# 2022 Jeep® Grand Cherokee L

## 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 January 2021 as a 2021 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, 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

### ENGINE: 3.6-LITER PENTASTAR V-6 (CONTINUED)

EPA Fuel Economy mpg (city/hwy/combined) 19/26/21 — 2WD

18/25/21 — 4WD

Assembly Plant Saltillo South Engine Plant, Saltillo, Mexico

### ENGINE: 5.7-LITER V-8

Availability Optional — 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

1. 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).

### 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

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

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: MP 3010

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: MP 3022

Availability Optional — 3.6-liter V-6 and 5.7-liter V-8 engines

Type Two-speed electronically shifted

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

Low Range Ratio 2.72

Torque Split, Front/Rear Variable

### 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

### AXLES (CONTINUED)

Rear

Differential type Conventional (optional Electronic Limited Slip on 5.7-liter V-8)

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

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

### 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) — 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) 39.6 ft. (12.1 m)

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)

### BRAKES (CONTINUED)

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 121.7 (3,091)

Track, Front 65.4 (1,660)

Track, Rear 65.4 (1,660)

Overall Length 204.9 (5,204)

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 71.5 (1,815) — standard suspension

71.5 (1,817) — air suspension

Load Floor Height 32.2 (817) — standard suspension

30.2 (767) — air suspension (with entry/exit enabled)

Sill Step Height 20.2 (513) — standard suspension

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

Ground Clearance   
(with P265/50R20 tire and 3.6-liter engine) 8.5 (215) — standard suspension

10.9 (276) — air suspension (Pos#2)

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

12.6 (320) — air suspension (Pos#2)

Front Axle 9.7 (246) — standard suspension

12.0 (305) — air suspension (Pos#2)

Rear Axle 10.8 (275) — standard suspension

14.0 (355) — air suspension (Pos#2)

Approach Angle (degrees) 20.6 — standard suspension

30.1 — air suspension (Overland, Pos#2)

28.2 — air suspension (Summit, Pos#2)

Ramp Breakover Angle (degrees) 18.2 — standard suspension

22.6 — air suspension (Pos#2)

### DIMENSIONS AND CAPACITIES (CONTINUED)

Departure Angle (degrees) 21.5 — standard suspension

23.6 — air suspension (Pos#2)

Frontal Area sq. ft. (sq. m) 31.95

Drag Coefficient (Cd) 0.357

Aero CdA 11.4 (Cd x cross-sectional area)

Fuel Tank Capacity, (gallons / liter) 23 (87)

### ACCOMMODATIONS

Seating Capacity (front / rear) 2/3/2 (second-row bucket seats or optional bench)

SAE Total Interior Passenger Volume,   
(cu. ft. / cu. m) 159.1 (4.5)

Front Row

Headroom 39.8 (1,012)

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)

Second Row

Headroom 39.9 (1,014)

Legroom 39.4 (1,000)

Knee clearance 4.6 (118)

Shoulder room 58.0 (1,474)

Hip room 56.3 (1,429)

Seat travel 7.1 (180)

EPA rear seat volume index   
(cu. ft. / cu. m) 52.8 (1.5)

Third Row

Headroom 37.3 (947)

Legroom 30.3 (770)

Knee clearance 0.6 (15)

Shoulder room 51.9 (1,317)

Hip room 42.9 (1,090)

EPA rear seat volume index   
(cu. ft. / cu. m) 32.6 (0.92)

### ACCOMMODATIONS (CONTINUED)

Cargo volume behind first-row seats  
(cu. ft. / cu. m) 84.6 (2.39)

Behind second-row seats   
(cu. ft. / cu. m) 46.9 (1.33)

Behind third-row seats   
(cu. ft. / cu. m) 17.2 (0.49)

### WEIGHTS (Estimates)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | MODEL | ENGINE | GVWR(a) lbs. (kg) | CURB WEIGHT(b) lbs. (kg) | PAYLOAD(c) lbs. (kg) |
| **2WD** | Laredo | 3.6-liter | 6,500 (2,948) | 4,524 (2,052) | 1,370 (620) |
|  | Limited | 3.6-liter | 6,500 (2,948) | 4,541 (2,060) | 1,400 (635) |
|  | Overland | 3.6-liter | 6,500 (2,948) | 4,707 (2,135) | 1,230 (560) |
|  | Summit | 3.6-liter | 6,500 (2,948) | 4,752 (2,155) | 1,240 (560) |
| **4WD** | Laredo | 3.6-liter | 6,500 (2,948) | 4,658 (2,113) | 1,370 (620) |
|  | Limited | 3.6-liter | 6,500 (2,948) | 4,692 (2,128) | 1,400 (635) |
|  | Overland | 3.6-liter 5.7-liter | 6,700 (3,039) 6,900 (3,130) | 4,997 (2,267) 5,226 (2,370) | 1,270 (575) 1,250 (565) |
|  | Summit | 3.6-liter 5.7-liter | 6,700 (3,039)  6,900 (3,130) | 5,068 (2,299) 5,279 (2,395) | 1,210 (560) 1,190 (540) |

(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

|  |  |  |  |
| --- | --- | --- | --- |
|  | MODEL | ENGINE | DISTRIBUTION |
| **2WD** | Laredo | 3.6-liter | 50/50 |
|  | Limited | 3.6-liter | 50/50 |
|  | Overland | 3.6-liter | 50/50 |
|  | Summit | 3.6-liter | 50/50 |
| **4WD** | Laredo | 3.6-liter | 52/48 |
|  | Limited | 3.6-liter | 51/49 |
|  | Overland | 3.6-liter  5.7-liter | 50/50  52/48 |
|  | Summit | 3.6-liter  5.7-liter | 50/50  52/48 |

### Wheels

Availability Standard — Laredo

Type and material Painted cast aluminum in Fine Silver

Size (inches) 18 x 8

Availability Standard — Limited

Type and material Painted cast aluminum in Fine Silver

Size (inches) 18 x 8

Availability Optional — Limited

Type and material Diamond-cut aluminum with High-Gloss Technical Gray pockets

Size (inches) 20 x 8.5

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 Painted low-gloss Silver Lithos cast aluminum

Size (inches) 20 x 8.5

Availability Standard — Summit Reserve

Type and material Machined cast aluminum with Mid-Gloss Granite Crystal pockets

Size (inches) 21 x 9

### TIRES

Availability Standard — Laredo and 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 — Overland; Optional — Limited

Size and type 265/50R20

Mfr. and model Bridgestone Ecopia H/L 422 Plus Black Sidewall All-Season

Revs per kilometer 425

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

Size and type 265/60R18

Mfr. and model Michelin Primacy XC All-Season

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 | 3.45 | 6,200 (2,818) |
|  | 5.7-liter V-8 | 3.45 | 7,200 (3,300) |

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