



2024 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
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

(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).

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



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. (195 mm)
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 5.7-liter V-8)
Availability	Standard on all engines
Ring gear diameter	7.7 in. (195 mm) — V-6 4x4
	9.1 in. (230 mm) — 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)
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

DIMENSIONS AND CAPACITIES (CONTINUED)

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)
Departure Angle (degrees)	21.5 — standard suspension 23.6 — air suspension (Pos#2)
Frontal Area sq. ft. (sq. m)	31.95 (2.97)
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)

ACCOMMODATIONS (CONTINUED)

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)
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	6,700 (3,039)	4,997 (2,267)	1,270 (575)
		5.7-liter	6,900 (3,130)	5,226 (2,370)	1,250 (565)
	Summit	3.6-liter	6,700 (3,039)	5,068 (2,299)	1,210 (560)
		5.7-liter	6,900 (3,130)	5,279 (2,395)	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. (5 kg).



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	50/50
		5.7-liter	52/48
	Summit	3.6-liter	50/50
		5.7-liter	52/48

WHEELS

Availability	Standard — Laredo
Type and material	Painted cast aluminum in Fine Silver
Size (inches)	18 x 8
Availability	Standard — Altitude
Type and material	Gloss-black painted cast aluminum
Size (inches)	20 x 8.5
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 — Limited, 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

WHEELS (CONTINUED)

Availability	Standard — High Altitude
Type and material	Black-painted cast aluminum
Size (inches)	21 x 9
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
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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