

# DODGE NITRO SPECIFICATIONS

## PRELIMINARY

The information below is preliminary and based on data available at the time of publication.

All dimensions are in inches (millimeters) at curb weight with standard wheels and tires unless otherwise noted.

## GENERAL INFORMATION

Body Style.....	Four-door sport-utility
Assembly Plant.....	Toledo North Assembly Plant, Toledo, Ohio
EPA Vehicle Class.....	Multi-purpose vehicle

## ENGINE: 3.7-LITER SOHC V-6

Availability.....	Nitro and Nitro SLT
Type and Description.....	90° V-6, liquid-cooled w/balance shaft
Displacement.....	225.8 cu. in. (3700 cu. cm)
Bore x Stroke.....	3.66 x 2.31 (93.0 x 90.8)
Valve System.....	Chain-driven SOHC, 12 valves, hydraulic end-pivot roller rockers
Fuel Injection.....	Sequential, multi-port, electronic, returnless
Construction.....	Cast iron block and bedplate, aluminum alloy heads, balance shaft
Compression Ratio.....	9.6:1
Power (SAE net).....	210 hp (157 kW) @ 5,200 rpm
Torque (SAE net).....	235 lb.-ft. (319 N•m) @ 4,000 rpm

Max. Engine Speed .....	6,000 rpm (electronically limited)
Fuel Requirement .....	Unleaded regular, 87 octane (R+M)/2
Oil Capacity.....	5.0 qt. (4.7L) SAE 5W/30
Emission Controls.....	2, mini-oxidation & 2, 3-way catalytic converters; 4 heated oxygen sensors, EGR & internal engine features <sup>1</sup>
Alternator .....	160 A
Battery .....	600 CCA, maintenance-free
Estimated EPA Fuel Economy mpg (city/hwy) .....	Automatic/Manual 18/23
Assembly Plant .....	Mack Avenue Engine Plant

### **ENGINE: 4.0-LITER SOHC V-6**

Availability .....	Standard on Nitro R/T
Type and Description.....	60-degree bank angle, liquid-cooled, with three-plenum intake manifold, electronically controlled manifold tuning valve and short-runner valves
Displacement .....	241.2 cu. in. (3952 cu. cm)
Bore x Stroke.....	3.78 x 3.58 (96 x 91)
Valve System.....	SOHC, 24 valves, hydraulic, center-pivot roller rocker arms
Fuel Injection .....	Sequential, multi-port, electronic
Construction .....	Semi-permanent molded aluminum block with cast iron liners and cast aluminum heads
Compression Ratio.....	10.3:1
Power (SAE net, estimated) .....	255 hp (190 kW) @ 5,800 rpm
Torque (SAE net, estimated) .....	275 lb.-ft. (360 N•m) @ 4,000 rpm
Max. Engine Speed .....	5,800 rpm (electronically limited)

<sup>1</sup> Meets ULEV II emission standard in all 50 states

Fuel Requirement .....	Unleaded mid-grade, 89 octane (R+M)/2 – preferred, unleaded regular, 87 octane (R+M)/2 – acceptable
Oil Capacity.....	6 qt. (5.7L) with dry filter
Coolant Capacity.....	10.3 qt. (9.75L)
Emission Controls .....	Maniverter 3-way catalytic converters, quad-heated oxygen sensors and internal engine features <sup>2</sup>
Alternator .....	160 A
Battery.....	600 CCA, maintenance-free
Estimated EPA Fuel Economy mpg (city/hwy) .....	Automatic 17/21
Assembly Plant .....	Trenton Engine Plant

### **TRANSMISSION: NSG 370 MANUAL SIX-SPEED OVERDRIVE**

Availability .....	3.7-liter SOHC V-6
Description.....	Synchronized in all forward gears and reverse, multi-rail shift system with top-mounted shift lever
Clutch .....	Hydraulic actuation, dual mass flywheel system
Gear Ratios	
1st.....	4.46
2nd.....	2.61
3rd.....	1.72
4th.....	1.25
5th.....	1.00
6th.....	0.84
Reverse.....	4.06
Axle .....	3.21 with 3.7-liter SOHC V-6
Overall Top Gear .....	2.70 with 3.7-liter SOHC V-6

<sup>2</sup> Meets Federal Tier 2, Bin 8 emissions requirements; marketed in California as an ULEV1 (Ultra-Low Emission Vehicle) under cleanest vehicle rules

### **TRANSMISSION: 42RLE – AUTOMATIC FOUR-SPEED OVERDRIVE**

Availability .....	Optional with 3.7-liter SOHC V-6
Description.....	Adaptive electronic control, electronically controlled converter clutch
Gear Ratios	
1st.....	2.84
2nd.....	1.57
3rd.....	1.0
4th.....	0.69
Reverse.....	2.21
Axle Ratio .....	3.73
Overall Top Gear .....	2.57

### **TRANSMISSION: A 580 – AUTOMATIC FIVE-SPEED OVERDRIVE**

Availability .....	Standard on 4.0-liter SOHC V-6
Description.....	Adaptive electronic control, Electronic Range Select (ERS) and electronically modulated torque converter clutch
Gear Ratios	
1st.....	3.59
2nd.....	2.19
3rd.....	1.41
4th.....	1.00
5th.....	0.83
Reverse.....	3.16
Axle .....	3.55 with 4.0-liter SOHC V-6
Overall Top Gear .....	2.95 with 4.0-liter SOHC V-6

### **TRANSFER CASE: MP 143 GII SINGLE-SPEED**

Availability .....	Included on 4WD with manual transmission
Type .....	Part-time
Operating Ranges .....	2WD, 4WD part-time, electronically shifted
Center Differential Type .....	N/A
Torque Split, F/R .....	50/50

### **TRANSFER CASE: MP 140 GII SINGLE-SPEED**

Availability .....	Included on 4WD with automatic transmission
Type .....	Full-time
Operating Ranges .....	4WD full-time
Center Differential Type .....	Planetary
Torque Split, F/R .....	48/52

**SPECS**

## DIMENSIONS AND CAPACITIES

### General

Wheelbase .....	108.8 (2763.0)
Track, Front .....	61.0 (1549.4)
Track, Rear .....	61.0 (1549.4)
Overall Length .....	178.9 (4544.0)
Overall Width .....	73.1 (1856.9)
Overall Height .....	69.9 (1775.8)
Approach Angle, degrees .....	25.6
Breakover Angle, degrees .....	22.0
Departure Angle, degrees .....	26.7
Aero CdA .....	11.7
Aero Cd .....	0.39
Fuel Tank Capacity .....	19.5 gal. (74.0L)
Maximum Payload, lbs. (kg), Includes Occupants and Cargo .....	1,150 lbs. (590 kg)
Towing Capacities, lbs. (kg)	
3.7L Gasoline Engine, Manual Transmission .....	2,000 (907)
3.7L Gasoline Engine, Manual Transmission w/Trailer Tow Package .....	3,500 (1588)
3.7L and 4.0L Gasoline Engine, Automatic Transmission .....	2,000 (907)
3.7L and 4.0L Gasoline Engine, Automatic Transmission w/Trailer Tow Package .....	5,000 (2268)

Weights, curb, base vehicle, lbs. (kg)

3.7L Gasoline Engine, 2WD.....	Nitro, manual transmission – 3931.9 (1783.5)
	Nitro SLT, automatic transmission – 3982.4 (1806.4)
3.7L Gasoline Engine, 4WD.....	Nitro, manual transmission – 4105.3 (1862.2)
	Nitro SLT, automatic transmission – 4161.8 (1887.8)
4.0L Gasoline Engine, 2WD.....	Nitro R/T, automatic transmission – 3971.3 (1801.4)
4.0L Gasoline Engine, 4WD.....	Nitro R/T, automatic transmission – 4150.9 (1882.8)

## ACCOMMODATIONS

Seating Capacity – F/R..... 2/3

### Front Row

Head Room .....	40.6 (1032.1)
Leg Room .....	40.8 (1036.4)
Shoulder Room .....	57.2 (1452.2)
Hip Room .....	56.8 (1443.9)
Seat Travel .....	9.0 (229.1)
Recliner Range .....	6.6° to 51.6°

### Second Row

Head Room.....	40.8 (1036.5)
Leg Room.....	37.7 (946.3)
Shoulder Room .....	56.4 (1433.4)
Hip Room .....	47.4 (1202.9)

### Cargo Volume, cu. ft. (cu. m)

Behind Rear Seat .....	32.1 (0.9)
With Rear Seat Folded .....	65.2 (1.8)
With Front Passenger and Rear Seats Folded .....	75.6 (2.1)

## BODY/CHASSIS

Layout ..... Longitudinal front engine, rear-wheel drive or four-wheel drive  
Construction ..... Steel unibody

## SUSPENSION

Front ..... Upper and lower "A" arms, coil springs, low-pressure  
gas-charged shock absorbers, stabilizer bar  
Rear ..... Live axle, upper and lower trailing arms, track bar, coil springs,  
stabilizer bar, low-pressure gas-charged shock absorbers

## STEERING

Type ..... Power rack-and-pinion  
Overall Ratio ..... 17.36:1  
Turning Diameter (curb-to-curb) ..... 36.3 ft. (11.1 m)  
Steering Turns (lock-to-lock) ..... 3.42

SPLITS



## BRAKES

Power Assist Type ..... 10 (254) single-diaphragm vacuum

Four-Wheel Anti-Lock (ABS)..... Standard on all

Electronic Stability Program (ESP)..... Standard on all

Parking Brake Type..... Drum-in-hat

### Front

Size and Type ..... 11.9 x 1.1 (302 x 28) vented rotor with 2.6 (66) single-piston  
floating caliper

Swept Area (total front)..... 190.8 sq. in. (1231.0 sq. cm)

### Rear

Size and Type ..... 12.44 x 0.47 (316 x 12) solid rotor with 1.9 (48) single-piston  
floating caliper

Swept Area (total rear)..... 55.4 sq. in. (357.6 sq. cm)

SPECS

## WHEELS

Type and Material .....	Painted steel, Sparkle Silver
Size .....	16 x 7.0
Availability .....	Standard Nitro
Type and Material .....	Painted cast aluminum, Sparkle Silver
Size .....	16 x 6.5
Availability .....	Optional Nitro
Type and Material .....	Painted cast aluminum, Sparkle Silver
Size .....	17 x 7.0
Availability .....	Standard Nitro SLT, optional Nitro
Type and Material .....	Chrome-clad cast aluminum
Size .....	17 x 7.0
Availability .....	Optional Nitro SLT
Type and Material .....	Chrome-clad cast aluminum
Size .....	20 x 7.5
Availability .....	Standard R/T, optional Nitro SLT
Type and Material .....	Platinum cast aluminum
Size .....	20 x 7.5
Availability .....	Optional Nitro R/T

## **TIRES**

Size and Type .....	P225/75R16, all season, black side wall
Model .....	Goodyear Wrangler ST
Revs/Mile (Km) .....	712 (1146)
Availability .....	Standard Nitro
Size and Type .....	P235/65R17, outline white letters
Model .....	Goodyear Performance Wrangler HP
Revs/Mile (Km) .....	721 (1160)
Availability .....	Optional Nitro
Size and Type .....	P235/65R17, vertically serrated band
Model .....	Goodyear Wrangler HP
Revs/Mile (Km) .....	721 (1160)
Availability .....	Standard Nitro SLT, optional Nitro
Size and Type .....	P245/50R20, all season, black side wall
Model .....	Goodyear Eagle HP
Revs/Mile (Km) .....	700 (1126)
Availability .....	Standard Nitro R/T, optional Nitro SLT