Jeep® Grand Cherokee
SPECIFICATIONS

All dimensions are in millimeters (inches) unless otherwise noted. All dimensions are measured at curb weight with standard tires and wheels.

Note: Information shown is correct at time of publication (June 23, 2010) and is subject to change without notice. Information and specifications included in this document are valid for petrol models sold outside of North America.

GENERAL INFORMATION	
Body Style	Four-door sport-utility vehicle
Assembly Plant	Jefferson North Assembly Plant, Detroit
EPA Vehicle Class	Multi-purpose vehicle
ENGINE: 3.6-LITER DOHC V-6	
Availability	Standard on all models
Type and Description	60-degree V-type, liquid-cooled
Displacement	3604 cm^3 (220 in^3)
Bore x Stroke	96.0 x 83.0 (3.78 x 3.27)
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 DIN (210 kW) @ 6350 rpm
Torque	347 N•m (256 lb.-ft.) @ 4300 rpm
Max. Engine Speed	6400 rpm (electronically limited)
Fuel Requirement	Unleaded regular, 87 octane (R + M)/2
Oil Capacity	5.7L (6.0 qt.)
Coolant Capacity	9.85L (10.4 qt.)
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	Optional – Laredo, Limited & Overland
Type and Description	90-degree V-type, liquid-cooled
Displacement	5654 cm^3 (345 in^3)
Bore x Stroke	99.5 x 90.9 (3.92 x 3.58)
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 DIN (259 kW) @ 5200 rpm
Torque	520 N•m (384 lb.-ft.) @ 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 (7 qt.)
Coolant Capacity	15.16L (16 qt.)
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	Standard with 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	
1st	3.59
2nd	2.19
3rd	1.41
4th	1
5th	0.83
Reverse	3.16
Final Drive Ratio	3.07:1
Overall Top Gear	2.54

TRANSMISSION: 545RFE AUTOMATIC, MULTI-SPEED

Availability	Included with 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	
1st	3
2nd	1.67 – up-shift; 1.50 – kick-down
3rd	1
4th	0.75

5th	0.67
Reverse	3
Final Drive Ratio	3.47:1
Overall Top Gear	2.32
TRANSFER CASE: MP 3010	
Availability	Optional with 3.6-liter V-6 engine
Type	Single-speed
Operating Mode	Full-time AWD
Low Range Ratio	None
Torque Split, Front/Rear	50/50
TRANSFER CASE: MP 3022	
Availability	Optional with 3.6-liter and 5.7-liter engines
Type	Two-speed, electronically shifted
Operating Modes	4x4 Low (Lock), Neutral; full-time active 4x4
Low Range Ratio	2.72:1
Torque Split, Front/Rear	Variable
FRONT AXLES	
Differential Type	Conventional
Availability	Standard on all models with 3.6-liter and 5.7-liter engines
Ring Gear Diameter	195 (7.7)
REAR AXLES	
Differential Type	Conventional
Availability	Standard on all models
Ring Gear Diameter	215 (8.4) – 3.6-liter engine; 225 (8.9) – 5.7-liter engine
Axle Ratios	3.06:1 – 3.6-liter engine; 3.47:1 – 5.7-liter engine
Differential Type	Electronic Limited-slip Differential (late availability)
Availability	Optional on models with 5.7-liter engine and MP 3022 transfer case
Ring Gear Diameter	Same as conventional
Axle Ratios	3.45:1 – 5.7-liter engine
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 (114.8)
Track, Front	1628 (64.1)

Track, Rear	1634 (64.3)
Overall Length	4822 (189.8)
Overall Width (with mirrors)	2154 (84.8)
Body Width (without mirrors)	1943 (76.5)
Overall Height (at Antenna Base)	1781 (70.1) – steel suspension; 1764 (69.4) – air suspension
Load Floor Height	821.9 (32.4) – steel suspension; 810.5 (31.9) – air suspension, Park mode
Sill Step Height	521.1 (20.5) – steel suspension; 513.5 (20.2) – air suspension, Park mode
Ground Clearance (with P265/60R18 Tire and 5.7-liter Engine)	218 front (8.6) / 255 rear (10.0) – steel suspension; 205 front (8.1) / 238 rear (9.4) – air suspension, NRH mode
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 (with P265/60R18 Tire)	30.7 degrees – steel suspension; 34.3 degrees – air suspension, Off Road 2 mode
Ramp Breakover Angle (with P265/60R18 Tire)	18.9 degrees – steel suspension; 23.1 degrees – air suspension, Off Road 2 mode
Departure Angle (with P265/60R18 Tire, to rear recovery tow hook)	26.0 degrees – steel suspension; 27.3 degrees – air suspension, Off Road 2 mode
Frontal Area	2.88 m^2 (31.0 ft^2)
Drag Coefficient	0.373 – 3.6-liter and 5.7-liter engines
Aero (CdA)	1.07 m^2 (11.6 ft^2) (Cd x cross-sectional area)
Fuel Tank Capacity	93.5 L (all petrol engines)
ACCOMMODATIONS	
Seating Capacity, Front/Second	2/3
Front Seat	
Head Room	1012.8 (39.9)
Legroom	1024.5 (40.3)
Shoulder Room	1491.4 (58.7)
Hip Room	1448.6 (57.0)
Seat Travel	290 (11.4)
SAE Volume	1.55 m^3 (54.7 ft^3)
Rear Seat	
Head Room	995.4 (39.2)
Legroom	981.1 (38.6)
Shoulder Room	1474.1 (58.0)
Hip Room	1428.4 (56.2)

Knee Clearance	109.7 (4.3)
Couple	880 (34.6)
SAE Volume	1.4 m^3 (50.9 ft^3)
Cargo Volume	
Behind Rear Seat	782 L (27.6 ft^3)
Behind Front-row Seats with Rear Seats Folded	1554 L (54.9 ft^3)

WEIGHTS (Estimated)

	MODEL	ENGINE	GVWR[(a)] kg (lbs.)	CURB WEIGHT[(b)] kg (lbs.)	PAYLOAD[(c)] kg (lbs.)
4WD	Laredo	3.6-liter	2949 (6501)	2191 (4830)	758 (1671)
		5.7-liter	2949 (6501)	2307 (5086)	642 (1415)
	Limited	3.6-liter	2949 (6501)	2191 (4830)	758 (1671)
		5.7-liter	2949 (6501)	2307 (5086)	642 (1415)
	Overland	5.7-liter	2949 (6501)	2307 (5086)	642 (1415)

(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
4WD	Laredo	3.6-liter	1369/1580
		5.7-liter	1437/1512
	Limited	3.6-liter	1369/1580
		5.7-liter	1437/1512
	Overland	5.7-liter	1437/1512

BODY

4x4	
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 (38.06 ft.)[(a)]
Lock to Lock Steering Wheel Rotations	3.625[(a)]

BRAKES

Front	
Size and Type	350 x 32 (13.8 x 1.3) vented disc with 48 (1.89) two-piston floating caliper and ABS
Swept Area	2088 cm^2 (324 in^2)
Rear	
Size and Type	330 x 22 (12.99 x 0.87) disc with 48 (1.89) single-piston floating caliper and single-channel ABS[(b)]
Swept Area	1523 cm^2 (236 in^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 Kumho Solus KL21 Black Side-Wall
Limited	Standard: 265/60R18 Kumho Solus KL21 Black Side-Wall Optional: 265/50R20 Kumho Solus KL21 Black Side-Wall Optional: 265/50R20 Continental Cross Contact 3-Season BSW
Overland	Standard: 265/50R20 Kumho Solus KL21 Black Side-Wall Optional: 265/50R20 Continental Cross Contact 3-Season BSW

WHEELS

WKJH74 (Laredo LHD)	18 x 8
WKJP74 (Limited LHD)	18 x 8 – standard; 20 x 8 – optional
WKJS74 (Overland LHD)	20 x 8

TRAILER TOWING[(a)]

	ENGINE	AXLE RATIO	MAXIMUM TRAILER WEIGHT[(b)] kg (lbs.)
4WD	3.6-liter V-6	3.06:1	2268 (5000)
	5.7-liter V-8	3.47:1	3500 (7716)

(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.).