



Nissan Armada



Technical Specs: All Technical Specs before armoring

Engine

Standard Engine	5.6L V8
Standard Transmission	5 Speed Automatic
Cylinders	8
Horsepower @ RPM	305@4900
Fuel Economy Cty/Hwy	13 / 18
Combined Fuel Economy	15
EPA Class	Four Wheel Drive SUV
Number of Valves	32
Torque @ RPM	385@3600
Fuel Type/System	Gas Engine / Sequential Electronic Fuel Injected
Turbo (yes/no)	No
Overdrive Transmission	Yes
Battery Output	N/A
Compression	9.8
Displacement	5552 / 339
Bore X Stroke	3.86x3.62



Engine Continued

Cruising Range	420
Final Drive Gear Ratio Opt	N/A
Power To Weight Ratio	18
Final Drive Ratio	3.36
Valves Configuration	Dual Overhead Cam/Twin Overhead Cam
Supercharged	No
Electric HorsePower RPM	N/A
Electric Torque Feet Per Pound	N/A
Electric Torque RPM	N/A
Electric HorsePower BHP	N/A

Capacity & Volume

Cargo Volume (EPA)	Not Listed
Cargo Volume (MFR)	20.0
Fuel Capacity	28.0
Passenger Volume (EPA)	Not Listed
Passenger Volume (MFR)	Not Listed
Box/Cargo Height	Not Listed
Box/Cargo Length	Not Listed
Box/Cargo Width (Wheel)	Not Listed
Box/Cargo Width (Wall)	Not Listed
GVWR Standard	7100
GVWR Maximum	7100
Payload Standard	1693
Payload Maximum	1693

Brakes, Steering, Suspension & Tires

Brakes (Front)	Disc
Brakes (Rear)	Disc
Driveline	Four Wheel Drive Selectable
Driveline (Opt)	N/A
Steering	Rack & Pinion
Steering Diameter Left	40.8
Steering Diameter Right	40.8
Suspension (Front)	Independent
Suspension (Rear)	Independent
Tire Type	Passenger
Tire Width	265



Brakes Continued

Tire Aspect Ratio	70
Tire Construction	Radial
Tire Wheel Diameter	18

Interior Dimensions

Seating (Standard)	7
Seating (Optional)	8
Tow Capacity (Standard)	9100
Tow Capacity (Maximum)	9000
Headroom (Front)	41.0
Headroom (Row 2)	40.0
Hiproom (Front)	61.3
Hiproom (Row 2)	60.1
Legroom (Front)	41.8
Legroom (Row 2)	41.9
Shoulder Room (Front)	65.1
Shoulder Room (Row 2)	64.5
Seating (Maximum)	8
Headroom (Row 3)	35.9
Hiproom (Row 3)	48.8
Legroom (Row 3)	32.2
Shoulder Room (Row 3)	63.7

Exterior Dimensions & Weight

Curb Weight MT	N/A
Curb Weight AT	5528
Ground Clearance	10.7
Height	78.7
Length	206.9
Top Type (Standard)	Hard Fixed
Top Type (Optional)	Not Applicable
Track (Front)	67.5
Track (Rear)	67.5
Weight Distribution AT (Front)	52
Weight Distribution AT (Rear)	48
Weight Distribution MT (Front)	N/A
Weight Distribution MT (Rear)	N/A
Wheelbase	123.2



Exterior Dimensions & Weight Continued

Width	78.8
Doors (Standard)	4
Doors (Maximum)	4

Origin

Where Built	U.S.A.
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Standard Features:

Transmission

- 5-Speed Electronically Controlled Automatic Transmission With Overdrive, Floor Mounted Shifter and Tow/Haul Mode

Steering

- Power Engine Speed Sensitive Rack and Pinion Variable Assisted Steering
- Tilt Steering Column

Suspension

- Rear Automatic Load-Leveling
- Independent Double Wishbone Front Suspension With Shock Absorbers
- Independent Double Wishbone Rear Suspension With Shock Absorbers
- Rear Stabilizer Bar

Electrical

- Audio Prewiring
- Drive-By-Wire Control For Throttle
- 2 Rear Power Outlets
- Heavy Duty Battery
- Delayed Power Retention
- 2 Front Power Outlets

Braking & Traction

- Selectable 4-Wheel Drive
- Automatic Locking Hubs
- Transfer Case
- Traction Control



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- Vehicle Dynamic Control Vehicle Stability Control System
- Electronic Brake Force Distribution
- Front and Rear Limited Slip Differential
- 4-Wheel Anti-Lock Brakes
- Front Power 320-mm X 26-mm Disc and Rear Power 320-mm X 14-mm Disc Brakes
- Electronic Brake Assistance

Safety

- Side Head Curtain Airbags
- Rear Electronic Parking Aid With Ultrasonic Sensors
- Seat Mounted Front Side Airbags
- Driver Airbag With Dual Stage Deployment
- Passenger Airbag Cutoff Sensor
- Passenger Airbag With Dual Stage Deployment
- Front and Rear Passenger Outboard Automatic Locking Retractors
- Front Row Active Head Restraints
- Front Seatbelt Height Adjusters
- Second Row and Third Row 3-Point Center Seatbelt
- Front, Second Row and Third Row 3-Point Seatbelts For All Seating Positions
- Front Pretensioners With Force Limiters
- Side Guard Door Beams

Anti-Theft & Locks

- Vehicle Anti-Lockout
- Child Safety Door Locks Located On Rear Doors
- Power Door Locks
- Valet Lockout
- Vehicle Anti-Theft Via Engine Immobilizer and Alarm

Remote Controls & Remote Releases

- HomeLink(R) Universal Garage Door Opener
- Remote Keyless Entry Operated Via Key Fob
- Multi-Function Remote Operates Power Windows, Door Lock/Unlock and Alarm

Seats

- Front Driver Power Seat Adjusts 8 Ways Total
- Leather Seats
- Front Dual Power Reclining Heated Bucket Seats With Power Adjustable Seat Height, Adjustable Headrests, Passenger Folding Seat, Fold-Down Center Armrest and Driver Power Memory Seat



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- Third Row Hideaway Folding Bench Seat With Adjustable Headrests
- Second Row Dual Fold-Flat Reclining Captain Chairs With Adjustable Headrests
- Theater Style Rear Seating
- Easy Entry Seat Device
- Front Dual Manual Lumbar Support
- Front Passenger Power Seat Adjusts 6 Ways Total

Storage

- Glovebox
- Roof Rack
- Front Driver Seatback Pocket
- Overhead Console Storage
- Cargo Net
- Front Locking Storage
- Covered Lower Console Storage Located On Floor With Armrest
- Cargo Area Tiedown Hooks
- 6 Front , 6 Second Row and 2 Third Row Cupholders; 14 Cupholders Total
- Front and Rear Door Mounted Storage

Instrumentation

- Cruise Control
- Steering Wheel Mounted Controls For Cruise Control and Audio
- Compass
- Exterior Temperature Gauge
- Tire Pressure Monitor
- Oil Pressure Gauge
- Battery Gauge
- Digital Clock
- Automatic Transmission Temperature Gauge
- Tachometer

Interior Lighting

- Interior Load Area Light
- Front, Second and Third Row Reading Lights

Exterior Lighting

- Automatic Headlights With Automatic On/Off
- Front Halogen Foglights
- Halogen Headlights
- Perimeter Lighting Located Under Exterior Mirrors



Entertainment, Communication & Navigation

- Bose(R) AM/FM Radio With 265-Watts and 10 Speakers Total; 6-Disc CD Changer
- Second Row Sound Controls For Audio
- Subwoofer
- In-Glass Diversity Radio Antenna

Heating, Ventilation & Air Conditioning

- Rear Seat HVAC Controls
- Manual Air Conditioning
- Rear HVAC Ducts

Interior, Design, Decor & Floor Covering

- Leather Steering Wheel
- Adjustable Foot Pedals With Memory
- Second Row Removable Center Console Located On Floor
- Carpet Located In Passenger Cabin and Cargo Area
- Vinyl Door Trim With Leather Front Door Armrests

Doors

- Power Liftgate

Wheels & Tires

- 6-Spoke Alloy Wheels, 18-In. X 8-In.
- SBRP265/70R18 BSW Conti-Trac All-Season Tires
- Underbody Tire Carrier
- Full-Size Spare Tire

Windows, Mirrors & Wipers

- Rear Privacy Glass
- Electrochromic Interior Rearview Mirror
- Power Side Vent Windows
- Dual Chrome Power Adjustable Folding Heated Exterior Rearview Mirrors With Puddle Lights and Memory
- Flip-Up Liftgate Window
- Dual Illuminated Vanity Mirrors
- Power Window Lockout
- Power Windows With Front One-Touch Up, One-Touch Down and Pinch Protection
- Rear Window Defroster



- Front Green Tinted Glass
- Front Dual Sunvisors
- Variable Intermittent Windshield Wipers
- Rear Intermittent Window Wiper/Washer

Exterior, Design, Paint & Finish

- Chrome Front Bumper With Chrome Fascia
- Running Boards
- Rear Step Up Bumper
- Skid Plate Located On Oil Pan
- Front Airdam
- Front Chrome Door Handles and Rear Body Color Door Handles

MAINTENANCE

1.1 MAINTENANCE Package (Optional)

1.1.1 Maintenance Levels

The System Operators or Technical Personnel are responsible for the following Maintenance tasks and include the following:

- Preventive Maintenance such as Inspections.
- Preventive Maintenance such as Cleaning.
- Preventive Maintenance such as Services.
- Corrective Maintenance such as Replacement of Items with a High Failure Rate or Wear-out Rate and which can be replaced with ease.
- Corrective Maintenance by Replacement of LRU's (Line Replaceable Units, Assemblies, Sub-assemblies etc.) with a High Failure Probability, High Criticality and which are within the Capability.
- Recovery of Equipment from the Deployment or Units to a maintenance level for Corrective Maintenance.

1.1.2 Maintenance Equipment

Available at all repair facilities

- Operating Equipment and Accessories.
- Maintenance Equipment. (Toolboxes)
- Maintenance Items.(Service Packages)



- iv. Spares as required.
- v. Support Equipment as required.
- vi. Special Support and Test Equipment as required.
- vii. Common Support and Test Equipment as required.

1.2 MAINTENANCE ELEMENTS

1.2.1 Documentation

The following documentation is used for vehicle Maintenance:

- i. Operators Maintenance Manual (OMM) for the Operators Maintenance Tasks.
- ii. Maintenance Schedule for the definition of all Preventive Maintenance.
- iii. Workshop Repair Manual (WRM) for Technical Maintenance Tasks.
- iv. Illustrated Parts Breakdown (IPB) to identify Spare Parts.
- v. Illustrated Stock List (ISL) to identify Support Equipment and Spares.

1.2.2 Support Equipment

The following types of support equipment are used for Maintenance:

- i. Support Equipment carried in the Equipment ETS Boxes including Operating Equipment, Accessories and Maintenance Equipment.
- ii. Support Equipment as required for Preventive and Corrective Maintenance.
- iii. Support Equipment required and consists of Special Tools and Common Equipment which are within the Capability.

1.2.3 Spares

The following types of spares are required for Maintenance:

- i. Spares kept in the Equipment ETS Boxes.
- ii. Preventive and Corrective Maintenance Spares.

1.2.4 Personnel

The following operating and or technical personnel are located at all repair facilities:

- i. Auto Electricians for Vehicle and PSU Electrical.
- ii. Auto Mechanics for diesel and petrol engines.



Armoring

Vehicle Armoring is available in all different levels depending on customer preferences. For more information on armoring levels please visit www.mushriquiconsulting.com/armorlev.htm

NIJ Level III/B6 Armored Vehicles

SPECIFICATION SHEET

Protection System	NATO CLASS / HIGH LEVEL
Glass Areas	44 MM BULLET-RESISTANT TRANSPARENT ARMOR, MULTI-LAYER GLASS AND POLYCARBONATE INNER LAYER
Glass Appearance	GLASS IS CURVED AND CONTOURED TO RETAIN THE APPEARANCE OF THE ORIGINAL GLASS. ALL TRANSPARENT AREAS IS ARMORED TO LEVEL B6 WITH 44MM BALLISTIC AUTO GLASS.
Front Side Driver Window	OPERABLE TO 6 INCHES
Body Doors	PILLAR POSTS, SIDE PANELS, KICK-PANELS, FIREWALL, AND HEADERS (LATERALS) ARE ARMORED WITH BALLISTIC COMPOSITE MATERIAL EQUIVALENT MATERIAL OR AIR HARDENED HEAT TREATED BALLISTIC STEEL (NIJ LEVEL III AND EN 1063 B6 PROTECTION)
Roof	ARMORED WITH BALLISTIC COMPOSITE MATERIAL
Floor	FLOOR AREAS ARE ARMORED WITH MULTI-PLY RIGID BALLISTIC FRAGMENTATION MATERIAL COMBINED WITH KEVLAR MOLDED TO FORM FIT CONTOURS OF FLOOR BOARDS AND PANELS. DESIGNED TO DEFEAT THE FOLLOWING HAND GRENADES AND ALL LESSER EXPLOSIVES. TWO DM 51 (GERMAN NORM) HAND GRENADES PER SQ.M. DETONATED SIMULTANEOUSLY



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<p>Opaque Areas</p>	<p>PROTECTS AGAINST SOFT CORE PROJECTILES FIRED WITH THE FOLLOWING AND ALL LESSER WEAPONS AT 90° AND 45° (ROOF) IMPACT ANGLE IN ACCORDANCE WITH CEN.</p> <ol style="list-style-type: none"> 1. CALIBRE 7.62 X 39 MM, FJ/PB/SC, AK 47, (KALASHNIKOV) OBR-43 PS 2. CALIBRE 5.45 X 39.5 MM AP, FJ/PB/SCP, AKS 74, (KALASHNIKOV) OBR-74 3. CALIBRE 5.56 X 45 MM, FJ/PB/SCP, US RIFLE M16 A2, SS-109 /M-855 4. CALIBRE 7.62 X 51 MM, FJ/PB/SC, "FAL" / "LAR" NATO RIFLE 															
<p>Transparent Areas</p>	<p>PROTECTES AGAINST SOFT CORE PROJECTILES FIRED WITH THE FOLLOWING AND ALL LESSER WEAPONS AT 90° IMPACT ANGLE IN ACCORDANCE WITH CEN.</p> <ol style="list-style-type: none"> 1. CALIBRE 7.62 X 39 MM, FJ/PB/SC, AK 47, (KALASHNIKOV) OBR-43 PS 2. CALIBRE 5.45 X 39,5 MM AP, FJ/PB/SCP, AKS 74, (KALASHNIKOV) OBR-74 3. CALIBRE 5.56 X 45 MM, FJ/PB/SCP, US RIFLE M16 A2, SS-109 /M-855 4. CALIBRE 7.62 X 51 MM, FJ/PB/SC, (FN) "FAL" / "LAR" NATO RIFLE 															
<p>Transparent Areas Ballistic Properties</p>	<table border="1"> <thead> <tr> <th data-bbox="708 1188 867 1243">TYPE OF WEAPON</th> <th data-bbox="880 1188 1029 1243">CALIBER</th> <th data-bbox="1036 1188 1237 1243">BULLET</th> <th data-bbox="1243 1188 1377 1243">IMPACT SPEED</th> </tr> </thead> <tbody> <tr> <td data-bbox="708 1251 867 1348">RIFLE (E.G.: FAL G1)</td> <td data-bbox="880 1251 1029 1348">7.62 X 51, 305 MM LAY</td> <td data-bbox="1036 1251 1237 1474">STEEL FULL METAL JACKET, POINTED BULLET, SOFT CORE WITH LEAD</td> <td data-bbox="1243 1251 1377 1306">830 + 10 M/S</td> </tr> <tr> <td data-bbox="708 1482 867 1579">RIFLE (E.G.: US M16)</td> <td data-bbox="880 1482 1029 1579">5.56 X 45, 178 MM LAY</td> <td data-bbox="1036 1482 1237 1801">COPPER FULL METAL JACKET, POINTED BULLET, SOFT CORE WITH LEAD AND STEEL PENETRATOR SS109</td> <td data-bbox="1243 1482 1377 1537">950 + 10 M/S</td> </tr> </tbody> </table>	TYPE OF WEAPON	CALIBER	BULLET	IMPACT SPEED	RIFLE (E.G.: FAL G1)	7.62 X 51, 305 MM LAY	STEEL FULL METAL JACKET, POINTED BULLET, SOFT CORE WITH LEAD	830 + 10 M/S	RIFLE (E.G.: US M16)	5.56 X 45, 178 MM LAY	COPPER FULL METAL JACKET, POINTED BULLET, SOFT CORE WITH LEAD AND STEEL PENETRATOR SS109	950 + 10 M/S			
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<p>Certification</p>	<ul style="list-style-type: none"> • H. P. WHITE LABORATORIES U.S.A • UNITED STATES LABORATORY <p>THE COMPLETE TESTING STANDARDS SET OUT IN THE GUIDELINES REFERRED TO, AS WELL AS THE TEST PROTOCOL AND ALL CERTIFICATES, MAY BE VIEWED.</p>
<p>Suspension & Braking System</p>	<p>REAR STABILISER BAR UPGRADED TO A HEAVY DUTY MODEL</p> <p>BRAKING SYSTEM IS FULLY MODIFIED TO PERFORM UNDER ADDITIONAL ARMoured VEHICLE BODY.</p> <p>TIRES AND RIMS FITTED ARE FULLY APPROVED FOR THE HIGHER VEHICLE WEIGHT RATIO ACCORDING TO TÜV / MOT (DOT EQUIVALENT) TYPE RECOMMENDATIONS AND LEGAL REQUIREMENTS.</p> <p>MODIFICATIONS ARE CARRIED OUT TO ASSURE THAT THE VEHICLE PASSES THE VERY EXACT GERMAN TYPE APPROVAL.</p>
<p>Extra Security Equipment Fitted as a Standard to Vehicle</p>	<p>REINFORCED HINGES: SPECIALLY DESIGNED REINFORCED STRENGTHENED HEAVY DUTY DOOR HINGES A MINIMUM OF TWO EXTRA HINGES PER DOOR</p> <p>PROTECTED FUEL TANK: COMPLETELY ARMoured ACCORDING TO THE SPECIFICATIONS WITH LEVEL CEN B6. UTILIZING ARMORED STEEL</p> <p>PROTECTED VEHICLE MANAGEMENT SYSTEM (BLACK BOX): COMPLETELY ARMoured ACCORDING TO THE SPECIFICATIONS UTILIZING LEVEL CEN B6. WITH ARMORED STEEL</p> <p>RUN-FLAT TIRE SYSTEM: 50 KM DISTANCE AT 50 Km/H SPEED.</p> <p>REAR CARGO: 100% PROTECTION AGAINST FOREIGN PROJECTILES AND SPLINTERS. THE TRANSPARENT ARMOUR AREA PROVIDES REAR VIEW VISION WITH MINIMAL OBSTRUCTION.</p> <p>VEHICLE SUSPENSION STABILISING BARS: ROBUST HEAVY DUTY HARD WEARING COIL SYSTEM. OEM COMFORT STANDARDS ARE MAINTAINED WITH THIS FEATURE.</p>



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Optional Security Extras	<ul style="list-style-type: none"> • ALARM SIREN • BATTERY PROTECTION • BEACON CONNECTOR • BULL BAR • CENTRAL DOOR LOCKING • FIRE EXTINGUISHER SYSTEM • FLAG POLES • FOG LAMPS • HEAVY DUTY CAR JACK • 10 TON WRENCH • 4 WINDOW OPERABLE LIFTERS • INTERCOM / PUBLIC ADDRESSING SYSTEM • MAGNETIC BEACON <ul style="list-style-type: none"> • RADIO/CD COMBINATION • STALK MOUNTED MAP READING LAMP
Service Package	<p>Local Service Provided in Iraq (Baghdad, at Camp Victory & Camp Brooklyn and for all other locations in Iraq like Mosul, Tikrit, Basrah and Balad a team of engineers & technicians will be sent on a secure military base) Kuwait , Jordan, Egypt, U.A.E. , U.S.A. , Canada, Russia, Brazil, Mexico, Turkey, Sweden, France, Italy, Afghanistan, and Germany. All other countries are available upon request, All the above have the ability to conduct full warranty, maintenance & service for ballistic and non ballistic needs</p>
Strobe Lights	<p>BLUE OR RED LIGHTS VISIBLE OR NON-VISIBLE EXCEPT WHEN TURNED ON CAN BE MOUNTED TO THE VEHICLE TO DRAW ATTENTION IN STANDARD TRAFFIC SITUATIONS.</p>
Telephone / Radio Cable Preparation	<p>PRE-WIRING HAS BEEN LAID THROUGHOUT THE VEHICLE TO ASSIST FURTHER INSTALLMENT OF COMMUNICATION EQUIPMENT FOR ON BOARD TELEPHONE.</p>
Toolbox	<p>Standard Tools included for emergency situations</p>



Warranty

- 3 YEARS OR 60,000 KM WHICHEVER COMES FIRST
- WARRANTY FOR DEFECTS IN MATERIALS AND WORKMANSHIP AFTER TRANSFER OF RISK.
- SERVICES UNDER THE WARRANTY SHALL ONLY BE PROVIDED FREE OF CHARGE IF THE DEFECTS ARE PROVEN IN DESIGN, MATERIALS OR WORKMANSHIP.
- THE WARRANTY IS EXTENDED TO ANY PARTS INSTALLED WHEN REMEDYING THE DEFECTS UNTIL EXPIRE OF THE WARRANTY PERIOD.

SAMPLE (Pictures doesn't reflect car type)

		
REAR HATCH DOOR	BATTERY COMPARTMENT	DOORS
		
ROOF	FRONT COMPARTMENT	RUNFLATS