

2006 JEEP® GRAND CHEROKEE SRT8 PRELIMINARY SPECIFICATIONS

GENERAL INFORMATION

Body Style	Four-door sport-utility vehicle
Construction	Steel Uniframe®
Assembly Plant	Jefferson Avenue North, Detroit, USA, and Magna Steyr Assembly Plant in Graz, Austria
EPA Vehicle Class	Multi-purpose vehicle
Introduction date	Fall 2005 as 2006 model

ENGINE: 6.1-LITER, HEMI® V-8

Availability	Std. – Grand Cherokee SRT8
Type and Description	90-degree V-type, liquid-cooled
Displacement	370 cu. in. (6059 cu. cm)
Bore x Stroke	4.06 x 3.58 (103.0 x 90.9)
Valve System	Pushrod-operated overhead valves, 16 valves, 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	10.3:1
Power (estimated SAE net)	415 bhp (318 kW) @ 6200 rpm, (68 bhp/L)
Torque (estimated SAE net)	410 lb.-ft. (569 N•m) @ 4800 rpm
Max. Engine Speed	6400 rpm (electronically limited)
Fuel Requirement	Premium 91 octane (R+M)/2—recommended,
Oil Capacity	7 qt. (6.6L)
Coolant Capacity	14 qt. (13.25L)
Emission Controls	Dual close-coupled three-way catalytic converters, quad heated oxygen sensors and internal engine features
Max. Gross Trailer Weight	3,500 lbs.
EPA Fuel Economy (mpg City/Hwy)	N/A

TRANSMISSION: W5A580 FIVE-SPEED AUTOMATIC

Availability	Std. – Grand Cherokee SRT-8
Description	Adaptive electronic control, Performance tuned AutoStick® driver-interactive manual control and electronically modulated torque converter clutch
Gear Ratios	
1st	3.59
2nd	2.19
3rd	1.41
4th	1.00
5th	0.83
Reverse	3.14
Final Drive Ratio	3.73
Overall Top Gear	3.10

ELECTRICAL SYSTEM

Alternator	160-amp
Battery	H7 Case, 730 CCA, maintenance-free

TRANSFER CASE: MD146 SRT

Availability	Standard
Type	Single-speed
Operating Mode	Electronic On-Demand 4 x 4

Low-Range Ratio	None
Center Differential Type	Electronically controlled clutch pack torque transfer
Torque Split, Front/Rear	Variable

FRONT AXLES

Differential Type	Conventional
Availability	Standard
Ring Gear Diameter	7.9 in. (200mm)
Axle Ratios	3.73:1

REAR AXLES

Differential Type	Conventional
Availability	Standard
Ring Gear Diameter	8.9 in. (226 mm)
Axle Ratios	3.73:1

DIMENSIONS AND CAPACITIES

Wheelbase	109.5 (2781)
Track, Front	63.3 (1608)
Track, Rear	62.1 (1577)
Overall Length	195.1 (4953.3)
Overall Width (width at mirrors)	84.3 (2138.7)
Body Width	73.3 (1861.8)
Overall Height	66.7 (1694.2)
Load Floor Height	31.1 (789.9)
Sill Step Height	20.1 (511.5)
Ground Clearance	
Chassis (fuel tank)	8.5 (215.9)
Front axle	7.5 (190.5)
Rear axle	7.0 (177.8)
Approach Angle	15.8°
Departure Angle	19.7°
Ramp Breakover Angle	9.7°
Curb Weight (estimated)	4788 lbs. (2171 kg) with 6.1-L engine
Weight Distribution, F/R	55/45
Payload	
(includes occupants and cargo)	1050lbs (476 kg)
Frontal Area	30.3 sq. ft. (2.82 sq. m)
Drag Coefficient	0.39
Aero	11.7 (Cd x Cross Sectional Area)
Fuel Tank Capacity	20.5 gal. (77.6-liter)

ACCOMMODATIONS

Seating Capacity, Front/Second Front Seat	2/3
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Head room	39.7 (1008)
Leg room	41.7 (1058)
Shoulder room	59.1 (1502)
Hip room	57.6 (1451)
Seat travel	10.6 (270)
SAE volume	58.02 cu. ft. (1.6 cu. m)
Rear Seat	
Head room	39.3 (999)
Leg room	35.5 (901)
Shoulder room	58.5 (1584)
Hip room	45.8 (1163.7)
Knee clearance	1.44 (36.6)
Couple	33.0 (838.2)
SAE volume	50.84 cu. ft. (1.4 cu. m)
Cargo Volume	
Behind rear seat	34.5 cu. ft. (1.14 cu. m)
Behind front-row seats with rear seats folded	67.4 cu. ft. (2.00 cu. m)

BODY

Layout	Longitudinal front engine, transfer case with Electronic On-Demand four-wheel drive
Construction	Steel Uniframe

SUSPENSION

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

STEERING

Type	Power rack-and-pinion
Overall Ratio	16.5:1 – on center, 14.6:1 – at full lock
Turning Diameter (curb-to-curb) ^(a)	37.1 ft. (11.3 m)
Steering Turns (lock-to-lock)	2.85

(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.

BRAKES

Front	
Size and type	14.2 x 1.3 (360 x 32) vented disc with 1.7 (44) Four-piston Brembo Caliper and ABS

	Swept area	351 sq. in. (2261 sq. cm)
Rear	Size and type	13.8 x 1.1 (350 x 28) disc with 1.1/1.3
	(28/32)	Four-piston fixed and Brembo caliper and four-channel ABS
	Swept area	316 sq. in. (2036 sq. cm)
Power Assist Type		Single-rate, tandem diaphragm vacuum

TIRES^(a)

Front - Standard	Size and type	255/45/ZR20
	Mfr. and model	Goodyear Eagle RS-A All-Season, Run Flat
	Revs per mile	721
Rear - Standard	Size and type	285/40/ZR20
	Mfr. and model	Goodyear Eagle RS-A All-Season, Run Flat
	Revs per mile	721

WHEELS

Front - Standard	Type and Material	Forged / Machined - aluminum wheels
	Size	20" x 9"
Rear - Standard	Type and Material	Forged / Machined - aluminum wheels
	Size	20" x 10"