

2010 JEEP® GRAND CHEROKEE SRT8® SPECIFICATIONS

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

GENERAL INFORMATION

Body Style	Four-door sport-utility vehicle
Construction	Steel unibody
Assembly Plants	Jefferson Avenue North in Detroit; Magna Steyr, Graz, Austria
EPA Vehicle Class	Multi-purpose vehicle
Introduction Date	Fall 2005 as 2006 model

ENGINE: 6.1-LITER HEMI® V-8

Availability	Standard
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, 16 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)	12/16
Assembly Plant	Saltillo Engine Plant, Saltillo, Mexico

TRANSMISSION: W5A580 FIVE-SPEED AUTOMATIC

Availability	Standard
Description	Adaptive electronic control, performance-tuned Auto Stick 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	3.1

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ELECTRICAL SYSTEM

Alternator	160-amp
Battery	H7 Case, 625 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

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	4,819 lbs. (2186 kg)
GVWR	6,150 lbs. (2790 kg)
Weight Distribution, F/R	56/44
Payload (includes occupants and cargo)	
4WD 6.1L engine	1,050 lbs. (476 kg)
Frontal Area	30.3 sq. ft. (2.82 sq. m)

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Drag Coefficient	0.375
Aero	11.7 (Cd x cross sectional area)
Fuel-tank Capacity	20.5 gal. (77.6L)

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 unibody

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

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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

Front

Standard on Grand Cherokee SRT8	
Size and Type	255/45-R20
Mfr. and Model	Goodyear Eagle RSA all-season/run-flat
Revs per Mile	721

Rear

Standard on Grand Cherokee SRT8	
Size and Type	285/40-R20
Mfr. and Model	Goodyear Eagle RSA all-season/run-flat
Revs per Mile	721

WHEELS

Front

Standard on Grand Cherokee SRT8	
Type and Material	Forged/machined-aluminum wheels
Size	20 x 9-inch

Rear

Standard on Grand Cherokee SRT8	
Type and Material	Forged/machined-aluminum wheels
Size	20 x 10-inch

2010 JEEP® GRAND CHEROKEE SRT8® FEATURE AVAILABILITY

LEGEND: S = Standard, O = Optional, P = Package, — = Not available

Complete package information is listed at the end of the Feature Availability section.

NOTE: Information shown is correct at time of publication and is subject to change.

	SRT8®
EXTERIOR	
Antenna—Fixed	S
Badging	
SRT8 on liftgate passenger side	S
Jeep bright, on hood and liftgate	S
Colors	
Inferno Red Crystal Pearl Coat	
Bright Silver Metallic Clear Coat	
Brilliant Black Crystal Clear Coat	
Red Rock Crystal Pearl Coat	
Modern Blue Pearl Coat	O
Door Handles	
Body-color	S
Fascias	
Body-color	S
Front with integrated brake ducts	S
Rear with center cut-out for 4-inch exhaust tips	S
Front and rear (with bright insert)	S
Fog Lamps—Front	S
Headlamps	
Halogen	S
SmartBeam® High-intensity Discharge (HID) with auto-dimming (included in SRT Option Group II)	P
Glass	
Liftgate, flipper with electric release and self-rising feature	S
Solar Control glass front windshield and front doors	S
Sunscreen Glass rear doors, rear-quarter windows and liftgate	S
Grille	
Body-color	S
Black lattice texture with body-color surround	S
Mirrors	
Dual, power, heated, fold-away and automatic-dimming driver's side (body-color)	S
Moldings	
Belt, chromed	S
Body-side, chromed	S
Sill Extensions	S
Sun Roof—Power with one-touch express open and close feature	O
Wipers	
Variable-delay intermittent	S
Rain-sensing automatic (included in SRT Option Group I)	P
Rear window	S

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	SRT8®
INTERIOR	
Assist Handles	S
Battery Saver—(Automatically turns off exterior and interior lamps after 8 minutes)	S
Cargo Storage—Covered—Load floor includes reversible, water-resistant storage bin	S
Cargo Tie-Down Loops (four) two D-rings at belt line on D-pillar and passenger-side quarter trim panel cargo net and two utility hooks on driver's side	S
Climate Control	
Air conditioning, manual	S
Infrared dual-zone automatic (included in SRT Option Group I)	P
Color	
Dark Slate Gray with accent stitching	S
Consoles	
Full-length floor with dual front cup holders, rear A/C outlets, non-locking storage, lid includes storage net for CD wallet	S
Unique leather-wrapped center console armrest	S
Overhead—Two map/reading lamps and storage bin for sunglasses	S
Defroster—Rear window, electric	S
Door Trim—Carbon weave switch bezels, leather-wrapped door bolsters and armrests (front and rear)	S
HomeLink universal transceiver	S
Illuminated Entry System	S
Instrument Cluster	
Carbon weave aluminum inserts	S
Leather-wrapped cluster brow	S
Instrument cluster includes 180-mph (300-kph) speedometer, tachometer and temperature gauges	S
Instruments trimmed with unique blue accent with carbon-fiber-finish binnacle	S
Oil pressure and temperature displayed in specially configured unit in instrument panel center	S
Electronic Vehicle Information Center (EVIC) (included in SRT Option Group I)	P
Reconfigurable Display with Performance Pages	P
Performance Pages includes 0-60 mph, eighth-mile, quarter-mile, braking distance timers; G-force meter	P
Jeep Memory System—Programmable settings for two drivers: driver's seat, outside mirrors, radio station settings, last radio station and adjustable pedals (included in SRT Option Group I)	P
Lamps	
Glove box, front courtesy/map, rear courtesy/reading with manual switch (two), cargo area and dual function liftgate lamp	S
Pedals—Power-adjustable with bright stainless steel pedal pads and memory (included in SRT Option Group I)	P
Power Accessory Delay (power sun roof and windows remain operable for 45 seconds after ignition off)	S
Power Outlet—Auxiliary 12-volt—instrument panel-mounted	S
Cargo power-point, mounted left-side	S
Seats, Front	
Performance with added bolstering—power-adjustable, 8-way driver, 4-way passenger	S
Heated (included in SRT Option Group I)	P
Seats, Rear	
Single-action folding 60/40-split seat with integrated outboard head restraints and retractable cup holders in seat cushion	S
Heated (included in SRT Option Group II)	P
Sound Insulation	
Hood	S
Dash liner	S
Deluxe Insulation	S
Floor tunnel	S

2010 JEEP® GRAND CHEROKEE SRT8® FEATURE AVAILABILITY

	SRT8®
Sound Systems and Entertainment	
AM/FM/CD/DVD/MDD/MP3 radio	S
SIRIUS Satellite Radio	S
Uconnect™ Multimedia (included in SRT Option Group II)	P
Uconnect Navigation (included in SRT Option Group II)	P
Speakers	
Six Boston Acoustics® (includes two 3.5-inch mid- to high-frequency instrument panel-mounted speakers, two 6 x 9-inch woofers mounted in the front doors and two 6.5-inch full-range speakers mounted in the rear doors; plus six-channel, 285-watt amplifier with Digital Signal Processing [DSP])	S
KICKER® SRT audio system with 200-watt subwoofer (included in SRT High-Performance Audio Group)	P
Shifter	
Carbon weave leather finish	S
Knob—carbon-fiber insert	S
Steering Wheel	
Leather-wrapped with carbon-fiber technical finish	S
Tilt and telescoping column	S
Sun Visors	
Illuminated vanity mirrors and variable intensity lamps	S
Uconnect Phone (included in SRT Option Group I)	P
Windows	
Power—one-touch up/down	S
Operable via remote keyless entry key fob	S
POWERTRAIN AND CHASSIS	
6.1-liter HEMI® V-8 engine with five-speed automatic transmission with Auto Stick	S
Axle Ratio—3.73:1	S
Brakes	
Four-wheel performance ABS	S
Gloss red-painted Brembo calipers	S
Differential Types	
Front—Conventional	S
Rear—Upgraded Dana 44	S
Engine Block Heater	0
Steering—Power rack-and-pinion	S
Suspension	
SRT-tuned dampers, specially tailored spring rates and suspension bushings	S
Large diameter anti-sway bars	S
Modified front and rear knuckles	S
Live axle—Link coil with track bar, stabilizer bar	S
Tires	
Front—255/45R20 Goodyear Eagle RSA all-season/run-flat	S
Rear—285/40R20 Goodyear Eagle RSA all-season/run-flat	S
Wheels	
Front—20-inch x 9-inch five-spoke forged machined-aluminum	S
Rear—20-inch x 10-inch five-spoke forged machined-aluminum	S

2010 JEEP® GRAND CHEROKEE SRT8® FEATURE AVAILABILITY

	SRT8®
SAFETY AND SECURITY	
Air Bags	
Advanced multi-stage driver and front-passenger air bags ^(a)	S
Advanced side-curtain air bags for front and outboard rear-seat occupants	S
Brake Shift and Park Ignition interlocks	S
Door Locks	
Child protection, rear	S
Power with programmable automatic locking keyless entry—remote with two color-coded transmitters	S
Electronic Stability Control (ESC)—Two-mode system uniquely calibrated for SRT application	S
Brake Assist	S
ParkSense® rear-park assist system (included in SRT Option Group I)	P
ParkView™ rear back-up camera (included in SRT Option Group II)	P
Restraint Systems	
Seat Belts	
Front: Three-point belts with shoulder belt height adjusters	S
Rear: Three-point belts for outboard and center	S
LATCH (Lower Anchors and Tether for CHildren)	S
Security Alarm	S
Sentry Key® engine immobilizer theft-deterrent system	S

^(a) Certified to federal regulations that allow less forceful air bags. Always use seat belts. Remember, a back seat is the safest place for children.

PACKAGES / EQUIPMENT GROUPS

SRT Option Group I (must have sun roof)—Includes auto-dimming SmartBeam® headlamps, rain-sensing wipers, auto-dimming exterior mirrors, iPod® Control, remote start, 115-volt auxiliary power outlet, infrared dual-zone automatic temperature control, ParkSense® rear-park assist system, heated front seats, Jeep Memory System, power-adjustable pedals, EVIC with Performance Pages, Uconnect Phone	0
SRT Option Group II—Includes Uconnect Multimedia, ParkView™ rear back-up camera, SmartBeam® HID headlamps with washers, heated second-row seats	0
Navigation/Rear Back-up Camera Group—Includes Uconnect Navigation and ParkView™ rear back-up camera	0
SRT High-Performance Audio Group (must have SRT Option Group I)—Includes 11 speaker KICKER® SRT audio system with 200-watt subwoofer	0
SRT Track Experience—Includes a one-day driving experience designed for SRT owners and performance enthusiasts in order to maximize their driving knowledge and skills on the street or track. All SRT owners and enthusiasts are eligible to participate in this day-long event held at select tracks throughout the season with first-rate driving instruction from professionals at the Richard Petty Driving Experience	S