

Jeep® Grand Cherokee

TECHNICAL SPECIFICATIONS

All dimensions are expressed in millimetres unless otherwise indicated. The information is based on data available on the date of publication. The technical specifications are valid for Australia and may vary in other international markets.

GENERAL INFORMATION

Vehicle type	4-door Sport-Utility Vehicle
Assembly plant	Jefferson North Assembly Plant (JNAP), Detroit, USA

3.6-litre V6 DOHC ENGINE with VVT

Availability	Laredo, Limited, Overland
Type and description	60-degree, V-type, liquid cooled
Displacement	3,604 cm ³
Bore and stroke	96.0 × 83.0
Valve System	Chain-driven DOHC, 24 valves and hydraulic end-pivot roller rockers
Injection	Sequential, multi-port, electronic
Engine	Aluminium deep-skirt bloc, aluminium cylinder heads
Compression ratio	10.2:1
Power	210 kW @ 6,350 rpm
Torque	347 Nm @ 4,300 rpm
Maximum speed	6,350 rpm (electronically limited)
Fuel requirement	Unleaded, 91 octane
Emission controls	Dual three-way catalytic converters with heated oxygen sensors and internal engine features
Fuel consumption (L/100km)	4x2: 14.0 (urban), 7.9 (extra-urban), 10.1 (combined) 4x4: 14.3 (urban), 8.2 (extra-urban), 10.4 (combined)
CO ₂ emissions (g/km)	4x2: 237 4x4: 244
Emissions class	Euro 6
Assembly plant	Trenton South Engine Plant, Trenton, MI, USA

3.0-litre V6 DOHC TURBO DIESEL ENGINE

Availability	Laredo, Limited, Overland
Type and description	60-degree, 6 cylinders, V-type, liquid cooled
Displacement	2,987 cm ³
Bore and stroke	83.0 × 92.0
Valve system	Chain-driven DOHC, four valves per cylinder
Injection	Electronic direct injection, 1,800-bar common-rail, MultiJet II technology
Engine	Cast-iron block, aluminium cylinder heads
Compression ratio	15.5:1
Power	184 kW @ 4,000 rpm
Torque	570 Nm @ 2,000 rpm
Maximum speed	4,800 rpm (electronically limited)
Fuel requirement	Diesel
Emission controls	Cast-iron exhaust manifolds, diesel oxidation catalyst and diesel particulate filter
Fuel consumption (L/100km)	9.3 (urban), 6.5 (extra-urban), 7.5 (combined)
CO ₂ emissions (g/km)	198
Emissions class	Euro 5+
Assembly plant	VM Motori, Cento, Italy

5.7-litre V8 ENGINE with MDS	
Availability	Limited and Overland
Type and description	90-degree, V-type, liquid cooled
Displacement	5,654 cm ³
Bore and stroke	99.5 × 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
Injection	Sequential, multi-port, electronic
Engine	Deep-skirt cast-iron block with cross-bolted main bearing caps, aluminium alloy heads with hemispherical combustion chambers
Compression ratio	10.5:1
Power	259 kW @ 5,200 rpm
Torque	520 Nm @ 4,200 rpm
Maximum speed	5,800 rpm (electronically limited)
Fuel requirement	Premium unleaded, 95 octane
Emission controls	Dual close-coupled three-way catalytic converters, quad heated oxygen sensors and internal engine features
Fuel consumption (L/100km)	19.6 (urban), 9.2 (extra-urban), 13.0 (combined)
CO ₂ emissions (g/km)	304
Emissions class	Euro 6
Assembly plant	Trenton South Engine Plant, Trenton, MI, USA

6.4-litre HEMI V8 ENGINE with FUEL SAVER TECHNOLOGY

Availability	SRT
Type and description	90-degree V-type, liquid-cooled
Displacement	6,417 cm ³
Bore and stroke	103.9 x 94.5
Valve System	Pushrod-operated overhead valves, 16 valves with sodium-filled exhaust valves and hollow stem intake valves, 16 conventional hydraulic lifters, all with roller tips
Injection	Sequential, multi-port, electronic, returnless; automatic features Fuel Saver mode
Engine	Deep-skirt cast-iron block with cross-bolted main bearing caps, aluminium alloy heads with hemispherical combustion chambers
Compression ratio	10.9:1
Power	344 kW @ 6,250 rpm
Torque	624 Nm @ 4,100 rpm
Maximum speed	6,800 rpm (electronically limited))
Fuel requirement	Premium unleaded, 98 octane
Emission controls	Dual close-coupled three-way catalytic converters, quad-heated oxygen sensors and internal engine features
Fuel consumption (L/100km)	20.7 (urban), 10.1 (extra-urban), 14.0 (combined)
CO ₂ emissions (g/km)	327
Emissions class	Euro 6
Assembly plant	Saltillo Engine Plant, Saltillo, Mexico

TRANSMISSION – ZF AUTOMATIC, 8-SPEED WITH OVERDRIVE

Availability	All engine options
Description	Automatic 8-speed with driver-interactive manual control via steering wheel paddle shifters and electronically-modulated torque converter clutch

Transmission ratios

1st	4.71
2nd	3.14
3rd	2.10
4th	1.66
5th	1.28
6th	1.00
7th	0.83
8th	0.66
Reverse	3.29

FRONT AXLE

Differential type	Conventional
Availability	Standard
Diameter	195 mm

REAR AXLE

Differential type	Conventional
Availability	Standard with Quadra-Trac II
Axle ratios	3.45:1 (3.6-litre engine); 3.45:1 (3.0-litre diesel engine)

Differential type	Electronic Limited Slip Differential (ELSD)
Availability	Standard with Quadra-Drive II
Axle ratios	3.45:1 (3.0-litre diesel engine); 3.09:1 (5.7-litre V8 engine); 3.70:1 (6.4-litre V8 engine)

QUADRA-TRAC II TRANSFER CASE

Availability	Standard on Laredo 4x4 and Limited
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Type	Two-speed, electronically shifted
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Operating mode	Full-time AWD Low (Lock)
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Low Range Ratio	2.72:1
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Torque Split, Front/Rear	Variable
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QUADRA-DRIVE II TRANSFER CASE

Availability	Standard on Overland models, optional on Laredo 4x4 and Limited models (not available with the 3.6-litre V6 engine)
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Type	Two-speed, electronically shifted
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Operating mode	Full-time active 4x4, AWD Low (Lock) with rear Electronic Limited Slip Differential (ELSD)
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Low Range Ratio	2.72:1
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Torque Split, Front/Rear	Variable
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QUADRA-TRAC TRANSFER CASE

Availability	Standard on SRT model only (6.4-litre Hemi V8 engine)
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Type	Single-speed, on-demand, electronic proportioning
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Operating Mode	Full-time 4WD
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Torque Split, Front/Rear	Variable – 40/60 Auto, 50/50 Snow and Tow, 35/65 Sport and 30/70 Track
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DIMENSIONS AND CAPACITIES

Overall length	4,828 (4,846 SRT)
Body width (without mirrors)	1,943 (1,954 SRT)
Overall height (to top of antenna)	1,802 (mechanical suspension); 1,792 (air suspension); 1,749 (SRT)
Wheelbase	2,915 (2,914 SRT)
Front track	1,628 (1,669 SRT)
Rear track	1,634 (1,661 SRT)
Approach angle	26 degrees (mechanical suspension); 25 degrees (air suspension); 35.8 degrees (with Quadra-Lift in Off-Road 2 and front air dam removed)
Ramp breakover angle	19 degrees (mechanical suspension); 18 degrees (air suspension); 23.5 degrees (with Quadra-Lift in Off-Road 2 and front air dam removed)
Departure angle	24 degrees (mechanical suspension); 23 degrees (air suspension); 29.6 degrees (with Quadra-Lift in Off-Road 2 and front air dam removed)
Water fording depth	508
Frontal area	2.88 m ² (2.93 m ² SRT)
Drag coefficient (C_d)	0.371 (0.39 SRT)
Fuel Tank Capacity	93.5 litres

ACCOMMODATIONS

Seats, front/rear	2/3
<u>Front seats</u>	
Headroom	960 – 1,013
Legroom	1,025
Shoulder room	1,491
Hip room	1,449
Seat travel	280
<u>Rear seats</u>	
Headroom	961 – 995
Legroom	981
Shoulder room	1,474
Hip room	1,428
Knee clearance	110
<u>Cargo volume</u>	
Behind Rear Seat with Rear Seats Up (to the roof)	782 litres
Behind Front-row Seats with Rear Seats Folded (to the roof)	1,554 litres

BODY/CHASSIS	
Layout	Longitudinal front engine, 4-wheel drive
Chassis	Uniframe construction
SUSPENSIONS	
Front	Short- and long-arm independent (SLA), coil or air springs, gas-charged twin-tube shock absorbers, upper and lower control arms ('A' arms) and stabiliser bar
Rear	Multi-link independent rear suspension, coil springs or air springs, twin-tube shock absorbers (including load-levelling for towing), aluminium lower control arm, independent upper links (tension and camber) plus a separate toe link and a rear stabiliser bar
SRT SUSPENSIONS	
Front	Short- and long-arm independent (SLA), coil springs, Bilstein Adaptive Damping Suspension (ADS), upper and lower control arms ('A' arms) and stabiliser bar
Rear	Multi-link rear suspension, coil spring, Bilstein Adaptive Damping Suspension (ADS), aluminium lower control arm, independent upper links (tension and camber) plus a separate toe link, stabiliser bar
STEERING	
Type	Power rack-and-pinion (V8) Electro-hydraulic power steering (V6 & Diesel)
Overall steering ratio	18.7:1 (non SRT); 17.5:1 (SRT)
Steering turns (lock-to-lock)	3.63 (non SRT); 3.4 (SRT)
Turning diameter (m) kerb-to-kerb	11.6
BRAKE SYSTEM	
Type	Power, single-rate, tandem diaphragm vacuum, ABS
Front (mm)	328 x 30 vented disc (non SRT); 350 x 32 with six-piston Brembo calipers (SRT)
Rear (mm)	320 x 14 disc (non SRT); 330 x 22 with four-piston Brembo calipers (SRT)
Electronic Stability Control (ESC)	Four-channel, four-wheel anti-lock with active wheel-speed, vehicle-speed, steering wheel-angle, yaw-rate and lateral acceleration sensors, vehicle stability management with two-stage activation switch, All-Speed Traction Control (ASTC), Brake-Assist, Electronic Roll Mitigation (ERM) and Electronic Brakeforce Distribution (EBD)
WHEELS AND TYRES	
Laredo	18x8.0 polished aluminium wheels (P265/60 R18 Michelin all-season)
Limited	20x8.0 polished wheels with Mineral Grey pockets (P265/50 R20 Kuhmo all-season)
Overland	20x8.0 polished wheels with Mineral Grey pockets (P265/50 R20 Kuhmo all-season)
SRT	20x10.0 full polished wheels Satin clear coat (P295/45 ZR20 Pirelli all-season run-flat)

WEIGHTS (tare mass – in kg)

Laredo	1,998 (4x2 V6 petrol); 2,084 (4x4 V6 petrol); 2,267 (4x4 V6 diesel)
Limited	2,169 (V6 petrol); 2,281 (V6 diesel); 2,302 (V8 petrol)
Overland	2,169 (V6 petrol); 2,327 (V6 diesel); 2,329 (V8 petrol)
SRT	2,289
Gross Vehicle Mass (GVM)	2,949

TRAILER TOWING [maximum trailer weight tow rating (when properly equipped) in kg]

3.6-litre V6 (4x2)	1,600
3.6-litre V6 (4x4)	2,812
3.0-litre CRD	up to 3,500*
5.7-litre V8	up to 3,500*
6.4-litre V8	2,949

* For specific details, discuss your towing requirements with your Jeep dealer, who will help you select the right equipment to meet your specifications

PERFORMANCE

	3.6-litre V6	3.0-litre diesel	5.7-litre V8	6.4-litre Hemi V8
Acc. 0–100 km/h	8.3 sec	8.2 sec	7.3 sec	5.0 sec
Top speed (km/h)	206	202	225	257
