5 in)

C. 482.6 mm (19.0 in)
 F. 1,328.5 mm (52.3 in)
 J. 1,066.8 mm (42.0 in)
 M. 1,760.3 mm (69.3 in)
 Q. 1,155.7 mm (45.5 in)
 T. 431.8 mm (17.0 in)
 W. 1,003.3 mm (39.5 in)

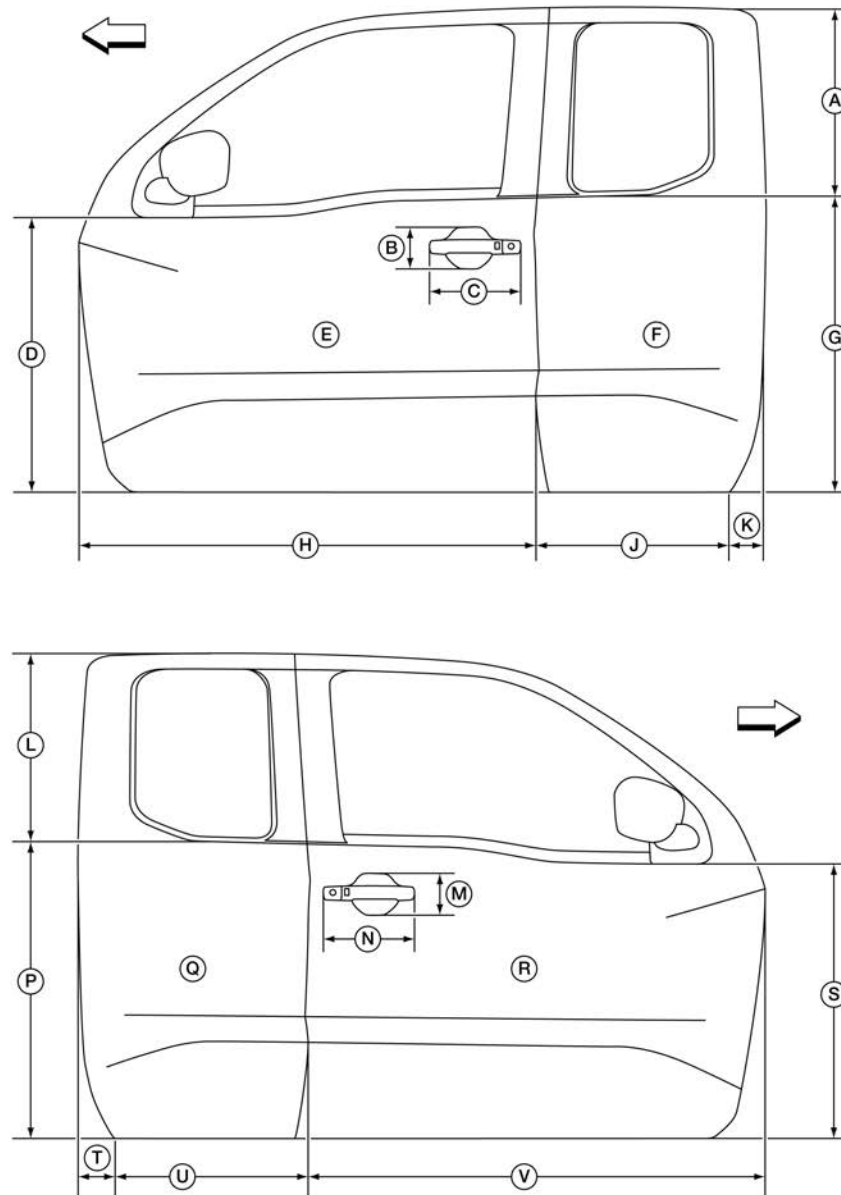
LH Exterior Dimensions



TGAZIA0258ZZ

A. 1,150.6 mm (45.3 in)	B. 1,066.8 mm (42.0 in)	C. 673.1 mm (26.5 in)
D. 431.8 mm (17.0 in)	E. 1,417.2 mm (55.8 in)	F. 927 mm (36.5 in)
G. 175.2 mm (6.9 in)	H. 431.8 mm (17.0 in)	J. 482.6 mm (19.0 in)
K. 800.1 mm (31.5 in)	L. 914.4 mm (36.0 in)	M. 1,760.0 mm (69.3 in)
N. 76.2 mm (3.0 in)	P. 1,155.7 mm (45.5 in)	Q. 1,905.0 mm (75.0 in)
R. 330.2 mm (13.0 in)	S. 315.0 mm (12.4 in)	T. 185.4 mm (7.3 in)
U. 444.3 mm (17.5 in)	V. 1,003.3 mm (39.5 in)	W. 495.2 mm (19.5 in)
X. 927.0 mm (36.5 in)	Y. 431.8 mm (17.0 in)	Z. 1,219.2 mm (48.0 in)

Door Sign Area



TGAAZIA0259ZZ

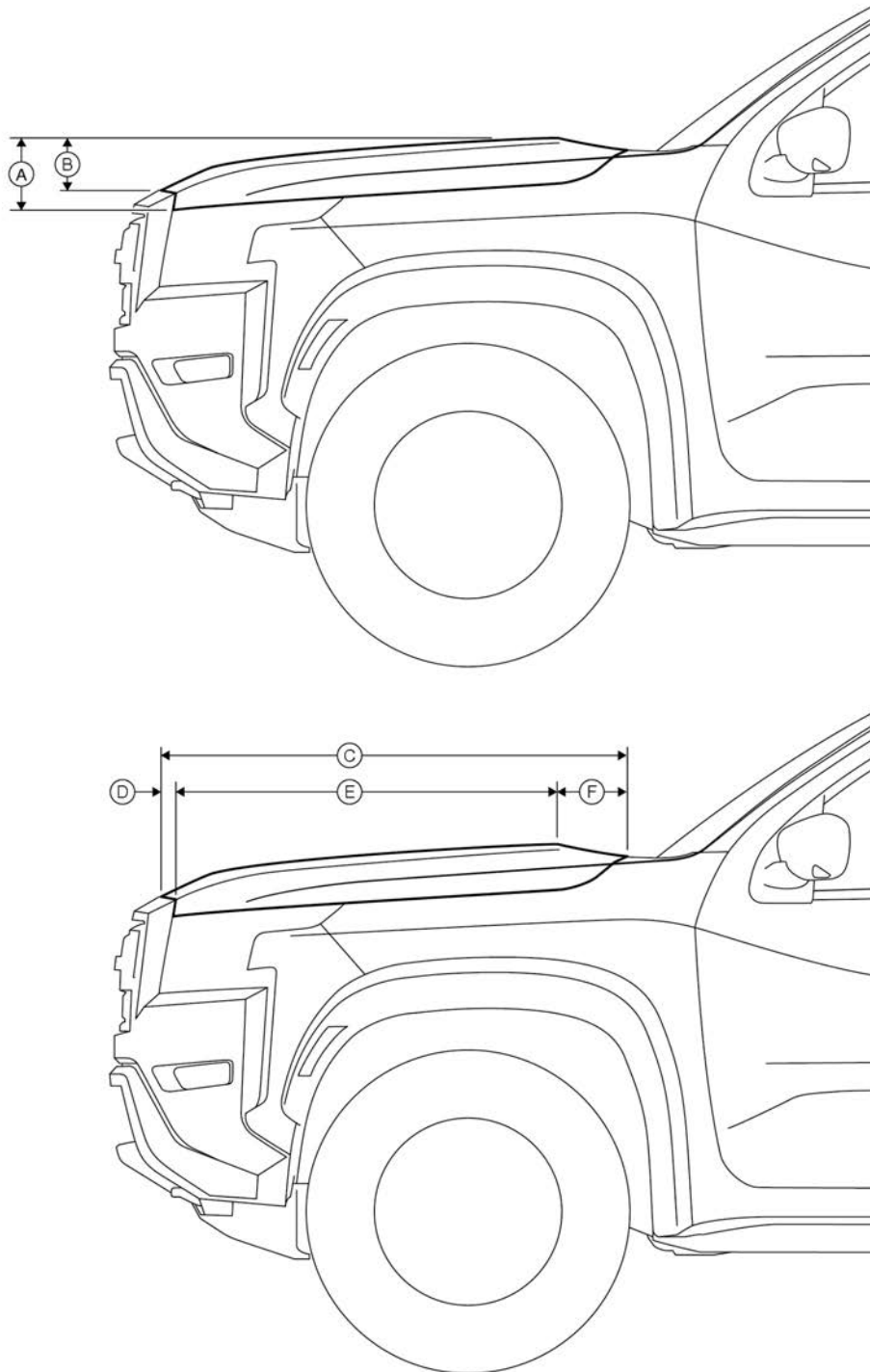
↔: Front of vehicle.

A. 584.3 mm (23.0 in)
 D. 736.5 mm (29.0 in)
 G. 812.7 mm (32.0 in)
 K. 114.2 mm (4.5 in)
 N. 236.3 mm (9.5 in)
 R. 0.9 m² (10.1 ft²)
 U. 470.0 mm (18.5 in)

B. 1270 mm (5.0 in)
 E. 0.9 m² (10.1 ft²)
 H. 1,155.7 mm (45.5 in)
 L. 584.3 mm (23.0 in)
 P. 812.8 mm (32.0 in)
 S. 736.5 mm (29.0 in)
 V. 1,155.7 mm (45.5 in)

C. 241.2 mm (9.5 in)
 F. 0.5 m² (5.2 ft²)
 J. 470.0 mm (18.5 in)
 M. 1270 mm (5.0 in)
 Q. 0.5 m² (5.2 ft²)
 T. 114.2 mm (4.5 in)
 W. 114.2 mm (4.5 in)

Hood Surface Exterior Dimensions



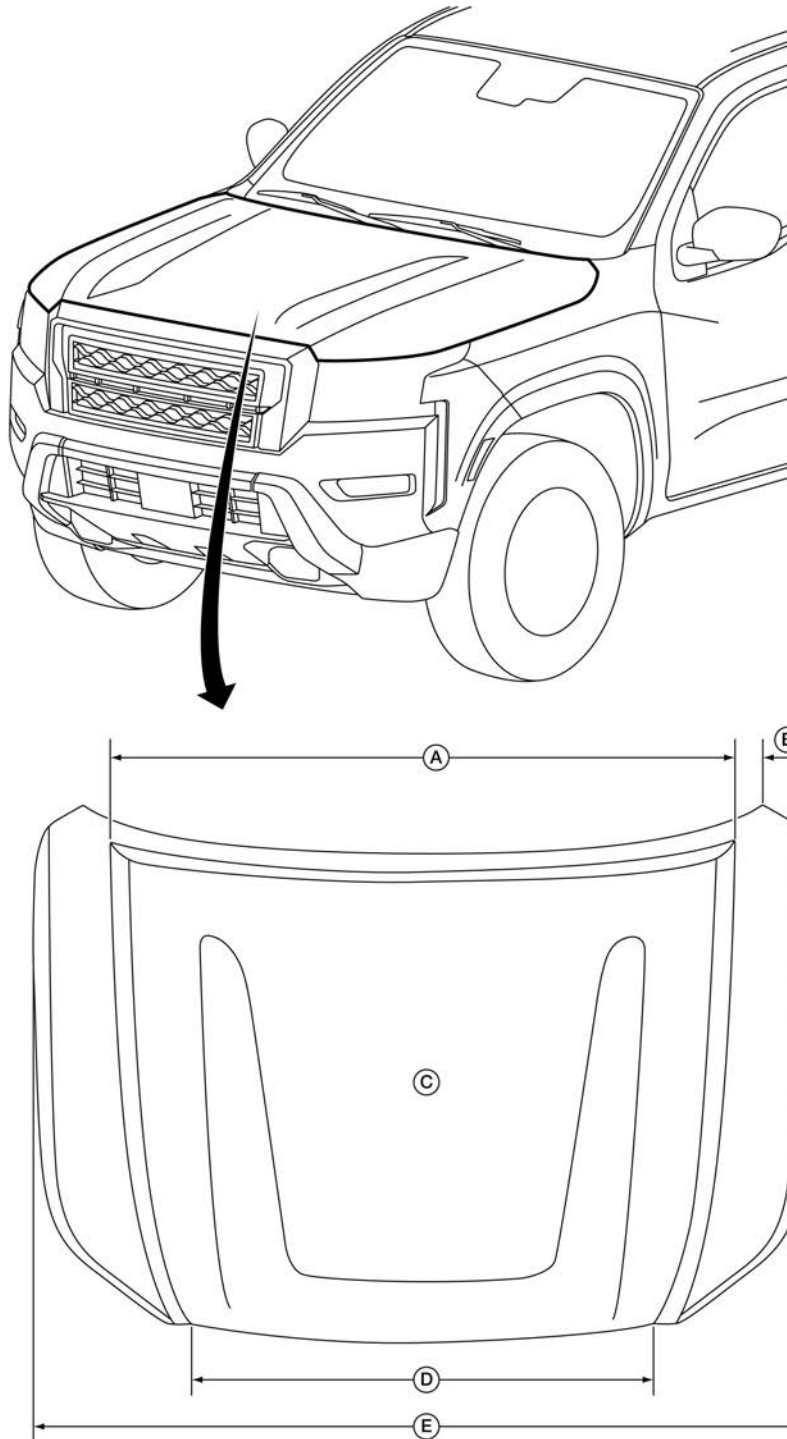
TGAAZIA0241ZZ

A. 134.6 mm (5.3 in)
D. 125.2 mm (4.9 in)

B. 76.2 mm (3.0 in)
E. 863.0 mm (34.0 in)

C. 1,041.6 mm (41.0 in)
F. 61.5 mm (2.4 in)

Hood area



TGAAZIA0242ZZ

A. 1,356.6 mm (53.4 in)

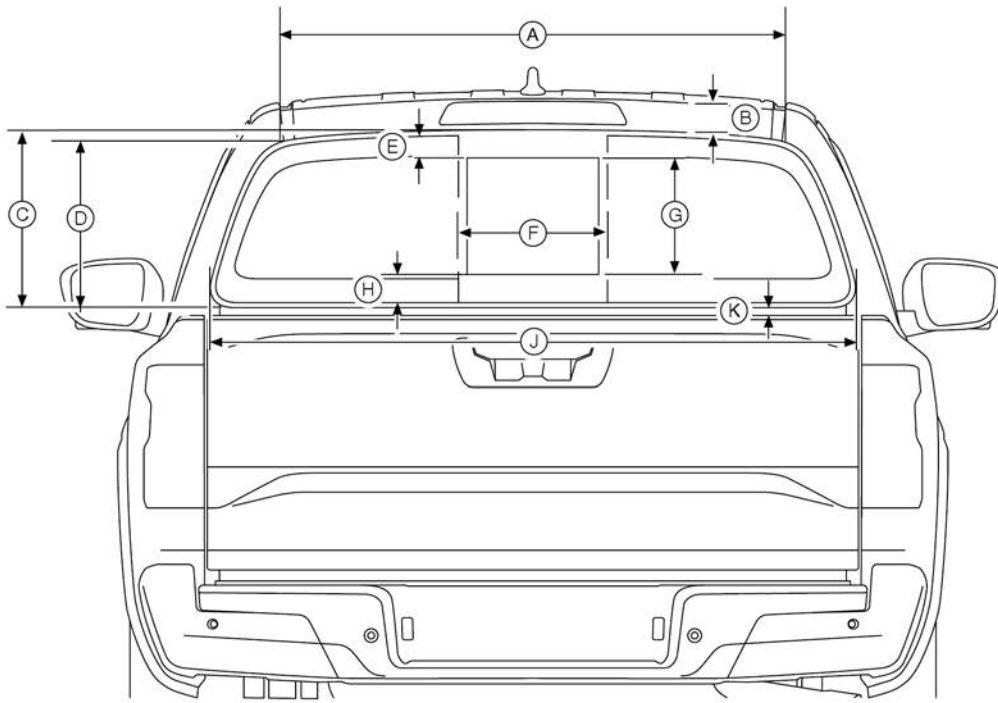
B. 103.4 mm (4.0 in)

C. Flat surface area:
1.74 m² (2,701.7 in²)

D. 1011.0 mm (39.8 in)

E. 1,675.8 mm (66.0 in)

Back Window Opening Sign Area



TGAAZIA0243ZZ

A. 1,155.7 mm (45.5 in)

B. 127.0 mm (5.0 in)

C. 419.1 mm (16.5 in)

D. 368.3 mm (14.5 in)

E. 63.5 mm (2.5 in)

F. 342.9 mm (13.5 in)

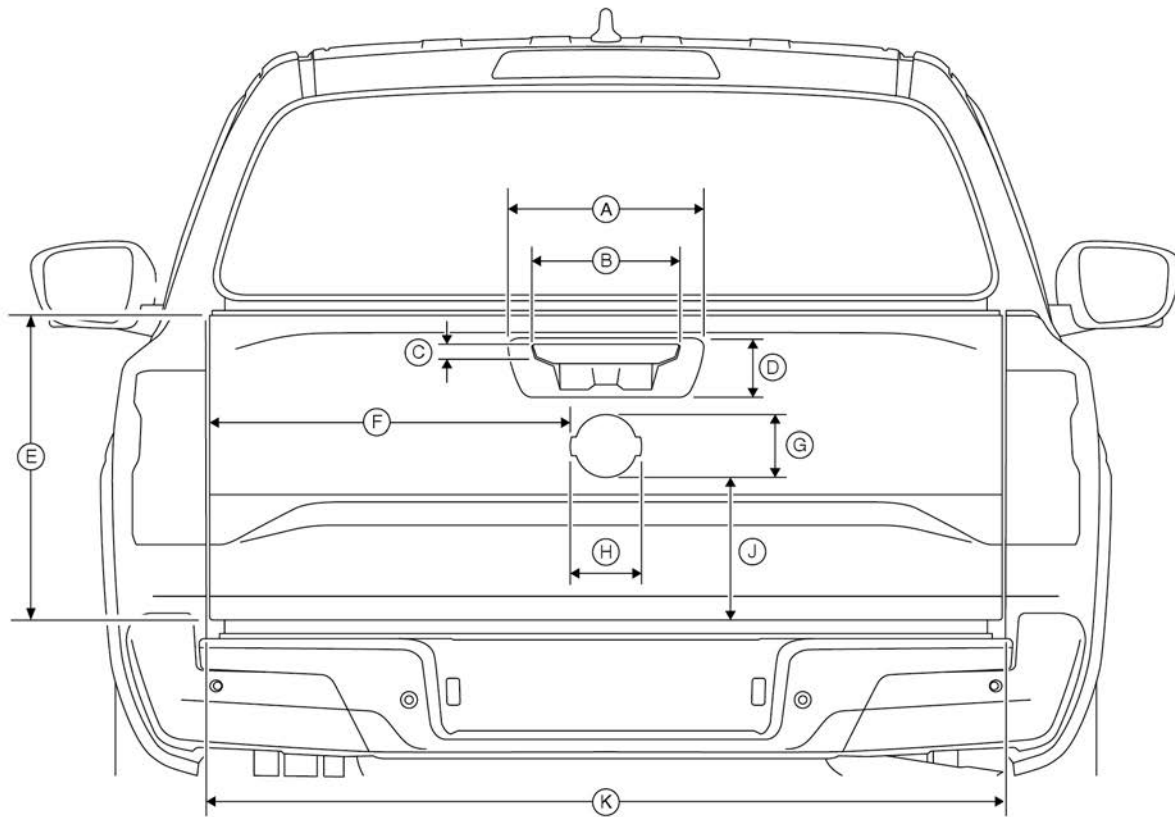
G. 266.7 mm (10.5 in)

H. 76.2 mm (3.0 in)

J. 1,480.8 mm (58.3 in)

K. 63.5 mm (2.5 in)

Tailgate Sign Area



TGAAZIA0244ZZ

A. 58.4 mm (2.3 in)
 D. 1270 mm (5.0 in)
 G. 1270 mm (5.0 in)
 K. 1,511.3 mm (59.5 in)

B. 279.4 mm (11.0 in)
 E. 622.3 mm (24.5 in)
 H. 158.0 mm (6.2 in)

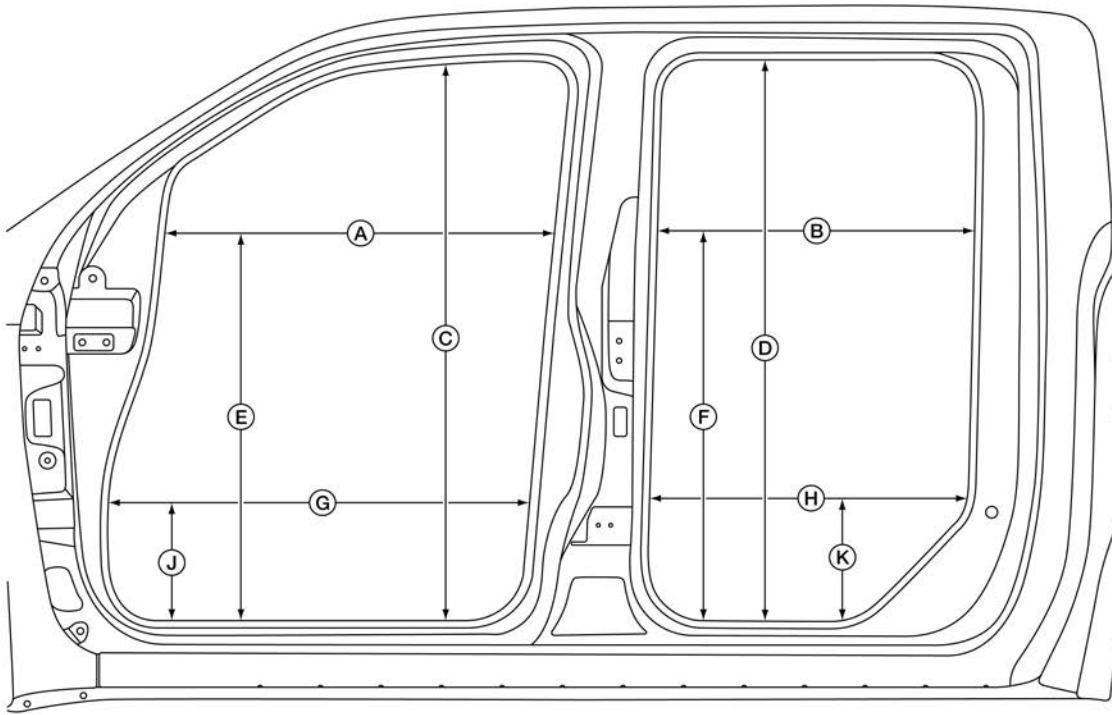
C. 51.0 mm (2.0 in)
 F. 678.2 mm (26.7 in)
 J. 273.1 mm (10.8 in)

PLACARDS

To find information and regulations about the placards, refer to Federal Motor Carrier Safety Administration (FMCSA)

EXTERIOR — CREW CAB

Door Opening Measurements



TGAAZIA0260ZZ

Without Door Seal and Interior Trim

A. 767.7 mm (30.2 in)	B. 639.3 mm (25.2 in)	C. 1,113.2 mm (43.8 in)
D. 1,123.4 mm (44.2 in)	E. 600.0 mm (23.6 in)	F. 502.8 mm (19.8 in)
G. 831.4 mm (32.7 in)	H. 534.3 mm (21.0 in)	J. 192.5 mm (7.6 in)
K. 127.6 mm (5.0 in)		

With Door Seal and Interior Trim

A. 761.7 mm (30.0 in)	B. 633.3 mm (24.9 in)	C. 1,107.2 mm (43.6 in)
D. 1,117.4 mm (44.0 in)	E. 594.0 mm (23.4 in)	F. 496.8 mm (19.6 in)
G. 825.4 mm (32.5 in)	H. 528.3 mm (20.8 in)	J. 186.5 mm (7.3 in)
K. 121.6 mm (4.8 in)		

Doors and Mirrors Dimensions

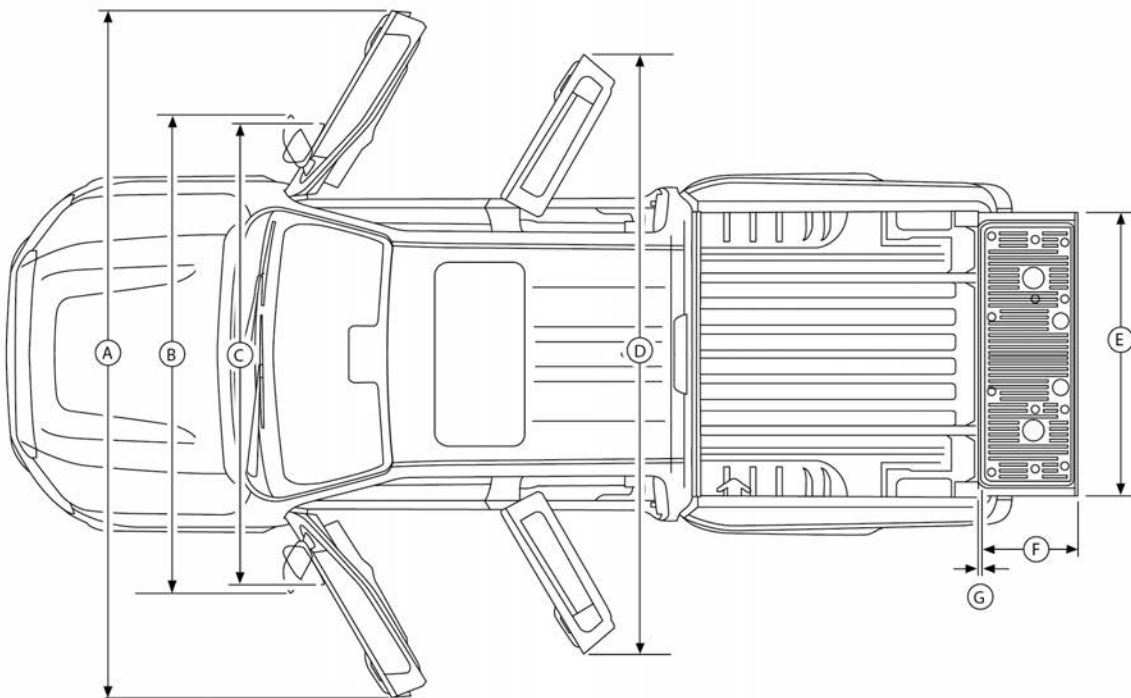
Overhead View

NOTE:

Removal of the bed is not authorized by Nissan.

**WARNING:**

For vehicles equipped with Blind Spot Warning (BSW) System or Around View® Monitor System, do not alter the outside mirrors. Doing so may cause the system(s) to operate improperly.



TGAAZIA0261ZZ

A. 3,601.7 mm (141.8 in)

B. With Mirrors Extended:
2,134.0 mm (84.0 in)

C. With Mirrors Folded:
1,930.4 mm (76.0 in)

D. 3,251.2 mm (128.0 in)

E. 1,491.0 mm (58.7 in)

F. 533.4 mm (21.0 in)

G. 69.0 mm (2.7 in)

Exterior Overall Dimensions — 2022-2023 (early production) Model Years

NOTE:

Check battery orientation to identify 2023 model year early or late production, refer to [How to identify Early/Late production \(pg. 81\)](#)

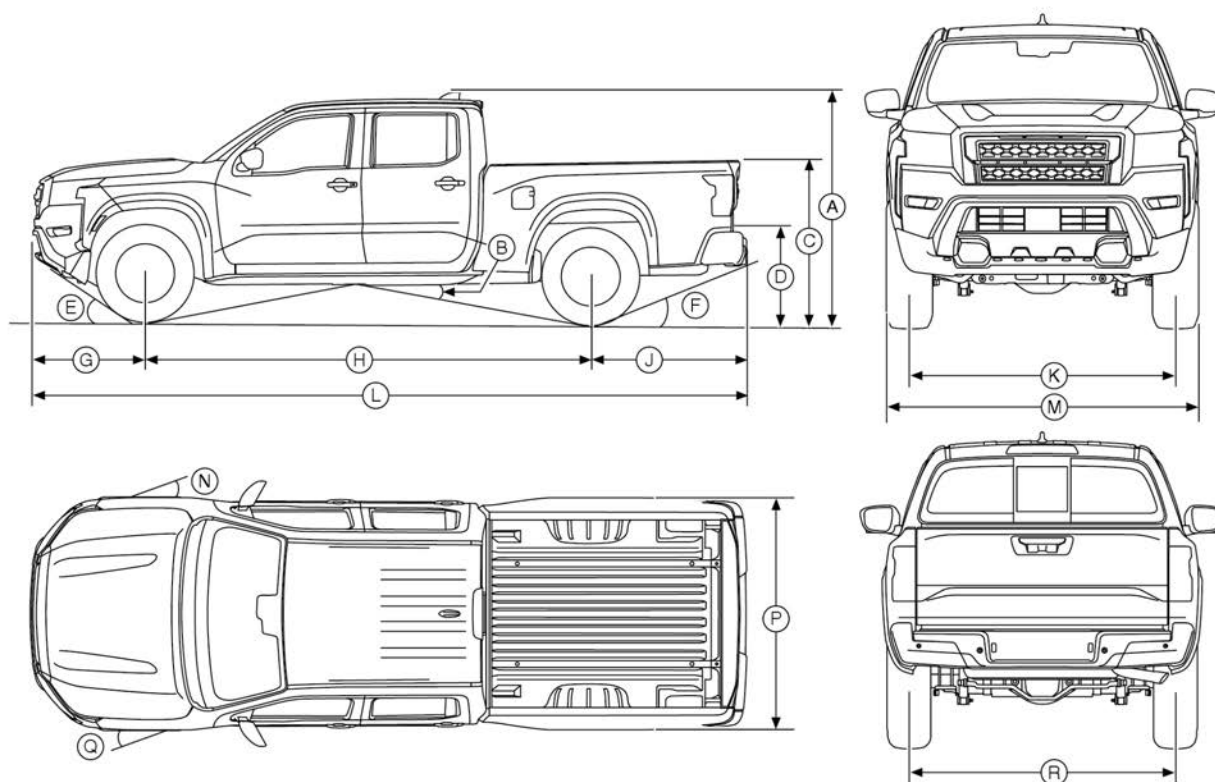
NOTE:

Removal of the bed is not authorized by Nissan.



WARNING:

For vehicles equipped with Blind Spot Warning (BSW) System or Around View® Monitor System, do not alter the outside mirrors. Doing so may cause the system(s) to operate improperly.



TGAZIA0262ZZ

A. S (2WD) 1,828.0 mm (72.0 in)
 S (4WD) 1,838.4 mm (72.4 in)
 SV (2WD) 1,819.7 mm (71.6 in)
 SV (4WD) 1,829.6 mm (72.0 in)
 SV (2WD/LWB) 1,815.1 mm (71.5 in)
 SV (4WD/LWB) 1,825.7 mm (71.9 in)
 PRO-X (2WD) 1,842.0 mm (72.5 in)
 PRO-4X (4WD) 1,852.6 mm (72.9 in)
 PRO-4X (4WD) (MEX) 1,852.4 mm (72.9 in)

B. Rampover Angle:
 S (2WD) 19.8°
 S (4WD) 20.6°
 SV (2WD) 19.2°
 SV (4WD) 20.0°
 SV (2WD/LWB) 17.3°
 SV (4WD/LWB) 18.0°
 PRO-X (2WD) 20.9°
 PRO-4X (4WD) 19.6°
 PRO-4X (4WD) (MEX) 19.5°

C. S (2WD) 1,297.9 mm (51.1 in)
 S (4WD) 1,306.8 mm (51.4 in)
 SV (2WD) 1,292.6 mm (50.9 in)
 SV (4WD) 1,301.8 mm (51.3 in)
 SV (2WD/LWB) 1,289.2 mm (50.8 in)
 SV (4WD/LWB) 1,298.5 mm (51.1 in)
 PRO-X (2WD) 1,303.9 mm (51.3 in)
 PRO-4X (4WD) 1,311.8 mm (51.6 in)

D. S (2WD) 793.8 mm (31.3 in)
 S (4WD) 802.3 mm (31.6 in)
 SV (2WD) 783.3 mm (30.8 in)
 SV (2WD w/trim) 806.6 mm (31.8 in)
 SV (4WD) 797.3 mm (31.4 in)
 SV (4WD w/trim) 815.6 mm (32.1 in)
 SV (2WD/LWB) 784 mm (30.9 in)
 SV (4WD/LWB) 793.1 mm (31.2 in)
 PRO-X (2WD) 818.1 mm (32.2 in)
 PRO-4X (4WD) 825.6 mm (32.5 in)

E. Approach Angle (with front license plate bracket installed):
 S (2WD) 24.6°
 S (4WD) 25.4°
 SV (2WD) 23.9°
 SV (4WD) 24.8°
 SV (2WD/LWB) 24.0°
 SV (4WD/LWB) 24.8°
 PRO-X (2WD) 25.6°
 PRO-4X (4WD) 26.5°
 PRO-4X (4WD) (MEX) 26.4°

F. Departure Angle:
 S (2WD w/o hitch) 21.9°
 S (2WD w/hitch) 18.0°
 S (4WD w/o hitch) 22.4°
 S (4WD w/hitch) 18.4°
 SV (2WD w/o hitch) 21.6°
 SV (2WD w/hitch) 17.6°
 SV (4WD w/o hitch) 21.9°
 SV (4WD w/hitch) 17.9°
 SV (2WD/LWB w/o hitch) 21.5°
 SV (2WD/LWB w/hitch) 17.4°
 SV (4WD/LWB w/o hitch) 21.9°
 SV (4WD/LWB w/hitch) 17.9°
 PRO-X (2WD w/o hitch) 22.6°
 PRO-X (2WD w/hitch) 18.7°
 PRO-4X (4WD w/o hitch) 23.0°
 PRO-4X (4WD w/hitch) 19.1°

G. 892.3 mm (35.1 in)

H. S/SV/PRO-X/4X
 3,200.0 mm (126.0 in)
 SV (LWB) 3,550.0 mm (139.8 in)

J. 1,245.9 mm (49.1 in)

K. 1,570.0 mm (61.8 in)

L. S/SV/PRO-X/4X
 5,338.1 mm (210.2 in)
 SV (LWB) 5,692.1 mm (224.1 in)

M. S/SV 1,840 mm (72.4 in)
 PRO-X/4X 1,850 mm (72.8 in)

N. S/SV/PRO-X (2WD) 31.35°
 S/SV/PRO-4X (4WD) 31.7°

P. (w/o mirrors) S/SV
 1,853.5 mm (73.0 in)
 PRO-X/4X 1,896.5 mm (74.7 in)

Q. S/SV/PRO-X (2WD) 35.45°
 S/SV/PRO-4X (4WD) 35.6°

R. 1,570.0 mm (61.8 in)

Exterior Overall Dimensions — 2023 Model Year (late production)

NOTE:

Check battery orientation to identify 2023 model year early or late production, refer to [How to identify Early/Late production \(pg. 81\)](#)

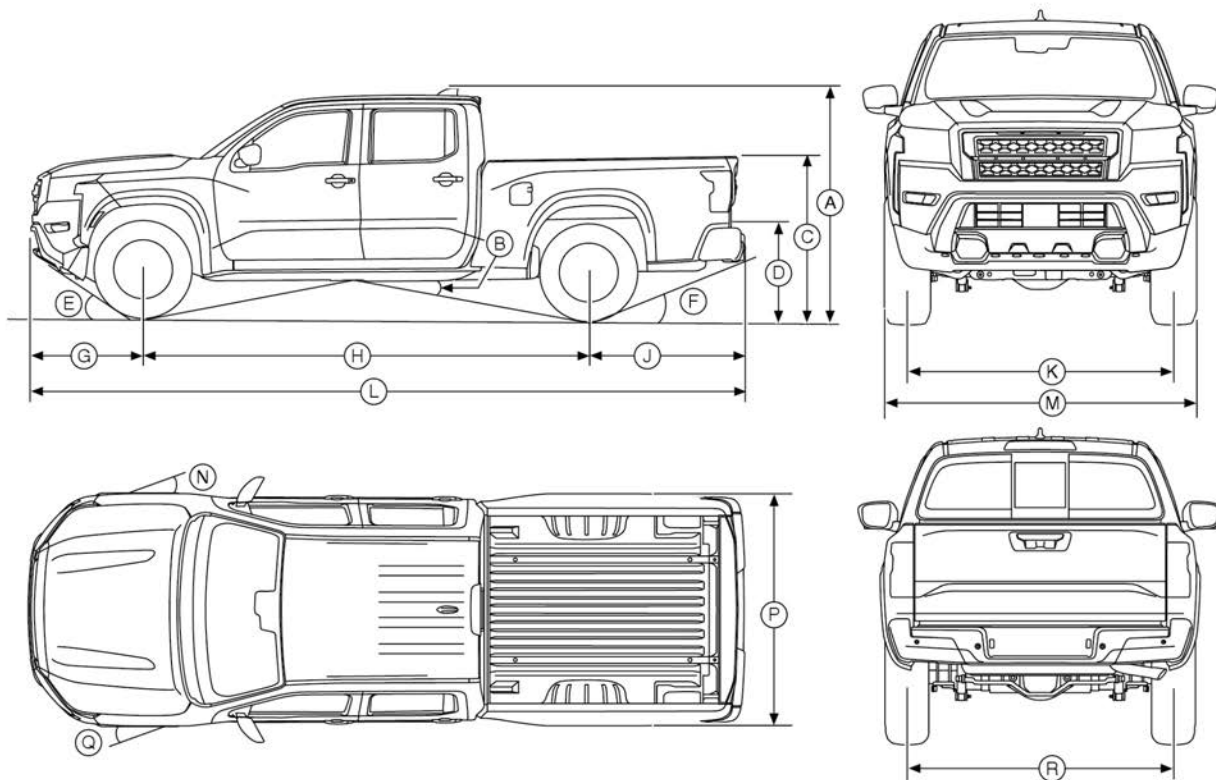
NOTE:

Removal of the bed is not authorized by Nissan.



WARNING:

For vehicles equipped with Blind Spot Warning (BSW) System or Around View® Monitor System, do not alter the outside mirrors. Doing so may cause the system(s) to operate improperly.



TGAZIA0262ZZ

A. S (2WD) 1,823.5 mm (71.8 in)
 S (4WD) 1,838.4 mm (72.4 in)
 SV (2WD) 1,814.7 mm (71.4 in)
 SV (4WD) 1,829.6 mm (72.0 in)
 SV (2WD/LWB) 1,809.8 mm (71.3 in)
 SV (4WD/LWB) 1,825.7 mm (71.9 in)
 PRO-X (2WD) 1,837.0 mm (72.3 in)
 PRO-4X (4WD) 1,852.6 mm (72.9 in)
 PRO-4X (4WD) (MEX) 1,852.4 mm (72.9 in)

B. Rampover Angle:
 S (2WD) 19.5°
 S (4WD) 20.6°
 SV (2WD) 18.9°
 SV (4WD) 20.0°
 SV (2WD/LWB) 16.9°
 SV (4WD/LWB) 18.0°
 PRO-X (2WD) 20.5°
 PRO-4X (4WD) 19.6°
 PRO-4X (4WD) (MEX) 19.5°

C. S (2WD) 1,294.6 mm (51.0 in)
 S (4WD) 1,307.2 mm (51.5 in)
 SV (2WD) 1,285.3 mm (50.6 in)
 SV (4WD) 1,297.8 mm (51.1 in)
 SV (2WD/LWB) 1,283.6 mm (50.5 in)
 SV (4WD/LWB) 1,297.6 mm (51.1 in)
 PRO-X (2WD) 1,306.9 mm (51.5 in)
 PRO-4X (4WD) 1,320.8 mm (52.0 in)

D. S (2WD) 790.8 mm (31.1 in)
 S (4WD) 802.8 mm (31.6 in)
 SV (2WD) 781.3 mm (30.8 in)
 SV (2WD w/trim) 799.6 mm (31.5 in)
 SV (4WD) 793.3 mm (31.2 in)
 SV (2WD/LWB) 811.6 mm (32.0 in)
 SV (4WD/LWB) 810.8 mm (31.9 in)
 PRO-X (2WD) 802.8 mm (31.6 in)
 PRO-4X (4WD) 816.3 mm (32.1 in)

E. Approach Angle (with front license plate bracket installed):
 S (2WD) 29.8°
 S (4WD) 31.4°
 SV (2WD) 29.0°
 SV (4WD) 30.6°
 SV (2WD/LWB) 29.0°
 SV (4WD/LWB) 30.6°
 PRO-X (2WD) 31.4°
 PRO-4X (4WD) 32.3°
 PRO-4X (4WD) (MEX) 32.3°

F. Departure Angle:
 S (2WD w/o hitch) 21.8°
 S (2WD w/hitch) 17.8°
 S (4WD w/o hitch) 22.4°
 S (4WD w/hitch) 18.4°
 SV (2WD w/o hitch) 21.4°
 SV (2WD w/hitch) 17.3°
 SV (4WD w/o hitch) 21.9°
 SV (4WD w/hitch) 17.9°
 SV (2WD/LWB w/o hitch) 21.3°
 SV (2WD/LWB w/hitch) 17.2°
 SV (4WD/LWB w/o hitch) 21.9°
 SV (4WD/LWB w/hitch) 17.9°
 PRO-X (2WD w/o hitch) 22.4°
 PRO-X (2WD w/hitch) 18.4°
 PRO-4X (4WD w/o hitch) 23.0°
 PRO-4X (4WD w/hitch) 19.1°

G. 892.3 mm (35.1 in)

H. S/SV/PRO-X/4X
 3,200.0 mm (126.0 in)
 SV (LWB) 3,550.0 mm (139.8 in)

J. 1,245.9 mm (49.1 in)

K. 1,570.0 mm (61.8 in)

L. S/SV/PRO-X/4X
 5,338.1 mm (210.2 in)
 SV (LWB) 5,692.1 mm (224.1 in)

M. S/SV 1,840 mm (72.4 in)
 PRO-X/4X 1,850 mm (72.8 in)

N. S/SV/PRO-X (2WD) 31.35°
 S/SV/PRO-4X (4WD) 31.7°

P. (w/o mirrors) S/SV
 1,853.5 mm (73.0 in)
 PRO-X/4X 1,896.5 mm (74.7 in)

Q. S/SV/PRO-X (2WD) 35.45°
 S/SV/PRO-4X (4WD) 35.6°

R. 1,570.0 mm (61.8 in)

Exterior Overall Dimensions — 2024 Model Year

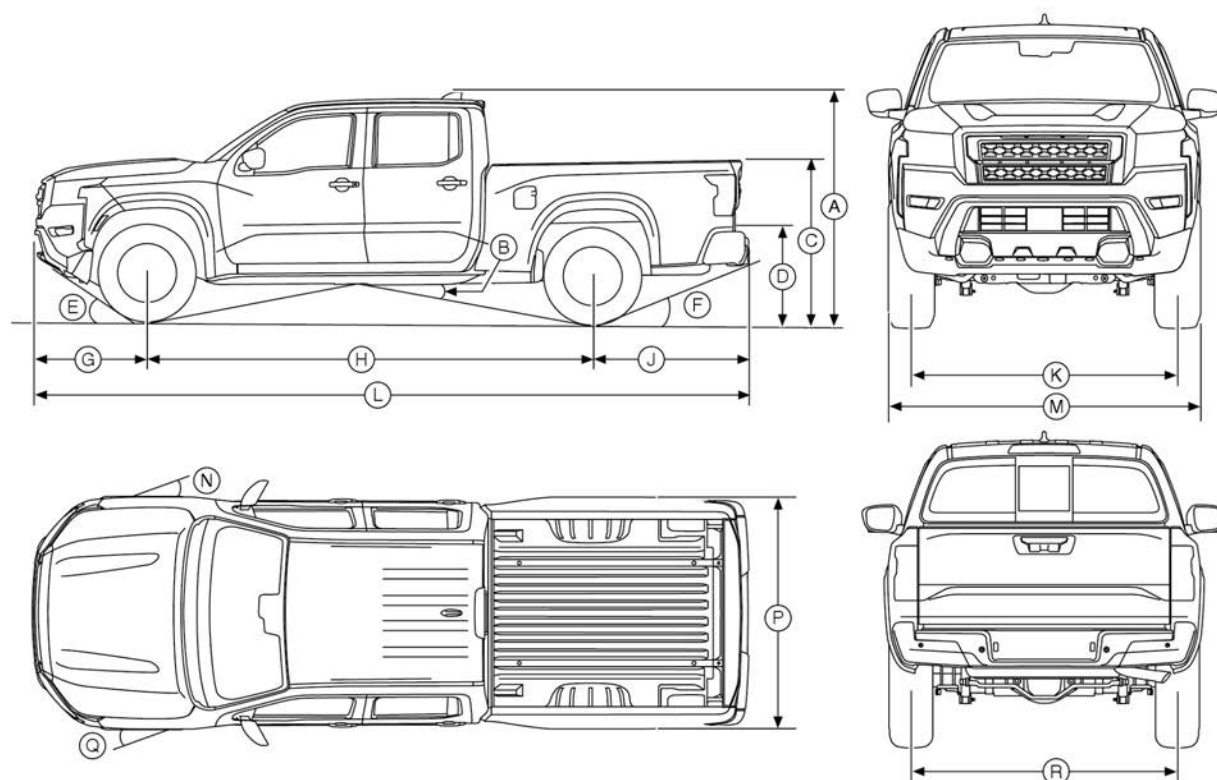
NOTE:

Removal of the bed is not authorized by Nissan.



WARNING:

For vehicles equipped with Blind Spot Warning (BSW) System or Around View® Monitor System, do not alter the outside mirrors. Doing so may cause the system(s) to operate improperly.



TGAAZIA0262ZZ

A. S, SV base (2WD) 1,823.5 mm (71.8 in)
 S, SV base (4WD) 1,838.4 mm (72.4 in)
 SV *, SL (2WD) 1,814.7 mm (71.4 in)
 SV *, SL (4WD) 1,829.6 mm (72.0 in)
 SV (2WD/LWB) 1,809.8 mm (71.3 in)
 SV, SL (4WD/LWB) 1,825.7 mm (71.9 in)
 PRO-X (2WD) 1,837.0 mm (72.3 in)
 PRO-4X (4WD) 1,852.6 mm (72.9 in)
 PRO-4X (4WD) (MEX) 1,852.4 mm (72.9 in)

B. Rampover Angle:
 S, SV base (2WD) 19.5°
 S, SV base (4WD) 20.6°
 SV *, SL (2WD) 18.9°
 SV *, SL (4WD) 20.0°
 SV (2WD/LWB) 16.9°
 SV, SL (4WD/LWB) 18.0°
 PRO-X (2WD) 20.5°
 PRO-4X (4WD) 19.6°
 PRO-4X (4WD) (MEX) 19.5°

C. S, SV base (2WD) 1,294.6 mm (51.0 in)
 S, SV base (4WD) 1,307.2 mm (51.5 in)
 SV *, SL (2WD) 1,285.3 mm (50.6 in)
 SV *, SL (4WD) 1,297.8 mm (51.1 in)
 SV (2WD/LWB) 1,283.6 mm (50.5 in)
 SV, SL (4WD/LWB) 1,297.6 mm (51.1 in)
 PRO-X (2WD) 1,306.9 mm (51.5 in)
 PRO-4X (4WD) 1,320.8 mm (52.0 in)

<p>D. S, SV base (2WD) 790.8 mm (31.1 in)</p> <p>S, SV base (4WD) 802.8 mm (31.6 in)</p> <p>SV * (2WD) 781.3 mm (30.8 in)</p> <p>SV *, SL (2WD w/trim) 799.6 mm (31.5 in)</p> <p>SV * (4WD) 793.3 mm (31.2 in)</p> <p>SV *, SL (4WD w/trim) 811.6 mm (32.0 in)</p> <p>SV (2WD/LWB) 797.2 mm (31.4 in)</p> <p>SV, SL (4WD/LWB) 810.8 mm (31.9 in)</p> <p>PRO-X (2WD) 802.8 mm (31.6 in)</p> <p>PRO-4X (4WD) 816.3 mm (32.1 in)</p>	<p>E. Approach Angle (with front license plate bracket installed):</p> <p>S, SV base (2WD) 29.8°</p> <p>S, SV base (4WD) 31.4°</p> <p>SV *, SL (2WD) 29.0°</p> <p>SV *, SL (4WD) 30.6°</p> <p>SV (2WD/LWB) 29.0°</p> <p>SV, SL (4WD/LWB) 30.6°</p> <p>PRO-X (2WD) 31.4°</p> <p>PRO-4X (4WD) 32.3°</p> <p>PRO-4X (4WD) (MEX) 32.3°</p>	<p>F. Departure Angle:</p> <p>S, SV base (2WD w/o hitch) 21.8°</p> <p>S, SV base (2WD w/hitch) 17.8°</p> <p>S, SV base (4WD w/o hitch) 22.4°</p> <p>S, SV base (4WD w/hitch) 18.4°</p> <p>SV *, SL (2WD w/o hitch) 21.4°</p> <p>SV * (2WD w/hitch) 17.3°</p> <p>SV *, SL (4WD w/o hitch) 21.9°</p> <p>SV * (4WD w/hitch) 17.9°</p> <p>SV (2WD/LWB w/o hitch) 21.3°</p> <p>SV (2WD/LWB w/hitch) 17.2°</p> <p>SV, SL (4WD/LWB w/o hitch) 21.9°</p> <p>SV (4WD/LWB w/hitch) 17.9°</p> <p>PRO-X (2WD w/o hitch) 22.4°</p> <p>PRO-X (2WD w/hitch) 18.4°</p> <p>PRO-4X (4WD w/o hitch) 23.0°</p> <p>PRO-4X (4WD w/hitch) 19.1°</p>
<p>G. 892.3 mm (35.1 in)</p>	<p>H. S/SV/SL/PRO-X/4X 3,200.0 mm (126.0 in)</p> <p>SV/SL (LWB) 3,550.0 mm (139.8 in)</p>	<p>J. 1,245.9 mm (49.1 in)</p>
<p>K. 1,570.0 mm (61.8 in)</p>	<p>L. S/SV/SL/PRO-X/4X 5,338.1 mm (210.2 in)</p> <p>SV/SL(LWB) 5,692.1 mm (224.1 in)</p>	<p>M. S/SV/SL 1,840 mm (72.4 in)</p> <p>PRO-X/4X 1,850 mm (72.8 in)</p>
<p>N. S/SV/SL/PRO-X (2WD) 31.35°</p> <p>S/SV/SL/PRO-4X (4WD) 31.7°</p>	<p>P. (w/o mirrors) S/SV/SL 1,853.5 mm (73.0 in)</p> <p>PRO-X/4X 1,896.5 mm (74.7 in)</p>	<p>Q. S/SV/SL/PRO-X (2WD) 35.45°</p> <p>S/SV/SL/PRO-4X (4WD) 35.6°</p>
<p>R. 1,570.0 mm (61.8 in)</p>		
<p>*1: SV w/ comfort & convenience package w/ 17" wheels.</p>		

Exterior Overall Dimensions — Starting 2025 Model Year

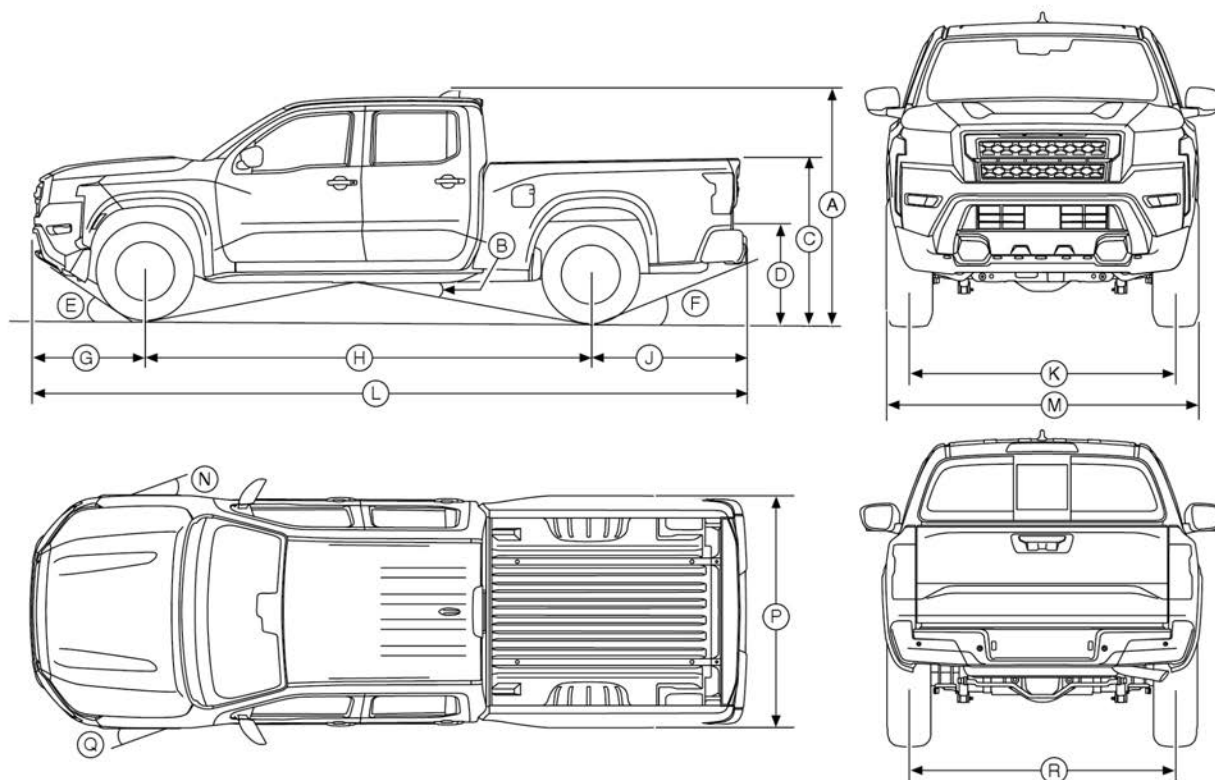
NOTE:

Removal of the bed is not authorized by Nissan.



WARNING:

For vehicles equipped with Blind Spot Warning (BSW) System or Around View® Monitor System, do not alter the outside mirrors. Doing so may cause the system(s) to operate improperly.



TGAZIA0262ZZ

2WD Models

A. S 1,823.5 mm (71.8 in)

SV, SL 1,814.7 mm (71.4 in)

SV, SL (LWB) 1,809.8 mm (71.6 in)

PRO-X 1,837.0 mm (72.3 in)

B. Rampover Angle:

S 19.5°

SV, SL 18.9°

SV, SL (LWB) 16.9°

PRO-X 20.5°

C. S 1,294.6 mm (51.0 in)

SV, SL 1,285.3 mm (50.6 in)

SV, SL (LWB) 1,283.6 mm (50.5 in)

PRO-X 1,306.9 mm (51.5 in)

D. S 790.8 mm (31.1 in)

SV base (w/o trim) 781.3 mm (30.8 in)

SV, SL (w/trim) 799.6 mm (31.5 in)

SV, SL (LWB) 797.2 mm (31.4 in)

PRO-X (w/o trim) 802.8 mm (31.6 in)

PRO-X (w/trim) 821.1 mm (32.3 in)

E. Approach Angle (with front license plate bracket installed):

S 29.8°

SV, SL 29.0°

SV, SL (LWB) 29.0°

PRO-X 31.4°

F. Departure Angle:

S (w/o hitch) 21.8°

S (w/hitch) 17.8°

SV, SL (w/o hitch) 21.4°

SV, SL (w/hitch) 17.3°

SV, SL (LWB w/o hitch) 21.3°

SV, SL (LWB w/hitch) 17.2°

PRO-X (w/o hitch) 22.4°

PRO-X (w/hitch) 18.4°

G. 892.3 mm (35.1 in)	H. S/SV/SL/PRO-X 3,200.0 mm (126.0 in) SV/SL (LWB) 3,550.0 mm (139.8 in)	J. 1,245.9 mm (49.1 in)
K. 1,570.0 mm (61.8 in)	L. S/SV/SL/PRO-X 5,338.1 mm (210.2 in) SV/SL(LWB) 5,692.1 mm (224.1 in)	M. S/SV/SL 1,840 mm (72.4 in) PRO-X 1,850 mm (72.8 in)
N. S/SV/SL/PRO-X 31.35°	P. (w/o mirrors) S/SV/SL 1,853.5 mm (73.0 in) PRO-X 1,896.5 mm (74.7 in)	Q. S/SV/SL/PRO-X 35.45°
R. 1,570.0 mm (61.8 in)		

4WD Models

A. S 1,838.4 mm (72.4 in) SV, SL 1,829.6 mm (72.0 in) SV, SL (LWB) 1,825.7 mm (71.9 in) PRO-4X 1,852.6 mm (72.9 in) PRO-4X (LWB) 1,848.7 mm (72.8 in)	B. Rampover Angle: S 20.6° SV, SL 20.0° SV, SL (LWB) 18.0° PRO-4X 19.6° PRO-4X (LWB) 18.1°	C. S 1,307.2 mm (51.5 in) SV, SL 1,297.8 mm (51.1 in) SV, SL (LWB) 1,297.6 mm (51.1 in) PRO-4X 1,320.8 mm (52.0 in) PRO-4X (LWB) 1,319.6 mm (52.0 in)
D. S 802.8 mm (31.6 in) SV base (w/o trim) 793.3 mm (31.2 in) SV, SL (w/trim) 811.6 mm (32.0 in) SV (w/o trim) (LWB) 800.4 mm (31.5 in) SV, SL (w/trim) (LWB) 810.8 mm (31.9 in) PRO-4X (w/o trim) 816.3 mm (32.1 in) PRO-4X (LWB) (w/o trim) 814.5 mm (32.1 in) PRO-4X (w/ trim) 834.6 mm (32.9 in) PRO-4X (LWB) (w/ trim) 832.8 mm (32.8 in)	E. Approach Angle (with front license plate bracket installed): S 31.4° SV, SL 30.6° SV, SL (LWB) 30.6° PRO-4X 32.3° PRO-4X (LWB) 32.1°	F. Departure Angle: S (w/o hitch) 22.4° S (w/ hitch) 18.4° SV, SL (w/o hitch) 21.9° SV, SL (w/ hitch) 17.9° SV, SL (LWB w/o hitch) 21.9° SV, SL (LWB w/hitch) 17.9° PRO-4X (LWB w/o hitch) 22.9° PRO-4X (w/o hitch) 23.0° PRO-4X (LWB w/hitch) 19.0° PRO-4X (w/ hitch) 19.1°
G. 892.3 mm (35.1 in)	H. S/SV/SL/PRO-4X 3,200.0 mm (126.0 in) SV/SL (LWB) 3,550.0 mm (139.8 in)	J. 1,245.9 mm (49.1 in)
K. 1,570.0 mm (61.8 in)	L. S/SV/SL/PRO-4X 5,338.1 mm (210.2 in) SV/SL/PRO-4X (LWB) 5,692.1 mm (224.1 in)	M. S/SV/SL 1,840 mm (72.4 in) PRO-4X 1,850 mm (72.8 in)
N. S/SV/SL/PRO-4X 31.7°	P. (w/o mirrors) S/SV/SL 1,853.5 mm (73.0 in) PRO-4X 1,896.5 mm (74.7 in)	Q. S/SV/SL/PRO-4X 35.6°
R. 1,570.0 mm (61.8 in)		

Bed Dimensions

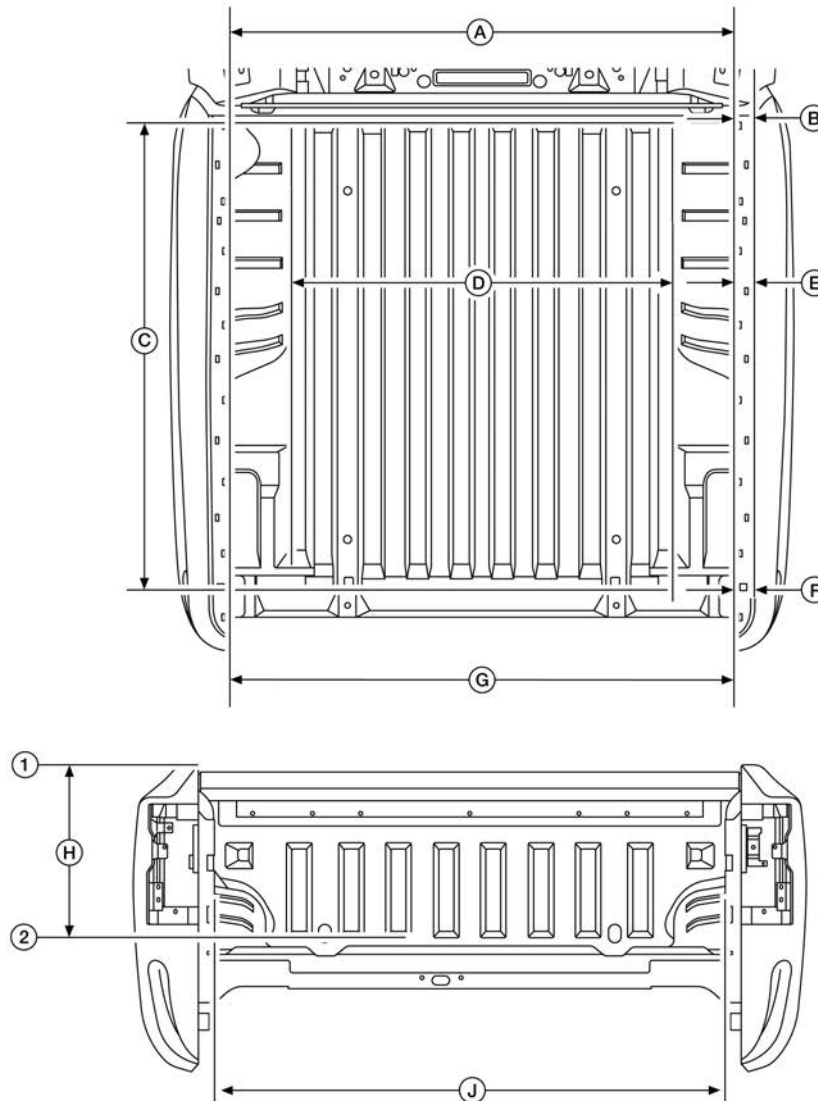
NOTE:

Removal of the bed is not authorized by Nissan.

NOTE:

All measurements in this section are taken from metal surface to metal surface. The nominal thickness of the spray-in bed liner is 1.5 mm (0.06 in).

Crew Cab Standard Wheelbase



TGAZIA0263ZZ

1. Top of bed side cap

2. Top of bed floor ribs

A. Maximum cargo width at front of bed: 1,560.0 mm (61.4 in)

B. Width of bed side cap at front: 41.8 mm (1.7 in)

C. Maximum cargo length: 1,495.5 mm (58.9 in) with bedliner and tailgate liner
1,511.5 mm (59.5 in) without bedliner and tailgate liner

D. Maximum cargo width between wheel wells: 1,114.2 mm (43.9 in)

E. Width of bed side cap at center:
49.7 mm (2.0 in)

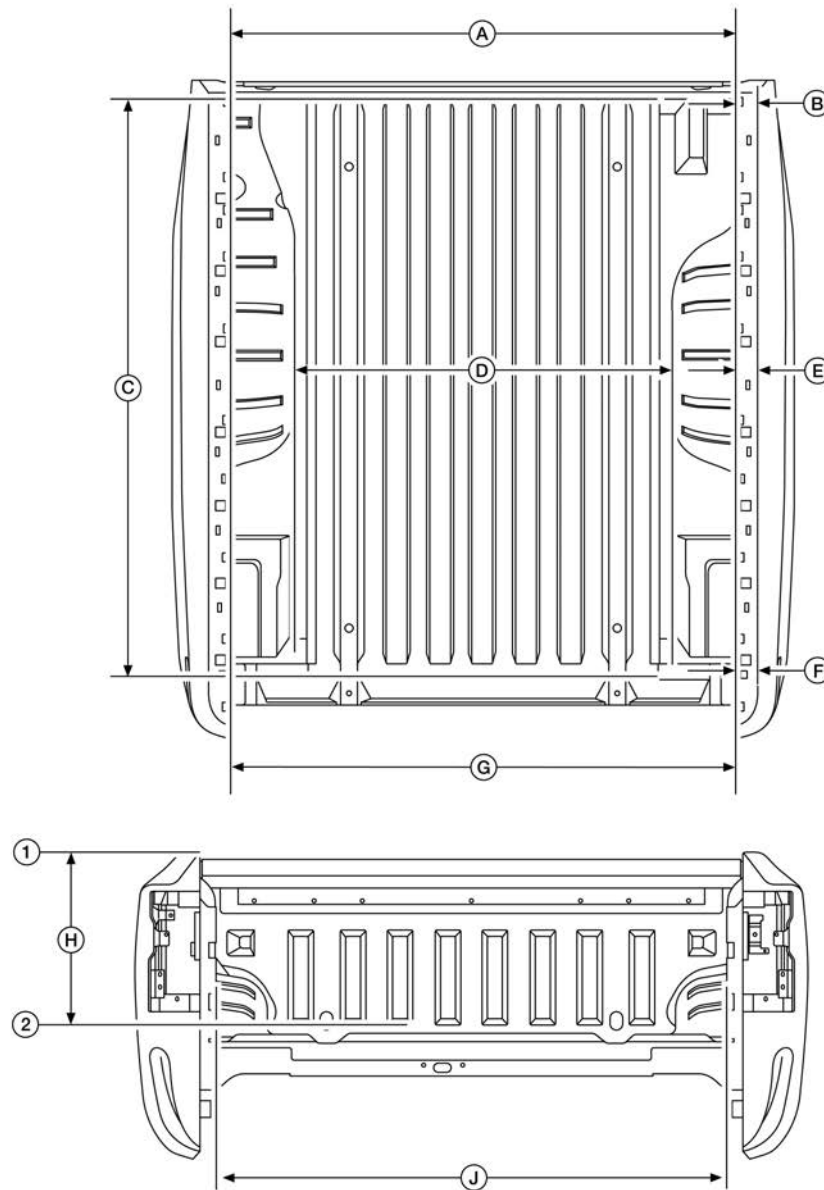
H. Height of bed: 494.0 mm (19.5 in)

F. Width of bed side cap at
rear: 42.5 mm (1.7 in)

J. Maximum cargo width
tailgate opening:
1,404.3 mm (55.3 in)

G. Maximum cargo width at rear
of bed: 1,500.7 mm (59.1 in)

Crew Cab Long Wheelbase



TGAZIA0264ZZ

1. Top of bed side cap

2. Top of bed floor ribs

A. Maximum cargo width at front of bed: 1,560.0 mm (61.4 in)

B. Width of bed side cap at front: 41.8 mm (1.7 in)

C. Maximum cargo length: 1,845.5 mm (72.7 in) with bedliner and tailgate liner
1,861.5 mm (73.3 in) without bedliner and tailgate liner

D. Maximum cargo width between wheel wells: 1,114.2 mm (43.9 in)

E. Width of bed side cap at center: 49.7 mm (2.0 in)

F. Width of bed side cap at rear: 42.5 mm (1.7 in)

G. Maximum cargo width at rear of bed: 1,500.7 mm (59.1 in)

H. Height of bed: 494.0 mm (19.5 in)

J. Maximum cargo width tailgate opening: 1,404.3 mm (55.3 in)

Wheel Well Clearance

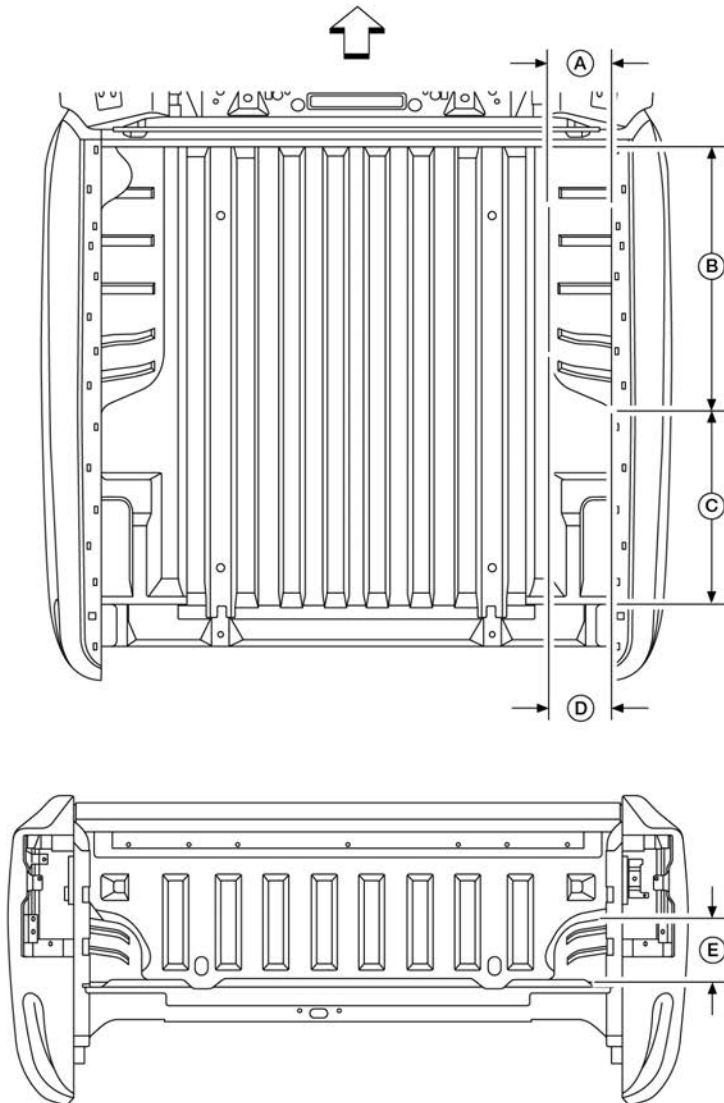
NOTE:

Removal of the bed is not authorized by Nissan.

NOTE:

All measurements in this section are taken from metal surface to metal surface. The nominal thickness of the spray-in bed liner is 1.5 mm (0.06 in).

Crew Cab Standard Wheelbase



TGAZIA0265ZZ

↖: Front of vehicle.

A. 185.1 mm (7.3 in)

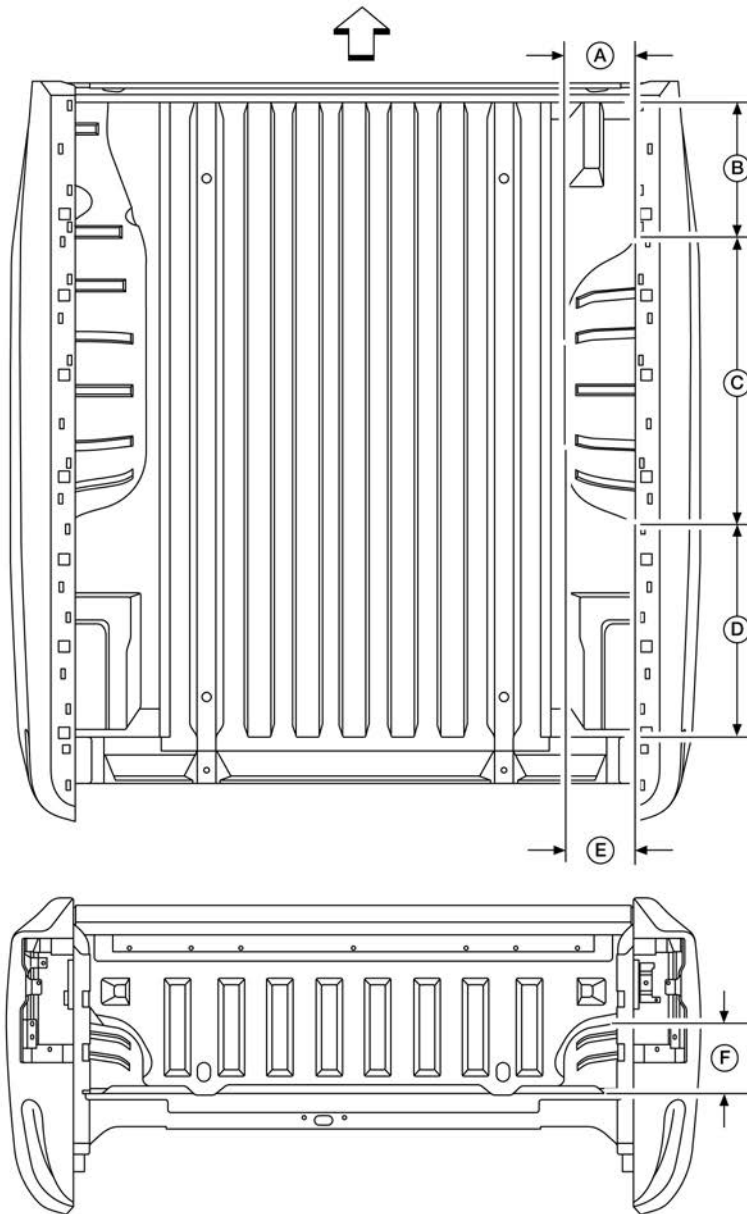
B. 796.3 mm (31.4 in)

C. 737.3 mm (29.0 in)

D. 185.1 mm (7.3 in)

E. 185.0 mm (7.3 in)

Crew Cab Long Wheelbase



TGAZIA0266ZZ

↖: Front of vehicle.

A. 185.1 mm (7.3 in)

B. 379.4 mm (14.9 in)

C. 760.5 mm (29.9 in)

D. 550.6 mm (21.7 in)

E. 185.1 mm (7.3 in)

F. 185.0 mm (7.3 in)

Tie-Down Hooks

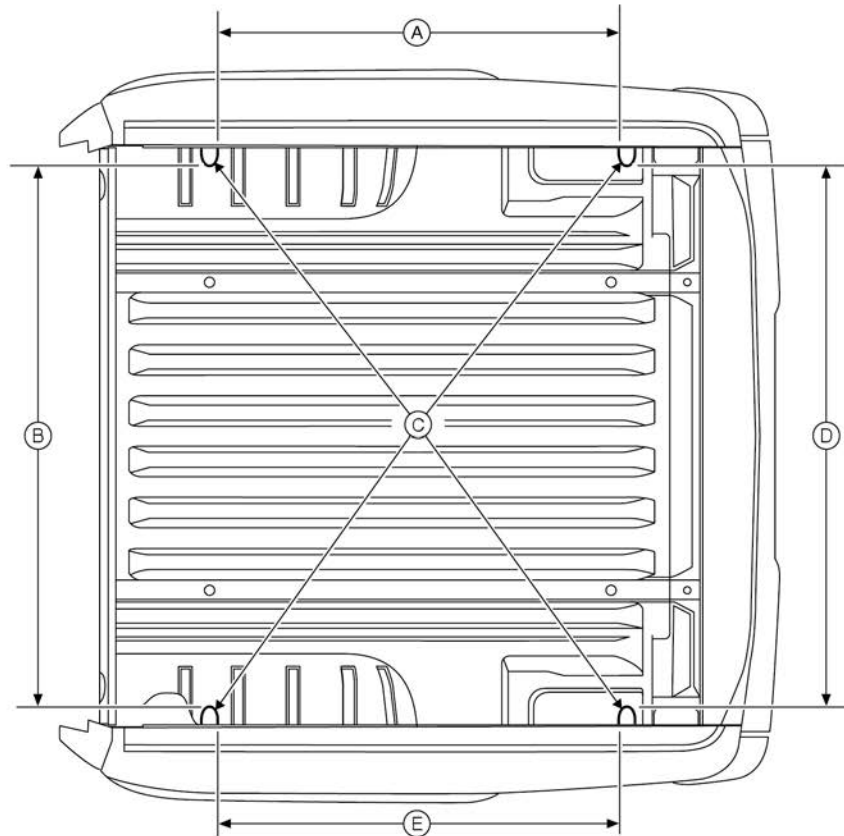
NOTE:

Removal of the bed is not authorized by Nissan.

NOTE:

All measurements in this section are taken from metal surface to metal surface. The nominal thickness of the spray-in bed liner is 1.5 mm (0.06 in).

Crew Cab Standard Wheelbase



TGAAZIA0267ZZ

**WARNING:**

Do not exceed the maximum tie-down hook loading of 5,250 N (1,180.2 lbs.) per tie-down.

A. 1,016.0 mm (40.0 in)

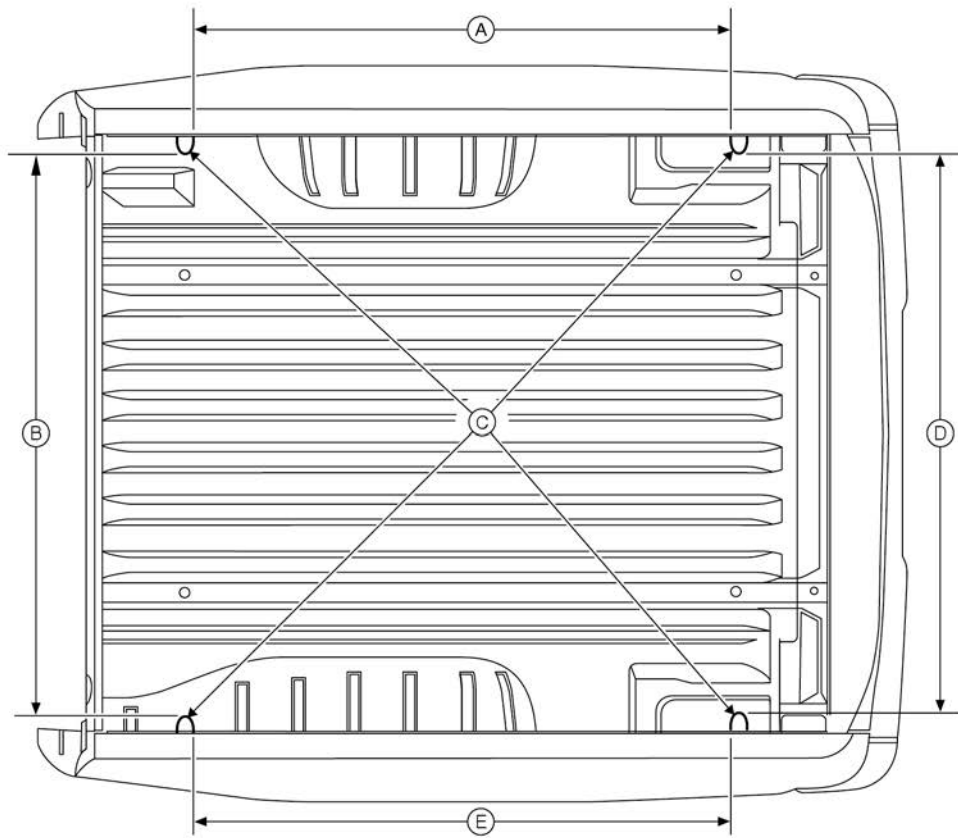
B. 1,493.5 mm (58.8 in)

C. 1,854.2 mm (73.0 in)

D. 1,562.0 mm (61.5 in)

E. 1,016.0 mm (40.0 in)

Crew Cab Long Wheelbase



TGAAZIA0268ZZ

**WARNING:**

Do not exceed the maximum tie-down hook loading of 5,250 N (1,180.2 lbs.) per tie-down.

A. 1,378.8 mm (54.3 in)

B. 1,632.6 mm (64.3 in)

C. 2,112.5 mm (83.2 in)

D. 1,560.5 mm (61.4 in)

E. 1,378.8 mm (54.3 in)

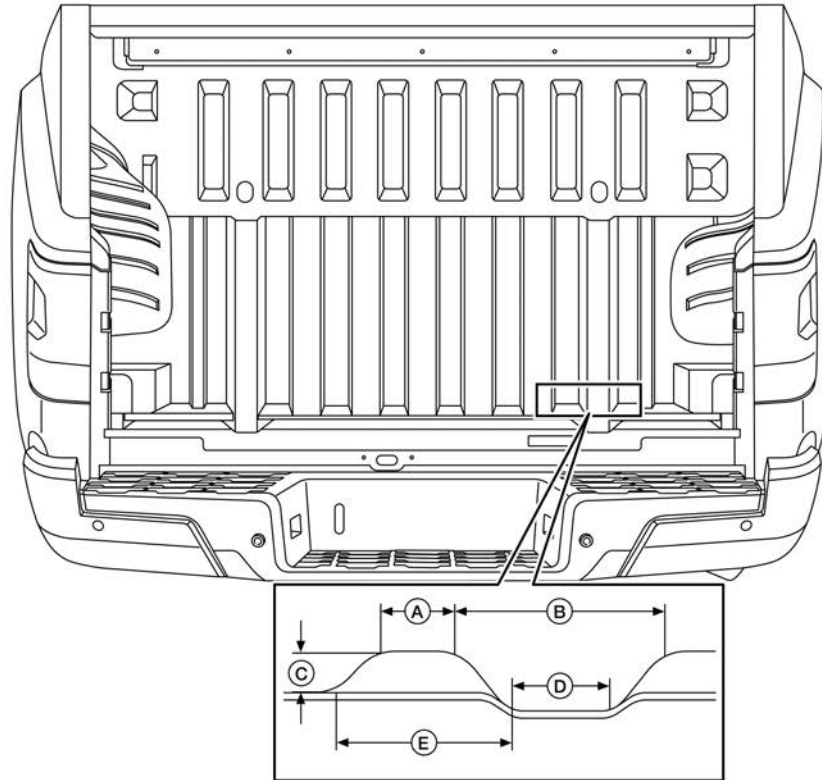
Bed Rib Dimensions

NOTE:

Removal of the bed is not authorized by Nissan.

NOTE:

All measurements in this section are taken from metal surface to metal surface. The nominal thickness of the spray-in bed liner is 1.5 mm (0.06 in).



TGAZIA0269ZZ

A. 44.5 mm (1.8 in)

B. 95.2 mm (3.8 in)

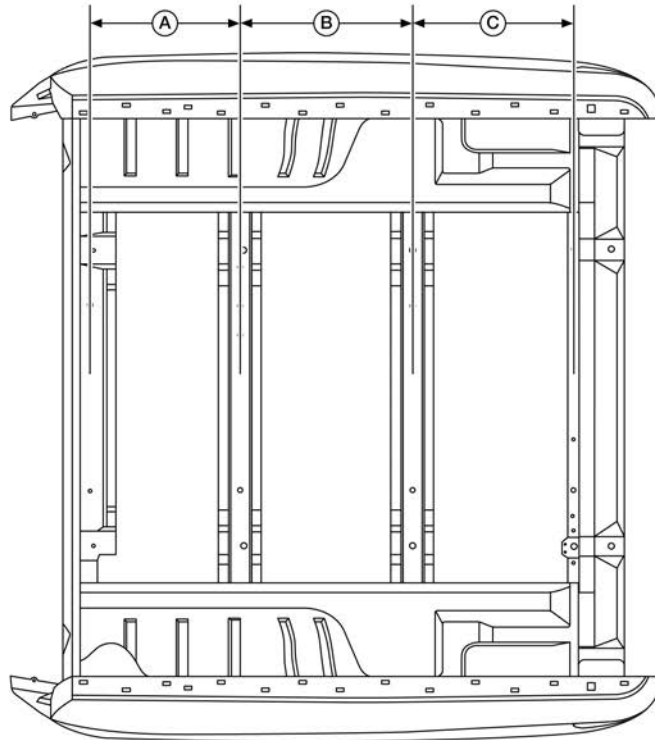
C. 22.0 mm (0.9 in)

D. 44.5 mm (1.8 in)

E. 76.2 mm (3.0 in)

Bed Support Dimensions**NOTE:**

Removal of the bed is not authorized by Nissan.

Crew Cab Standard Wheelbase

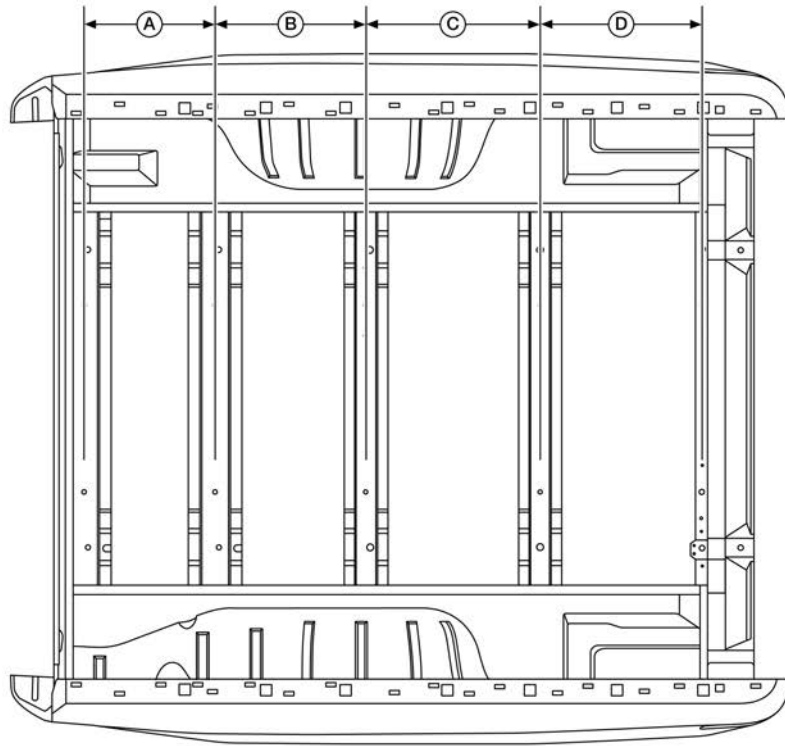
TGAZIA0270ZZ

A. 404.1 mm (15.9 in)

B. 466.4 mm (18.4 in)

C. 430.0 mm (16.9 in)

Crew Cab Long Wheelbase



TGAZIA0271ZZ

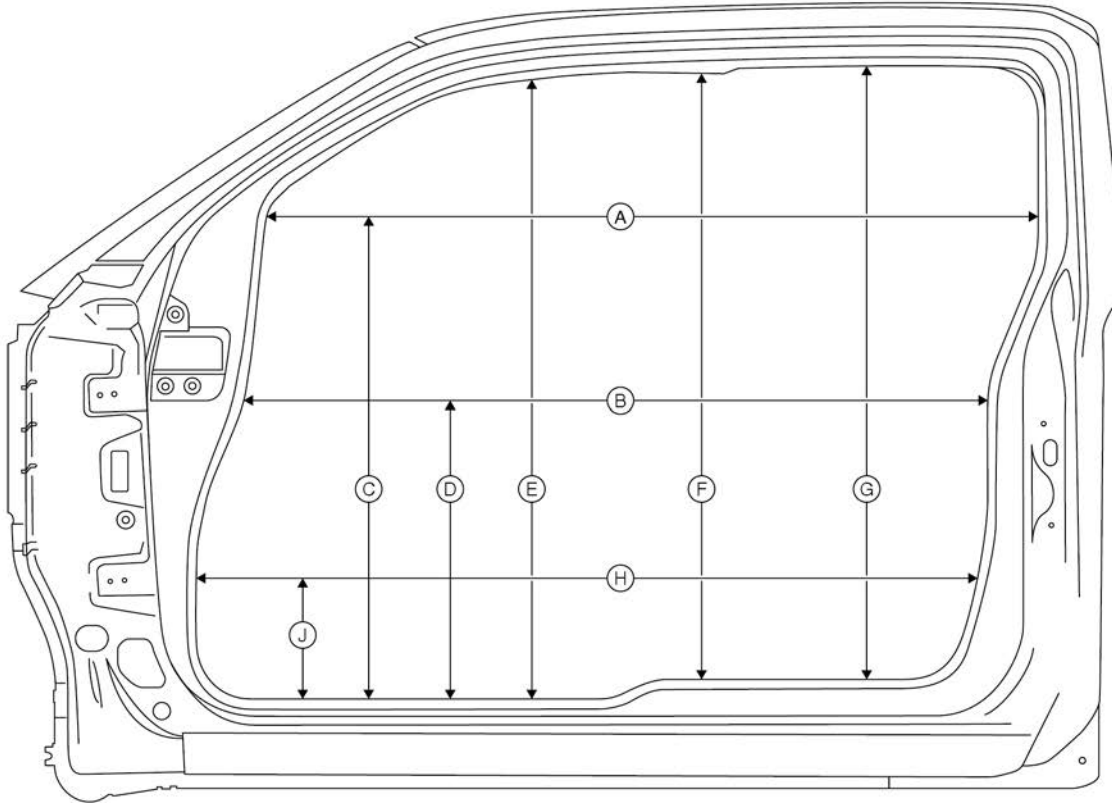
A. 347.1 mm (13.7 in)
D. 432.2 mm (17.0 in)

B. 406.2 mm (16.0 in)

C. 467.6 mm (18.4 in)

EXTERIOR – KING CAB®

Door Opening Measurements



TGAAZIA0272ZZ

Without Door Seal and Interior Trim

A. 1,367.0 mm (53.8 in)

B. 1,321.4 mm (52.0 in)

C. 875.8 mm (34.5 in)

D. 538.9 mm (21.2 in)

E. 1,109.9 mm (43.7 in)

F. 1,080.9 mm (42.6 in)

G. 1,094.8 mm (43.1 in)

H. 1,387.9 mm (54.6 in)

J. 218.6 mm (8.6 in)

With Door Seal and Interior Trim

A. 1,361.0 mm (53.6 in)

B. 1,315.4 mm (51.8 in)

C. 869.8 mm (34.2 in)

D. 532.9 mm (21.0 in)

E. 1,103.9 mm (43.5 in)

F. 1,074.9 mm (42.3 in)

G. 1,088.8 mm (42.9 in)

H. 1,381.9 mm (54.4 in)

J. 212.6 mm (8.4 in)

Doors and Mirrors Dimensions

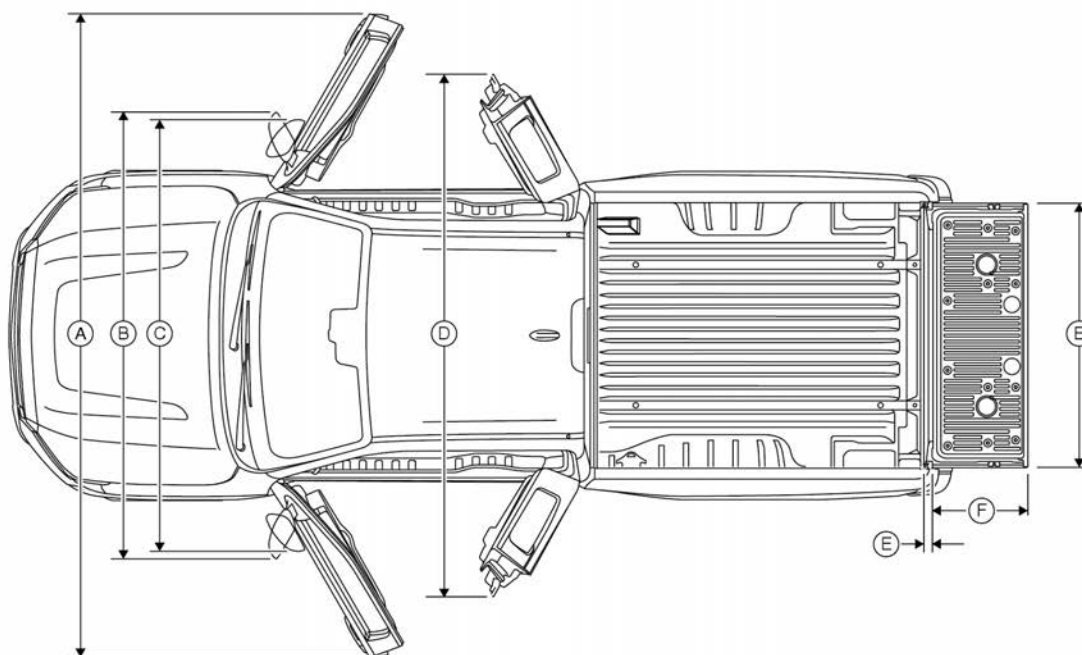
Overhead View

NOTE:

Removal of the bed is not authorized by Nissan.

**WARNING:**

For vehicles equipped with Blind Spot Warning (BSW) System or Around View® Monitor System, do not alter the outside mirrors. Doing so may cause the system(s) to operate improperly.



TGAAZIA0273ZZ

A. 3,614.4 mm (142.3 in)

B. With Mirrors Extended:
2,134.0 mm (84.0 in)C. With Mirrors Folded:
1,930.4 mm (76.0 in)

D. 2,997.2 mm (118.0 in)

E. 1,491.0 mm (58.7 in)

F. 533.4 mm (21.0 in)

G. 69.0 mm (2.7 in)

Exterior Overall Dimensions — 2022-2023 (early production) Model Years

NOTE:

Check battery orientation to identify 2023 model year early or late production, refer to [How to identify Early/Late production \(pg. 81\)](#)

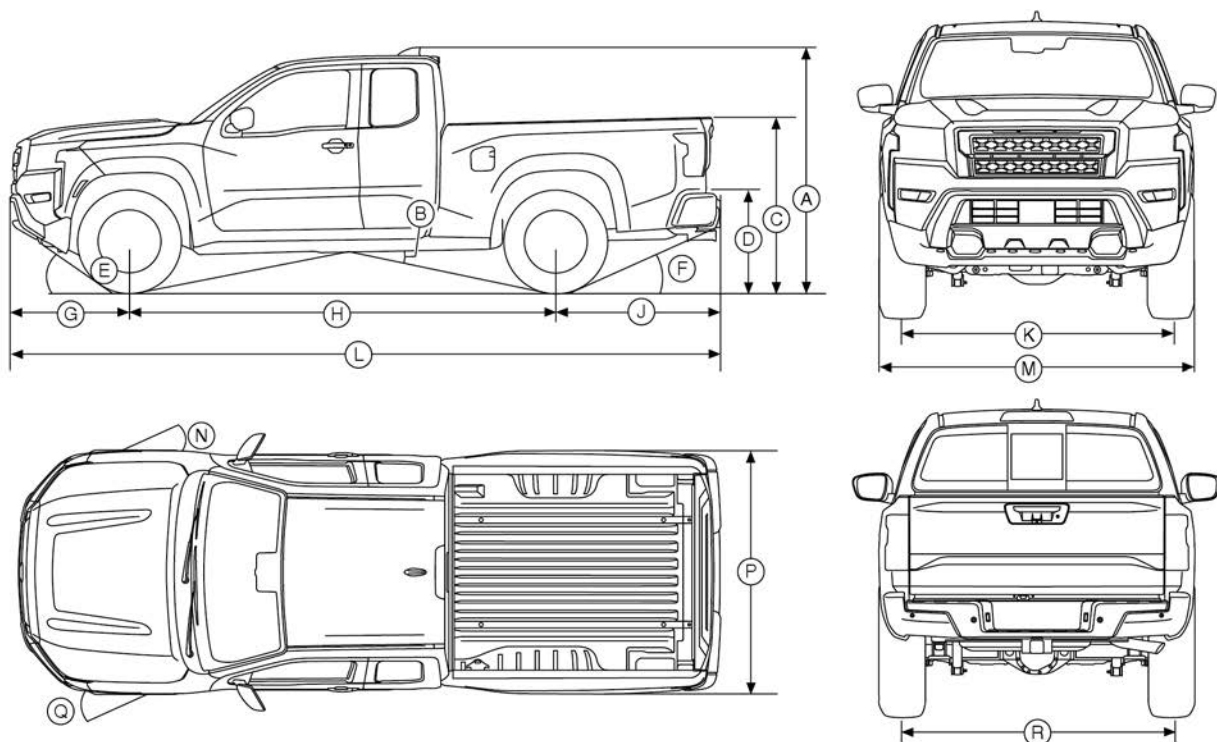
NOTE:

Removal of the bed is not authorized by Nissan.



WARNING:

For vehicles equipped with Blind Spot Warning (BSW) System or Around View® Monitor System, do not alter the outside mirrors. Doing so may cause the system(s) to operate improperly.



TGAAZIA0274ZZ

A. S (2WD) 1,821.6 mm (71.7 in)
S (4WD) 1,831.5 mm (72.1 in)
SV (2WD) 1,812.9 mm (71.4 in)
SV (4WD) 1,823.5 mm (71.8 in)
PRO-4X (4WD) 1,845.8 mm (72.7 in)

B. Breakover/Rampover Angle:
S (2WD) 19.9°
S (4WD) 20.7°
SV (2WD) 19.3°
SV (4WD) 20.1°
PRO-4X (4WD) 19.6°

C. S (2WD) 1,299.3 mm (51.2 in)
S (4WD) 1,308.2 mm (51.5 in)
SV (2WD) 1,293.9 mm (50.9 in)
SV (4WD) 1,303.2 mm (51.3 in)

D. S (2WD) 795.3 mm (31.3 in)
 S (4WD) 803.8 mm (31.6 in)
 SV (2WD) 789.8 mm (31.1 in)
 SV (2WD w/trim) 808.1 mm
 (31.8 in)
 SV (4WD) 798.8 mm (31.4 in)
 SV (4WD w/trim) 817.1 mm (32.2 in)

E. Approach Angle (with front
 license plate bracket installed):

S (2WD) 24.6°
 S (4WD) 25.4°
 SV (2WD) 24.0°
 SV (4WD) 24.8°
 PRO-4X (4WD) 26.4°

F. Departure Angle:

S (2WD w/o hitch) 22.1°
 S (2WD w/hitch) 18.1°
 S (4WD w/o hitch) 22.4°
 S (4WD w/hitch) 18.5°
 SV (2WD w/o hitch) 21.6°
 SV (2WD w/hitch) 17.6°
 SV (4WD w/o hitch) 22.0°
 SV (4WD w/hitch) 18.1°
 PRO-4X (4WD) 23.1°
 PRO-4X (4WD w/hitch) 19.2°

G. 892.3 mm (35.1 in)
 K. 1,570.0 mm (61.8 in)

H. 3,200.0 mm (126.0 in)
 L. 5,338.1 mm (210.2 in)

J. 1,245.9 mm (49.1 in)
 M. S/SV 1,840.0 mm (72.4 in)
 PROX 1,850.0 mm (72.8 in)

N. S/SV (2WD) 31.35°
 S/SV (4WD) 31.7°
 R. S/SV 1570.0 mm (61.8 in)

P. (w/o mirrors) 1,853.5 mm
 (73.0 in)

Q. S/SV (2WD) 35.45°
 S/SV (4WD) 35.6°

Exterior Overall Dimensions — 2023 Model Year (late production) and 2024 Model Year

NOTE:

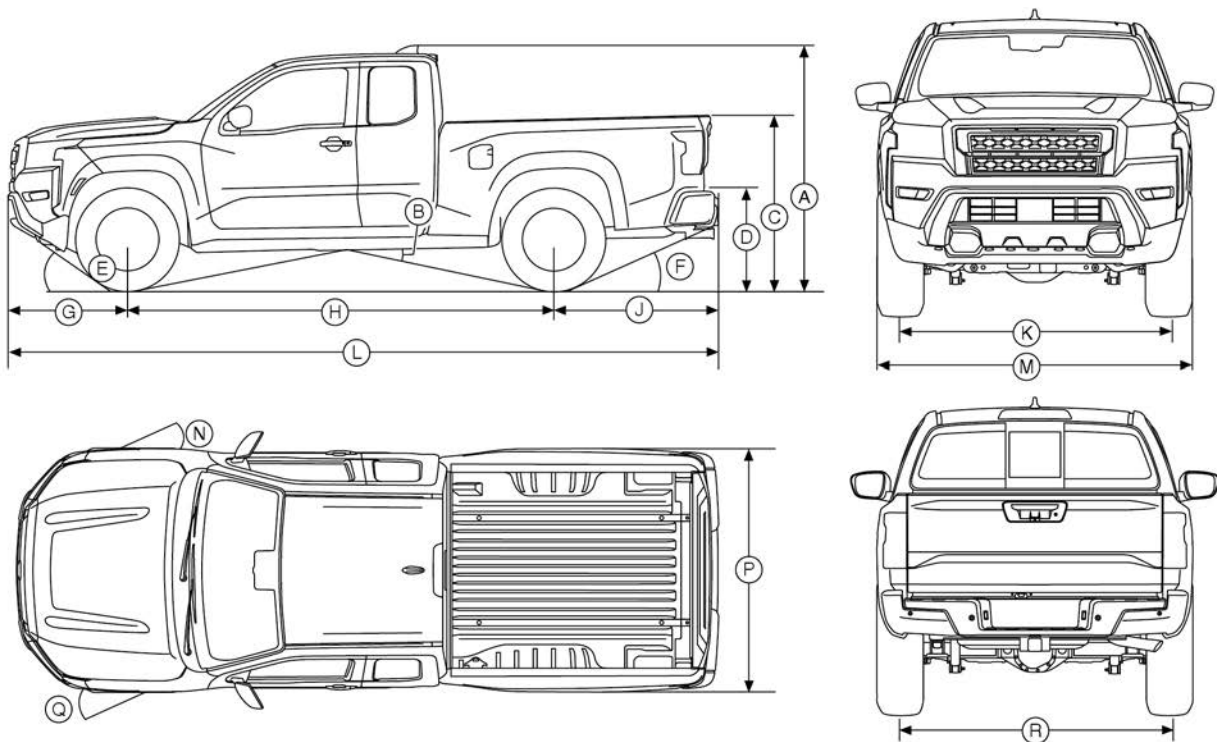
Check battery orientation to identify 2023 model year early or late production, refer to [How to identify Early/Late production \(pg. 81\)](#)

NOTE:

Removal of the bed is not authorized by Nissan.

**WARNING:**

For vehicles equipped with Blind Spot Warning (BSW) System or Around View® Monitor System, do not alter the outside mirrors. Doing so may cause the system(s) to operate improperly.



TGAAZIA0274ZZ

A. S, SV base (2WD) 1,815.6 mm (71.5 in)
 S, SV base (4WD) 1,831.5 mm (72.1 in)
 SV * (2WD) 1,807.6 mm (71.2 in)
 SV * (4WD) 1,823.5 mm (71.8 in)
 PRO-4X (4WD) 1,845.8 mm (72.7 in)

B. Breakover/Rampover Angle:
 S, SV base (2WD) 19.5°
 S, SV base (4WD) 20.7°
 SV * (2WD) 18.9°
 SV * (4WD) 20.1°
 PRO-4X (4WD) 19.6°

C. S, SV base (2WD) 1,294.6 mm (51.0 in)
 S, SV base (4WD) 1,308.2 mm (51.5 in)
 SV * (2WD) 1,286.7 mm (50.7 in)
 SV * (4WD) 1,300.6 mm (51.2 in)

D. S, SV base (2WD) 790.8 mm (31.1 in)
 S, SV base (4WD) 804.3 mm (31.7 in)
 SV * (2WD) 782.8 mm (30.8 in)
 SV * (2WD w/trim) 801.1 mm (31.5 in)
 SV * (4WD) 796.3 mm (31.4 in)
 SV * (4WD w/trim) 814.6 mm (32.1 in)

E. Approach Angle (with front license plate bracket installed):

S, SV base (2WD) 29.8°
 S, SV base (4WD) 31.4°
 SV * (2WD) 29.0°
 SV * (4WD) 30.6°
 PRO-4X (4WD) 26.4°

F. Departure Angle:

S, SV base (2WD w/o hitch) 21.8°
 S, SV base (2WD w/hitch) 17.8°
 S, SV base (4WD w/o hitch) 22.4°
 S, SV base (4WD w/hitch) 18.5°
 SV * (2WD w/o hitch) 21.4°
 SV * (2WD w/hitch) 17.4°
 SV * (4WD w/o hitch) 22.0°
 SV * (4WD w/hitch) 18.1°
 PRO-4X (4WD) 23.1°
 PRO-4X (4WD w/hitch) 19.2°

G. 892.3 mm (35.1 in)
 K. 1,570.0 mm (61.8 in)

H. 3,200.0 mm (126.0 in)
 L. 5,338.1 mm (210.2 in)

N. S/SV (2WD) 31.35°
 S/SV (4WD) 31.7°
 R. S/SV 1570.0 mm (61.8 in)

P. (w/o mirrors) 1,853.5 mm (73.0 in)

J. 1,245.9 mm (49.1 in)
 M. S/SV 1,840.0 mm (72.4 in)
 PROX 1,850.0 mm (72.8 in)
 Q. S/SV (2WD) 35.45°
 S/SV (4WD) 35.6°

*1: SV w/ comfort & convenience package w/ 17" wheels.

Exterior Overall Dimensions — Starting 2025 Model Year

NOTE:

Check battery orientation to identify 2023 model year early or late production, refer to [How to identify Early/Late production \(pg. 81\)](#)

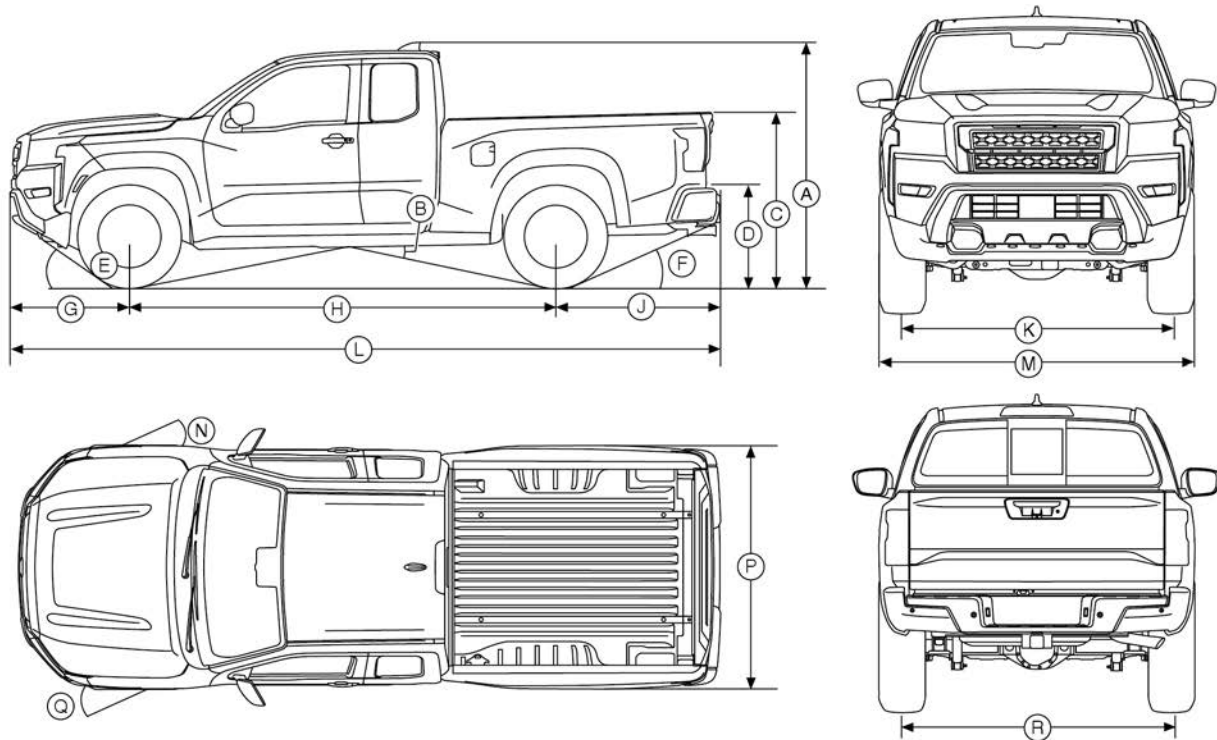
NOTE:

Removal of the bed is not authorized by Nissan.



WARNING:

For vehicles equipped with Blind Spot Warning (BSW) System or Around View® Monitor System, do not alter the outside mirrors. Doing so may cause the system(s) to operate improperly.



TGAAZIA0274ZZ

2WD Models

A. S 1,815.6 mm (71.5 in)
SV 1,807.6 mm (71.2 in)

B. Breakover/Rampover Angle:
S 19.5°
SV 18.9°

C. S 1294.6 mm (51.0 in)
SV 1286.7 mm (50.7 in)

D. S 790.8 mm (31.1 in)
SV (w/o trim) 782.8 mm (30.8 in)
SV (w/trim) 801.1 mm (31.5 in)

E. Approach Angle (with front
license plate bracket installed):
S 29.8°
SV 29.0°

F. Departure Angle:
S (w/o hitch) 21.8°
S (w/hitch) 17.8°
SV (w/o hitch) 21.4°
SV (w/hitch) 17.4°

G. 892.3 mm (35.1 in)	H. 3,200.0 mm (126.0 in)	J. 1,245.9 mm (49.1 in)
K. 1,570.0 mm (61.8 in)	L. 5,338.1 mm (210.2 in)	M. S/SV 1,840.0 mm (72.4 in)
N. S/SV 31.35°	P. (w/o mirrors)	Q. S/SV 35.45°
R. S/SV 1570.0 mm (61.8 in)	1,853.5 mm (73.0 in)	

4WD Models

A. S 1,831.5 mm (72.1 in) SV 1,823.5 mm (71.8 in) PRO-4X 1,845.8 mm (72.7 in)	B. Breakover/Rampover Angle: S 20.7° SV 20.1° PRO-4X 19.6°	C. S 1,308.6 mm (51.5 in) SV 1300.6 mm (51.2 in) PRO-4X 1,322.2 mm (52.1 in)
D. S 804.3 mm (31.7 in) SV (w/o trim) 796.3 mm (31.4 in) SV (w/trim) 814.6 mm (32.1 in) PRO-4X (w/o trim) 817.8 mm (32.2 in) PRO-4X (w/trim) 836.1 mm (32.9 in)	E. Approach Angle (with front license plate bracket installed): S 31.4° SV 30.6° PRO-4X 32.3°	F. Departure Angle: S (w/o hitch) 22.4° S (w/hitch) 18.5° SV (w/o hitch) 22.0° SV (w/hitch) 18.1° PRO-4X (w/o hitch) 23.1° PRO-4X (w/hitch) 19.2°
G. 892.3 mm (35.1 in) K. 1,570.0 mm (61.8 in)	H. 3,200.0 mm (126.0 in) L. 5,338.1 mm (210.2 in)	J. 1,245.9 mm (49.1 in) M. S/SV 1,840.0 mm (72.4 in) PROX 1,850.0 mm (72.8 in)
N. S/SV 31.7° R. S/SV 1570.0 mm (61.8 in)	P. S, SV (w/o mirrors) 1,853.5 mm (73.0 in) PRO-4X 1896.5 mm (74.7 in)	Q. S/SV 35.6°

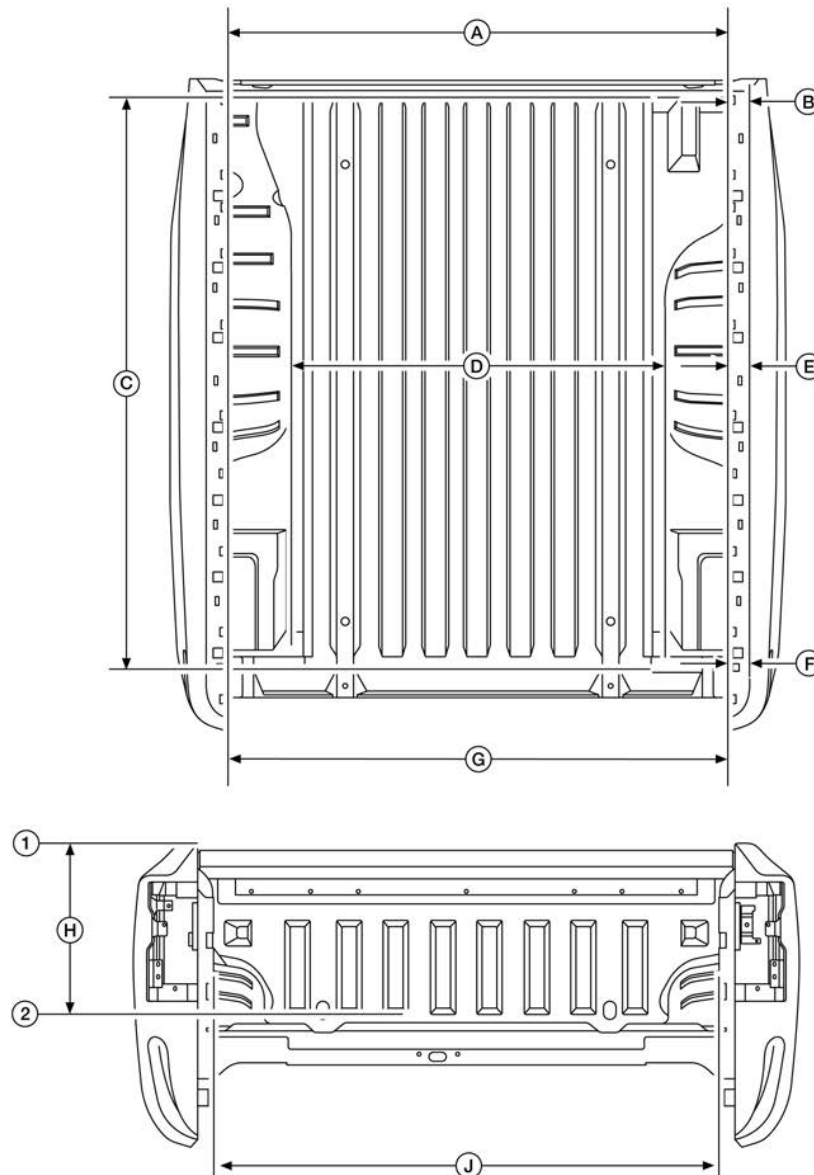
Bed Dimensions

NOTE:

Removal of the bed is not authorized by Nissan.

NOTE:

All measurements in this section are taken from metal surface to metal surface. The nominal thickness of the spray-in bed liner is 1.5 mm (0.06 in).



TGAZIA0264ZZ

1. Top of bed side cap

2. Top of bed floor ribs

A. Maximum cargo width at front of bed: 1,560.0 mm (61.4 in)

B. Width of bed side cap at front: 41.8 mm (1.7 in)

C. Maximum cargo length: 1,845.5 mm (72.7 in) with bedliner and tailgate liner
1,861.5 mm (73.3 in) without bedliner and tailgate liner

D. Maximum cargo width between wheel wells: 1,114.2 mm (43.9 in)

E. Width of bed side cap at center:
49.7 mm (2.0 in)

H. Height of bed: 494.0 (19.5)

F. Width of bed side cap at
rear: 42.5 mm (1.7 in)

J. Maximum cargo width
tailgate opening:
1,404.3 mm (55.3 in)

G. Maximum cargo width at rear
of bed: 1,500.7 mm (59.1 in)

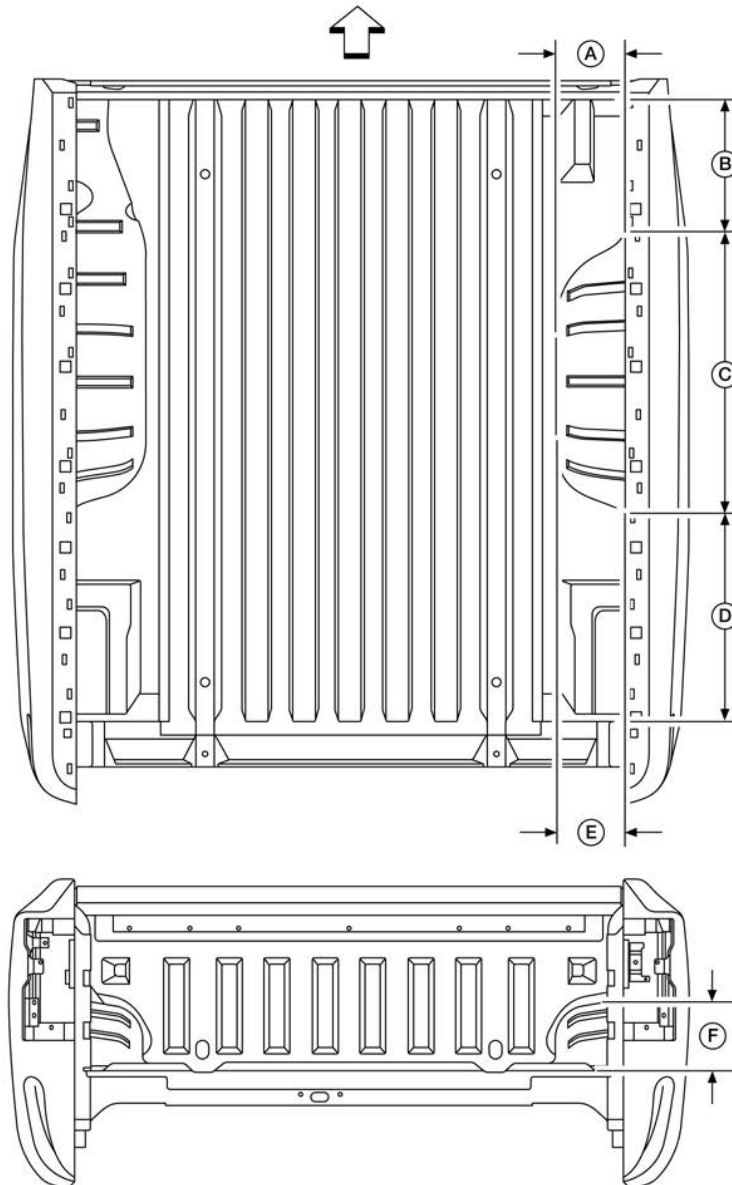
Wheel Well Clearance

NOTE:

Removal of the bed is not authorized by Nissan.

NOTE:

All measurements in this section are taken from metal surface to metal surface. The nominal thickness of the spray-in bed liner is 1.5 mm (0.06 in).



TGAAZIA0266ZZ

↔: Front of vehicle.

A. 185.1 mm (7.3 in)
D. 550.6 mm (21.7 in)

B. 379.4 mm (14.9 in)
E. 185.1 mm (7.3 in)

C. 760.5 mm (29.9 in)
F. 185.0 mm (7.3 in)

Tie-Down Hooks

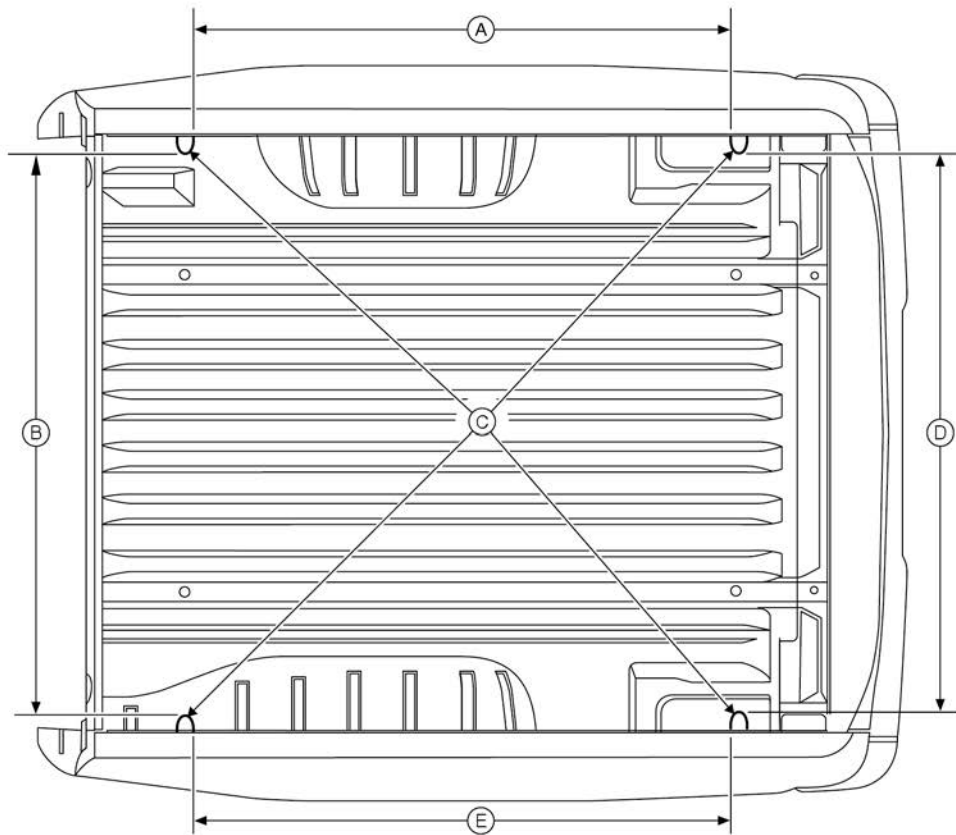
NOTE:

Removal of the bed is not authorized by Nissan.

NOTE:

All measurements in this section are taken from metal surface to metal surface. The nominal thickness of the spray-in bed liner is 1.5 mm (0.06 in).

Overhead View



TGAAZIA0268ZZ

**WARNING:**

Do not exceed the maximum tie-down hook loading of 5,250 N (1,180.2 lbs.) per tie-down.

A. 1,378.8 mm (54.3 in)

B. 1,632.6 mm (64.3 in)

C. 2,112.5 mm (83.2 in)

D. 1,560.5 mm (61.4 in)

E. 1,378.8 mm (54.3 in)

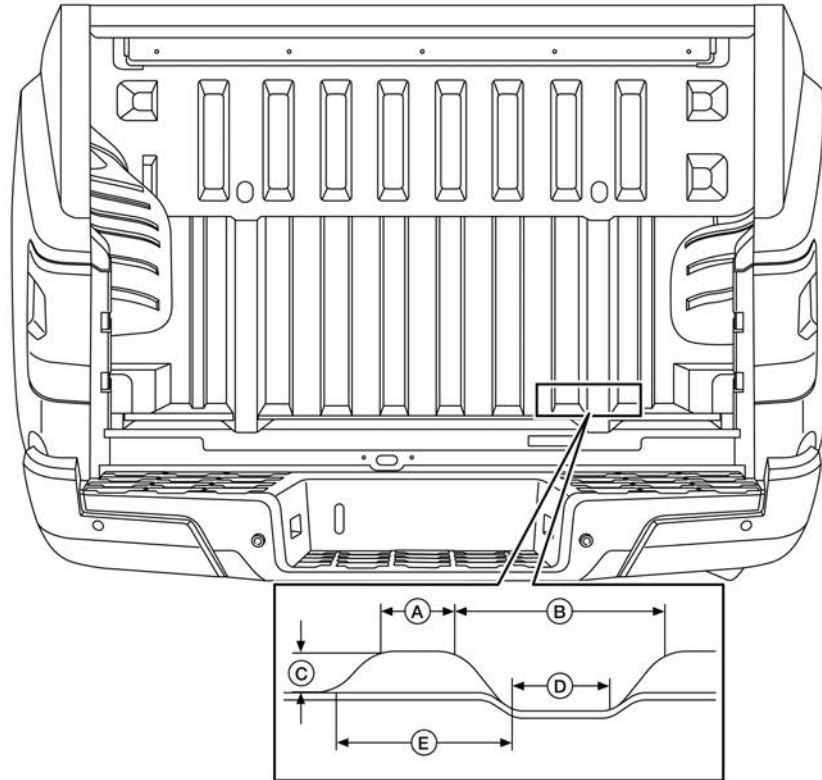
Bed Rib Dimensions

NOTE:

Removal of the bed is not authorized by Nissan.

NOTE:

All measurements in this section are taken from metal surface to metal surface. The nominal thickness of the spray-in bed liner is 1.5 mm (0.06 in).



TGAAZIA0269ZZ

A. 44.5 mm (1.8 in)

B. 95.2 mm (3.8 in)

C. 22.0 mm (0.9 in)

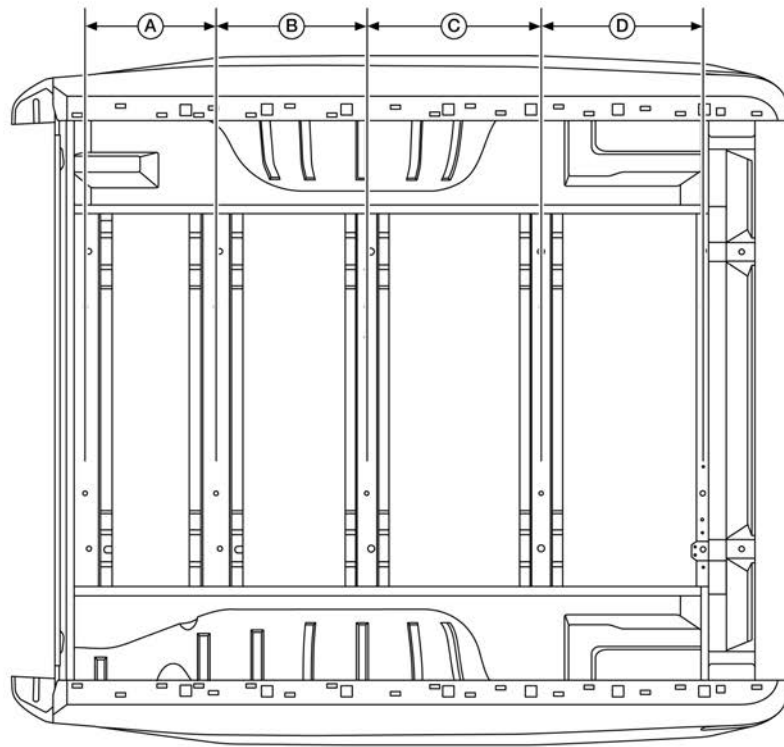
D. 44.5 mm (1.8 in)

E. 76.2 mm (3.0 in)

Bed Support Dimensions

NOTE:

Removal of the bed is not authorized by Nissan.



TGAZIA0271ZZ

↖: Front of vehicle.

A. 347.1 mm (13.7 in)

B. 406.2 mm (16.0 in)

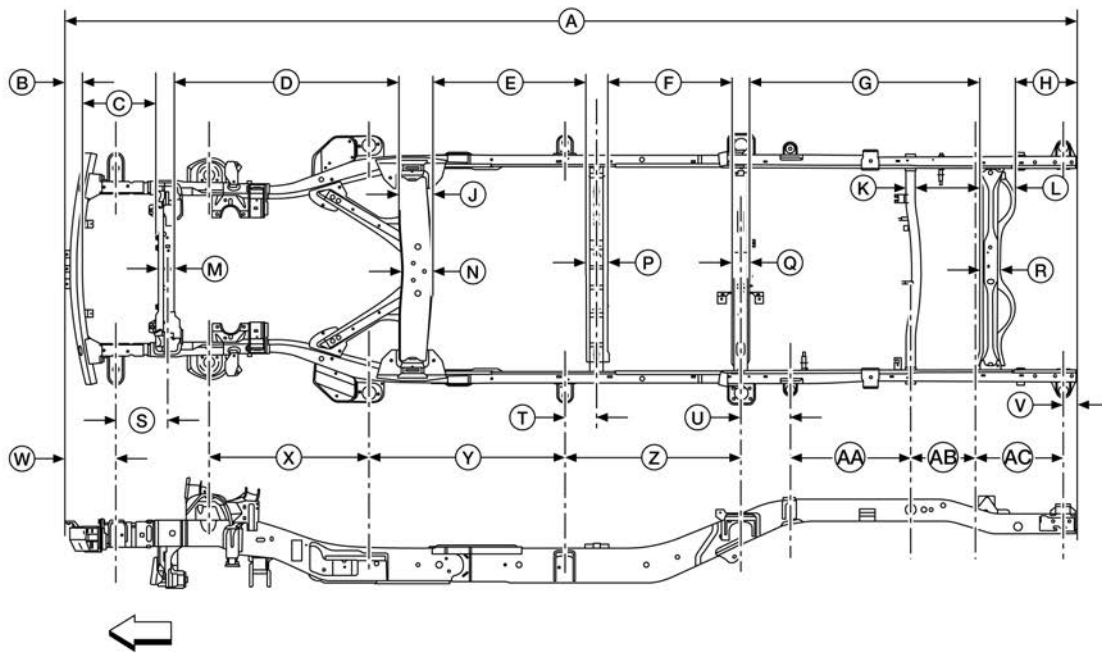
C. 467.6 mm (18.4 in)

D. 432.2 mm (17.0 in)

FRAME/BODY

Crossmember and Body Mount Dimensions

Crew Cab — 2WD



TGAZIA0246ZZ

←: Front of vehicle.

A. 4,949.8 mm (194.9 in)

D. 1,097.2 mm (43.1 in)

G. 1,113.3 mm (44.0 in)

K. 45.9 mm (1.8 in)

N. 150.9 mm (5.9 in)

R. 95.3 mm (3.8 in)

U. 257.6 mm (10.1 in)

X. 801.3 mm (31.5 in)

AA. 579.9 mm (22.8 in)

B. 158.7 mm (6.2 in)

E. 749.4 mm (29.5 in)

H. 315.6 mm (12.4 in)

L. 173.7 mm (6.8 in)

P. 105.2 mm (4.1 in)

S. 261.8 mm (10.3 in)

V. 69.3 mm (2.7 in)

Y. 945.6 mm (37.2 in)

AB. 315.2 mm (12.4 in)

C. 452.7 mm (17.8 in)

F. 688.1 mm (27.1 in)

J. 155.0 mm (6.1 in)

M. 80.6 mm (3.2 in)

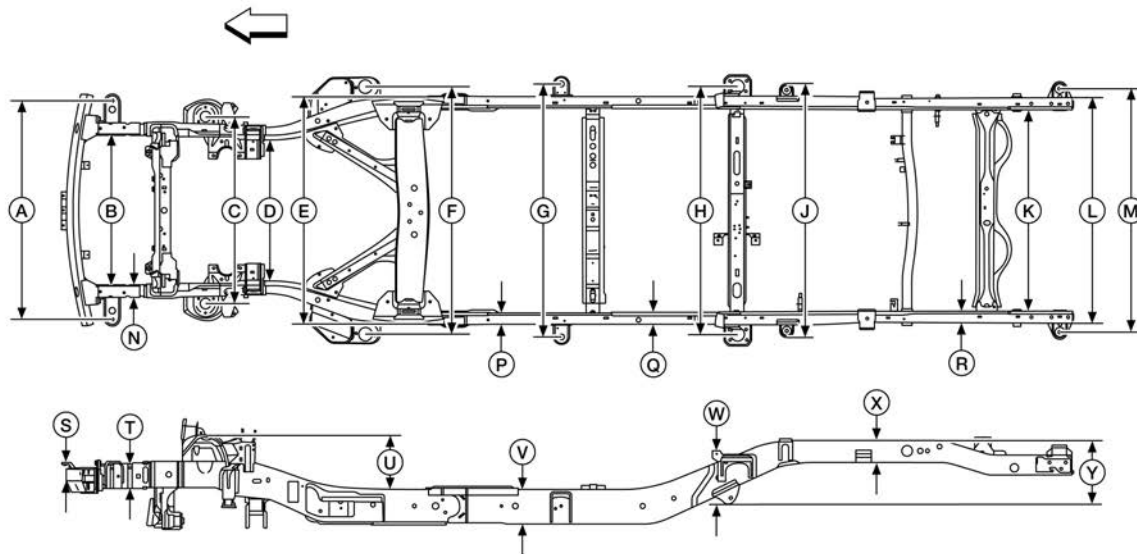
Q. 88.9 mm (3.5 in)

T. 216.86 mm (8.5 in)

W. 248.6 mm (9.8 in)

Z. 868.6 mm (34.2 in)

AC. 435.5 mm (17.1 in)

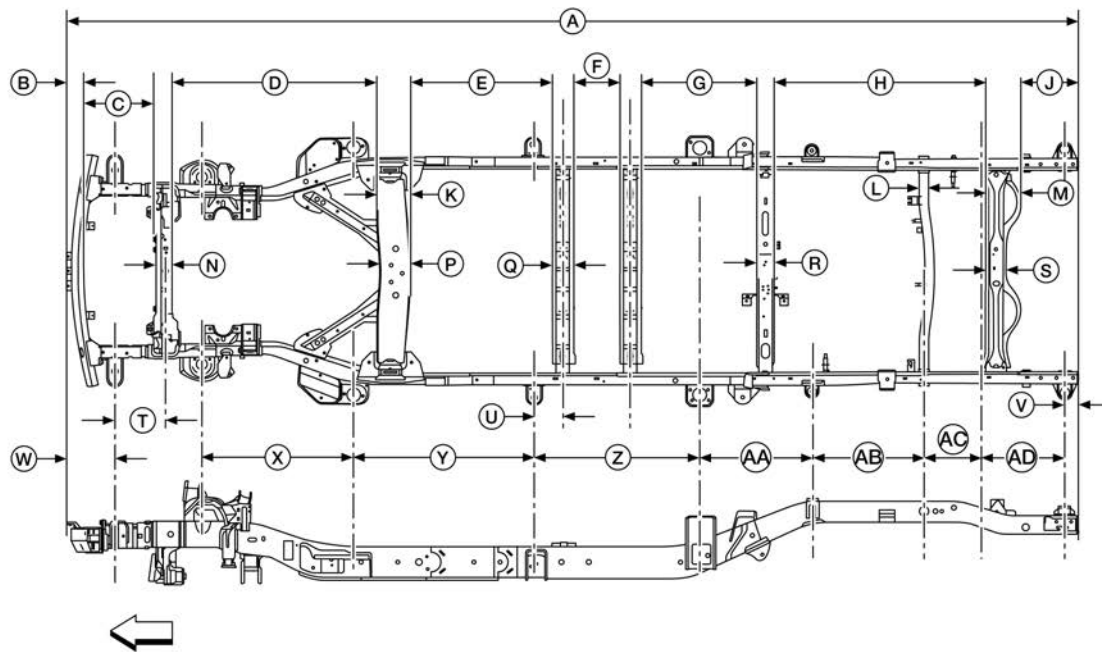


TGAAZIA0247ZZ

↖: Front of vehicle.

A. 1,131.4 mm (44.5 in)	B. 794.9 mm (31.3 in)	C. 967.1 mm (38.1 in)
D. 716.1 mm (28.2 in)	E. 1,186.7 mm (46.7 in)	F. 1,286.4 mm (50.6 in)
G. 1,306.7 mm (51.4 in)	H. 1,291.9 mm (51.0 in)	J. 1,328.8 mm (52.3 in)
K. 1,035.4 mm (40.8 in)	L. 1179.4 mm (46.4 in)	M. 1,266.1 mm (50.0 in)
N. 85.0 mm (3.3 in)	P. 75.5 mm (3.0 in)	Q. 67.7 mm (2.7 in)
R. 71.2 mm (2.8 in)	S. 109.0 mm (4.3 in)	T. 139.7 mm (5.5 in)
U. 235.3 mm (9.3 in)	V. 182.1 mm (7.2 in)	W. 266.0 mm (10.5 in)
X. 114.6 mm (4.5 in)	Y. 315.9 mm (12.4 in)	

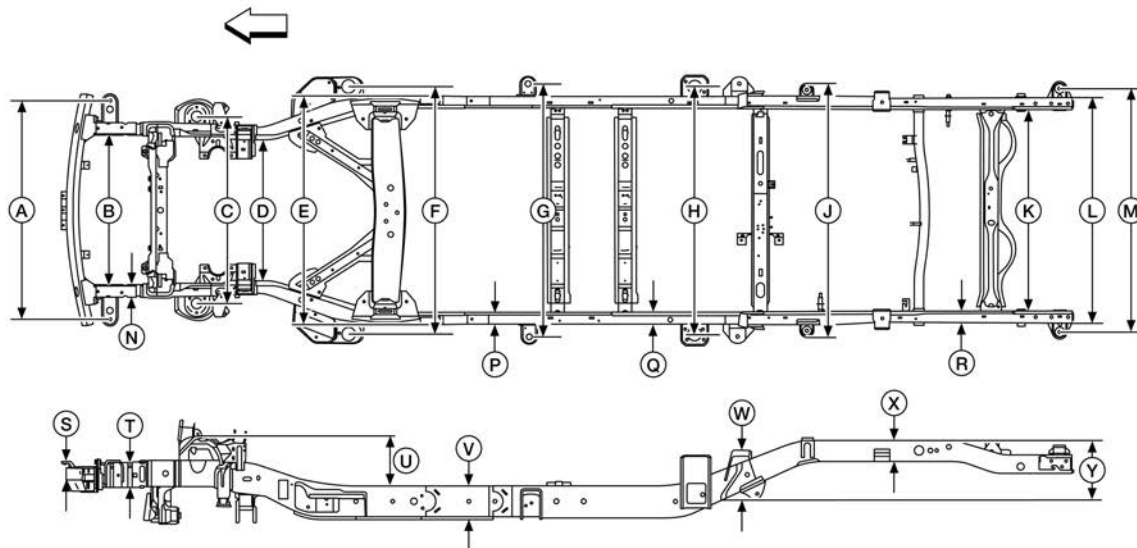
Crew Cab — 2WD (Long Wheelbase)



TGAAZIA0248ZZ

↩: Front of vehicle.

A. 5,305.1 mm (208.9 in)	B. 158.7 mm (6.2 in)	C. 452.7 mm (17.8 in)
D. 1,097.2 mm (43.1 in)	E. 749.4 mm (29.5 in)	F. 244.0 mm (9.6 in)
G. 602.0 mm (23.7 in)	H. 1,098.2 mm (43.2 in)	J. 318.4 mm (12.5 in)
K. 155.0 mm (6.1 in)	L. 45.9 mm (1.8 in)	M. 173.7 mm (6.8 in)
N. 80.6 mm (3.2 in)	P. 105.2 mm (4.1 in)	Q. 88.9 mm (3.5 in)
R. 95.3 mm (3.8 in)	S. 261.8 mm (10.3 in)	T. 216.9 mm (8.5 in)
U. 257.6 mm (10.1 in)	V. 69.3 mm (2.7 in)	W. 248.6 mm (9.8 in)
X. 801.3 mm (31.5 in)	Y. 945.6 mm (37.2 in)	Z. 868.6 mm (34.2 in)
AA. 587.3 mm (23.1 in)	AB. 579.9 mm (22.8 in)	AC. 315.2 mm (12.4 in)
AD. 435.5 mm (17.1 in)		



TGAZIA0249ZZ

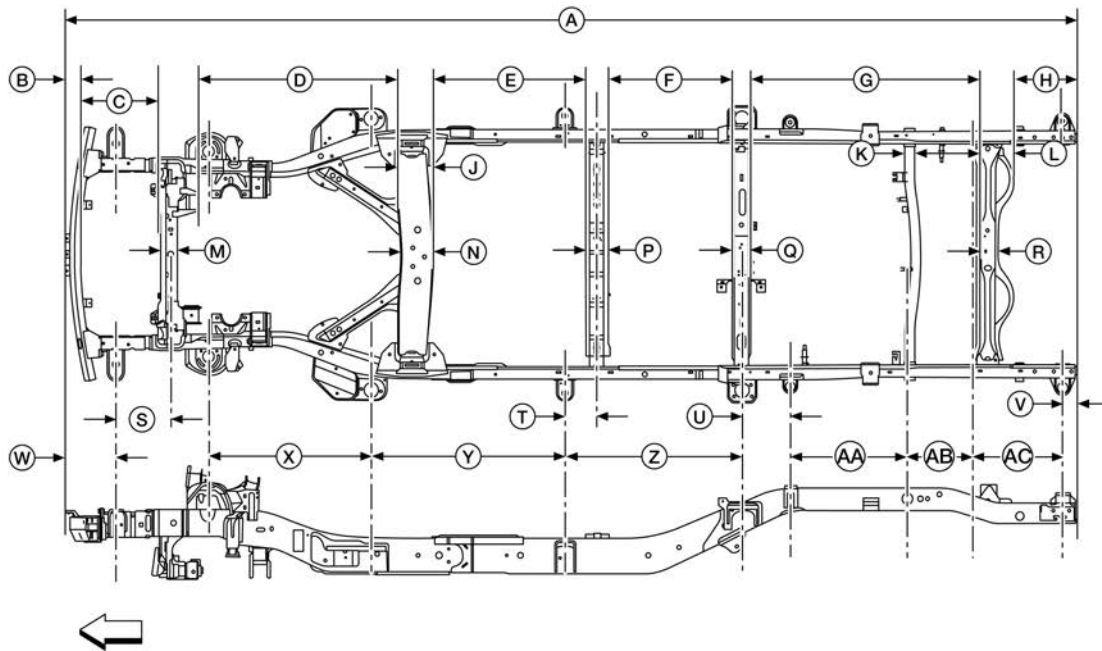
↖: Front of vehicle.

A. 1,131.4 mm (44.5 in)
 D. 716.1 mm (28.2 in)
 G. 1,306.7 mm (51.4 in)
 K. 1,035.4 mm (40.8 in)
 N. 85.0 mm (3.3 in)
 R. 71.2 mm (2.8 in)
 U. 235.3 mm (9.3 in)
 X. 114.6 mm (4.5 in)

B. 794.9 mm (31.3 in)
 E. 1,186.7 mm (46.7 in)
 H. 1,291.9 mm (51.0 in)
 L. 1,179.4 mm (46.4 in)
 P. 75.5 mm (3.0 in)
 S. 109.0 mm (4.3 in)
 V. 182.1 mm (7.2 in)
 Y. 315.9 mm (12.4 in)

C. 967.1 mm (38.1 in)
 F. 1,286.4 mm (50.6 in)
 J. 1,328.8 mm (52.3 in)
 M. 1,266.1 mm (50.0 in)
 Q. 67.7 mm (2.7 in)
 T. 139.7 mm (5.5 in)
 W. 266.0 mm (10.5 in)

Crew Cab — 4WD



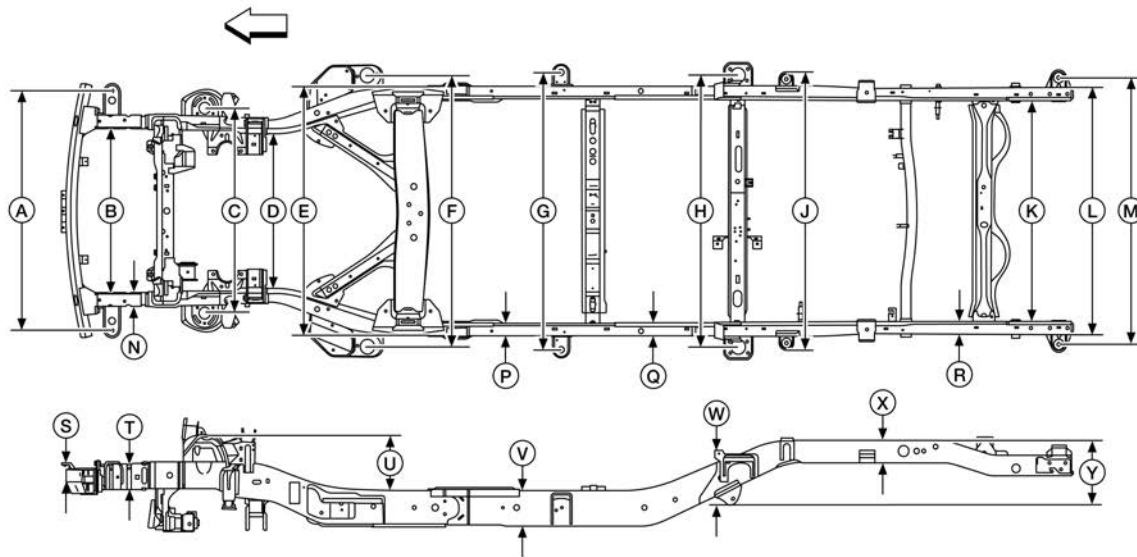
TGAZIA0250ZZ

↩: Front of vehicle.

A. 4,949.8 mm (194.9 in)
 D. 1,097.2 mm (43.1 in)
 G. 1,113.3 mm (44.0 in)
 K. 45.9 mm (1.8 in)
 N. 150.9 mm (5.9 in)
 R. 95.3 mm (3.8 in)
 U. 257.6 mm (10.1 in)
 X. 801.3 mm (31.5 in)
 AA. 579.9 mm (22.8 in)

B. 158.7 mm (6.2 in)
 E. 749.4 mm (29.5 in)
 H. 315.6 mm (12.4 in)
 L. 173.7 mm (6.8 in)
 P. 105.2 mm (4.1 in)
 S. 261.8 mm (10.3 in)
 V. 69.3 mm (2.7 in)
 Y. 945.6 mm (37.2 in)
 AB. 315.2 mm (12.4 in)

C. 452.7 mm (17.8 in)
 F. 688.1 mm (27.1 in)
 J. 155.0 mm (6.1 in)
 M. 80.6 mm (3.2 in)
 Q. 88.9 mm (3.5 in)
 T. 216.86 mm (8.5 in)
 W. 248.6 mm (9.8 in)
 Z. 868.6 mm (34.2 in)
 AC. 435.5 mm (17.1 in)

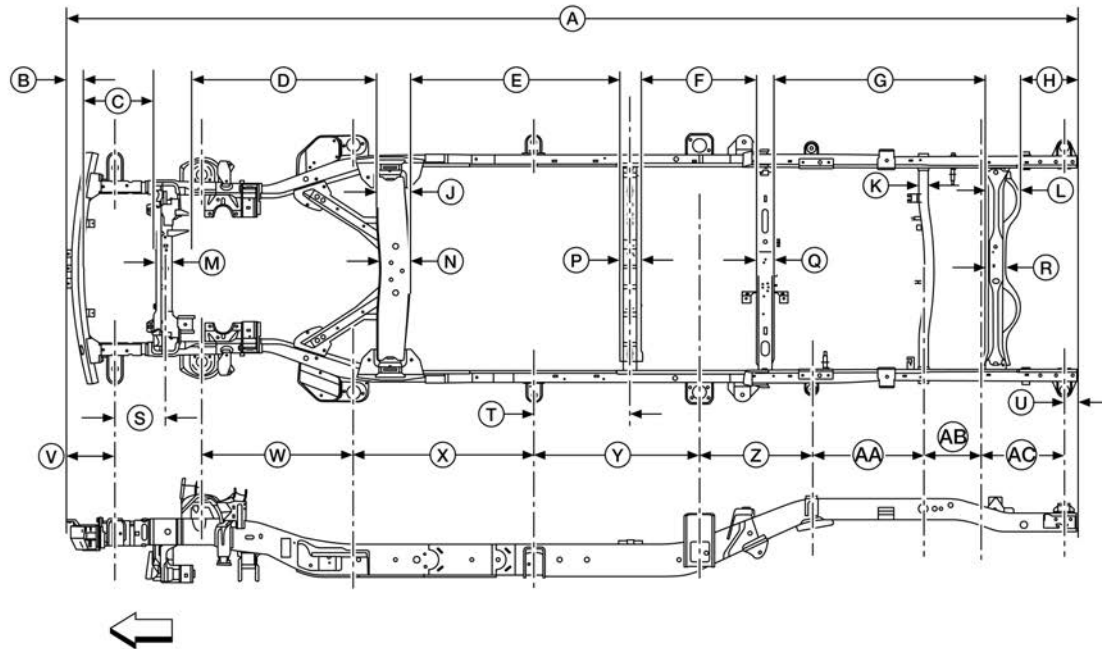


TGAZIA0251ZZ

↔: Front of vehicle.

A. 1,131.4 mm (44.5 in)	B. 794.9 mm (31.3 in)	C. 967.1 mm (38.1 in)
D. 716.1 mm (28.2 in)	E. 1,186.7 mm (46.7 in)	F. 1,286.4 mm (50.6 in)
G. 1,306.7 mm (51.4 in)	H. 1,291.9 mm (51.0 in)	J. 1,328.8 mm (52.3 in)
K. 1,035.4 mm (40.8 in)	L. 1,179.4 mm (46.4 in)	M. 1,266.1 mm (50.0 in)
N. 85.0 mm (3.3 in)	P. 75.5 mm (3.0 in)	Q. 67.7 mm (2.7 in)
R. 71.2 mm (2.8 in)	S. 109.0 mm (4.3 in)	T. 139.7 mm (5.5 in)
U. 235.3 mm (9.3 in)	V. 182.1 mm (7.2 in)	W. 266.0 mm (10.5 in)
X. 114.6 mm (4.5 in)	Y. 315.9 mm (12.4 in)	

Crew Cab — 4WD (Long Wheelbase)



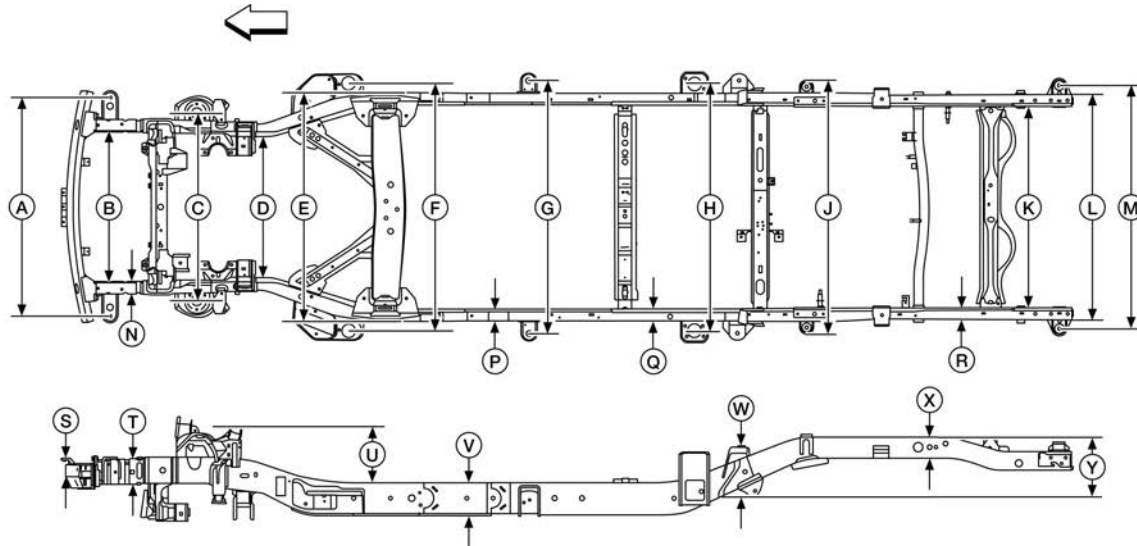
TGAAZIA025ZZZ

←: Front of vehicle.

A. 5,305.1 mm (208.9 in)
 D. 1097.2 mm (43.1 in)
 G. 1,098.2 mm (43.2 in)
 K. 45.9 mm (1.8 in)
 N. 105.2 mm (4.1 in)
 R. 261.8 mm (10.3 in)
 U. 69.3 mm (2.7 in)
 X. 945.6 mm (37.2 in)
 AA. 579.9 mm (22.8 in)

B. 158.7 mm (6.2 in)
 E. 749.4 mm (29.5 in)
 H. 318.4 mm (12.5 in)
 L. 173.7 mm (6.8 in)
 P. 88.9 mm (3.5 in)
 S. 216.9 mm (8.5 in)
 V. 248.6 mm (9.8 in)
 Y. 868.6 mm (34.2 in)
 AB. 315.2 mm (12.4 in)

C. 452.7 mm (17.8 in)
 F. 688.1 mm (27.1 in)
 J. 155.0 mm (6.1 in)
 M. 80.6 mm (3.2 in)
 Q. 95.3 mm (3.8 in)
 T. 505.7 mm (19.9 in)
 W. 801.3 mm (31.5 in)
 Z. 598.1 mm (23.5 in)
 AC. 435.5 mm (17.1 in)



TGAZIA0253ZZ

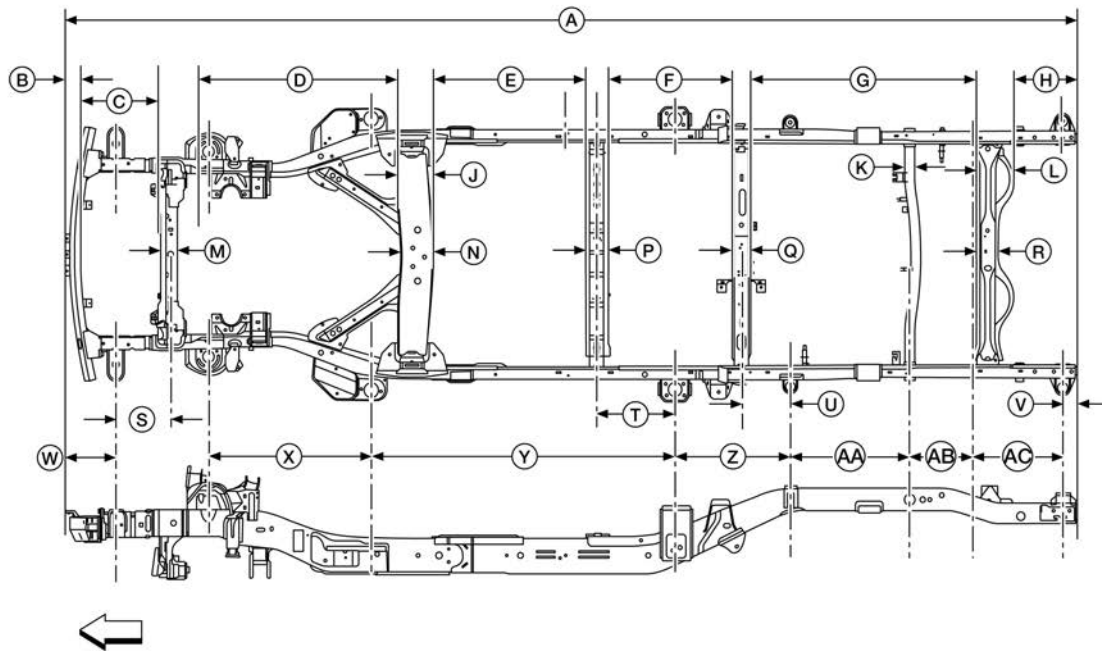
←: Front of vehicle.

A. 1,131.4 mm (44.5 in)
 D. 716.1 mm (28.2 in)
 G. 1,306.7 mm (51.4 in)
 K. 1,035.4 mm (40.8 in)
 N. 85.0 mm (3.3 in)
 R. 71.2 mm (2.8 in)
 U. 235.3 mm (9.3 in)
 X. 114.6 mm (4.5 in)

B. 794.9 mm (31.3 in)
 E. 1,186.7 mm (46.7 in)
 H. 1,291.9 mm (51.0 in)
 L. 1,179.4 mm (46.4 in)
 P. 75.5 mm (3.0 in)
 S. 109.0 mm (4.3 in)
 V. 182.1 mm (7.2 in)
 Y. 315.9 mm (12.4 in)

C. 967.1 mm (38.1 in)
 F. 1,286.4 mm (50.6 in)
 J. 1,328.8 mm (52.3 in)
 M. 1,266.1 mm (50.0 in)
 Q. 677 mm (2.7 in)
 T. 139.7 mm (5.5 in)
 W. 266.0 mm (10.5 in)

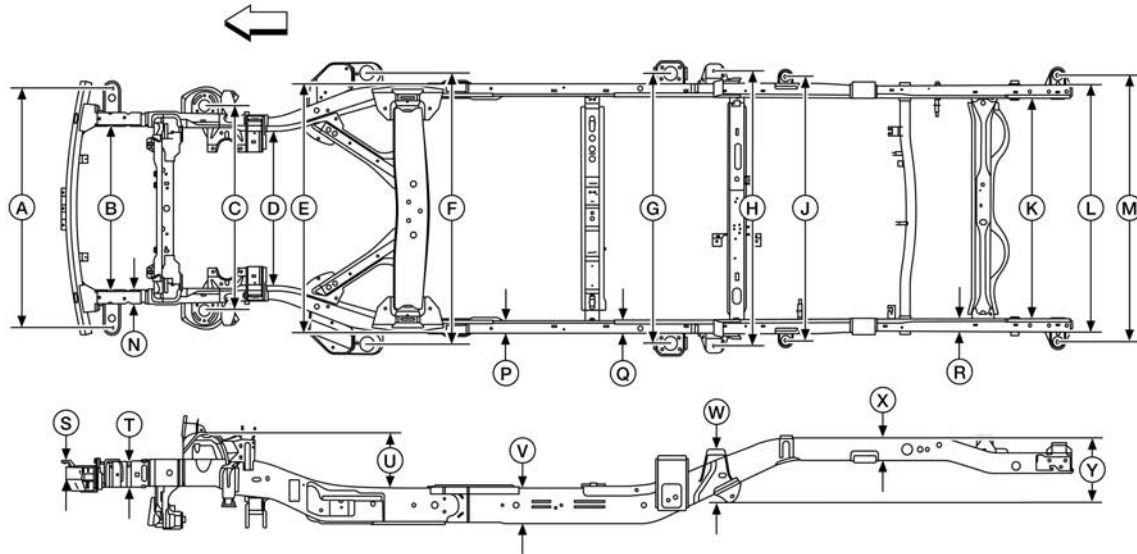
King Cab® — 2WD



TGAAZIA0254ZZ

↩: Front of vehicle.

A. 4,949.8 mm (194.9 in)	B. 158.7 mm (6.2 in)	C. 452.7 mm (17.8 in)
D. 1,097.2 mm (43.1 in)	E. 749.4 mm (29.5 in)	F. 688.1 mm (27.1 in)
G. 1,113.3 mm (44.0 in)	H. 315.6 mm (12.4 in)	J. 155.0 mm (6.1 in)
K. 45.9 mm (1.8 in)	L. 173.7 mm (6.8 in)	M. 80.6 mm (3.2 in)
N. 150.9 mm (5.9 in)	P. 105.2 mm (4.1 in)	Q. 88.9 mm (3.5 in)
R. 95.3 mm (3.8 in)	S. 261.8 mm (10.3 in)	T. 384.7 mm (15.1 in)
U. 257.6 mm (10.1 in)	V. 69.3 mm (2.7 in)	W. 248.6 mm (9.8 in)
X. 801.3 mm (31.5 in)	Y. 1,485.0 mm (58.5 in)	Z. 570.6 mm (22.5 in)
AA. 579.9 mm (22.8 in)	AB. 315.2 mm (12.4 in)	AC. 435.5 mm (17.1 in)



TGAZIA0255ZZ

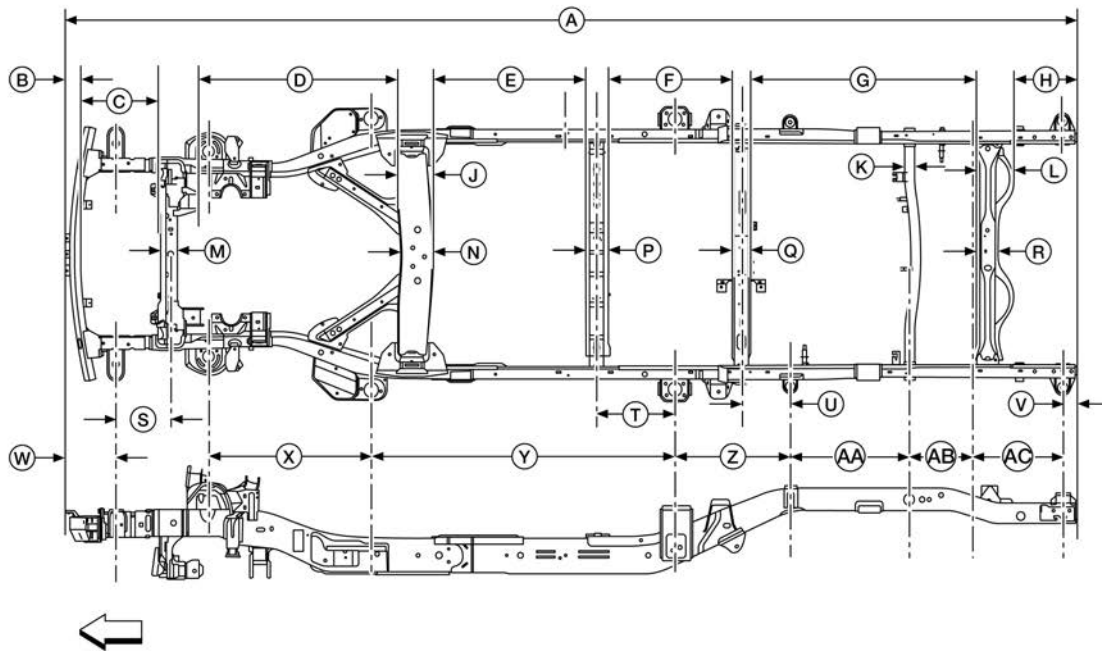
←: Front of vehicle.

A. 1,131.4 mm (44.5 in)
 D. 716.1 mm (28.2 in)
 G. 1,291.9 mm (51.0 in)
 K. 1,035.4 mm (40.8 in)
 N. 85.0 mm (3.3 in)
 R. 71.2 mm (2.8 in)
 U. 235.3 mm (9.3 in)
 X. 114.6 mm (4.5 in)

B. 794.9 mm (31.3 in)
 E. 1,186.7 mm (46.7 in)
 H. 1,306.7 mm (51.4 in)
 L. 1,179.4 mm (46.4 in)
 P. 75.5 mm (3.0 in)
 S. 109.0 mm (4.3 in)
 V. 182.1 mm (7.2 in)
 Y. 315.9 mm (12.4 in)

C. 967.1 mm (38.1 in)
 F. 1,286.4 mm (50.6 in)
 J. 1,242.4 mm (48.9 in)
 M. 1,266.1 mm (50.0 in)
 Q. 677 mm (2.7 in)
 T. 139.7 mm (5.5 in)
 W. 266.0 mm (10.5 in)

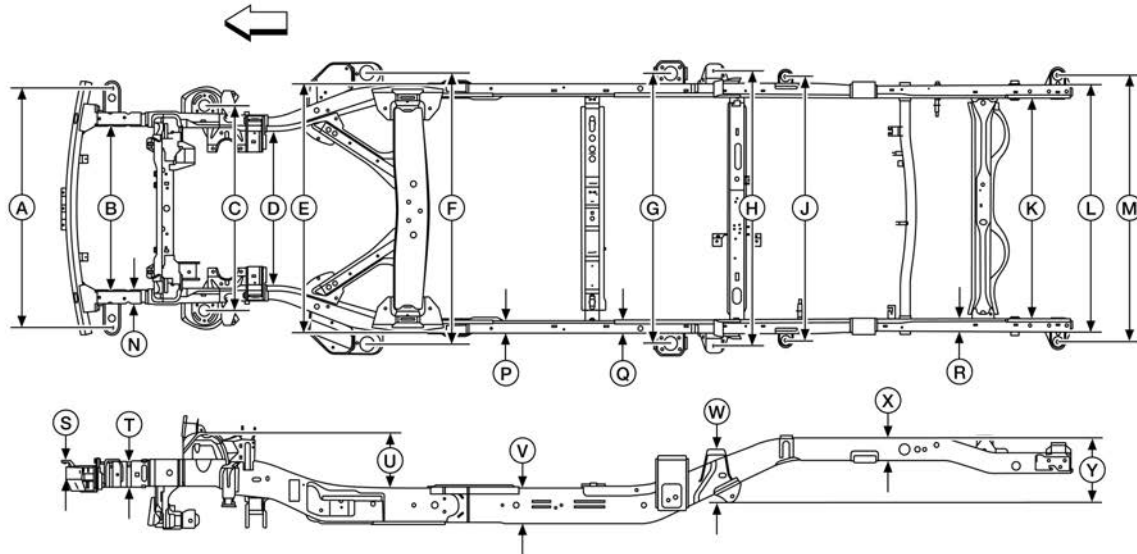
King Cab® — 4WD



TGAZIA0256ZZ

↖: Front of vehicle.

A. 4,949.8 mm (194.9 in)	B. 158.7 mm (6.2 in)	C. 452.7 mm (17.8 in)
D. 1,097.2 mm (43.1 in)	E. 749.4 mm (29.5 in)	F. 688.1 mm (27.1 in)
G. 1,113.3 mm (44.0 in)	H. 315.6 mm (12.4 in)	J. 155.0 mm (6.1 in)
K. 45.9 mm (1.8 in)	L. 173.7 mm (6.8 in)	M. 80.6 mm (3.2 in)
N. 150.9 mm (5.9 in)	P. 105.2 mm (4.1 in)	Q. 88.9 mm (3.5 in)
R. 95.3 mm (3.8 in)	S. 261.8 mm (10.3 in)	T. 384.7 mm (15.1 in)
U. 257.6 mm (10.1 in)	V. 69.3 mm (2.7 in)	W. 248.6 mm (9.8 in)
X. 801.3 mm (31.5 in)	Y. 1,485.0 mm (58.5 in)	Z. 570.6 mm (22.5 in)
AA. 579.9 mm (22.8 in)	AB. 315.2 mm (12.4 in)	AC. 435.5 mm (17.1 in)



TGAZIA0257ZZ

←: Front of vehicle.

A. 1,131.4 mm (44.5 in)
 D. 716.1 mm (28.2 in)
 G. 1,291.9 mm (51.0 in)
 K. 1,035.4 mm (40.8 in)
 N. 85.0 mm (3.3 in)
 R. 71.2 mm (2.8 in)
 U. 235.3 mm (9.3 in)
 X. 114.6 mm (4.5 in)

B. 794.9 mm (31.3 in)
 E. 1,186.7 mm (46.7 in)
 H. 1,306.7 mm (51.4 in)
 L. 1,179.4 mm (46.4 in)
 P. 75.5 mm (3.0 in)
 S. 109.0 mm (4.3 in)
 V. 182.1 mm (7.2 in)
 Y. 315.9 mm (12.4 in)

C. 967.1 mm (38.1 in)
 F. 1,286.4 mm (50.6 in)
 J. 1,242.4 mm (48.9 in)
 M. 1,266.1 mm (50.0 in)
 Q. 677 mm (2.7 in)
 T. 139.7 mm (5.5 in)
 W. 266.0 mm (10.5 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. Ignition switch OFF.
3. Push the door switch at least 20 times within 20 seconds
4. Cycle the ignition switch ON→OFF→ON within 10 seconds.

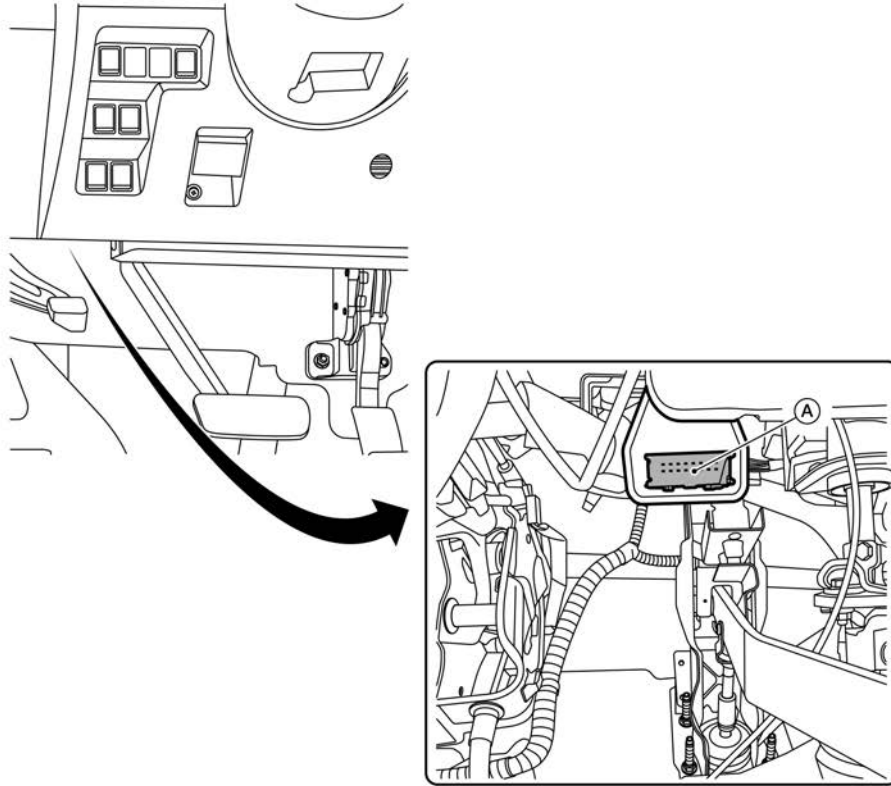
When the vehicle in this Self-Test Mode the following devices on the vehicle will momentarily operate in the order shown to verify that the systems are functioning correctly.

- Horn
- Rear defogger
- Front wipers (HI, LO)
- Front fog lamps (if so equipped)
- Tail, license, and parking lamps
- Headlamps (HI, LO)
- Air conditioner compressor (magnetic clutch)
- Engine cooling fan
- Oil pressure switch and lamp
- Alternator charge terminal and lamp
- Starter motor

After the self-test has been completed (3 on/off cycles) the vehicle will be returned to normal operating mode.

NOTE:

Ignition switch OFF during the test will terminate the test early.

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

TGAAZIA0186ZZ

Vehicles are equipped with a data link connector **(A)** located underneath the lower left side of the instrument panel behind the driver knee airbag to the left of the brake pedal arm.

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. 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 \(pg. 246\)](#)

SHIPPING MODE (EXTENDED) STORAGE SYSTEM CANCEL

Canceling Extended Storage

1. Ignition switch OFF.

NOTE:

Ensure the ignition switch is OFF when pushing in the extended storage switch. DTCs may be set if the ignition switch is ON when pushing in the extended storage switch.

2. Press in (turn off) the extended storage switch. Refer to [Extended Storage Switch \(pg. 247\)](#)

NOTE:

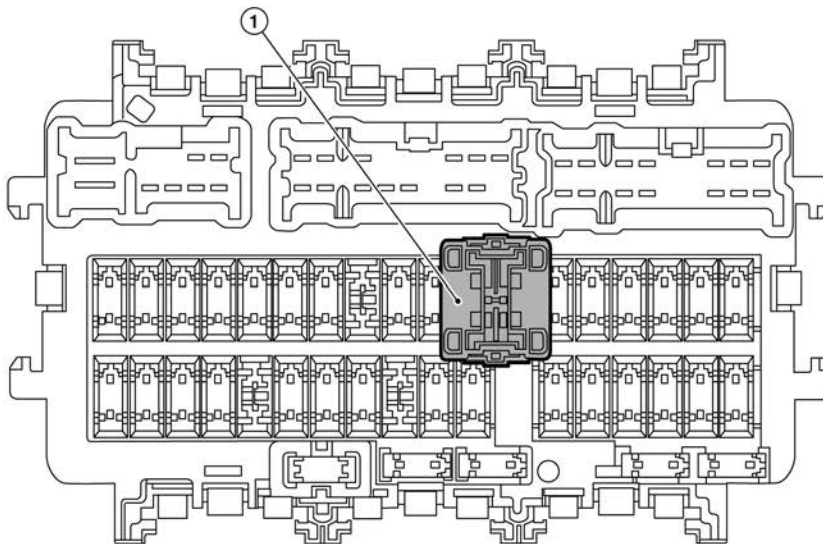
Pressing in the switch moves the mode from shipping to normal.

3. Ignition switch ON and wait at least 10 seconds.
4. Ignition switch OFF and wait at least 2 seconds.
5. Ignition switch ON.
6. Check that extended storage warning message is not displayed in the instrument cluster or display after 20 seconds.

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 [Fuses and Relays – Interior \(pg. 249\)](#)



AAZIA0487ZZ

1. Extended storage switch

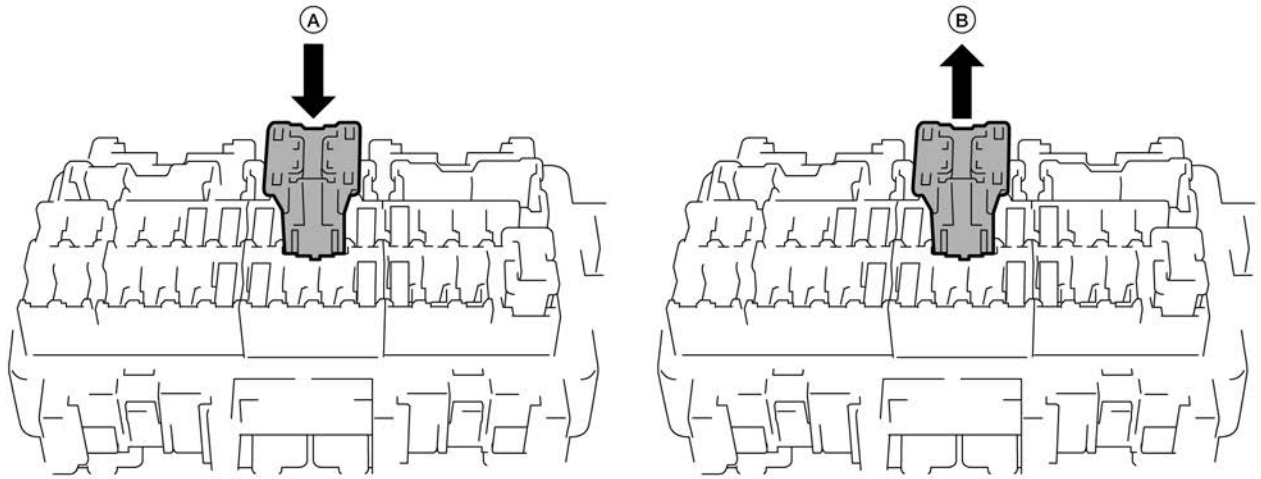
Remove the extended storage switch if it causes interference when checking fuses, refer to [How to remove the Extended Storage Switch \(pg. 248\)](#).

How to turn the Extended Storage Switch ON/OFF



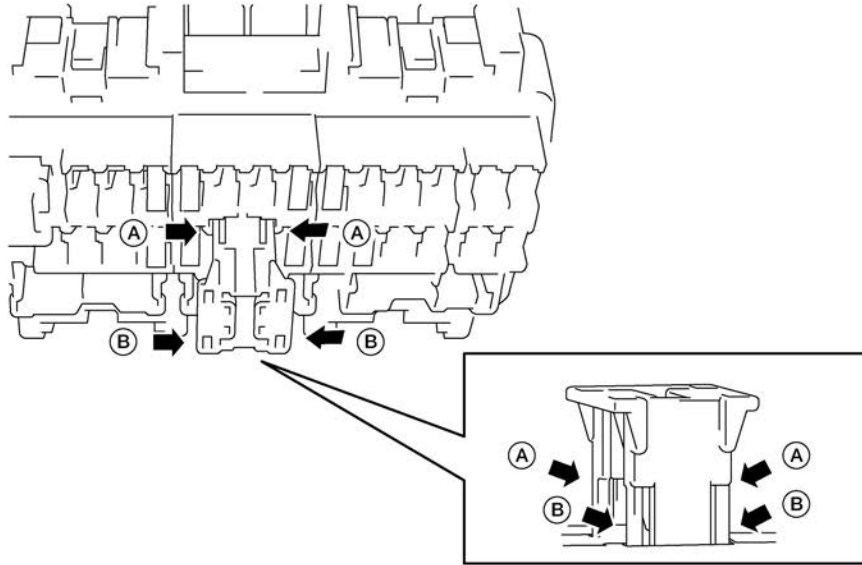
CAUTION:

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



AAZIA048ZZ

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

How to remove the Extended Storage Switch

AAZIA0542ZZ

1. Ignition switch OFF.
2. Turn the extended storage switch ON.
3. Pinch tabs A and tilt to disengage the extended storage switch. Pinch tabs B 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).

FUSE AND RELAY INFORMATION – 2022-2023 (early)

Fuses and Relays — Engine Compartment

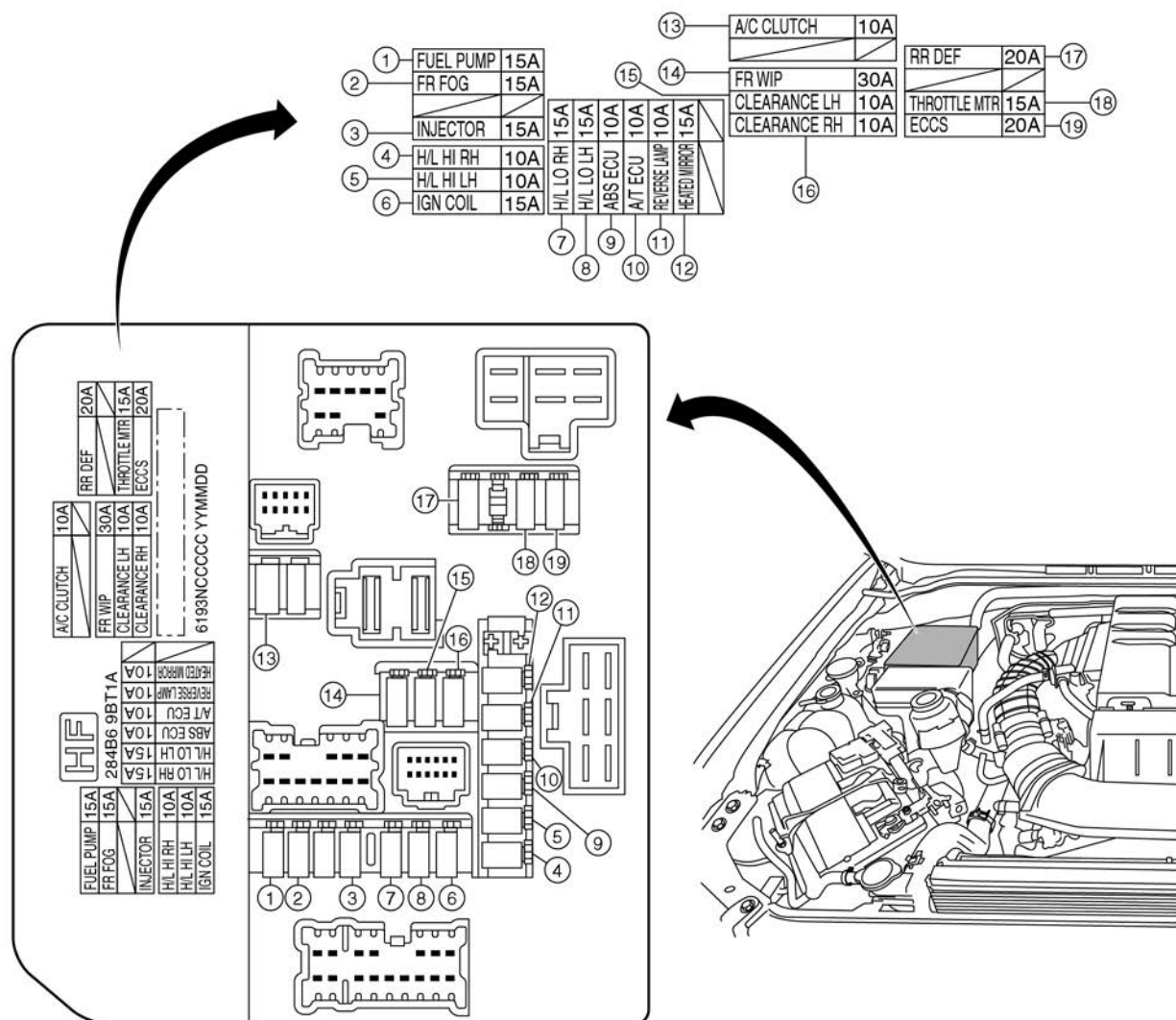
NOTE:

Check battery orientation to identify 2023 model year early or late production, refer to [How to identify Early/Late production \(pg. 81\)](#)



WARNING:

This information is reference only. To avoid damage, modification of the vehicle's electrical systems is not recommended.

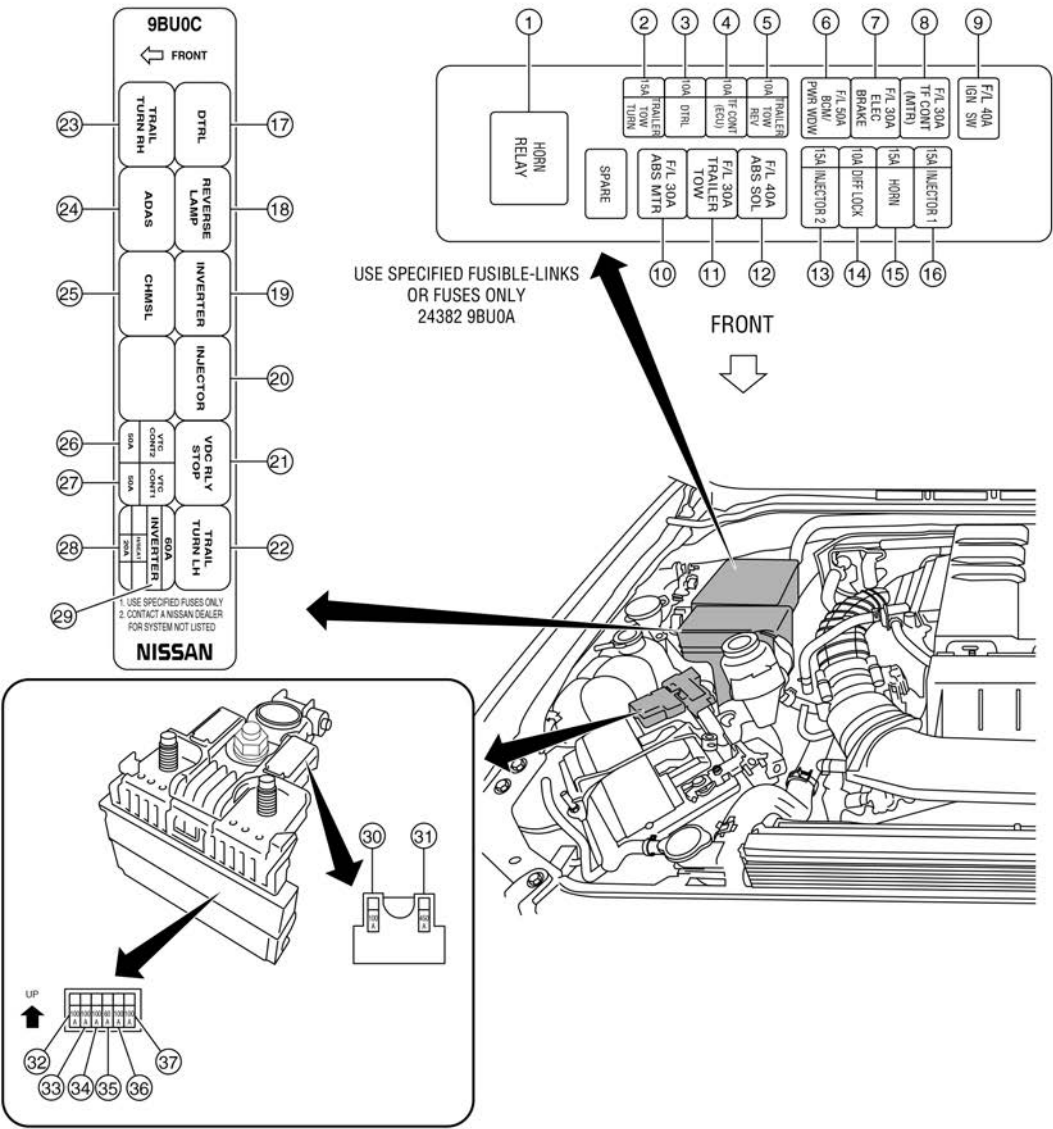


TGAAZIA0275ZZ

Item	Fuse/ Relay Color	Fuse Rating	Power Supply Condition	Fuse/Relay Name
1	Blue	15A	Ignition	Fuel pump
2	Blue	15A	Battery	Front fog lamps
3	Blue	15A	Ignition	Fuel injector
4	Red	10A	Battery	Headlamp high RH
5	Red	10A	Battery	Headlamp high LH
6	Blue	15A	Ignition	Ignition power for ignition coils
7	Red	10A	Battery	Headlamp low RH *1
8	Red	10A	Battery	Headlamp low LH *1
9	Red	10A	Ignition	ABS control unit
10	Red	10A	Ignition	AT control unit
11	Red	10A	Ignition	Reverse lamps
12	Blue	15A	Ignition	Heated mirrors
13	Red	10A	Battery	AC compressor clutch
14	Green	30A	Battery	Front wiper
15	Red	10A	Battery	Clearance lamps LH, Tail *2
16	Red	10A	Battery	Clearance lamps RH, Tail *2
17	Yellow	20A	Battery	Rear defogger
18	Blue	15A	Ignition	Throttle motor
19	Yellow	20A	Ignition	Engine control system

*1: With high beam headlamps ON.

*2: With tail lamps ON.



Lorem ipsum

TGAZIA0369ZZ

Item	Fuse/Relay Color	Fuse Rating	Power Supply Condition	Fuse/Relay Name
1	Black	—	—	Horn relay
2	Blue	15A	Battery	Turn signal control (trailer)
3	Red	10A	Battery	Daytime running lamps
4	Red	10A	Battery	Transfer case control unit
5	Red	10A	Battery	Back-up lamps control (trailer)
6	Red	50A	Battery	Body control module and power windows
7	Red	30A	Battery	Electric brake (trailer tow)
8	Red	30A	Battery	Transfer case control (motor)
9	Green	40A	Battery	Ignition switch
10	Red	30A	Battery	ABS actuator and control unit

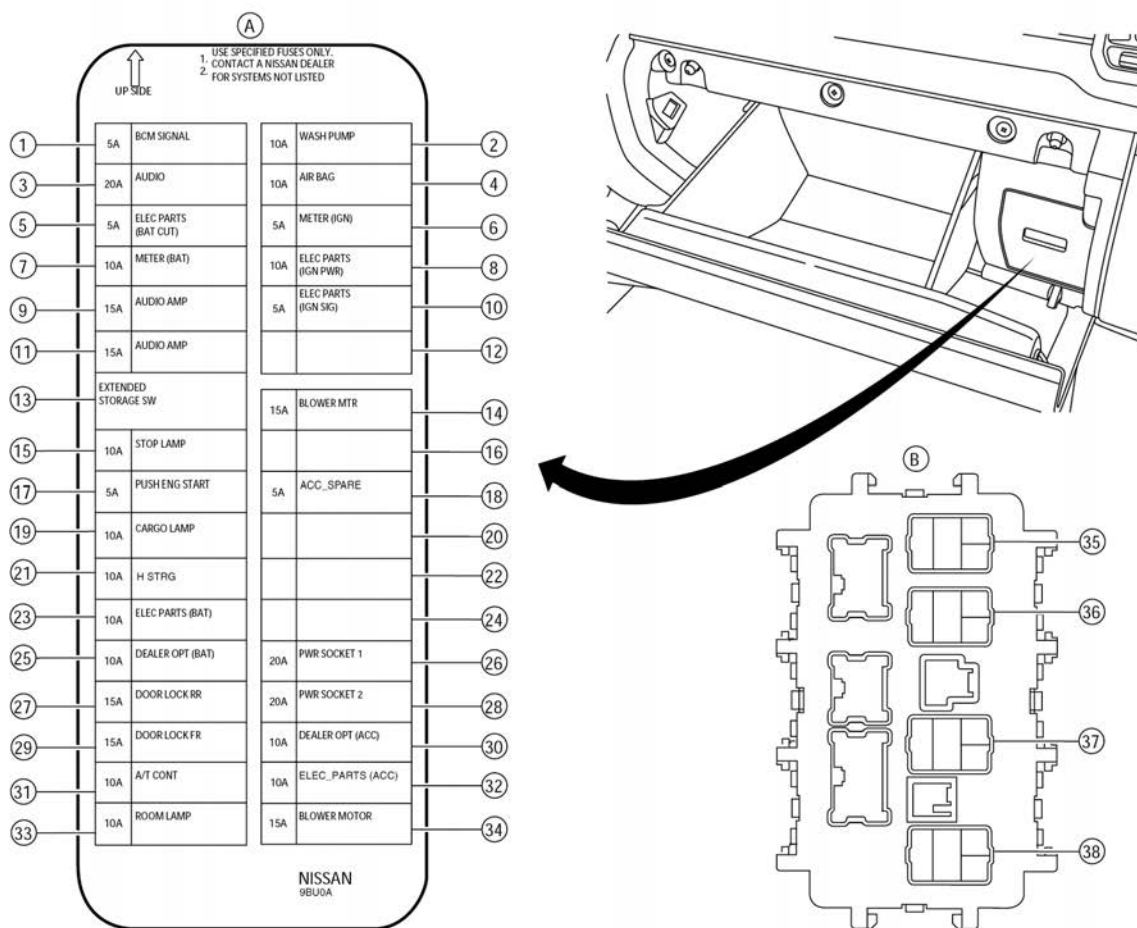
FUSE AND RELAY INFORMATION – 2022-2023 (early)

[ELECTRICAL]

Item	Fuse/ Relay Color	Fuse Rating	Power Supply Condition	Fuse/Relay Name
11	Red	30A	Battery	Power supply (trailer)
12	Red	40A	Battery	ABS actuator and control unit
13	Blue	15A	Battery	Injector relay fuse 2
14	Red	—	Battery	Differential lock control unit
15	Red	—	Battery	Horn
16	Blue	15A	Battery	Injector relay fuse 1
17	Brown	—	Battery	Daytime running lamps relay - models with LED headlamps
	Blue			Daytime running lamps relay - models with halogen headlamps
18	Brown	—	—	Back-up lamps relay
19	Black	—	—	120V inverter system relay
20	Brown	—	—	Injector relay
21	Blue	—	—	Stop lamp relay
22	Blue	—	—	Trailer turn signal LH relay
23	Blue	—	—	Trailer turn signal RH relay
24	Blue	—	—	Brake hold relay (driver assistance system)
25	Blue	—	Battery	Center High Mounted Stop Lamp *1
26	Red	50A	—	Electric intake valve timing control system
27	Red	50A	—	Electric intake valve timing control system
28	Yellow	20A	—	Heated seats
29	Orange	60A	—	120V inverter system
30	—	100A	—	Body chassis systems
31	—	450A	Battery	Alternator
32	—	100A	Battery	Automatic transmission
33	—	100A	Battery	Engine and body systems
34	—	100A	Battery	Electric cooling fan system
35	—	60A	Battery	Body systems (ignition power supply)
36	—	100A	Battery	Engine control system
37	—	100A	Battery	Body, chassis and powertrain systems

***1:** Applicable to late production 2022 model year and early production 2023 model year.

Fuses and Relays — Interior



TGAZIA0277ZZ

A: Fuse block label (located on cover)

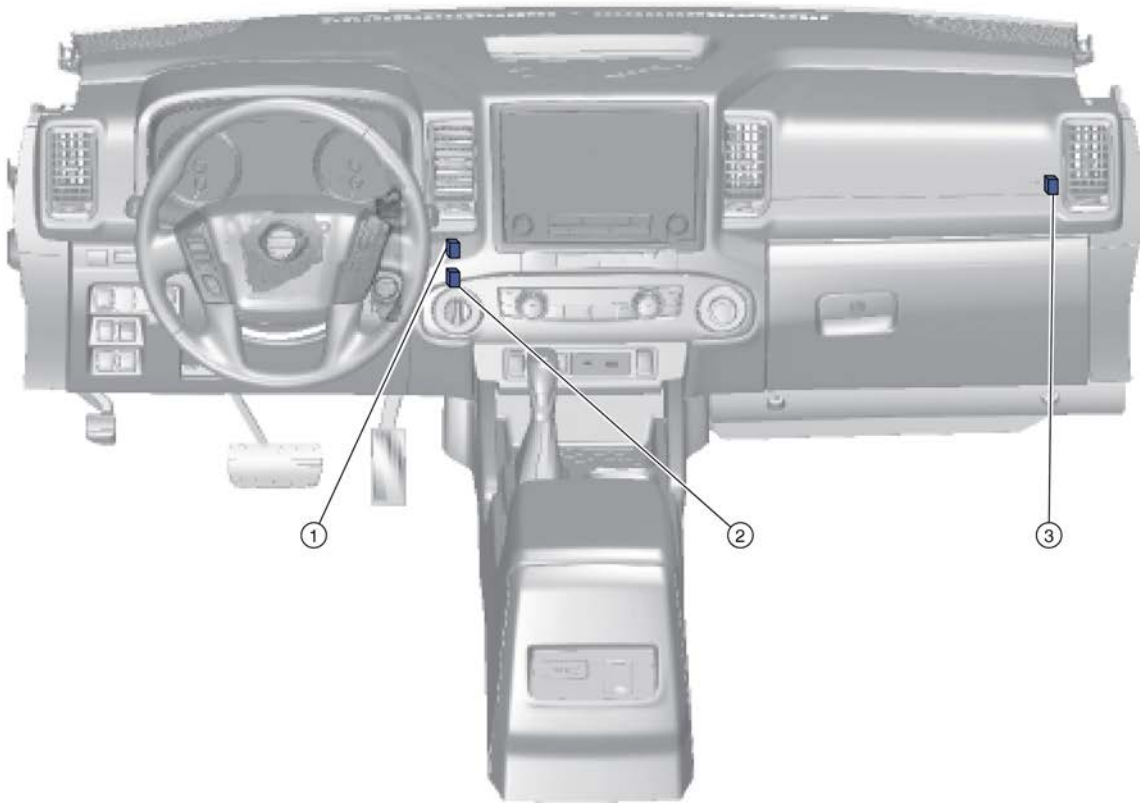
B: Rear view of fuse block

Item	Fuse/Relay Color	Fuse Rating	Power Supply Condition	Fuse/Relay Name
1	Tan	5A	Battery	Body control module signal
2	Red	10A	Ignition	Windshield washer pump
3	Yellow	20A	Battery	Audio
4	Red	10A	Ignition	Air bag
5	Tan	5A	Battery	Electric parts (battery cut)
6	Tan	5A	Ignition	Meter
7	Red	10A	Battery	Meter (battery)
8	Red	10A	Ignition	Electric parts (ignition power)
9	Blue	15A	Battery	Audio amplifier
10	Tan	5A	Ignition	Electric parts (ignition signal)
11	Blue	15A	Battery	Audio amplifier
12	—	—	—	Not used

FUSE AND RELAY INFORMATION – 2022-2023 (early)

[ELECTRICAL]

Item	Fuse/ Relay Color	Fuse Rating	Power Supply Condition	Fuse/Relay Name
13	—	—	—	Extended storage switch
14	Blue	15A	Ignition	Blower motor
15	Red	10A	Battery	Stop lamp
16	—	—	—	Not used
17	Tan	5A	Battery	Push-button ignition
18	Tan	5A	Accessory	Electric parts (accessories)
19	Red	10A	Battery	Cargo lamps
20	—	—	—	Not used
21	Red	10A	Battery	Heated steering wheel
22	—	—	—	Not used
23	Red	10A	Battery	Electric parts (battery)
24	—	—	—	Not used
25	Red	10A	Battery	Dealer option
26	Yellow	20A	Accessory	Power socket 1 (located inside center console) — 2022 Model Year
	—	—	—	Not used — starting 2023 Model Year
27	Blue	15A	Battery	Door lock rear
28	Yellow	20A	Accessory	Front power socket
29	Blue	15A	Battery	Door lock front
30	Red	10A	Accessory	Dealer option (accessory)
31	Red	10A	Battery	A/T control
32	Red	10A	Accessory	Electric parts (accessories)
33	Red	10A	Battery	Room lamp
34	Blue	15A	Ignition	Blower motor
35	Black	—	—	Accessory relay
36	—	—	—	Not used
37	Black	—	—	Blower motor relay
38	Black	—	—	Ignition relay



TGAZIA0390ZZ

Item	Fuse/ Relay Color	Fuse Rating	Power Supply Condition	Fuse/Relay Name
1	Blue	—	Battery	Cargo and bed lamps relay (with red harness tape)
2	Blue	—	Ignition	Heated steering wheel relay (with blue harness tape)
3	Blue	—	Ignition	Heated seat relay

FUSE AND RELAY INFORMATION – 2023 (late) Through 2024 Model Year

Fuses and Relays — Engine Compartment

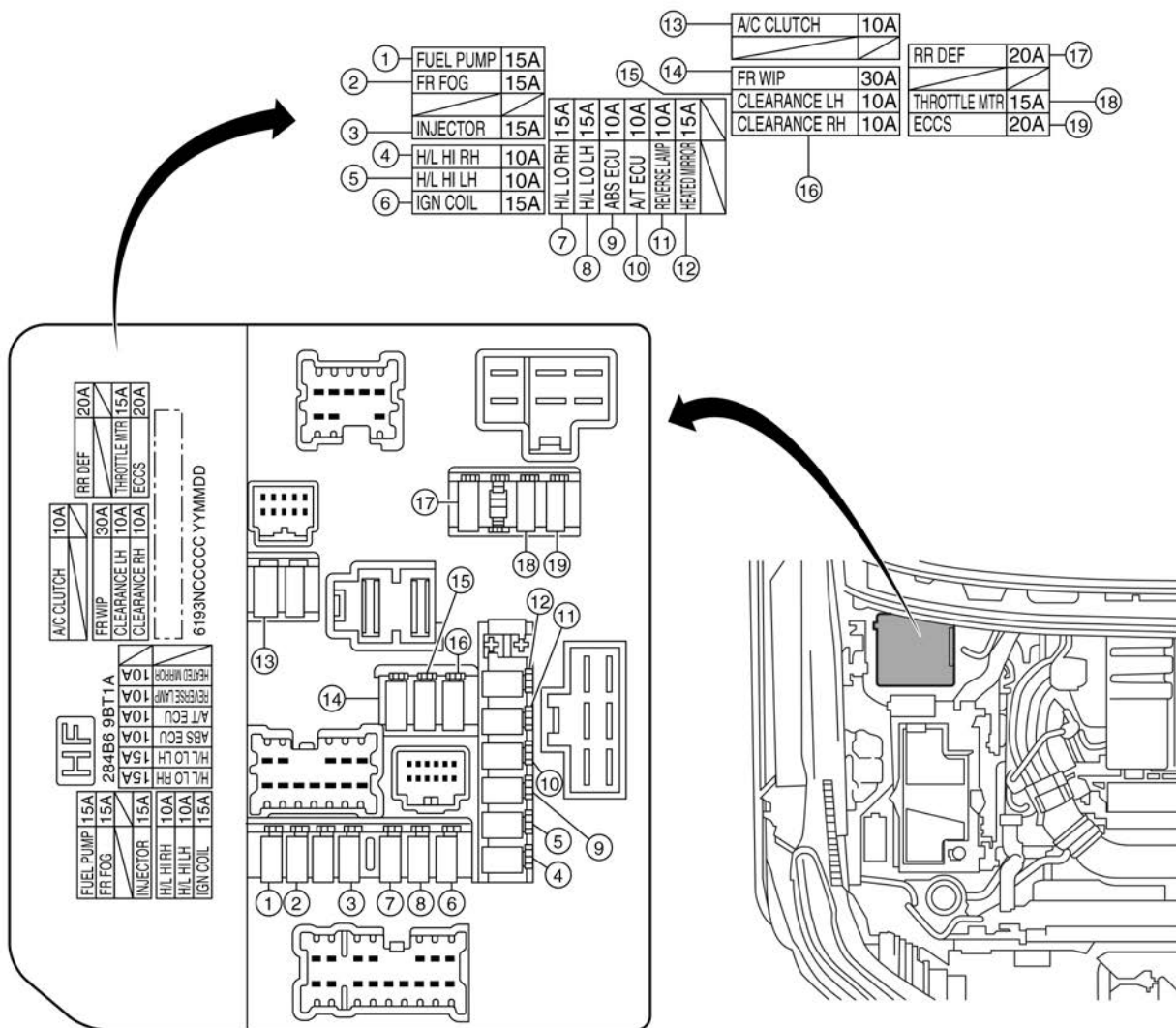
NOTE:

Check battery orientation to identify 2023 model year early or late production, refer to [How to identify Early/Late production \(pg. 81\)](#)



WARNING:

This information is reference only. To avoid damage, modification of the vehicle's electrical systems is not recommended.



TGAZIA0372ZZ

FUSE AND RELAY INFORMATION – 2023 (late) Through 2024 Model Year

[ELECTRICAL]

Item	Fuse/ Relay Color	Fuse Rating	Power Supply Condition	Fuse/Relay Name
1	Blue	15A	Ignition	Fuel pump
2	Blue	15A	Battery	Front fog lamps
3	Blue	15A	Ignition	Fuel injector
4	Red	10A	Battery	Headlamp high RH
5	Red	10A	Battery	Headlamp high LH
6	Blue	15A	Ignition	Ignition power for ignition coils
7	Red	10A	Battery	Headlamp low RH *1
8	Red	10A	Battery	Headlamp low LH *1
9	Red	10A	Ignition	ABS control unit
10	Red	10A	Ignition	AT control unit
11	Red	10A	Ignition	Reverse lamps
12	Blue	15A	Ignition	Heated mirrors
13	Red	10A	Battery	AC compressor clutch
14	Green	30A	Battery	Front wiper
15	Red	10A	Battery	Clearance lamps LH, Tail *2
16	Red	10A	Battery	Clearance lamps RH, Tail *2
17	Yellow	20A	Battery	Rear defogger
18	Blue	15A	Ignition	Throttle motor
19	Yellow	20A	Ignition	Engine control system

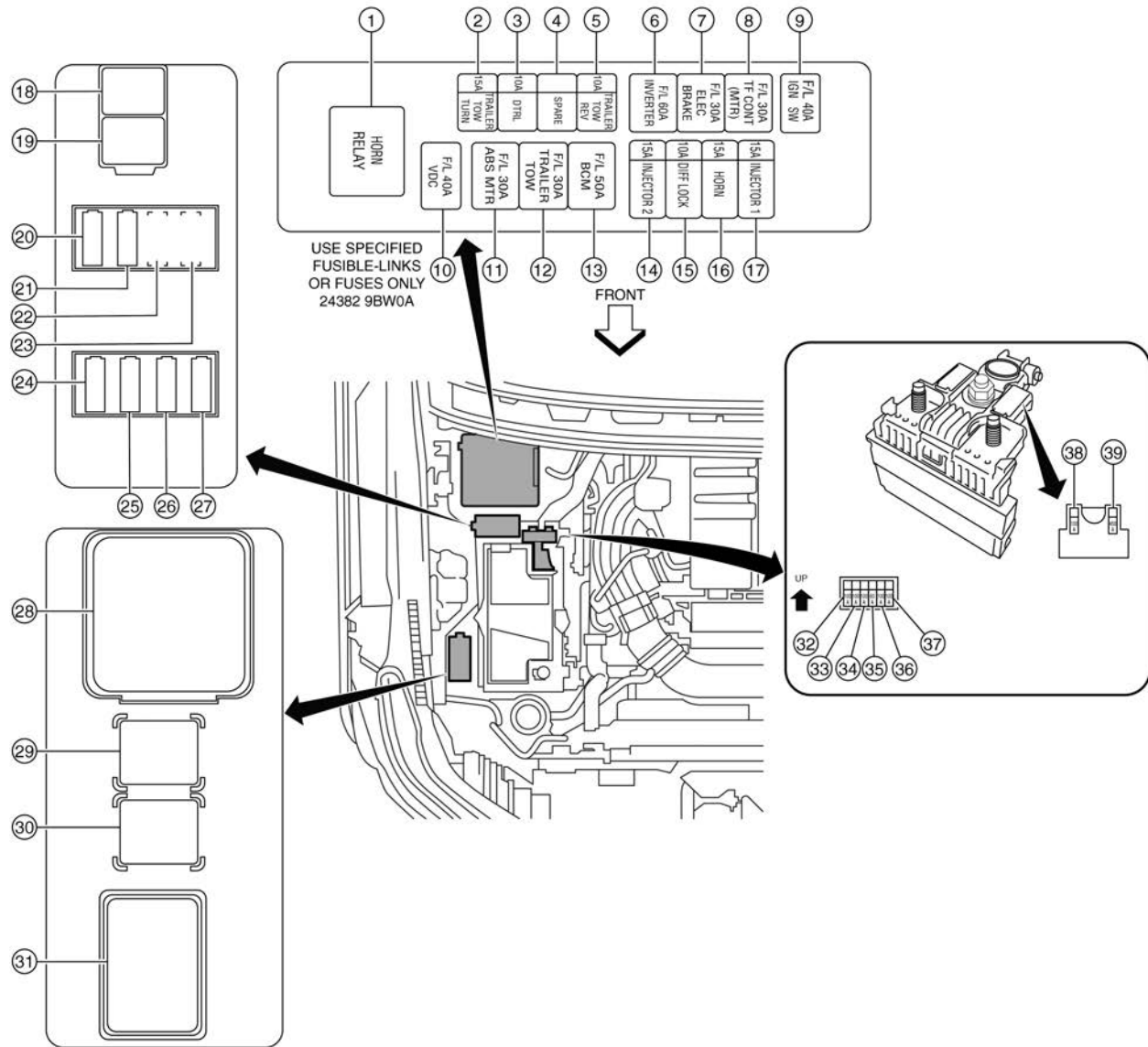
***1:** With high beam headlamps ON.

***2:** With tail lamps ON.

FUSE AND RELAY INFORMATION – 2023 (late) Through 2024 Model Year

[ELECTRICAL]

Engine Compartment Passenger Side



TGAZIA0373ZZ

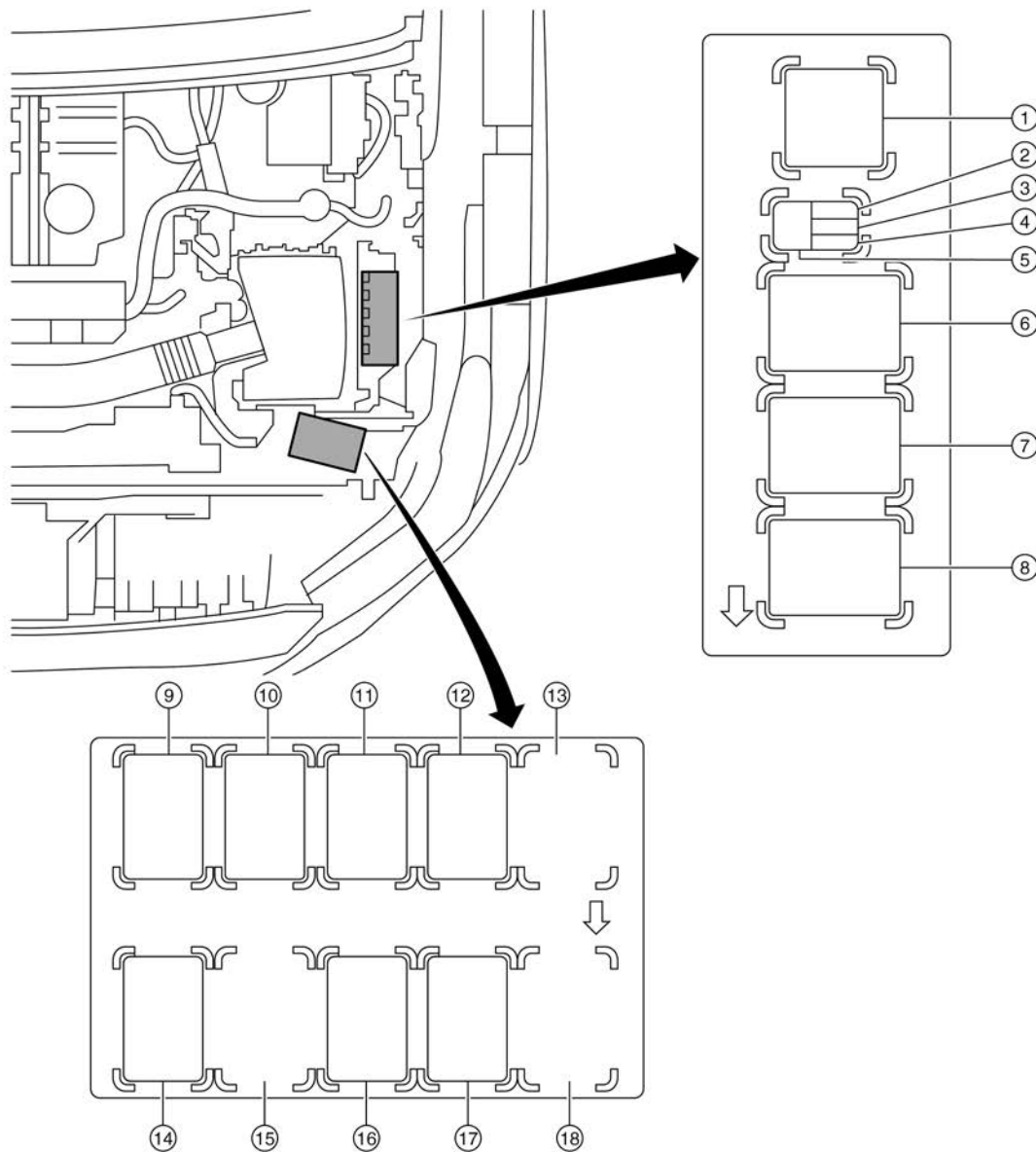
Item	Fuse/Relay Color	Fuse Rating	Power Supply Condition	Fuse/Relay Name
1	Black	—	—	Horn relay
2	Blue	15A	Battery	Turn signal control (trailer)
3	Red	10A	Battery	Daytime running lamps
4	—	—	—	Spare
5	Red	10A	Battery	Back-up lamps control (trailer)
6	Yellow	60A	Battery	Inverter
7	Red	30A	Battery	Electric brake (trailer tow)
8	Red	30A	Battery	Transfer case control (motor)
9	Green	40A	Battery	Ignition switch

FUSE AND RELAY INFORMATION – 2023 (late) Through 2024 Model Year

[ELECTRICAL]

Item	Fuse/ Relay Color	Fuse Rating	Power Supply Condition	Fuse/Relay Name
10	Green	40A	Battery	Vehicle dynamics control (VDC)
11	Red	30A	Battery	ABS actuator and control unit
12	Red	30A	Battery	Power supply (trailer)
13	Red	50A	Battery	Body Control Module (BCM)
14	Blue	15A	Battery	Injector relay fuse 2
15	Red	—	Battery	Differential lock control unit
16	Red	—	Battery	Horn
17	Blue	15A	Battery	Injector relay fuse 1
18	Red	30A	Battery	ISS system
19	Red	30A	Battery	ISS system
20	Red	10A	Battery	ISS system
21	Yellow	5A	Battery	ISS system
22	—	—	—	Not used
23	—	—	—	Not used
24	Red	10A	Ignition	ABS and HVAC systems
25	Red	10A	Ignition	ABS system
26	Yellow	5A	Ignition	High mounted stop lamp
27	Yellow	5A	Ignition	License plate lamps
28	Black	—	—	120V interter system
29	Red	50A	Ignition	Electric intake valve timing control system
30	Red	50A	Ignition	Electric intake valve timing control system
31	Blue	—	—	ISS re-start relay
32	—	100A	Battery	Engine and body systems
33	—	50A	Battery	Body systems (ignition power supply)
34	—	100A	Battery	Body systems
35	—	100A	Battery	Body systems
36	—	100A	Battery	Automatic transmission
37	—	60A	Battery	Electric cooling fan system
38	—	100A	Battery	Body chassis systems
39	—	450A	Battery	Alternator

Engine Compartment Driver Side



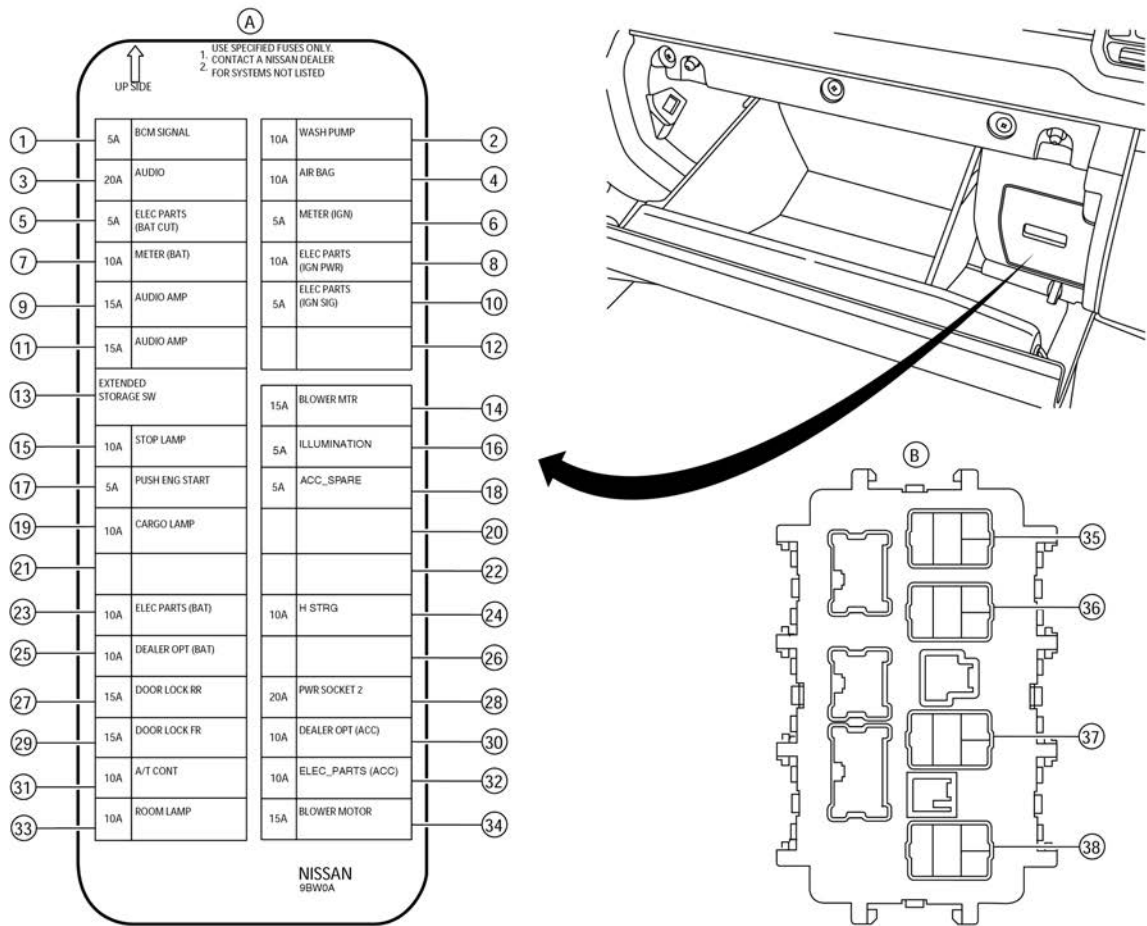
TGAAZIA0374ZZ

Item	Fuse/Relay Color	Fuse Rating	Power Supply Condition	Fuse/Relay Name
1	Blue	—	—	ISS stop lamp relay
2	Red	10A	Battery	Engine restart bypass relay
3	Yellow	20A	Battery	Heated seats
4	—	—	—	Not used
5	—	—	—	Not used
6	Brown	—	Battery	Daytime running lamps relay - models with LED headlamps
	Blue			Daytime running lamps relay - models with halogen headlamps

FUSE AND RELAY INFORMATION – 2023 (late) Through 2024 Model Year**[ELECTRICAL]**

Item	Fuse/ Relay Color	Fuse Rating	Power Supply Condition	Fuse/Relay Name
7	Brown	—	—	Injector relay
8	Brown	—	—	Back-up lamps relay
9	Black	—	—	ADAS relay (stop lamp)
10	Black	—	—	Engine restart bypass control relay
11	Black	—	—	Trailer tow relay (LH turn)
12	Black	—	—	Trailer tow relay (RH turn)
13	—	—	—	Not used
14	Black	—	—	ISS tail lamp relay (license lamp)
15	—	—	—	Not used
16	Black	—	—	ISS ignition relay
17	Black	—	—	VDC relay (stop lamp)
18	—	—	—	Not used

Fuses and Relays — Interior



TGAZIA0375ZZ

A: Fuse block label (located on cover)

B: Rear view of fuse block

Item	Fuse/ Relay Color	Fuse Rating	Power Supply Condition	Fuse/Relay Name
1	Tan	5A	Battery	Body control module signal
2	Red	10A	Ignition	Windshield washer pump
3	Yellow	20A	Battery	Audio
4	Red	10A	Ignition	Air bag
5	Tan	5A	Battery	Electric parts (battery cut)
6	Tan	5A	Ignition	Meter
7	Red	10A	Battery	Meter (battery)
8	Red	10A	Ignition	Electric parts (ignition power)
9	Blue	15A	Battery	Audio amplifier
10	Tan	5A	Ignition	Electric parts (ignition signal)
11	Blue	15A	Battery	Audio amplifier
12	—	—	—	Not used

FUSE AND RELAY INFORMATION – 2023 (late) Through 2024 Model Year

[ELECTRICAL]

Item	Fuse/ Relay Color	Fuse Rating	Power Supply Condition	Fuse/Relay Name
13	—	—	—	Extended storage switch
14	Blue	15A	Ignition	Blower motor
15	Red	10A	Battery	Stop lamp
16	Tan	5A	Battery	Illumination
17	Tan	5A	Battery	Push-button ignition
18	Tan	5A	Accessory	Electric parts (accessories)
19	Red	10A	Battery	Cargo lamps
20	—	—	—	Not used
21	—	—	—	Not used
22	—	—	—	Not used
23	Red	10A	Battery	Electric parts (battery)
24	Red	10A	Ignition	Heated steering wheel
25	Red	10A	Battery	Dealer option
26	—	—	—	Not used
27	Blue	15A	Battery	Door lock rear
28	Yellow	20A	Accessory	Front power socket
29	Blue	15A	Battery	Door lock front
30	Red	10A	Accessory	Dealer option (accessory)
31	Red	10A	Battery	A/T control
32	Red	10A	Accessory	Electric parts (accessories)
33	Red	10A	Battery	Room lamp
34	Blue	15A	Ignition	Blower motor
35	Black	—	—	Accessory relay
36	Blue	—	Ignition	Heated steering wheel relay
37	Black	—	—	Blower motor relay
38	Black	—	—	Ignition relay



TGAZIA0376ZZ

Item	Fuse/ Relay Color	Fuse Rating	Power Supply Condition	Fuse/Relay Name
1	Blue	—	Battery	Power seat and moonroof
2	Blue	—	Battery	Cargo and bed lamps relay
3	Blue	—	Ignition	Heated seat relay

FUSE AND RELAY INFORMATION – Starting with 2025 Model Year

Fuses and Relays — Engine Compartment

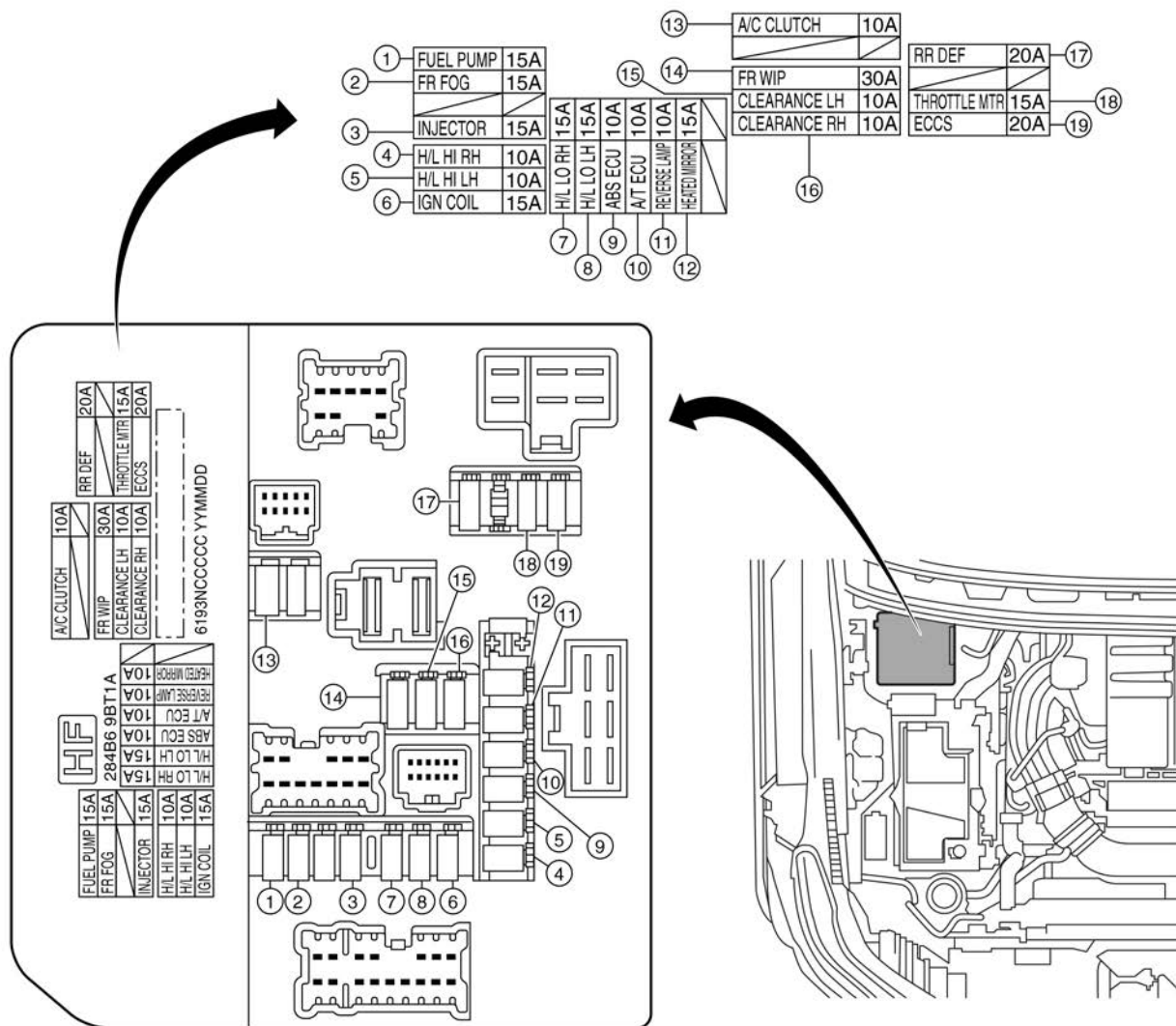
NOTE:

Check battery orientation to identify 2023 model year early or late production, refer to [How to identify Early/Late production \(pg. 81\)](#)



WARNING:

This information is reference only. To avoid damage, modification of the vehicle's electrical systems is not recommended.



TGAZIA0372ZZ

FUSE AND RELAY INFORMATION – Starting with 2025 Model Year

[ELECTRICAL]

Item	Fuse/ Relay Color	Fuse Rating	Power Supply Condition	Fuse/Relay Name
1	Blue	15A	Ignition	Fuel pump
2	Blue	15A	Battery	Front fog lamps
3	Blue	15A	Ignition	Fuel injector
4	Red	10A	Battery	Headlamp high RH
5	Red	10A	Battery	Headlamp high LH
6	Blue	15A	Ignition	Ignition power for ignition coils
7	Red	10A	Battery	Headlamp low RH *1
8	Red	10A	Battery	Headlamp low LH *1
9	Red	10A	Ignition	ABS control unit
10	Red	10A	Ignition	AT control unit
11	Red	10A	Ignition	Reverse lamps
12	Blue	15A	Ignition	Heated mirrors
13	Red	10A	Battery	AC compressor clutch
14	Green	30A	Battery	Front wiper
15	Red	10A	Battery	Clearance lamps LH, Tail *2
16	Red	10A	Battery	Clearance lamps RH, Tail *2
17	Yellow	20A	Battery	Rear defogger
18	Blue	15A	Ignition	Throttle motor
19	Yellow	20A	Ignition	Engine control system

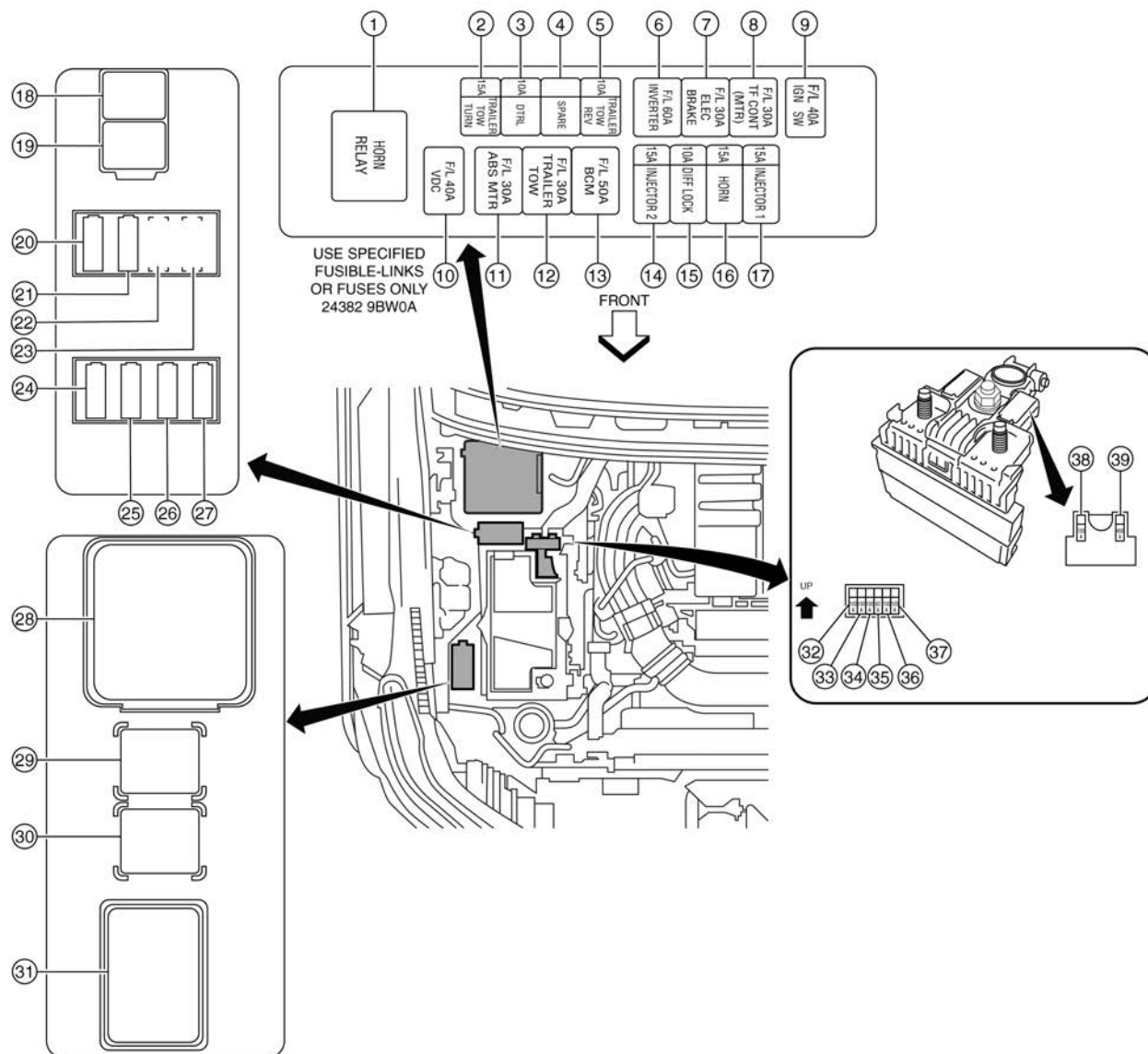
***1:** With high beam headlamps ON.

***2:** With tail lamps ON.

FUSE AND RELAY INFORMATION – Starting with 2025 Model Year

[ELECTRICAL]

Engine Compartment Passenger Side



TGAAZIA0373ZZ

Item	Fuse/Relay Color	Fuse Rating	Power Supply Condition	Fuse/Relay Name
1	Black	—	—	Horn relay
2	Blue	15A	Battery	Turn signal control (trailer)
3	Red	10A	Battery	Daytime running lamps
4	—	—	—	Spare
5	Red	10A	Battery	Back-up lamps control (trailer)
6	Yellow	60A	Battery	Inverter
7	Red	30A	Battery	Electric brake (trailer tow)
8	Red	30A	Battery	Transfer case control (motor)
9	Green	40A	Battery	Ignition switch

FUSE AND RELAY INFORMATION – Starting with 2025 Model Year

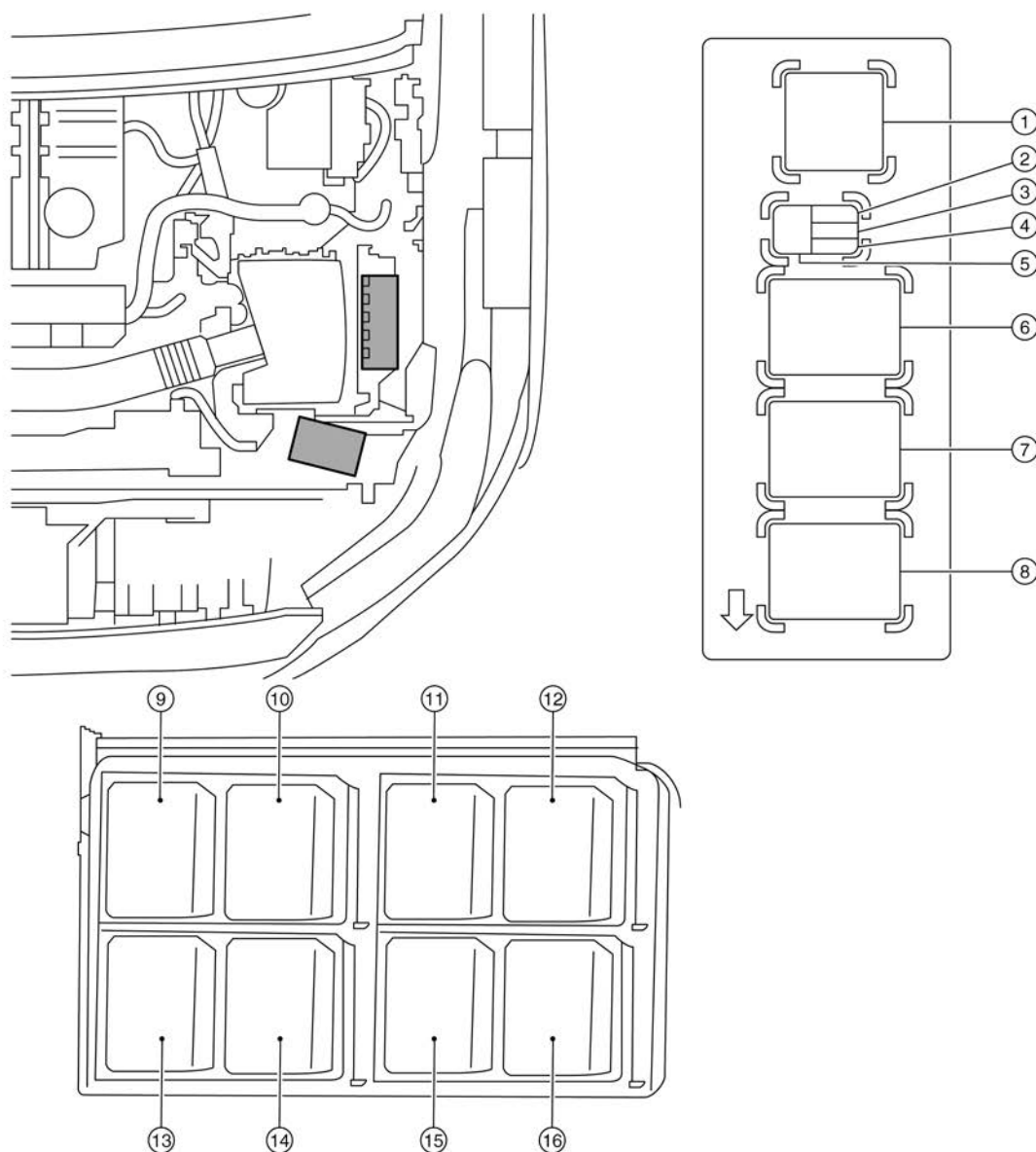
[ELECTRICAL]

Item	Fuse/ Relay Color	Fuse Rating	Power Supply Condition	Fuse/Relay Name
10	Green	40A	Battery	Vehicle dynamics control (VDC)
11	Red	30A	Battery	ABS actuator and control unit
12	Red	30A	Battery	Power supply (trailer)
13	Red	50A	Battery	Body Control Module (BCM)
14	Blue	15A	Battery	Injector relay fuse 2
15	Red	—	Battery	Differential lock control unit
16	Red	—	Battery	Horn
17	Blue	15A	Battery	Injector relay fuse 1
18	Red	30A	Battery	ISS system
19	Red	30A	Battery	ISS system
20	Red	10A	Battery	ISS system
21	Yellow	5A	Battery	ISS system
22	—	—	—	Not used
23	—	—	—	Not used
24	Red	10A	Ignition	ABS and HVAC systems
25	Red	10A	Ignition	ABS system
26	Yellow	5A	Ignition	High mounted stop lamp
27	Yellow	5A	Ignition	License plate lamps
28	Black	—	—	120V interter system
29	Red	50A	Ignition	Electric intake valve timing control system
30	Red	50A	Ignition	Electric intake valve timing control system
31	Blue	—	—	ISS re-start relay
32	—	100A	Battery	Engine and body systems
33	—	50A	Battery	Body systems (ignition power supply)
34	—	100A	Battery	Body systems
35	—	100A	Battery	Body systems
36	—	100A	Battery	Automatic transmission
37	—	60A	Battery	Electric cooling fan system
38	—	100A	Battery	Body chassis systems
39	—	450A	Battery	Alternator

FUSE AND RELAY INFORMATION – Starting with 2025 Model Year

[ELECTRICAL]

Engine Compartment Driver Side



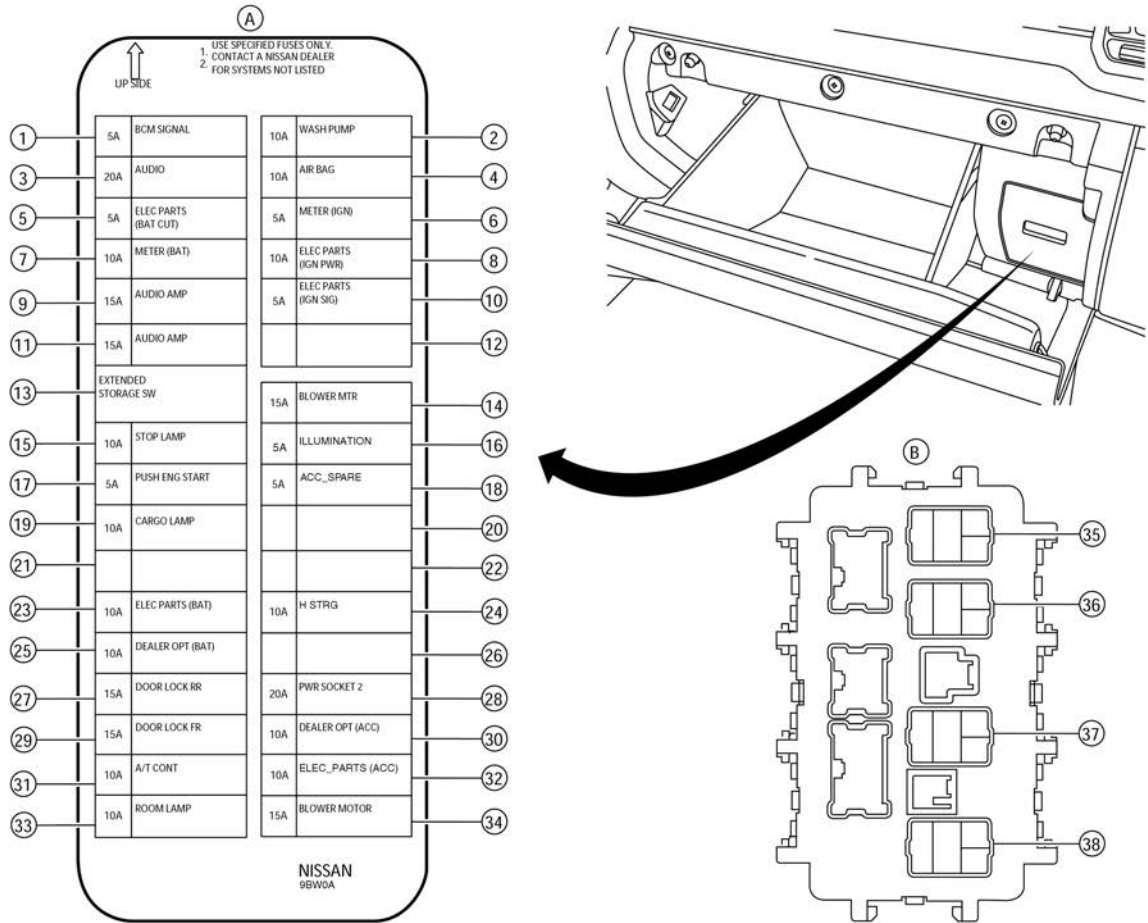
TGAZIA0416ZZ

Item	Fuse/Relay Color	Fuse Rating	Power Supply Condition	Fuse/Relay Name
1	Blue	—	—	Center high mount stop lamp relay
2	Red	10A	Battery	Engine restart bypass relay
3	Yellow	20A	Battery	Heated seats
4	—	—	—	Not used
5	—	—	—	Not used
6	Brown	—	Battery	Daytime running lamps relay - models with LED headlamps
	Blue			Daytime running lamps relay - models with halogen headlamps

FUSE AND RELAY INFORMATION – Starting with 2025 Model Year**[ELECTRICAL]**

Item	Fuse/ Relay Color	Fuse Rating	Power Supply Condition	Fuse/Relay Name
7	Brown	—	—	Injector relay
8	Brown	—	—	Back-up lamps relay
9	Black	—	—	Brake hold relay
10	Black	—	—	Engine restart bypass control relay
11	Black	—	—	Trailer turn relay (LH turn)
12	Black	—	—	Trailer turn relay (RH turn)
13	Black	—	—	Tail lamp relay-1
14	—	—	—	Not used
15	Black	—	—	Stop lamp relay
16	Black	—	—	Ignition relay-2

Fuses and Relays — Interior



TGAZIA0375ZZ

A: Fuse block label (located on cover)

B: Rear view of fuse block

Item	Fuse/ Relay Color	Fuse Rating	Power Supply Condition	Fuse/Relay Name
1	Tan	5A	Battery	Body control module signal
2	Red	10A	Ignition	Windshield washer pump
3	Yellow	20A	Battery	Audio
4	Red	10A	Ignition	Air bag
5	Tan	5A	Battery	Electric parts (battery cut)
6	Tan	5A	Ignition	Meter
7	Red	10A	Battery	Meter (battery)
8	Red	10A	Ignition	Electric parts (ignition power)
9	Blue	15A	Battery	Audio amplifier
10	Tan	5A	Ignition	Electric parts (ignition signal)
11	Blue	15A	Battery	Audio amplifier
12	—	—	—	Not used

FUSE AND RELAY INFORMATION – Starting with 2025 Model Year

[ELECTRICAL]

Item	Fuse/ Relay Color	Fuse Rating	Power Supply Condition	Fuse/Relay Name
13	—	—	—	Extended storage switch
14	Blue	15A	Ignition	Blower motor
15	Red	10A	Battery	Stop lamp
16	Tan	5A	Battery	Illumination
17	Tan	5A	Battery	Push-button ignition
18	Tan	5A	Accessory	Electric parts (accessories)
19	Red	10A	Battery	Cargo lamps
20	—	—	—	Not used
21	—	—	—	Not used
22	—	—	—	Not used
23	Red	10A	Battery	Electric parts (battery)
24	Red	10A	Ignition	Heated steering wheel
25	Red	10A	Battery	Dealer option
26	—	—	—	Not used
27	Blue	15A	Battery	Door lock rear
28	Yellow	20A	Accessory	Front power socket
29	Blue	15A	Battery	Door lock front
30	Red	10A	Accessory	Dealer option (accessory)
31	Red	10A	Battery	A/T control
32	Red	10A	Accessory	Electric parts (accessories)
33	Red	10A	Battery	Room lamp
34	Blue	15A	Ignition	Blower motor
35	Black	—	—	Accessory relay
36	Blue	—	Ignition	Heated steering wheel relay
37	Black	—	—	Blower motor relay
38	Black	—	—	Ignition relay



TGAZIA0376ZZ

Item	Fuse/ Relay Color	Fuse Rating	Power Supply Condition	Fuse/Relay Name
1	Blue	—	Battery	Power seat and moonroof
2	Blue	—	Battery	Cargo and bed lamps relay
3	Blue	—	Ignition	Heated seat relay

GROUND

Ground

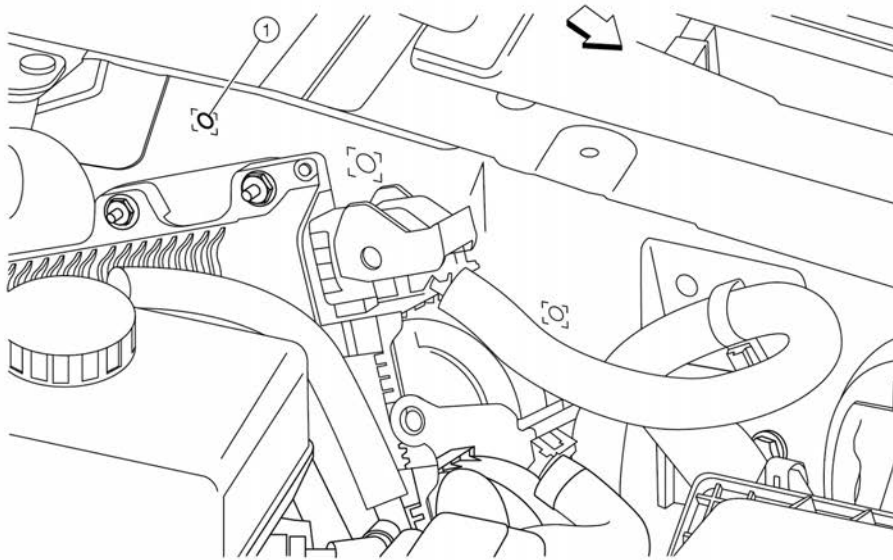


CAUTION:

- 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 \(pg. 275\)](#) in this section.

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 (located under hood near engine control module)



TGAZIA0235ZZ

↖: Front of vehicle

1. Weld nut not currently used

Remove all paint from nut and use dielectric grease to fasten additional 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.**

**CAUTION:**

- **To avoid the risk of minor injury or property damage:**
 - **If the 12-volt battery has low or no voltage, the transmission cannot be shifted. Replace the battery or repair the damaged power supply system. If towing the vehicle, follow the tow procedure in the service manual.**

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 800 RPM (maximum for Park, Neutral and Drive when the engine is at normal operating temperature). Excessive increase in current load may cause the battery to remain in a discharging state even with increased engine idle RPM. 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 \(pg. 446\)](#) in the Specifications section.

For ground connection information, refer to [GROUNDS \(pg. 274\)](#) in this section.

BATTERY VOLTAGE CONNECTION

NOTE:

Check battery orientation to identify 2023 model year early or late production, refer to [How to identify Early/Late production \(pg. 81\)](#)

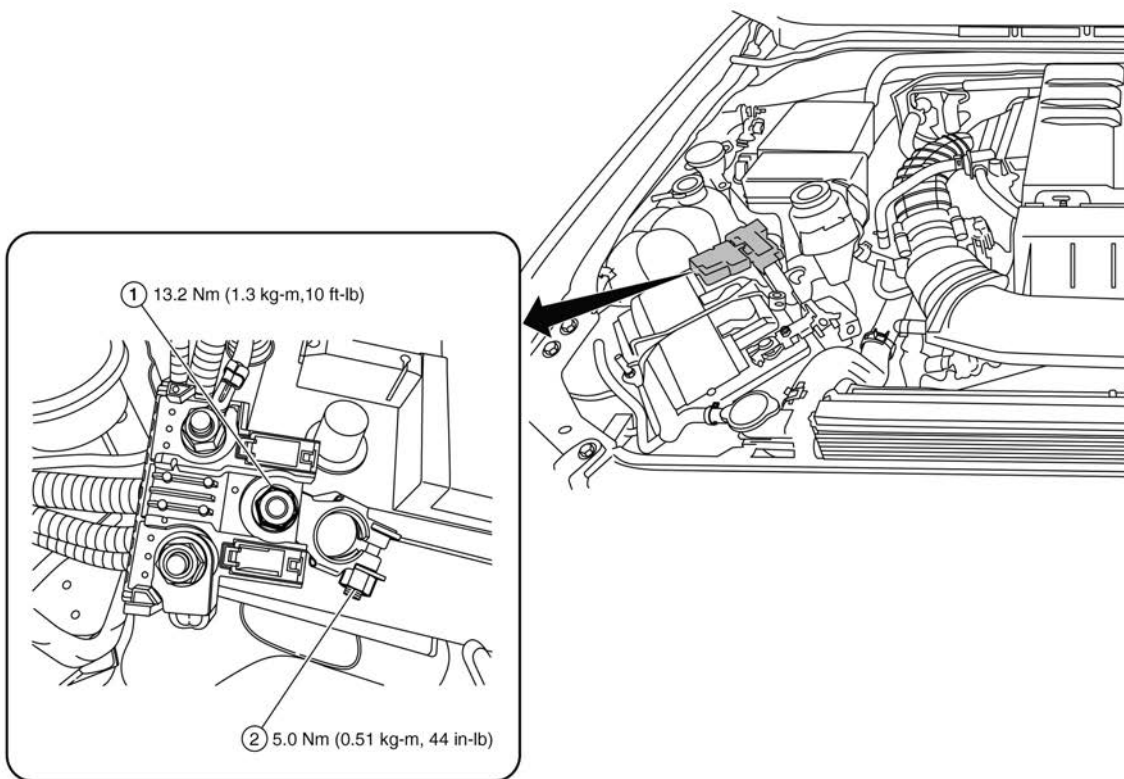
**CAUTION:**

To prevent vehicle damage or disabling the vehicle from driving be sure to use appropriate circuit protection device (fuse, fusible link, circuit breaker, etc.) in the event of circuit overload.

NOTE:

Ignition switch OFF. Wait at least 2 minutes before removing the 12V battery terminal to avoid setting any DTCs.

2022–2023 Early Production

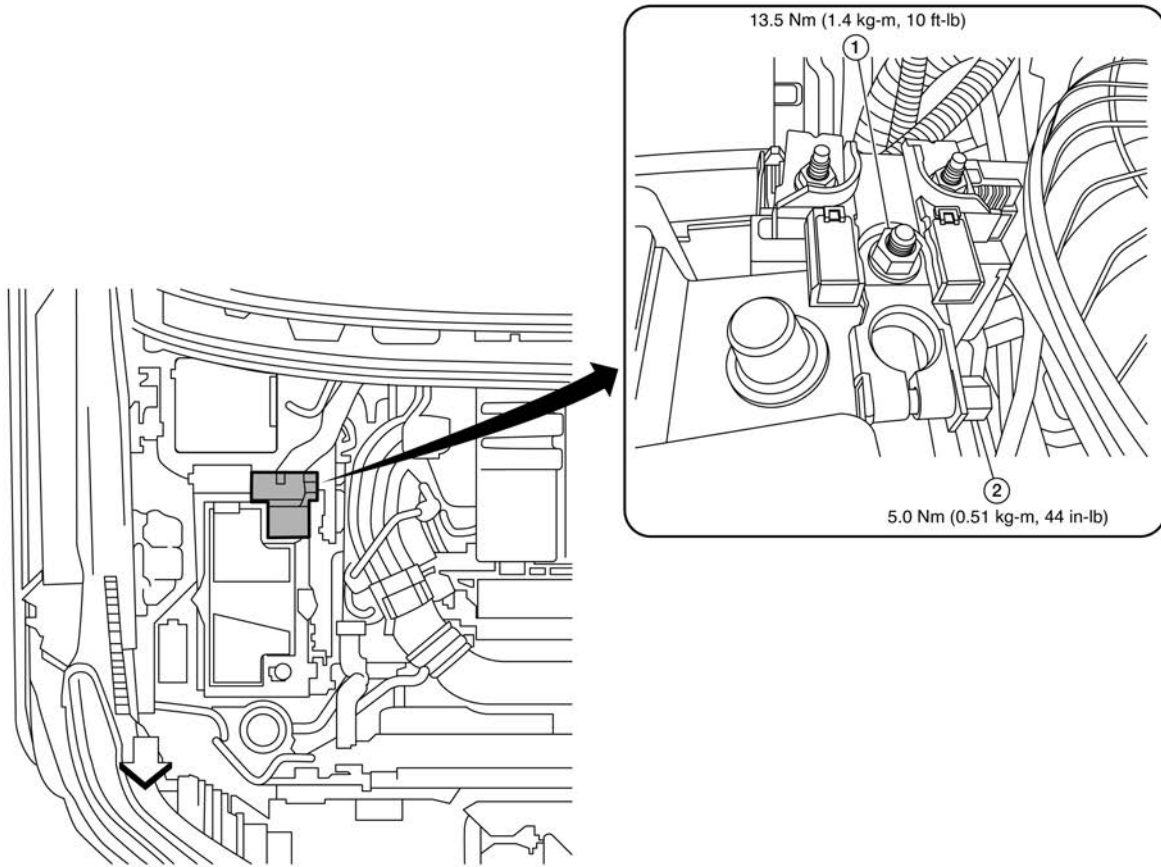


TGAZIA0382ZZ

1. Battery terminal nut

2. Battery terminal clamp nut

Starting with 2023 Late Production



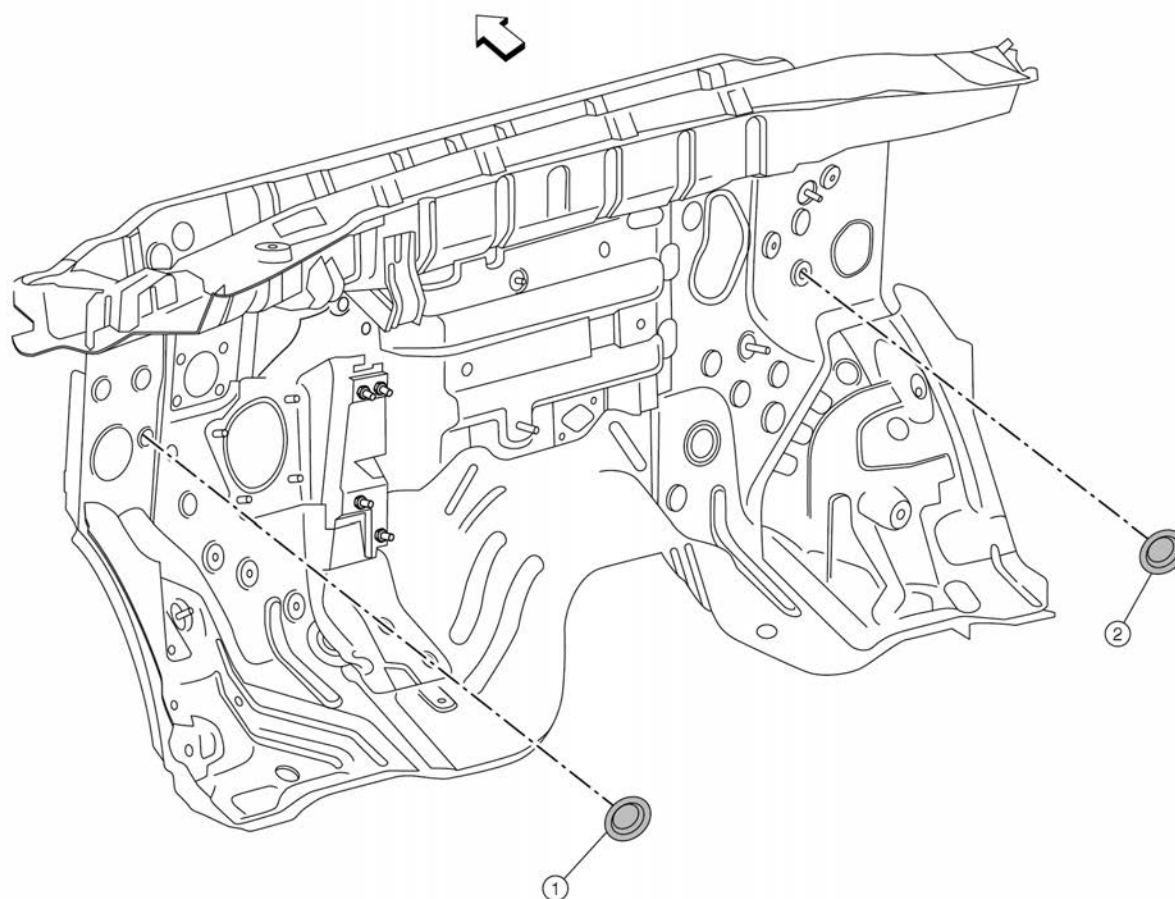
TGAZIA0377ZZ

1. Battery terminal nut

2. Battery terminal clamp nut

UPFITTER WIRING PASS-THROUGH

BULKHEAD

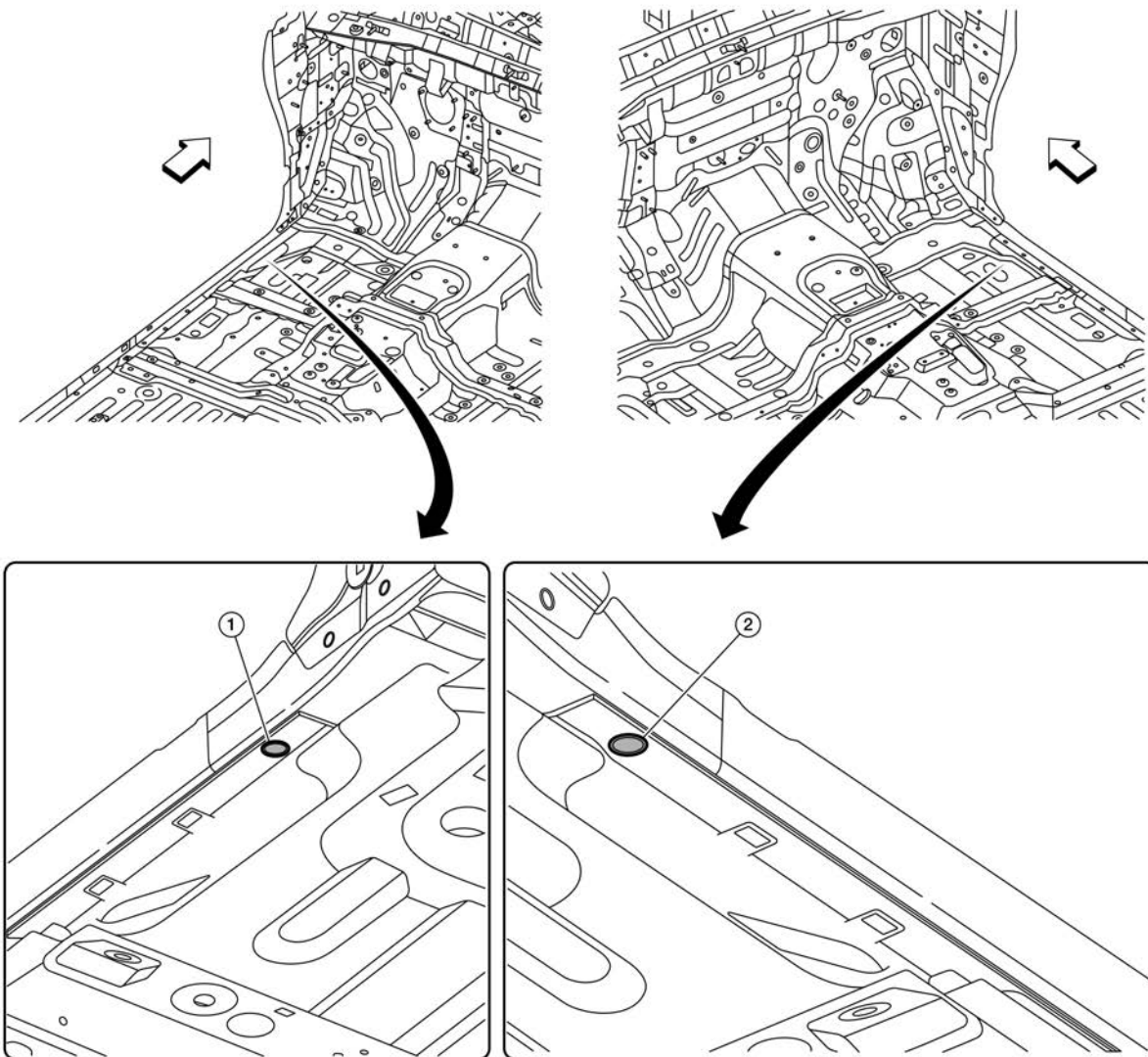


TGAAZIA0187ZZ

↖: Front of vehicle.

1: Driver pass-through
grommet2: Passenger pass-through
grommet

FLOOR



TGAAZIA0185ZZ

↖: Front of vehicle.

1: Driver pass-through grommet

2: Passenger pass-through grommet

Two additional wiring grommets are provided in the bulkhead between the engine and passenger compartments. Two additional wiring grommets are provided on each front floor side sill under the front kicking plate. These pass-throughs are provided to allow easy connection of auxiliary equipment.

To pass a wire or harness through one of these grommets, cut a hole in the grommet just large enough to pass the wire or harness through it. To avoid water intrusion into the passenger compartment, always run the wire or harness down first and then back up to the grommet (forming a "U"-shape drip loop) before passing it through the grommet and into the passenger compartment. In addition, apply RTV silicone to reseal the grommet rubber around the wire or harness. This will ensure that any water accumulating on the wire or harness will not seep into the vehicle's cabin.

**CAUTION:**

To prevent damage to surrounding parts, carefully cut bulkhead sound deadening pad.

To prevent water intrusion and possible vehicle damage:

- **Use RTV silicone to properly seal grommets if they are cut.**
- **Ensure a drip loop is used when passing accessory harness or wiring through a grommet.**

NOTE:

The bulkhead grommets are located behind the sound deadener pad. The floor grommets are located under the front kicking plate on each front floor side sill.

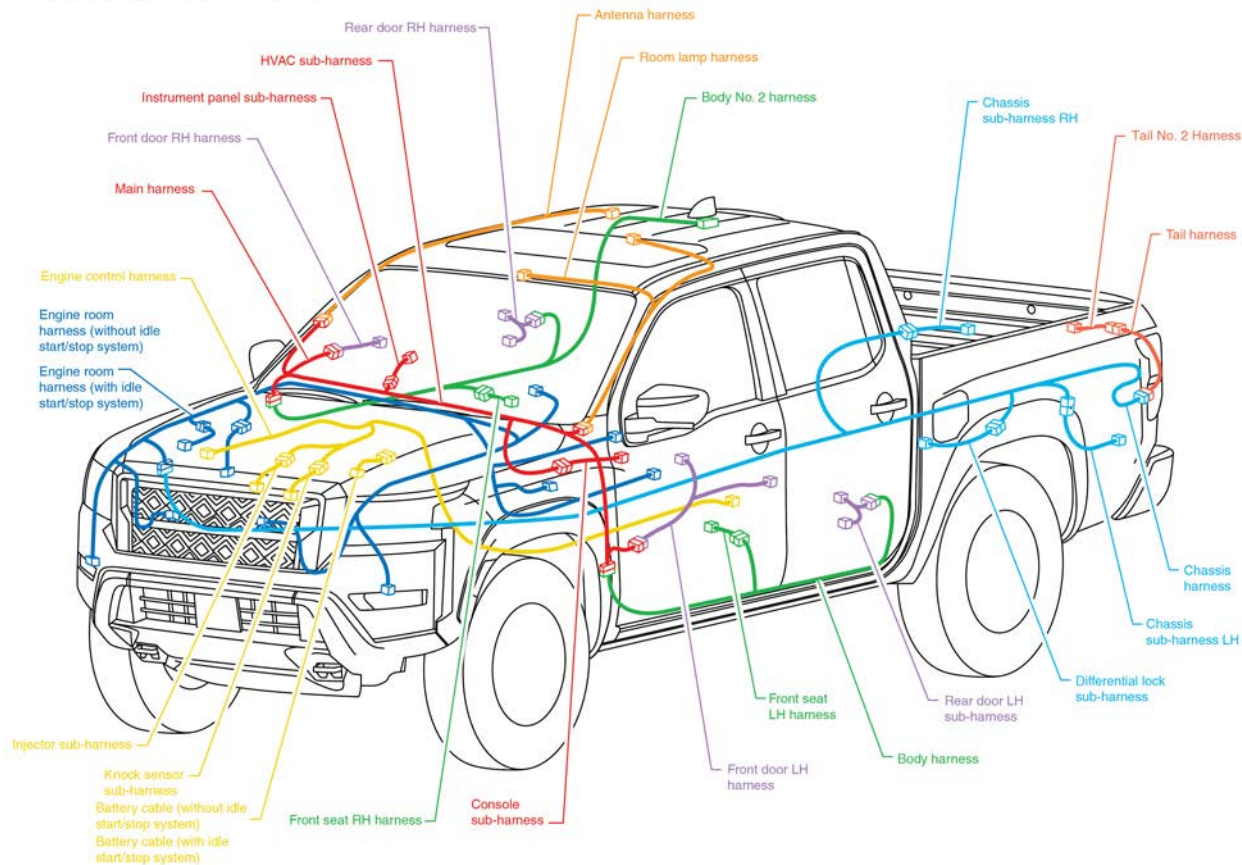
HARNESS LAYOUT

Harness Outline — Crew Cab

NOTE:

The harness outline shows all harnesses on the vehicle. The following pages show the harnesses that are fully or partially obstructed from view by sheet metal, trim, etc. Use care when working around harnesses to avoid vehicle damage.

OUTLINE (CREW CAB MODELS)



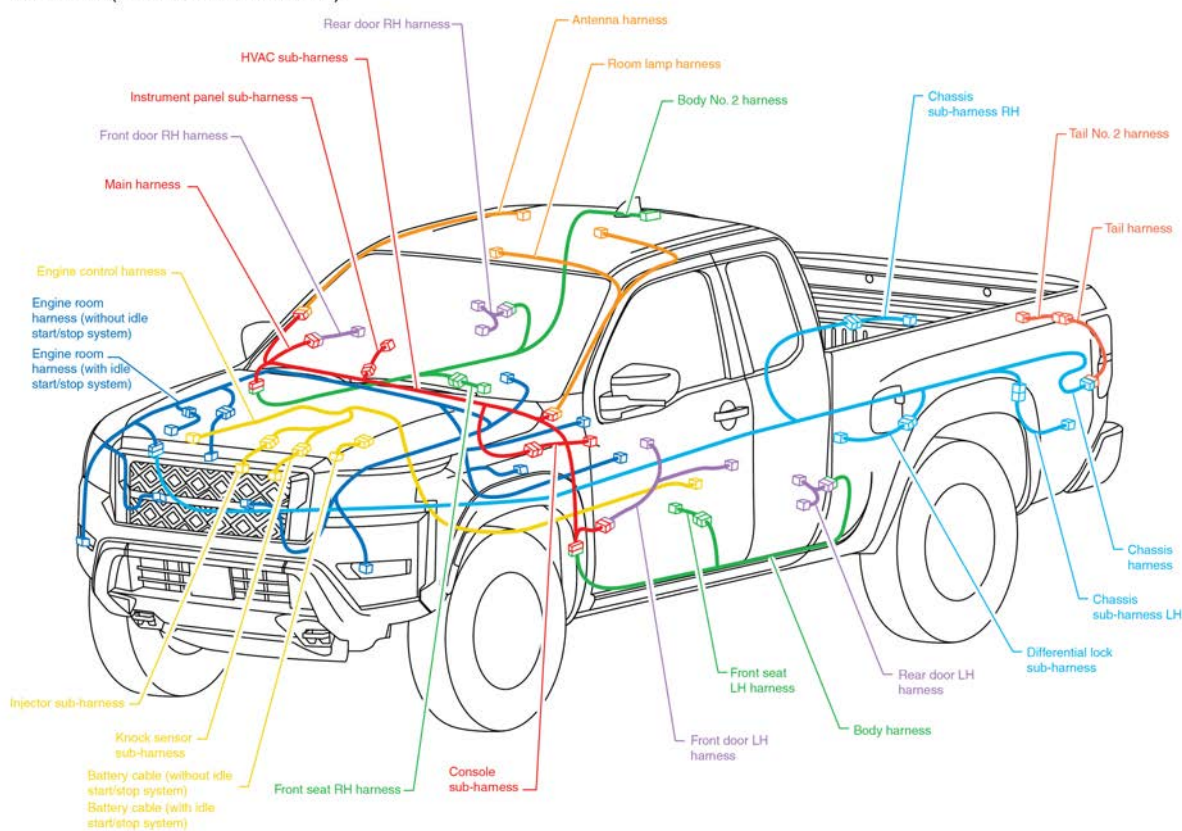
TGAZIA0049GB

Harness Outline — King Cab®

NOTE:

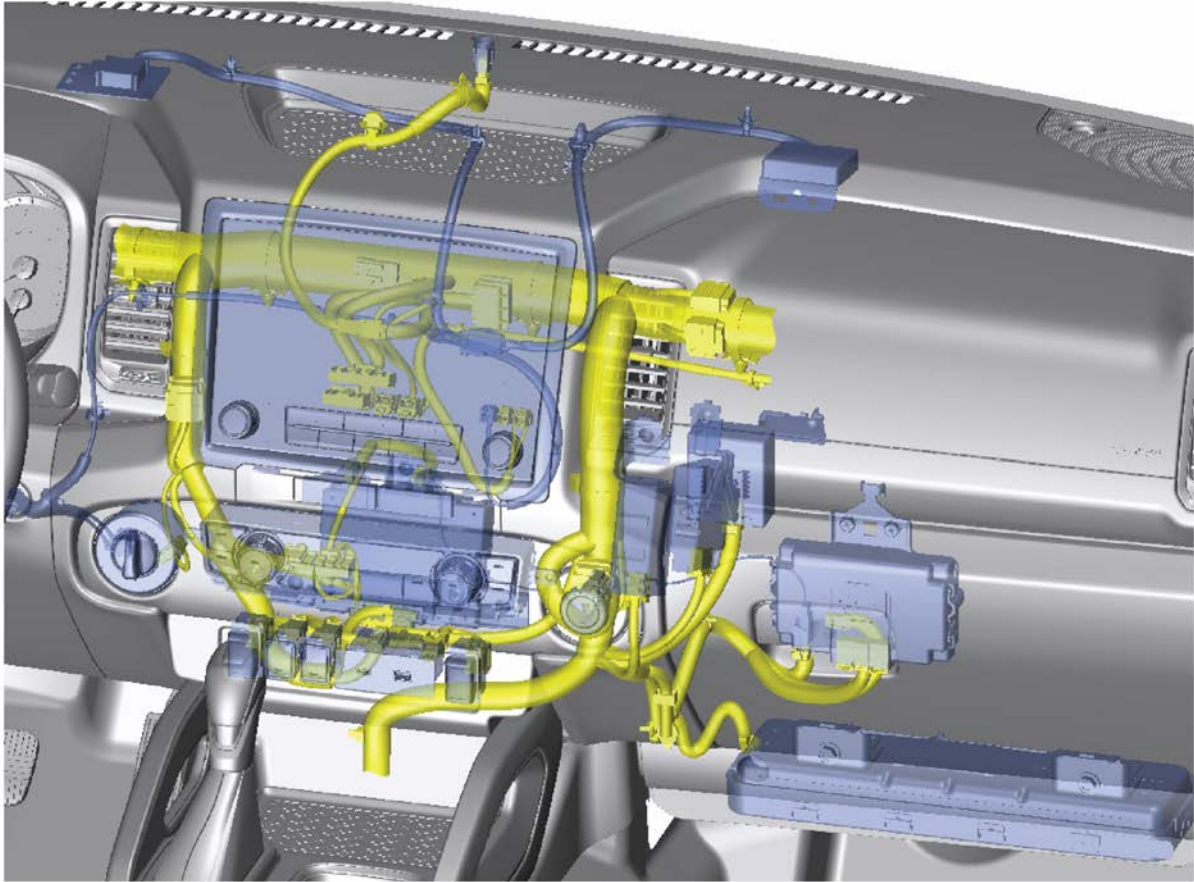
The harness outline shows all harnesses on the vehicle. The following pages show the harnesses that are fully or partially obstructed from view by sheet metal, trim, etc. Use care when working around harnesses to avoid vehicle damage.

OUTLINE (KING CAB® MODELS)



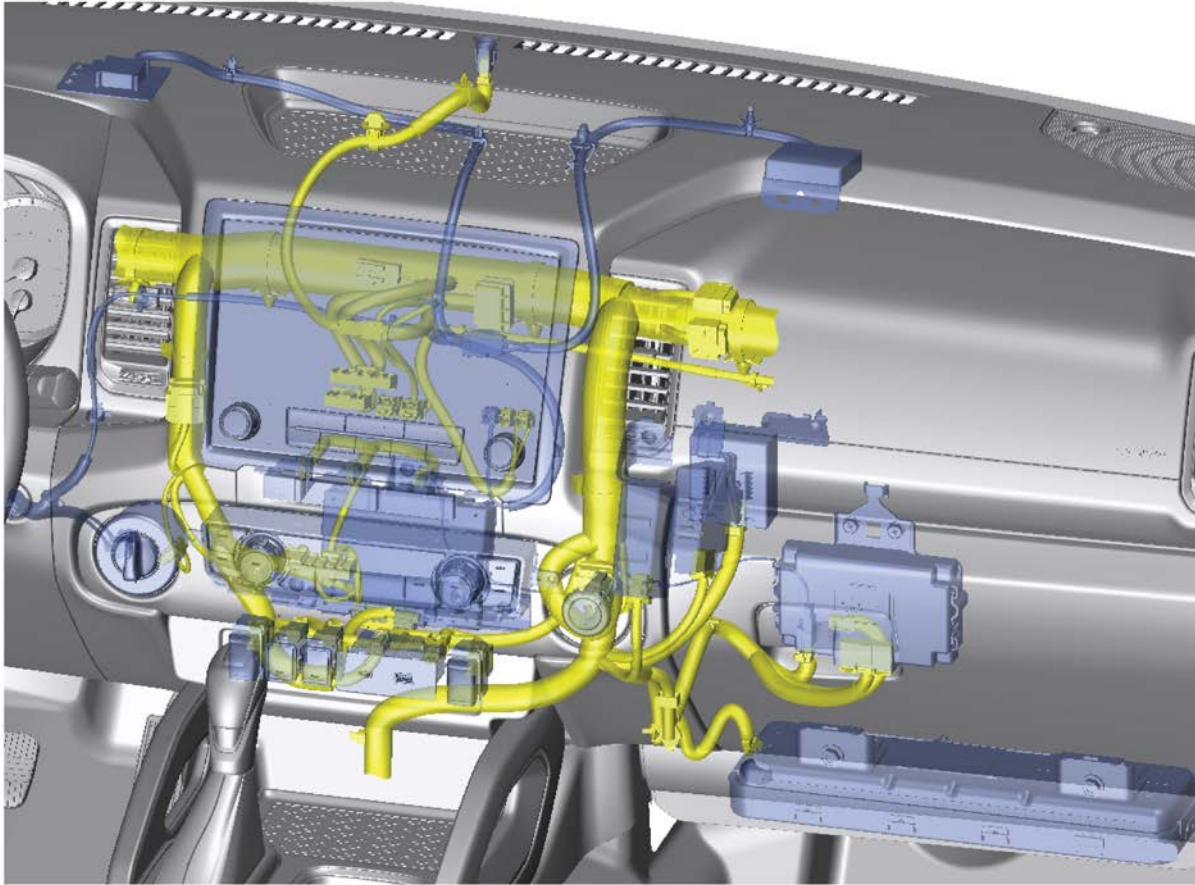
TGAZIA0050GB

Main Harness — Radio View 2022–2024 Model Years



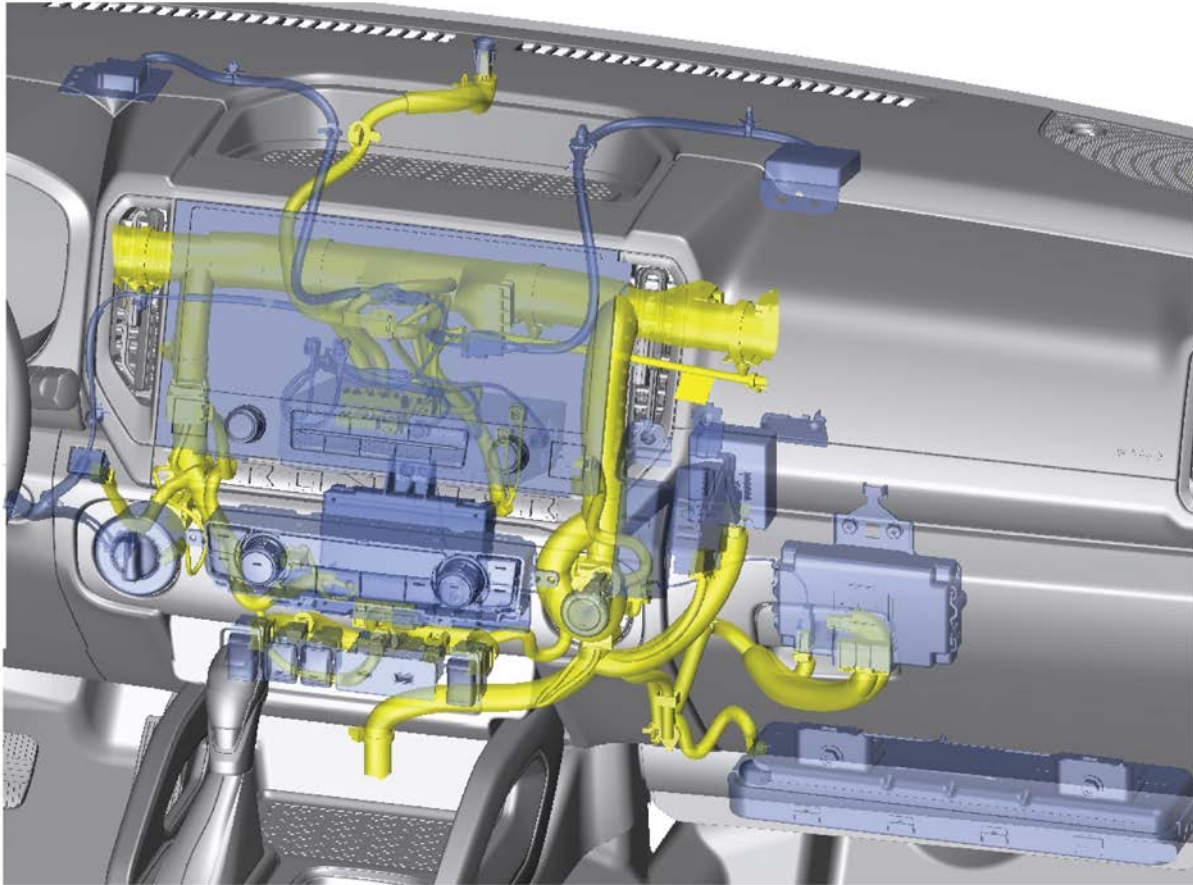
TGAZIA0311ZZ

Main Harness — Radio View With 8" Display Starting 2025 Model Year



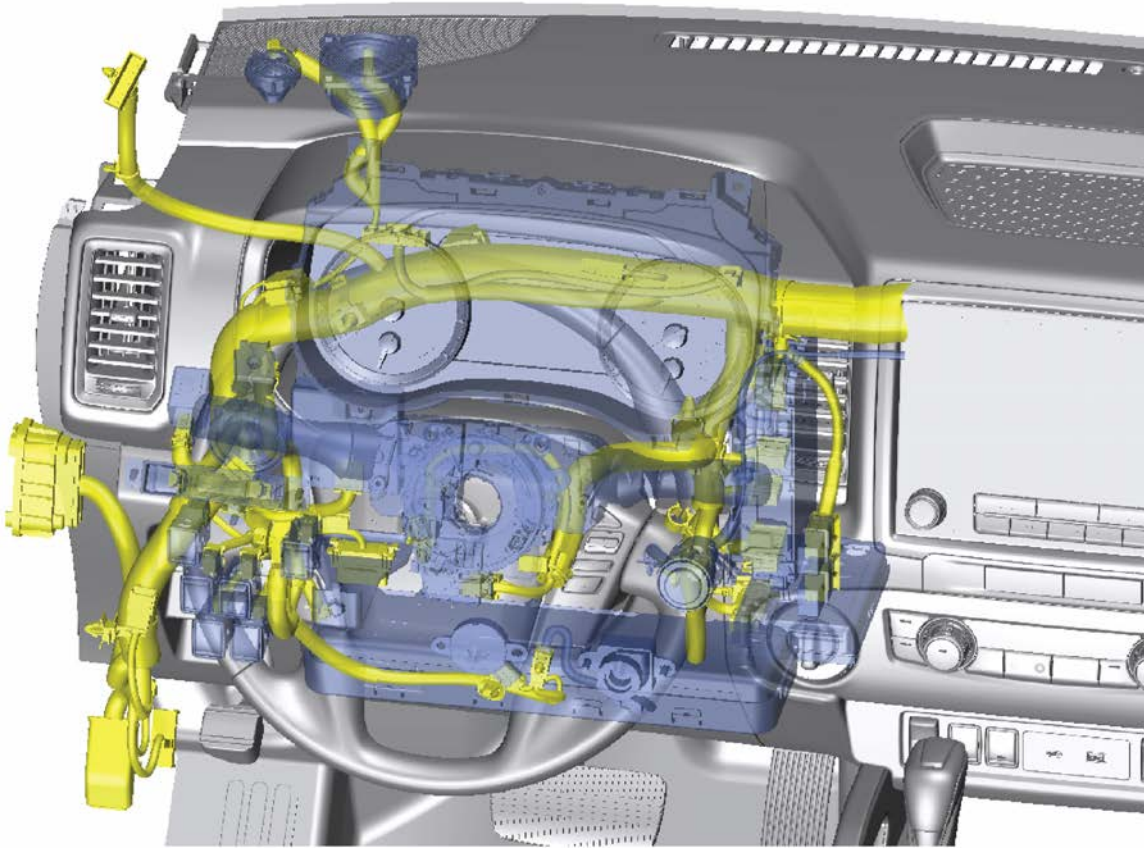
TGAAZIA0421ZZ

Main Harness — Radio View With 12.3" Display Starting 2025 Model Year



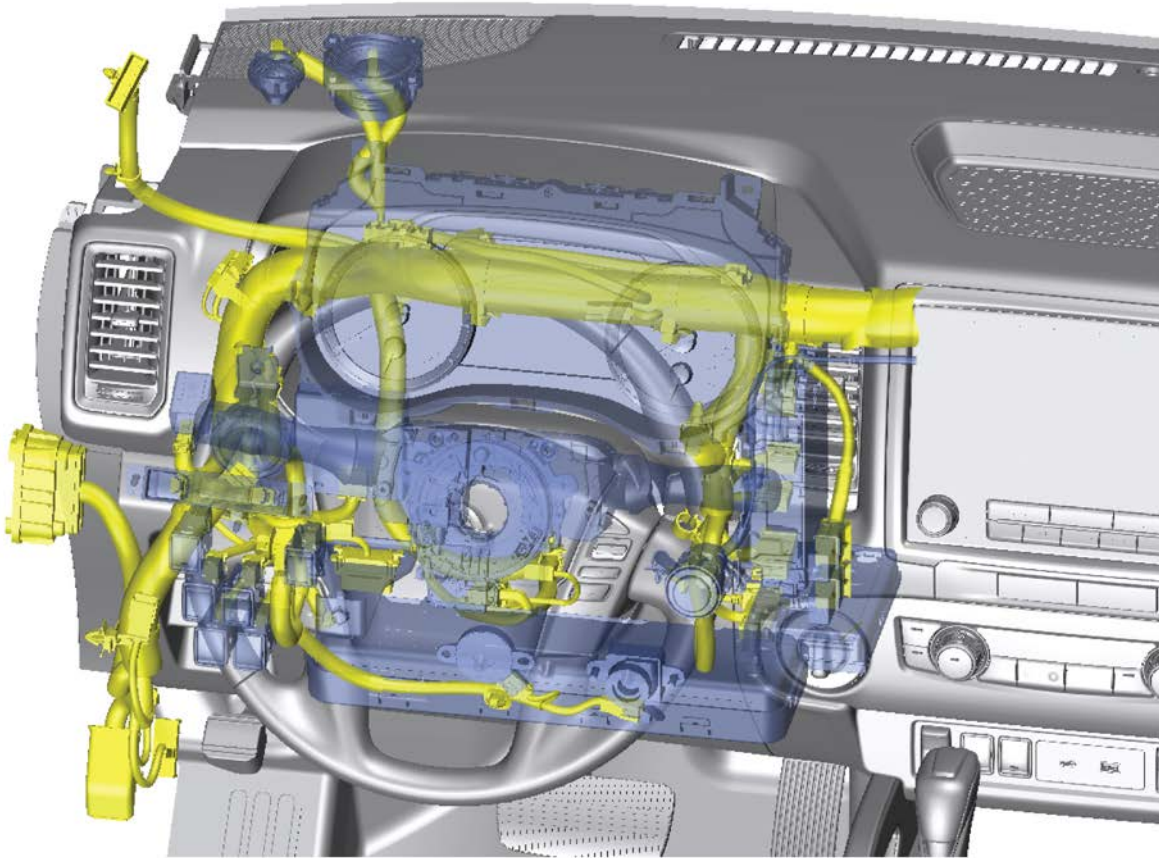
TGAAZIA0422ZZ

Main Harness — Instrument Panel LH View 2022-2024 Model Years



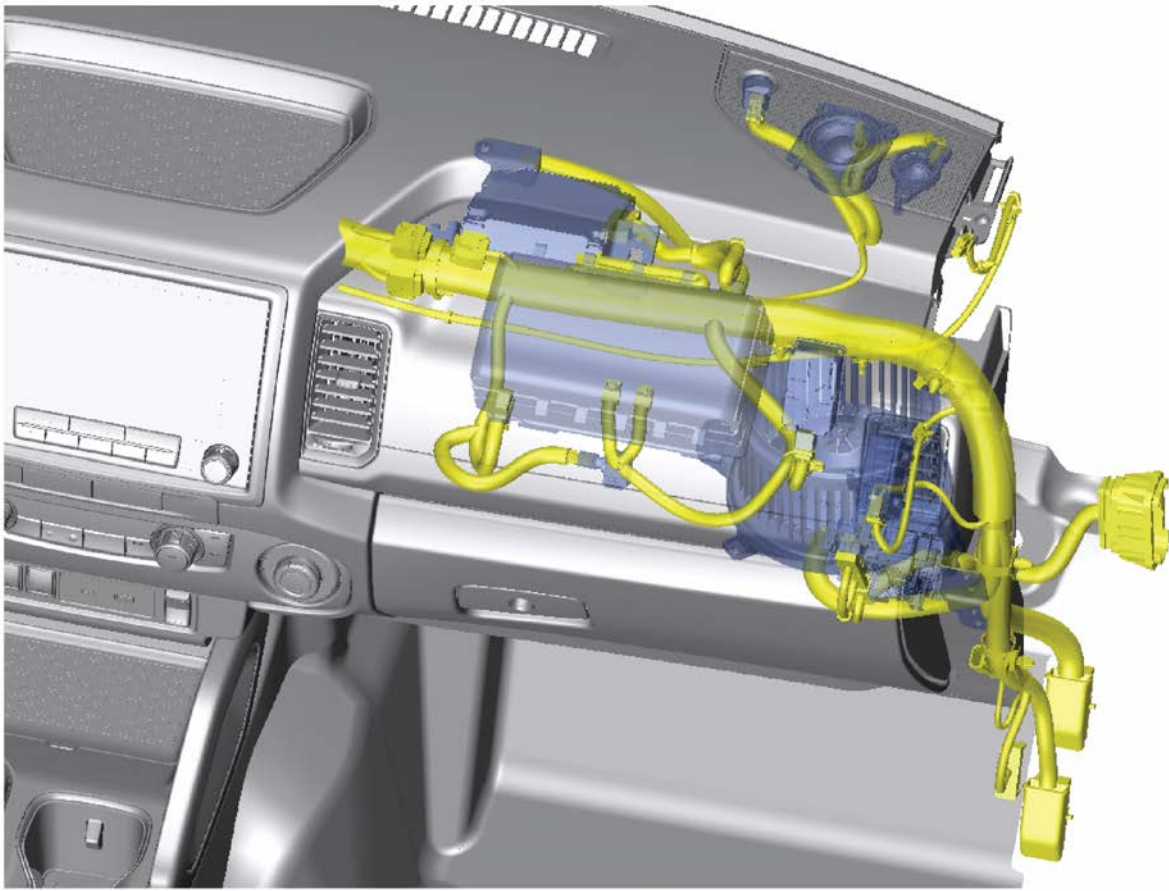
TGAZIA0312ZZ

Main Harness — Instrument Panel LH View Starting 2025 Model Year



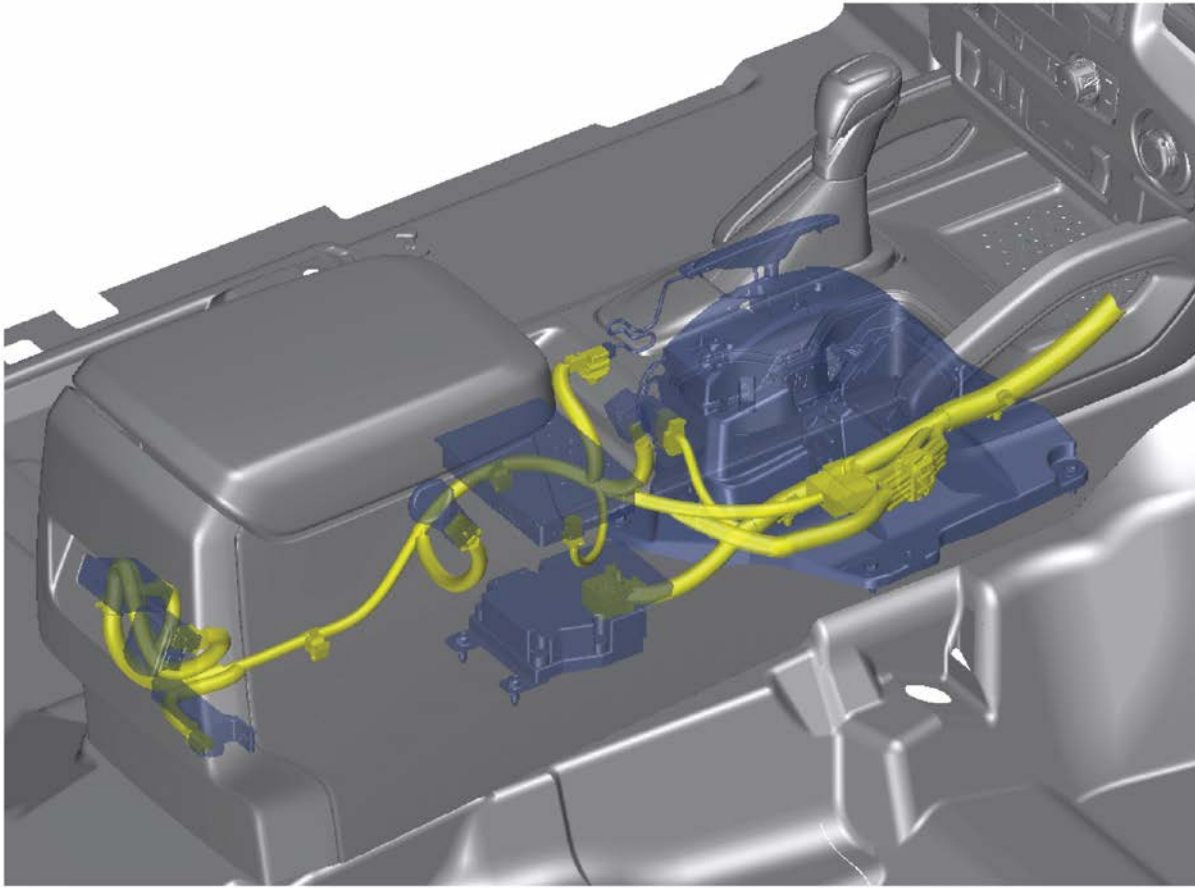
TGAZIA0423ZZ

Main Harness — Instrument Panel RH View



TGAZIA0313ZZ

Main Harness — Console View

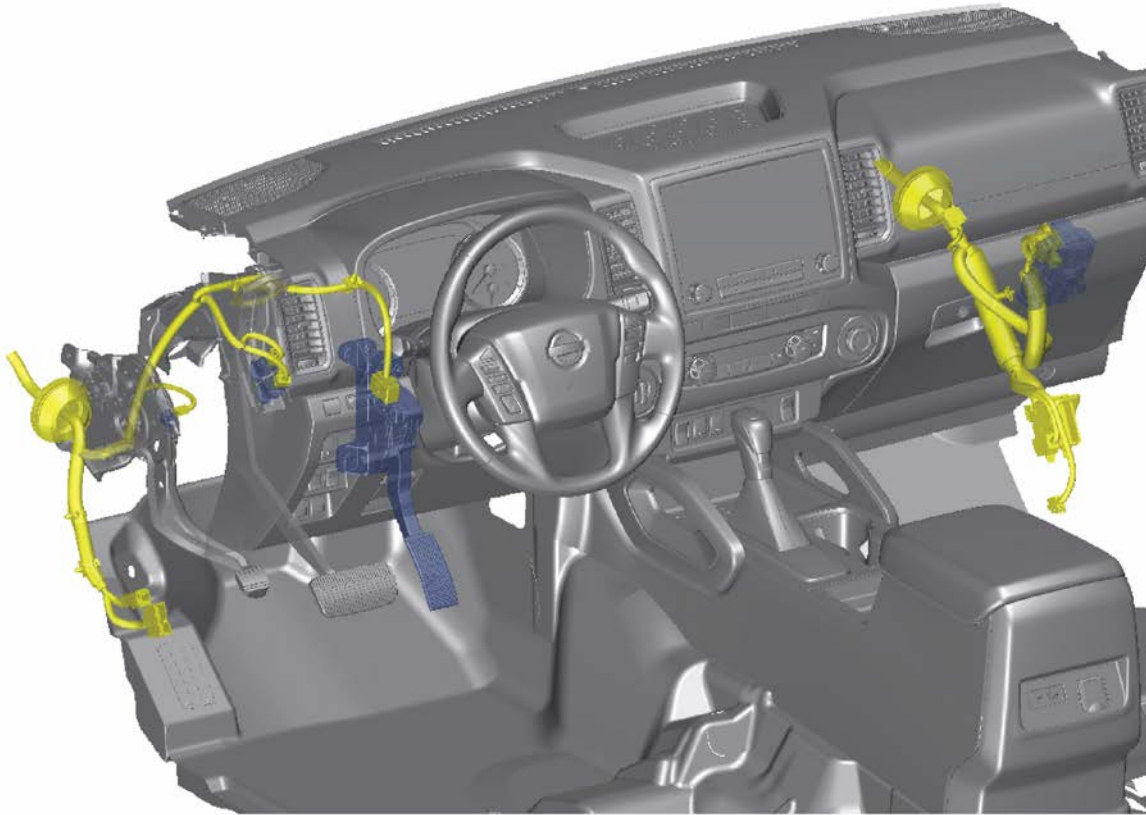


TGAAZIA0314ZZ

Engine Room Harness (Cabin View) – 2022 and 2023 early production

NOTE:

Check battery orientation to identify 2023 model year early or late production, refer to [How to identify Early/Late production \(pg. 81\)](#)

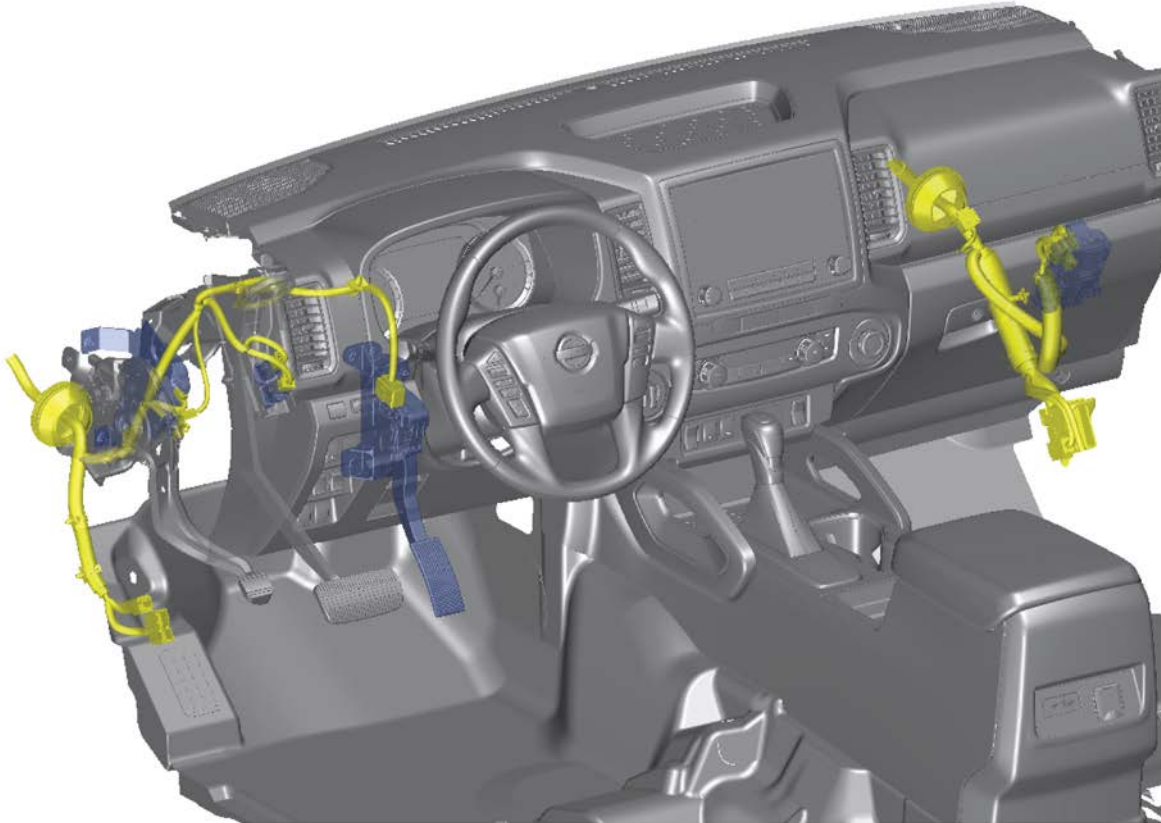


TGAAZIA0315ZZ

Engine Room Harness (Cabin View) – starting with 2023 late production

NOTE:

Check battery orientation to identify 2023 model year early or late production, refer to [How to identify Early/Late production \(pg. 81\)](#)

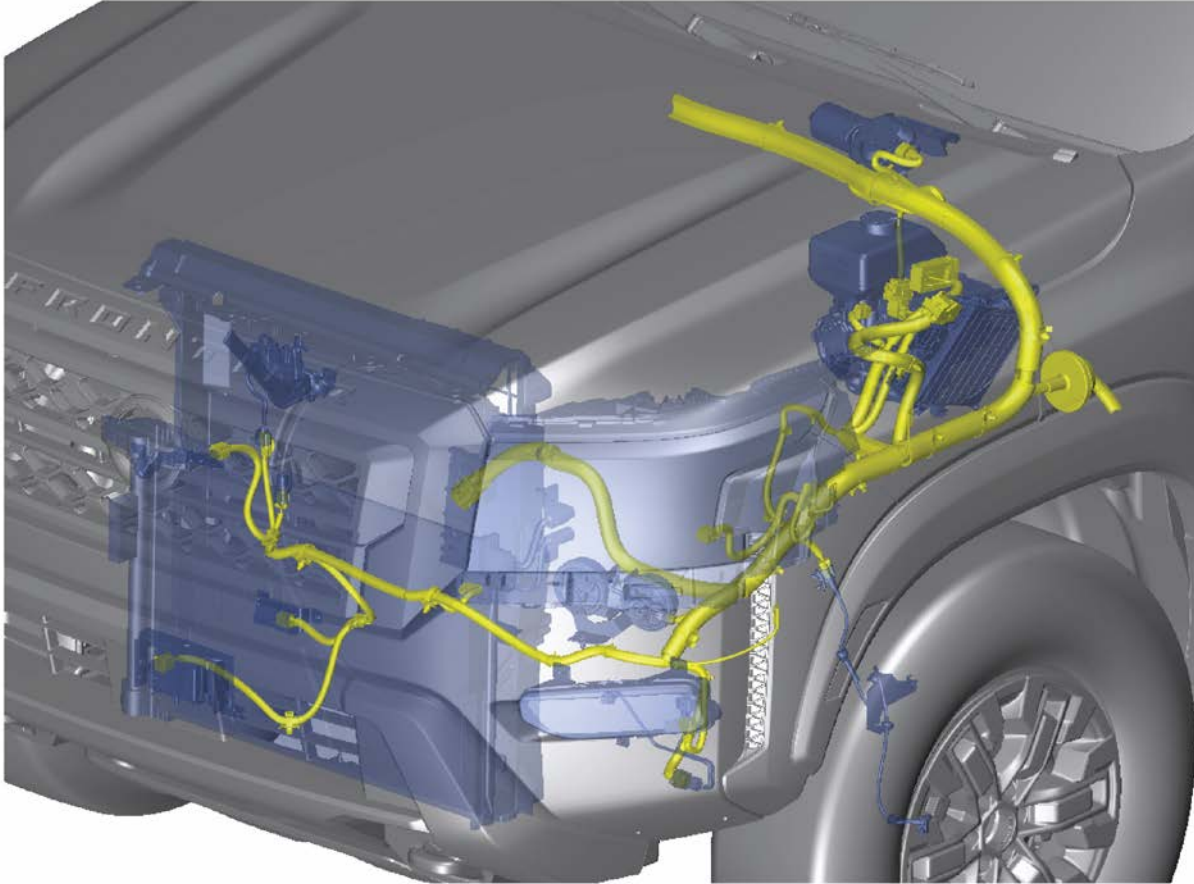


TGAAZIA0383ZZ

Engine Room Harness — LH View 2022 and 2023 early production

NOTE:

Check battery orientation to identify 2023 model year early or late production, refer to [How to identify Early/Late production \(pg. 81\)](#)

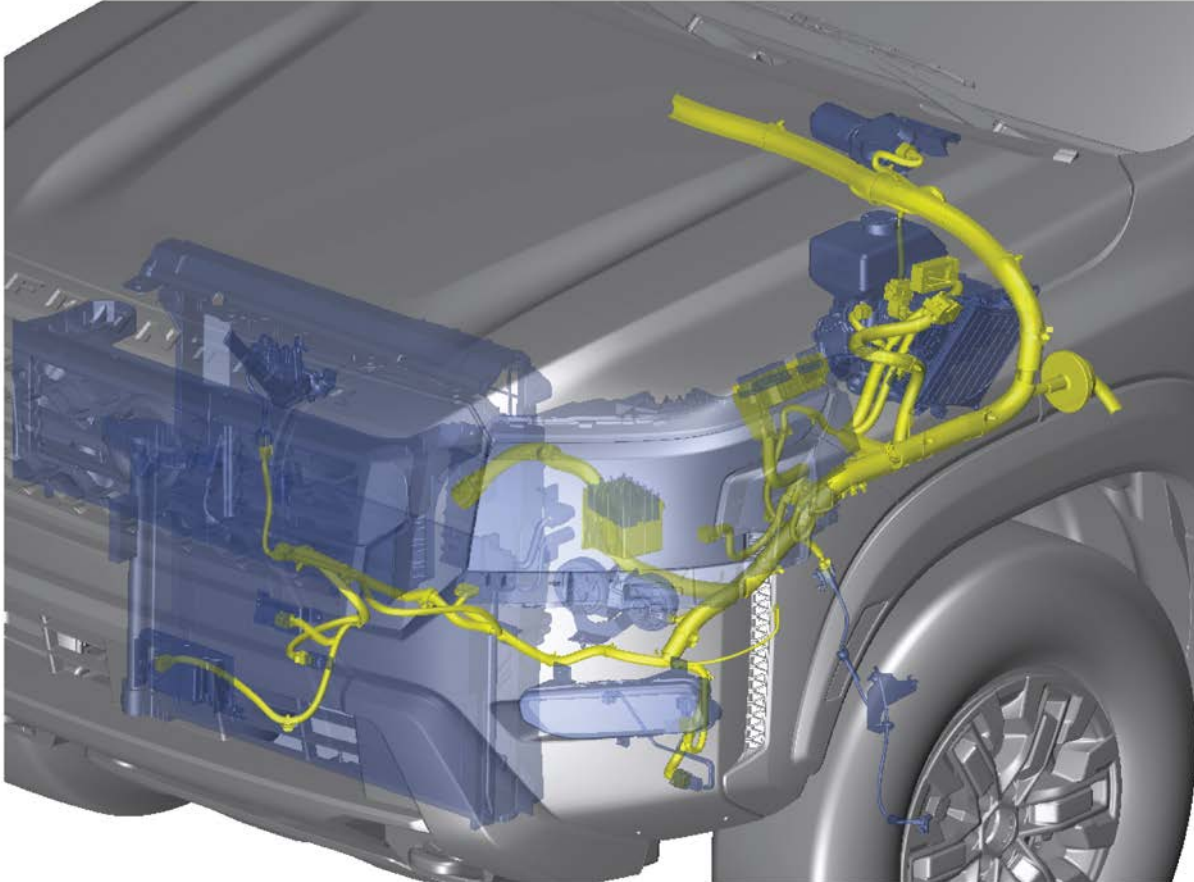


TGAZIA0316ZZ

Engine Room Harness — LH View — starting with 2023 late production

NOTE:

Check battery orientation to identify 2023 model year early or late production, refer to [How to identify Early/Late production \(pg. 81\)](#)

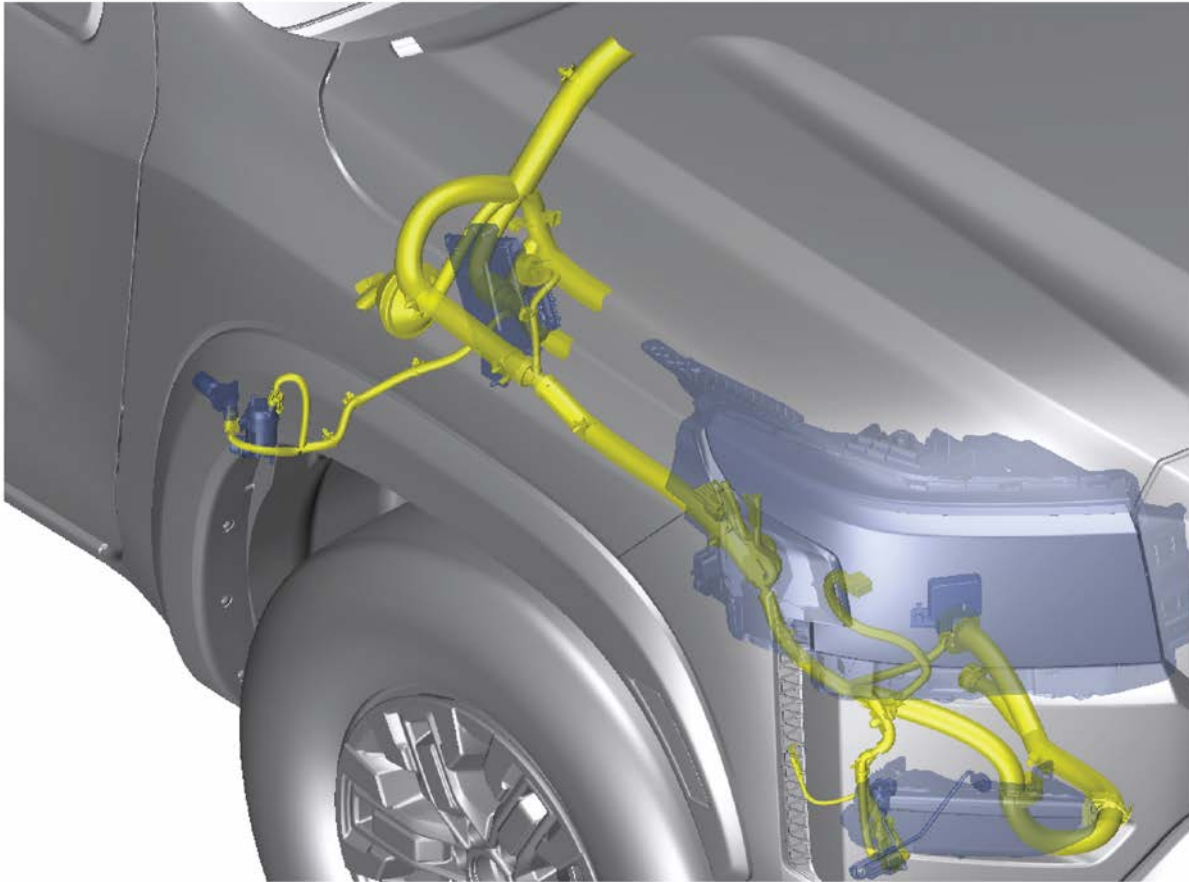


TGAZIA0384ZZ

Engine Room Harness — RH View 2022 and 2023 early production

NOTE:

Check battery orientation to identify 2023 model year early or late production, refer to [How to identify Early/Late production \(pg. 81\)](#)

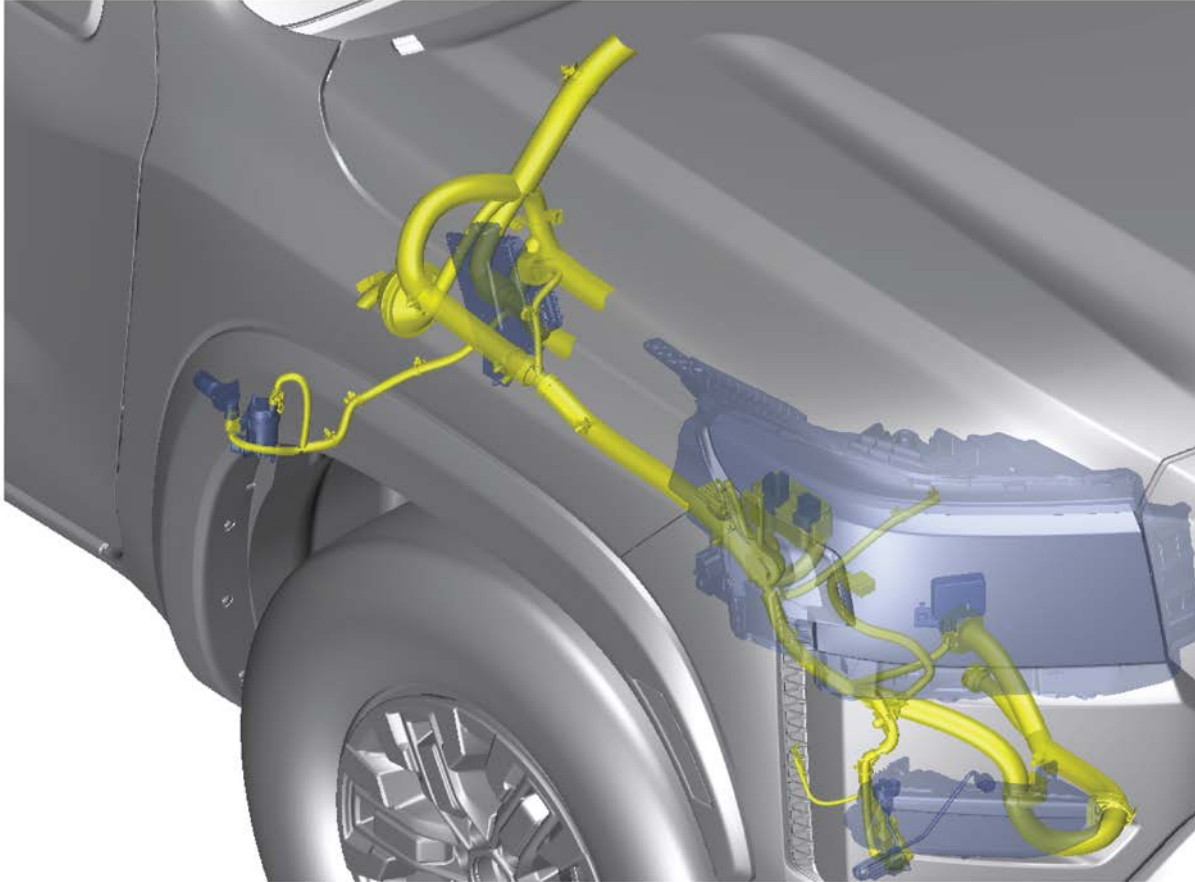


TGAZIA0317ZZ

Engine Room Harness — RH View starting with 2023 late production

NOTE:

Check battery orientation to identify 2023 model year early or late production, refer to [How to identify Early/Late production \(pg. 81\)](#)

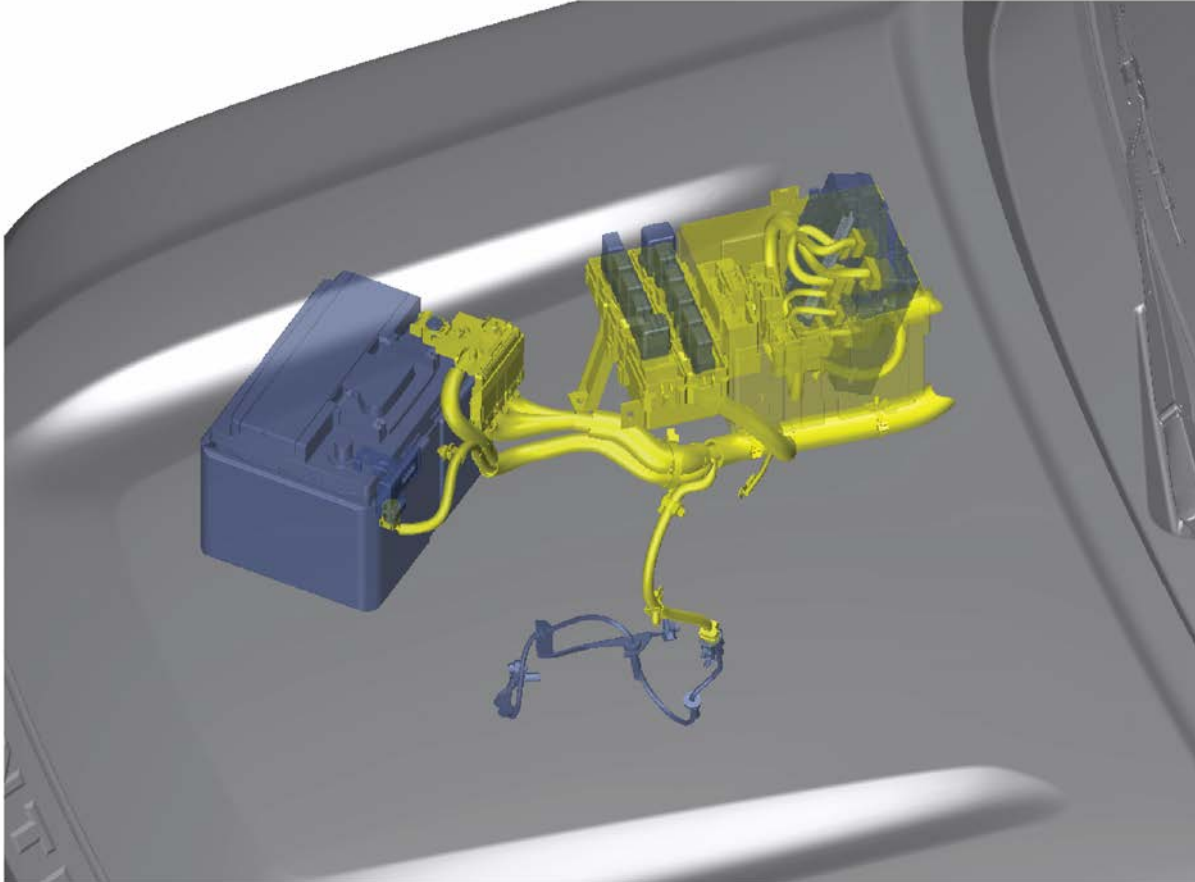


TGAAZIA0385ZZ

Engine Room Harness — Battery View — 2022–2023 Early Production

NOTE:

Check battery orientation to identify 2023 model year early or late production, refer to [How to identify Early/Late production \(pg. 81\)](#)

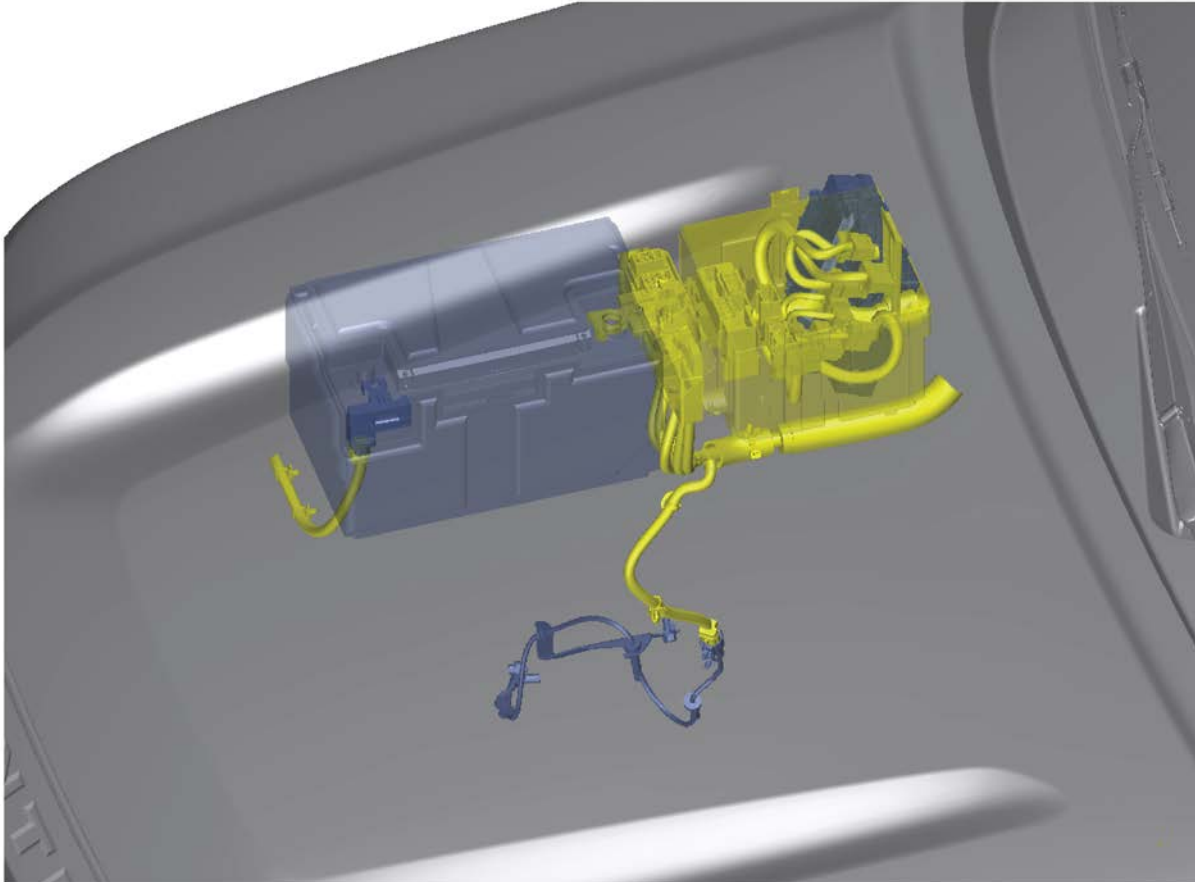


TGAZIA0318ZZ

Engine Room Harness — Battery View starting with 2023 Late Production

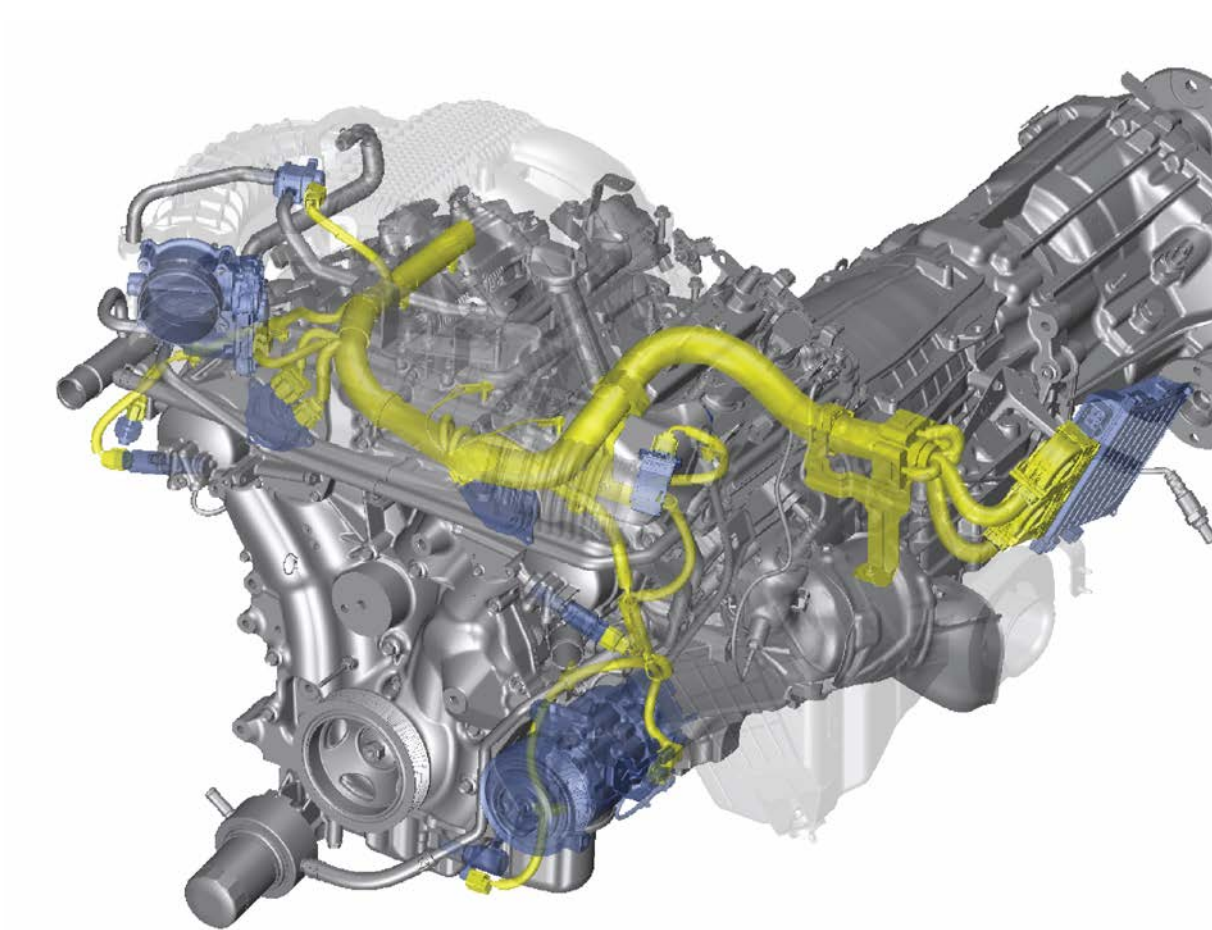
NOTE:

Check battery orientation to identify 2023 model year early or late production, refer to [How to identify Early/Late production \(pg. 81\)](#)



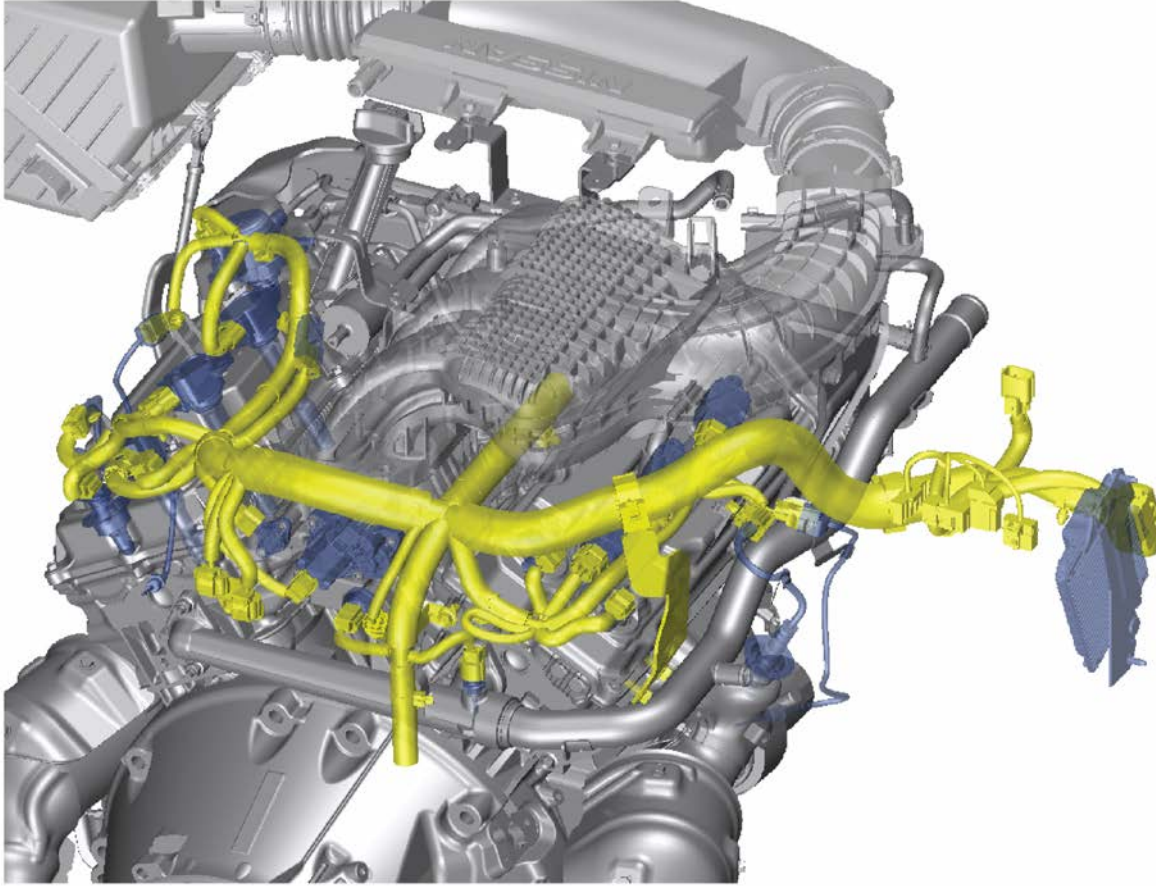
TGAZIA0381ZZ

Engine Control Harness — LH View



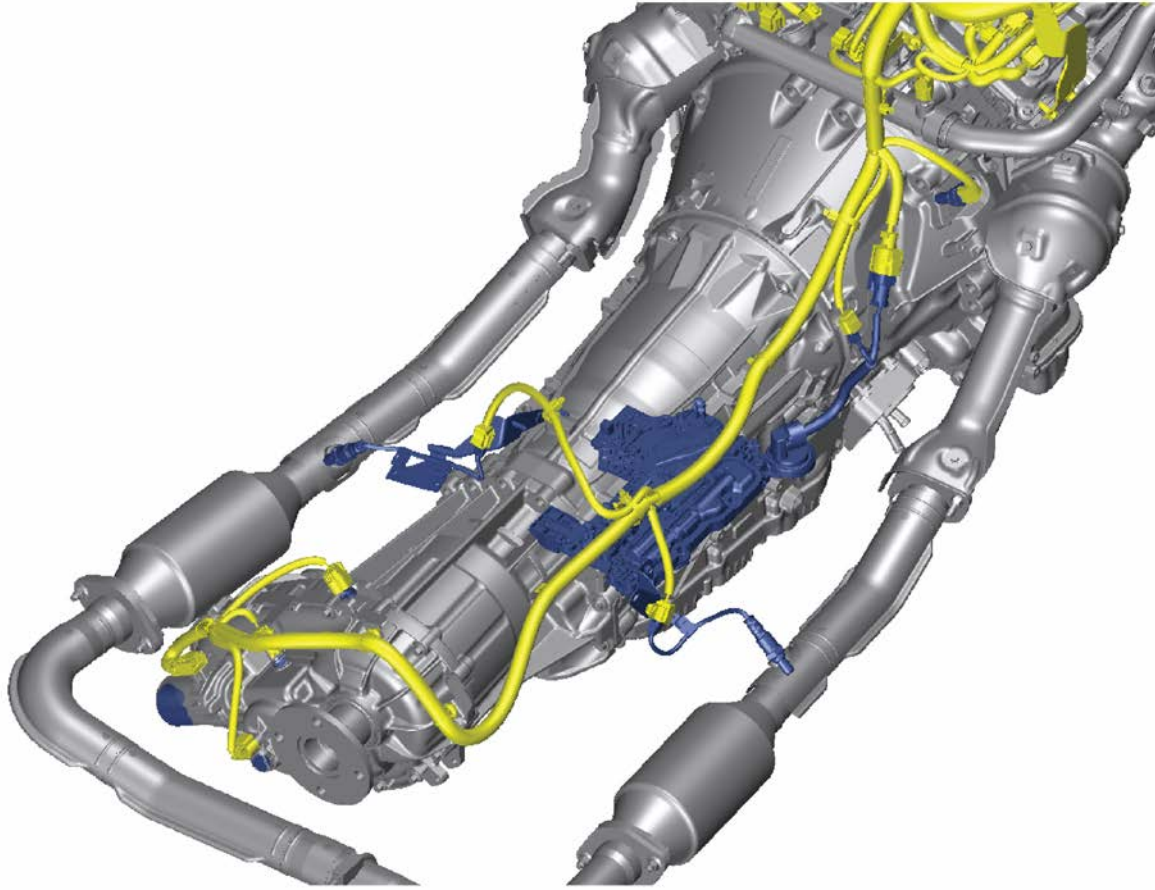
TGAZIA0319ZZ

Engine Control Harness — RH View



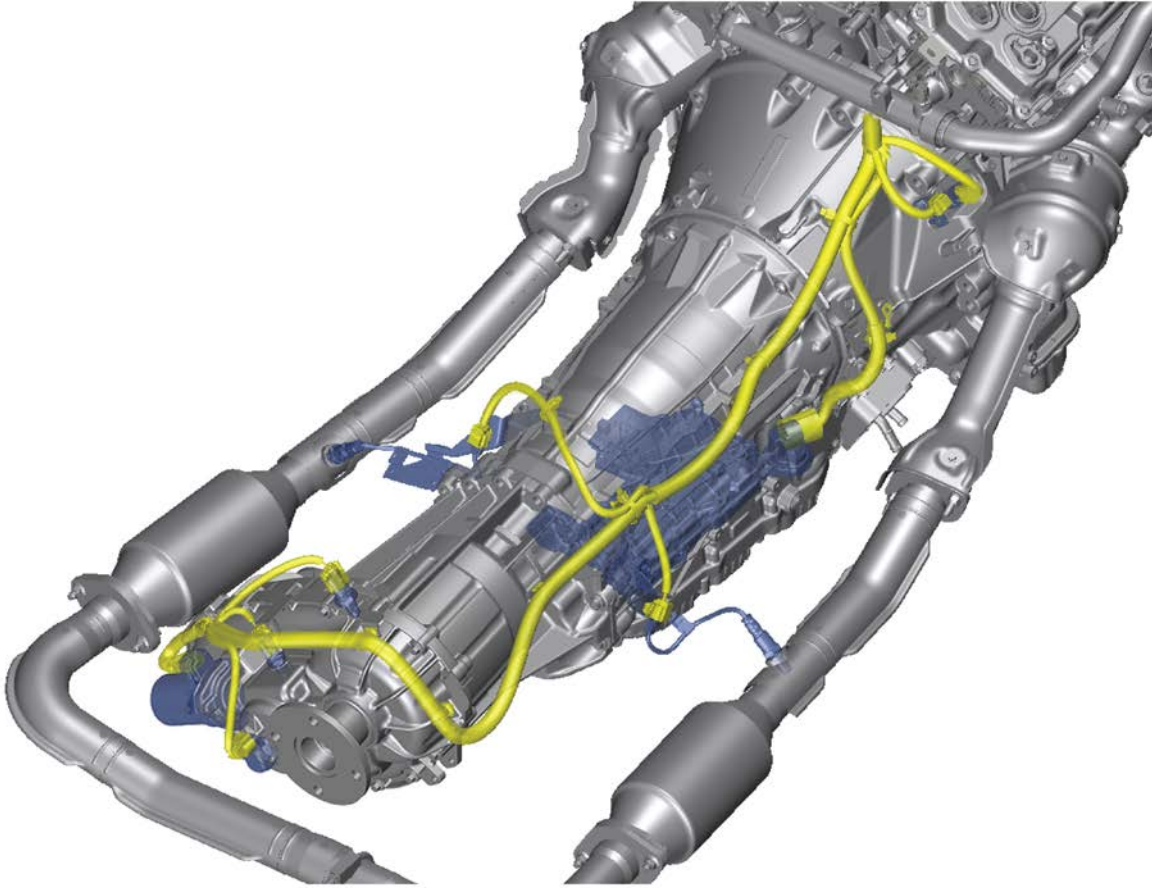
TGAZIA0320ZZ

Engine Control Harness — Transmission View 2022–2024 Model Years



TGAAZIA0321ZZ

Engine Control Harness — Transmission View Starting 2025 Model Year

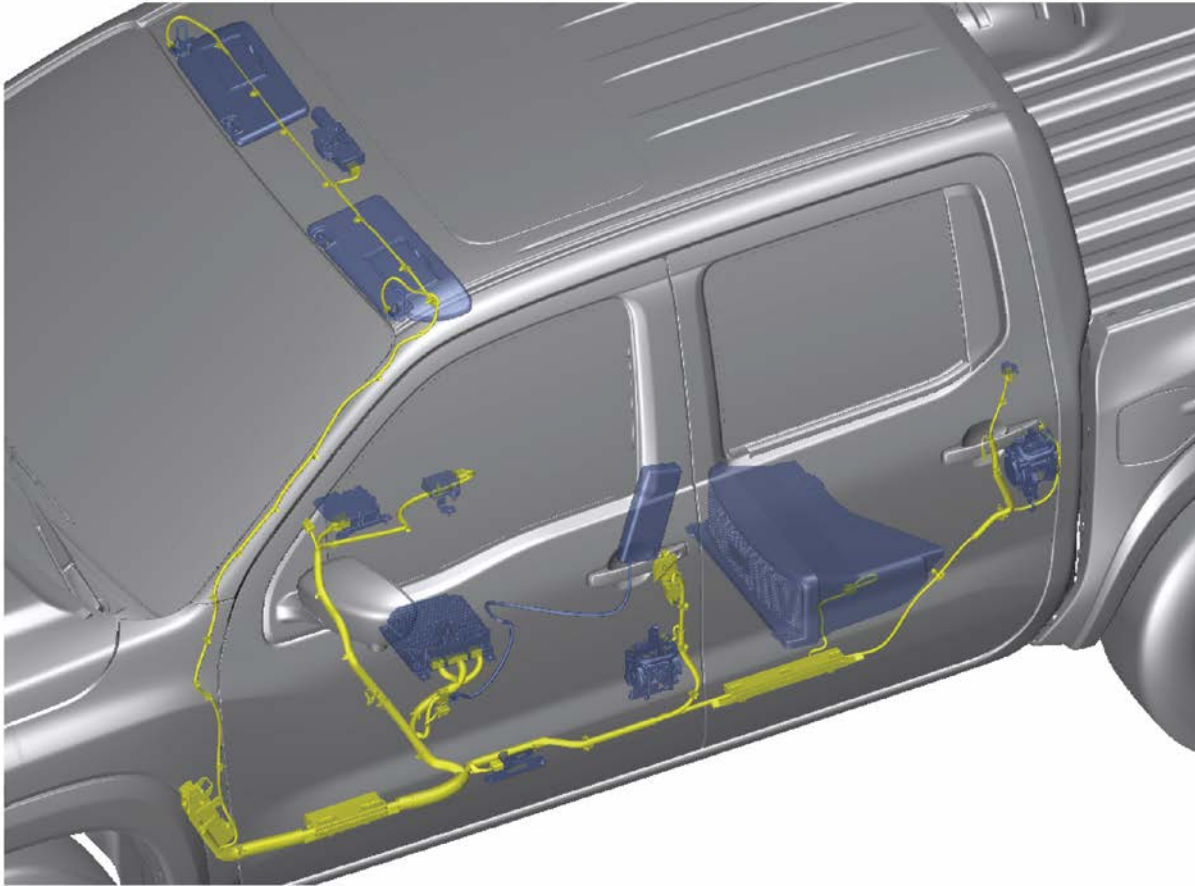


TGAAZIA0424ZZ

Body Harness — Crew Cab – 2022 and 2023 early production

NOTE:

Check battery orientation to identify 2023 model year early or late production, refer to [How to identify Early/Late production \(pg. 81\)](#)

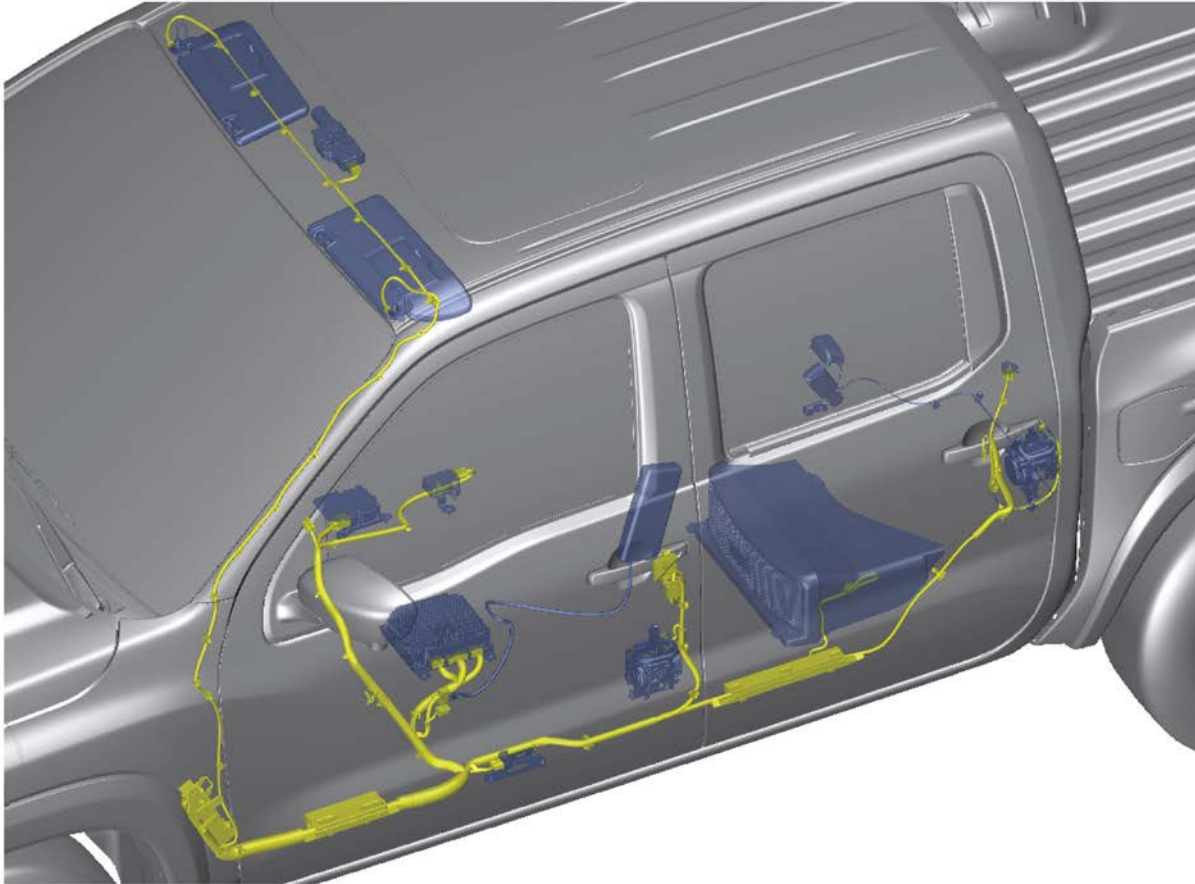


TGAAZIA0322ZZ

Body Harness — Crew Cab — starting with 2023 late production

NOTE:

Check battery orientation to identify 2023 model year early or late production, refer to [How to identify Early/Late production \(pg. 81\)](#)

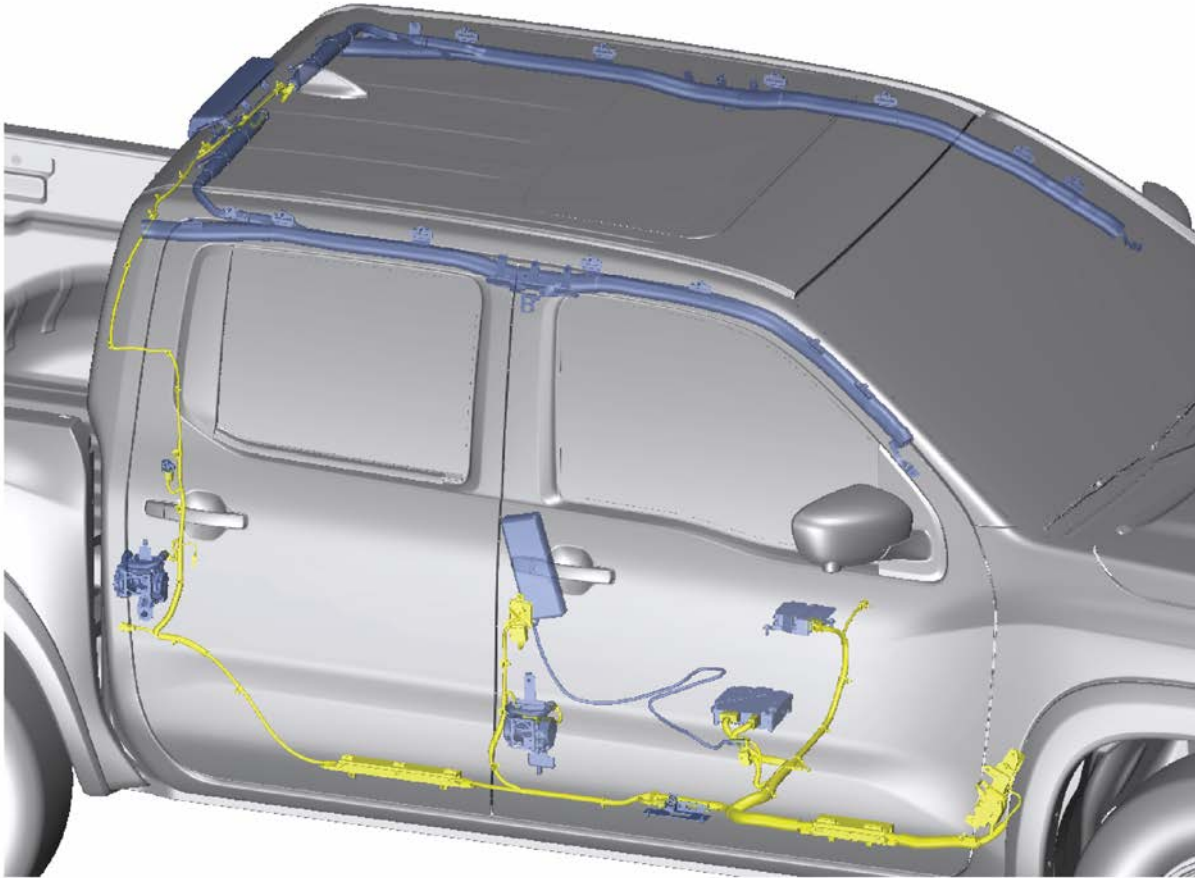


TGAAZIA0386ZZ

Body Harness No. 2 — Crew Cab — 2022 and 2023 early production

NOTE:

Check battery orientation to identify 2023 model year early or late production, refer to [How to identify Early/Late production \(pg. 81\)](#)

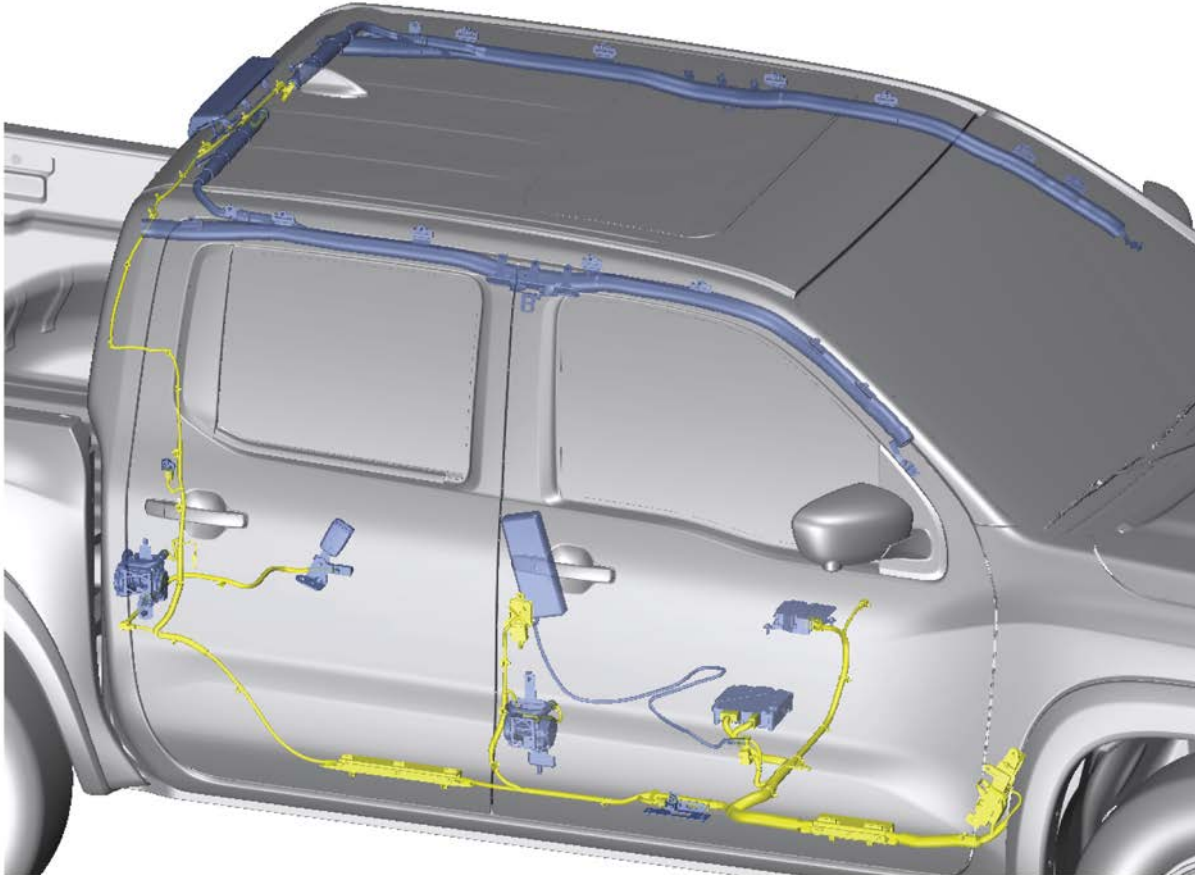


TGAZIA0323ZZ

Body Harness No. 2 — Crew Cab — starting with 2023 late production

NOTE:

Check battery orientation to identify 2023 model year early or late production, refer to [How to identify Early/Late production \(pg. 81\)](#)

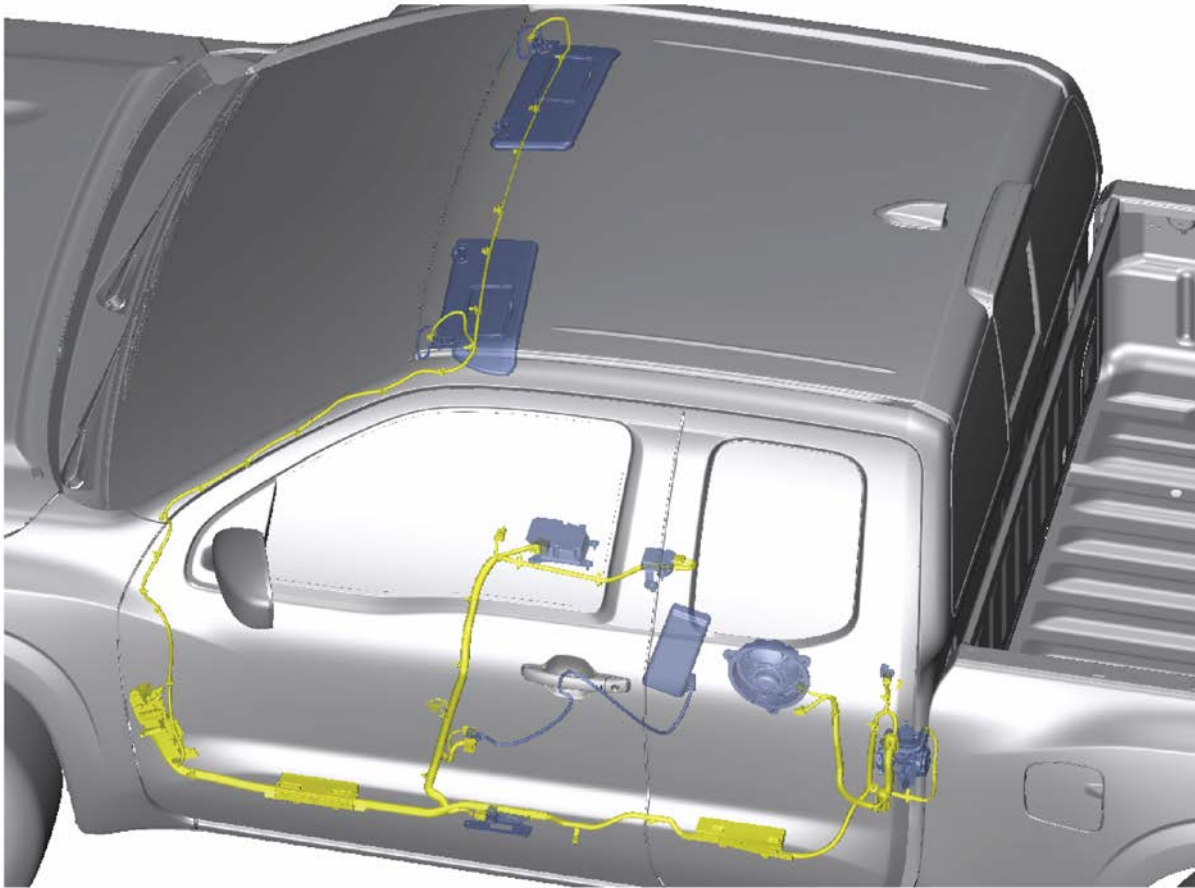


TGAZIA0387ZZ

Body Harness — King Cab® – 2022 and 2023 early production

NOTE:

Check battery orientation to identify 2023 model year early or late production, refer to [How to identify Early/Late production \(pg. 81\)](#)

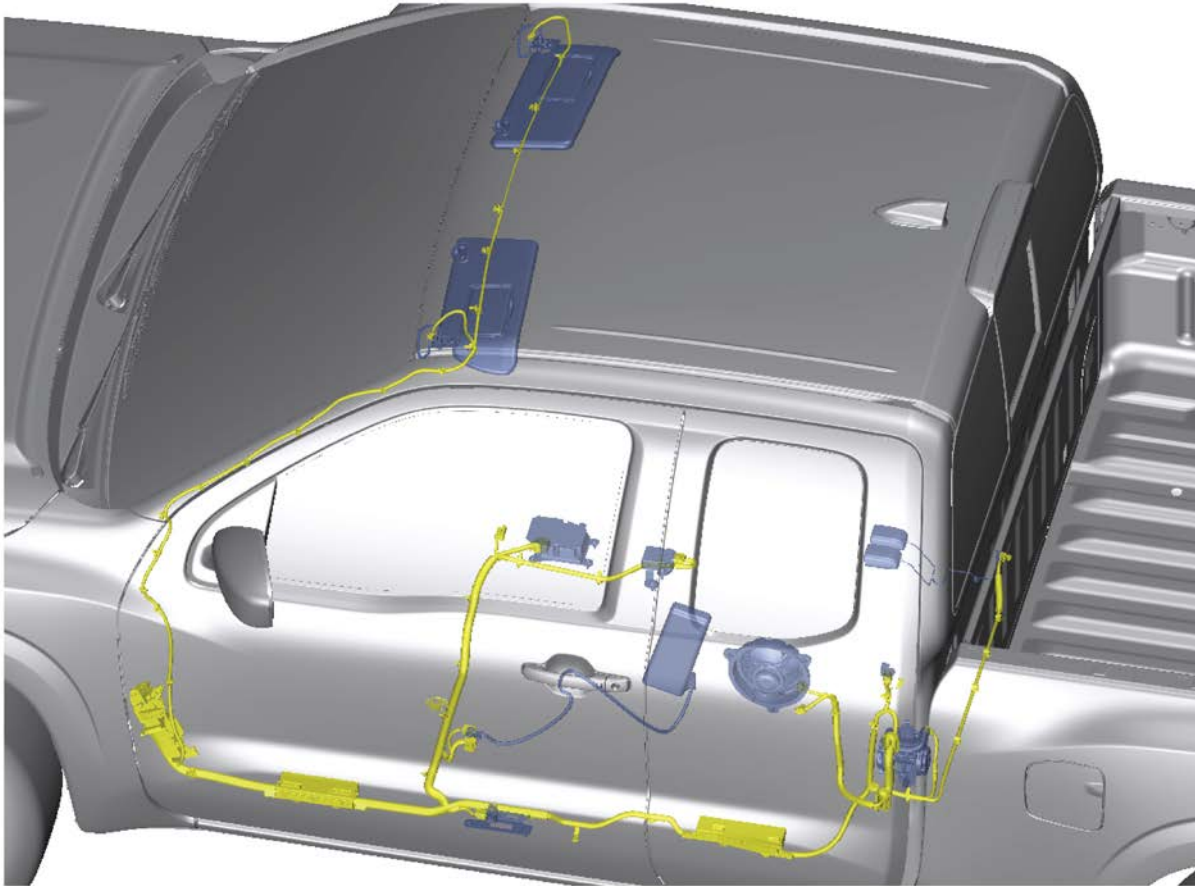


TGAZIA0324ZZ

Body Harness — King Cab® – starting with 2023 late production

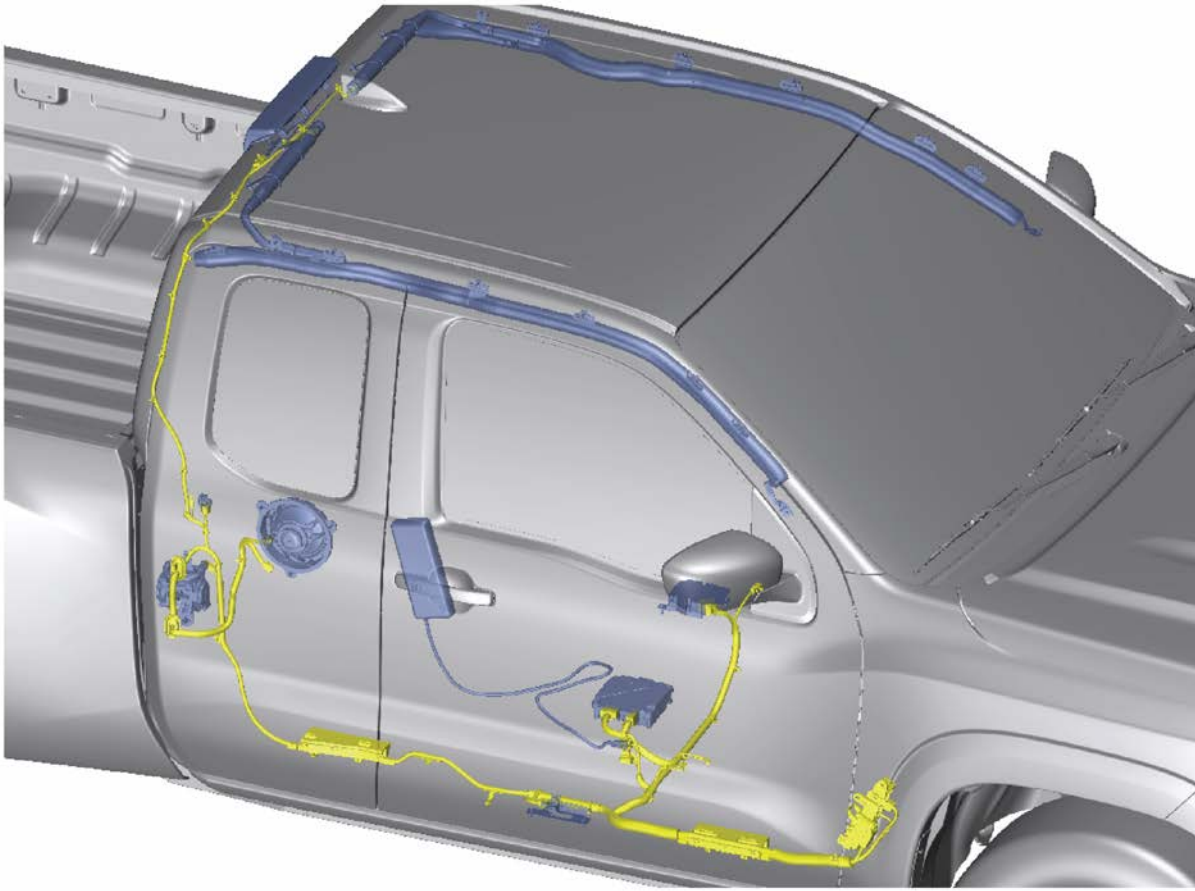
NOTE:

Check battery orientation to identify 2023 model year early or late production, refer to [How to identify Early/Late production \(pg. 81\)](#)



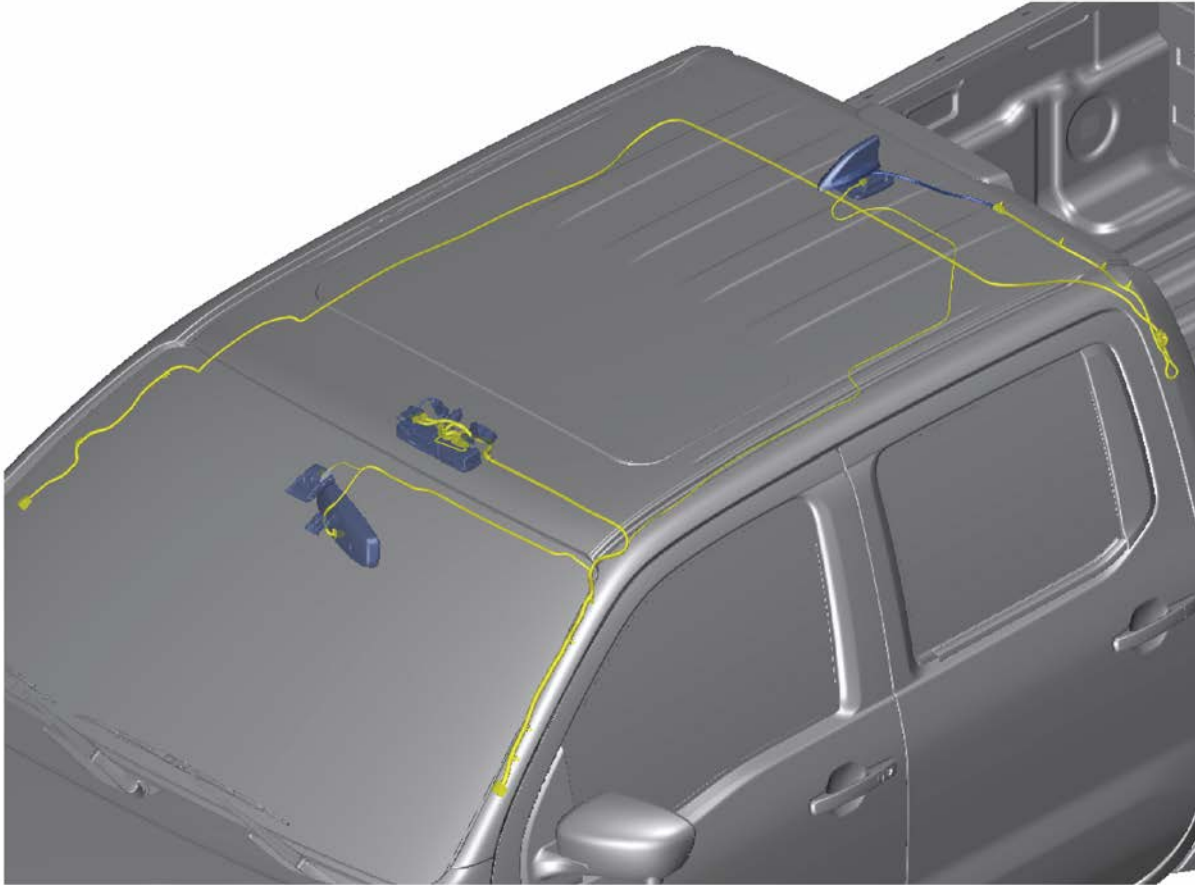
TGAAZIA0388ZZ

Body Harness No. 2 — King Cab®



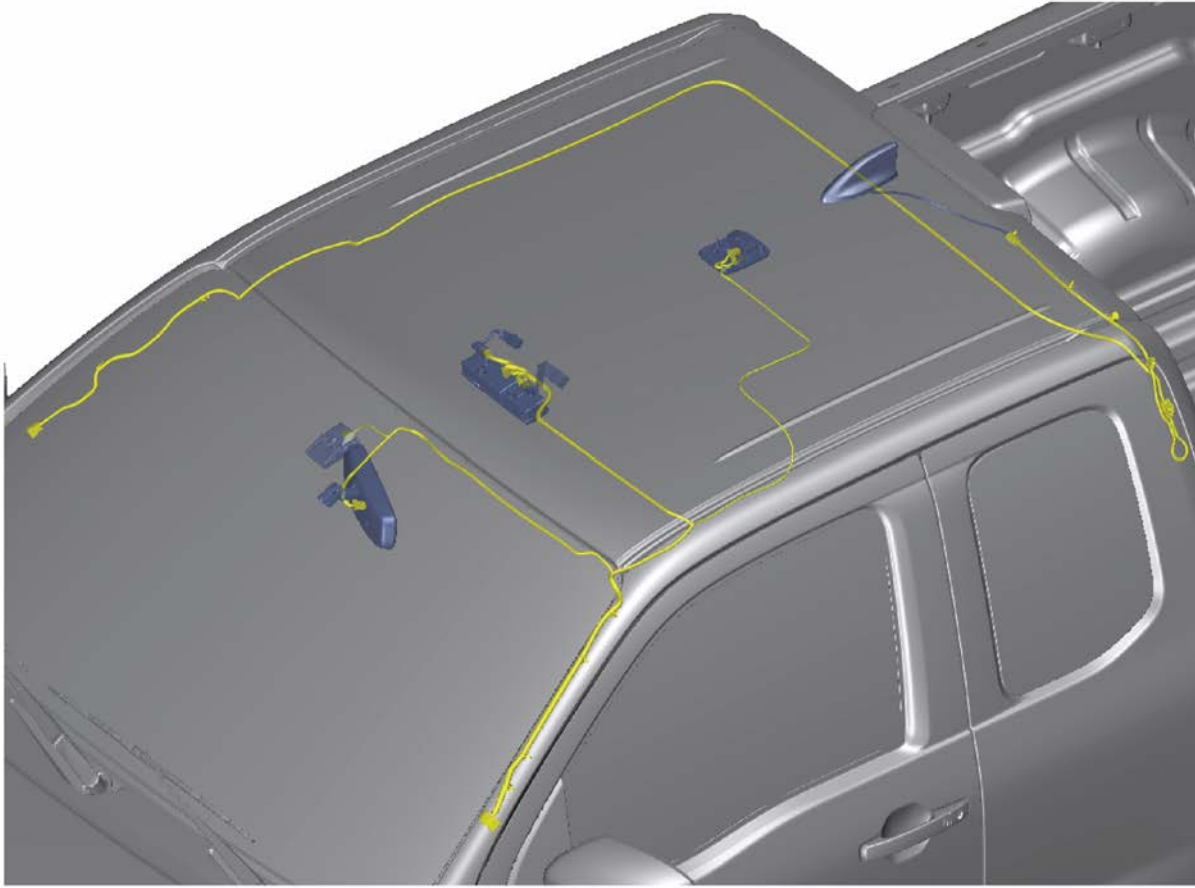
TGAAZIA0325ZZ

Room Lamp Harness — Crew Cab



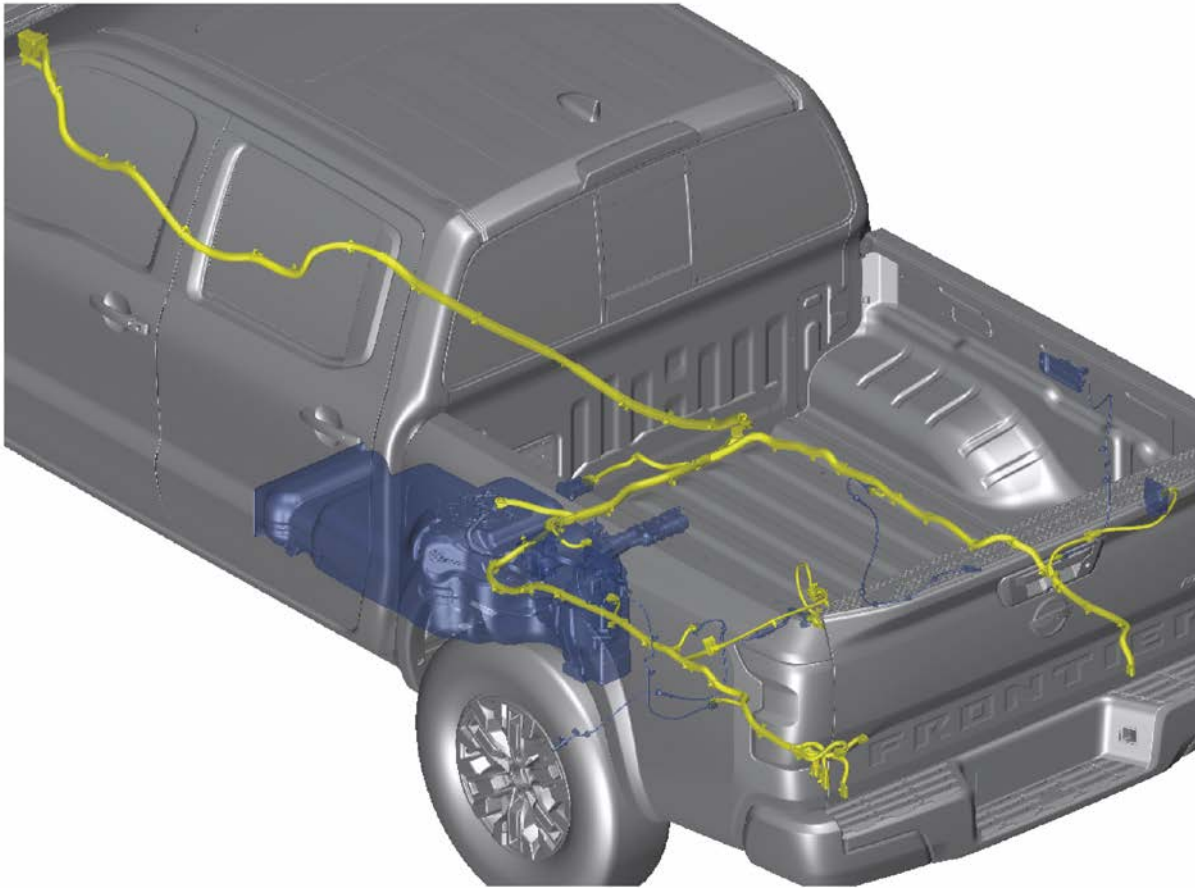
TGAZIA0326ZZ

Room Lamp Harness — King Cab®



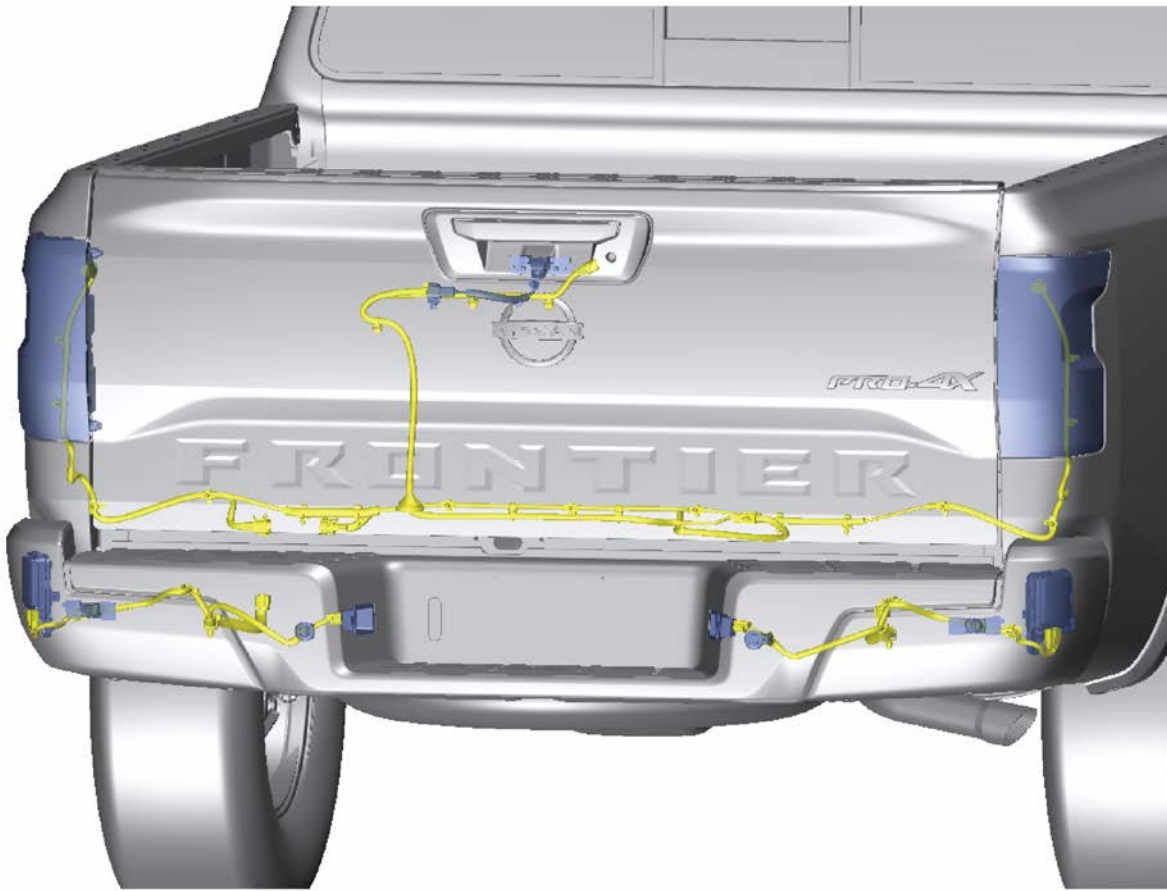
TGAZIA0327ZZ

Chassis Harness



TGAZIA0328ZZ

Tail Harness



TGAZIA0329ZZ

BULBS

Exterior Lamp

Item		Wattage (W)*	Bulb No.*
Front combination lamp (without LED)	Headlamp low/high (Halogen)	55/65	HB5
	Turn signal/parking lamp	28/8	7444NA
	Side marker	—	—
Front combination lamp (with LED)	Headlamp low (LED)	—	—
	Headlamp high (LED)	—	—
	Daytime running lamps/parking lamp	—	—
	Turn signal	—	—
	Side marker	—	—
Front fog lamp assembly (without LED)	Fog lamp	35	H8
	Daytime running lamps	21	W21W
Front fog lamp (with LED)		—	—
Rear combination lamp	Stop/turn lamp	—	—
	Back-up lamp	—	—
	Tail lamp	—	—
High-mounted stop lamp/cargo lamp		12.8	912
Under rail bed lamp		—	—
License plate lamp		—	—

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

Interior Lamp/Illumination

Item	Wattage (W)*	Bulb No.*
Map lamp	8	—
Room lamp (except LED type)	8	—
Room lamp (LED type)	—	—
Vanity lamp	1.4	—
Glove box lamp	1	—

* 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:

- Make sure all tires are inflated to correct pressure.
- Place vehicle and screen on level surface.
- Make sure there is no load in vehicle other than the driver (or equivalent weight placed in driver position).
- Coolant and engine oil filled to correct level and fuel tank full.
- Remove cargo and/or luggage to maintain an unloaded vehicle condition.
- Confirm spare tire, jack and tools are properly stowed.
- Carefully wipe off any dirt from the headlamp lens.



CAUTION:

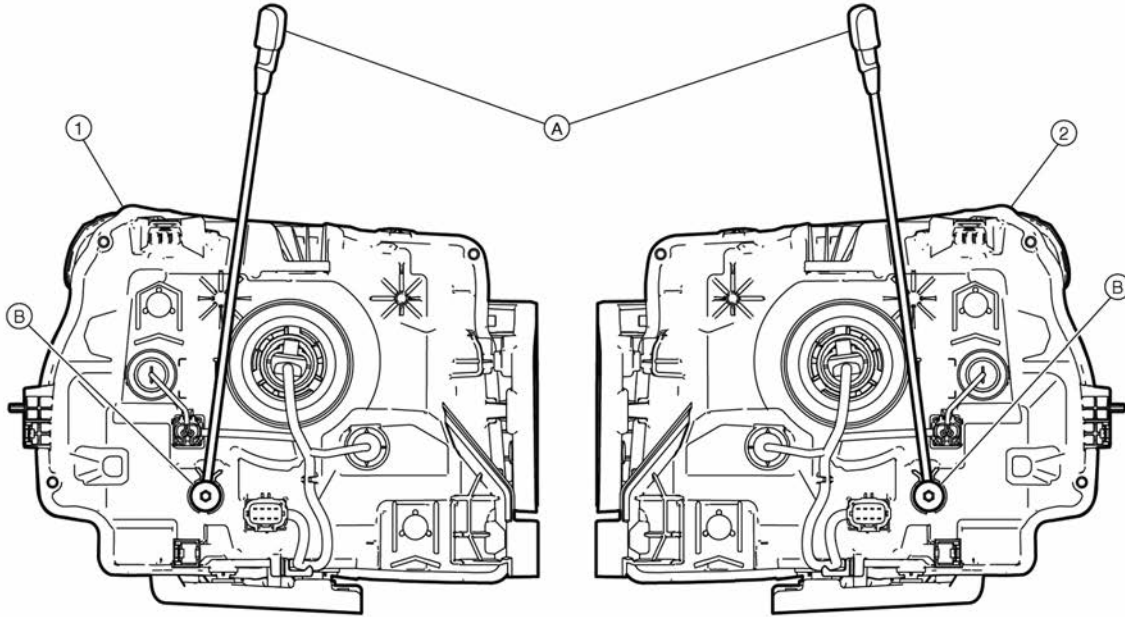
Do not use organic solvent (thinner, gasoline etc.).

- Place a driver or equivalent weight of 68.5 kg (150 lb) 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.
- Aim each headlamp individually and ensure other headlamp beam pattern is blocked from aiming surface.

NOTE:

- **For headlamp aiming details, refer to regulations in your area.**
- **By regulation, no means for horizontal aim adjustment is provided from the factory; only vertical aim is adjustable.**
- **Use adjusting screw to perform aiming adjustment.**
- **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.**
 - **The vehicle's standard load condition has been substantially increased.**

Aiming Adjustment Screw — Halogen Headlamp

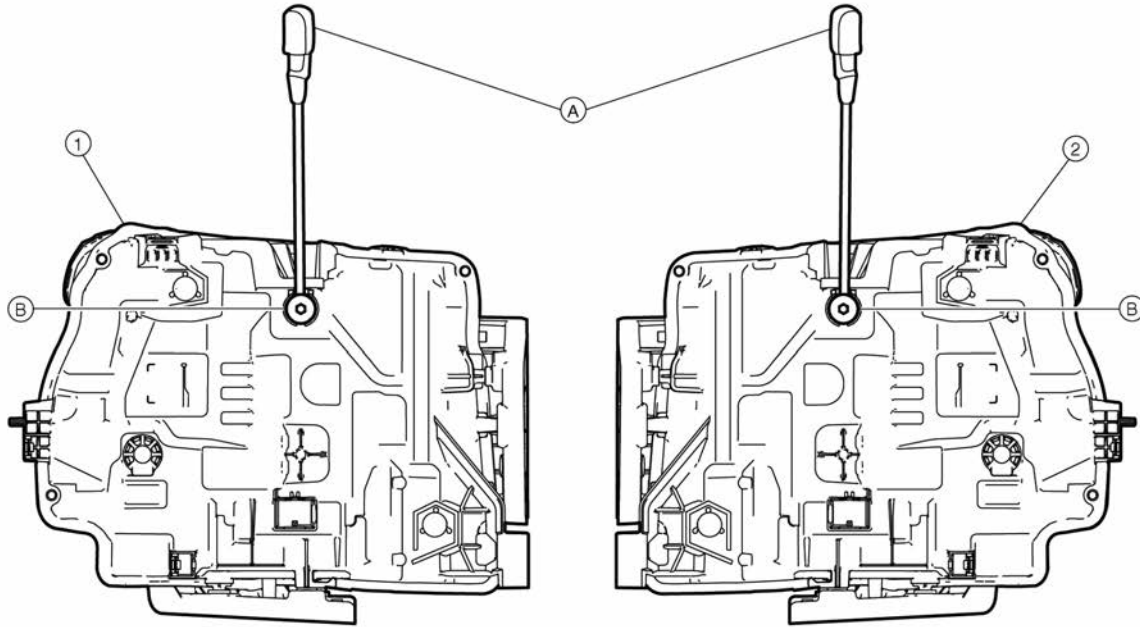


TGAZIA0330ZZ

↩: Front

1. Front combination lamp (LH) 2. Front combination lamp (RH) A. Suitable tool
B. Headlamp low beam adjustment screw

Aiming Adjustment Screw – LED Headlamp



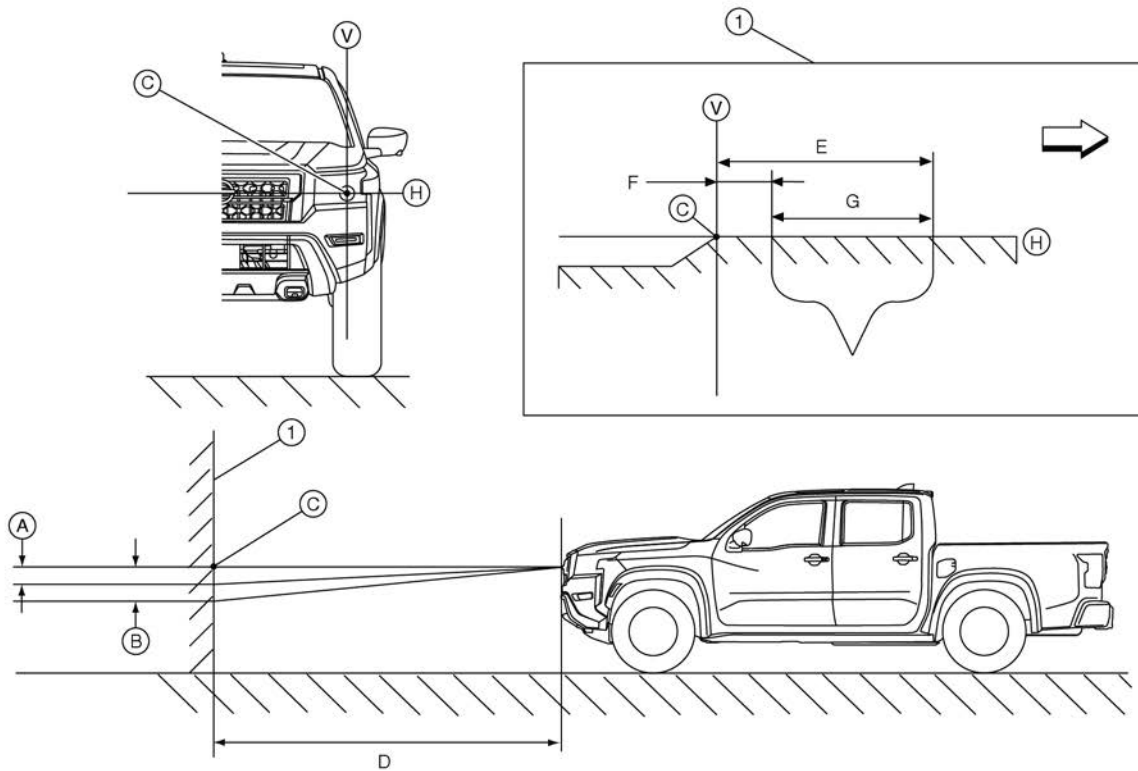
TGAAZIA0331ZZ

↩: Front

1. Front combination lamp (LH) 2. Front combination lamp (RH) A. Suitable tool
B. Headlamp low beam adjustment screw

Aiming Adjustment Procedure

Halogen Aiming Chart



TGAZIA0332ZZ

↔: Right

1. Adjustment screen

C. Headlamp bulb center
(H-V point)

F. Minimum aim evaluation
distance from vertical center
on aiming screen 133 mm
(5.2 in) 1°R

V. Vertical aiming evaluation
line

A. Highest cutoff line height
13.3 mm (0.52 in) 0.1°Up

D. Distance of headlamp
aiming screen from vehicle
7.62 m (25 ft)

G. Aim evaluation area

B. Lowest cutoff line height
53.2 mm (2.09 in) 0.4°Down

E. Maximum aim evaluation
distance from vertical center
on aiming screen 399 mm
(15.7 in) 3°R

H. Horizontal aiming evaluation
line

Low Beam**NOTE:**

Basic illuminating area for evaluation and/or adjustment should be within range shown on aiming chart.

1. Use adjustment screw to perform aiming adjustment.
 - Ensure fog lamps are turned off (if so equipped).
2. Block the opposite headlamp from projecting a beam pattern onto the adjustment screen, using a suitable object. Aim each headlamp individually.

**CAUTION:**

Do not cover the lens surface with tape, etc. as the lens is made of resin.

3. Place the screen on the same level and flat surface as the vehicle.

NOTE:

Surface should be free of any debris that would cause a difference between the headlamp center and the adjustment screen.

4. 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 (D): 7.6 m (25 ft)

5. Start the engine. Turn the headlamp on.
6. Determine the preferred vertical aim range dimensions, using the aiming chart.
7. Measure the projected beam within the aim evaluation segment on the screen.
8. 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.

FOG LAMP 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:

- Make sure all tires are inflated to correct pressure.
- Place vehicle and screen on level surface.
- Make sure there is no load in vehicle other than the driver (or equivalent weight placed in driver position).
- Coolant and engine oil filled to correct level and fuel tank full.
- Remove cargo and/or luggage to maintain an unloaded vehicle condition.
- Confirm spare tire, jack and tools are properly stowed.
- Carefully wipe off any dirt from the fog lamp lens.



CAUTION:

Do not use organic solvent (thinner, gasoline etc.).

- Place a driver or equivalent weight of 68.5 kg (150 lb) 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.
- Aim each fog lamp individually and ensure other fog lamp beam pattern is blocked from aiming surface.

NOTE:

- **For fog lamp aiming details, refer to regulations in your area.**
- **By regulation, no means for horizontal aim adjustment is provided from the factory; only vertical aim is adjustable.**
- **Perform fog lamp aiming if:**
 - **The vehicle front body has been repaired.**
 - **The front fog lamp has been removed or replaced.**
 - **Any outfitting has been installed.**
 - **The vehicle's standard load condition has been substantially increased.**

FRONT FOG LAMP AIMING

Aiming Adjustment Procedure

NOTE:

Check the following conditions before performing the aiming adjustment.

- **Keep all tires inflated to correct pressure.**
- **Place vehicle on level ground.**
- **See that vehicle is unloaded (except for full levels of coolant, engine oil and fuel, and spare tire, jack, and tools). Have driver or equivalent weight placed in driver seat.**
- **When performing adjustment, if necessary, cover the headlamps and opposite fog lamp.**

1. Place the screen.
2. Set the distance between the screen and the center of the fog lamp lens as shown.

(1) Aiming screen or a matte white surface

(2) 10 m (33 ft)

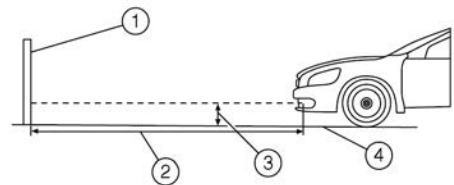
(3) Floor to center of fog lamp lens

(4) Floor

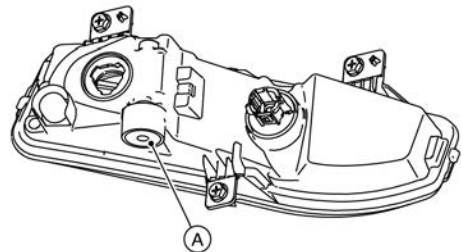
3. Turn front fog lamps ON.
4. Turn adjustment screw (A) clockwise to raise pattern and counterclockwise to lower pattern)

A. Halogen

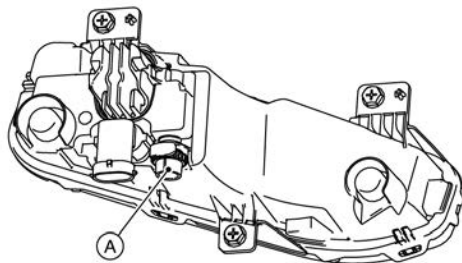
B. LED



TGAZIA0333ZZ

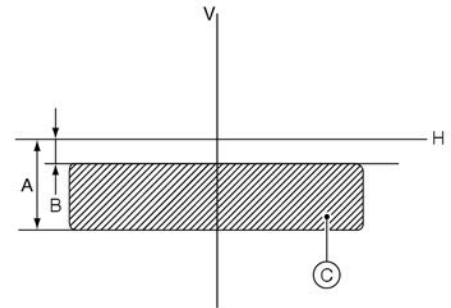


TGAZIA0334ZZ



TGAZIA0335ZZ

5. Adjust front fog lamp to specification.
 - A: 360 mm (14.2 in, 2.06 degree)
 - B: 150 mm (5.9 in, 0.86 degree)
 - C: High illuminance area
 - H: Horizontal center line of front fog lamp
 - V: Vertical center line of front fog lamp



TGAZIA0336ZZ

REGULATIONS FOR ADDING COMMUNICATION EQUIPMENT

Federal Communications Commission (FCC) Regulations:

The FCC rules and regulations are compiled in Title 47 of the Code of Federal Regulations (CFR). Subsequent amendments or additions are initially published in the Federal Register.

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.

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. If DTCs are generated, perform the appropriate diagnostic procedures and repairs. Vehicle operation (engine/transmission) may be 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 throughout this guide. Connecting to any component or wires other than those identified may adversely affect other systems and their operation.

NOTE:

Ignition switch OFF. Wait at least 2 minutes before removing the 12V battery terminal to avoid setting any DTCs.

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.
11. Failure to follow these guidelines could result in interference to factory systems such as (but not limited to) the tire pressure monitoring system (TPMS).

INVERTER SYSTEM

Description

AC 120-volt Power Outlet

The AC 120-volt outlets are for devices up to 400-watt. There are 2 operating modes for the inverter system:

1. High power mode for devices between 150-watt and 400-watt which can only be used when the vehicle is in Park (P) with the engine running.
2. Low power mode for devices less than 150-watt which can be used anytime the ignition is in the ON position.



CAUTION:

Operation of the 120-volt system with the ignition in the ON position and the engine not running (idle) will drain the battery charge. This could lead to a dead battery or no start condition.

Do not exceed maximum capacity or use adapters to connect more than one electrical accessory.

NOTE:

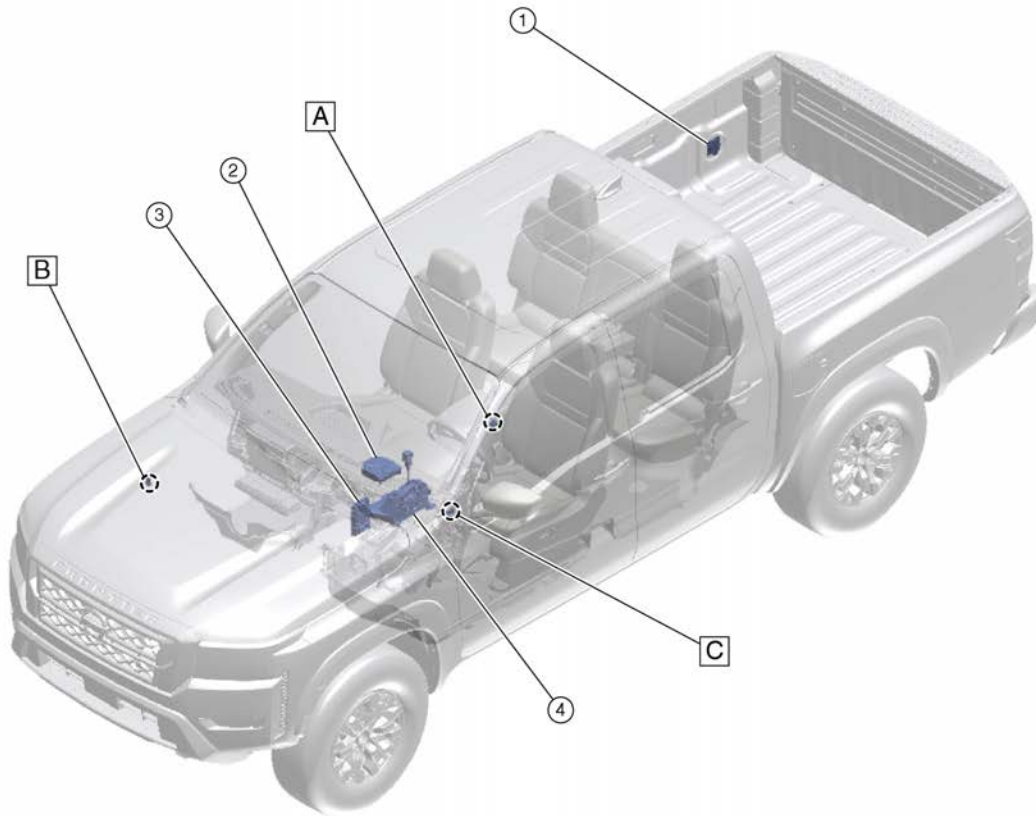
Replacement of the OEM inverter with anything other than a Genuine NISSAN specified part is not authorized.

Component Parts Location

NOTE:

Check battery orientation to identify 2023 model year early or late production, refer to [How to identify Early/Late production \(pg. 81\)](#)

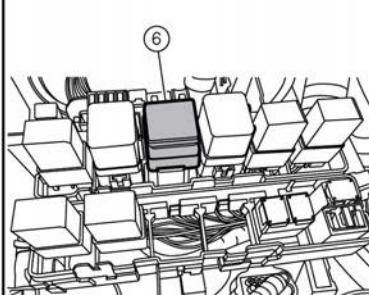
2022–2023 Early Production



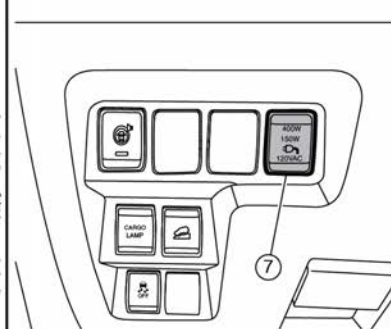
A



B



C

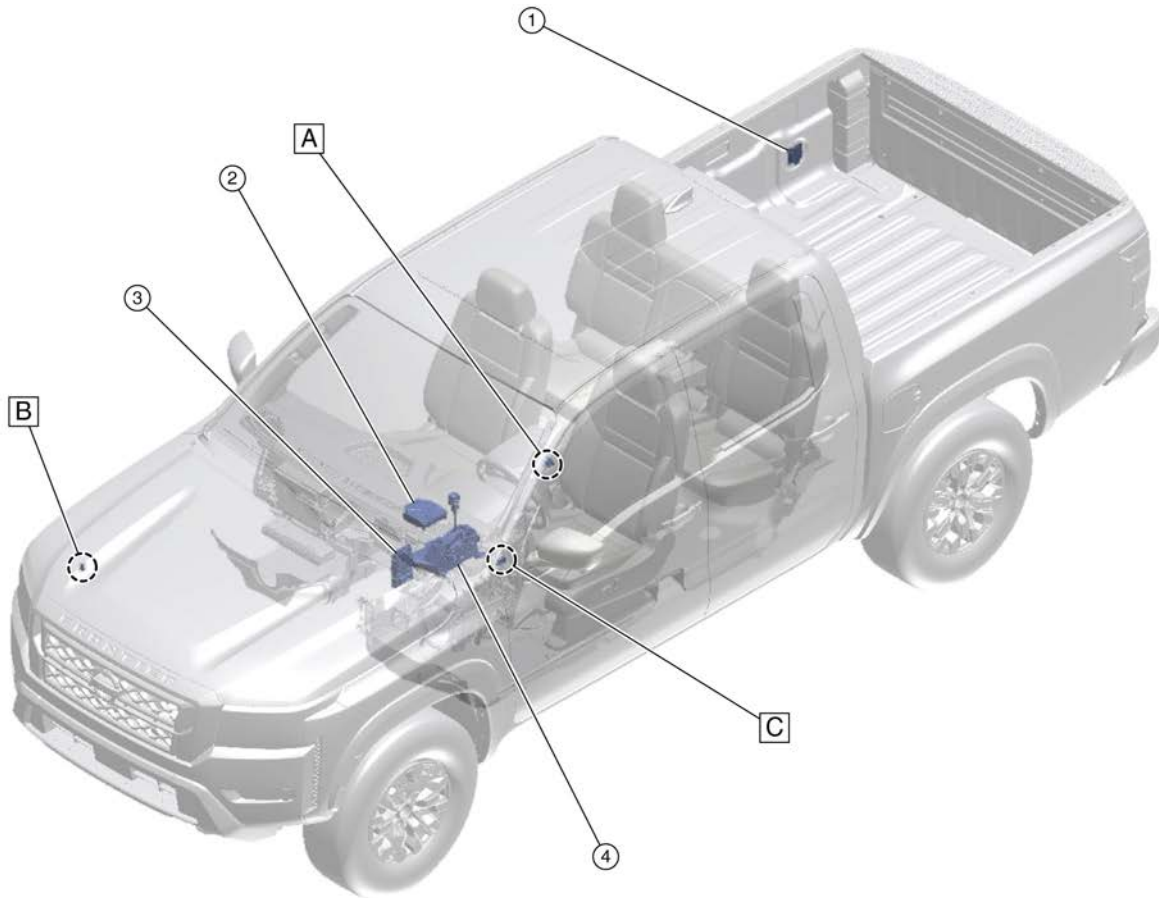
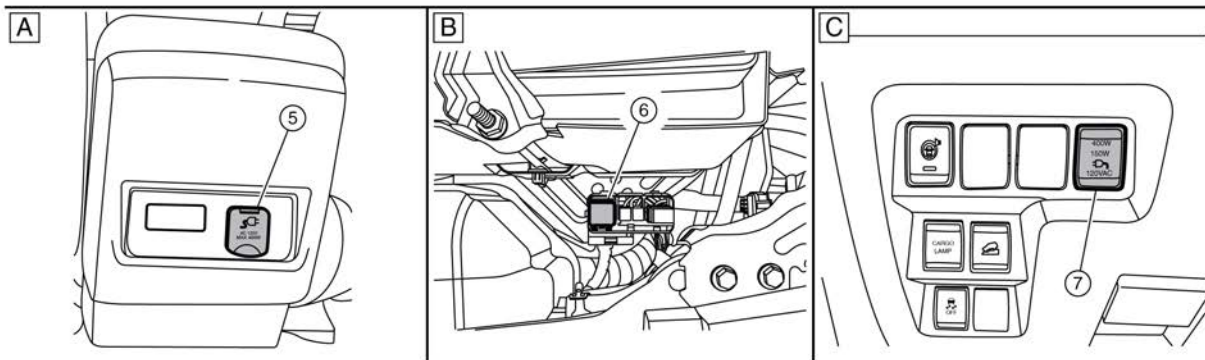


TGAZIA0279ZZ

Crew cab shown, locations same in King Cab®.

- | | | |
|---------------------------------------|---|---|
| 1. AC 120-volt outlet bed | 2. Inverter unit (crew cab shown, location same in King Cab®) | 3. BCM (Body Control Module) |
| 4. A/T shift selector (detent switch) | 5. AC 120-volt outlet cab (rear of center console) | 6. Inverter relay (view with relay box cover removed) |
| 7. AC 120-volt outlet main switch | | |

Starting with 2023 Late Production



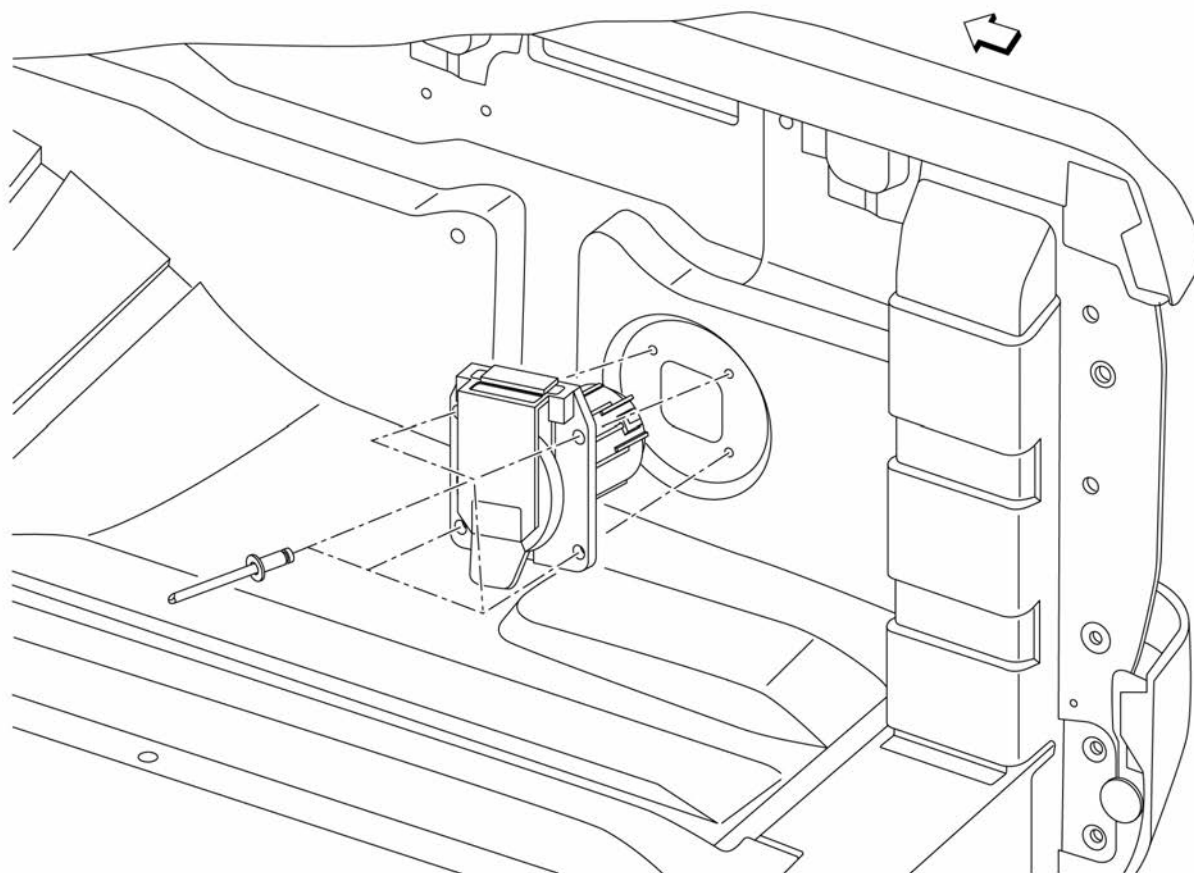
TGAZIA0378ZZ

Crew cab shown, locations same in King Cab®.

- | | | |
|---------------------------------------|---|---|
| 1. AC 120-volt outlet bed | 2. Inverter unit (crew cab shown, location same in King Cab®) | 3. BCM (Body Control Module) |
| 4. A/T shift selector (detent switch) | 5. AC 120-volt outlet cab (rear of center console) | 6. Inverter relay (view with relay box cover removed) |
| 7. AC 120-volt outlet main switch | | |

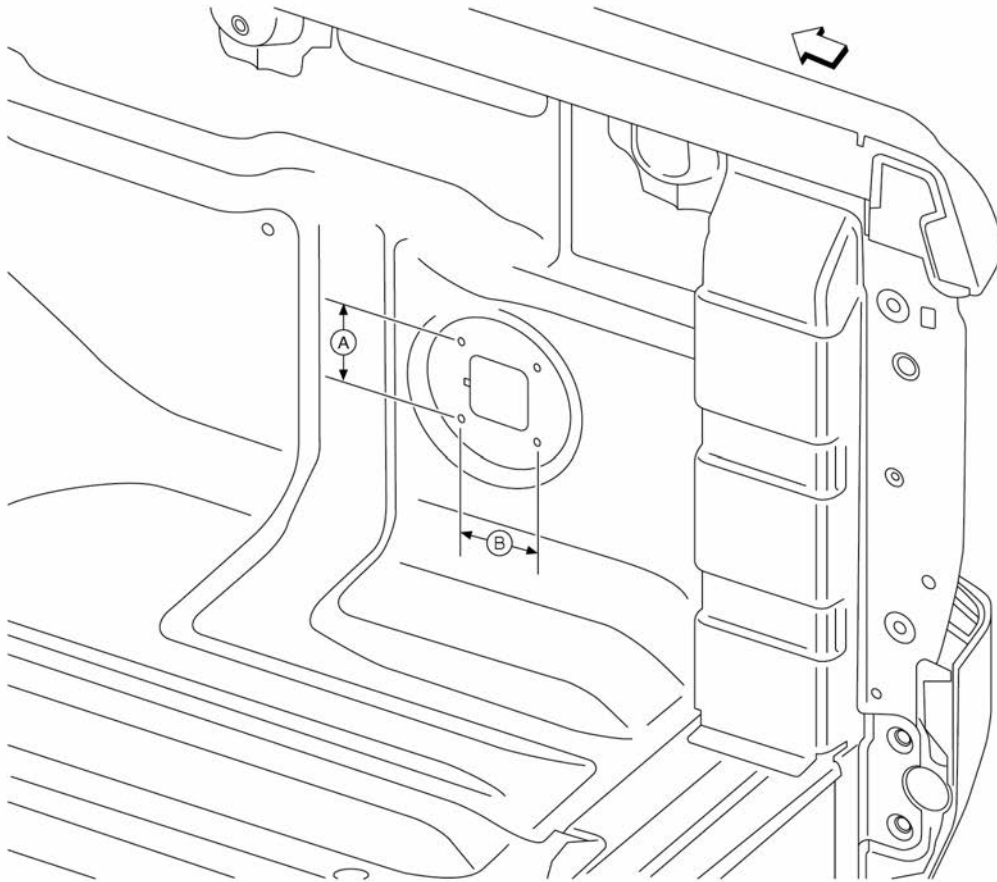
Bed Mounted AC 120-volt Power Outlet

The bed mounted AC 120-volt power outlet is located in the rear driver side of the truck bed and is secured in place with four rivets.



TGAAZIA0188ZZ

↖: Front of vehicle.



TGAAZIA0189ZZ

↖: Front of vehicle.

A: 66 mm (2.6 in)

B: 66 mm (2.6 in)

INVERTER SPECIFICATIONS

Rated voltage output		AC 120-volt (±10%)
Operating voltage range		DC 11.5-volt to 15-volt (Inverter terminal)
Rated power output	Low power mode	150-watt
	High power mode	400-watt
Output over-current protection	High power mode	3.7A or more
Input over-current protection	Low power mode	13.3A or more
Output frequency		60Hz (±10%)
Parasitic current		Less than 1 mA
Max. input current		45A (during continuous power)
Rated continuous power		400-watt @ 40°C (104°F) Maximum
Overheat protection (Thermistor)		100°C (212°F)

REMOTE KEYLESS ENTRY SYSTEM

System Description

If a key fob is lost, a new key fob can be set up. A maximum of four Intelligent Keys can be set up simultaneously.

Key fob ID Setup

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

NOTE:

All key fobs must be brought to the dealer even if only one key fob needs to be reprogrammed. Failure to do so will result in all of the pre-existing key fobs, other than the one being reprogrammed, becoming inoperative.

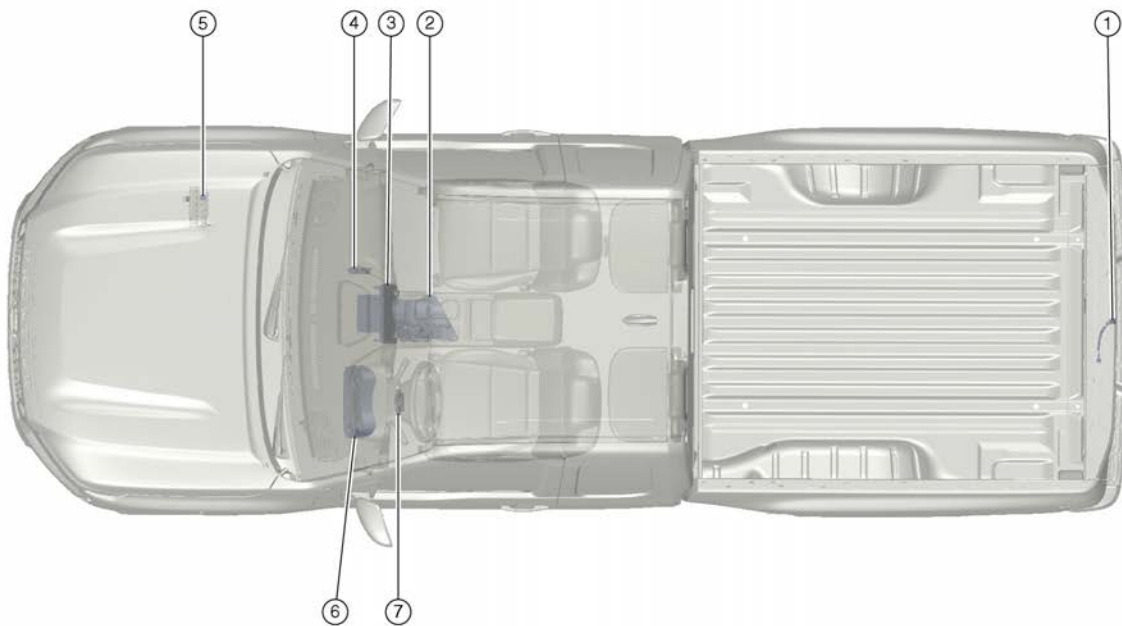
REAR VIEW MONITOR SYSTEM

Component Parts Location

NOTE:

Check battery orientation to identify 2023 model year early or late production, refer to [How to identify Early/Late production \(pg. 81\)](#)

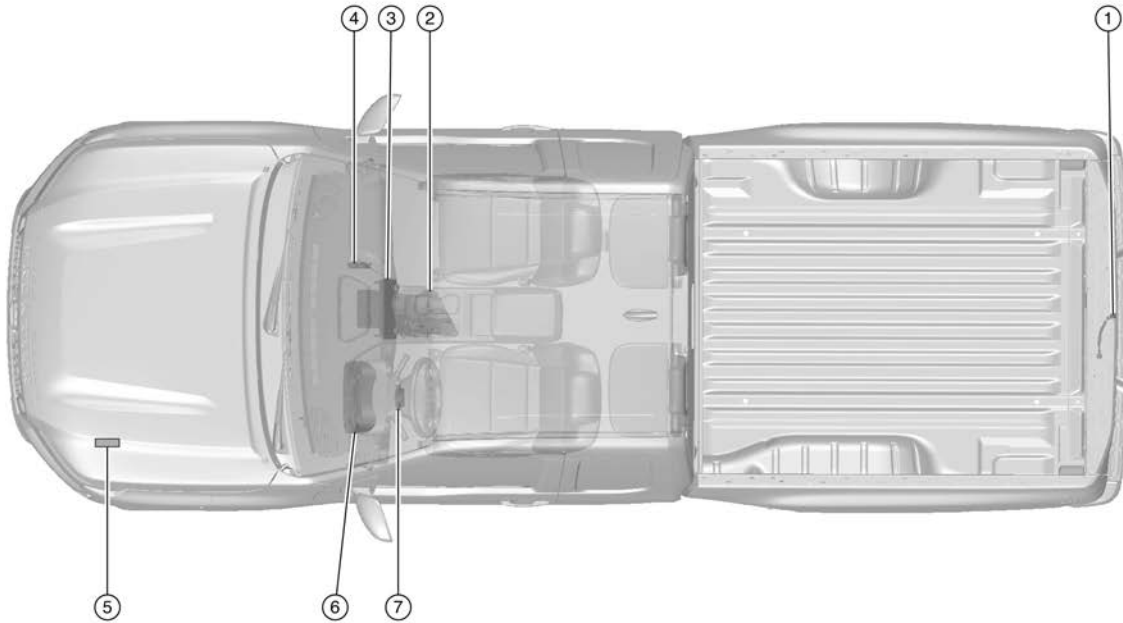
2022–2023 Early Production



TGAZIA0294ZZ

- | | | |
|--------------------------|------------------------|-----------------------|
| 1. Rear view camera | 2. A/T shift selector | 3. AV control unit |
| 4. Sonar control unit | 5. Back-up lamps relay | 6. Instrument cluster |
| 7. Steering angle sensor | | |

Starting with 2023 Late Production



TGAAZIA0395ZZ

- | | | |
|--------------------------|------------------------|-----------------------|
| 1. Rear view camera | 2. A/T shift selector | 3. AV control unit |
| 4. Sonar control unit | 5. Back-up lamps relay | 6. Instrument cluster |
| 7. Steering angle sensor | | |



WARNING:

A change in the vehicle's ride height can affect the rear view monitor system resulting in improper or inaccurate operation.

NOTE:

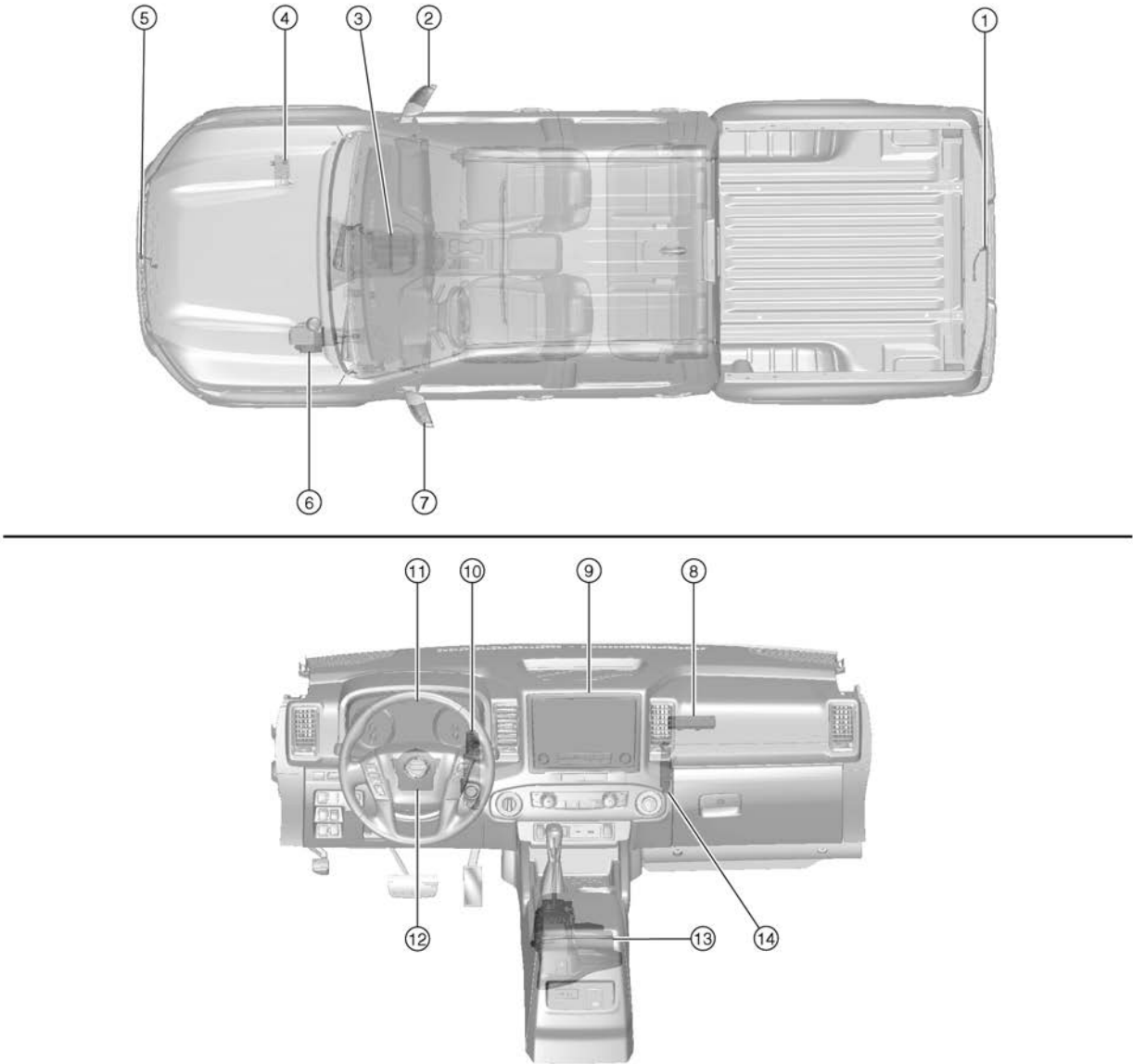
If any rear view monitor system related component is removed and/or relocated it must be recalibrated. It is recommended you visit a NISSAN dealer for this service.

AROUND VIEW® MONITOR SYSTEM – CREW CAB

Component Parts Location

NOTE:
Check battery orientation to identify 2023 model year early or late production, refer to [How to identify Early/Late production \(pg. 81\)](#)

2022–2023 Early Production

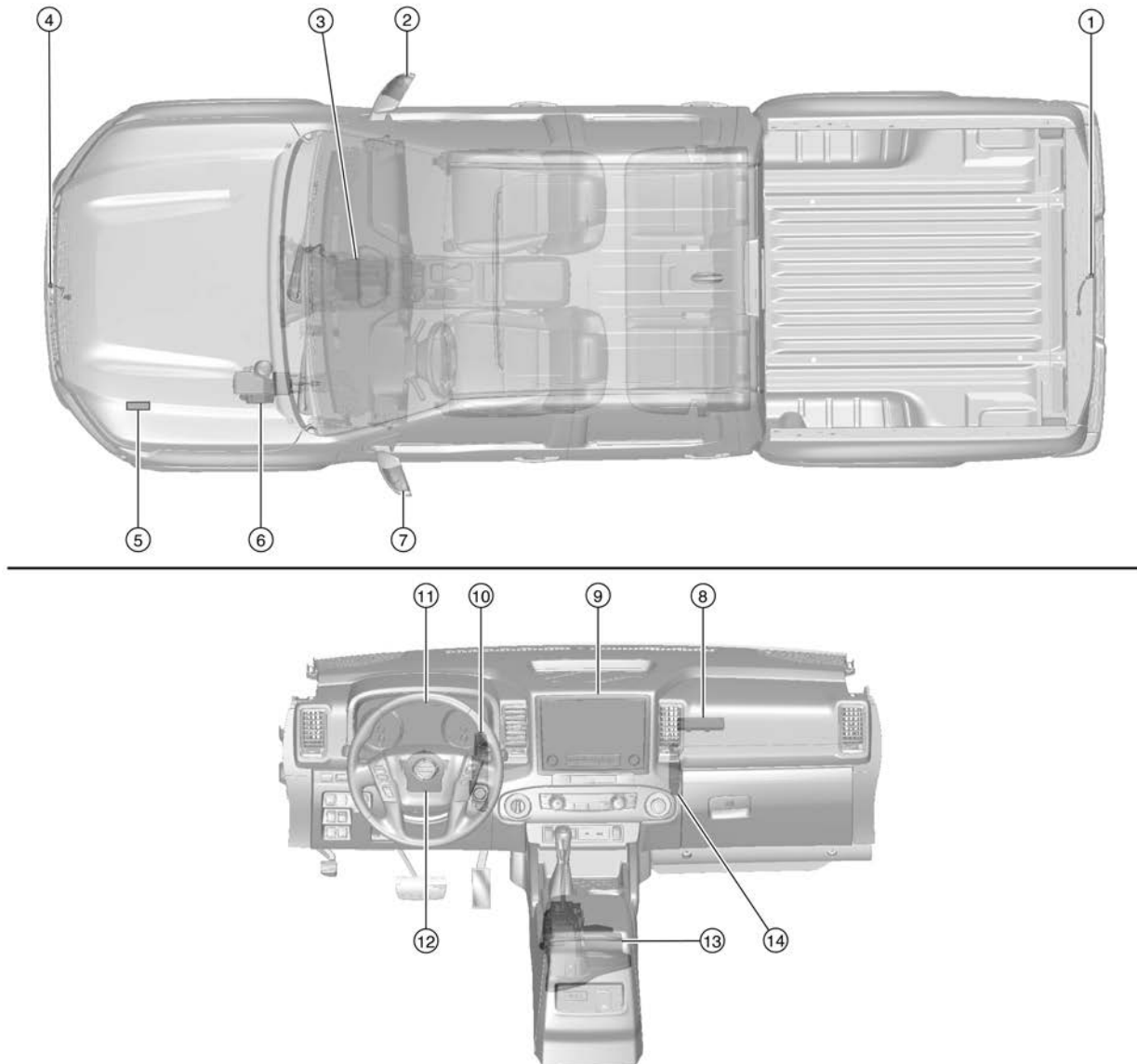


TGAAZIA0295ZZ

- | | | |
|------------------------|---------------------------------|---|
| 1. Rear camera | 2. Door mirror RH (side camera) | 3. A/T assembly [TCM (Transmission Control Module)] |
| 4. Back-up lamps relay | 5. Front camera | 6. ABS (Anti-lock Braking System) actuator and electric unit (control unit) |

- | | | |
|---------------------------------|-------------------------------------|---------------------------|
| 7. Door mirror LH (side camera) | 8. Around view monitor control unit | 9. AV control unit |
| 10. BCM (Body Control Module) | 11. Instrument cluster | 12. Steering angle sensor |
| 13. A/T shift selector | 14. Sonar control unit | |

Starting with 2023 Late Production



TGAZIA0396ZZ

- | | | |
|---------------------------------|-------------------------------------|---|
| 1. Rear camera | 2. Door mirror RH (side camera) | 3. A/T assembly [TCM (Transmission Control Module)] |
| 4. Front camera | 5. Back-up lamps relay | 6. ABS (Anti-lock Braking System) actuator and electric unit (control unit) |
| 7. Door mirror LH (side camera) | 8. Around view monitor control unit | 9. AV control unit |
| 10. BCM (Body Control Module) | 11. Instrument cluster | 12. Steering angle sensor |
| 13. A/T shift selector | 14. Sonar control unit | |

**WARNING:**

A change in the vehicle's ride height can affect the Around View® Monitor System resulting in improper or inaccurate operation.

NOTE:

If any Around View® Monitor System related component is removed and/or relocated it must be recalibrated. It is recommended you visit a NISSAN dealer for this service.

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.



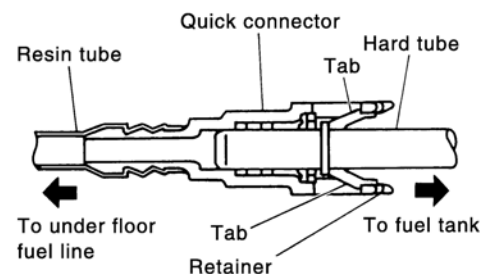
WARNING:

- 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 \(pg. 338\)](#) 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:
 - Ignition switch ON to apply fuel pressure to the fuel lines (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

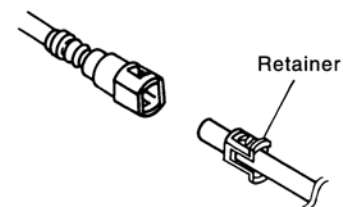
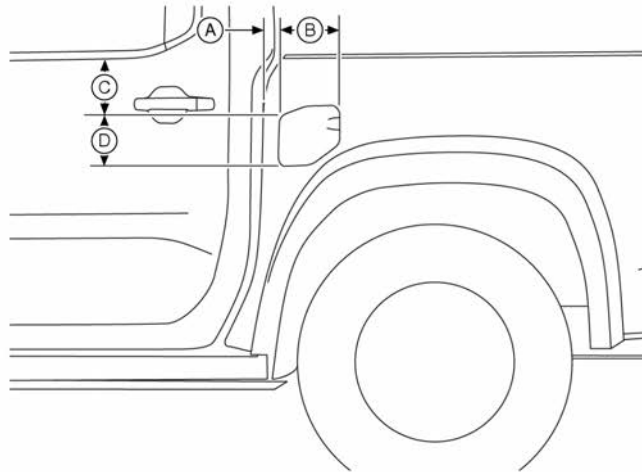


Diagram of the fuse block and engine compartment. The fuse block diagram shows various fuses labeled with their ratings and functions. An arrow points from the fuse block to the engine compartment diagram, indicating the location of the fuse block.

FUSE	RATING	FUNCTION
1	15A	FUEL PUMP
2	15A	IGNITION
3	15A	IGNITION
4	15A	IGNITION
5	15A	IGNITION
6	15A	IGNITION
7	15A	IGNITION
8	15A	IGNITION
9	15A	IGNITION
10	15A	IGNITION
11	15A	IGNITION
12	15A	IGNITION
13	15A	IGNITION
14	15A	IGNITION
15	15A	IGNITION
16	15A	IGNITION
17	15A	IGNITION
18	15A	IGNITION
19	15A	IGNITION
20	15A	IGNITION
21	15A	IGNITION
22	15A	IGNITION
23	15A	IGNITION
24	15A	IGNITION
25	15A	IGNITION
26	15A	IGNITION
27	15A	IGNITION
28	15A	IGNITION
29	15A	IGNITION
30	15A	IGNITION
31	15A	IGNITION
32	15A	IGNITION
33	15A	IGNITION
34	15A	IGNITION
35	15A	IGNITION
36	15A	IGNITION
37	15A	IGNITION
38	15A	IGNITION
39	15A	IGNITION
40	15A	IGNITION
41	15A	IGNITION
42	15A	IGNITION
43	15A	IGNITION
44	15A	IGNITION
45	15A	IGNITION
46	15A	IGNITION
47	15A	IGNITION
48	15A	IGNITION
49	15A	IGNITION
50	15A	IGNITION
51	15A	IGNITION
52	15A	IGNITION
53	15A	IGNITION
54	15A	IGNITION
55	15A	IGNITION
56	15A	IGNITION
57	15A	IGNITION
58	15A	IGNITION
59	15A	IGNITION
60	15A	IGNITION
61	15A	IGNITION
62	15A	IGNITION
63	15A	IGNITION
64	15A	IGNITION
65	15A	IGNITION
66	15A	IGNITION
67	15A	IGNITION
68	15A	IGNITION
69	15A	IGNITION
70	15A	IGNITION
71	15A	IGNITION
72	15A	IGNITION
73	15A	IGNITION
74	15A	IGNITION
75	15A	IGNITION
76	15A	IGNITION
77	15A	IGNITION
78	15A	IGNITION
79	15A	IGNITION
80	15A	IGNITION
81	15A	IGNITION
82	15A	IGNITION
83	15A	IGNITION
84	15A	IGNITION
85	15A	IGNITION
86	15A	IGNITION
87	15A	IGNITION
88	15A	IGNITION
89	15A	IGNITION
90	15A	IGNITION
91	15A	IGNITION
92	15A	IGNITION
93	15A	IGNITION
94	15A	IGNITION
95	15A	IGNITION
96	15A	IGNITION
97	15A	IGNITION
98	15A	IGNITION
99	15A	IGNITION
100	15A	IGNITION

FILLER NECK AREAS

Crew Cab Standard Wheelbase



TGAZIA0191ZZ

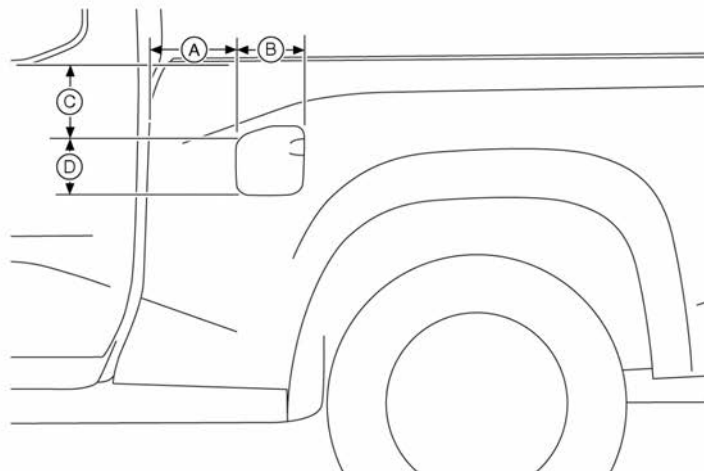
A. 30.5 mm (1.2 in)

B. 185.4 mm (7.3 in)

C. 164.0 mm (6.5 in)

D. 144.8 mm (5.7 in)

King Cab® /Crew Cab Long Wheelbase



TGAZIA0192ZZ

A. 228.6 mm (9.0 in)

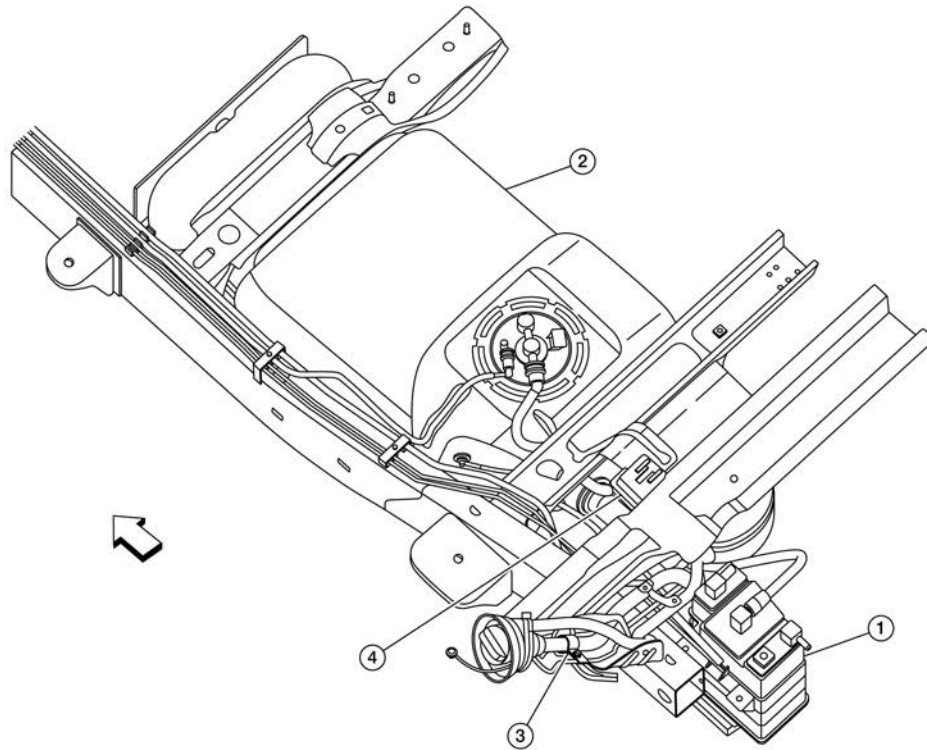
B. 185.4 mm (7.3 in)

C. 186.1 mm (7.3 in)

D. 152.4 mm (6.0 in)

Fuel Filler Pipe Location

Crew Cab



TGAAZIA0194ZZ

↖: Front of vehicle.

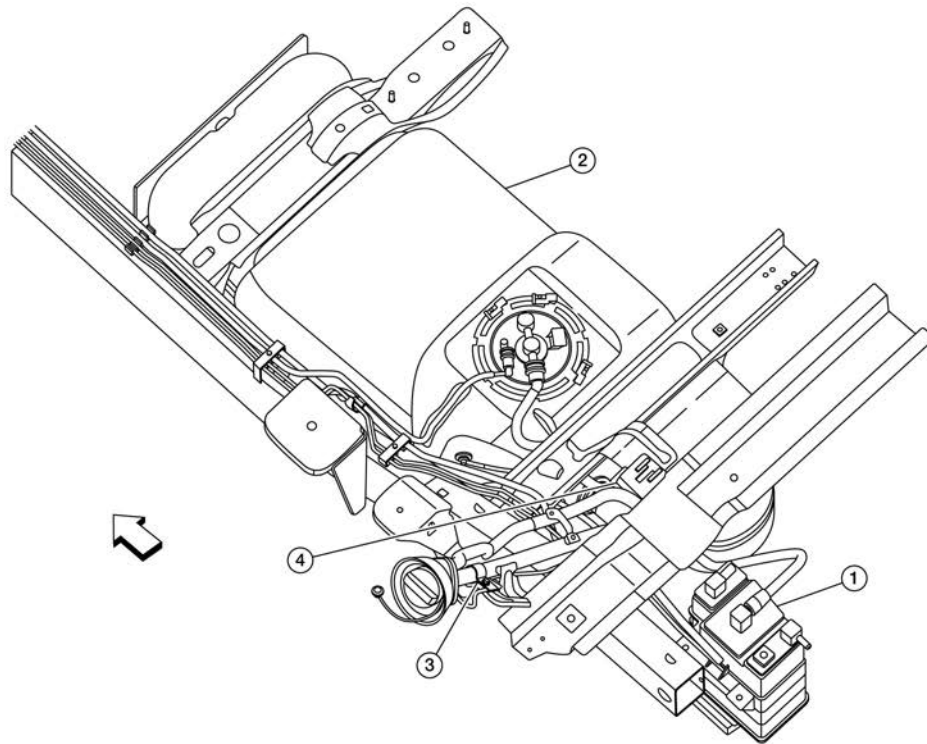
1. EVAP canister

2. Fuel tank

3. Fuel filler tube

4. EVAP filter

King Cab® /Crew Cab (Long Wheelbase)



TGAZIA0195ZZ

↖: Front of vehicle.

1. EVAP canister

2. Fuel tank

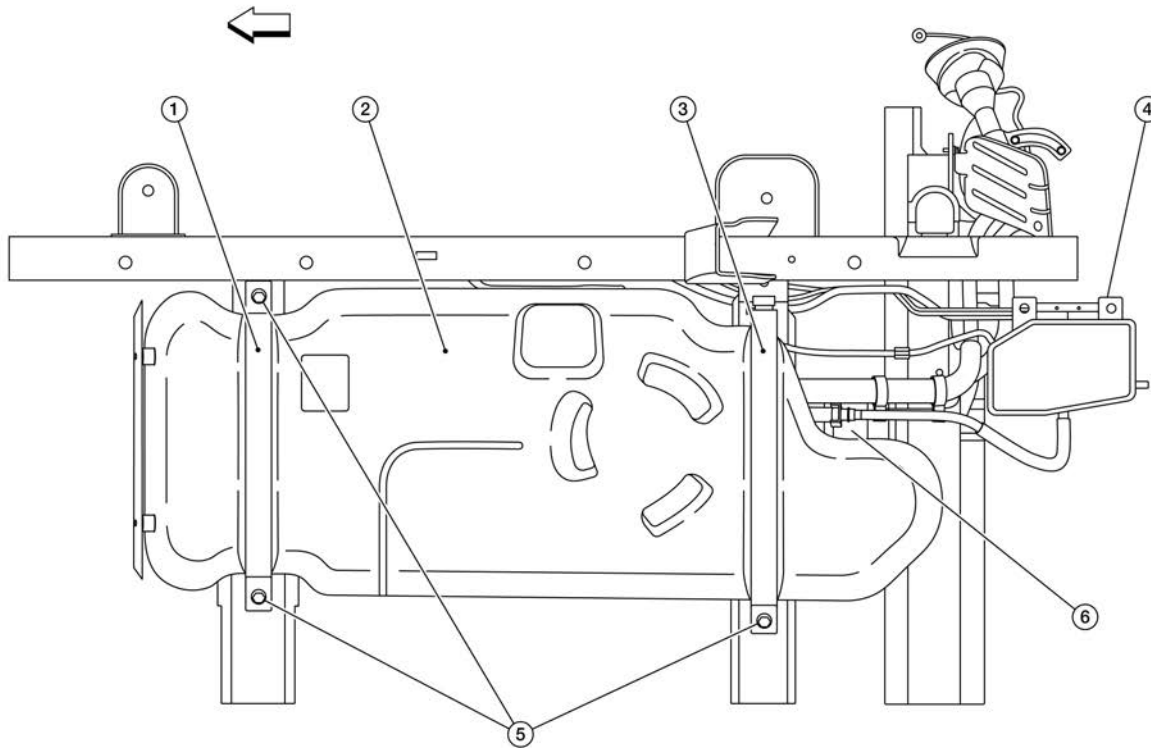
3. Fuel filler tube

4. EVAP filter

TANK LOCATION

Tank Mounting

Crew Cab



TGAAZIA0196ZZ

↩: Front of vehicle.

1. Front tank strap

2. Fuel tank

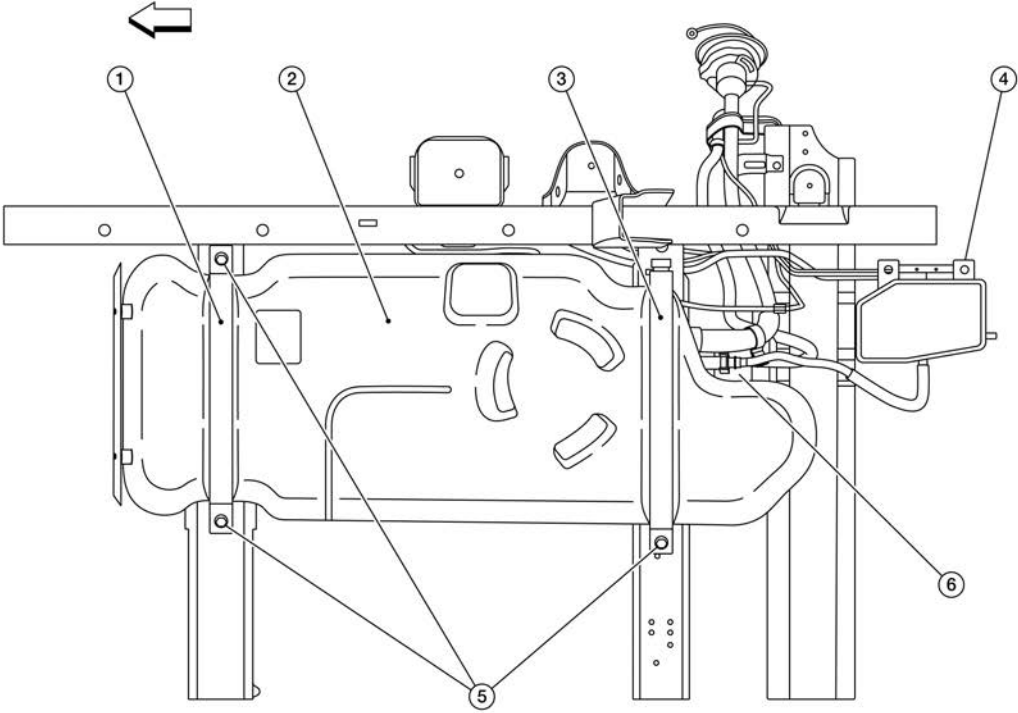
3. Rear tank strap

4. EVAP canister

5. Fuel tank strap bolts

6. EVAP filter

King Cab® /Crew Cab (Long Wheelbase)



TGAAZIA0197ZZ

↖: Front of vehicle.

- 1. Front tank strap
- 4. EVAP canister

- 2. Fuel tank
- 5. Fuel tank strap bolts

- 3. Rear tank strap
- 6. EVAP filter

Drilling Precaution Area

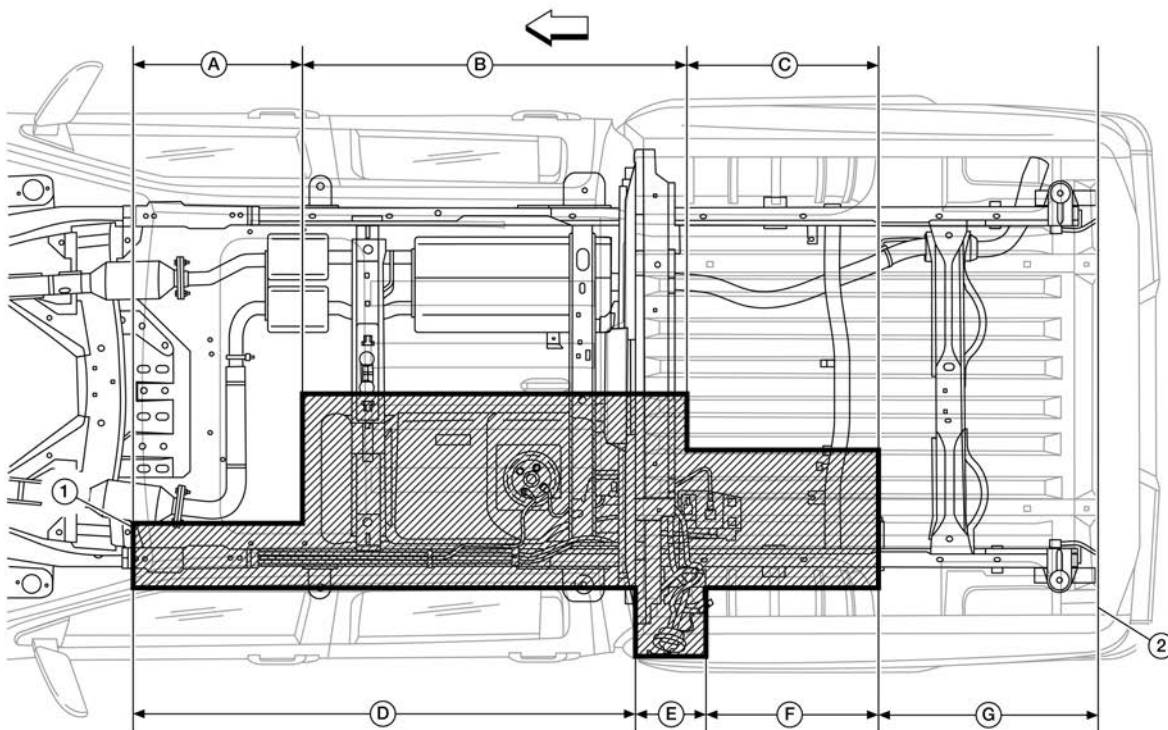
**WARNING:**

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

**WARNING:**

To avoid risk of death or injury caused by vehicle modifications, check for proper clearance between existing components or newly installed components.

Crew Cab Standard Wheelbase



TGAAZIA0198ZZ

↔: Front of vehicle.

1. Fuel tank drill precaution zone

A. 685.8 mm (27.0 in)

D. 1,701.8 mm (67.0 in)

G. 647.7 mm (25.5 in)

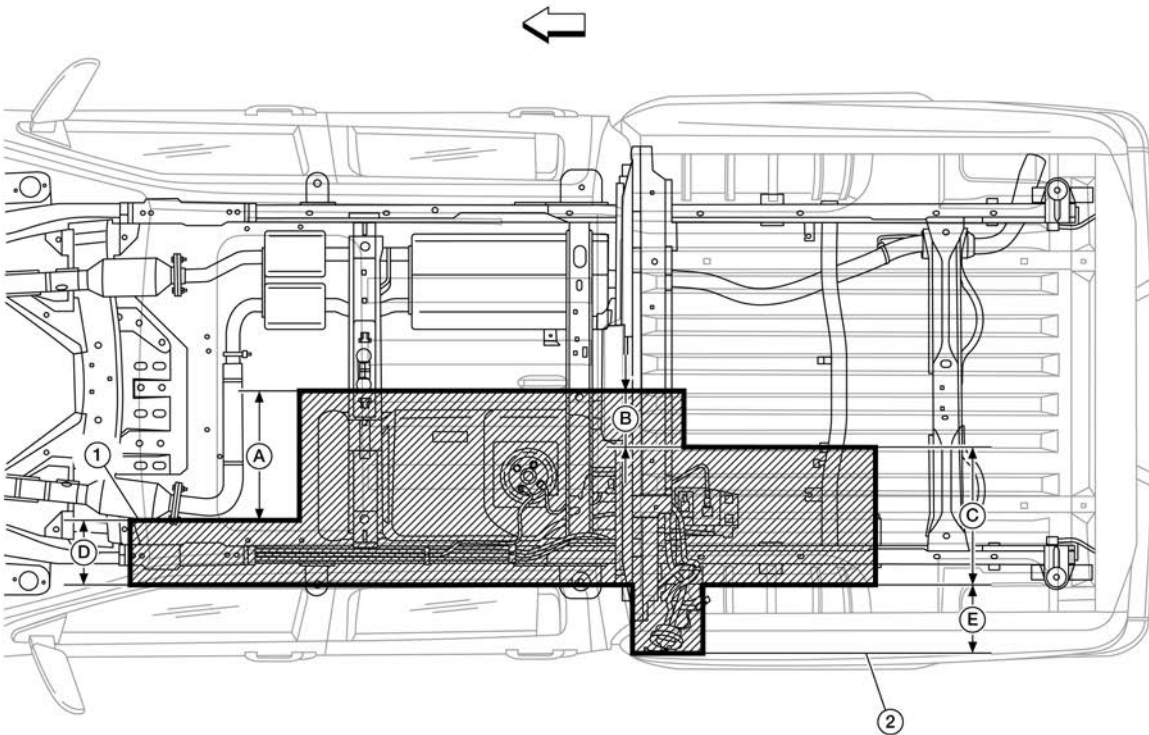
2. Tailgate inner sheet metal (reference line)

B. 1,219.2 mm (48.0 in)

E. 304.9 mm (12.0 in)

C. 660.4 mm (26.0 in)

F. 558.7 mm (22.0 in)



TGAAZIA0199ZZ

↖: Front of vehicle.

1. Fuel tank drill precaution zone

A. 444.5 mm (17.5 in)

D. 165.0 mm (6.5 in)

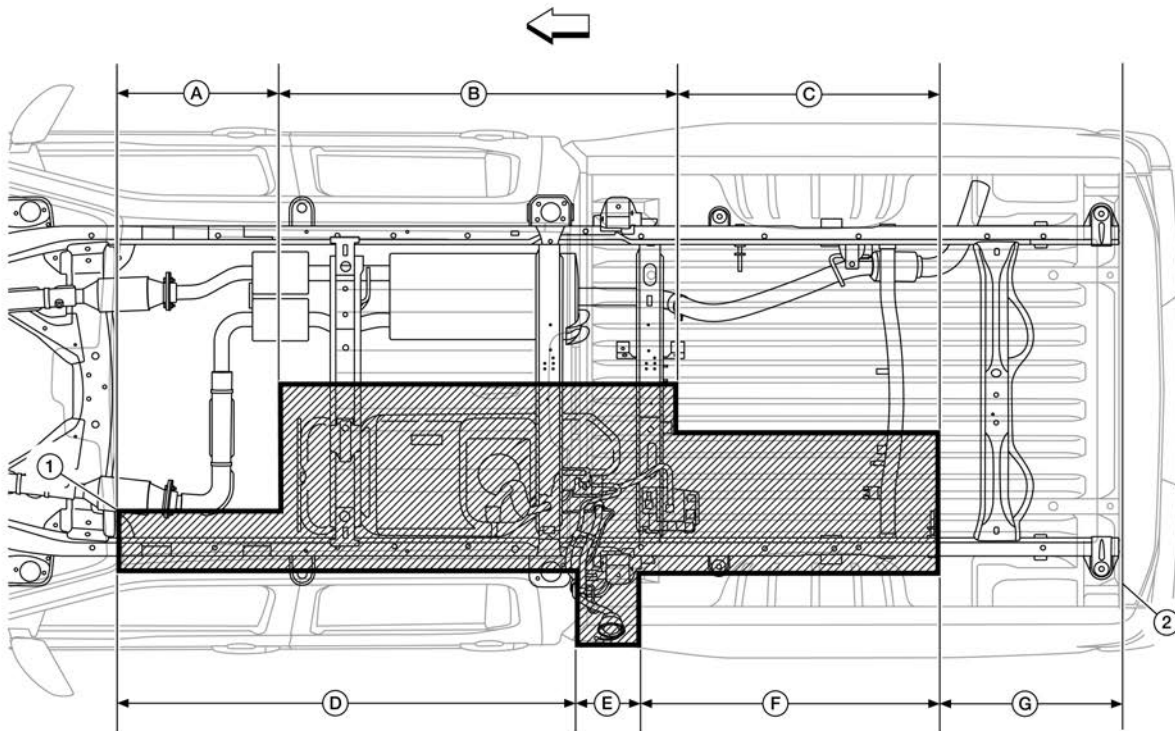
2. Bed side outer sheet metal (reference line)

B. 190.5 mm (7.5 in)

E. 279.5 mm (11.0 in)

C. 482.6 mm (19.0 in)

Crew Cab Long Wheelbase



TGAAZIA0202ZZ

↩: Front of vehicle.

1. Fuel tank drill precaution zone

A. 685.8 mm (27.0 in)

D. 1,701.8 mm (67.0 in)

G. 645.0 mm (25.4 in)

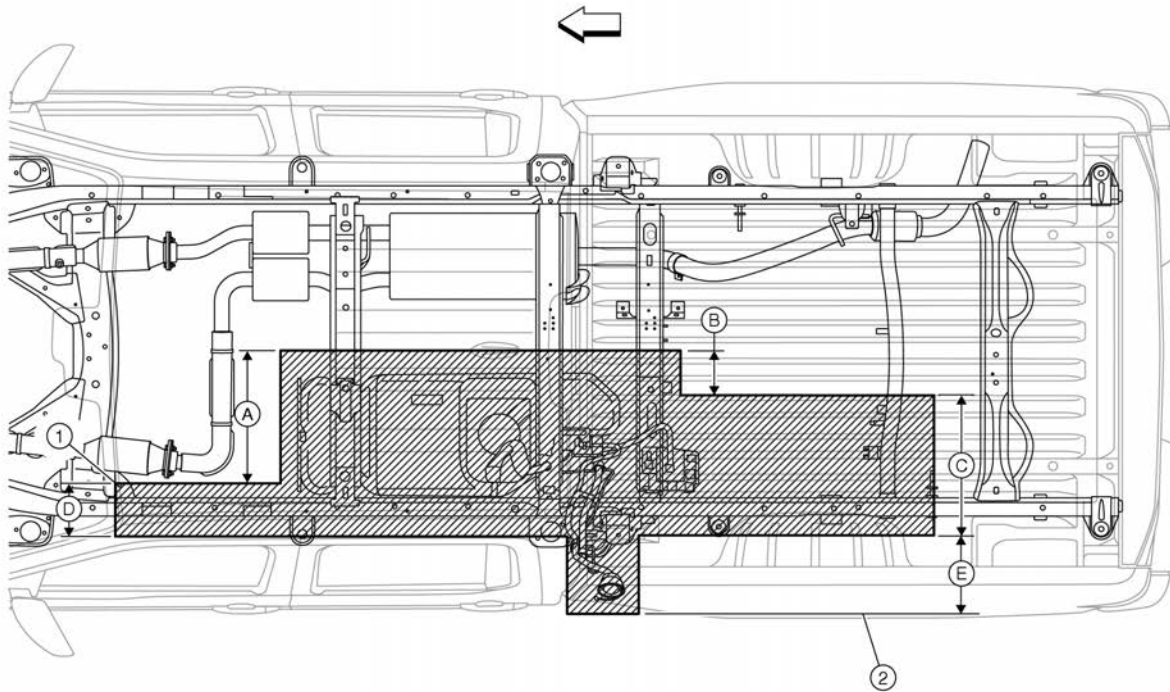
2. Tailgate inner sheet metal (reference line)

B. 1,219.2 mm (48.0 in)

E. 304.9 mm (12.0 in)

C. 660.4 mm (26.0 in)

F. 558.7 mm (22.0 in)



TGAAZIA0203ZZ

↖: Front of vehicle.

1. Fuel tank drill precaution zone

A. 444.5 mm (17.5 in)

D. 165.0 mm (6.5 in)

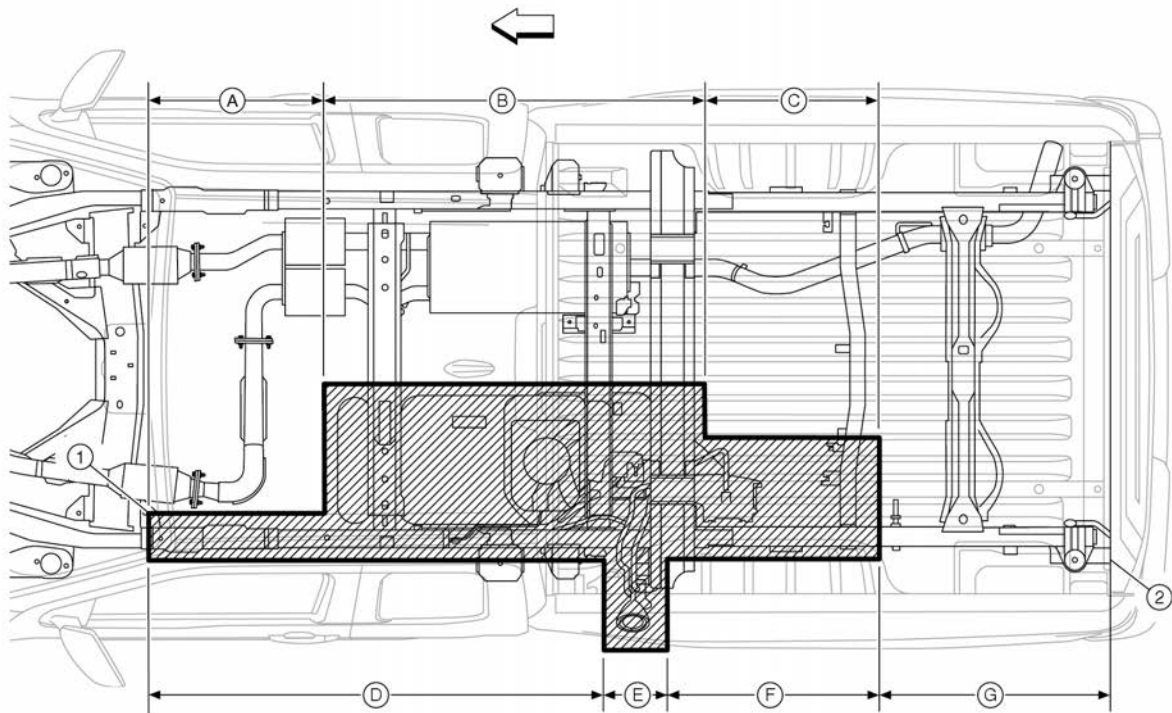
2. Bed side outer sheet metal (reference line)

B. 190.5 mm (7.5 in)

E. 279.5 mm (11.0 in)

C. 482.6 mm (19.0 in)

King Cab®



TGAAZIA0200ZZ

↖: Front of vehicle.

1. Fuel tank drill precaution zone

A. 685.8 mm (27.0 in)

D. 1,701.8 mm (67.0 in)

G. 645.0 mm (25.4 in)

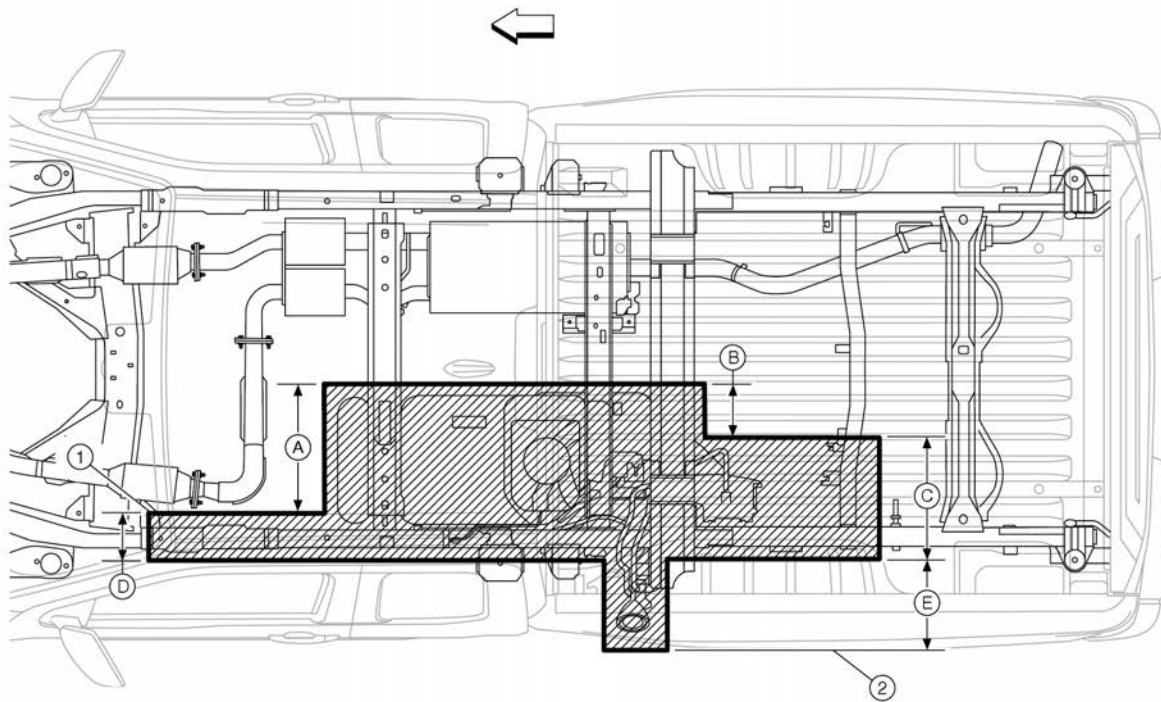
2. Tailgate inner sheet metal (reference line)

B. 1,219.2 mm (48.0 in)

E. 304.9 mm (12.0 in)

C. 660.4 mm (26.0 in)

F. 558.7 mm (22.0 in)



TGAAZIA0201ZZ

↖: Front of vehicle.

1. Fuel tank drill precaution zone

A. 444.5 mm (17.5 in)

D. 165.0 mm (6.5 in)

2. Bed side outer sheet metal (reference line)

B. 190.5 mm (7.5 in)

E. 279.5 mm (11.0 in)

C. 482.6 mm (19.0 in)

TRAILER TOW

WIRING

Trailer Wiring

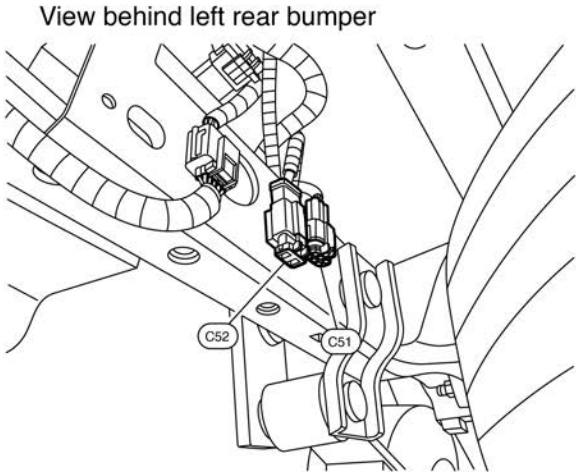
The optional factory-installed trailer tow package includes the necessary wiring, relays, and both a 4-pin and 7-pin connector (mounted on the rear bumper). The vehicle-side connector will accommodate any standard 7-pin connector plug from your trailer.

NOTE:

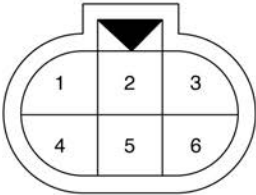
If your vehicle was not equipped with the factory-installed trailer tow package, it is pre-wired to support a Genuine NISSAN accessory trailer wiring kit. To help ensure proper operation, Nissan recommends that only the Genuine NISSAN trailer wiring kit be used. Please contact your Authorized NISSAN Dealer for details. The accessory trailer wiring kit connects to the vehicle harness connector located behind the rear bumper. Refer to the following illustration.

TCAAZIA0058CB

TRAILER CONNECTOR PRE-WIRING

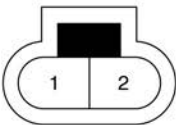


Connector No.	C51
Connector Name	WIRE TO WIRE
Connector Color	Gray



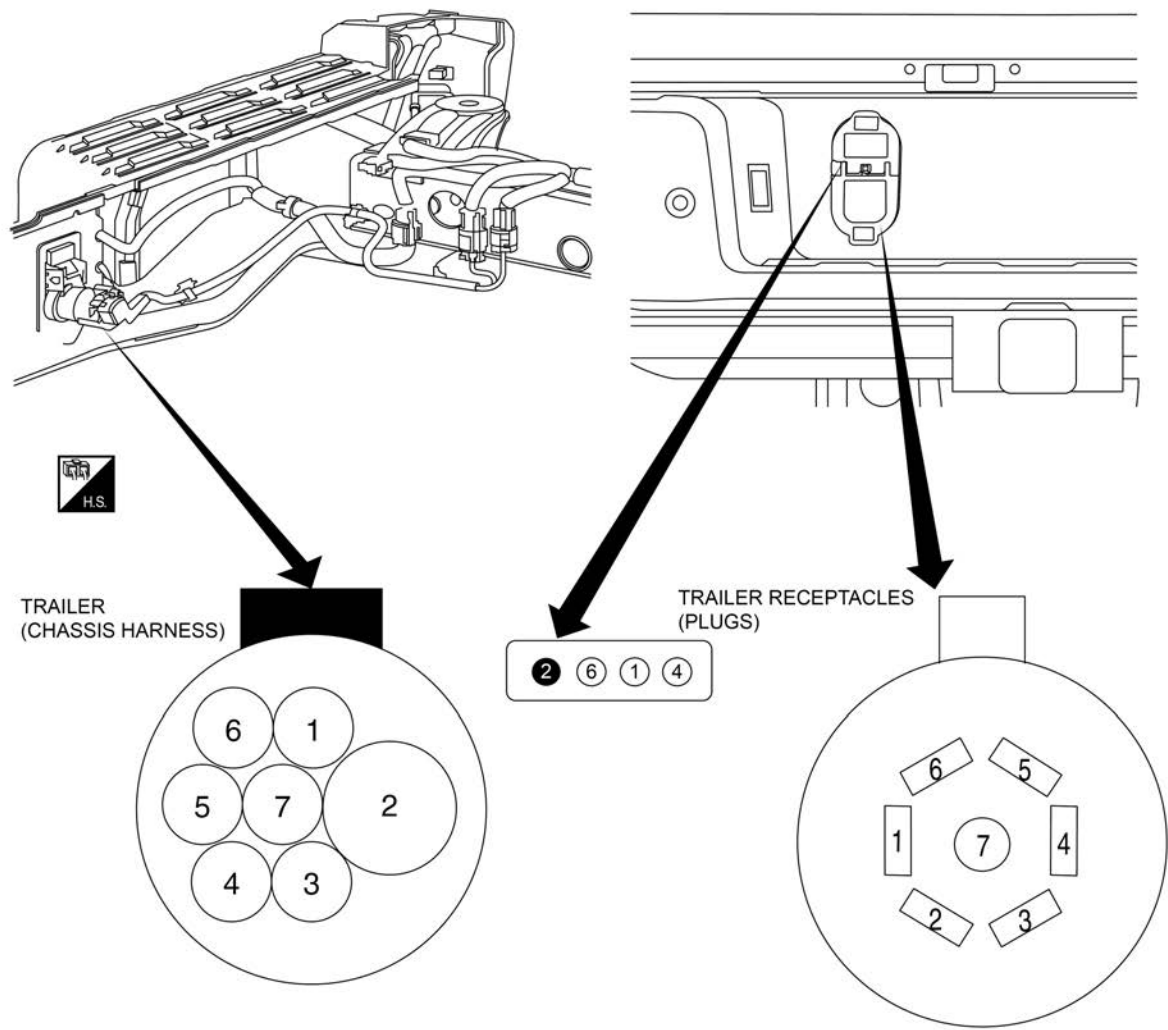
CAUTION:	Terminal No.	Color of Wire	Signal Name	Wire Gauge	Maximum Load
	1	Green	Ground	12	—
	2	Blue	Stop/Turn RH	20	6A
	3	Violet	Stop/Turn LH	20	6A
	4	Not used.			
	5	Yellow	Back-up lamps	24	8A
	6	Red	Running lamps	24	8A

Connector No.	C52
Connector Name	WIRE TO WIRE
Connector Color	Black



CAUTION:	Terminal No.	Color of Wire	Signal Name	Wire Gauge	Maximum Load
	1	Red	Electric Brake	12	24A
	2	Yellow	Ignition	12	24A

Trailer Connector



<div> CAUTION:</div> <div>Do not allow total load across these circuits to exceed the maximum load for the ground circuit. Doing so may result in vehicle damage.</div>	Terminal No.	Vehicle Harness Color of Wire	Signal Name	Wire Gauge	Maximum Load
	1	Violet	Stop/turn LH	20	6A
	2	Black	Ground	12	—
	3	Red	Electric brake	12	24A
	4	Green	Stop/turn RH	20	6A
	5	Blue	Ignition	12	24A
	6	Brown	Running lamps	24	8A
	7	White	Back-up lamps	24	8A

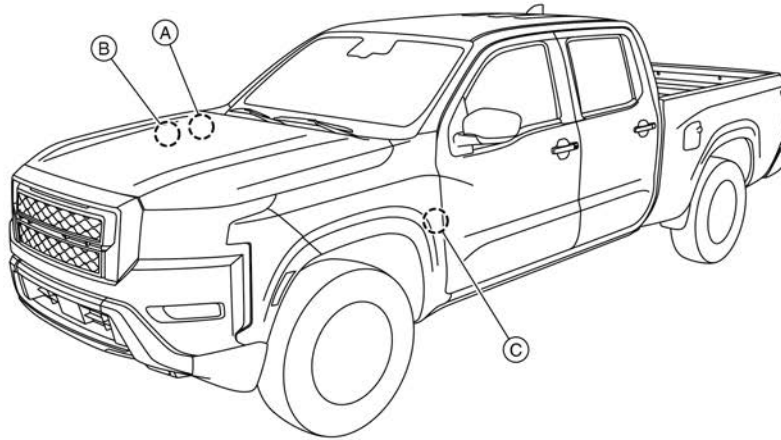
TGAAZIA0059GB

Trailer Tow Component Locations

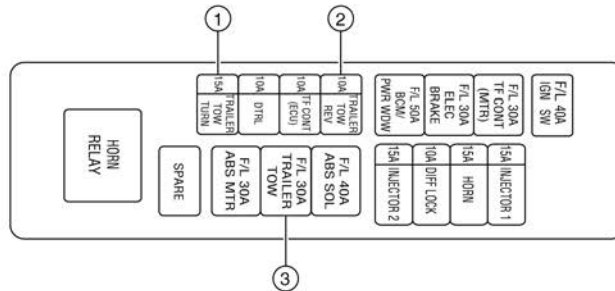
NOTE:

Check battery orientation to identify 2023 model year early or late production, refer to [How to identify Early/Late production \(pg. 81\)](#)

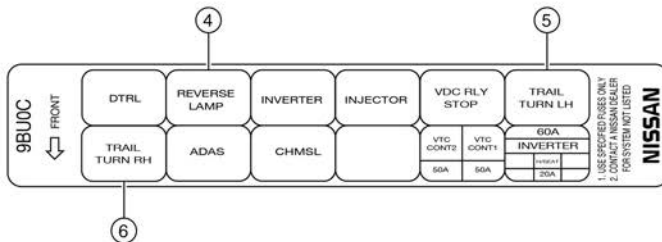
2022–2023 Early Production



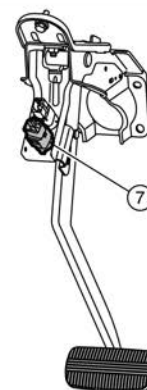
A



B



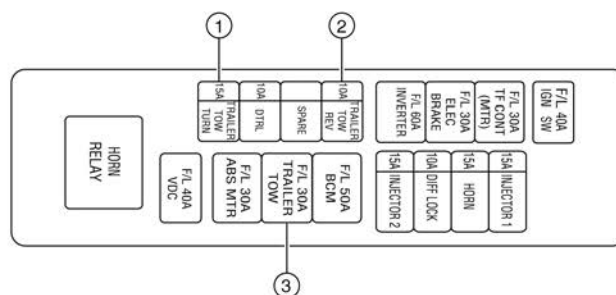
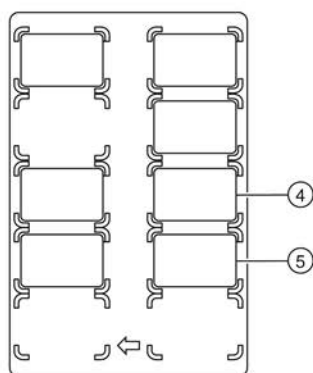
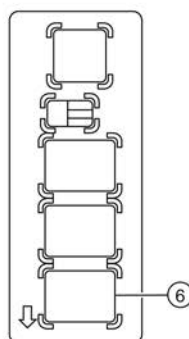
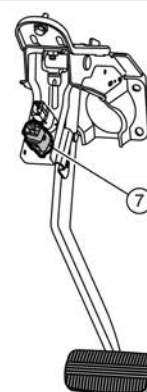
C



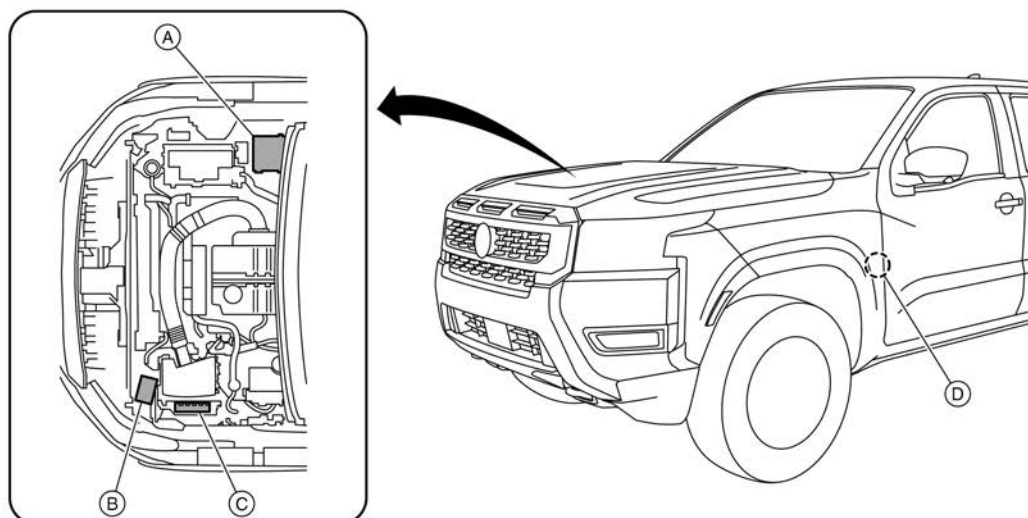
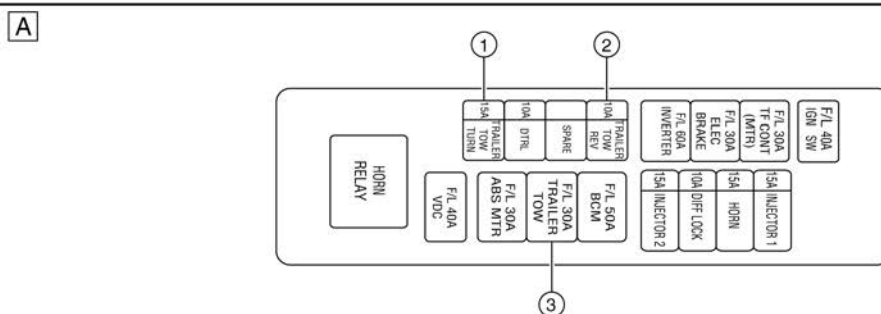
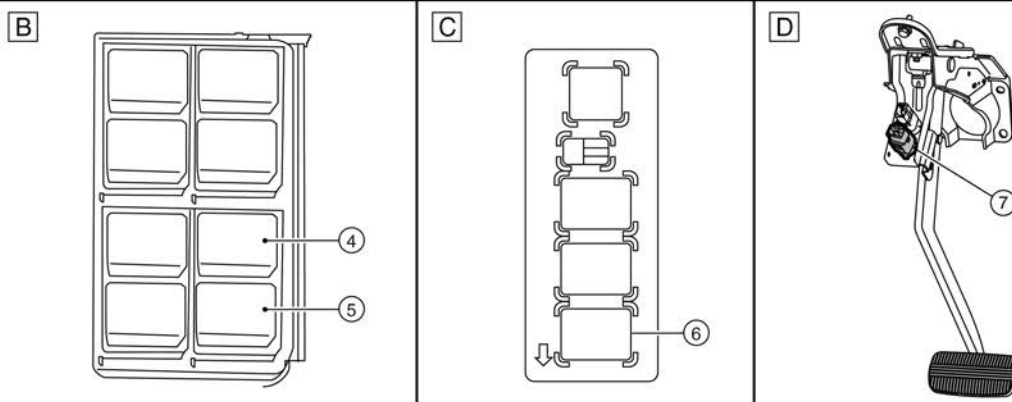
TGAZIA0389ZZ

Crew cab shown, King Cab® locations are the same.

- | | | |
|---------------------------|------------------------------------|-----------------------------|
| 1. Trailer tow turn relay | 2. Trailer tow back-up lamps relay | 3. Trailer tow power supply |
| 4. Back-up lamps relay | 5. Trailer turn LH relay | 6. Trailer turn RH relay |
| 7. Stop lamp switch | | |

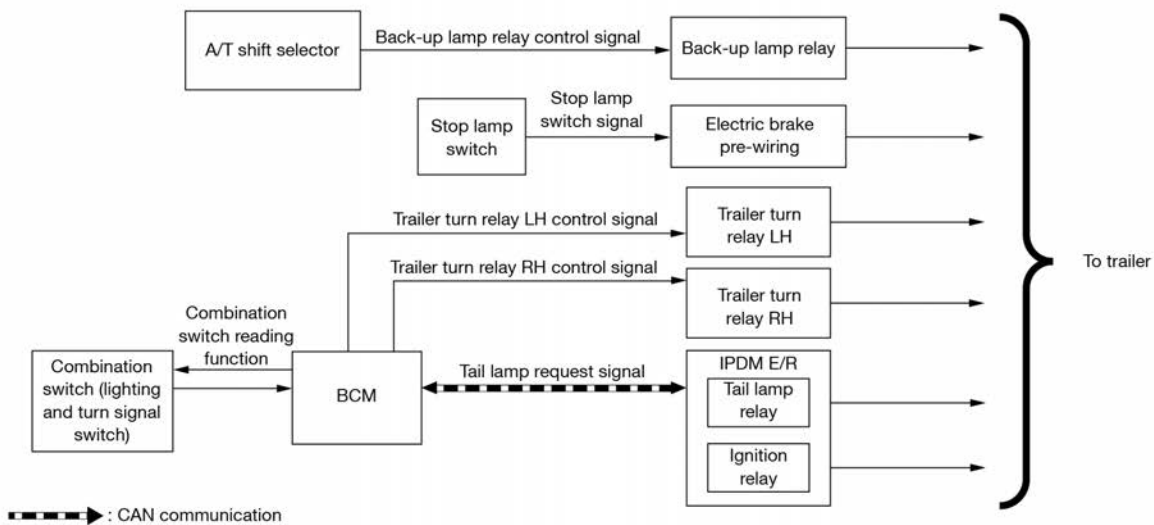


1. Trailer tow turn signal fuse
2. Trailer tow back-up lamps fuse
3. Trailer tow power supply
4. Trailer turn LH relay
5. Trailer turn RH relay
6. Back-up lamps relay
7. Stop lamp switch



1. Trailer tow turn signal fuse
2. Trailer tow back-up lamps fuse
3. Trailer tow power supply
4. Trailer turn LH relay
5. Trailer turn RH relay
6. Back-up lamps relay
7. Stop lamp switch

System Diagram



TGAZIA0040GB

System Description

Trailer Tail Lamp Operation

The trailer tail lamps are controlled by the IPDM E/R. With the combination switch (lighting and turn signal switch) in the 1st position, the BCM detects the LIGHTING SWITCH 1ST POSITION ON. The BCM sends a tail lamp ON request via the CAN communication lines to the IPDM E/R. The IPDM E/R then activates the tail lamp relay.

Trailer Turn Signal Lamp Operation

The trailer turn signal lamps are controlled by the BCM. When the turn signal switch is in the LH or RH position with the ignition switch ON, the combination switch (lighting and turn signal switch) sends a signal to the BCM. The BCM detects the TURN RH ON or TURN LH ON request. The BCM sends a control signal to the respective trailer turn relay which sends power to the trailer receptacle.

Trailer Hazard Lamp Operation

The trailer hazard lamps are controlled by the BCM. When the hazard switch is pressed, the BCM detects the HAZARD ON request. The BCM then sends a control signal to both trailer turn relays which sends power to the trailer receptacle.

Trailer Brake Lamp Operation

The trailer brake lamps operate when the brake pedal is depressed, sending the stop lamp switch signal to the trailer receptacle.

Trailer Back-up Lamp Operation

The trailer back-up lamps are controlled by the A/T shift selector. When the A/T shift selector is placed in Reverse (R) with the ignition switch ON, the A/T shift selector grounds the back-up lamp relay which sends power to the trailer receptacle.

TRAILER SWAY CONTROL

To minimize trailer sway, the vehicle may apply braking to individual wheels based on input from the vehicle sensors and vehicle speed. Trailer sway control is a function of the Vehicle Dynamic Control (VDC) system and is active when the VDC function is enabled.



CAUTION:

If the VDC-OFF switch is on (meaning VDC system OFF), the trailer sway control is also disabled.

When Trailer Sway Control is in operation, the VDC warning light blinks. When vehicle control is regained, VDC warning light will turn OFF.

BRAKE CONTROLLER

For vehicles without a factory-installed electric brake controller, a 6-pin electric brake pre-wiring connector and a jumper harness is included from the factory. This jumper harness contains the necessary circuits to install an aftermarket electric brake controller. The pre-wiring connector is located in the passenger compartment on the driver's side, taped back to the main harness behind the instrument panel above the parking brake pedal. Refer to the illustration and wiring information on the following page.

Electric Brake (Pre-wiring) Connector

Connector No.	M76
Connector Name	ELECTRIC BRAKE (PRE-WIRING)
Connector Color	WHITE



2	6
1	3 4 5

Terminal No.	Color of Wire	Signal Name	Wire Gauge
1	Black	GND	14
2	Yellow	STOP LAMPS	20
3	Brown	TRAILER BRAKE	14
4	Red	ILLUMINATION	20
5	Light blue	B+	14

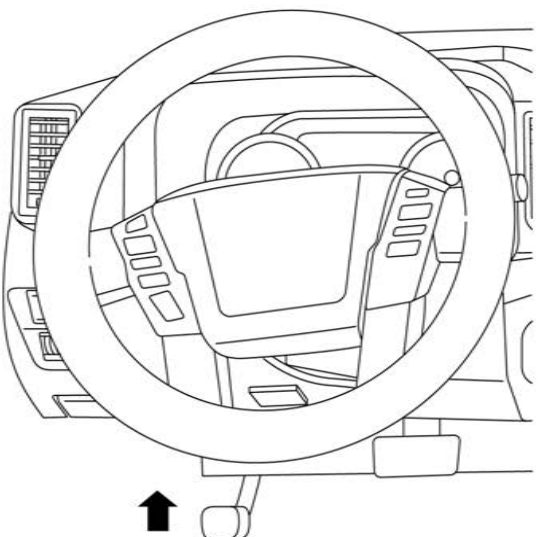
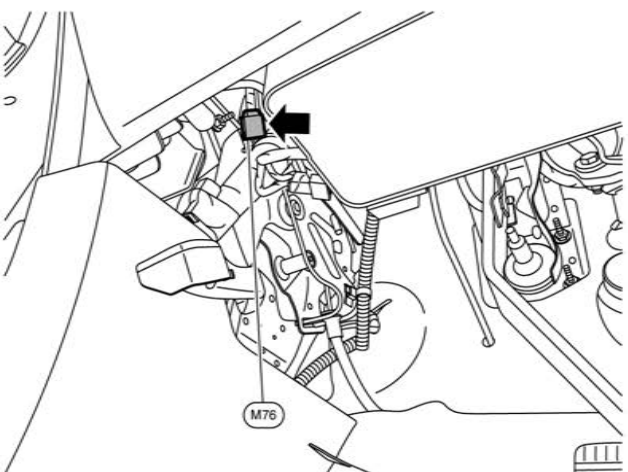
Connector No.	—
Connector Name	ELECTRIC BRAKE (PRE-WIRING) (JUMPER HARNESS SIDE)
Connector Color	WHITE



6	2
5	4 3 1

Terminal No.	Color of Wire	Signal Name
1	Black	GND
2	Red/Green	STOP LAMPS
3	Brown/White	TRAILER BRAKE
4	Red/Blue	ILLUMINATION (NOT USED)
5	Red	B+

ELECTRIC BRAKE PRE-WIRING



TCAAZIA0041GB

TRAILER HITCH

Adding A Hitch



WARNING:

To avoid risk of death or injury caused by potential trailer separation, special hitches, which include frame reinforcements, are required for towing above 907 kg (2,000 lbs).

The hitch should not be attached to or affect the operation of the impact absorbing bumper.

Do not use axle-mounted hitches.

Do not modify the vehicle exhaust system, brake system, etc., to install a trailer hitch.

To reduce the possibility of additional damage if your vehicle is struck from the rear, where practical, remove the receiver when not in use.

Regularly check that all trailer hitch mounting bolts are securely mounted.

When towing with the hitch ball mounted to the rear bumper, do not make sharp turns. The trailer may contact the bumper and cause damage to the bumper or trailer.

Weight Distribution Hitch

This type of hitch is also called a "load-leveling" or "equalizing hitch". A set of bars attach to the ball mount and to the trailer to distribute the tongue weight (hitch weight) of your trailer. Many vehicles can't carry the full tongue weight of a given trailer and need some of the tongue weight transferred through the frame and through pushing down on the front wheels. This gives stability to the tow vehicle. A weight distributing hitch system (Class IV) is required if you plan to tow trailers with a maximum weight of over 2,268 kg (5,000 lbs). Check with the trailer and towing equipment manufacturers to determine if they recommend the use of a weight distributing hitch system.

NOTE:

If your vehicle was not equipped with the factory-installed trailer tow package, it is pre-wired to support a Genuine NISSAN accessory trailer wiring kit. To help ensure proper operation, Nissan recommends that only the Genuine NISSAN trailer wiring kit be used. Please contact your Authorized NISSAN Dealer for details. The accessory trailer wiring kit connects to the vehicle harness connector located behind the rear bumper. Refer to [Trailer Wiring \(pg. 351\)](#). For accessory trailer wiring kit installation instructions, refer to www.nissan-techinfo.com.

Follow the instructions provided by the manufacturer for installing and using the weight distributing hitch system.

General setup instructions are as follows:

1. Park the unloaded vehicle on a level surface.
2. Measure the height of a reference point on the front and rear bumpers at the center of the vehicle.
3. Attach the trailer to the vehicle and adjust the hitch equalizers so that the front bumper height is within 13 mm (0.6 in) of the reference height measured in step 2. The rear bumper should be no higher than the reference height measured in step 2.

**WARNING:**

Properly adjust the weight distributing hitch so that the rear of the bumper is no higher than the measured reference height when the trailer is attached. If the rear bumper is higher than the measured reference height when loaded, the vehicle may handle unpredictably, which could cause a loss of vehicle control and cause serious personal injury or property damage.

Class I Hitch

The Genuine NISSAN step bumper is considered a Class I ball mount. It can be used to tow trailers with a maximum weight of 907 kg (2,000 lbs).

Class II Hitch

Class II trailer hitch equipment (receiver, ball mount and hitch ball) can be used to tow trailers with a maximum weight of 1,587.3 kg (3,500 lbs).

Class III Hitch

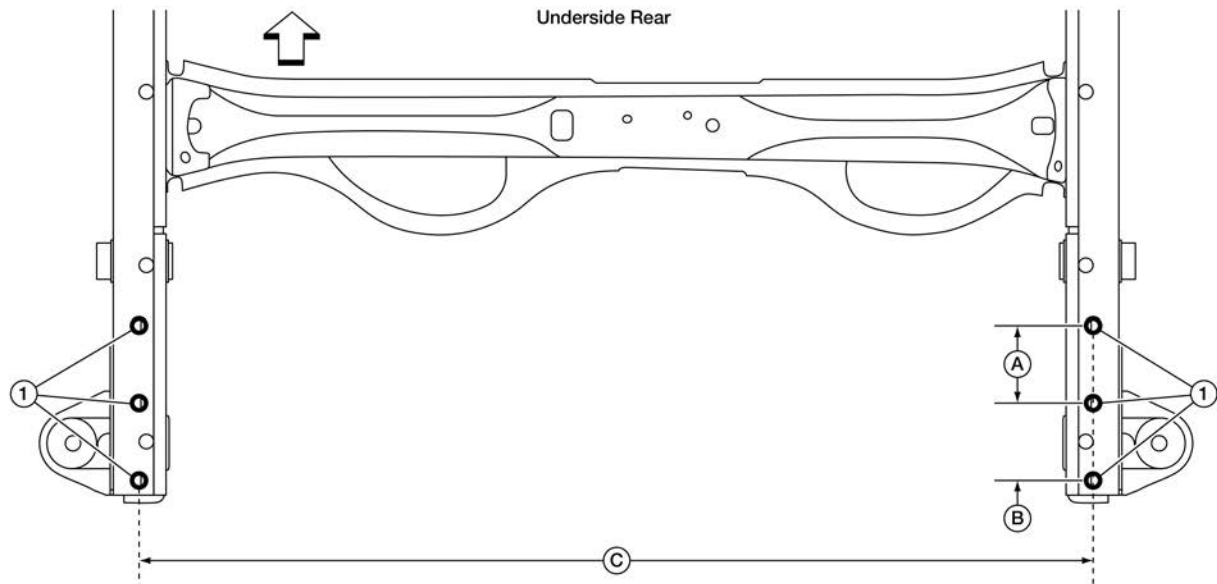
Class III trailer hitch equipment (receiver, ball mount and hitch ball) can be used to tow trailers with a maximum weight of 2,268 kg (5,000 lbs).

Class IV Hitch

Weight Carrying - Class IV trailer hitch equipment (receiver, ball mount and hitch ball) can be used to tow trailers with a maximum gross trailer weight (GTW) of 4,535 kg (10,000 lbs) and a maximum trailer tongue weight (TW) of 453 kg (1,000 lbs).

Weight Distribution - Class IV hitches used with a weight distribution system are rated to tow trailers up to 6,350 kg (14,000 lbs) gross trailer weight (GTW) and a maximum trailer tongue weight (TW) of 635 kg (1,400 lbs). Not all Class IV hitches are compatible with a weight distribution system, a higher class drawbar does not increase the towing capacity of the Class IV hitch. The weight distributed tow rating can only be achieved using a weight distributing system. See the specific hitch manufacturer for that information.

Trailer Hitch Mounting Hole Dimensions



TGAZIA0036GB

↖: Front of vehicle.

1. Hitch mount weld nuts
M12 x 1.25

C. 1,107.5 mm (43.6 in)

A. 92.3 mm (3.6 in)

B. 92.3 mm (3.6 in)

DESIGN REQUIREMENTS FOR MODIFICATIONS

COOLING

Engine Cooling System

**WARNING:**

Coolant is toxic and can be fatal if swallowed. Keep away from pets and children. If not reused, dispose of in accordance with local environmental regulations.

**WARNING:**

To avoid the risk of personal injury, do not remove the radiator cap when the engine is hot. Serious burns could occur from high-pressure engine coolant escaping from the radiator. Wrap a thick cloth around the cap. Slowly turn it a quarter of a turn to release built-up pressure. Carefully remove the radiator cap by turning it all the way.

**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 airflow can cause overheating and could lead to component damage.

**WARNING:**

To help avoid risk of death or injury caused by damaged fuel, lubrication, air intake or exhaust tubing and lines, do not kink or bend fuel, lubrication air intake and exhaust tubing or lines and ensure all tubes and lines are routed and installed properly and care is given during the disassembly and assembly process.

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.

FRONT BUMPER



WARNING:

For vehicles equipped with driver assistance systems, do not alter the front bumper. Doing so may cause the system to operate improperly.

REAR BUMPER



WARNING:

For vehicles equipped with driver assistance systems, do not alter the rear bumper. Doing so may cause the system to operate improperly.

SONAR SYSTEM

Component Parts Location

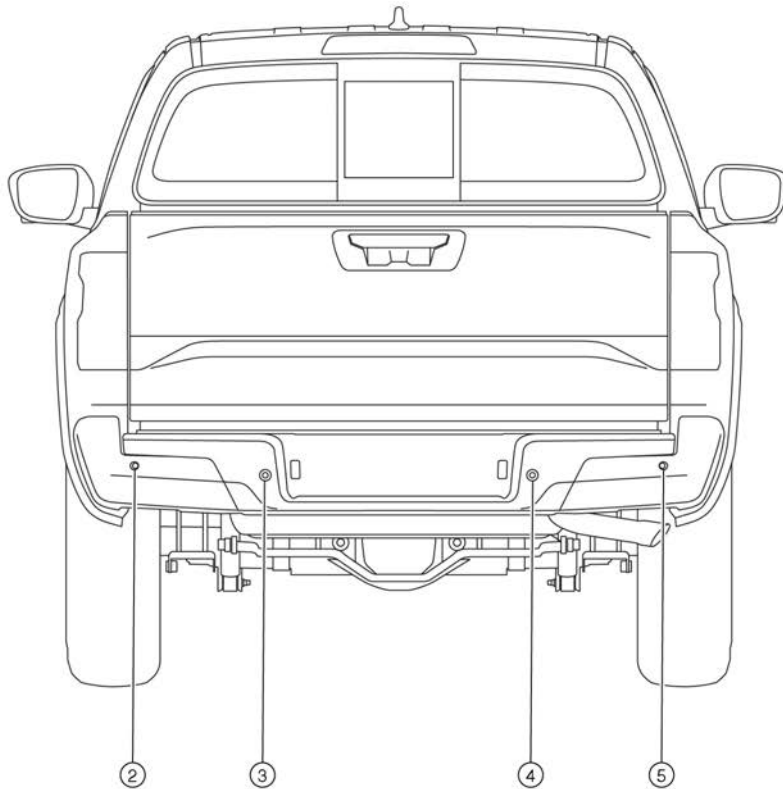


WARNING:

For vehicles equipped with sonar, do not alter the rear bumper. Doing so may cause the system to operate improperly.

SONAR SYSTEM

[DESIGN REQUIREMENTS FOR MODIFICATIONS]



TGAAZIA0291ZZ

1. Sonar system OFF switch
(with sonar system OFF
indicator)

2. Rear sonar sensor LH outer

3. Rear sonar sensor LH inner

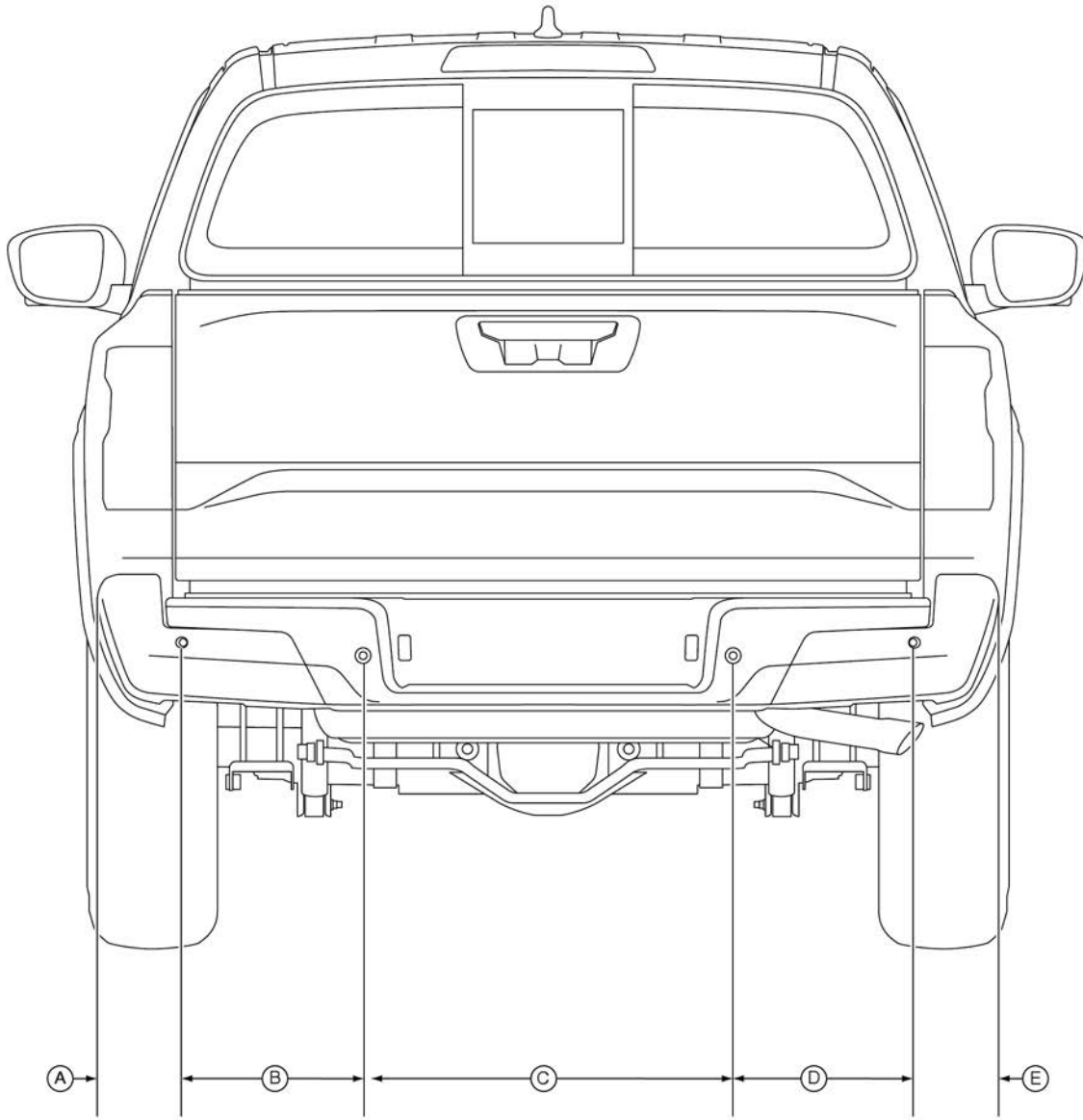
4. Rear sonar sensor RH inner

5. Rear sonar sensor RH outer

SONAR SYSTEM

[DESIGN REQUIREMENTS FOR MODIFICATIONS]

Rear Sensor Layout Dimensions



TGAZIA0292ZZ

A. 152.4 mm (6.0 in)

B. 355.6 mm (14.0 in)

C. 736.6 mm (29.0 in)

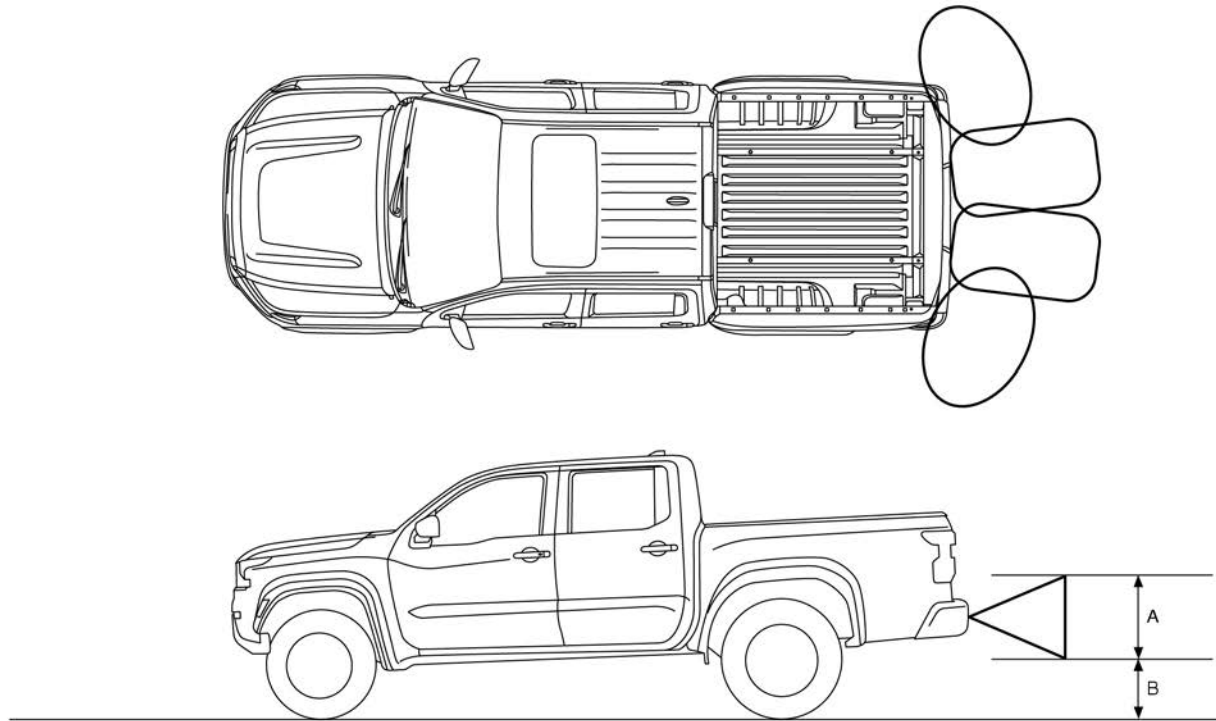
D. 355.6 mm (14.0 in)

E. 152.4 mm (6.0 in)

SONAR SYSTEM

[DESIGN REQUIREMENTS FOR MODIFICATIONS]

Sonar System Detection Area



TGAAZIA0293ZZ

A. Approx. 50 cm (19.6 in)

B. Approx. 15 cm (5.9 in)

Sonar Indicator Display

- Around view monitor control unit that receives the detection signal and detection distance signal from sonar control unit displays the sonar indicator on display.
- Around view monitor control unit changes the color or blinking cycle of the indicator according to the detection distance.



CAUTION:

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

The Sonar System sounds a tone to warn the driver of obstacles near the rear bumper. The sonar system automatically turns on when the shift selector is placed in R (Reverse) and the ignition switch is in the ON position. The system is deactivated at speeds above 10 km/h (6 mph) and may not detect certain angular or moving objects.

The sonar system OFF switch on the instrument panel allows the driver to turn the sonar system on and off. To turn the system off, the ignition must be ON, and the shift selector in R (Reverse) or D (Drive). Press the switch to turn the system back on. It will be automatically turned on when the engine is restarted.

Refer to the Owner's Manual for full system operating instructions.

WINDSHIELD



WARNING:

For vehicles equipped with driver assistance systems, do not attach a sticker (including transparent material) or install an accessory near the camera unit. Doing so may cause the system to operate improperly.

MIRRORS

Blind Spot Warning System



WARNING:

For vehicles equipped with Blind Spot Warning (BSW) System or Around View® Monitor System, do not alter the outside mirrors. Doing so may cause the system(s) to operate improperly.

EXHAUST – CREW CAB

Exhaust System



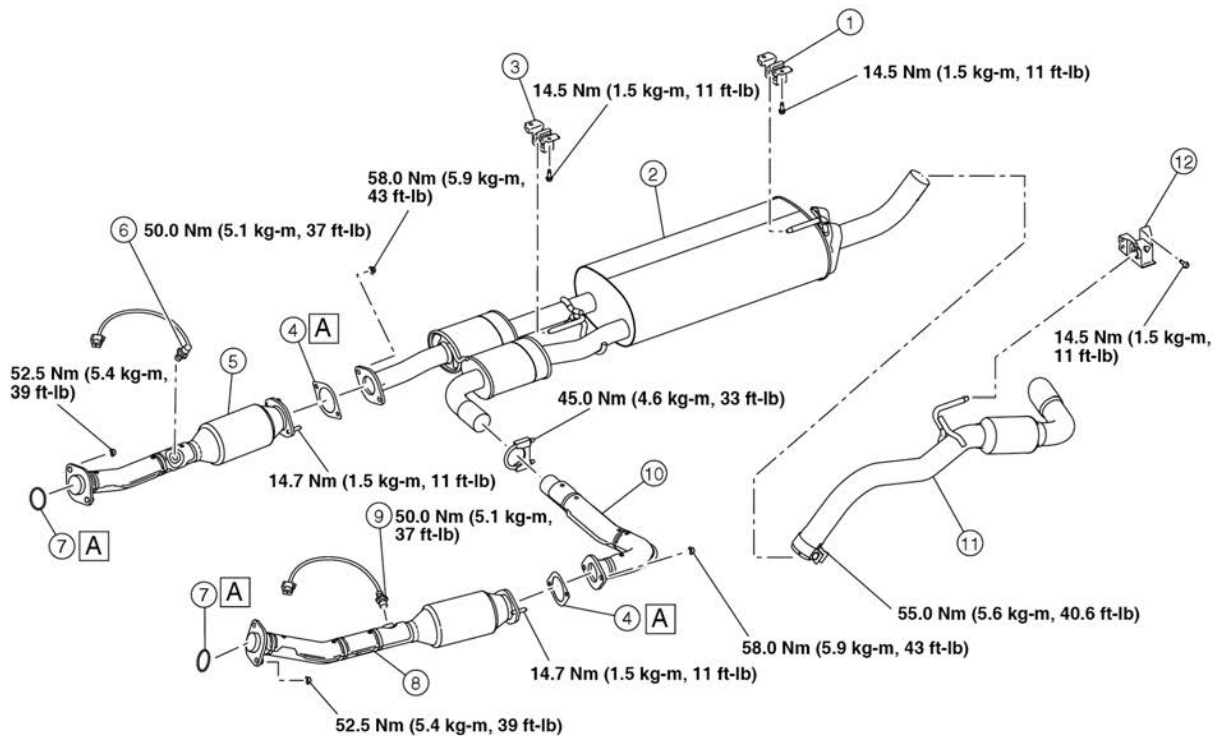
WARNING:

Exhaust system components can become hot enough during operation and testing to cause burns or ignite and melt combustible materials. The exhaust and exhaust components can remain hot after the vehicle stops moving and has been shut down. To avoid the risk of fire property damage, burns or other serious personal injury, allow the exhaust system to cool before beginning repairs or service. Make sure that no combustible materials are located where they are likely to come in contact with hot exhaust or exhaust components.

Changes to the exhaust system are not recommended.

EXHAUST – CREW CAB

[DESIGN REQUIREMENTS FOR MODIFICATIONS]



TGAZIA0296ZZ

↔: Front of vehicle.

- | | | |
|---------------------------|-----------------------------|------------------------------------|
| 1. Exhaust hanger bracket | 2. Main muffler | 3. Exhaust hanger bracket |
| 4. Gasket | 5. Right front exhaust tube | 6. Heated oxygen sensor 2 (bank 1) |
| 7. Ring gasket | 8. Left front exhaust tube | 9. Heated oxygen sensor 2 (bank 2) |
| 10. Center exhaust tube | 11. Tailpipe | 12. Exhaust hanger bracket |
- A. Always replace after every disassembly

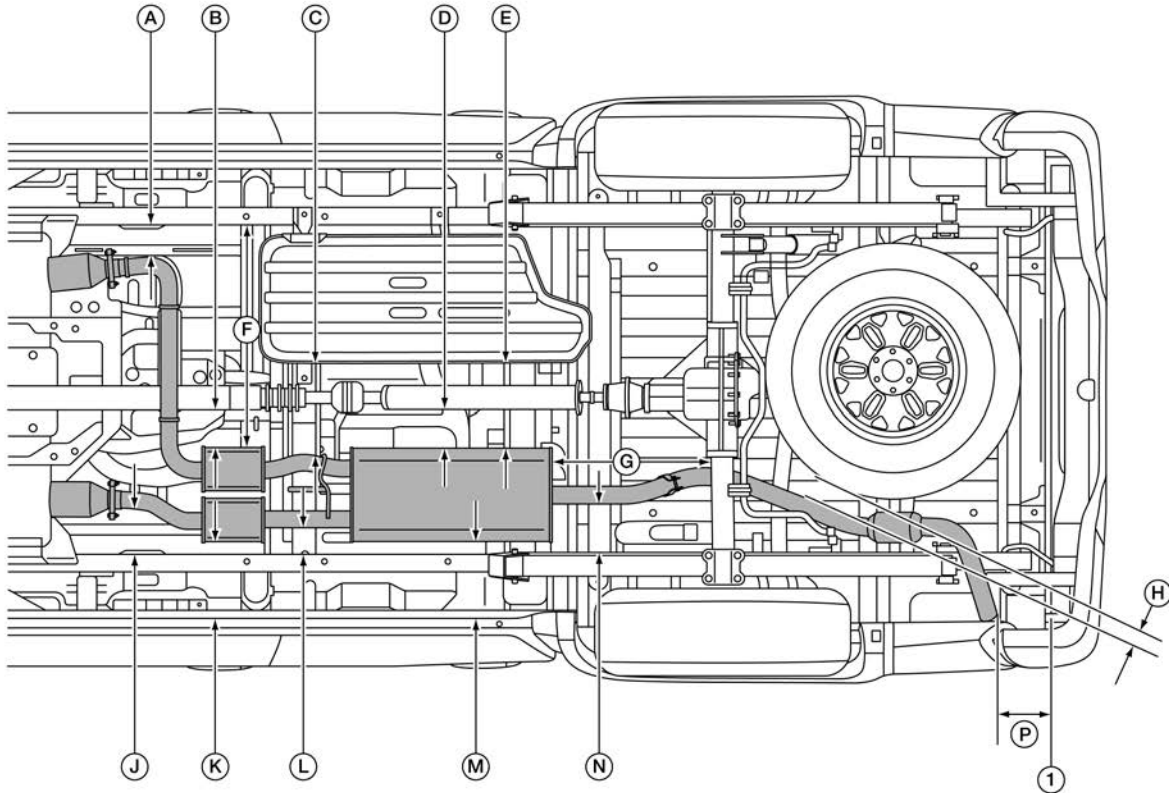
NOTE:

It is recommended that muffler and central tubes are replaced at the same time because U-bolt deforms tubes of both parts at the installation.

EXHAUST – CREW CAB

[DESIGN REQUIREMENTS FOR MODIFICATIONS]

Exhaust Measurements Standard Wheelbase



TGAAZIA0298ZZ

1. Edge of bed floor panel

C. 292.0 mm (11.5 in)

F. 711.3 mm (28.0 in)

J. 139.6 mm (5.5 in)

M. 241.3 mm (9.5 in)

A. 89.0 mm (3.5 in)

D. 114.3 mm (4.5 in)

G. 495.3 mm (19.5 in)

K. 228.5 mm (9.0 in)

N. 152.3 mm (6.0 in)

B. 114.3 mm (4.5 in)

E. 261.5 mm (10.3 in)

H. 89.0 mm (3.5 in)

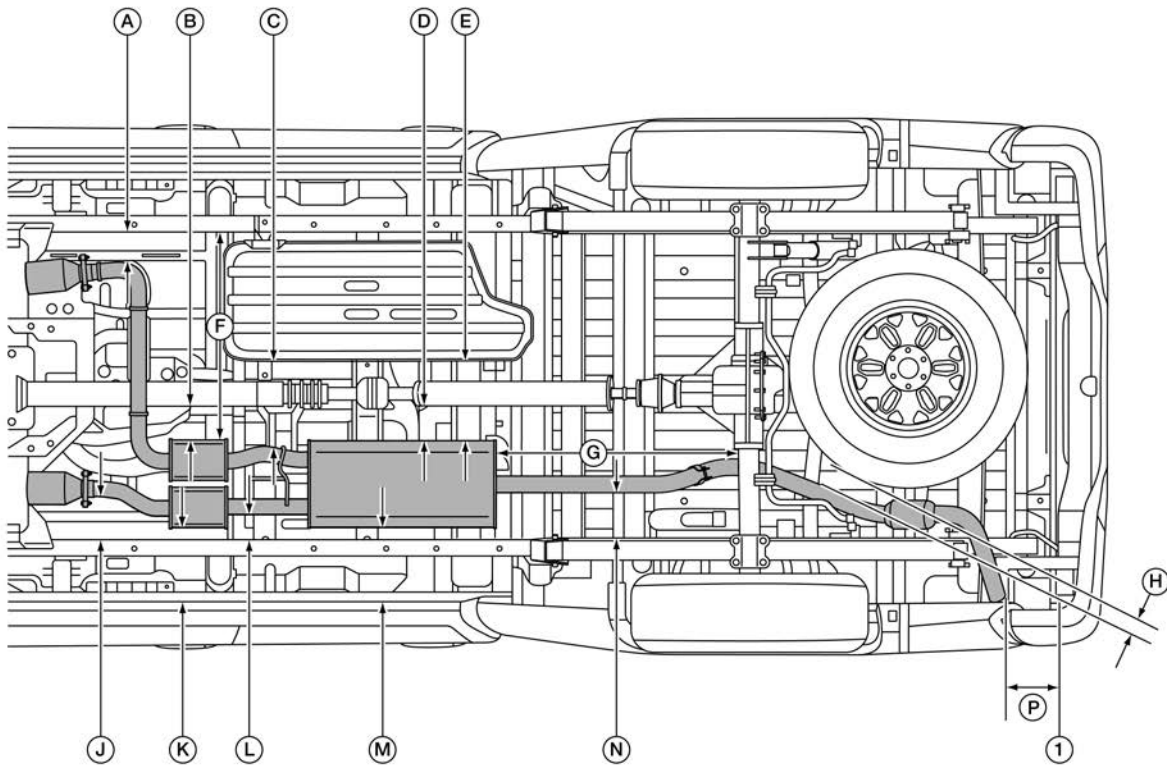
L. 76.2 mm (3.0 in)

P. 241.3 mm (9.5 in)

EXHAUST – CREW CAB

[DESIGN REQUIREMENTS FOR MODIFICATIONS]

Exhaust Measurements Long Wheelbase



TGAZIA0299ZZ

1. Edge of bed floor panel

C. 292.0 mm (11.5 in)

F. 711.3 mm (28.0 in)

J. 139.6 mm (5.5 in)

M. 241.3 mm (9.5 in)

A. 89.0 mm (3.5 in)

D. 114.3 mm (4.5 in)

G. 508.0 mm (20.0 in)

K. 228.5 mm (9.0 in)

N. 152.3 mm (6.0 in)

B. 114.3 mm (4.5 in)

E. 261.5 mm (10.3 in)

H. 89.0 mm (3.5 in)

L. 76.2 mm (3.0 in)

P. 241.3 mm (9.5 in)

Inspection After Installation

NOTE:

The mounting brackets should not be grounded or touch the rubber insulators after installation.

- With the engine running, check exhaust tube joints for gas leakage and unusual noises.
- 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.

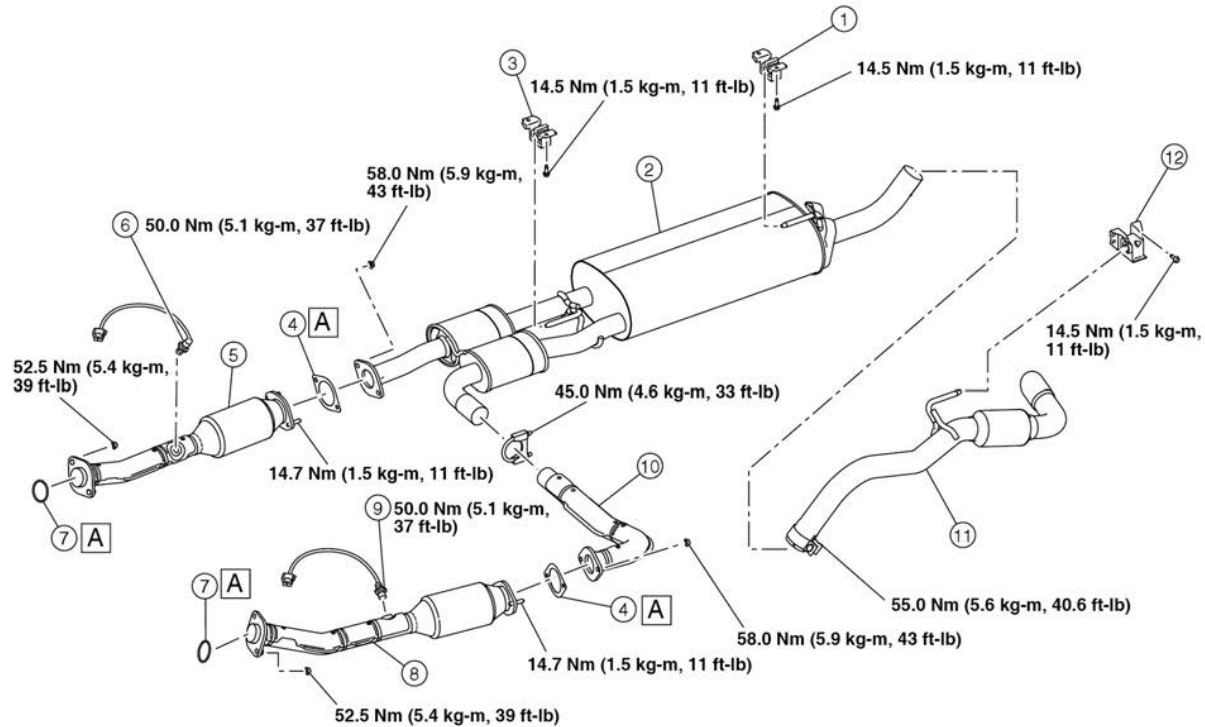
EXHAUST – KING CAB®**Exhaust System****WARNING:**

Exhaust system components can become hot enough during operation and testing to cause burns or ignite and melt combustible materials. The exhaust and exhaust components can remain hot after the vehicle stops moving and has been shut down. To avoid the risk of fire property damage, burns or other serious personal injury, allow the exhaust system to cool before beginning repairs or service. Make sure that no combustible materials are located where they are likely to come in contact with hot exhaust or exhaust components.

Changes to the exhaust system are not recommended.

EXHAUST – KING CAB®

[DESIGN REQUIREMENTS FOR MODIFICATIONS]



TGAAZIA0296ZZ

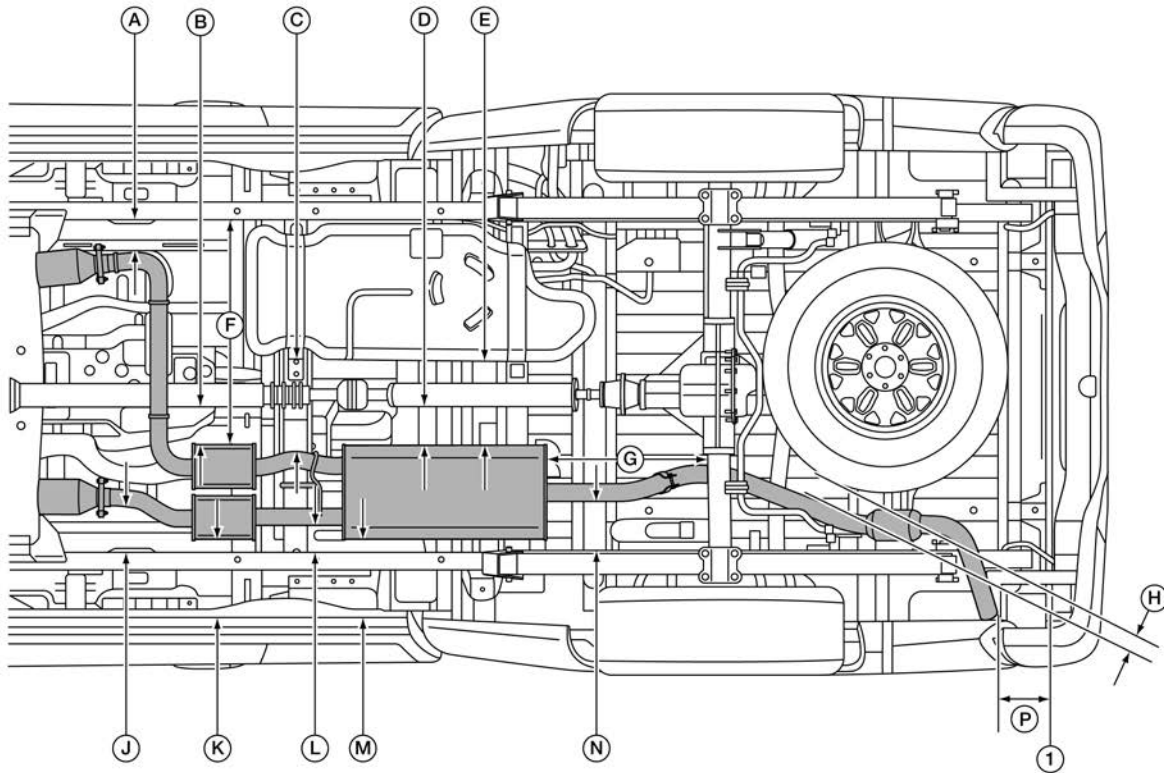
←: Front of vehicle.

- | | | |
|---------------------------|-----------------------------|------------------------------------|
| 1. Exhaust hanger bracket | 2. Main muffler | 3. Exhaust hanger bracket |
| 4. Gasket | 5. Right front exhaust tube | 6. Heated oxygen sensor 2 (bank 1) |
| 7. Ring gasket | 8. Left front exhaust tube | 9. Heated oxygen sensor 2 (bank 2) |
| 10. Center exhaust tube | 11. Tailpipe | 12. Exhaust hanger bracket |
- A. Always replace after every disassembly

NOTE:

It is recommended that muffler and central tubes are replaced at the same time because U-bolt deforms tubes of both parts at the installation.

Exhaust Measurements



TGAZIA0300ZZ

1. Edge of bed floor panel	A. 89.0 mm (3.5 in)	B. 114.3 mm (4.5 in)
C. 292.0 mm (11.5 in)	D. 114.3 mm (4.5 in)	E. 261.5 mm (10.3 in)
F. 711.3 mm (28.0 in)	G. 495.3 mm (19.5 in)	H. 89.0 mm (3.5 in)
J. 139.6 mm (5.5 in)	K. 228.5 mm (9.0 in)	L. 76.2 mm (3.0 in)
M. 241.3 mm (9.5 in)	N. 152.3 mm (6.0 in)	P. 241.3 mm (9.5 in)

Inspection After Installation

NOTE:

The mounting brackets should not be grounded or touch the rubber insulators after installation.

- With the engine running, check exhaust tube joints for gas leakage and unusual noises.
- 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

When replacing a tire, use the same size, tread design, speed rating and load carrying capacity as originally equipped.



WARNING:

- The use of tires other than those recommended or the mixed use of tires of different brands, construction (bias, bias-belted or radial), or tread patterns can adversely affect the ride, braking, handling, Vehicle Dynamic Control (VDC) system, ground clearance, body-to-tire clearance, tire chain clearance, speedometer calibration, headlamp aim and bumper height. Some of these effects may lead to accidents and could result in serious personal injury.
- If the wheels are changed for any reason, always replace with wheels which have the same off-set dimension. Wheels of a different off-set could cause premature tire wear, degrade vehicle handling characteristics, affect the VDC system and/or interference with the brake discs. Such interference can lead to decreased braking efficiency and/or early brake pad wear. For additional information on wheel off-set dimensions, refer to [WHEELS AND TIRES \(pg. 444\)](#).
- Since the spare tire is not equipped with the TPMS, when a spare tire is mounted or a wheel is replaced, tire pressure will not be indicated, the TPMS will not function and the low tire pressure warning light will flash for approximately 1 minute. The light will remain on after 1 minute. Have your tires replaced and/or TPMS system reset as soon as possible. It is recommended you visit a NISSAN dealer for this service.
- Replacing tires with those not originally specified by NISSAN could affect the proper operation of the TPMS.
- The TPMS sensor may be damaged if it is not handled correctly. Be careful when handling the TPMS sensor.
- When replacing the TPMS sensor, the ID registration may be required. It is recommended you visit a NISSAN dealer for ID registration.
- Do not use a valve stem cap that is not specified by NISSAN. The valve stem cap may become stuck.
- Be sure that the valve stem caps are correctly fitted. Otherwise the valve may be clogged up with dirt and cause a malfunction or loss of pressure.
- Do not install a damaged or deformed wheel or tire even if it has been repaired. Such wheels or tires could have structural damage and could fail without warning.
- The use of retread tires is not recommended.



CAUTION:

Always use tires of the same type, size, brand, construction (bias, bias-belted or radial), and tread pattern on all four wheels. Failure to do so may result in a circumference difference between tires on the front and rear axles which will cause excessive tire wear and may damage the transmission, transfer case and differential gears.

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, GVWR, the CG or the UVW.

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:**

- The front axle, rear axle, transfer case, and transmission vent hoses must not be bent, pinched, or obstructed, as these components could be damaged or malfunction.
- Any deviation from Nissan specifications may adversely affect powertrain operation, including engine, transmission, transfer case or component reliability. The aftermarket equipment manufacturer, second stage manufacturer, and upfitter are responsible for maintaining the specifications after the completion of any modifications.
- Additional brackets, bars, or supports [including an equalizing-type trailer hitch or auxiliary suspension systems (springs)] must not be welded to the axle assembly.

TRANSMISSION



CAUTION:

- The engine and transmission position 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.
- 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.

NOTE:

The automatic transmission has a shift by wire function. A discharged battery has the following affects:

- The automatic transmission cannot be shifted into neutral or park positions. Please follow the service manual procedures for restoring battery power or towing the vehicle.

FRAME**WARNING:**

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

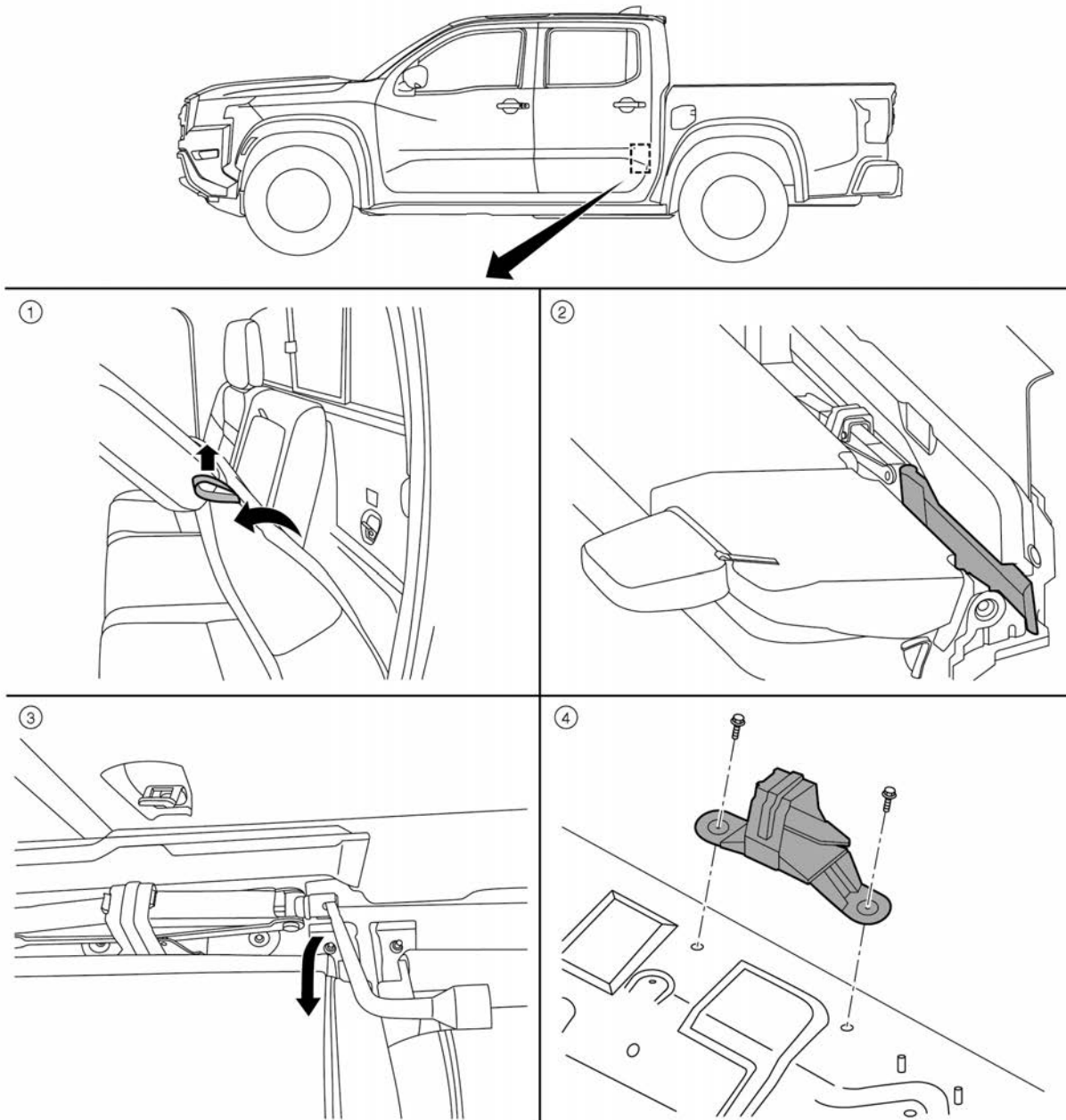
- Do not weld on any part of the frame.
- Do not modify or alter the front crush horns. Modifications or alterations could adversely affect the vehicle in a crash.
- Only use Genuine NISSAN front tow hooks.
- Drilling holes in the frame is not authorized.

JACK — CREW CAB

Jack Storage

NOTE:

Jack and tools are stored under RH rear seat.

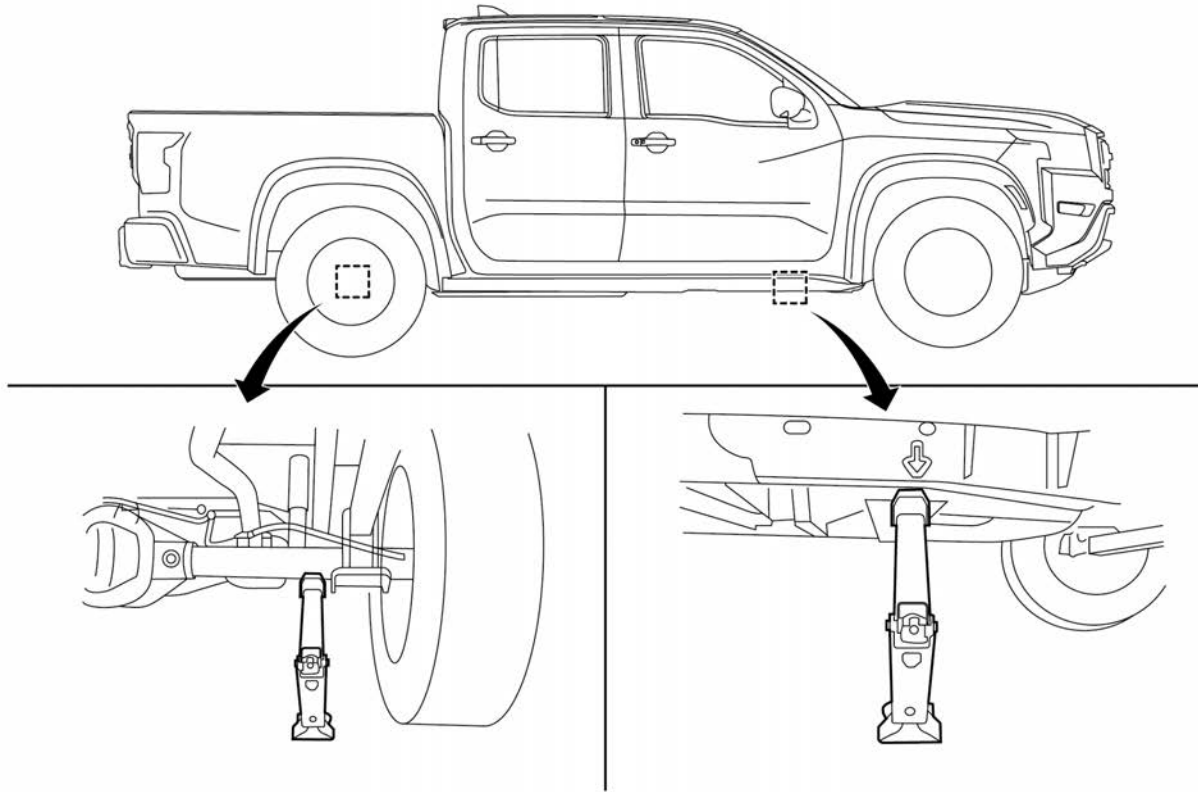


TGAAZIA0282ZZ

JACK — CREW CAB

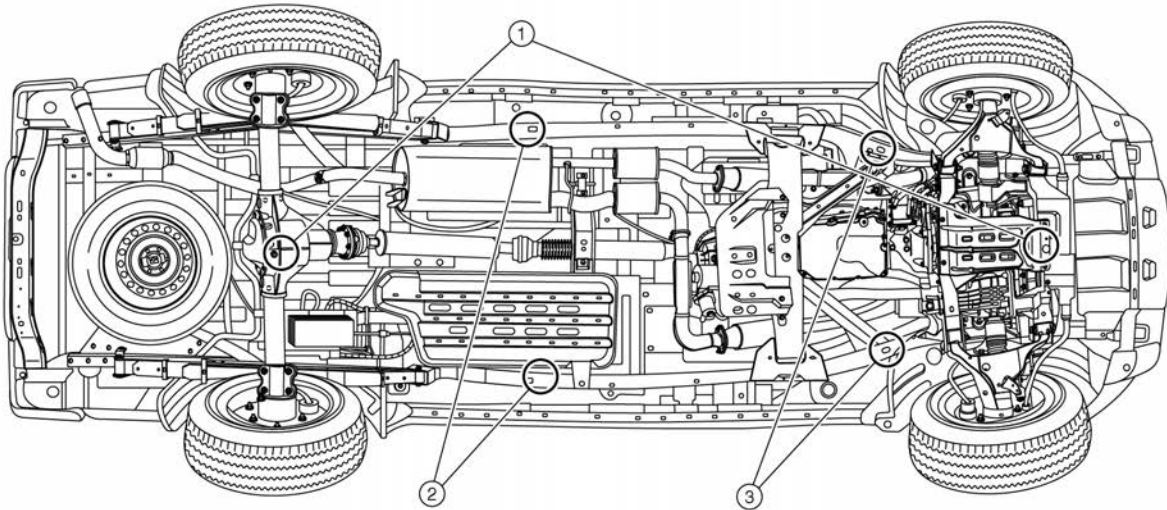
[DESIGN REQUIREMENTS FOR MODIFICATIONS]

Jacking and Lifting Points



TGAZIA0283ZZ

Garage Jack Points



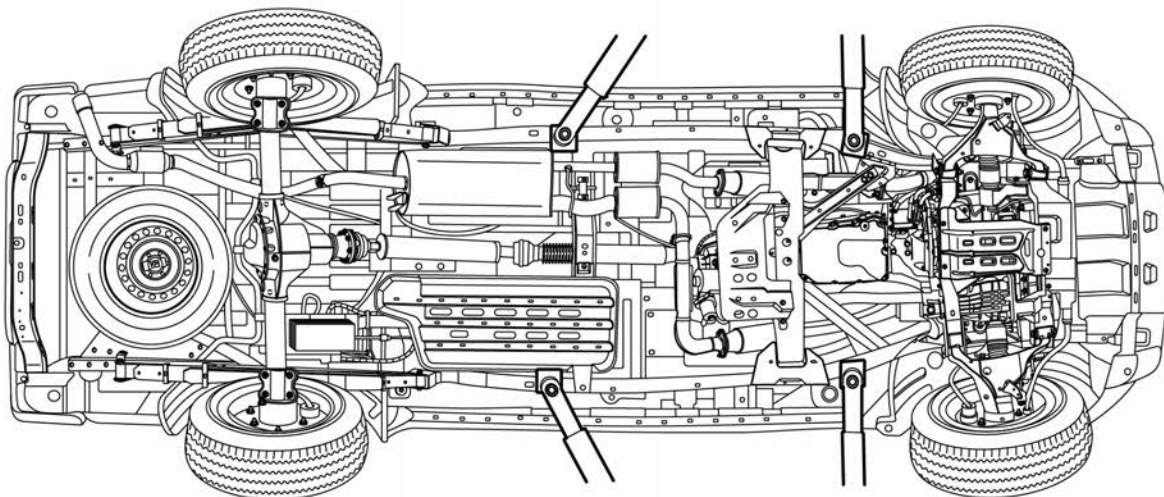
TGAAZIA0284ZZ

1. Jack points

2. Front safety stand points

3. Rear safety stand points

2 Pole Lift Points



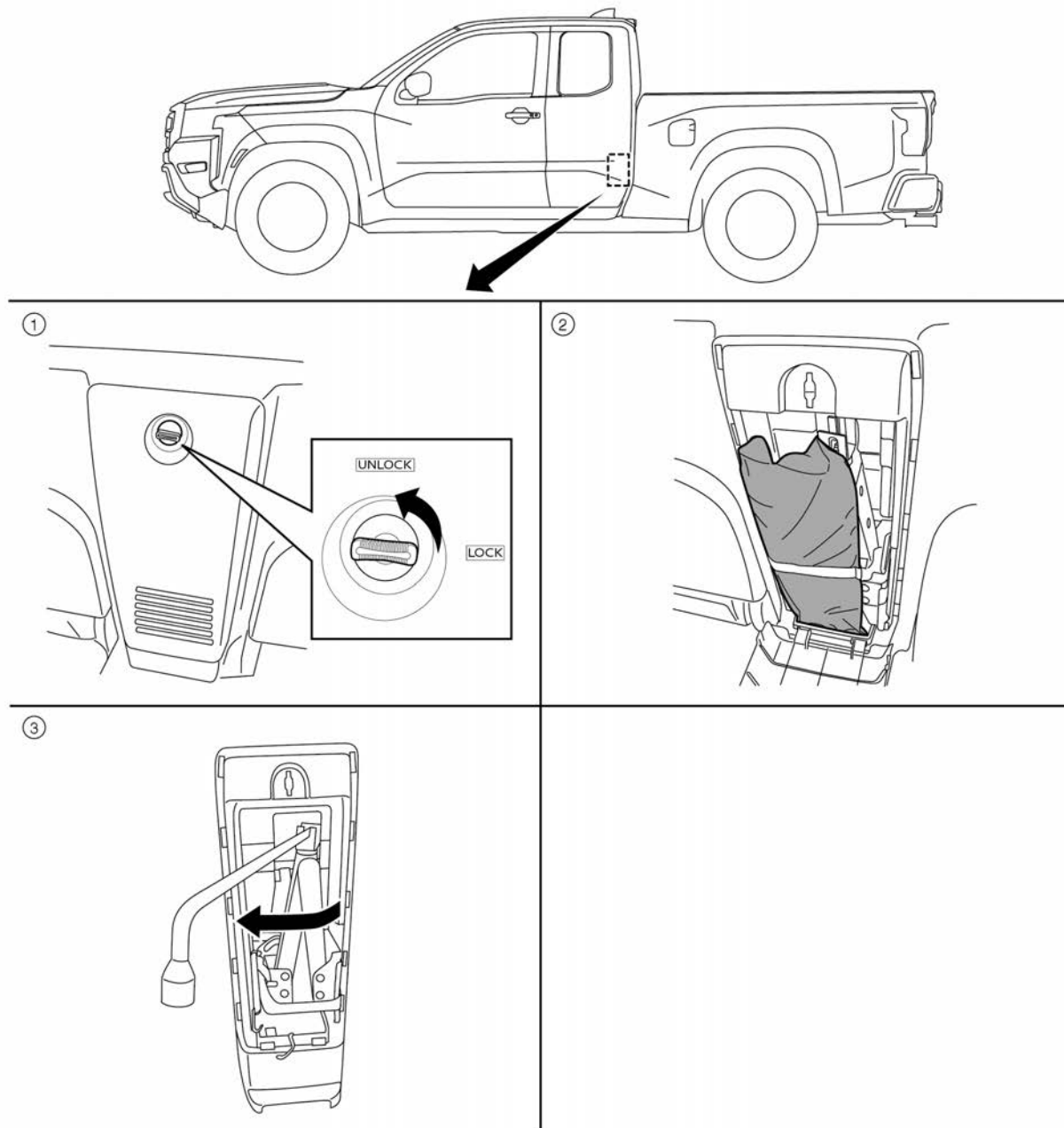
TGAAZIA0285ZZ

JACK — KING CAB®

Jack Storage

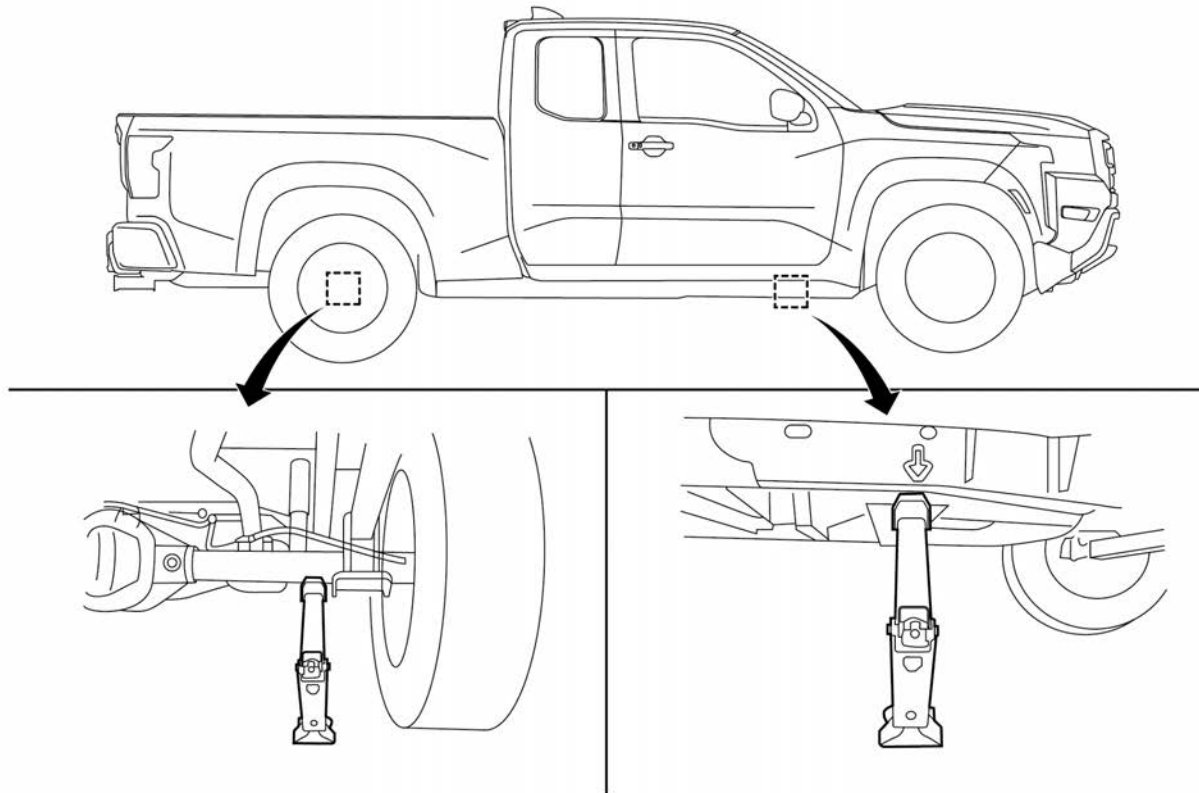
NOTE:

Jack and tools are stored between rear seats.



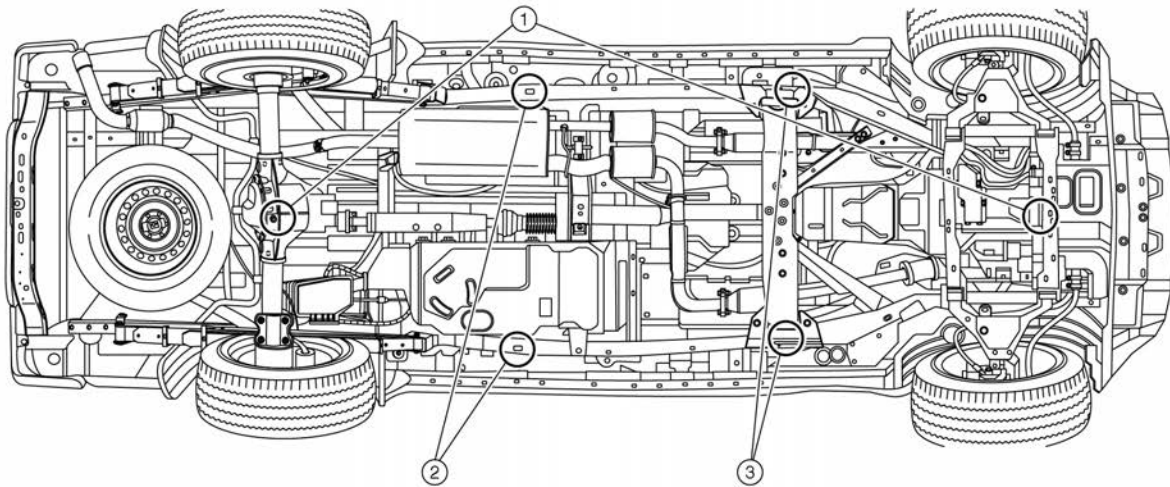
TGAZIA0286ZZ

Jacking and Lifting Points



TGAZIA0287ZZ

Garage Jack Points



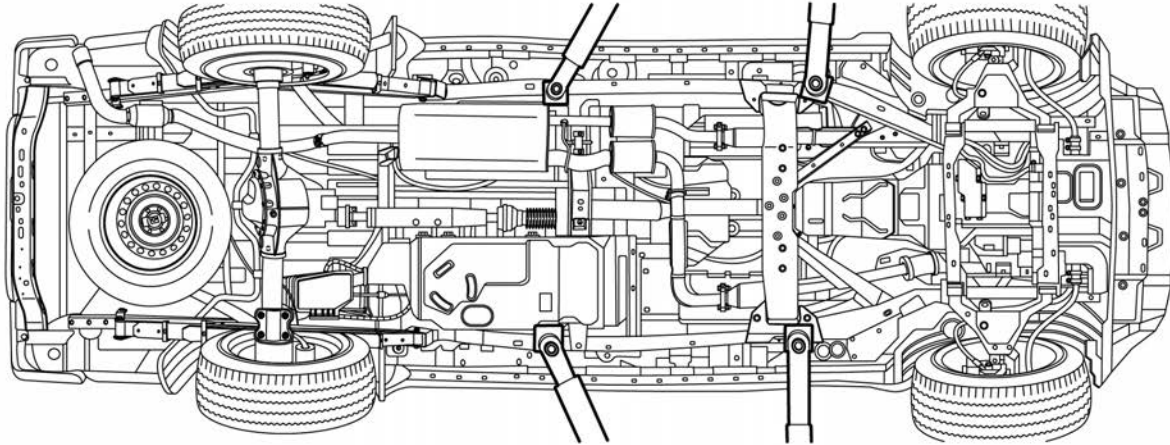
TGAAZIA0288ZZ

1. Jack points

2. Rear safety stand points

3. Front safety stand points

2 Pole Lift Points



TGAZIA0289ZZ

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.

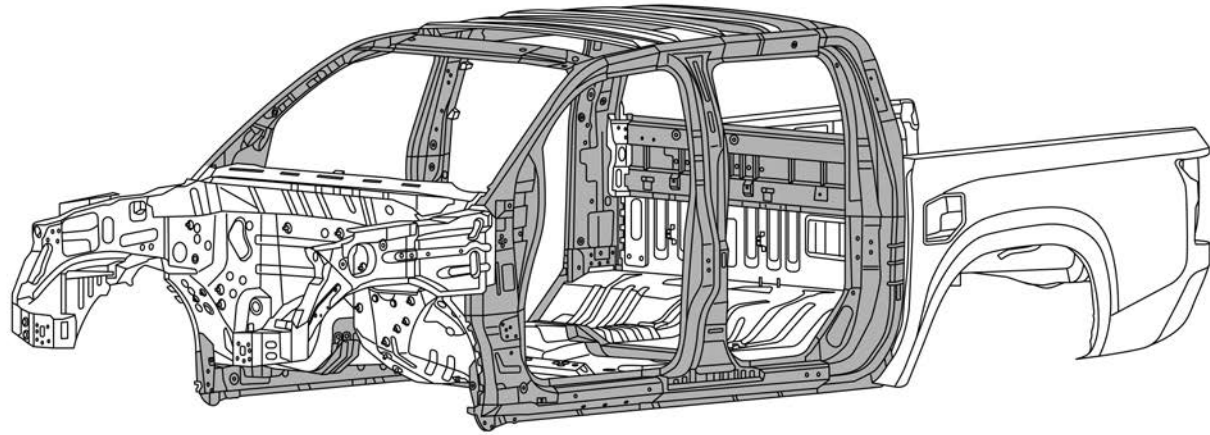
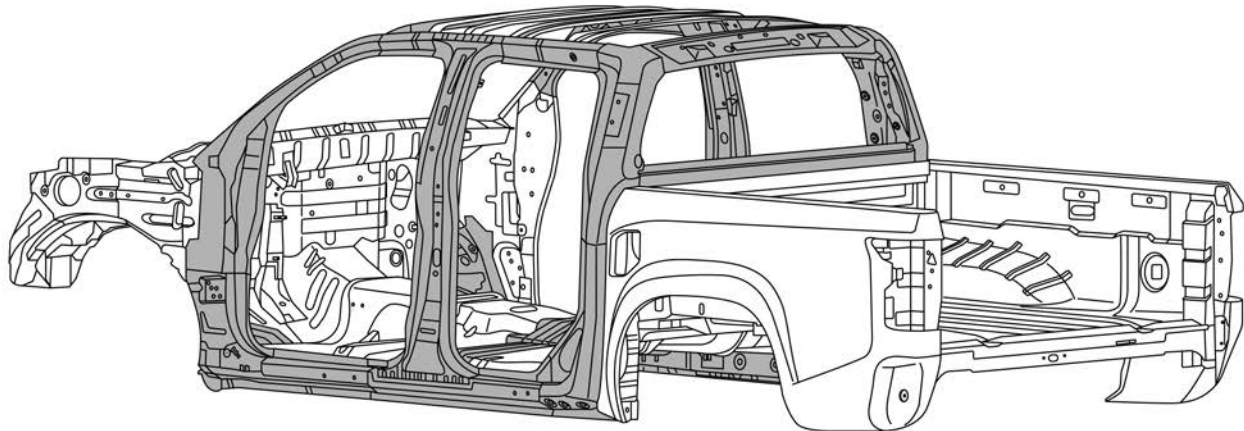
HIGH STRENGTH STEEL LOCATIONS

[DESIGN REQUIREMENTS FOR MODIFICATIONS]

High Strength Steel Locations — Crew Cab

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

Cab and Bed area

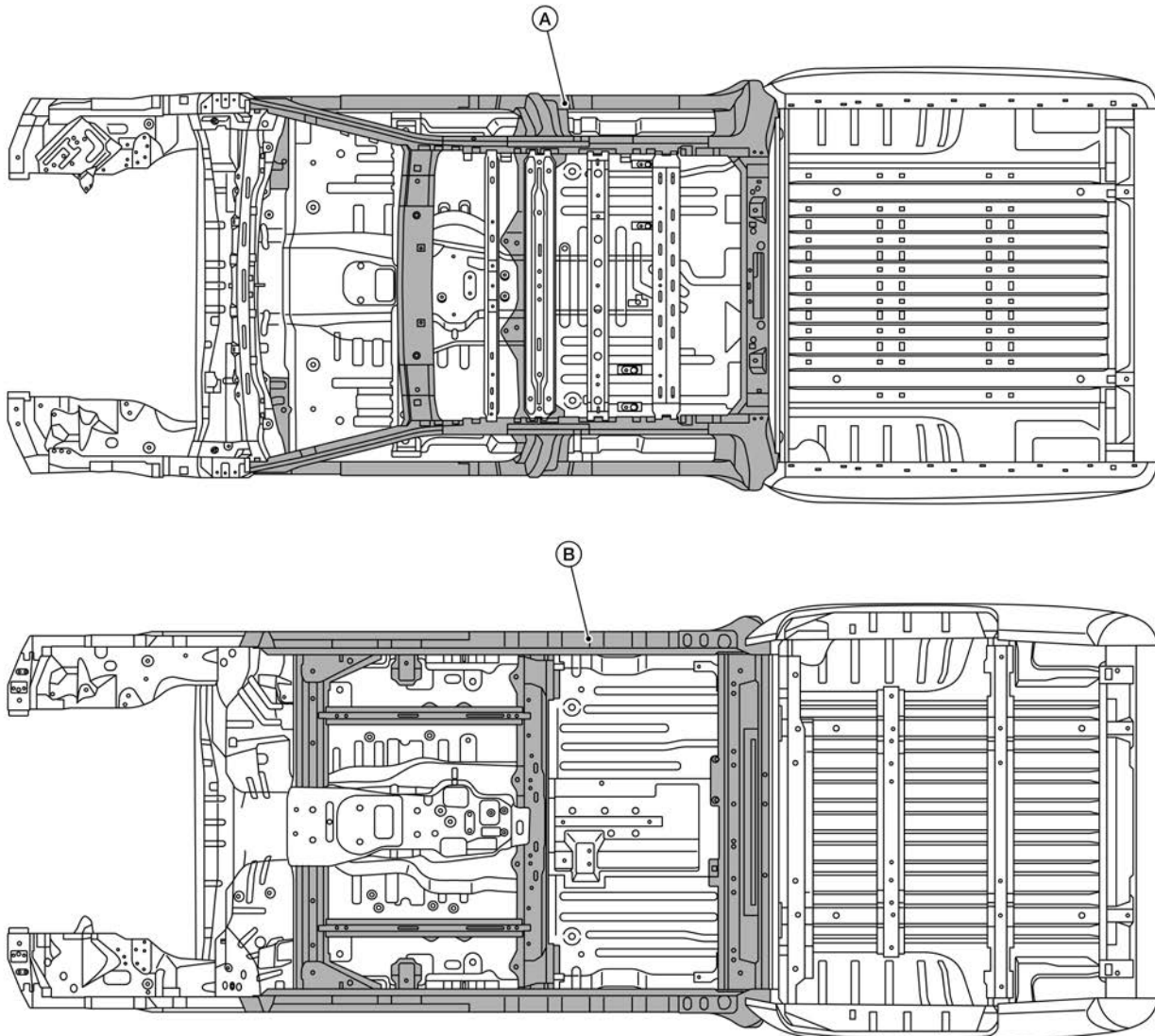


TGAZIA0280ZZ

HIGH STRENGTH STEEL LOCATIONS

[DESIGN REQUIREMENTS FOR MODIFICATIONS]

Floor



TGAZIA0281ZZ

A: Top view

B: Underside view

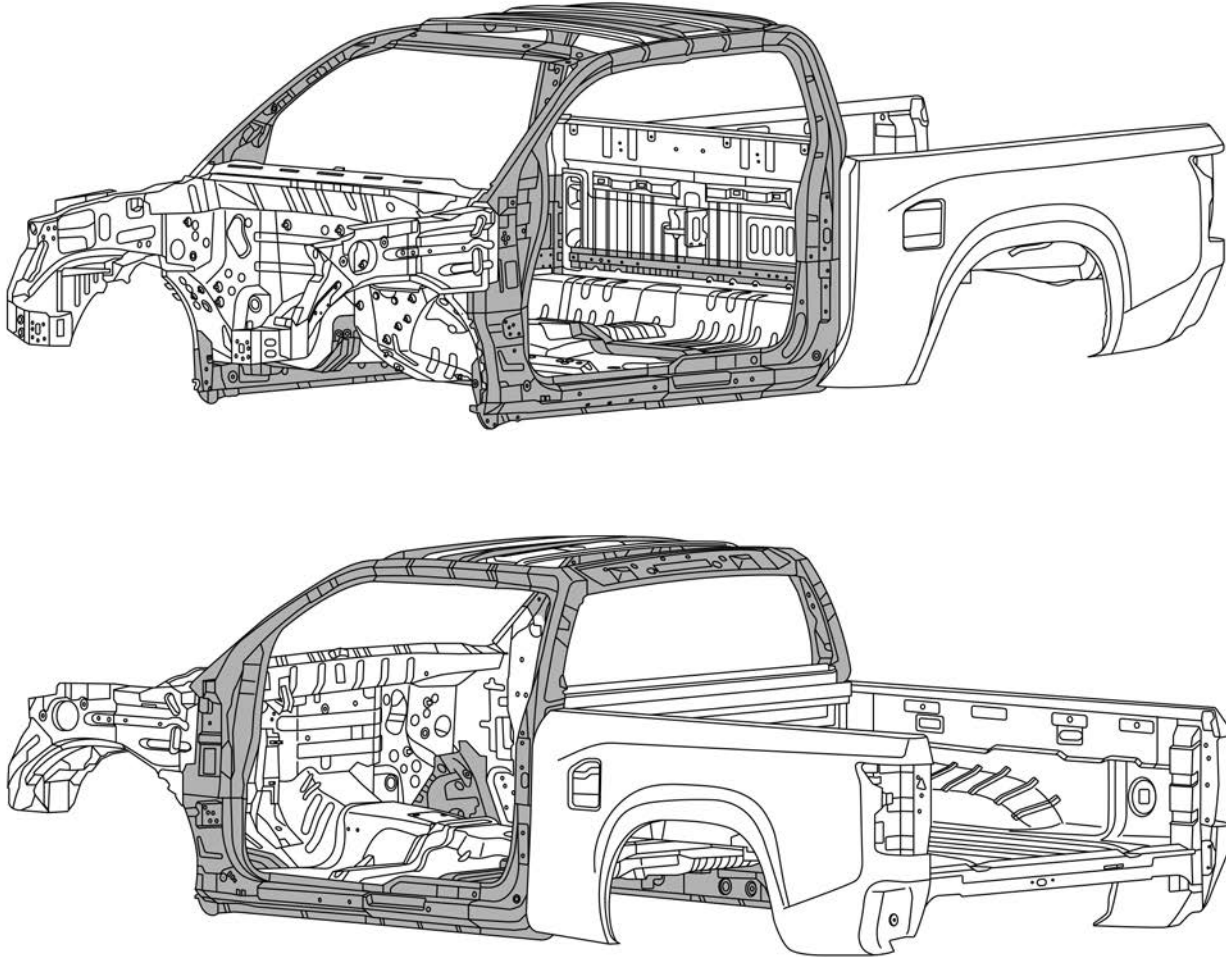
HIGH STRENGTH STEEL LOCATIONS

[DESIGN REQUIREMENTS FOR MODIFICATIONS]

High Strength Steel Locations — King Cab®

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

Cab and Bed area

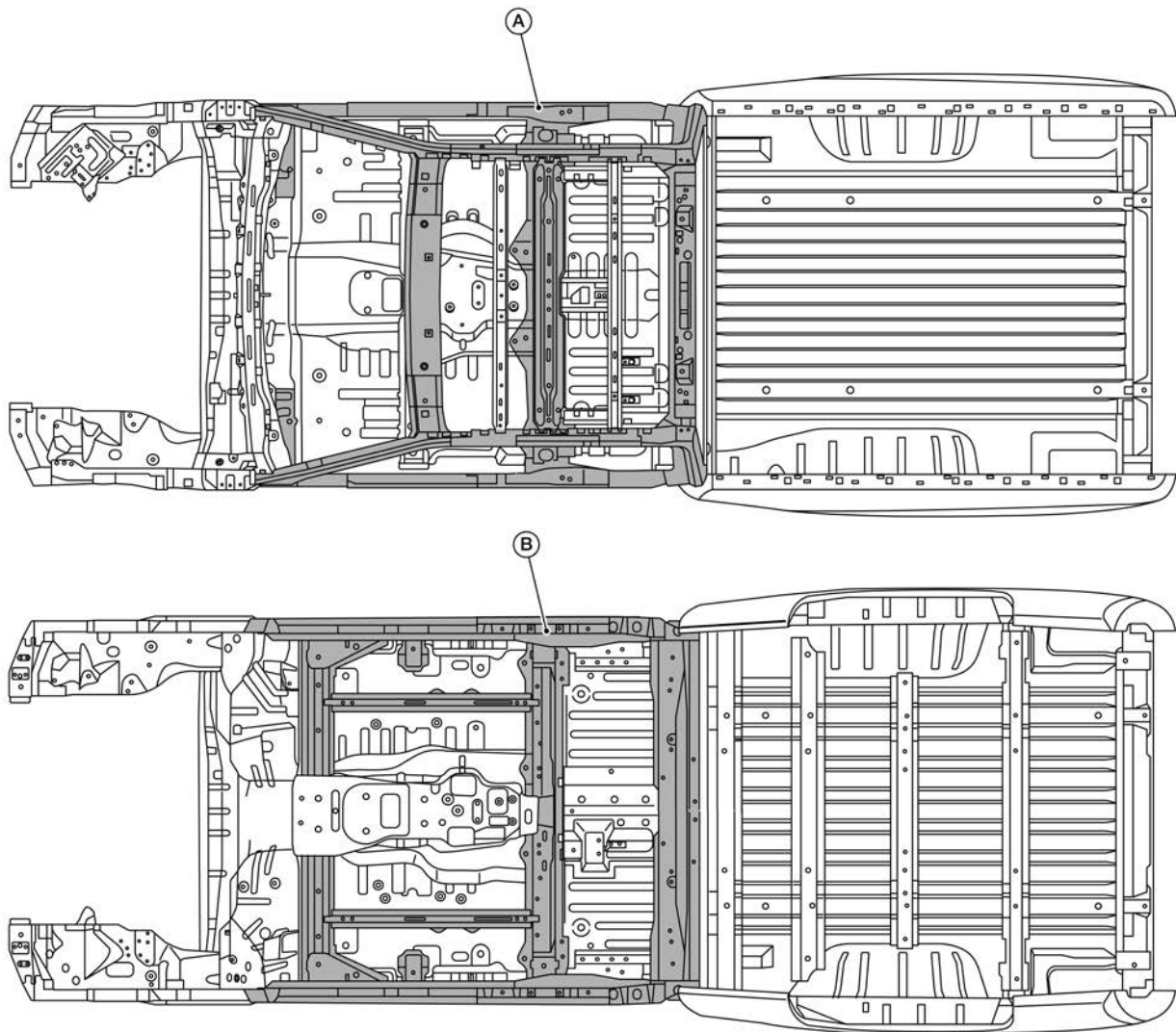


TGAZIA0218ZZ

HIGH STRENGTH STEEL LOCATIONS

[DESIGN REQUIREMENTS FOR MODIFICATIONS]

Floor



TGAZIA0290ZZ

A: Top view

B: Underside view

WELDING



WARNING:

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

Refer to Service Manual BRM section for welding information.

VEHICLE INTERIOR

Modifications in the Vehicle Interior

General



WARNING:

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 modifications to the body that affect the acoustic and thermal insulation, the vehicle should be returned to a state that meets or exceeds its originally manufactured condition.

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.

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 \(CG\) \(pg. 55\)](#)

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

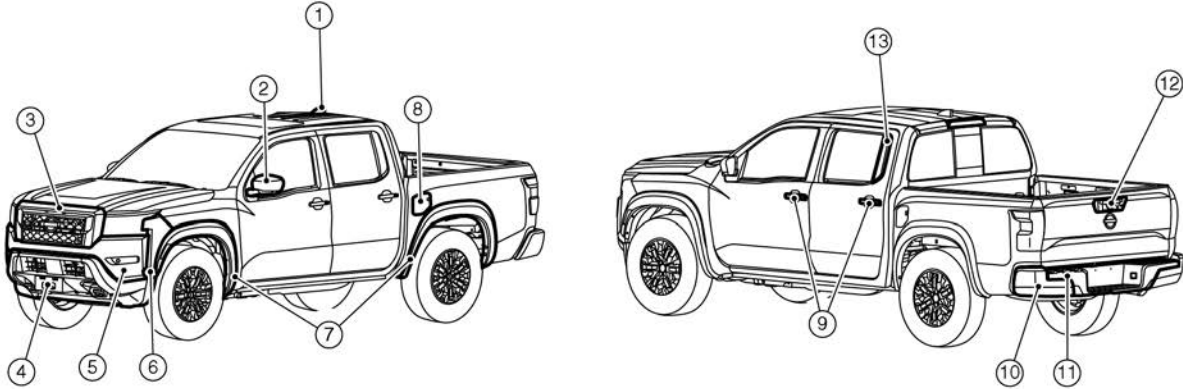
[DESIGN REQUIREMENTS FOR MODIFICATIONS]

PAINT WORK

Crew Cab — 2022 Model Year

NOTE:

Standard wheelbase shown; long wheelbase similar.



TGAZIA0228ZZ

Component			Color code	A20	DAQ	HAL	KAD	KBY	KH3	NBY	QAK	RAY
			Description	Red	Green	Beige	Gray	Gray	Black	Red	White	Blue
			Paint type	2S	2P	2PM	2M	2P	2S	3PM	2S	2PM
			Hard clear coat	x	x	x	x	x	x	x	x	x
1.	Antenna base		Material color	–	–	–	–	–	–	–	–	–
2.	Door mirror	Housing	Material color	–	–	–	–	–	–	–	–	–
		Lower finisher	Material color	–	–	–	–	–	–	–	–	–
		Finisher	Body color (if so equipped)	A20	DAQ	HAL	KAD	KBY	KH3	NBY	QAK	RAY
			Material color (if so equipped)	–	–	–	–	–	–	–	–	–
3.	Front grille	Inner	Gray (if so equipped)	KAD	KAD	KAD	KAD	KAD	KAD	KAD	KAD	KAD
			Material color (if so equipped)	–	–	–	–	–	–	–	–	–
		Outer	Body color (if so equipped)	A20	DAQ	HAL	KAD	KBY	KH3	NBY	QAK	RAY
			Gray (if so equipped)	–	–	–	–	–	–	–	–	–
			Material color (if so equipped)	–	–	–	–	–	–	–	–	–

PAINT WORK

[DESIGN REQUIREMENTS FOR MODIFICATIONS]

Component			Color code	A20	DAQ	HAL	KAD	KBY	KH3	NBY	QAK	RAY
			Description	Red	Green	Beige	Gray	Gray	Black	Red	White	Blue
			Paint type	2S	2P	2PM	2M	2P	2S	3PM	2S	2PM
			Hard clear coat	X	X	X	X	X	X	X	X	X
4.	Front air spoiler		Material color	-	-	-	-	-	-	-	-	-
	Tow hook finisher		Material color	-	-	-	-	-	-	-	-	-
	Front bumper lower	Lower grille	Material color	-	-	-	-	-	-	-	-	-
		Grille surround	Gray (if so equipped)	-	-	-	-	-	-	-	-	-
			Gray (if so equipped)	KAD	KAD	KAD	KAD	KAD	KAD	KAD	KAD	KAD
			Material color (if so equipped)	-	-	-	-	-	-	-	-	-
		Skid Plate	Gray (if so equipped)	KAD	KAD	KAD	KAD	KAD	KAD	KAD	KAD	KAD
			Material color (if so equipped)	-	-	-	-	-	-	-	-	-
			Silver (if so equipped)	K23	K23	K23	K23	K23	K23	K23	K23	K23
5.		Front bumper upper		Body color	A20	DAQ	HAL	KAD	KBY	KH3	NBY	QAK
6.	Front bumper side		Body color	A20	DAQ	HAL	KAD	KBY	KH3	NBY	QAK	RAY
7.	Over fender (if so equipped)		Material color	-	-	-	-	-	-	-	-	-
8.	Fuel filler lid		Body color	A20	DAQ	HAL	KAD	KBY	KH3	NBY	QAK	RAY
9.	Door outside handle		Body color (if so equipped)	A20	DAQ	HAL	KAD	KBY	KH3	NBY	QAK	RAY
			Material color (if so equipped)	-	-	-	-	-	-	-	-	-
10.	Rear bumper lower finisher		Body color (if so equipped)	A20	DAQ	HAL	KAD	KBY	KH3	NBY	QAK	RAY
			Material color (if so equipped)	-	-	-	-	-	-	-	-	-
11.	Rear bumper finisher (center)		Material color	-	-	-	-	-	-	-	-	-
12.	Tailgate handle		Material color	-	-	-	-	-	-	-	-	-
13.	Rear door sash molding rear finisher		Material color	-	-	-	-	-	-	-	-	-

NOTE:

- **2S: 2 coat solid**
- **2M: 2 coat metallic**
- **2P: 2 coat pearl**
- **2PM: 2 coat pearl metallic**
- **3PM: 3 coat pearl metallic**

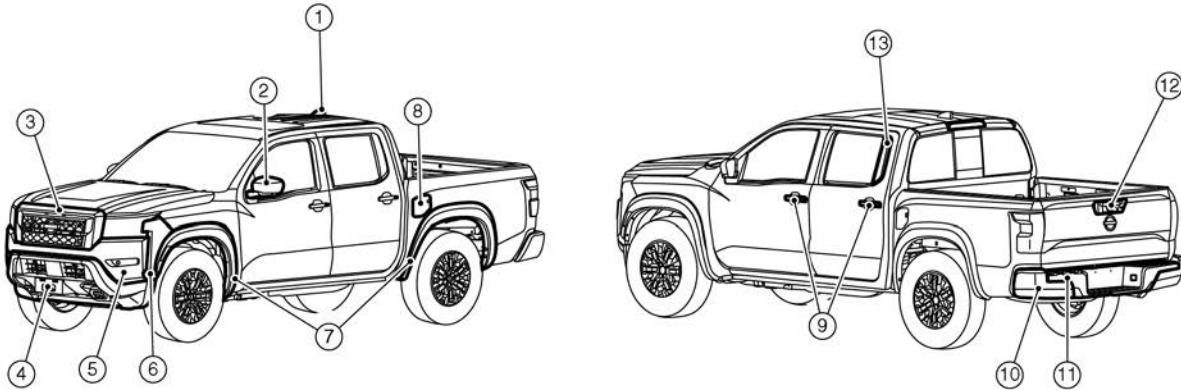
PAINT WORK

[DESIGN REQUIREMENTS FOR MODIFICATIONS]

Crew Cab — 2023 Model Year

NOTE:

Standard wheelbase shown; long wheelbase similar.



TGAZIA0228ZZ

Component			Color code	A20	DAQ	HAL	KAD	KBY	KH3	NBY	QAK	RAY
			Description	Red	Green	Beige	Gray	Gray	Black	Red	White	Blue
			Paint type	2S	2P	2PM	2M	2P	2S	3PM	2S	2PM
			Hard clear coat	x	x	x	x	x	x	x	x	x
1.	Antenna base		Material color	-	-	-	-	-	-	-	-	-
2.	Door mirror	Housing	Material color	-	-	-	-	-	-	-	-	-
		Lower finisher	Material color	-	-	-	-	-	-	-	-	-
		Finisher	Body color (if so equipped)	A20	DAQ	HAL	KAD	KBY	KH3	NBY	QAK	RAY
			Material color (if so equipped)	-	-	-	-	-	-	-	-	-
			Midnight Edition (if so equipped)	-	-	-	KH3	-	KH3	-	KH3	-
3.	Front grille	Inner	Gray (if so equipped)	KAD	KAD	KAD	KAD	KAD	KAD	KAD	KAD	KAD
			Material color (if so equipped)	-	-	-	-	-	-	-	-	-
		Outer	Body color (if so equipped)	A20	DAQ	HAL	KAD	KBY	KH3	NBY	QAK	RAY
			Gray (if so equipped)	-	-	-	-	-	-	-	-	-
			Material color (if so equipped)	-	-	-	-	-	-	-	-	-
			Midnight Edition (if so equipped)	-	-	-	KH3	-	KH3	-	KH3	-

PAINT WORK

[DESIGN REQUIREMENTS FOR MODIFICATIONS]

Component			Color code	A20	DAQ	HAL	KAD	KBY	KH3	NBY	QAK	RAY
			Description	Red	Green	Beige	Gray	Gray	Black	Red	White	Blue
			Paint type	2S	2P	2PM	2M	2P	2S	3PM	2S	2PM
			Hard clear coat	x	x	x	x	x	x	x	x	x
4.	Front air spoiler		Material color	–	–	–	–	–	–	–	–	–
	Tow hook finisher		Material color	–	–	–	–	–	–	–	–	–
	Front bumper lower	Lower grille	Material color	–	–	–	–	–	–	–	–	–
		Grille surround	Gray (if so equipped)	–	–	–	–	–	–	–	–	–
			Gray (if so equipped)	KAD	KAD	KAD	KAD	KAD	KAD	KAD	KAD	KAD
			Material color (if so equipped)	–	–	–	–	–	–	–	–	–
			Midnight Edition (if so equipped)	–	–	–	KH3	–	KH3	–	KH3	–
		Skid Plate	Gray (if so equipped)	KAD	KAD	KAD	KAD	KAD	KAD	KAD	KAD	KAD
			Material color (if so equipped)	–	–	–	–	–	–	–	–	–
			Silver (if so equipped)	K23	K23	K23	K23	K23	K23	K23	K23	K23
5.	Front bumper upper		Body color	A20	DAQ	HAL	KAD	KBY	KH3	NBY	QAK	RAY
6.	Front bumper side		Body color	A20	DAQ	HAL	KAD	KBY	KH3	NBY	QAK	RAY
7.	Over fender (if so equipped)		Material color	–	–	–	–	–	–	–	–	–
8.	Fuel filler lid		Body color	A20	DAQ	HAL	KAD	KBY	KH3	NBY	QAK	RAY
9.	Door outside handle		Body color (if so equipped)	A20	DAQ	HAL	KAD	KBY	KH3	NBY	QAK	RAY
			Material color (if so equipped)	–	–	–	–	–	–	–	–	–
10.	Rear bumper lower finisher		Body color (if so equipped)	A20	DAQ	HAL	KAD	KBY	KH3	NBY	QAK	RAY
			Material color (if so equipped)	–	–	–	–	–	–	–	–	–
11.	Rear bumper finisher (center)		Material color	–	–	–	–	–	–	–	–	–
12.	Tailgate handle		Material color	–	–	–	–	–	–	–	–	–
13.	Rear door sash molding rear finisher		Material color	–	–	–	–	–	–	–	–	–

NOTE:

- **2S: 2 coat solid**
- **2M: 2 coat metallic**
- **2P: 2 coat pearl**
- **2PM: 2 coat pearl metallic**
- **3PM: 3 coat pearl metallic**

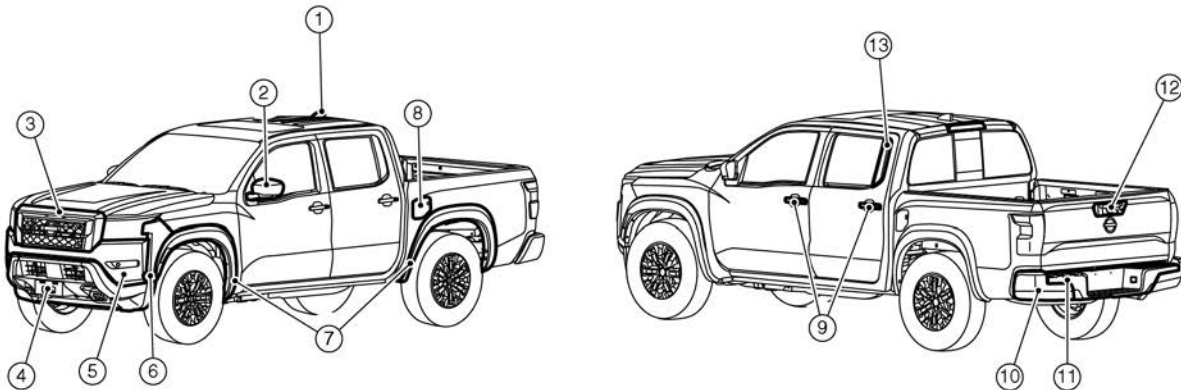
PAINT WORK

[DESIGN REQUIREMENTS FOR MODIFICATIONS]

Crew Cab — 2024 Model Year

NOTE:

Standard wheelbase shown; long wheelbase similar.



TGAZIA0228ZZ

Component			Color code	A20	DAQ	HAL	KAD	KBY	KH3	NBY	QAK	RCF
			Description	Red	Green	Beige	Gray	Gray	Black	Red	White	Blue
			Paint type	2S	2P	2PM	2M	2P	2S	3PM	2S	2PM
			Hard clear coat	x	x	x	x	x	x	x	x	x
1.	Antenna base		Material color	-	-	-	-	-	-	-	-	-
2.	Door mirror	Housing	Material color	-	-	-	-	-	-	-	-	-
		Lower finisher	Material color	-	-	-	-	-	-	-	-	-
		Finisher	Body color (if so equipped)	A20	DAQ	HAL	KAD	KBY	KH3	NBY	QAK	RCF
			Material color (if so equipped)	-	-	-	-	-	-	-	-	-
3.	Front grille	Inner	Gray (if so equipped)	KAD	KAD	KAD	KAD	KAD	KAD	KAD	KAD	KAD
			Material color (if so equipped)	-	-	-	-	-	-	-	-	-
		Outer	Body color (if so equipped)	A20	DAQ	HAL	KAD	KBY	KH3	NBY	QAK	RCF
			Gray (if so equipped)	-	-	-	-	-	-	-	-	-
			Material color (if so equipped)	-	-	-	-	-	-	-	-	-

PAINT WORK

[DESIGN REQUIREMENTS FOR MODIFICATIONS]

Component			Color code	A20	DAQ	HAL	KAD	KBY	KH3	NBY	QAK	RCF
			Description	Red	Green	Beige	Gray	Gray	Black	Red	White	Blue
			Paint type	2S	2P	2PM	2M	2P	2S	3PM	2S	2PM
			Hard clear coat	X	X	X	X	X	X	X	X	X
4.	Front air spoiler		Material color	–	–	–	–	–	–	–	–	–
	Tow hook finisher		Material color	–	–	–	–	–	–	–	–	–
	Front bumper lower	Lower grille	Material color	–	–	–	–	–	–	–	–	–
		Grille surround	Gray (if so equipped)	–	–	–	–	–	–	–	–	–
			Gray (if so equipped)	KAD	KAD	KAD	KAD	KAD	KAD	KAD	KAD	KAD
			Material color (if so equipped)	–	–	–	–	–	–	–	–	–
		Skid Plate	Gray (if so equipped)	KAD	KAD	KAD	KAD	KAD	KAD	KAD	KAD	KAD
			Material color (if so equipped)	–	–	–	–	–	–	–	–	–
			Silver (if so equipped)	K23	K23	K23	K23	K23	K23	K23	K23	K23
5.		Front bumper upper		Body color	A20	DAQ	HAL	KAD	KBY	KH3	NBY	QAK
6.	Front bumper side		Body color	A20	DAQ	HAL	KAD	KBY	KH3	NBY	QAK	RCF
7.	Over fender (if so equipped)		Material color	–	–	–	–	–	–	–	–	–
8.	Fuel filler lid		Body color	A20	DAQ	HAL	KAD	KBY	KH3	NBY	QAK	RCF
9.	Door outside handle		Body color (if so equipped)	A20	DAQ	HAL	KAD	KBY	KH3	NBY	QAK	RCF
			Material color (if so equipped)	–	–	–	–	–	–	–	–	–
10.	Rear bumper lower finisher		Body color (if so equipped)	A20	DAQ	HAL	KAD	KBY	KH3	NBY	QAK	RCF
			Material color (if so equipped)	–	–	–	–	–	–	–	–	–
11.	Rear bumper finisher (center)		Material color	–	–	–	–	–	–	–	–	–
12.	Tailgate handle		Material color	–	–	–	–	–	–	–	–	–
13.	Rear door sash molding rear finisher		Material color	–	–	–	–	–	–	–	–	–

NOTE:

- **2S: 2 coat solid**
- **2M: 2 coat metallic**
- **2P: 2 coat pearl**
- **2PM: 2 coat pearl metallic**
- **3PM: 3 coat pearl metallic**

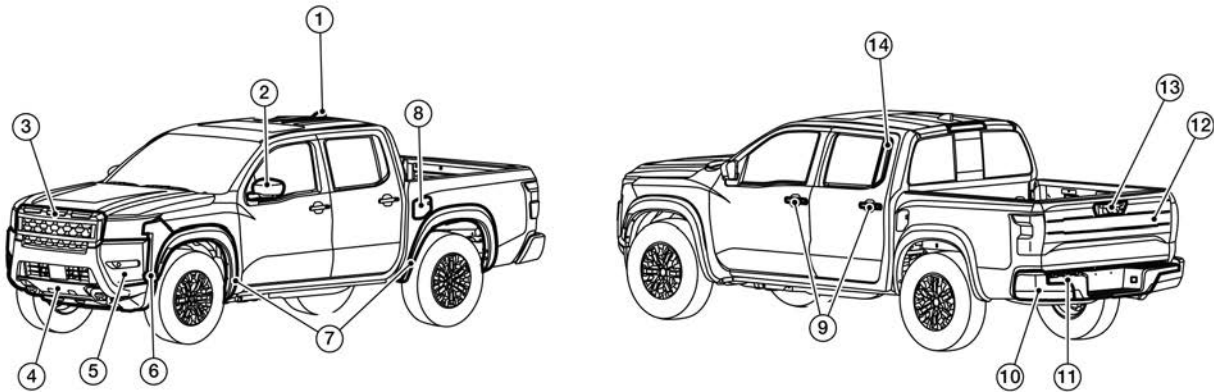
PAINT WORK

[DESIGN REQUIREMENTS FOR MODIFICATIONS]

Crew Cab — Starting 2025 Model Year

NOTE:

Standard wheelbase shown; long wheelbase similar.



TGAAKIA0013ZZ

Component			Color code	A20	DAQ	ECG	KAD	KBY	KH3	NBY	QAK	RCF
			Description	Red	Green	Orange	Gray	Gray	Black	Red	White	Blue
			Paint type	2S	2P	2S	2M	2P	2S	3PM	2S	2PM
			Hard clear coat	x	x	x	x	x	x	x	x	x
1.	Antenna base		Material color	–	–	–	–	–	–	–	–	–
2.	Door mirror	Housing	Material color	–	–	–	–	–	–	–	–	–
		Lower finisher	Material color	–	–	–	–	–	–	–	–	–
		Finisher	Body color (if so equipped)	A20	DAQ	ECG	KAD	KBY	KH3	NBY	QAK	RCF
			Material color (if so equipped)	–	–	–	–	–	–	–	–	–
3.	Front grille	Inner	Gray (if so equipped)	KAD	KAD	KAD	KAD	KAD	KAD	KAD	KAD	KAD
			Material color (if so equipped)	–	–	–	–	–	–	–	–	–
		Outer	Body color (if so equipped)	A20	DAQ	ECG	KAD	KBY	KH3	NBY	QAK	RCF
			Gray (if so equipped)	–	–	–	–	–	–	–	–	–
			Material color (if so equipped)	–	–	–	–	–	–	–	–	–

PAINT WORK

[DESIGN REQUIREMENTS FOR MODIFICATIONS]

Component			Color code	A20	DAQ	ECG	KAD	KBY	KH3	NBY	QAK	RCF
			Description	Red	Green	Orange	Gray	Gray	Black	Red	White	Blue
			Paint type	2S	2P	2S	2M	2P	2S	3PM	2S	2PM
			Hard clear coat	X	X	X	X	X	X	X	X	X
4.	Front air spoiler		Material color	-	-	-	-	-	-	-	-	-
	Tow hook finisher		Material color	-	-	-	-	-	-	-	-	-
	Front bumper lower	Lower grille	Material color	-	-	-	-	-	-	-	-	-
		Grille surround	Gray (if so equipped)	-	-	-	-	-	-	-	-	-
			Gray (if so equipped)	KAD	KAD	KAD	KAD	KAD	KAD	KAD	KAD	KAD
			Material color (if so equipped)	-	-	-	-	-	-	-	-	-
		Skid Plate	Gray (if so equipped)	KAD	KAD	KAD	KAD	KAD	KAD	KAD	KAD	KAD
			Material color (if so equipped)	-	-	-	-	-	-	-	-	-
			Silver (if so equipped)	K23	K23	K23	K23	K23	K23	K23	K23	K23
5.		Front bumper upper		Body color	A20	DAQ	ECG	KAD	KBY	KH3	NBY	QAK
6.	Front bumper side		Body color	A20	DAQ	ECG	KAD	KBY	KH3	NBY	QAK	RCF
7.	Over fender (if so equipped)		Material color	-	-	-	-	-	-	-	-	-
8.	Fuel filler lid		Body color	A20	DAQ	ECG	KAD	KBY	KH3	NBY	QAK	RCF
9.	Door outside handle		Body color (if so equipped)	A20	DAQ	ECG	KAD	KBY	KH3	NBY	QAK	RCF
			Material color (if so equipped)	-	-	-	-	-	-	-	-	-
10.	Rear bumper lower finisher		Body color (if so equipped)	A20	DAQ	ECG	KAD	KBY	KH3	NBY	QAK	RCF
			Material color (if so equipped)	-	-	-	-	-	-	-	-	-
11.	Rear bumper finisher (center)		Material color	-	-	-	-	-	-	-	-	-
12.	Tailgate handle		Material color	-	-	-	-	-	-	-	-	-
13.	Rear door sash molding rear finisher		Material color	-	-	-	-	-	-	-	-	-

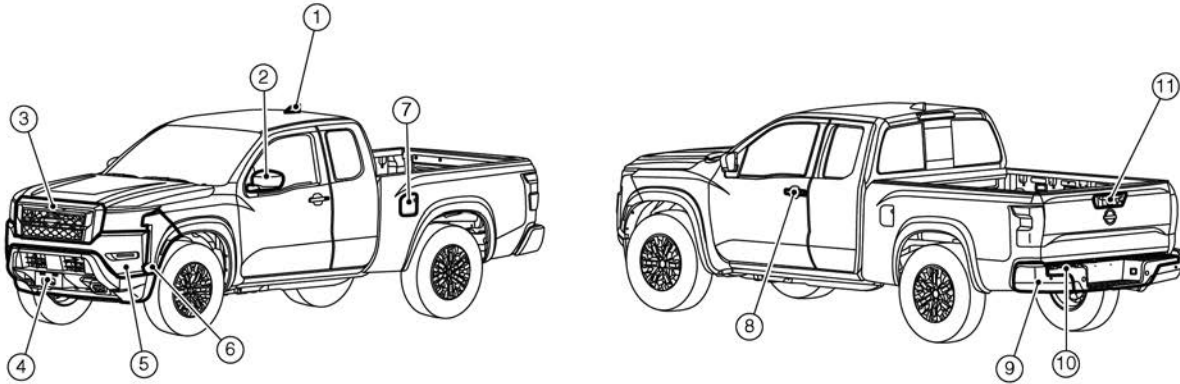
NOTE:

- **2S: 2 coat solid**
- **2M: 2 coat metallic**
- **2P: 2 coat pearl**
- **2PM: 2 coat pearl metallic**
- **3PM: 3 coat pearl metallic**

PAINT WORK

[DESIGN REQUIREMENTS FOR MODIFICATIONS]

King Cab® — 2022–2023 Model Years



TGAZIA0301ZZ

Component			Color code	A20	DAQ	HAL	KAD	KBY	KH3	NBY	QAK	RAY
			Description	Red	Green	Beige	Gray	Gray	Black	Red	White	Blue
			Paint type	2S	2P	2PM	2M	2P	2S	3PM	2S	2PM
			Hard clear coat	X	X	X	X	X	X	X	X	X
1.	Antenna base		Material color	–	–	–	–	–	–	–	–	–
2.	Door mirror	Housing	Material color	–	–	–	–	–	–	–	–	–
		Lower finisher	Material color	–	–	–	–	–	–	–	–	–
		Finisher	Body color (if so equipped)	A20	DAQ	HAL	KAD	KBY	KH3	NBY	QAK	RAY
			Material color (if so equipped)	–	–	–	–	–	–	–	–	–
3.	Front grille	Inner	Gray (if so equipped)	KAD	KAD	KAD	KAD	KAD	KAD	KAD	KAD	KAD
			Material color (if so equipped)	–	–	–	–	–	–	–	–	–
		Outer	Body color (if so equipped)	A20	DAQ	HAL	KAD	KBY	KH3	NBY	QAK	RAY
			Gray (if so equipped)	–	–	–	–	–	–	–	–	–
			Material color (if so equipped)	–	–	–	–	–	–	–	–	–

PAINT WORK

[DESIGN REQUIREMENTS FOR MODIFICATIONS]

Component			Color code	A20	DAQ	HAL	KAD	KBY	KH3	NBY	QAK	RAY
			Description	Red	Green	Beige	Gray	Gray	Black	Red	White	Blue
			Paint type	2S	2P	2PM	2M	2P	2S	3PM	2S	2PM
			Hard clear coat	x	x	x	x	x	x	x	x	x
4.	Front air spoiler		Material color	-	-	-	-	-	-	-	-	-
	Tow hook finisher		Material color	-	-	-	-	-	-	-	-	-
	Front bumper lower	Lower grille	Material color	-	-	-	-	-	-	-	-	-
		Grille surround	Gray (if so equipped)	-	-	-	-	-	-	-	-	-
			Gray (if so equipped)	KAD	KAD	KAD	KAD	KAD	KAD	KAD	KAD	KAD
			Material color (if so equipped)	-	-	-	-	-	-	-	-	-
		Skid Plate	Gray (if so equipped)	KAD	KAD	KAD	KAD	KAD	KAD	KAD	KAD	KAD
			Material color (if so equipped)	-	-	-	-	-	-	-	-	-
			Silver (if so equipped)	K23	K23	K23	K23	K23	K23	K23	K23	K23
5.		Front bumper upper		Body color	A20	DAQ	HAL	KAD	KBY	KH3	NBY	QAK
6.	Front bumper side		Body color	A20	DAQ	HAL	KAD	KBY	KH3	NBY	QAK	RAY
7.	Fuel filler lid		Body color	A20	DAQ	HAL	KAD	KBY	KH3	NBY	QAK	RAY
8.	Door outside handle		Body color (if so equipped)	A20	DAQ	HAL	KAD	KBY	KH3	NBY	QAK	RAY
			Material color (if so equipped)	-	-	-	-	-	-	-	-	-
9.	Rear bumper lower finisher		Body color (if so equipped)	A20	DAQ	HAL	KAD	KBY	KH3	NBY	QAK	RAY
			Material color (if so equipped)	-	-	-	-	-	-	-	-	-
10.	Rear bumper finisher (center)		Material color	-	-	-	-	-	-	-	-	-
11.	Tailgate handle		Material color	-	-	-	-	-	-	-	-	-

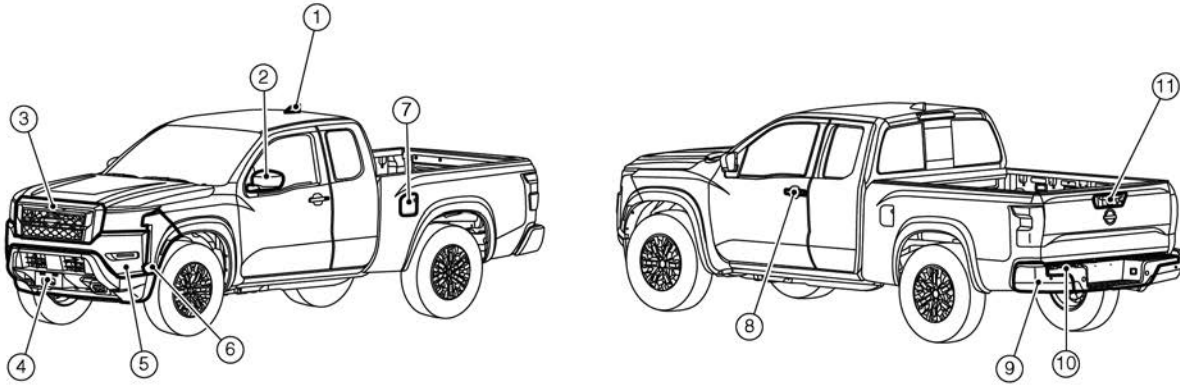
NOTE:

- **2S: 2 coat solid**
- **2M: 2 coat metallic**
- **2P: 2 coat pearl**
- **2PM: 2 coat pearl metallic**
- **3PM: 3 coat pearl metallic**

PAINT WORK

[DESIGN REQUIREMENTS FOR MODIFICATIONS]

King Cab® — 2024 Model Year



TGAZIA0301ZZ

Component			Color code	A20	DAQ	HAL	KAD	KBY	KH3	NBY	QAK	RCF
			Description	Red	Green	Beige	Gray	Gray	Black	Red	White	Blue
			Paint type	2S	2P	2PM	2M	2P	2S	3PM	2S	2PM
			Hard clear coat	X	X	X	X	X	X	X	X	X
1.	Antenna base		Material color	-	-	-	-	-	-	-	-	-
2.	Door mirror	Housing	Material color	-	-	-	-	-	-	-	-	-
		Lower finisher	Material color	-	-	-	-	-	-	-	-	-
		Finisher	Body color (if so equipped)	A20	DAQ	HAL	KAD	KBY	KH3	NBY	QAK	RCF
			Material color (if so equipped)	-	-	-	-	-	-	-	-	-
3.	Front grille	Inner	Gray (if so equipped)	KAD	KAD	KAD	KAD	KAD	KAD	KAD	KAD	KAD
			Material color (if so equipped)	-	-	-	-	-	-	-	-	-
		Outer	Body color (if so equipped)	A20	DAQ	HAL	KAD	KBY	KH3	NBY	QAK	RCF
			Gray (if so equipped)	-	-	-	-	-	-	-	-	-
			Material color (if so equipped)	-	-	-	-	-	-	-	-	-

PAINT WORK

[DESIGN REQUIREMENTS FOR MODIFICATIONS]

Component			Color code	A20	DAQ	HAL	KAD	KBY	KH3	NBY	QAK	RCF
			Description	Red	Green	Beige	Gray	Gray	Black	Red	White	Blue
			Paint type	2S	2P	2PM	2M	2P	2S	3PM	2S	2PM
			Hard clear coat	x	x	x	x	x	x	x	x	x
4.	Front air spoiler		Material color	-	-	-	-	-	-	-	-	-
	Tow hook finisher		Material color	-	-	-	-	-	-	-	-	-
	Front bumper lower	Lower grille	Material color	-	-	-	-	-	-	-	-	-
		Grille surround	Gray (if so equipped)	-	-	-	-	-	-	-	-	-
			Gray (if so equipped)	KAD	KAD	KAD	KAD	KAD	KAD	KAD	KAD	KAD
			Material color (if so equipped)	-	-	-	-	-	-	-	-	-
		Skid Plate	Gray (if so equipped)	KAD	KAD	KAD	KAD	KAD	KAD	KAD	KAD	KAD
			Material color (if so equipped)	-	-	-	-	-	-	-	-	-
			Silver (if so equipped)	K23	K23	K23	K23	K23	K23	K23	K23	K23
5.		Front bumper upper		Body color	A20	DAQ	HAL	KAD	KBY	KH3	NBY	QAK
6.	Front bumper side		Body color	A20	DAQ	HAL	KAD	KBY	KH3	NBY	QAK	RCF
7.	Fuel filler lid		Body color	A20	DAQ	HAL	KAD	KBY	KH3	NBY	QAK	RCF
8.	Door outside handle		Body color (if so equipped)	A20	DAQ	HAL	KAD	KBY	KH3	NBY	QAK	RCF
			Material color (if so equipped)	-	-	-	-	-	-	-	-	-
9.	Rear bumper lower finisher		Body color (if so equipped)	A20	DAQ	HAL	KAD	KBY	KH3	NBY	QAK	RCF
			Material color (if so equipped)	-	-	-	-	-	-	-	-	-
10.	Rear bumper finisher (center)		Material color	-	-	-	-	-	-	-	-	-
11.	Tailgate handle		Material color	-	-	-	-	-	-	-	-	-

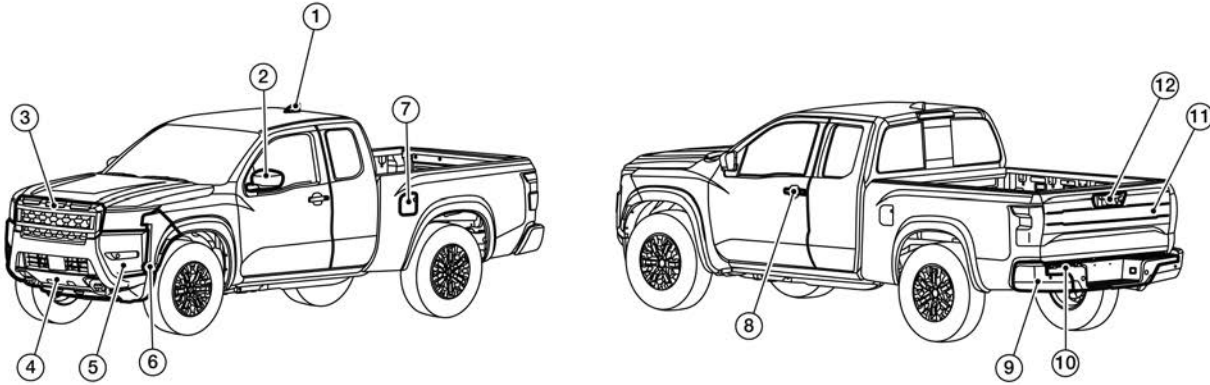
NOTE:

- **2S: 2 coat solid**
- **2M: 2 coat metallic**
- **2P: 2 coat pearl**
- **2PM: 2 coat pearl metallic**
- **3PM: 3 coat pearl metallic**

PAINT WORK

[DESIGN REQUIREMENTS FOR MODIFICATIONS]

King Cab® — Starting 2025 Model Year



TGAAKIA0014ZZ

Component			Color code	A20	DAQ	ECG	KAD	KBY	KH3	NBY	QAK	RCF
			Description	Red	Green	Orange	Gray	Gray	Black	Red	White	Blue
			Paint type	2S	2P	2S	2M	2P	2S	3PM	2S	2PM
			Hard clear coat	x	x	x	x	x	x	x	x	x
1.	Antenna base		Material color	–	–	–	–	–	–	–	–	–
2.	Door mirror	Housing	Material color	–	–	–	–	–	–	–	–	–
		Lower finisher	Material color	–	–	–	–	–	–	–	–	–
		Finisher	Body color (if so equipped)	A20	DAQ	ECG	KAD	KBY	KH3	NBY	QAK	RCF
			Material color (if so equipped)	–	–	–	–	–	–	–	–	–
3.	Front grille	Inner	Gray (if so equipped)	KAD	KAD	KAD	KAD	KAD	KAD	KAD	KAD	KAD
			Material color (if so equipped)	–	–	–	–	–	–	–	–	–
		Outer	Body color (if so equipped)	A20	DAQ	ECG	KAD	KBY	KH3	NBY	QAK	RCF
			Gray (if so equipped)	–	–	–	–	–	–	–	–	–
			Material color (if so equipped)	–	–	–	–	–	–	–	–	–

PAINT WORK

[DESIGN REQUIREMENTS FOR MODIFICATIONS]

Component			Color code	A20	DAQ	ECG	KAD	KBY	KH3	NBY	QAK	RCF
			Description	Red	Green	Orange	Gray	Gray	Black	Red	White	Blue
			Paint type	2S	2P	2S	2M	2P	2S	3PM	2S	2PM
			Hard clear coat	x	x	x	x	x	x	x	x	x
4.	Front air spoiler		Material color	—	—	—	—	—	—	—	—	—
	Tow hook finisher		Material color	—	—	—	—	—	—	—	—	—
	Front bumper lower	Lower grille	Material color	—	—	—	—	—	—	—	—	—
		Grille surround	Gray (if so equipped)	—	—	—	—	—	—	—	—	—
			Gray (if so equipped)	KAD	KAD	KAD	KAD	KAD	KAD	KAD	KAD	KAD
			Material color (if so equipped)	—	—	—	—	—	—	—	—	—
		Skid Plate	Gray (if so equipped)	KAD	KAD	KAD	KAD	KAD	KAD	KAD	KAD	KAD
			Material color (if so equipped)	—	—	—	—	—	—	—	—	—
			Silver (if so equipped)	K23	K23	K23	K23	K23	K23	K23	K23	K23
5.		Front bumper upper		Body color	A20	DAQ	ECG	KAD	KBY	KH3	NBY	QAK
6.	Front bumper side		Body color	A20	DAQ	ECG	KAD	KBY	KH3	NBY	QAK	RCF
7.	Fuel filler lid		Body color	A20	DAQ	ECG	KAD	KBY	KH3	NBY	QAK	RCF
8.	Door outside handle		Body color (if so equipped)	A20	DAQ	ECG	KAD	KBY	KH3	NBY	QAK	RCF
			Material color (if so equipped)	—	—	—	—	—	—	—	—	—
9.	Rear bumper lower finisher		Body color (if so equipped)	A20	DAQ	ECG	KAD	KBY	KH3	NBY	QAK	RCF
			Material color (if so equipped)	—	—	—	—	—	—	—	—	—
10.	Rear bumper finisher (center)		Material color	—	—	—	—	—	—	—	—	—
11.	Tailgate handle		Material color	—	—	—	—	—	—	—	—	—

NOTE:

- **2S: 2 coat solid**
- **2M: 2 coat metallic**
- **2P: 2 coat pearl**
- **2PM: 2 coat pearl metallic**
- **3PM: 3 coat pearl metallic**

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
Pretreatment (Chemfos)	CF700	PPG Refinish www.ppg.com Technical information: 1-800-647-6050 Safety information: USA 1-412-434-5415 Canada 1-514 645-1320 Product safety/MSDS information: 1-412-492-5555
E-coat/ED	ED6465M	
Air-dry Under body coating	AB2230N1	EFTEC North America, L.L.C. www.eftec.com 24 hour emergency 1-888-853-1758 Emergency transport 1-800-424-9300
Stone guard (PVC)	EF6287	
Hi-Perf LASD	AISIN 550	Aisin Chemical www.aisinworld.com
Structural adhesive	73305 (regular), 73305GB (HEM with glass bond)	Dow Chemical Co. www.dow.com 24 hour emergency 1-989-636-4400 Customer information 1-800-258-2436
Paint sealer	6003	Uniseal Corp. www.uniseal.com 1-800-443-6297 1-812-463-5230
Mastic	168.4 (regular), 168.8 (expandable)	

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	—
M14	14.0	1.5	80	8.2	59	—	100	10	74	—	
7T	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	—
	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	—	
9T	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	—
	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

The diagram shows a bolt head with two markings: 'M' and '6'. Below 'M' is the text 'Metric screw threads'. Below '6' is the text 'Nominal diameter of bolts threads (Unit: mm)'.

MG1044A

ADD ON EQUIPMENT

ANTI-CORROSION PROTECTION

**WARNING:**

To avoid risk of death or injury caused by vehicle modifications, check for proper clearance between existing components or newly installed components.

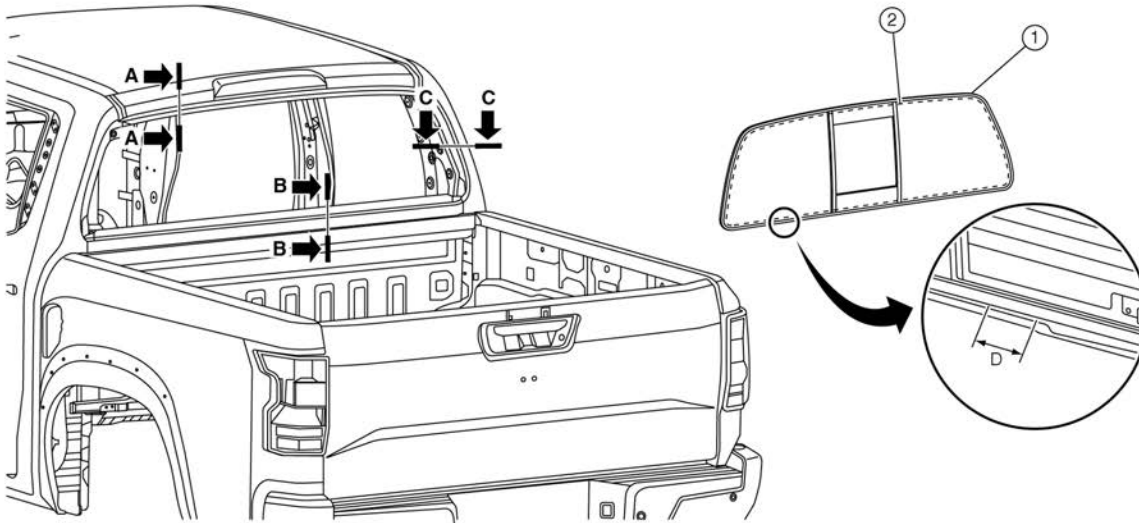
**CAUTION:****Failure to refinish bare metal will result in corrosion**

The basic steps to refinish bare metal are as follows:

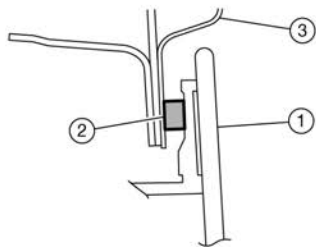
1. Prep the metal surface(s) as follows:
 - a. Remove burrs from the edges with a file or sandpaper.
 - b. Thoroughly clean the metal with solvent and allow to completely dry.
 - c. Apply self-etching primer to all bare metal.
 - d. Allow primer to properly dry.
2. Apply base coat paint and allow to properly dry.
3. Apply clear coat and allow to properly dry.
4. To help prevent internal corrosion, apply cavity wax into any applicable areas.

REAR WINDOW GLASS

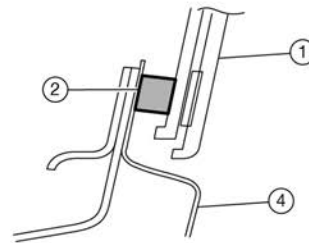
Exploded View - With Sliding Glass



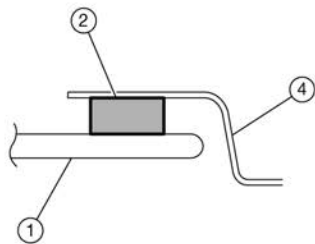
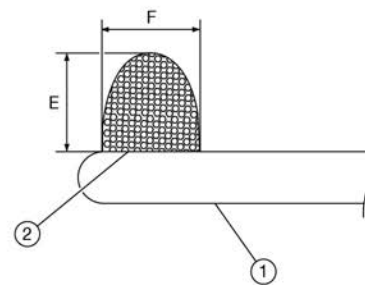
A-A



B-B



C-C



TGAZIA0343ZZ

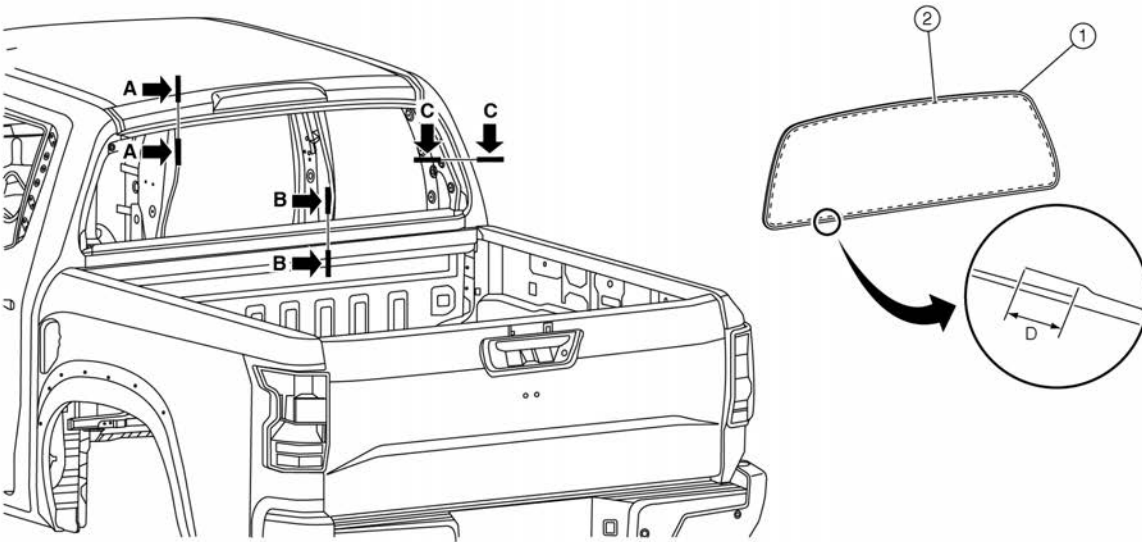
Crew cab shown, King Cab® is the same.

- 1. Rear window glass
- 4. Body outer panel
- F. 7 mm +2, -0 mm
(0.28 in +0.08, -0 in)

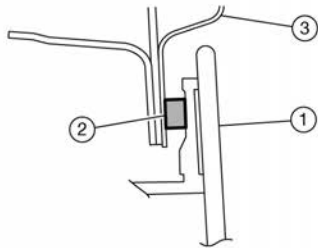
- 2. Adhesive
- D. 50 mm +3, -3 mm
(1.97 in +0.12, -0.12 in)

- 3. Roof panel
- E. 12 mm +2, -0 mm
(0.47 in +0.08, -0 in)

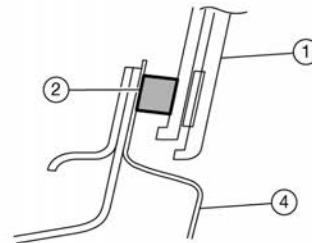
Exploded View - Without Sliding Glass



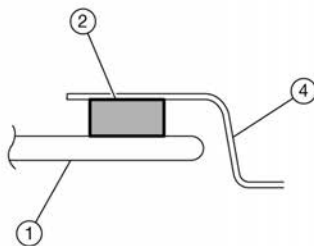
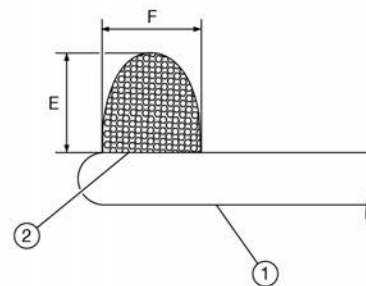
A-A



B-B



C-C



TGAZIA0344ZZ

Crew cab shown, King Cab® is the same.

1. Rear window glass

2. Adhesive

3. Roof panel

4. Body outer panel

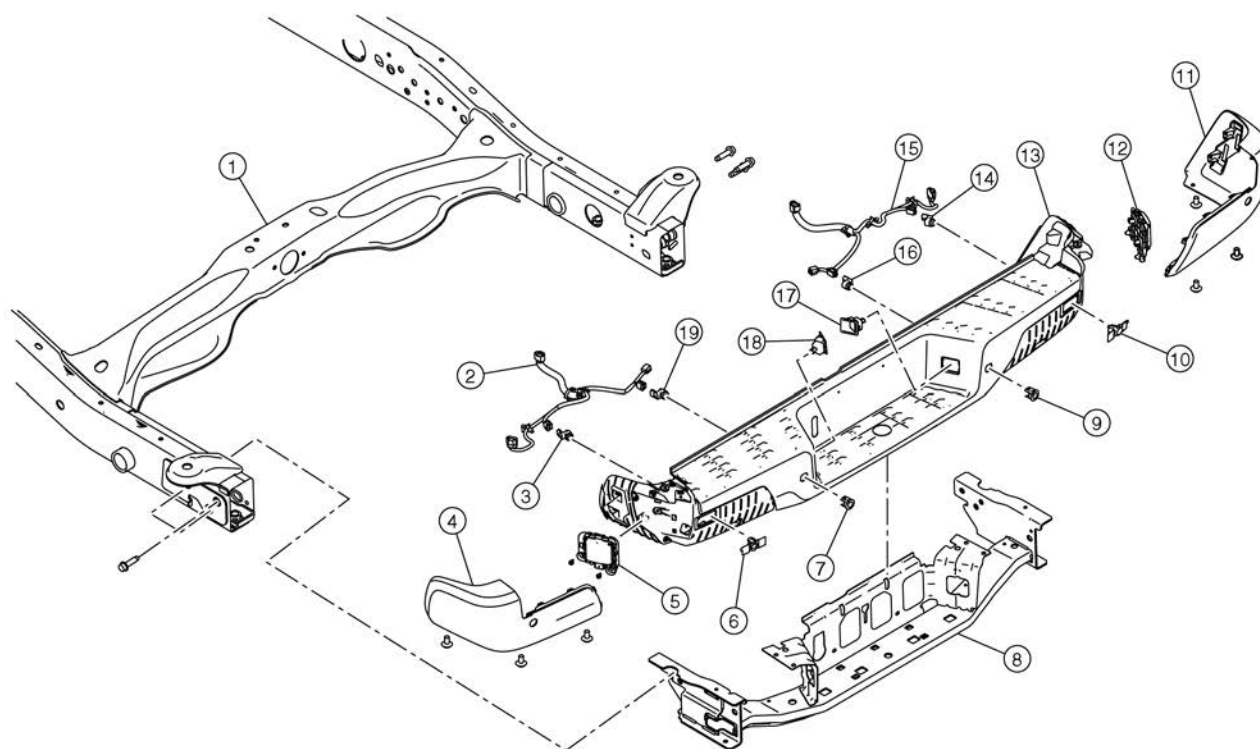
D. 50 mm +3, -3 mm
(1.97 in +0.12, -0.12 in)

E. 12 mm +2, -0 mm
(0.47 in +0.08, -0 in)

F. 7 mm +2, -0 mm
(0.28 in +0.08, -0 in)

REAR BUMPER

Exploded View



TGAZIA0302ZZ

- | | | |
|-----------------------------------|-------------------------------|----------------------------------|
| 1. Frame assembly | 2. Rear bumper harness (LH) | 3. Sonar sensor (outer) |
| 4. Rear bumper finisher (LH) | 5. Side radar (LH) | 6. Sonar sensor finisher (outer) |
| 7. Sonar sensor finisher (inner) | 8. Rear bumper | 9. Sonar sensor finisher (inner) |
| 10. Sonar sensor finisher (outer) | 11. Rear bumper finisher (RH) | 12. Side radar (RH) |
| 13. Rear bumper finisher (center) | 14. Sonar sensor (outer) | 15. Rear bumper harness (RH) |
| 16. Sonar sensor (inner) | 17. License plate lamp (RH) | 18. License plate lamp (LH) |
| 19. Sonar sensor (inner) | | |

Removal and Installation

Rear Bumper

Removal

1. Disconnect rear bumper harness connectors (LH/RH).
2. Remove trailer tow connector socket (if so equipped).
3. Remove rear bumper bolts (LH/RH).
4. Remove rear bumper.
5. Remove the following parts (if necessary) after removing rear bumper.
 - Sonar sensors and finishers (inner/outer)
 - Side radar (LH/RH)
 - License plate lamps (LH/RH)
 - Rear bumper harness (LH/RH)
 - Rear bumper finisher (LH/RH)
 - Rear bumper finisher (center)

Installation

Installation is in the reverse order of removal.



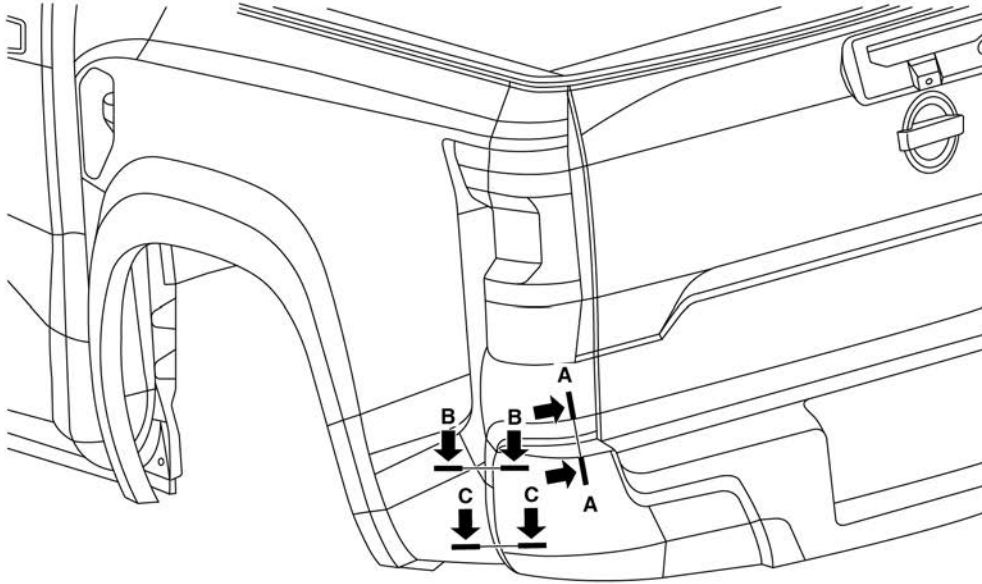
CAUTION:

After installation, perform the following action tests to confirm proper system operation:

- **Blind Spot Warning (BSW):** Refer to Service Manual or see a NISSAN dealer.
- **Rear Cross Traffic Alert (RCTA):** Refer to Service Manual or see a NISSAN dealer.

NOTE:

The following table shows the specified values for checking normal installation status. Fitting adjustment cannot be performed.



TGAZIA0303ZZ

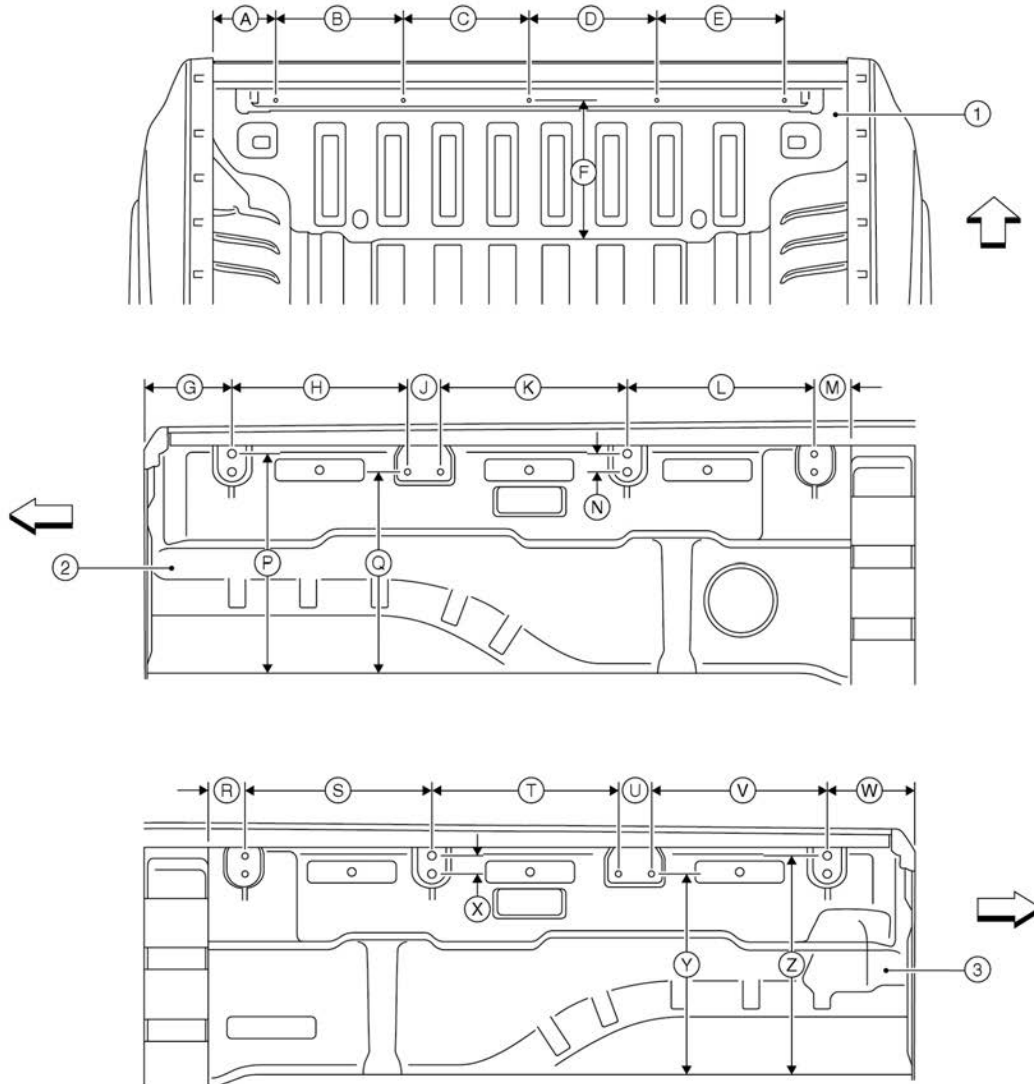
Section	Measurement	Minimum	Target Value	Maximum
A-A	Clearance	14.0 mm (0.55 in)	20.0 mm (0.79 in)	26.0 mm (1.02 in)
B-B	Clearance	14.0 mm (0.55 in)	20.0 mm (0.79 in)	26.0 mm (1.02 in)
C-C	Clearance	16.0 mm (0.63 in)	22.0 mm (0.87 in)	28.0 mm (1.10 in)

BED WELD NUT DIMENSIONS

NOTE:

Weld nuts are only usable if the Utili-track™ channel system is removed or if it is a vehicle that does not have the Utili-track™ channel system. Not all weld nuts shown with Utili-track™ system may be present.

Crew Cab Standard Wheelbase



TGAZIA0308ZZ

NOTE:

For weld nut load specs, refer to the appropriate Weights chart in the Resource Charts section of this manual:

[RESOURCE CHARTS \(pg. 111\)](#)

↔: Front of vehicle.

1. Front Bed Panel
A. 151.7 mm (6.0 in)
D. 298.8mm (11.8 in)
G. 171.1 mm (6.7 in)

2. RH Side Bed Panel
B. 296.9 mm (11.7 in)
E. 300.9 mm (11.9 in)
H. 347.6 mm (13.7 in)

3. LH Side Bed Panel
C. 302.6 mm (11.9 in)
F. 392.0 mm (15.4 in)
J. 65.5 mm (2.6 in)

BED WELD NUT DIMENSIONS

[ADD ON EQUIPMENT]

K. 367.0 mm (14.5 in)
N. 36.4 mm (1.4 in)
R. 80.1 mm (3.2 in)
U. 65.5 mm (2.6 in)
X. 36.4 mm (1.4 in)

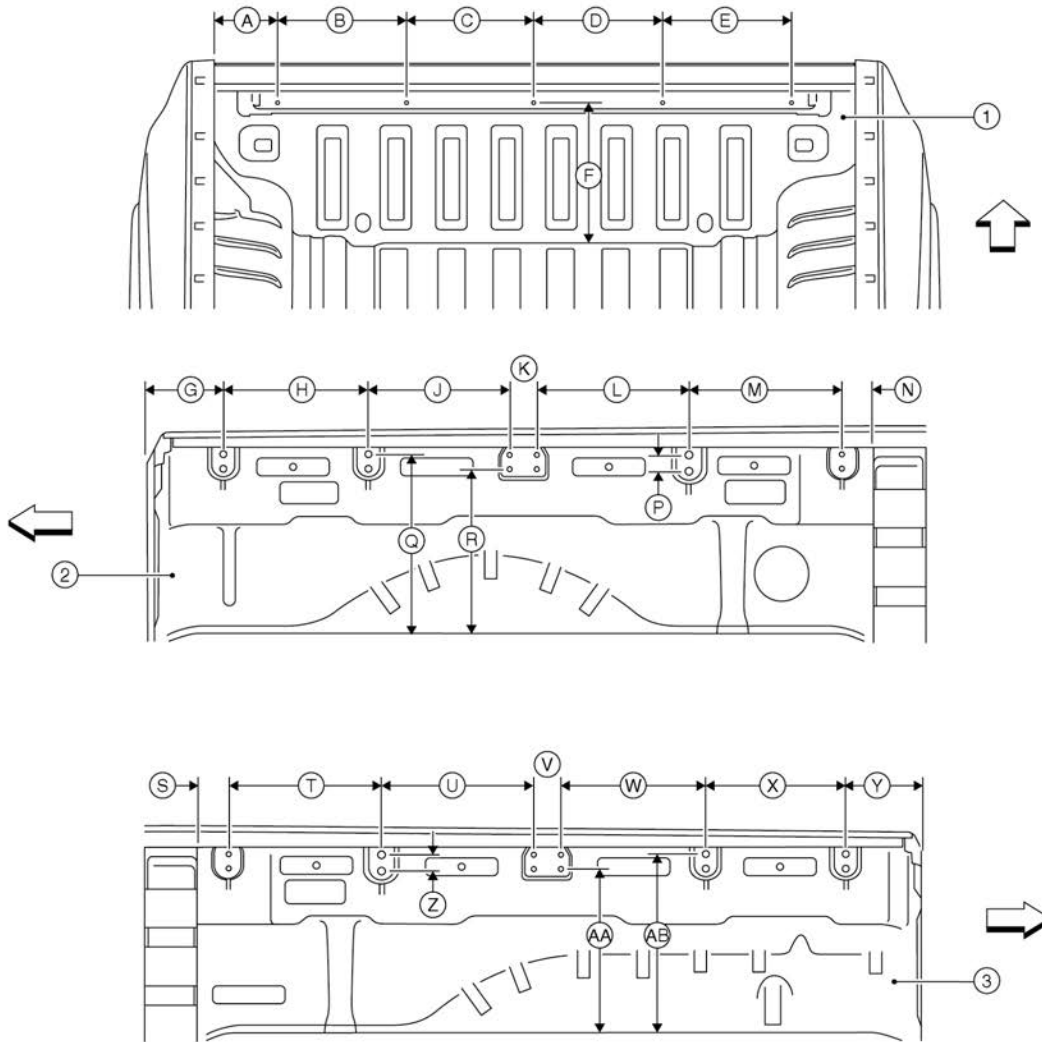
L. 367.0 mm (14.5 in)
P. 487.4 mm (19.2 in)
S. 367.0 mm (14.5 in)
V. 347.6 mm (13.7 in)
Y. 452.0 mm (17.8 in)

M. 80.1 mm (3.2 in)
Q. 452.0 mm (17.8 in)
T. 367.0 mm (14.5 in)
W. 171.1 mm (6.7 in)
Z. 487.4 mm (19.2 in)

BED WELD NUT DIMENSIONS

[ADD ON EQUIPMENT]

King Cab® / Crew Cab Long Wheelbase



TGAAZIA0309ZZ

NOTE:

For weld nut load specs, refer to the appropriate Weights chart in the Resource Charts section of this manual:

[RESOURCE CHARTS \(pg. 111\)](#)

←: Front of vehicle.

1. Front Bed Panel

A. 151.7 mm (6.0 in)

D. 298.8mm (11.8 in)

G. 193.3 mm (7.6 in)

K. 65.8 mm (2.6 in)

N. 35.8 mm (1.4 in)

R. 456.0 mm (18.0 in)

U. 366.9 mm (14.4 in)

X. 347.9 mm (13.7 in)

AA. 456.0 mm (18.0 in)

2. RH Side Bed Panel

B. 296.9 mm (11.7 in)

E. 300.9 mm (11.9 in)

H. 347.9 mm (13.7 in)

L. 366.9 mm (14.4 in)

P. 36.4 mm (1.4 in)

S. 35.8 mm (1.4 in)

V. 65.8 mm (2.6 in)

Y. 193.3 mm (7.6 in)

AB. 477.2 mm (18.8 in)

3. LH Side Bed Panel

C. 302.6 mm (11.9 in)

F. 392.0 mm (15.4 in)

J. 347.2 mm (13.7 in)

M. 367.3 mm (14.5 in)

Q. 477.2 mm (18.8 in)

T. 367.3 mm (14.5 in)

W. 347.2 mm (13.7 in)

Z. 36.4 mm (1.4 in)

CENTER HIGH MOUNT STOP LAMP**CAUTION:**

When adding an additional Center High Mount Stop Lamp (CHMSL) to a vehicle equipped with LED stop lamps, care must be taken to avoid exceeding stop lamp circuit capacity. Use only an LED lamp in an additional CHMSL, or an incandescent lamp not to exceed 10 watts. Exceeding the brake lamp circuit capacity may result in vehicle damage.

**CAUTION:**

Unused wires in the jumper harness must be individually covered with electrical tape in order to prevent a possible short-circuit. Failure to do so may result in vehicle damage.

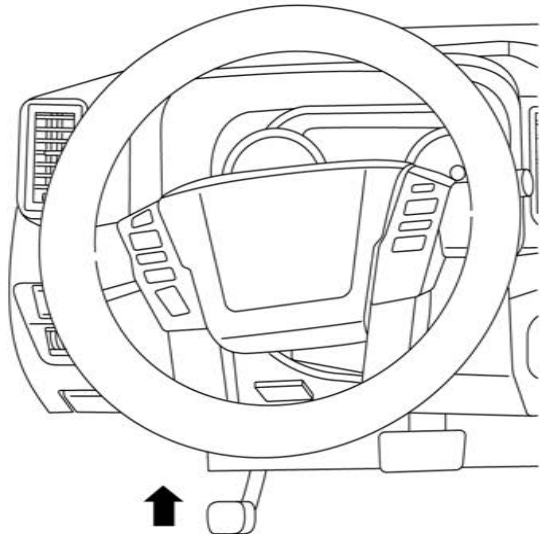
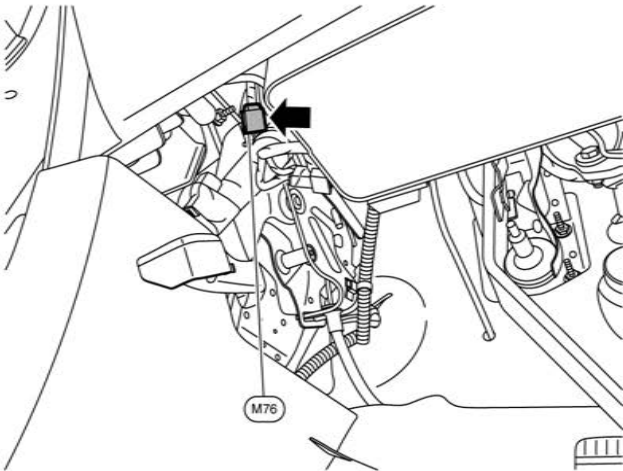
A 6-pin electric brake pre-wiring connector and a jumper harness is included from the factory.

The pre-wiring connector is located in the passenger compartment on the driver's side, taped back to the main harness behind the instrument panel above the parking brake pedal. Refer to the following illustration and wiring information.

Terminal 2 on connector M76 can be used as a tap in point for the addition of a CHMSL.

TGAZ1A0041GB

ELECTRIC BRAKE PRE-WIRING



Connector No.	M76
Connector Name	ELECTRIC BRAKE (PRE-WIRING)
Connector Color	WHITE



2	6
1	3 4 5

Terminal No.	Color of Wire	Signal Name	Wire Gauge
1	Black	GND	14
2	Yellow	STOP LAMPS	20
3	Brown	TRAILER BRAKE	14
4	Red	ILLUMINATION	20
5	Light blue	B+	14

Connector No.	—
Connector Name	ELECTRIC BRAKE (PRE-WIRING) (JUMPER HARNESS SIDE)
Connector Color	WHITE



6	2
5	4 3 1

Terminal No.	Color of Wire	Signal Name
1	Black	GND
2	Red/Green	STOP LAMPS
3	Brown/White	TRAILER BRAKE
4	Red/Blue	ILLUMINATION (NOT USED)
5	Red	B+

SPECIFICATIONS

RECOMMENDED FLUIDS AND LUBRICANTS – USA AND CANADA

NOTE:

Refer to Service Manual for detailed service procedures.

Fluid Type		Capacity (Approximate)			Recommended Fluids/ Lubricants
		Metric	US measure	Imperial measure	
Fuel		80 liters	21-1/8 gallons	17-5/8 gallons	Unleaded gasoline with an octane rating of at least 87 AKI (RON 91) *1
Engine oil Drain and refill	With oil filter change	5 liters	5-1/4 quarts	4-3/8 quarts	Genuine "NISSAN Motor Oil 0W-20 SP" (or equivalent) is recommended. Engine oil with API Certification Mark *2 Viscosity SAE 0W-20 *3
	Without oil filter change	4.7 liters	5 quarts	4-1/8 quarts	
Engine coolant	(With reservoir at MAX level)	12 liters	3-1/8 gallons	2-5/8 gallons	Pre-diluted Genuine NISSAN Long Life Antifreeze/Coolant (blue) or equivalent *4
Automatic transmission fluid (ATF)		9.5 liters	10 quarts	8-3/8 quarts	Genuine NISSAN Matic P ATF or equivalent *5
Front differential gear oil		0.85 liters	1-3/4 pints	1-1/2 pints	Genuine NISSAN Differential Oil Hypoid Super GL-5 80W-90 (conventional oil) or equivalent *6
Rear differential gear oil		2.01 liters	4-1/4 pints	3-1/2 pints	Genuine NISSAN Differential Oil Hypoid Super-CS GL-5 75W-90 or equivalent
Transfer fluid		1.5 liters	1-5/8 quarts	1-3/8 quarts	Genuine NISSAN ATF D3M or equivalent *7
Power steering fluid (PSF) (2022–2023 early production)		0.94 liters	2 pints	1-5/8 pints	Genuine NISSAN PSF II or equivalent. Use of a power steering fluid other than Genuine NISSAN PSF II may prevent the power steering system from operating properly.
Power steering fluid (PSF) (Starting 2023 late production)		1.01 liters	2-1/8 pints	1-3/4 pints	

RECOMMENDED FLUIDS AND LUBRICANTS – USA AND CANADA

[SPECIFICATIONS]

Fluid Type	Capacity (Approximate)			Recommended Fluids/ Lubricants
	Metric	US measure	Imperial measure	
Brake fluid	—	—	—	Genuine NISSAN Super Heavy Duty Brake Fluid *8 or equivalent, DOT 3
Multi-purpose grease	—	—	—	NLGI No.2 (lithium soap base)
Windshield washer fluid	4.3 liters	1-1/4 gallons	1 gallon	Genuine NISSAN Windshield Washer Concentrate Cleaner and Antifreeze or equivalent
Air conditioning system refrigerant (2022 Model year)	0.550 kg (±0.025 kg)	1.213 pounds (±0.055 lb)	1.213 pounds (±0.055 lb)	HFO-1234yf (R-1234yf) *9
Air conditioning system refrigerant (Starting 2023 Model year)	0.475 kg (±0.025 kg)	1.047 pounds (±0.055 lb)	1.047 pounds (±0.055 lb)	
Air conditioning system oil	120 (±10) milliliters	4.1 (±0.3) fluid ounces	4.2 (±0.4) fluid ounces	Genuine NISSAN A/C System Oil Type ND-OIL12 (PAG) or equivalent. *9

*1: For additional information, refer to [Precaution for Fuel \(pg. 431\)](#).

*2: For additional information, refer to [Engine Oil Recommendation \(pg. 431\)](#).

*3: If the above motor oil (or engine oil) is not available, a synthetic 0W-20 GF-6 SP motor oil (or engine oil) may be used. Damage caused by the use of motor oil (engine oil) other than as recommended is not covered under NISSAN's New Vehicle Limited Warranty.

*4: For additional information, refer to [Engine Coolant Recommendation \(pg. 432\)](#).

*5: NISSAN recommends using Genuine NISSAN Matic P ATF (or equivalent) ONLY in NISSAN automatic transmissions. Do not mix with other fluids. Using fluids that are not equivalent to Genuine NISSAN Matic P ATF may damage the automatic transmission. Damage caused by the use of fluids other than as recommended is not covered under NISSAN's New Vehicle Limited Warranty.

*6: NISSAN recommends using Genuine NISSAN Differential Oil Hypoid Super GL-5 80W-90 (or equivalent) ONLY in NISSAN final drive. Do not mix with other fluids. Using fluids that are not equivalent to Genuine NISSAN Differential Oil Hypoid Super GL-5 80W-90 may damage the differential gear. Damage caused by the use of fluids other than as recommended is not covered under NISSAN's New Vehicle Limited Warranty.

*7: Using fluid other than Genuine NISSAN ATF D3M may cause deterioration in driveability and transfer durability, and may damage the transfer. Damage caused by fluids other than as recommended is not covered by the NISSAN New Vehicle Limited Warranty.

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

*9: For additional information, 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).

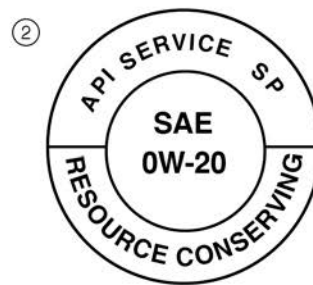


CAUTION:

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 an energy 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 container. Oils which do not have the specified quality label should not be used as they could cause engine damage.



1. API certification mark

2. API service symbol

TGAZIA0340ZZ

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.**

RECOMMENDED FLUIDS AND LUBRICANTS – MEXICO

NOTE:

Refer to Service Manual for detailed service procedures.

Fluid Type		Capacity (Approximate)			Recommended Fluids/ Lubricants
		Metric	US measure	Imperial measure	
Fuel		80 liters	21-1/8 gallons	17-5/8 gallons	Unleaded gasoline with an octane rating of at least 87 AKI (RON 91) *1
Engine oil Drain and refill	With oil filter change	5 liters	5-1/4 quarts	4-3/8 quarts	Genuine "NISSAN Motor Oil 0W-20 SP" is recommended. If the above motor oil is not available, use "NISSAN Motor Oil" or equivalent that matches the following grade and viscosity. <ul style="list-style-type: none"> Oil grade: API SN or SP, ILSAC GF-5 or GF-6A SAE Viscosity: For additional information, see "SAE Viscosity Number (pg. 435)"
	Without oil filter change	4.7 liters	5 quarts	4-1/8 quarts	
Engine coolant	(With reservoir at MAX level)	12 liters	3-1/8 gallons	2-5/8 gallons	Genuine NISSAN Engine Coolant (blue) or equivalent. *2
Automatic transmission fluid (ATF)		9.5 liters	10 quarts	8-3/8 quarts	Genuine NISSAN Matic P ATF or equivalent *3
Front differential gear oil		0.85 liters	1-3/4 pints	1-1/2 pints	Genuine NISSAN Differential Oil Hypoid Super GL-5 80W-90 or equivalent (mineral oil) *4
Rear differential gear oil		2.01 liters	4-1/4 pints	3-1/2 pints	Genuine NISSAN Differential Oil Hypoid Super-CS GL-5 75W-90 (Synthetic) or equivalent *5
Transfer fluid		1.5 liters	1-5/8 quarts	1-3/8 quarts	Genuine NISSAN ATF D3M *6
Power steering fluid (PSF) (2022–2023 early production)		0.94 liters	2 pints	1-5/8 pints	Genuine NISSAN PSF II or equivalent
Power steering fluid (PSF) (Starting 2023 late production)		1.01 liters	2-1/8 pints	1-3/4 pints	

RECOMMENDED FLUIDS AND LUBRICANTS – MEXICO

[SPECIFICATIONS]

Fluid Type	Capacity (Approximate)			Recommended Fluids/ Lubricants
	Metric	US measure	Imperial measure	
Brake fluid	—	—	—	Genuine NISSAN Brake Fluid or equivalent DOT 3 or DOT 4 (US FMVSS No. 116); Never mix different types of fluids (DOT 3 and DOT 4)
Multi-purpose grease	—	—	—	NLGI No.2 (lithium soap base)
Windshield washer fluid	4.3 liters	1-1/4 gallons	1 gallon	Genuine NISSAN Windshield Washer Concentrate Cleaner and Antifreeze or equivalent
Air conditioning system refrigerant (2022 Model year)	0.550 kg (±0.025 kg)	1.213 pounds (±0.055 lb)	1.213 pounds (±0.055 lb)	HFO-1234yf (R-1234yf) *7
Air conditioning system refrigerant (Starting 2023 Model year)	0.475 kg (±0.025 kg)	1.047 pounds (±0.055 lb)	1.047 pounds (±0.055 lb)	
Air conditioning system oil	120 (±10) milliliters	4.1 (±0.3) fluid ounces	4.2 (±0.4) fluid ounces	Genuine NISSAN A/C System Oil Type ND-OIL12 (PAG) or equivalent. *7

***1:** For additional information, refer to [Precaution for Fuel \(pg. 435\)](#).

***2:** Use Genuine NISSAN Engine Coolant or equivalent in its quality, in order to avoid possible aluminum corrosion within the engine cooling system caused by the use of non-genuine engine coolant. Note that any repairs for the incidents within the engine cooling system while using non-genuine engine coolant may not be covered by the warranty even if such incidents occurred during the warranty period.

***3:** NISSAN recommends using Genuine NISSAN Matic P ATF (or equivalent) ONLY in NISSAN automatic transmissions. Do not mix with other fluids. Using fluids that are not equivalent to Genuine NISSAN Matic P ATF may damage the automatic transmission. Damage caused by the use of fluids other than as recommended is not covered under NISSAN's New Vehicle Limited Warranty.

***4:** NISSAN recommends using Genuine NISSAN Differential Oil Hypoid Super GL-5 80W-90 ONLY in final drive. Do not mix with other fluids. Using fluids that are not equivalent to Genuine NISSAN Differential Oil Hypoid Super GL-5 80W-90 may damage the differential gear. Damage caused by the use of fluids other than as recommended is not covered under NISSAN's New Vehicle Limited Warranty.

***5:** NISSAN recommends using Genuine NISSAN Differential Oil Hypoid Super-CS GL-5 75W-90 ONLY in NISSAN final drive. Do not mix with other fluids. Using fluids that are not equivalent to Genuine NISSAN Differential Oil Hypoid Super-CS GL-5 75W-90 may damage the final drive. Damage caused by the use of fluids other than as recommended is not covered under the warranty.

***6:** Using fluid other than Genuine NISSAN ATF D3M may cause deterioration in driveability and transfer durability, and may damage the transfer. Damage caused by fluids other than as recommended is not covered by the NISSAN New Vehicle Limited Warranty.

***7:** For additional information, 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.

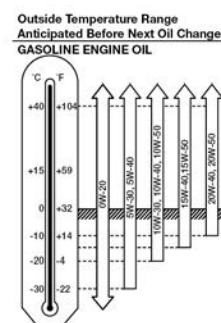
SAE Viscosity Number

0W-20 is preferable. If 0W-20 is not available, select the viscosity from the chart, that is suitable for the outside temperature range.

Engine Coolant Mixture Ratio

MIXTURE RATIO

The engine cooling system is filled at the factory with a high-quality, year-round, anti-freeze coolant solution. The anti-freeze solution contains rust and corrosion inhibitors. Therefore, additional cooling system additives are not necessary.



TGAZIA0042GB



WARNING:

Do not remove the radiator cap when the engine is hot. Serious burns could be caused by high pressure fluid escaping from the radiator. Wait until the engine and radiator cool down.

Protection for outside temperature down to:		Genuine NISSAN Engine Coolant or equivalent	Demineralized water or distilled water
°C	°F		
-35°	-30°	50%	50%



CAUTION:

- When adding or replacing coolant, be sure to use only Genuine NISSAN Engine Coolant or equivalent in quality with the proper mixture ratio as specified.
- Other types of coolant solutions may damage your cooling system.

When checking the engine coolant mixture ratio with the coolant hydrometer, use the following chart to correct the hydrometer reading (specific gravity) according to the coolant temperature as show in the table.

Mixed Coolant Specific Gravity

Engine coolant mixture ratio	Coolant temperature °C (°F)			
	15° (59°)	25° (77°)	35° (95°)	45° (113°)
	Specific gravity			
30%	1.046 - 1.050	1.042 - 1.046	1.038 - 1.042	1.033 - 1.038
50%	1.076 - 1.080	1.070 - 1.076	1.065 - 1.071	1.059 - 1.065

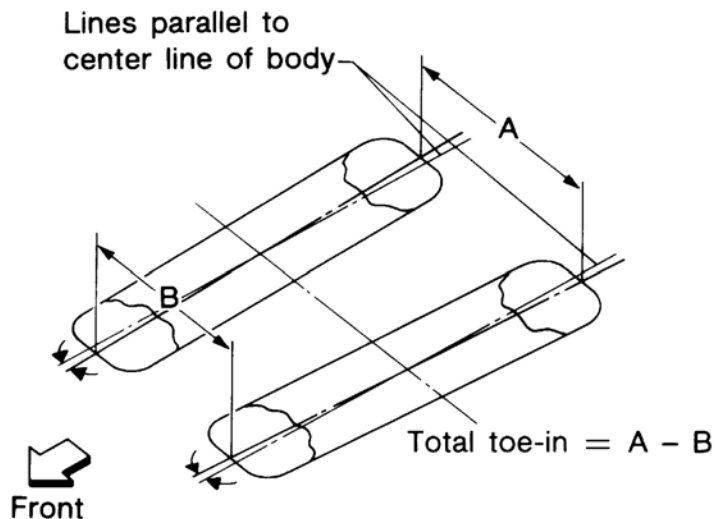
SUSPENSION

General Specification (Front)

Suspension type	Independent double wishbone coil over shock
Shock absorber type	Double-acting hydraulic
Stabilizer	Standard equipment

Wheel Alignment (Unladen *1) *6

Drive Type		2WD	4WD
Camber Degree minute (decimal degree)	Minimum	-1° 36' 00" (-1.600°)	-1° 09' 00" (-1.150°)
	Nominal	-0° 48' 00" (-0.800°)	-0° 21' 00" (-0.350°)
	Maximum	0° 24' 00" (0.400°)	0° 51' 00" (0.850°)
	Cross camber	0° 00' 00" +/- 0° 49' 00" (0.00° +/- 0.825°)	
Caster Degree minute (decimal degree)	Minimum	1° 51' 00" (1.85°)	1° 36' 00" (1.6°)
	Nominal	2° 45' 00" (2.75°)	2° 30' 00" (2.5°)
	Maximum	3° 39' 00" (3.65°)	3° 24' 00" (3.4°)
	Cross caster	0° 00' 00" +/- 0° 49' 00" (0.00° +/- 0.825°)	
Kingpin inclination Degree minute (decimal degree)	Nominal	13° 30' 00" (13.500°)	13° 00' 00" (13.000°)



Total toe-in	Total toe-in Distance (A - B)	Minimum	Out 2.5 mm (Out 0.09 in)
		Nominal	In 4.0 mm (In 0.16 in)
		Maximum	In 10.5 mm (In 0.41 in)
	Total toe-in Angle Degree minute (decimal degree)	Minimum	Out 0° 03' 00" (Out 0.05°)
		Nominal	In 0° 09' 00" (In 0.15°)
		Maximum	In 0° 21' 00" (In 0.35°)

SUSPENSION

[SPECIFICATIONS]

Drive Type		2WD	4WD
Wheel turning angle (full turn)	Inside Degree minute (decimal degree)	33° 27' 01" - 35° 27' 01" * 2 (33.45° - 35.45°)	33° 36' 05" - 35° 36' 05" * 4 (33.60° - 35.60°)
	Outside Degree minute (decimal degree)	29° 21' 00" - 31° 21' 00" * 3 (29.35° - 31.35°)	29° 42' 00" - 31° 42' 00" * 5 (29.70° - 31.70°)

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

***2:** Target value 35° 27' 01" (35.45°)

***3:** Target value 31° 21' 00" (31.35°)

***4:** Target value 35° 36' 05" (35.60°)

***5:** Target value 31° 42' 00" (31.70°)

***6:** Some vehicles may be equipped with straight (non-adjustable) lower link bolts and washers. In order to adjust camber and caster on these vehicles, first replace the lower link bolts and washers with adjustable (cam) bolts and washers.

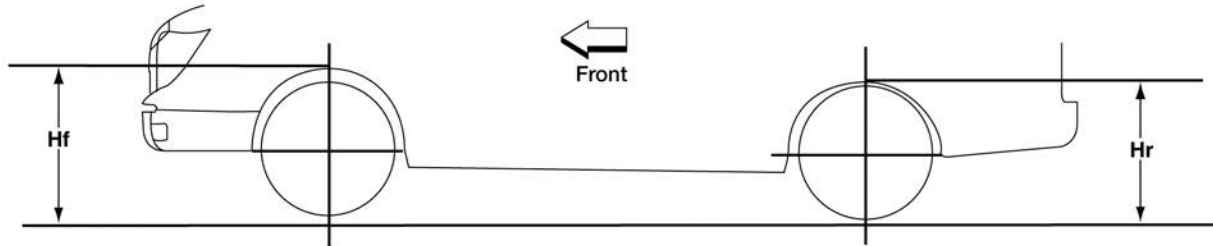
General Specification (Rear)

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

Wheel Arch Height (Unladen^{*1}) — Crew Cab 2WD for USA and Canada — 2022–2023 early production

NOTE:

Check battery orientation to identify 2023 model year early or late production, refer to [How to identify Early/Late production \(pg. 81\)](#)

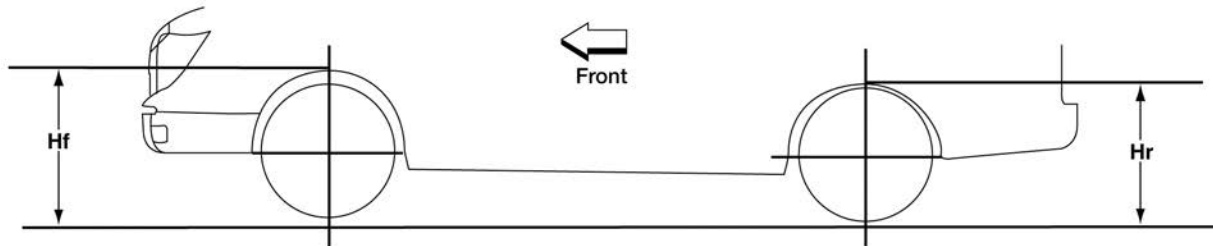


AAZIA0381GB

Axle	2WD Standard Wheelbase			2WD Long Wheelbase
Grade	S	SV	PRO-X	SV
Tire size	P265/70R16	265/65R17	265/70R17	265/65R17
Front wheel arch height (Hf)	868 mm (34.17 in)	860 mm (33.86 in)	873 mm (34.37 in)	859 mm (33.82 in)
Rear wheel arch height (Hr)	891 mm (35.08 in)	882 mm (34.72 in)	895 mm (35.24 in)	883 mm (34.76 in)

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

Wheel Arch Height (Unladen^{*1}) — Crew Cab 2WD for USA and Canada — starting with 2023 late production



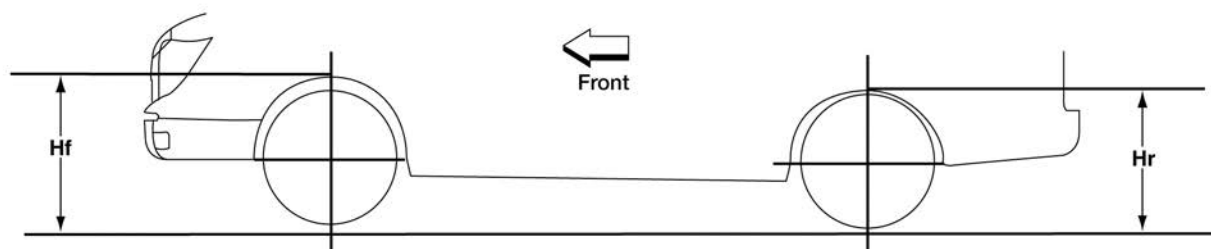
AAZIA0381GB

Axle	2WD Standard Wheelbase			2WD Long Wheelbase
Grade	S	SV, SL*2	PRO-X	SV
Tire size	P265/70R16	265/65R17	265/70R17	265/65R17
Front wheel arch height (Hf)	863 mm (33.98 in)	855 mm (33.66 in)	867 mm (34.13 in)	854 mm (33.62 in)
Rear wheel arch height (Hr)	886 mm (34.88 in)	877 mm (34.53 in)	890 mm (35.04 in)	878 mm (34.57 in)

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

*2: SL grade starting with 2024 model year.

Wheel Arch Height (Unladen^{*1}) — Crew Cab 2WD Except for USA and Canada — 2022–2023 early production

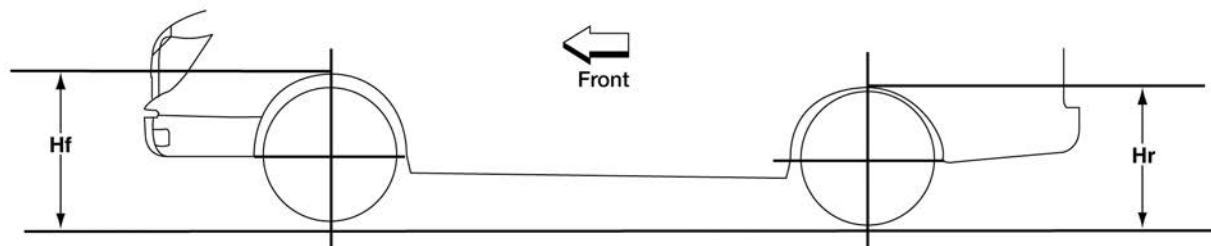


AAZIA0381GB

Axle	2WD Standard Wheelbase
Grade	SV
Tire size	265/65R17
Front wheel arch height (H_f)	860 mm (33.86 in)
Rear wheel arch height (H_r)	882 mm (34.72 in)

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

Wheel Arch Height (Unladen^{*1}) — Crew Cab 2WD Except for USA and Canada — starting with 2023 late production

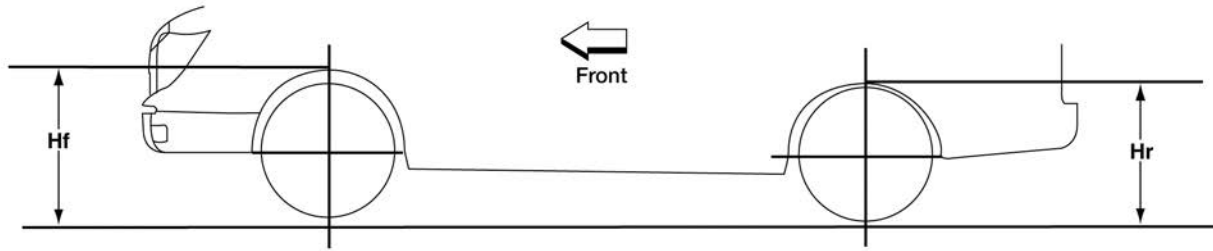


AAZIA0381GB

Axle	2WD Standard Wheelbase
Grade	SV
Tire size	265/65R17
Front wheel arch height (H_f)	855 mm (33.66 in)
Rear wheel arch height (H_r)	878 mm (34.57 in)

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

Wheel Arch Height (Unladen^{*1}) — Crew Cab 4WD for USA and Canada



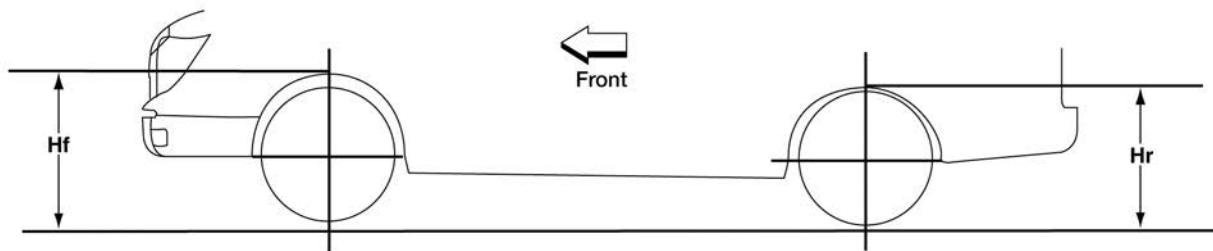
AAZIA0381GB

Axle	4WD Standard Wheelbase			4WD Long Wheelbase
Grade	S	SV, SL*2	PRO-4X	SV, SL*2
Tire size	P265/70R16	265/65R17	265/70R17	265/65R17
Front wheel arch height (Hf)	881 mm (34.39 in)	873 mm (34.37 in)	885 mm (34.84 in)	872 mm (34.33 in)
Rear wheel arch height (Hr)	901 mm (35.47 in)	892 mm (35.12 in)	905 mm (35.63 in)	892 mm (35.12 in)

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

*2: SL grade starting with 2024 model year.

Wheel Arch Height (Unladen^{*1}) — Crew Cab 4WD Except for USA and Canada

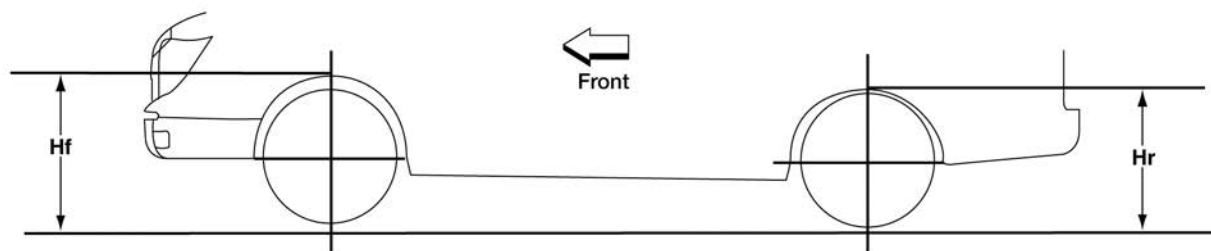


AAZIA0381GB

Axle	4WD Standard Wheelbase
Grade	PRO-4X
Tire size	265/70R17
Front wheel arch height (Hf)	885 mm (34.84 in)
Rear wheel arch height (Hr)	905 mm (35.63 in)

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

Wheel Arch Height (Unladen^{*1}) — King Cab® 2WD — 2022–2023 early production

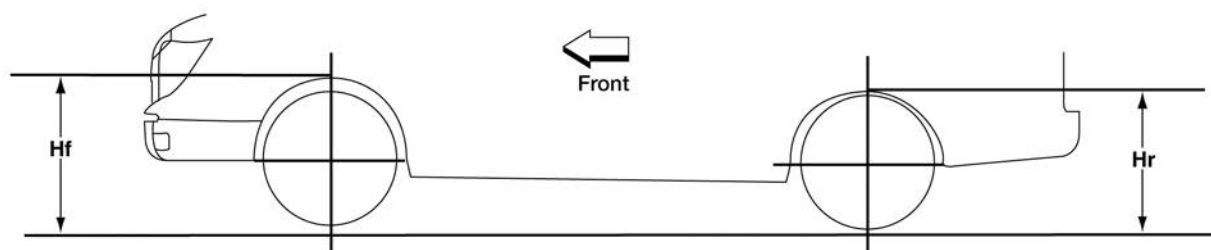


AAZIA0381GB

Drive type	2WD	
Grade	S	SV
Tire size	P265/70R16	265/65R16
Front wheel arch height (Hf)	869 mm (34.21 in)	860 mm (33.86 in)
Rear wheel arch height (Hr)	892 mm (35.12 in)	884 mm (34.80 in)

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

Wheel Arch Height (Unladen^{*1}) — King Cab® 2WD — starting with 2023 late production

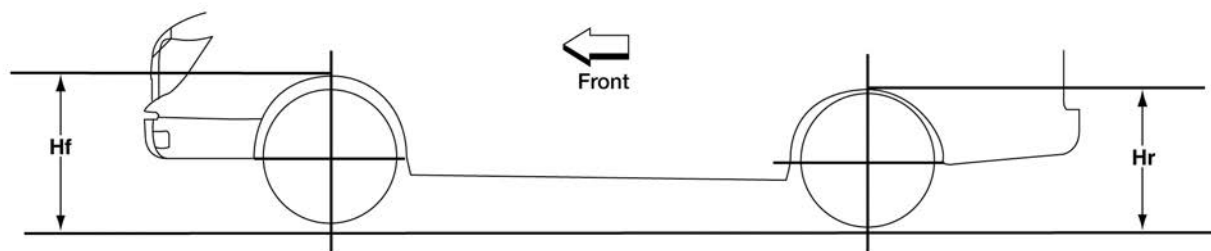


AAZIA0381GB

Drive type	2WD	
Grade	S	SV
Tire size	P265/70R16	265/65R17
Front wheel arch height (Hf)	863 mm (33.98 in)	855 mm (33.66 in)
Rear wheel arch height (Hr)	887 mm (34.92 in)	878 mm (34.57 in)

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

Wheel Arch Height (Unladen^{*1}) — King Cab® 4WD — 2022–2023 early production

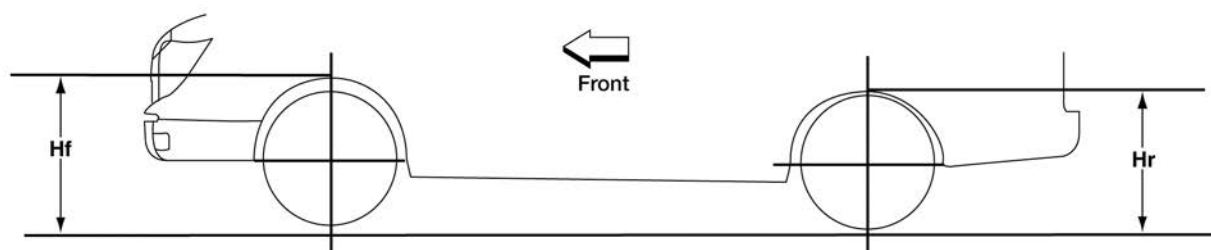


AAZIA0381GB

Drive type	4WD		
Grade	S	SV	PRO-4X
Tire size	P265/70R16	265/65R16	265/65R17
Front wheel arch height (H_f)	881 mm (34.68 in)	873 mm (34.37 in)	896 mm (35.28 in)
Rear wheel arch height (H_r)	902 mm (35.51 in)	893 mm (35.16 in)	916 mm (36.06 in)

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

Wheel Arch Height (Unladen^{*1}) — King Cab® 4WD — starting with 2023 late production



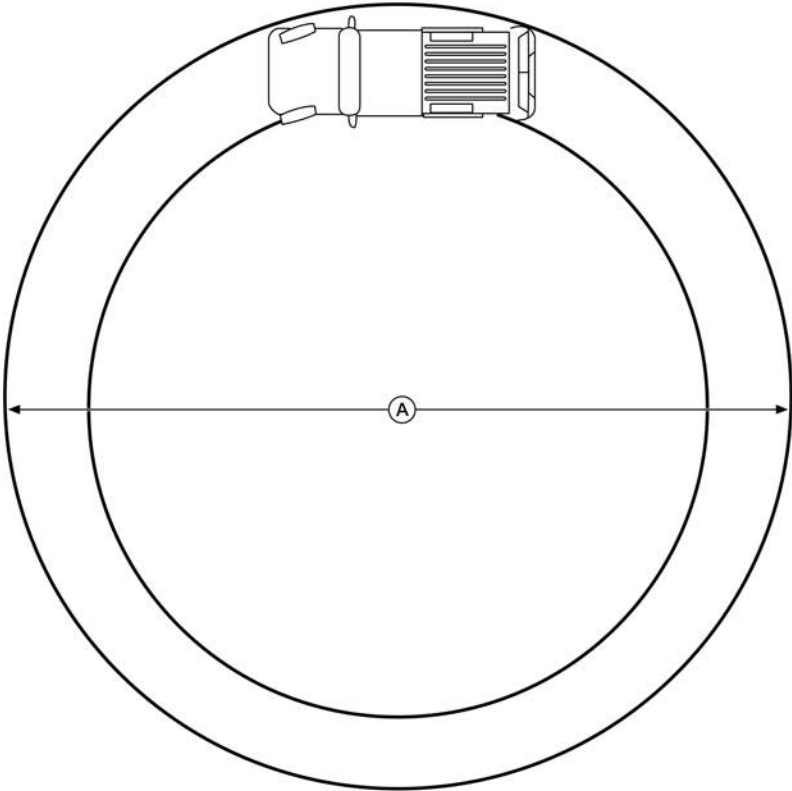
AAZIA0381GB

Drive type	4WD		
Grade	S	SV	PRO-4X
Tire size	P265/70R16	265/65R17	265/70R17
Front wheel arch height (H_f)	881 mm (34.68 in)	873 mm (34.37 in)	895 mm (35.24 in)
Rear wheel arch height (H_r)	902 mm (35.51 in)	893 mm (35.16 in)	916 mm (36.06 in)

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

TURNING DIAMETER

Wall-to-Wall



AAZIA0600ZZ

A. Turning circle (wall-to-wall)

Vehicle	Turning radius	Turning diameter	Track
King Cab® / Crew Cab Standard Wheelbase 2WD	6,843.4 mm (269.4 in)	13,686.8 mm (538.8 in)	1,570.0 mm (61.8 in)
King Cab® / Crew Cab Standard Wheelbase 4WD	6,803.9 mm (267.9 in)	13,607.9 mm (535.8 in)	1,570.0 mm (61.8 in)
Crew Cab Long Wheelbase 2WD	7,480.6 mm (294.5 in)	14,961.2 mm (589.0 in)	1,570.0 mm (61.8 in)
Crew Cab Long Wheelbase 4WD	7,436.4 mm (292.8 in)	14,872.8 mm (585.6 in)	1,570.0 mm (61.8 in)

WHEEL AND TIRE

Wheels and Tires

Refer to tire placard on vehicle for tire pressure specifications.

Cab style	Grade	Road wheel	Tire Size	Spare wheel	Spare tire size
King Cab®	S	16 X 7.0JJ – Styled Steel	P265/70R16	Full size – Steel	P265/70R16
	SV	17 X 7.5J Alloy	265/65R17	Full size – Steel	P265/70R16
Crew Cab	S	16 X 7.0JJ – Styled Steel	P265/70R16	Full size – Steel	P265/70R16
	SV, SL (SWB/LWB)	17 X 7.5J Alloy	265/65R17	Full size – Steel	P265/70R16
	PRO-X	17 X 7.5J Alloy	265/70R17	Full size – Steel	265/70R17
	PRO-4X	17 X 7.5J Alloy	265/70R17	Full size – Steel	265/70R17

Wheel Dimensions	
Diameter	16 in
	17 in
Width	7.0 in
	7.5 in
Offset	16 X 7.0JJ steel wheel: 30 mm (1.18 in)
	17 X 7.5J alloy wheel: 30 mm (1.18 in)
Bolt pattern	6 x 139.7 mm (6 X 5.5 in)
Center bore	66 mm (2.60 in)
Lug nut thread pitch	M12 x 1.25
Brake caliper clearance	3.0 mm (0.12 in) min.

BULBS

Exterior Lamp

Item		Wattage (W)*	Bulb No.*
Front combination lamp (without LED)	Headlamp low/high (Halogen)	55/65	HB5
	Turn signal/parking lamp	28/8	7444NA
	Side marker	—	—
Front combination lamp (with LED)	Headlamp low (LED)	—	—
	Headlamp high (LED)	—	—
	Daytime running lamps/parking lamp	—	—
	Turn signal	—	—
	Side marker	—	—
Front fog lamp assembly (without LED)	Fog lamp	35	H8
	Daytime running lamps	21	W21W
Front fog lamp (with LED)		—	—
Rear combination lamp	Stop/turn lamp	—	—
	Back-up lamp	—	—
	Tail lamp	—	—
High-mounted stop lamp/cargo lamp		12.8	912
Under rail bed lamp		—	—
License plate lamp		—	—

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

Interior Lamp/Illumination

Item	Wattage (W)*	Bulb No.*
Map lamp	8	—
Room lamp (except LED type)	8	—
Room lamp (LED type)	—	—
Vanity lamp	1.4	—
Glove box lamp	1	—

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

BATTERY

NOTE:

Check battery orientation to identify 2023 model year early or late production, refer to [How to identify Early/Late production \(pg. 81\)](#)

Application→	2022 Model Year and 2023 Model Year (early production)	Starting with 2023 Model Year (late production)
Type*	L2 EFB	L4 EFB
Capacity (20 HR) minimum V-AH	12 - 60	12 - 85
Cold Cranking Current A [For reference value at -18°C (0°F)]	510	760

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

INVERTER SPECIFICATIONS

Rated voltage output		AC 120-volt (±10%)
Operating voltage range		DC 11.5-volt to 15-volt (Inverter terminal)
Rated power output	Low power mode	150-watt
	High power mode	400-watt
Output over-current protection	High power mode	3.7A or more
Input over-current protection	Low power mode	13.3A or more
Output frequency		60Hz (±10%)
Parasitic current		Less than 1 mA
Max. input current		45A (during continuous power)
Rated continuous power		400-watt @ 40°C (104°F) Maximum
Overheat protection (Thermistor)		100°C (212°F)

ACRONYMS

ACRONYM LIST

Acronym	Description
2WD	Two Wheel Drive
4WD	Four Wheel Drive
ABS	Anti-lock Braking System
AC	Alternating Current
A/C	Air Conditioning
AKI	Anti-Knock Index
AM/FM	Amplitude Modulated/Frequency Modulated
ANSI	American National Standards Institute
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
EVAP	Evaporative Emission
FCC	Federal Communications Commission (USA)
FFV	Flexible Fuel Vehicle
FMVSS	Federal Motor Vehicle Safety Standards
FSS	Front Sonar System
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, and Air Conditioning

Acronym	Description
IC	Inflatable Curtain
IDs	Identifications
ILSAC	International Lubricant Standardization and Approval Committee
IPDM E/R	Intelligent Power Distribution Module Engine Room
LDD	Load Divider Dolly
MCRS	Modular Common Rail System
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
NOx	Mono-Nitrogen Oxides
OEM	Original Equipment Manufacturer
ORVR	On-Board Refueling Vapor Recovery
OSHA	Occupational Safety and Health Act
PSF	Power Steering Fluid
PTC	Positive Temperature Coefficient
RF	Radio Frequency
RFI	Radio Frequency Interference
RKE	Remote Keyless Entry
RPM	Revolutions Per Minute
RSS	Rear Sonar System
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
TPMS	Tire Pressure Monitoring System
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 Difference	°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 ² , psi)	kg/cm ²	→ 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 ₂ O, inH ₂ O)	mmH ₂ O	→ kPa	: 0.009807
			→ mbar	: 0.09807
			→ inH ₂ O	: 0.03937
Inflation Pressure	kg/cm ² , (kPa, bar, psi)	kg/cm ²	→ 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 ³ /(cu in)	cm ³	→ 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

[CONVERSION CHARTS]

INCH-MILLIMETER EQUIVALENTS CHART

Fraction inches	Decimal inches	Metric mm
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

Fraction inches	Decimal inches	Metric mm
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		Engine Cooling System	364
ACRONYM LIST	448	EXHAUST – CREW CAB	374
ADD ON EQUIPMENT		EXHAUST – KING CAB®	378
ANTI-CORROSION PROTECTION	418	Exhaust System	374
BED WELD NUT DIMENSIONS	424	FRAME	385
CENTER HIGH MOUNT STOP LAMP	427	FRONT BUMPER	366
Rear Bumper	422	Garage Jack Points	388
REAR BUMPER	421	General	381
REAR WINDOW GLASS	419	HIGH STRENGTH STEEL LOCATIONS	394
Removal and Installation	422	HVAC	365
BODY DIMENSIONS		Inspection After Installation	377
Bed Dimensions	207	JACK – CREW CAB	386
Bed Rib Dimensions	214	JACK – KING CAB®	390
Bed Support Dimensions	215	Jack Storage	386
CARGO AREA	179	MIRRORS	373
Crossmember and Body Mount Dimensions	231	MSDS Information	416
Door Opening Measurements	197	PAINT GENERAL INFORMATION	401
Doors and Mirrors Dimensions	198	PAINT WORK	402
EXTERIOR – KING CAB®	217	REAR BUMPER	367
EXTERIOR – CREW CAB	197	REPLACING BOLTS	417
Exterior Overall Dimensions – 2022-2023		SONAR SYSTEM	368
(early production) Model Years	199	STEERING AND SUSPENSION	382
Exterior Overall Dimensions – 2023 Model Year		Tightening Torque Table	417
(late production)	201	TRANSMISSION	384
Exterior Overall Dimensions – 2023 Model Year		Vehicle Handling Information	382
(late production) and 2024 Model Year	221	VEHICLE INTERIOR	400
Exterior Overall Dimensions –		WELDING	399
2024 Model Year	203	WHEEL AND TIRE	381
Exterior Overall Dimensions –		WINDSHIELD	372
Starting 2025 Model Year	205	ELECTRICAL	
FRAME/BODY	231	Added Lights or Accessories Controlled By	
Interior Dimensions—Crew Cab	179	Added Switches	323
Interior Dimensions—King Cab®	181	ADDING LIGHTS OR DEVICES	323
PASSENGER COMPARTMENT	166	Aiming Adjustment Procedure	317
PLACARDS	196	AROUND VIEW® MONITOR SYSTEM – CREW CAB	333
Rear Seat Mounting Holes	167	BATTERY VOLTAGE CONNECTION	276
Seat Position Diagrams	169	BATTERY VOLTAGE CONTROL SYSTEM	275
SIGN AREA – CREW CAB	182	Bed Mounted AC 120-volt Power Outlet	328
SIGN AREA – KING CAB®	189	BULBS	313
Tie-Down Hooks	212	Component Parts Location	325
Wheel Well Clearance	210	DATA LINK CONNECTOR LOCATION	
CONVERSION CHARTS		(FOR DIAGNOSTIC SCAN TOOL)	244
INCH-MILLIMETER EQUIVALENTS CHART	452	Description	324
METRIC-ENGLISH CONVERSION CHART	450	Electrical Wiring – Adding Lights or Electrical	
DESIGN REQUIREMENTS FOR MODIFICATIONS		Devices	323
2 Pole Lift Points	389	FOG LAMP AIMING	319
ADHESIVE INFORMATION	416	FRONT FOG LAMP AIMING	320
Blind Spot Warning System	373	FUSE AND RELAY INFORMATION – 2022-2023	
Changes To The HVAC System	365	(early)	249
COOLING	364	FUSE AND RELAY INFORMATION – 2023 (late)	
DRIVELINE	383	Through 2024 Model Year	256
		FUSE AND RELAY INFORMATION –	
		Starting with 2025 Model Year	265
		Ground	274

GROUND	274	VEHICLE CODING INFORMATION	83
HARNESS LAYOUT	281	Vehicle Identification	83
HEADLAMP AIMING	314		
Inspection	314	RESOURCE CHARTS	
INVERTER SPECIFICATIONS	329	EXTERIOR MEASUREMENTS —	
INVERTER SYSTEM	324	(2024 Model Year)	156
Radio Frequency Interference (RFI)	323	EXTERIOR MEASUREMENTS —	
REAR VIEW MONITOR SYSTEM	331	(Starting with 2025 Model Year)	161
REGULATIONS FOR ADDING COMMUNICATION		EXTERIOR MEASUREMENTS — 2022 and	
EQUIPMENT	322	2023 Model Years (early/late)	151
REMOTE KEYLESS ENTRY SYSTEM	330	INTERIOR MEASUREMENTS	147
SELF-TEST MODE	243	WEIGHTS — 2WD VEHICLES — 2022 Model Year	111
SHIPPING (EXTENDED STORAGE) MODE		WEIGHTS — 2WD VEHICLES — 2023 Model Year	
CONTROL SYSTEMS	245	(early production)	114
SHIPPING MODE (EXTENDED) STORAGE		WEIGHTS — 2WD VEHICLES — 2023 MODEL YEAR	
SYSTEM CANCEL	246	(late production)	117
UPFITTER WIRING PASS-THROUGH	278	WEIGHTS — 2WD VEHICLES — 2024 MODEL	
		YEAR	120
FUEL SYSTEMS		WEIGHTS — 2WD VEHICLES — 2025 MODEL YEAR	123
Drilling Precaution Area	345	WEIGHTS — 4WD VEHICLES — 2022 Model Year	126
FILLER NECK AREAS	340	WEIGHTS — 4WD VEHICLES — 2023 Model Year	
Fuel Filler Pipe Location	341	(early production)	130
Fuel Pressure Release Procedure	338	WEIGHTS — 4WD VEHICLES — 2023 MODEL YEAR	
FUEL SYSTEM PRECAUTIONS	337	(late production)	134
General	337	WEIGHTS — 4WD VEHICLES — 2024 MODEL YEAR	138
TANK LOCATION	343	WEIGHTS — 4WD VEHICLES — 2025 MODEL YEAR	142
Tank Mounting	343		
		SAFETY INFORMATION	
GENERAL INFORMATION		ALTERED VEHICLES	52
Canada	11	BRAKE COMPLIANCE GUIDELINES	54
CONTACT INFORMATION	8	Canada:	53
DEFINITIONS OF TERMS	10	CENTER OF GRAVITY (CG) — CREW CAB	55
Disclaimer	6	CENTER OF GRAVITY (CG) — KING CAB®	68
DISCLAIMER	6	FMVSS AND CMVSS REGULATION LIST	79
Important Regulatory Information	6	FRONT AIR BAG DEPLOYMENT ZONES —	
SERVICE INFORMATION AND TOOLS	7	CREW CAB	17
USA	10	FRONT AIR BAG DEPLOYMENT ZONES —	
WARRANTY	9	KING CAB®	36
		OCCUPANT CLASSIFICATION SYSTEM	16
MODEL INFORMATION		PRECAUTIONS	80
2023 MODEL YEAR - HOW TO IDENTIFY		Precautions For Electrical CAN	
EARLY/LATE PRODUCTION	81	(Controller Area Network) System	80
CLASS	85	Precautions for Supplemental Restraint System	
Determining Available Towing Capacity	91	(SRS) "Air Bag" and "Belt Pre-Tensioner"	13
GVWR/TOWING CAPACITY	91	Precautions When Using Power Tools	
Identification Number	82	(Air or Electric) and Hammers	13
LABEL INFORMATION	82	Recommended Procedure	56
Model Code Arrangement (2022-2023 Model		SRS COMPONENT LOCATIONS — CREW CAB	14
Years)	85	SRS COMPONENT LOCATIONS — KING CAB®	33
Model Code Arrangement (2024 Model Year)	87	Standards	79
Model Code Arrangement (Starting with		SUPPLEMENTAL RESTRAINT SYSTEM (SRS)	
2025 Model Year)	89	PRECAUTIONS	13
TRUCK OPTION MASS — 2022 MODEL YEAR	93	USA:	52
TRUCK OPTION MASS — 2023 MODEL YEAR	97	Vehicle Center of Gravity Envelope —	
TRUCK OPTION MASS — 2024 MODEL YEAR	102	Unloaded Vehicle Weight (UVW)	59
TRUCK OPTION MASS — 2025 MODEL YEAR	107	Vehicle Center of Gravity Measurement Process	55

SPECIFICATIONS

BATTERY	446
BULBS	445
INVERTER SPECIFICATIONS	447
RECOMMENDED FLUIDS AND LUBRICANTS –	
MEXICO	433
RECOMMENDED FLUIDS AND LUBRICANTS –	
USA AND CANADA	429
SUSPENSION	436
TURNING DIAMETER	443
WHEEL AND TIRE	444

TRAILER TOW

BRAKE CONTROLLER	359
Class I Hitch	362
Class II Hitch	362
Class III Hitch	362
Class IV Hitch	362
System Description	357
System Diagram	357
TRAILER HITCH	361
TRAILER SWAY CONTROL	358
Trailer Wiring	351
Weight Distribution Hitch	361
WIRING	351