

2006

JEEP® GRAND CHEROKEE SRT8

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
2006 MY Introduction _____ Fall 2005

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) _____ 420 bhp (313 kW) @ 6,200 rpm, (69 bhp/L)
Torque (estimated SAE net) _____ 420 lb.-ft. (569 N•m) @ 4,800 rpm
Max. Engine Speed _____ 6,400 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

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TRANSMISSION: W5A580 FIVE-SPEED AUTOMATIC

Availability _____ Std.—Grand Cherokee SRT8

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 4x4

Low-Range Ratio _____ None

Center Differential Type _____ Electronically controlled clutch pack torque transfer

Torque Split, Front/Rear _____ Fully variable

FRONT AXLES

Differential Type _____ Conventional

Availability _____ Standard

Ring Gear Diameter _____ 7.9 in. (200 mm)

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

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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°
Ramp Breakover Angle	9.7°
Departure Angle	19.7°
Curb Weight (estimated)	4WD Limited: 4,788 lbs. (2171 kg) with 6.1L engine
Weight Distribution, F/R	4WD 55/45
Payload (includes occupants and cargo) 4WD 6.1L engine	1,050 lbs. (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. (77.6L)

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ACCOMMODATIONS

Seating Capacity, Front/Second _____ 2/3

Front Seat

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 _____ 15.8:1—on center, 13.9:1—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.
Another tire size or band may also be used.

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BRAKES

Front

Size and type _____ 14.2 x 1.25 (360 x 32.0) vented disc with 1.73 (44 mm)
Four-piston Brembo fixed caliper and four channel ABS
Swept area _____ 351 sq. in. (2261 sq. cm)

Rear

Size and type _____ 13.8 x 1.1 (350 x 28) disc with 1.26/1.10 (32/28)
Four-piston fixed 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-W20
Mfr. and model _____ Goodyear Eagle RSA
All-season/run-flat
Revs per mile _____ 721

Rear—Standard

Size and type _____ 285/40-W20
Mfr. and model _____ Goodyear Eagle RSA
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"

- (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.
Another tire size or band may also be used.