

2012 Jeep® Grand Cherokee SRT8®

SPECIFICATIONS

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

Note: Information shown is correct at time of publication, and is subject to change without notice.

GENERAL INFORMATION

Body Style	Four-door sport-utility vehicle
Construction	Steel uniframe
Assembly Plant	Jefferson Avenue North Assembly Plant, Detroit, Mich.
EPA Vehicle Class	Multi-purpose vehicle
Introduction	Summer 2011 as a 2012 model

ENGINE: 6.4-LITER HEMI® V-8 WITH FUEL SAVER TECHNOLOGY

Availability	Standard
Type and Description	90-degree V-type, liquid-cooled
Displacement, cu. in. (cu. cm.)	392 (6,424)
Bore x Stroke	4.09 x 3.72 (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
Fuel Injection	Sequential, multi-port, electronic, returnless; automatic features Fuel Saver mode
Construction	Deep-skirt cast-iron block with cross-bolted main bearing caps, aluminum alloy heads with hemispherical combustion chambers
Compression Ratio	10.9:1
Power (SAE J2723)	470 hp (351 kW) at 6,000 rpm
Torque (SAE J2723)	465 lb.-ft. (630 N•m) at 4,300 rpm
Max. Engine Speed	6,400 rpm (electronically limited)
Fuel Requirement	Premium 91 octane (R+M)/2 — recommended
Oil Capacity, qt. (L)	7 (6.6)
Coolant Capacity, qt. (L)	14 (13.25)
Factory Oil Fill	5W-40 Synthetic
Emission Controls	Dual close-coupled three-way catalytic converters, quad-heated oxygen sensors and internal engine features(a)
EPA Fuel Economy mpg (City/Hwy)	12/18
Assembly Plant	Saltillo Engine Plant, Saltillo, Mexico

(a) Meets Federal Tier 2, Bin 5 emissions requirements; marketed in California as an LEV II (Low Emission Vehicle) under cleanest vehicle rules.

TRANSMISSION: W5A580 FIVE-SPEED AUTOMATIC

Availability	Standard with 6.4-liter HEMI engine
Description	AutoStick 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	1.00
5 th	0.83
Reverse	3.16
Final Drive Ratio	3.70:1 – ZF Electronic Limited Slip Differential
Overall Top Gear	3.07

TRANSFER CASE: MP 3010

Availability	Standard with 6.4-liter HEMI engine
Type	Single-speed, electronic proportioning
Operating Modes	Full-time 4WD
Torque Split, Front/Rear	Variable - 50/50 Snow and 35/65 Sport and Track

FRONT AXLES

Differential Type	Conventional
Availability	Standard with 6.4-liter HEMI engine
Ring Gear Diameter	7.7 (195)
Axle Ratio	3.70:1

REAR AXLES

Differential Type	Electronic Limited Slip Differential (ELSD)
Availability	Standard with 6.4-liter HEMI engine
Ring Gear Diameter	9 (230)
Axle Ratio	3.70:1

ELECTRICAL SYSTEM

Alternator	Standard 220-amp
Battery	Group 65 maintenance-free 750CCA

DIMENSIONS AND CAPACITIES

Wheelbase	114.8 (2,915)
Track, Front	63.7 (1,618)
Track, Rear	64.3 (1,633)
Overall Length	191.3 (4,859)
Overall Width (Width at Mirrors)	84.9 (2,156)

Body Width	77.1 (1,958)
Overall Height (at Roof Rail/at Antenna)	69.1/76.9 (1,756 /1,952)
Load Floor Height	32.4 (823)
Sill Step Height	20.7 (527)
Minimum Ground Clearance	8.3 (210.8)
Chassis (Fuel Tank)	9 (230)
Front Axle	8.97 (227.8)
Rear Axle	8.99 (228.3)
Approach Angle, Degrees	18.45
Ramp Breakover Angle, Degrees	17.84
Departure Angle, Degrees	21.9
Frontal Area, sq. ft. (sq. m.)	31.5 (2.93)
Drag Coefficient	.39
Aero CdA	12.2 (Cd x cross-sectional area)
Fuel Tank Capacity, gal. (L)	24.6 (93.1)
ACCOMMODATIONS	
Seating Capacity, Front/Second	2/3
Front Seat	
Head Room	39.9 (1,013)
Legroom	40.3 (1,025)
Shoulder Room	58.7 (1,491)
Hip Room	57.0 (1,449)
Seat Travel	11.0 (280)
SAE Volume, cu. ft. (cu. m.)	54.6 (1.55)
Rear Seat	
Head Room	39.2 (995)
Legroom	38.6 (981)
Shoulder Room	58.0 (1,474)
Hip Room	56.2 (1,428)
Knee Clearance	4.3 (110)
Couple	34.6 (880)
SAE Volume, cu. ft. (cu. m.)	50.8 (1.4)
Cargo Volume	
Behind Rear Seat, cu. ft. (cu. m.)	35.1 (0.99)
Rear Seats Folded, cu. ft. (cu. m.)	68.7 (1.95)

	MODEL	ENGINE	GVWR^(a) lbs. (kg)	CURB WEIGHT^(b) lbs. (kg)	PAYLOAD^(c) lbs. (kg)
4WD	SRT8	6.4-liter	6,500 (2,948)	5,150 (2,336)	1,350 (612)

(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).

WEIGHT DISTRIBUTION, F/R

4WD	54/46
------------	-------

BODY

Layout	Longitudinal front engine, transfer case with on demand four-wheel drive
Construction	Steel uniframe

EXHAUST

Type	Dual exhaust with active valves and dual 4-in. oval black chrome tips
------	---

SUSPENSION

Front	Short- and long-arm independent (SLA), coil springs, Bilstein Adaptive Damping Suspension (ADS), upper- and lower-control arms ("A" arms), stabilizer bar
Rear	Multi-link rear suspension, coil spring, Bilstein Adaptive Damping Suspension (ADS), aluminum lower control arm, independent upper links (tension and camber) plus a separate toe link, stabilizer bar

STEERING

Type	SRT-tuned power rack and pinion
Steering Ratio	17.5:1
Turn Circle, ft. (m.)	37.1 (11.3)
Lock-to-Lock Steering Wheel Rotations	3.369

BRAKES

Front	
Size and Type	15.0 x 1.34 (380 x 34) vented disc with Brembo six-piston caliper and ABS
Swept Area, sq. in. (sq. cm.)	104.2 (672)
Rear	
Size and Type	13.78 x 1.10 (350 x 28) disc with Brembo four-piston caliper and single-channel ABS
Swept Area, sq. in. (sq. cm.)	79.0 (508)
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.

TIRES

Standard	
Size and Type	P295/45ZR20
Mfr. and Model	Pirelli Scorpion Verde – All-Season Performance (run flat)
Revs per Mile	699
Optional	
Size and Type	P295/45ZR20
Mfr. and Model	Pirelli P-Zero – Three Season (run flat)
Revs per Mile	699

TRAILER TOWING^(a)

	ENGINE	AXLE RATIO	MAXIMUM TRAILER WEIGHT ^(b) LBS. (KG)
4WD	6.4-liter V-8	3.70	5,000 (2269)

- (a) For towing heavier trailers up to the Maximum Trailer Weight Ratings shown in the Trailer Towing chart, the vehicle must be equipped with the Trailer Tow Group Class IV for the 6.4-liter engine for North America.
- (b) Maximum Trailer Weight = GCWR - Curb Wt. with hitch - 300 lbs. (allowance for driver and passenger) and must be decreased by the weight of optional equipment, cargo and additional passengers. Maximum trailer weights shown are rounded to the nearest 50 lbs. 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 2,000 pounds.

• • •