# 2022 Jeep® Grand Cherokee

## 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 Detroit Assembly Complex – Mack Plant, Detroit, Michigan

EPA Vehicle Class Multipurpose vehicle

Introduction Date September 2021 as a 2022 model

### BODY AND CHASSIS

Layout Front engine, rear- or four-wheel drive

Construction Steel uniframe

### ENGINE: 3.6-LITER PENTASTAR V-6

Availability Standard — Laredo, Limited, Trailhawk, Overland and Summit

Type and Description 60-degree V-type, liquid-cooled

Displacement 220 cu. in. (3,604 cu. cm)

Bore x Stroke 3.78 x 3.27 (96 x 83)

Valve System Chain-driven DOHC, 24 valves and hydraulic end-pivot roller rockers

Fuel Injection Sequential, multiport, electronic, returnless

Construction Aluminum deep-skirt block, aluminum alloy heads

Compression Ratio 11.3:1

Power (SAE J2723) 293 hp @ 6,400 rpm

Torque (SAE J2723) 260 lb.-ft. @ 4,000 rpm

Max. Engine Speed 6,700 rpm (electronically limited)

Fuel Requirement Unleaded regular, 87 octane (R + M)/2

Oil Capacity 5.0 quarts (4.7 liters)

Coolant Capacity 14.0 quarts (13.25 liters)

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

Max. Gross Trailer Weight 6,200 lbs. — 2WD and 4WD

EPA Fuel Economy mpg (city/hwy/combined) 19/26/22 — 2WD

19/26/22 — 4WD

Assembly Plant Saltillo South Engine Plant, Saltillo, Mexico

### ENGINE: 5.7-LITER V-8

Availability Optional — Trailhawk, Overland and Summit (4x4 models only)

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

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

Bore x Stroke 3.92 x 3.58 (99.5 x 90.9)

Valve System Variable-valve timing (VVT), pushrod-operated overhead valves,   
16 valves, eight deactivating and eight conventional hydraulic lifters,   
all with roller followers

Fuel Injection Sequential, multi-port, 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 (SAE J2723) 357 hp (268 kW) @ 5,150 rpm

Torque (SAE J2723) 390 lb.-ft. (520 N•m) @ 4,250 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 quarts (6.6 liters)

Coolant Capacity 14.5 quarts (13.72 liters)

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

Max. Gross Trailer Weight 7,200 lbs. (4x4)

EPA Fuel Economy mpg (city/hwy/combined) 14/22/17 — 4WD

Assembly Plant Saltillo North Engine Plant, Saltillo, Mexico

(a) Meets Calif. LEV II+ evaporative emission requirements in CA, NY, MA, ME, VT and Federal Bin 5+ Tier II emissions and Clean Fuel Fleet Certification (CCF).

### TRANSFER CASE: MP3015C

Availability Optional — 3.6-liter V-6 engine

Type Single-speed electronically shifted

Operating Mode Full-time Active 4WD

Low Range Ratio None

Torque Split, Front/Rear Variable

### TRANSFER CASE: MP3028C

Availability Optional — 3.6-liter V-6 and 5.7-liter V-8 engines and 2.0L 4xe

Type Two-speed electronically shifted

Operating Modes 4x4 Low (Lock), Neutral; Full-time Active 4x4

### TRANSFER CASE: MP3028C (CONTINUED)

Low Range Ratio 2.72

Torque Split, Front/Rear Variable

### TRANSMISSION: TORQUEFLITE 8HP70 AUTOMATIC, EIGHT-SPEED OVERDRIVE

Availability Standard — 3.6-liter and 5.7-liter models

Description Driver-interactive manual control and electronically modulated torque   
converter clutch

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

### ENGINE: 2.0-LITER TURBO I-4

Availability Standard — Limited 4xe, Trailhawk 4xe, Overland 4xe and Summit 4xe

Displacement 221 cu. in. (1,995 cu. cm)

Bore x Stroke 3.31 x 3.54 (84 x 90)

Valve System Chain-driven DOHC, 16 valves

Fuel Injection Direct Injection

Construction Aluminum block, aluminum alloy heads

Compression Ratio 10.0:1

Power (SAE J2723) 270 hp (200kW) @ 5,250 rpm

Torque (SAE J2723) 295 lb.-ft. (400 N•m) @ 3,000 rpm

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

Fuel Requirement Minimum unleaded regular, 87 octane (R + M)/2; 91 octane or higher recommended for optimum fuel economy and performance

Fuel Tank Capacity (gallons) 19.0

Oil Capacity 5.0 quarts (4.7 liters)

Coolant Capacity 9.9 quarts (9.4 liters)

Emission Controls GPEC5 engine-management system with close-coupled catalyst and wide range O2 sensor

### ENGINE: 2.0-LITER TURBO I-4 (CONTINUED)

Max. Gross Trailer Weight 6,000 lbs.

Assembly Plant Termoli, Italy

### eTORQUE BELT-START GENERATOR/MOTOR

Availability Standard — Limited 4xe, Trailhawk 4xe, Overland 4xe and Summit 4xe

Peak power 44 hp (33 kW)

Starting torque 39 lb.-ft. (53 Nm)

### TRANSMISSION: 8P75PH PHEV AUTOMATIC, EIGHT-SPEED OVERDRIVE

Availability Standard — Limited 4xe, Trailhawk 4xe, Overland 4xe and Summit 4xe

Description Plug-in hybrid automatic transmission with AC traction motor with Motor Interrupting Clutch and Integrated Launch Element; adaptive electronic control and paddle shifter driver-interactive control

Gear Ratios

1st 4.71

2nd 3.14

3rd 2.11

4th 1.67

5th 1.28

6th 1.00

7th 0.84

8th 0.67

Reverse 3.32

### INTEGRATED TRANSMISSION TRACTION MOTOR

Availability Standard — Limited 4xe, Trailhawk 4xe, Overland 4xe and Summit 4xe

Peak torque 181 lb.-ft. (245 Nm)

Peak power 134 hp (100 kW)

### HIGH VOLTAGE BATTERY

Availability Standard — Limited 4xe, Trailhawk 4xe, Overland 4xe and Summit 4xe

Chemistry Lithium Ion Li-NMC

Charging Modes Level 1 — 120V AC, Level 2 — 240V AC

Operating Voltage 260 – 400 VDC

Gross Capacity 17.3 kWh

Maximum Charge Rate 7.2 kW

### TOTAL POWERTRAIN OUTPUT

Availability Standard — Limited 4xe, Trailhawk 4xe, Overland 4xe and Summit 4xe

Peak combined torque 470 lb.-ft. (637 Nm) at 3,000 rpm

Peak combined power 375 hp (280 kW) at 5,250 rpm

### AXLES

Front

Differential type Conventional with Front Axle Disconnect

Availability Standard on 4x4 models

Ring gear diameter 7.7 in. (195mm)

Axle ratios 3.45:1 — 3.6-liter V-6 and 5.7-liter V-8

Rear

Differential type Conventional (optional Electronic Limited Slip on 3.6-liter V-6 and   
5.7-liter V-8, 2.0-liter 4xe)

Availability Standard on all engines

Ring gear diameter 7.7 in. (195mm) — V-6 4x4

9.1 in. (230mm) — V-6 4x2, 5.7-liter V-8, 2.0-liter 4xe with ELSD

Axle ratios 3.45:1 — 3.6-liter V-6 and 5.7-liter V-8

3.70:1 — 2.0-liter 4xe

### ELECTRICAL SYSTEM

Alternator 160-amp; 180-amp; 220-amp or 240-amp depending on model

Battery Maintenance-free

H6 650 CCA + Auxiliary 200 CCA on engine stop-start (ESS) —   
Laredo, Limited

H7 700 CCA + Auxiliary 200 CCA on engine stop-start (ESS) — Trailhawk, Overland, Summit

H7 700 CCA on V-8 (not equipped with ESS)

### SUSPENSION

Front Multi-link independent front suspension, coil springs, gas-charged,   
twin-tube coilover shock absorbers, all aluminum arms and knuckles

Rear Multi-link rear suspension, coil spring, twin tube shocks (including load leveling for towing), all aluminum arms and knuckles (including extruded aluminum spring links)

### STEERING

Type Electric rack-and-pinion steering

Overall Ratio 16.9:1 (V-6 4x2); 15.6:1 (all other vehicles)

Turning Diameter (curb-to-curb) 38 ft. (11.58m)

Steering Turns (lock-to-lock) 2.9 (V-6 4x2), 3.0 (all other vehicles)

### BRAKES

Type Electric boost

Availability Standard

Front

Rotor size and type Inches (mm) 13.94 x 1.10 (354 x 28) vented disc

Caliper size and type Inches (mm) 2.00 (51) two-piston pin-slider caliper

Swept area, (sq. in. / sq. cm) 377 (2,432.25)

Rear

Rotor size and type Inches (mm) 13.78 x 0.87 (350 x 22) vented disc

Caliper size and type Inches (mm) 2.00 (51) single-piston pin-slider EPB caliper

Swept area, (sq. in. / sq. cm) 293.28 (1,892.12)

### DIMENSIONS AND CAPACITIES

Wheelbase 116.7 (2,964)

Track, Front 65.4 (1,660)

Track, Rear 65.4 (1,660)

Overall Length 193.5 (4914)

Overall Width (width at mirrors) 84.6 (2,149)

Overall Width (width with folded mirrors) 77.5 (1,968)

Body Width 77.5 (1,968)

Overall Height 70.8 (1,799) — standard suspension

70.9 (1,801) — air suspension

Load Floor Height 32.4 (823) — standard suspension

30.4 (772) — air suspension (with entry/exit enabled)

Sill Step Height 20.2 (512) — standard suspension

18.4 (467) — air suspension (with entry/exit enabled)

Ground Clearance 8.4 (214) — standard suspension

10.9 (276) — air suspension (Pos#2)

10.9 (278) — air suspension (Trailhawk 4xe Pos #2)

11.3 (287) — air suspension (Trailhwawk 3.6-liter and 5.7-liter Pos#2)

### DIMENSIONS AND CAPACITIES (continued)

Chassis (fuel tank) 10.3 (261) — standard suspension

12.6 (320) — air suspension (Pos#2)

13.2 (335) — air suspension (Trailhwawk Pos#2)

Front Axle 8.4 (214) — standard suspension

10.9 (277) — air suspension (Pos#2)

11.3 (287) — air suspension (Trailhwawk Pos#2)

Rear Axle 9.1 (230) — standard suspension

11.7 (297) — air suspension (Pos#2)

12.5 (317) — air suspension (Trailhwawk Pos#2)

Approach Angle (degrees) 20.5 — standard suspension

30.1 — air suspension (Overland, Pos#2)

28.2 — air suspension (Summit, Pos#2)

35.7 — air suspension (Trailhwawk Pos#2)

Ramp Breakover Angle (degrees) 19.1 — standard suspension (3.6-liter)

16.3 — standard suspension (2.0-liter 4xe)

24 — air suspension (Pos#2 – 3.6-liter and 5.7-liter)

20.9 — air suspension (Pos#2 – 2.0-liter 4xe)

24.4 — air suspension (Trailhwawk Pos#2 – 3.6-liter and 5.7-liter)

22.3 — air suspension (Trailhwawk Pos#2 – 2.0-liter 4xe)

Departure Angle (degrees) 26.6 — standard suspension

30.0 — air suspension (Trailhawk 4xe Pos#2)

30.2 — air suspension (Trailhwawk Pos#2)

Frontal Area sq. ft. 31.7

Drag Coefficient (Cd) 0.357

Aero CdA 11.3 (Cd x frontal area)

Fuel Tank Capacity, (gallons / liter) 23 (87) — 3.6-liter, 5.7-liter

19 (72) — 2.0-liter Turbo I-4

### ACCOMMODATIONS

Seating Capacity (front / rear) 2/3 (second-row bench)

SAE Total Interior Passenger Volume,   
(cu. ft. / cu. m) 144.6 (4.1)

Front Row

Headroom 39.9 (1,013)

Legroom 41.3 (1,050)

Shoulder room 59.2 (1,504)

Hip room 57.4 (1,459)

Seat travel 9.8 (250)

EPA front volume index (cu. ft. / cu. m) 56.5 (1.6)

### ACCOMMODATIONS (CONTINUED)

Second Row

Headroom 39.4 (1,002)

Legroom 38.2 (971)

Knee clearance 4.1 (103)

Shoulder room 58.0 (1,474)

Hip room 56.3 (1,429)

EPA rear seat volume index (cu. ft. / cu. m) 50.5 (1.4)

Cargo volume behind first-row seats (cu. ft. / cu. m) 70.8 (2.0)

Behind second-row seats (cu. ft. / cu. m) 37.7 (1.07)

### WEIGHTS (Estimates)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| WEIGHTS (Estimates) | MODEL | ENGINE | GVWR(a)  lbs. (kg) | CURB WEIGHT(b) lbs. (kg) | PAYLOAD(c)  lbs. (kg) |
| **2WD** | Laredo | 3.6-liter | 6,050 (2,744) | 4,238 (1,922) | 1,280 (582) |
|  | Limited | 3.6-liter | 6,050 (2,744) | 4,266 (1,935) | 1,260 (572) |
|  | Overland | 3.6-liter | 6,050 (2,744) | 4,451 (2,019) | 1,160 (526) |
|  | Summit | 3.6-liter | 6,050 (2,744) | 4,475 (2,030) | 1,190 (540) |
| **4WD** | Laredo | 3.6-liter | 6,050 (2,744) | 4,365 (1,980) | 1,240 (562) |
|  | Limited | 3.6-liter  2.0-liter 4xe | 6,050 (2,744)  6,900 (3,130) | 4,413 (2,002)  5,325 (2,415.6) | 1,260 (572)  1,206 (547) |
|  | Trailhawk | 3.6-liter  5.7-liter  2.0-liter 4xe | 6,050 (2,744)  6,500 (2,948)  6,900 (3,130) | 4,747 (2,153)  5,017 (2,276)  5,524 (2,505.6) | 1,140 (517)  1,140 (517)  1,150 (521) |
|  | Overland | 3.6-liter  5.7-liter  2.0-liter 4xe | 6,050 (2,744)  6,500 (2,948)  6,900 (3,130) | 4,721 (2,141)  4,995 (2,266)  5,492 (2,490.9) | 1,210 (549)  1,220 (553)  1,206 (547) |
|  | Summit | 3.6-liter  5.7-liter  2.0-liter 4xe | 6,050 (2,744)  6,500 (2,948)  6,900 (3,130) | 4,784 (2,170)  5,045 (2,288)  5,558 (2,521.2) | 1,160 (526)  1,140 (517)  1,111 (504) |
| (a) Gross Vehicle Weight Rating  (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). | | | | | |

### WEIGHT DISTRIBUTION, F/R

|  |  |  |  |
| --- | --- | --- | --- |
| WEIGHT DISTRIBUTION, F/R | MODEL | ENGINE | DISTRIBUTION |
| **2WD** | Laredo | 3.6-liter | 53/47 |
|  | Limited | 3.6-liter | 53/47 |
|  | Overland | 3.6-liter | 52/48 |
|  | Summit | 3.6-liter | 52/48 |
| **4WD** | Laredo | 3.6-liter | 54/46 |
|  | Limited | 3.6-liter 2.0-liter 4xe | 54/46 53/47 |
|  | Trailhawk | 3.6-liter 5.7-liter 2.0-liter 4xe | 53/47 55/45 52/48 |
|  | Overland | 3.6-liter 5.7-liter 2.0-liter 4xe | 53/47 55/45 52/48 |
|  | Summit | 3.6-liter 5.7-liter 2.0-liter 4xe | 52/48 54/46 52/48 |

### Wheels

Availability Standard — Laredo

Type and material Painted cast aluminum in Fine Silver

Size (inches) 17 x 8

Availability Standard — Limited

Type and material Painted cast aluminum in Low-Gloss Highlight Silver

Size (inches) 18 x 8

Availability Optional — Limited

Type and material Polished aluminum with High-Gloss Technical Gray pockets

Size (inches) 20 x 8.5

Availability Standard — Limited 4xe

Type and material Polished aluminum with Black Noise pockets

Size (inches) 18 x 8

Availability Standard — Trailhawk ICE

Type and material Machined face with Mid-Gloss Granite Crystal (MA7) with Red Accent

Size (inches) 18 x 8

### Wheels (continued)

Availability Standard — Trailhawk 4xe

Type and material Machined face with Mid-Gloss Granite Crystal (MA7) with Blue Accent

Size (inches) 18 x 8

Availability Standard — Overland

Type and material Machined cast aluminum with Black Noise pockets

Size (inches) 20 x 8.5

Availability Optional — Overland (packaged with Off-road Group)

Type and material Polished aluminum with High-Gloss Black pockets

Size (inches) 18 x 8

Availability Standard — Summit

Type and material Polished cast aluminum Painted Silver Lithos

Size (inches) 20 x 8.5

Availability Standard — Summit Reserve

Type and material Machined cast aluminum with Mid-Gloss Black pockets

Size (inches) 21 x 9

### TIRES

Availability Standard — Laredo

Size and type 245/70R17

Mfr. and model Goodyear Fortera HL All-Season

Revs per kilometer 422

Availability Standard — Limited

Size and type 265/60R18

Mfr. and model Michelin Primacy XC All-Season or Michelin Primacy LTX All-Season

Revs per kilometer 422

Availability Standard — Trailhawk

Size and type 265/60R18

Mfr. and model Goodyear Wrangler Territory AT

Revs per kilometer 425

Availability Optional — Overland (packaged with Off-road Group)

Size and type 265/60R18

Mfr. and model Goodyear Wrangler All-Terrain Adventurer

Revs per kilometer 422

### TIRES (continued)

Availability Standard — Summit

Size and type 265/50R20

Mfr. and model Pirelli Scorpion Verde Black Sidewall All-Season

Revs per kilometer 419

Availability Optional — Summit (included with Summit Reserve Package)

Size and type 275/45R21

Mfr. and model Continental CrossContact

Revs per kilometer 419

Parking Brake Type Drum-in-hat

Four-wheel Antilock Brakes Standard

Electronic Stability Control Standard

All-speed Traction Control Standard

Brake Assist Standard

### TRAILER TOWING

|  |  |  |  |
| --- | --- | --- | --- |
|  | **ENGINE** | **AXLE RATIO** | **MAXIMUM TRAILER  WEIGHT LBS. (KG)** |
| **2WD** | 3.6-liter V-6 | 3.45 | 6,200 (2,818) |
| **4WD** | 3.6-liter V-6 5.7-liter V-8 2.0-liter 4xe | 3.45 3.45 3.70 | 6,200 (2,818) 7,200 (3,300) 6,000 (2,722) |

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