

*Note: Information shown is based on data available at time of publication (September 1, 2009). Specifications are valid for Europe and may vary in other international markets. Vehicle model availability may change per individual markets.*

## Jeep® Grand Cherokee

### SPECIFICATIONS

All dimensions are in millimeters (inches) unless otherwise noted.

#### GENERAL INFORMATION

Body Style	Four-door sport-utility vehicle
Construction	Steel unibody
Assembly Plant	Jefferson Avenue North, Detroit; Magna Steyr, Graz, Austria
Vehicle Segment	Multi-purpose vehicle

#### ENGINE: 3.7-LITER SOHC V-6

Availability	Standard 4x2 and 4x4 Laredo models, Standard 4x2 Limited
Type and Description	90-degree V-type, liquid-cooled
Displacement	3701 cu. cm (226 cu. in.)
Bore x Stroke	93.0 x 90.8 (3.66 x 3.57)
Valve System	Chain-driven SOHC, 12 valves and hydraulic end-pivot roller rockers
Fuel Injection	Sequential, multi-port, electronic, returnless
Construction	Cast-iron block and bedplate, aluminum alloy heads
Compression Ratio	9.6:1
Power	148 kW (201 hp DIN) @ 5100 rpm
Torque	315 N•m (232 lb.-ft.) @ 3900 rpm
Max. Engine Speed	6300 rpm (electronically limited)
Fuel Requirement	Unleaded regular, 87 octane
Oil Capacity	4.7 L (5.0 qt.)
Coolant Capacity	13.25 L (14.0 qt.)
Emission Controls	Dual three-way catalytic converters, heated oxygen sensors and internal engine features <sup>(a)</sup>

#### Fuel Consumption

Urban Cycle	17.0 L/100 km
Ex-urban Cycle	10.2 L/100 km
Combined Cycle	12.7 L/100 km
Assembly Plant	Mack Avenue Engine Complex, Detroit

#### ENGINE: 5.7-LITER HEMI® V-8

Availability	Optional on 4x2 and 4x4 Laredo and Limited
Type and Description	90-degree V-type, liquid-cooled
Displacement	5654 cu. cm (345 cu. in.)
Bore x Stroke	99.5 x 90.9 (3.92 x 3.58)

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 (est.)	259 kW (347 hp DIN) @ 5400 rpm
Torque (est.)	520 N•m (384 lb.-ft.) @ 4200 rpm
Max. Engine Speed	5800 rpm (electronically limited)
Fuel Requirement	Unleaded 89 octane, unleaded regular, 87 octane acceptable
Oil Capacity	6.6 L (7.0 qt.)
Coolant Capacity	13.72 L (14.5 qt.)
Emission Controls	Dual close-coupled three-way catalytic converters, quad-heated oxygen sensors and internal engine features <sup>(a)</sup>
<b>Fuel Consumption</b>	
Urban Cycle	20.9 L/100 km
Ex-urban Cycle	11.5 L/100 km
Combined Cycle	14.9 L/100 km
Assembly Plant	Saltillo Engine Plant, Saltillo, Mexico

**ENGINE: 3.0-LITER TURBO DIESEL**

Availability	Optional for all models
Type and Description	60-degree V-type, liquid-cooled
Displacement	3.0 L
Bore x Stroke	83.0 x 92.0 mm
Valve System	DOHC, 24 valves, 2 intake and 2 exhaust per cylinder with end-pivot roller rockers and hydraulic lash adjustment
Fuel Injection	Direct injection, sequential with pilot injection, high pressure common rail with return
Construction	Aluminum alloy block and heads
Compression Ratio	18.0:1
Power	160 kW (218 hp DIN) @ 4000 rpm
Torque	510 N•m (376 lb.-ft.) @ 1600-2400 rpm
Max. Engine Speed	4200 rpm (electronically limited)
Fuel Requirement	Diesel 15 ppm max sulfur
Oil Capacity	9.5 L with filter (10.0 qt.)
Coolant Capacity	13.25 L (14.0 qt.)
Emission Controls	Two diesel oxidation catalysts at the close-coupled and toeboard positions
<b>Fuel Consumption</b>	
Urban Cycle	13.2 w/DPF / 13.1 w/o DPF
Ex-urban Cycle	8.7 w/DPF / 8.6 w/o DPF
Combined Cycle	10.3 w/DPF / 10.2 w/o DPF
Assembly Plant	Berlin Engine, Germany

**TRANSMISSION: W5A580 FIVE-SPEED AUTOMATIC**

Availability	Standard with 3.7 L engine
Description	Five speed automatic with overdrive, Adaptive Electronic Control, Performance Tuned Autostick driver-interactive manual control and electronically modulated torque converter clutch
<b>Gear Ratios</b>	
1 <sup>st</sup>	3.59
2 <sup>nd</sup>	2.19
3 <sup>rd</sup>	1.41
4 <sup>th</sup>	1.00
5 <sup>th</sup>	0.83
Reverse	3.14
Final-drive Ratio	3.73
Overall Top-gear	3.10

**TRANSMISSION: 545RFE AUTOMATIC, MULTI-SPEED**

Availability	Standard with 5.7 L engine
Description	Five speed automatic with overdrive
<b>Gear Ratios</b>	
1 <sup>st</sup>	3.00
2 <sup>nd</sup>	1.67
3 <sup>rd</sup>	1.00
4 <sup>th</sup>	0.75
5 <sup>th</sup>	0.67
Reverse	3.00
Final-drive Ratio	3.73
Overall Top-gear	2.50 with 3.73 axle

**TRANSMISSION: W5J400 FIVE-SPEED AUTOMATIC**

Availability	Standard with 3.0 L diesel engine
Description	Five speed automatic with overdrive
<b>Gear Ratios</b>	
1 <sup>st</sup>	3.59
2 <sup>nd</sup>	2.19
3 <sup>rd</sup>	1.41
4 <sup>th</sup>	1.00
5 <sup>th</sup>	0.83
Reverse	3.16
Final-drive Ratio	3.55
Overall Top-gear	2.95

**TRANSFER CASE: NV140**

Availability	Included with 3.7 L engine
Type	Single-speed
Operating Mode	Full-time AWD
Low-range Ratio	None
Center Differential Type	Open
Torque Split, Front/Rear	48/52

**TRANSFER CASE: NV245**

Availability	Included with 5.7 L engine
Type	Two-speed, electronically shifted
Operating Modes	4x4 Low (Lock), Neutral; full-time active 4x4
Low-range Ratio	2.72
Center Differential Type	Open with Electronic Limited-Slip Differential
Torque Split, Front/Rear	48/52

**FRONT AXLES**

Differential Type	Conventional
Availability	Standard on 4x4 models with 3.7 L, 5.7 L engine
Ring Gear Diameter	200 mm (7.9 in.)
Axle Ratios	3.07:1—2WD w/ 3.7 L, 3.55:1—4WD w/3.7 L, 3.73:1—2WD/4WD w/5.7 L
Differential Type	Electronic Limited-slip Differential
Availability	Optional on 4x4 models with NV245 transfer case
Ring Gear Diameter	Same as standard
Axle Ratios	3.73:1—5.7-liter engine

**REAR AXLES**

Differential Type	Conventional
Availability	Standard on all engines
Ring Gear Diameter	213 mm (8.3 in.)
Axle Ratios	3.07:1 and 3:55—3.7-liter engine; 3.73:1—5.7-liter engine
Differential Type	Electronic Limited-Slip Differential
Availability	Optional on 4x4 models with NV245 transfer case
Ring Gear Diameter	Same as conventional
Axle Ratios	3.73:1—5.7-liter engine

**ELECTRICAL SYSTEM**

Alternator	160-amp (all engines except diesel)
Battery	Group 65 maintenance-free 750CCA

**DIMENSIONS AND CAPACITIES**

Wheelbase	2780 (109.5)
Track, Front	1575 (62.0)
Track, Rear	1575 (62.0)
Overall Length	4750 (187.0)
Body Width	1870 (73.6)
Overall Height (with Roof Rack)	1740 (68.5)
Load-floor Height	849.8 (33.4)
Sill-step Height	502.7 (19.8) 4x2, 512.5 (20.2) 4x4
Ground Clearance (minimum)	180 mm
Approach Angle (minimum)	23.3 degrees
Ramp Breakover Angle (minimum)	20.0 degrees
Departure Angle (minimum)	20.0 degrees
Frontal Area	1.95 sq. m (21.0 sq. ft.)
Aero	12.1 (cd x cross-sectional area)
Fuel-tank Capacity	79.9 L (21.1 gal.)

**ACCOMMODATIONS**

Seating Capacity, Front/Second	2/3
<b>Front Seat</b>	
Head Room	1008 (39.7)
Leg Room	1058 (41.7)
Shoulder Room	1502 (59.1)
Hip Room (at H-point)	1451(57.6)
Seat Travel	270 (10.6)
SAE Volume	1.6 cu. m (58.02 cu. ft.)
<b>Rear Seat</b>	
Head Room	999 (39.3)
Leg Room	901 (35.5)
Shoulder Room	1584 (58.5)
Hip Room (at H-point)	1539 (60.6)
Knee Clearance	36.6 (1.44)
Couple	838.2 (33.0)
SAE Volume	1.4 cu. m (50.84 cu. ft.)
<b>Cargo Volume</b>	
Behind Rear Seat	1.14 cu. m (34.53 cu. ft.)
Behind Front-row Seats with Rear Seats Folded	2.00 cu. m (67.4 cu. ft.)

**BODY**
**4x2**

Layout	Longitudinal front engine, rear drive
Construction	Steel Unibody

**4x4**

Layout	Longitudinal front engine, transfer case with full-time four-wheel drive
Construction	Steel Unibody

**SUSPENSION**

Front	Short- and long-arm independent (SLA), coil springs, gas-charged, twin-tube coil-over shock absorbers, upper- and lower-control arms ("A" arms), stabilizer bar
Rear	Live axle, link coil with track bar, gas-charged twin-tube shock absorbers, stabilizer bar