

All-new 2022 Jeep®

Grand Cherokee | Grand Cherokee 4xe

2022 Jeep® Grand Cherokee | Grand Cherokee 4xe 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

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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

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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 — 4xe, Trailhawk 4xe, Overland 4xe and Summit 4xe
Displacement	121 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 O ₂ sensor

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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 — 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 — 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 — 4xe, Trailhawk 4xe, Overland 4xe and Summit 4xe
Peak torque	195 lb.-ft. (265 Nm)
Peak power	134 hp (100 kW)

HIGH VOLTAGE BATTERY

Availability	Standard — 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

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TOTAL POWERTRAIN OUTPUT

Availability	Standard — 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 (Trailhawk 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 (Trailhawk Pos#2)
Front Axle	8.4 (214) — standard suspension
	10.9 (277) — air suspension (Pos#2)
	11.3 (287) — air suspension (Trailhawk Pos#2)
Rear Axle	9.1 (230) — standard suspension
	11.7 (297) — air suspension (Pos#2)
	12.5 (317) — air suspension (Trailhawk 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 (Trailhawk 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 (Trailhawk Pos#2 – 3.6-liter and 5.7-liter)
Departure Angle (degrees)	22.3 — air suspension (Trailhawk Pos#2 – 2.0-liter 4xe)
	26.6 — standard suspension
	30.0 — air suspension (Trailhawk 4xe Pos#2)
Frontal Area sq. ft.	30.2 — air suspension (Trailhawk Pos#2)
	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)

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ACCOMMODATIONS (CONTINUED)

EPA front volume index (cu. ft. / cu. m)	56.5 (1.6)
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	6,050 (2,744)	4,413 (2,002)	1,260 (572)
	4xe	2.0-liter 4xe	6,900 (3,130)	5,325 (2,415.6)	1,206 (547)
	Trailhawk	3.6-liter	6,050 (2,744)	4,747 (2,153)	1,140 (517)
		5.7-liter	6,500 (2,948)	5,017 (2,276)	1,140 (517)
		2.0-liter 4xe	6,900 (3,130)	5,524 (2,505.6)	1,150 (521)
	Overland	3.6-liter	6,050 (2,744)	4,721 (2,141)	1,210 (549)
		5.7-liter	6,500 (2,948)	4,995 (2,266)	1,220 (553)
		2.0-liter 4xe	6,900 (3,130)	5,492 (2,490.9)	1,206 (547)
	Summit	3.6-liter	6,050 (2,744)	4,784 (2,170)	1,160 (526)
		5.7-liter	6,500 (2,948)	5,045 (2,288)	1,140 (517)
		2.0-liter 4xe	6,900 (3,130)	5,558 (2,521.2)	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).

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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	54/46
	4xe	2.0-liter 4xe	53/47
	Trailhawk	3.6-liter	53/47
		5.7-liter	55/45
		2.0-liter 4xe	52/48
	Overland	3.6-liter	53/47
		5.7-liter	55/45
		2.0-liter 4xe	52/48
	Summit	3.6-liter	52/48
		5.7-liter	54/46
		2.0-liter 4xe	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 — 4xe
Type and material	Polished aluminum with Black Noise pockets
Size (inches)	18 x 8

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WHEELS (CONTINUED)

Availability	Standard — Trailhawk ICE
Type and material	Machined face with Mid-Gloss Granite Crystal (MA7) with Red Accent
Size (inches)	18 x 8
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

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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

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)
	2.0-liter 4xe	3.70	6,000 (2,722)

#