

Jeep® Grand Cherokee

TECHNICAL SPECIFICATIONS

All dimensions are in millimeters unless otherwise noted.

Note: Information shown is correct at time of publication and is subject to change without notice. Specifications are valid for models sold in Europe and may vary in other international markets.

GENERAL INFORMATION	
Body Style	Four-door sport-utility vehicle
Assembly Plant	Jefferson North Assembly Plant, Detroit
EPA Vehicle Class	Multi-purpose vehicle
ENGINE: 3.0-LITER TURBO-DIESEL DOHC V-6	
Availability	Laredo, Limited and Overland
Type and Description	60-degree V-type, liquid-cooled
Displacement	2987 cm ³
Bore x Stroke	83.0 x 92.0
Valve System	Chain-driven DOHC, dual overhead-camshaft with four valves per cylinder
Fuel Injection	High pressure direct injection, 1,800-bar common-rail, MultiJet II technology
Construction	Aluminum deep-skirt block, aluminum cylinder heads
Compression Ratio	16.5:1
Power	241 hp (177 kW) @ 4000 rpm Low-output version: 190 hp (140 kW) @ 4000 rpm
Torque	550 N•m @ 1800-2800 rpm Low-output version: 440 N•m @ 1600-2800 rpm
Max. Engine Speed	4600 rpm (electronically limited)
Fuel Requirement	Diesel 10
Oil Capacity	N/A
Coolant Capacity	N/A
Emission Controls	cast-iron exhaust manifolds, close-coupled diesel oxidation catalyst and standard diesel particulate filter
Fuel Consumption Rating	8.3L/100km (combined) and CO ₂ of 218 g/km
Assembly Plant	Cento, Italy
ENGINE: 3.6-LITER DOHC V-6	
Availability	Laredo, Limited and Overland
Type and Description	60-degree V-type, liquid-cooled
Displacement	3604 cm ³
Bore x Stroke	96.0 x 83.0
Valve System	Variable-valve Timing, chain-driven DOHC, 24 valves and hydraulic end-pivot roller rockers
Fuel Injection	Sequential, multi-port, electronic, returnless

Construction	Aluminum deep-skirt block, aluminum alloy heads
Compression Ratio	10.2:1
Power	286 hp (210 kW) @ 6350 rpm
Torque	347 N•m @ 4300 rpm
Max. Engine Speed	6400 rpm (electronically limited)
Fuel Requirement	Unleaded regular, 87 octane (R + M)/2
Oil Capacity	5.7L
Coolant Capacity	9.85L
Emission Controls	Dual closed-coupled three-way catalytic converters, quad heated oxygen sensors and internal engine features
Fuel Consumption Rating	11.4L/100km (combined) and CO ₂ of 265 g/km
Assembly Plant	Trenton South Engine Plant, Trenton, MI

ENGINE: 5.7-LITER MDS V-8

Availability	Overland
Type and Description	90-degree V-type, liquid-cooled
Displacement	5654 cm ³
Bore x Stroke	99.5 x 90.9
Valve System	Variable-valve Timing, 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	352 hp (259 kW) @ 5200 rpm
Torque	520 N•m @ 4200 rpm
Max. Engine Speed	5800 rpm (electronically limited)
Fuel Requirement	Unleaded mid-grade, 89 octane (R+M)/2 – recommended, unleaded regular, 87 octane (R+M)/2 – acceptable
Oil Capacity	6.6L
Coolant Capacity	15.16L
Emission Controls	Dual close-coupled three-way catalytic converters, quad heated oxygen sensors and internal engine features
Fuel Consumption Rating	14.1L/100km (combined) and CO ₂ of 327 g/km
Assembly Plant	Saltillo Engine Plant, Saltillo, Mexico

TRANSMISSION: W5A580 AUTO, FIVE-SPEED OVERDRIVE

Availability	3.0-liter V-6 CRD and 3.6-liter V-6 engine
Description	Adaptive electronic control or Electronic Range Select (ERS) driver-interactive manual control and electronically modulated torque converter clutch
Gear Ratios	
1 st	3.59

2 nd	2.19
3 rd	1.41
4 th	1
5 th	0.83
Reverse	3.16
Final Drive Ratio	3.07:1
Overall Top Gear	2.54
TRANSMISSION: 545RFE AUTOMATIC, MULTI-SPEED	
Availability	5.7-liter MDS V-8 engine
Description	Three planetary gear sets, one overrunning clutch, with Electronic Range Select (ERS) driver interactive control, electronically controlled torque converter clutch
Gear Ratios	
1 st	3
2 nd	1.67 – up-shift; 1.50 – kick-down
3 rd	1
4 th	0.75
5 th	0.67
Reverse	3
Final Drive Ratio	3.47:1
Overall Top Gear	2.32
TRANSFER CASE: QUADRA-TRAC II	
Availability	3.0-liter CRD and 3.6-liter V-6 engine
Type	Two-speed, electronically shifted
Operating Mode	Full-time AWD Low (Lock)
Low Range Ratio	2.72:1
Torque Split, Front/Rear	Variable
TRANSFER CASE: QUADRA-DRIVE II	
Availability	3.0-liter CRD and 5.7-liter engines
Type	Two-speed, electronically shifted
Operating Modes	Full-time active 4x4, AWD Low (Lock) with rear Electronic Limited-Slip Differential (ELSD)
Low Range Ratio	2.72:1
Torque Split, Front/Rear	Variable
FRONT AXLES	
Differential Type	Conventional
Availability	Standard
Ring Gear Diameter	195 mm
REAR AXLES	
Differential Type	Conventional

Availability	Standard with Quadra-Trac II 4x4 system
Ring Gear Diameter	215 mm – 3.6-liter engine
Axle Ratios	3.06:1 – 3.6-liter engine
Differential Type	Electronic Limited-slip Differential (ELSD)
Availability	Standard with Quadra-Drive II 4x4 system
Ring Gear Diameter	230 mm – 5.7-liter and 3.0-liter engines
Axle Ratios	3.45:1 – 5.7-liter and 3.0-liter engines
ELECTRICAL SYSTEM	
Alternator	160 amp; 180 amp or 220 amp depending on option content
Battery	Group 65 maintenance-free 750CCA
DIMENSIONS AND CAPACITIES	
Wheelbase	2915
Track, Front	1628
Track, Rear	1634
Overall Length	4822
Overall Width (with mirrors)	2154
Body Width (without mirrors)	1943
Overall Height (at Antenna Base)	1781– steel suspension; 1764 – air suspension
Sill Step Height	521.1 – steel suspension; 513.5 – air suspension, Park mode
Ground Clearance	218 front / 255 rear– steel suspension; 205 front / 238 rear – air suspension
Chassis (Fuel Tank)	241.7 (9.5) – steel suspension / 317.7 (12.5) – air suspension, Off Road 2 mode
Front Axle	216.7 (8.5) – steel suspension / 292.7 (8.5) – air suspension, Off Road 2 mode
Rear Axle	258.3 (10.2) – steel suspension / 334.3 (13.2) – air suspension, Off Road 2 mode
Approach Angle	26 degrees – steel suspension; 34.3 degrees – air suspension, Off Road 2 mode and front air dam removed
Ramp Breakover Angle	19 degrees – steel suspension; 23.1 degrees – air suspension, Off Road 2 mode and front air dam removed
Departure Angle (with P265/60R18 Tire, to rear recovery tow hook)	24 degrees – steel suspension; 27.3 degrees – air suspension, Off Road 2 mode and front air dam removed
Frontal Area	2.88 m ²
Drag Coefficient	0.373
Aero (CdA)	1.07 m ² (Cd x cross-sectional area)
Fuel Tank Capacity	93.5 L (all engines)
ACCOMMODATIONS	
Seating Capacity, Front/Second	2/3
Front Seat	
Head Room	1013
Legroom	1025
Shoulder Room	1491
Hip Room	1449

Seat Travel	290		
SAE Volume	1.55 m ³		
Rear Seat			
Head Room	995		
Legroom	981		
Shoulder Room	1474		
Hip Room	1428		
Knee Clearance	109.7		
SAE Volume	1.4 m ³		
Cargo Volume			
Behind Rear Seat (to the roof)	782 L		
Behind Front-row Seats with Rear Seats Folded (to the roof)	1554 L		
WEIGHTS (Estimated)			
MODEL	ENGINE	GVWR^(a) kg (lbs.)	CURB WEIGHT^(b) kg (lbs.)
Laredo	3.0-liter	2949	2347/2430
	3.6-liter	2949	2266/2354
Limited	3.0-liter	2949	2347/2430
	3.6-liter	2949	2266/2354
Overland	3.0-liter	2949	2347/2430
	3.6-liter	2949	2266/2354
	5.7-liter	2949	2382/2499
(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 5 kg (10 lbs.).			
WEIGHT DISTRIBUTION, F/R			
MODEL	ENGINE	DISTRIBUTION	
Laredo	3.0-liter	1369/1580	
Limited	3.0-liter	1369/1580	
Overland	3.0-liter	1369/1580	
	3.6-liter	1369/1580	
	5.7-liter	1437/1512	
BODY			
Layout	Longitudinal front engine, transfer case with full-time four-wheel drive		
Construction	Steel uniframe		
SUSPENSION			
Front	Short/long arm independent (SLA), coil or air springs, twin-tube spring-over shock absorbers, front stabilizer bar		

Rear	Multi-link independent rear suspension, coil spring with twin-tube or Nivomat shocks (load leveling for towing) or air spring with twin-tube shocks, aluminum lower control arm, independent upper links (tension/camber/toe), rear stabilizer bar
STEERING	
Type	Power rack and pinion
Steering Ratio	18.69:1 – on center, 15.7:1 – at full lock
Turn Circle	11.6 m
Lock to Lock Steering Wheel Rotations	3.625 ^(a)
BRAKES	
Front	
Size and Type	350 x 32 mm vented disc with 48 mm two-piston floating caliper and ABS
Swept Area	2088 cm ²
Rear	
Size and Type	330 x 22 mm disc with 48 mm single-piston floating caliper and single-channel ABS ^(b)
Swept Area	1523 cm ²
Power Assist	Single-rate, tandem diaphragm vacuum
(a) Turning diameter is measured at the outside of the tires at curb height. Turning diameters and steering wheel turns, lock-to-lock, may differ with optional tires and wheels.	
(b) Four-channel ABS standard on all models.	
TIRES	
Laredo	265/60R18
Limited	265/60R18
Overland	265/50R20
WHEELS	
Laredo	18 x 8
Limited	18 x 8
Overland	20 x 8
TRAILER TOWING^(a)	
Engine	Maximum Trailer Weight^(b) kg (lbs.)
3.0-liter V-6	3500
3.0-liter V-6	3500
3.6-liter V-6	2268
5.7-liter V-8	3500
(a) All models can tow trailers up to 2268 kg (5,000 lbs.) with the addition of a trailer hitch.	
(b) Maximum Trailer Weight = GCWR minus actual weight of vehicle with optional equipment, passengers and cargo. Tongue weight should be 10-15% of loaded trailer weight but may not cause vehicle to exceed GVWR or GAWR. Load equalizing hitch recommended for trailers over 907 kg (2,000 lbs.).	

PERFORMANCE				
Engine	3.0L CRD (LO)	3.0L CRD	3.6L	5.7L
Acceleration 0-100 km/h	10.2 sec	8.2 sec	9.1 sec	8.7 sec
Top Speed (km/h)	191	202	206	225 (20" wheels) 210 (18" wheels)

Fuel Consumption (L/100 km, EU standard)				
Engine	3.0L CRD (LO)	3.0L CRD	3.6L	5.7L
Urban Cycle	10.3	10.3	16.0	21.1
Extra-urban Cycle	7.2	7.2	8.8	10.0
Combined Cycle	8.3	8.3	11.4	14.1
Combined CO ₂ (g/ km)	218	218	265	327
Environmental classification	Euro 5	Euro 5	Euro 5	Euro 5