# 2023 Wagoneer / Grand Wagoneer

## SPECIFICATIONS

Specifications are based on the latest product information available at the time of publication.  
All dimensions are in inches (millimeters) unless otherwise noted.  
All dimensions measured at curb weight with standard tires and wheels.

### GENERAL INFORMATION

Vehicle Type Four-door sport-utility vehicle

Assembly Plant Warren Truck Assembly Plant, Warren, Michigan

EPA Vehicle Class Multipurpose vehicle

Introduction Date Fall 2022 as a 2023 model

### BODY AND CHASSIS

Layout Front engine, rear- or four-wheel drive

Construction Steel frame

### ENGINE: 5.7-liter HEMI® V-8 WITH ETORQUE HYBRID ASSIST

Availability Standard — Wagoneer

Type and Description 90-degree V-8 with variable cam timing

Hybrid Battery 48-volt, 12-cell lithium-ion, nickel manganese cobalt (NMC)   
graphite chemistry, 390Wh

Belt-starter Generator 12kW power, 130 lb.-ft. launch torque

Displacement 345 cu. in. (5,654 cu. cm)

Bore x Stroke 3.92 x 3.58 (99.5 x 90.9)

Valve System Variable-cam timing, pushrod-operated overhead valves,   
16 valves, hydraulic lifters with roller followers

Fuel Injection Sequential, multiport, electronic, returnless

Construction Deep-skirt cast-iron block with cross-bolted main bearing caps,   
aluminum-alloy heads with hemispherical combustion chambers

Compression Ratio 10.5:1

Power 392 hp (292 kW) @ 5,600 rpm

Torque 404 lb.-ft. (548 N•m) @ 3,950 rpm

Max. Engine Speed 5,800 rpm

Fuel Requirement Unleaded mid-grade, 89 octane (R+M)/2 — recommended

Unleaded regular, 87 octane (R+M)/2 — acceptable

### ENGINE: 5.7-liter HEMI® V-8 WITH ETORQUE HYBRID ASSIST (continued)

Oil Capacity 7.0 quarts (6.6 liters)

Coolant Capacity 18.2 quarts (17.2 liter)

Factory Oil Fill Pennzoil Gold 0W-20

Emission Controls Three-way catalytic converters, heated oxygen sensors   
and internal engine features

EPA Fuel Economy mpg (city/hwy) 4x2: 16/22/18, 4x4: 15/20/17

Assembly Plant Saltillo Engine Plant, Saltillo, Mexico

### ENGINE: 3.0-liter HURRICANE TWIN TURBO

Availability Standard — Wagoneer Series II, Carbide, Series III

Type and Description Inline six-cylinder (I-6), twin turbocharged, direct injection, gasoline

Displacement, cu. in. (cu.cm.) 183 cu. in. (2.993 cu. cm)

Bore x Stroke, in. (mm) 3.31” x 3.54” (84.0mm x 90.0mm)

Valve System DOHC, dual independent valve timing, hydroformed tubular camshafts, 24 valves with sodium-filled exhaust valves, roller finger followers, hydraulic lash adjusters

Fuel Injection Gasoline direct injection, centrally located injectors, single high-pressure pump providing up to 5,075 psi (350 bar) to a single fuel rail

Construction Deep-skirt cast-aluminum block with cross-bolted steel main bearing caps, low friction plasma spray-bore coated cylinders, structural die-cast aluminum alloy oil pan, aluminum alloy head with pent-roof combustion chambers, forged and twisted steel crankshaft, forged steel connecting rods, cast aluminum alloy pistons with DLC coated piston pins

Compression Ratio 10.4:1

Power (SAE J2723) 420 hp (313 kW) @ 5,200 rpm

Torque (SAE J2723) 468 lb.-ft. (635 N•m) @ 3,500 rpm

Max. Engine Speed 5,800 rpm (electronically limited)

Fuel Requirement Unleaded mid-grade, 89 octane (R+M)/2 — recommended

Unleaded regular, 87 octane (R+M)/2 — acceptable

Oil Capacity 7.5 quarts (7.1 liters) oil change with filter

Coolant Capacity qt (Liter) High temp. circuit: 16.6 (15.7) low temp. circuit: 2.85 (2.70)

Factory Oil Fill Pennzoil Ultra Platinum 0W-20 GF6+ (API SP)

Emission Controls Dual close-coupled two-stage three-way catalytic converters, quad-heated oxygen sensors, cooled exhaust gas recirculation and internal engine features

EPA Fuel Economy mpg (city/hwy/combined) 4x2: 17/24/20, 4x4: 16/23/19

Assembly Plant Saltillo Engine Plant, Saltillo, Mexico

### ENGINE: 3.0-liter HURRICANE TWIN TURBO 510

Availability Standard — Grand Wagoneer Series II, Series III

Type and Description Inline, liquid-cooled

Displacement, cu. in. (cu. cm.) 183 (2,993)

Bore x Stroke 3.31”x 3.54” (84.0mm x 90.0mm)

Valve System DOHC, dual independent valve timing, hydroformed tubular camshafts, 24 valves with sodium-filled exhaust valves, roller finger followers, hydraulic lash adjusters

Fuel Injection Gasoline direct injection, centrally located injectors, dual high-pressure pumps providing up to 5,075 psi (350 bar) to a single fuel rail

Construction Deep-skirt cast-aluminum block with cross-bolted steel main bearing caps, low friction plasma spray-bore coated cylinders, structural die-cast aluminum alloy oil pan, aluminum alloy head with pent-roof combustion chambers, forged and twisted steel crankshaft, forged steel connecting rods, forged aluminum alloy pistons with DLC coated piston pins

Compression Ratio 9.5:1

Power (SAE J2723) 510 hp (375 kW) @ 5,700 rpm

Torque (SAE J2723) 500 lb.-ft. (678 N•m) @ 3,500 rpm

Max. Engine Speed 6,100 rpm (electronically limited)

Fuel Requirement Premium 91 octane (R+M)/2 — required

Oil Capacity 7.5 quarts (7.1 liters) oil change with filter

Coolant Capacity, qt. (liter) High temp. circuit: 16.6 (15.7)  
Low temp. circuit: 2.85 (2.70)

Factory Oil Fill Pennzoil Ultra Platinum 0W-40 API SP MS-A0921

Emission Controls Dual close-coupled two-stage three-way catalytic converters, quad-heated oxygen sensors and internal engine features(a)

Exhaust Type Dual exhaust with black dual hidden tail pipes

EPA Fuel Economy mpg (city/hwy/combined) 4x4: 14/20/17

Assembly Plant Saltillo Engine Plant, Saltillo, Mexico

### ENGINE: 6.4-LITER V-8

Availability Standard – Grand Wagoneer, Optional — Grand Wagoneer Obsidian

Type and Description 90-degree V-type, liquid-cooled

Displacement, cu. in. (cu. cm.) 392 (6,417)

Bore x Stroke 4.09 x 3.72 (103.9 x 94.6)

Valve System Pushrod-operated overhead valves, 16 valves with sodium-filled exhaust valves and hollow stem intake valves, 16 conventional hydraulic lifters, all with roller tips

Fuel Injection Sequential, multi-port, electronic, returnless; features Fuel Saver mode

### ENGINE: 6.4-LITER V-8 (continued)

Construction Deep-skirt cast-iron block with cross-bolted main bearing caps,   
aluminum alloy heads with hemispherical combustion chambers

Compression Ratio 10.9:1

Power (SAE J2723) 471 hp (351 kW) @ 6,000 rpm

Torque (SAE J2723) 455 lb.-ft. (617 N•m) @ 4,400 rpm

Max. Engine Speed 5,600 rpm (electronically limited)

Fuel Requirement Premium 91 octane (R+M)/2 — recommended

Oil Capacity 7.0 quarts (6.6 liters)

Coolant Capacity 19.1 quarts (18.1 liters)

Factory Oil Fill Pennzoil Ultra Platinum 0W-40

Emission Controls Dual close-coupled three-way catalytic converters,   
quad-heated oxygen sensors and internal engine features(a)

Exhaust Type Dual exhaust with dual four-inch oval black chrome tips

EPA Fuel Economy mpg (city/hwy/combined) 4x4: 13/18/15

Assembly Plant Saltillo Engine Plant, Saltillo, Mexico

(a) Meets Federal Tier 3, Bin 70 emissions requirements; marketed in California as a LEV III ULEV70 (Ultra Low Emission Vehicle).

### TRANSMISSION: TORQUEFLITE 8HP75 AUTOMATIC, EIGHT-SPEED OVERDRIVE

Availability Standard — all engines

Description Five clutches and four planetary gear set architecture. 7.03 overall ratio spread. Start/stop and electronic range select capability. Electronically modulated torque converter clutch with torsional turbine damper

Gear Ratios

1st 4.71

2nd 3.14

3rd 2.11

4th 1.67

5th 1.29

6th 1.00

7th 0.84

8th 0.67

Reverse 3.30

### TRANSFER CASE: 1-SPEED

Availability Optional — 5.7-liter V-8 and 3.0-liter Hurricane Twin Turbo

Type Single-speed

Operating Mode Full-time active 4x4

Torque Split, Front/Rear Variable - Auto, Tow, Snow, Mud, Sand, Sport

Low Range Ratio None

### TRANSFER CASE: 2-SPEED

Availability Optional — 5.7-liter V-8 and 3.0-liter Hurricane Twin Turbo

Standard — 3.0-liter Hurricane Twin Turbo 510

Standard — 6.4-liter V-8

Type Two-speed electronically shifted

Operating Modes 4x4 Low Active, Neutral, full-time active 4x4

Torque Split, Front/Rear Variable — Auto, Tow, Snow, Mud, Sand, Rock, Sport

Low Range Ratio 2.64

### AXLES

Front

Differential type Open

Availability Standard on 4x4 models

Ring gear diameter 8.5 (215mm)

Axle ratios 3.21:1 — Standard with 5.7-liter V-8

3.55:1 — Standard with 3.0-liter Hurricane Twin Turbo

3.92:1 — Optional with 3.0-liter Hurricane Twin Turbo   
standard with 6.4-liter V-8 and 3.0-liter Hurricane Twin Turbo 510

Rear

Differential type Limited Slip or Electronic Limited Slip (ELSD)

Availability Limited Slip Differential — Standard with 5.7-liter V-8 and 3.0-liter Hurricane Twin Turbo

Electronic Limited Slip Differential (ELSD) — Optional with 3.0-liter Hurricane Twin Turbo, Standard with 6.4-liter V-8 and 3.0-liter Hurricane Twin Turbo 510

Ring gear diameter (in/mm) 10.2 (260mm)

Axle ratios 3.21:1 — Standard with 5.7-liter V-8

3.55:1 — Standard with 3.0-liter Hurricane Twin Turbo

3.92:1 — Optional with 3.0-liter Hurricane Twin Turbo, standard with 6.4-liter V-8 and 3.0-liter Hurricane Twin Turbo 510

### ELECTRICAL SYSTEM

Alternator 240-amp — standard 5.7L and 6.4L,   
230-amp — standard 3.0L and 3.0L 510

Battery Maintenance-free

H7 730 CCA — standard 5.7L  
H8 AGM 800 CCA — standard 6.4L  
H7 AGM 700 CCA — standard 3.0L and 3.0L 510 with Aux AGM 200 CCA

### SUSPENSION

Front Short- and long-arm independent with hybrid steel composite upper control arm, aluminum lower control arm, aluminum knuckle, coil springs with monotube shocks or Quadra-lift air suspension with   
semi-active damping, solid or hollow stabilizer bar

Rear Five-link independent rear suspension, coil springs with monotube load leveling shocks or Quadra-lift air suspension with semi-active damping, solid or hollow stabilizer bar, cast aluminum links (tension, compression, camber, toe), high-strength steel spring link

### STEERING

Type Electric rack-and-pinion steering

Overall Ratio 16.7:1

Turning Diameter (curb-to-curb) (ft./m) 40.2 (12.3)

Steering Turns (lock-to-lock) 3.2

### BRAKES

Type Electronic power brakes (eBooster), antilock brake system (ABS)

Availability Standard

Front

Rotor size and type Inches (mm) 14.88 x 1.18 (378 x 30) vented disc

Caliper size and type Inches (mm) 2.24 (57) two-piston pin-slider caliper

Swept area, (sq. in. / sq. cm) 100.9 (651.5)

Rear

Rotor size and type Inches (mm) 14.76 x 0.87 (375 x 22) solid disc

Caliper size and type Inches (mm) 2.24 (57) single-piston pin-slider caliper with EPB

Swept area, (sq. in. / sq. cm) 79.2 (511.6)

### DIMENSIONS AND CAPACITIES

Wheelbase 123.0 (3,124)

Track, Front 68.4 (1,738)

Track, Rear 68.3 (1,734)

Overall Length 214.7 (5,453)

Overall Width (width at mirrors) 94.0 (2,388)

Body Width 83.6 (2,124)

Overall Height (at roof rail / at antenna) 79.7 (2,025) / 77.3 (1,964)

Load Floor Height 34.0 (864) — standard suspension

31.9 (810) — air suspension

Sill Step Height 22.8 (579) — standard suspension

21.1 (537) — air suspension

Ground Clearance (with 275/55R20   
tire and 5.7-liter engine) 8.3 (211) — standard suspension

10.0 (254) — air suspension (Pos#2)

Chassis (fuel tank) 9.7 (246) — standard suspension

10.9 (277) — air suspension (Pos#2)

Front Axle 9.6 (243) — standard suspension

11.6 (294) — air suspension (Pos#2)

Rear Axle 9.0 (229) — standard suspension

11.0 (279) — air suspension (Pos#2)

Approach Angle (degrees) 21.5 — standard suspension

25.0 — air suspension (Pos#2)

25.0 (Off-road II with air dam on)

Ramp Breakover Angle (degrees) 18.5 — standard suspension

22.0 — air suspension (Pos#2)

Departure Angle (degrees) 21.1 — standard suspension

24.0 — air suspension (Pos#2)

Frontal Area, sq. ft. (sq. m) 37.2 (3.46)

Drag Coefficient (Cd) 0.352 — Wagoneer

0.364 — Grand Wagoneer

Aero CdA, sq. ft. (sq. m) 13.1 (1.22) — Wagoneer

13.5 (1.26) — Grand Wagoneer

Fuel Tank Capacity, (gallons / liter) 26.5 (100.3)

### ACCOMMODATIONS

Seating Capacity **Wagoneer**

Standard — 2/3/3 (including second-row bench)

Optional — 2/2/3 (including captain’s chairs)

**Grand Wagoneer**

Standard — 2/2/3 (including captain’s chairs)

Optional — 2/3/3 (including second-row bench)

SAE Total Interior Passenger Volume,   
(cu. ft. / cu. m) 179.2 (5.1) Wagoneer / 172.8 (4.9) Grand Wagoneer

Front

Headroom 41.3 (1,049) Wagoneer / 39.3 (998) Grand Wagoneer

Legroom 40.9 (1,040)

Shoulder room 66.1 (1,680)

Hip room 63.4 (1,610)

Seat travel 8.1 (207)

EPA front volume index (cu. ft. / cu. m) 64.7 (1.8) Wagoneer / 61.6 (1.7) Grand Wagoneer

Cargo volume behind first-row seats   
(cu. ft. / cu. m) 116.7 (3.3) Wagoneer / 96.9 (2.7) Grand Wagoneer

Second Row

Headroom 40.0 (1,016) Wagoneer / 38.4 (975) Grand Wagoneer

Legroom 42.7 (1,085)

Knee clearance 6.7 (170) Wagoneer / 5.6 (143) Grand Wagoneer

Shoulder room 65.2 (1,657)

Hip room 63.0 (1,599)

EPA second-row seat volume index   
(cu. ft. / cu. m) 64.5 (1.8) Wagoneer / 61.9 (1.8) Grand Wagoneer

Cargo volume behind second-row seats   
(cu. ft. / cu. m) 70.8 (2.0) Wagoneer / 72.9 (2.1) Grand Wagoneer

Third Row

Headroom 39.0 (991) Wagoneer / 38.5 (977) Grand Wagoneer

Legroom 36.6 (930)

Knee clearance 1.9 (47)

Shoulder room 64.4 (1,635)

Hip room 51.6 (1,310)

### ACCOMMODATIONS (continued)

EPA third-row seat volume index   
(cu. ft. / cu. m) 50.0 (1.4) Wagoneer / 49.3 (1.4) Grand Wagoneer

Cargo volume behind third-row seats   
(cu. ft. / cu. m) 27.4 (0.8) Wagoneer / 28.4 (0.8) Grand Wagoneer

Total passenger plus cargo volume   
(cu. ft. / cu. m) 206.6 (5.9) Wagoneer / 201.2 (5.7) Grand Wagoneer

### WEIGHTS (Estimates)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| WHEEL BASE | DRIVE SYSTEM | MODEL | ENGINE | GVWR lbs. | CURB WEIGHT(b) | PAYLOAD(c) lbs. | WEIGHT DISTRIBUTION, F/R |
| 123” | 2WD | Wagoneer | 5.7L | 7,400 | 5,960 | 1,510 | 51/49 |
|  |  | Wagoneer Series II | 3.0L | 7,300 | 5,825 | 1,550 | 51/49 |
| Wagoneer Series III | 3.0L | 7,400 | 5,864 | 1,610 | 50/50 |
| 4WD | Wagoneer | 5.7L | 7,650 | 6,190 | 1,550 | 52/48 |
|  | Wagoneer Series II | 3.0L | 7,400 | 5,981 | 1,510 | 52/48 |
| Wagoneer Series III | 3.0L | 7,500 | 6,092 | 1,490 | 51/49 |
| Grand Wagoneer | 6.4L | 7,700 | 6,340 | 1,450 | 51/49 |
| Grand Wagoneer Series II | 3.0L 510 | 7,800 | 6,412 | 1,470 | 51/49 |
| Grand Wagoneer Series II | 6.4L | 7,800 | 6,474 | 1,410 | 51/49 |
| Grand Wagoneer Series III | 3.0L 510 | 7,800 | 6,431 | 1,460 | 51/49 |
| Grand Wagoneer Series III | 6.4L | 7,800 | 6,493 | 1,390 | 51/49 |

(b) Curb weight includes standard equipment and full quantities of fuel, lubricant and coolant.  
(c) Payload is the maximum allowable weight of driver, passengers, cargo, and options, rounded to the nearest 10 lbs. (5kg).

### Wheels

Availability Standard on Wagoneer

Type and material Fully painted Satin Carbon finish, six spoke

Size (in.) 18 x 8

### Wheels (continued)

Availability Optional on Wagoneer

Type and material Machined cast aluminum with Black Noise painted pockets, six spoke

Size (in.) 20 x 9

Availability Standard on Wagoneer Series II

Type and material Machined cast aluminum with Black Noise painted pockets, six spoke

Size (in.) 20 x 9

Availability Standard on Wagoneer Series III

Type and material Machined cast aluminum with Satin Granite crystal pockets, six spoke

Size (in.) 20 x 9

Availability Standard on Grand Wagoneer

Type and material Machined cast aluminum with Baltic Gray painted pockets

Size (in.) 20 x 9

Availability Standard on Grand Wagoneer Series II, optional on Grand Wagoneer

Type and material Polished aluminum with Luster Gray painted pockets

Size (in.) 22 x 9

Availability Standard on Grand Wagoneer Series III

Type and material Polished aluminum with Lights Out painted pockets

Size (in.) 22 x 9

Availability Optional on Wagoneer Series II, optional on Wagoneer Series III

Type and material Polished aluminum with Black Noise painted pockets

Size (in.) 22 x 9

Availability Optional on Grand Wagoneer Series II

Type and material Painted cast aluminum Satin Carbon with chrome inserts

Size (in.) 22 x 9

Availability Optional on Grand Wagoneer Series III

Type and material Machined cast aluminum with Black Noise painted pockets and   
brushed nano steel inserts

Size (in.) 22 x 9

Availability Optional with Off-road Package

Type and material Machined cast aluminum with Black Noise painted pockets

Size (in.) 18 x 8

### Wheels (continued)

Availability Standard Carbide

Type and material Cast aluminum fully painted with Gloss Black

Size (in.) 20 x 9

Availability Optional Carbide

Type and material Cast aluminum Fully painted with Gloss Black

Size (in.) 22 x 9

Availability Standard Obsidian

Type and material Fully painted with Gloss Black smooth Inserts

Size (in.) 22 x 9

### TIRES

Availability Standard – Wagoneer

Size and type 275/65R18

Mfr. and model Bridgestone Dueler H/T All Season

Revs per mile 653

Availability Standard – Wagoneer Series II, Wagoneer Series III

Size and type 275/55R20

Mfr. and model Nexen Roadian HTX RH5 All Season

Revs per mile 656

Availability Standard – Grand Wagoneer; Packaged – HD Trailer Tow,   
Premium Group I

Size and type 275/55R20

Mfr. and model Bridgestone Dueler H/L Alenza All Season T Rated for NA

Revs per mile 655

Availability Standard – Grand Wagoneer Series II, Grand Wagoneer Series III;   
Packaged – Premium Group I

Size and type 285/45R22XL

Mfr. and model Goodyear Eagle Touring All Season/Perf

Revs per mile 639

Availability Packaged – Advanced All Terrain Group

Size and type 275/65R18

Mfr. and model Firestone Destination AT2 All Terrain

Revs per mile 651

### TIRES (CONTINUED)

Parking Brake Type Electric power steering (standard)

Four-wheel Antilock Brakes Standard

Electronic Stability Control Standard

All-speed Traction Control Standard

Brake Assist Standard

### TRAILER TOWING

|  |  |  |  |
| --- | --- | --- | --- |
| DRIVE SYSTEM | ENGINE | AXLE RATIO | MAXIMUM TRAILER WEIGHT lbs. |
| 2WD | 5.7L | 3.21 | 10,000 |
|  | 3.0L | 3.92 | 10,000 |
| 4WD | 5.7L | 3.21 | 10,000 |
|  | 3.0L | 3.92 | 10,000 |
|  | 3.0L 510 | 3.92 | 9,800 |
|  | 6.4L | 3.92 | 9,850 |

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