

2006

DODGE RAM 2500/3500 (REGULAR CAB AND QUAD CAB™)

POWER WAGON SPECIFICATIONS

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

GENERAL INFORMATION

Body Styles _____ Regular cab and Quad Cab™ Short Box
Assembly Plants _____ Saltillo, Mexico and St. Louis, Missouri
EPA Vehicle Class _____ Standard Pickup

ENGINE: 5.7-LITER HEMI® MAGNUM V-8

Availability _____ Std.
Type and Description _____ Eight cylinders, 90° V-type, liquid-cooled
Displacement _____ 343 cu. in. (5654 cu. cm)
Bore x Stroke _____ 3.92 x 3.58 (99.5 x 90.9)
Valve System _____ Pushrod-operated overhead valves, 16 valves, hydraulic lifters 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 _____ 9.6:1
Power (SAE net) _____ 345 bhp (257 kW) @ 5,400 rpm, (58.4 bhp/L)
Torque (SAE Net) _____ 375 lb.-ft. (509 N•m) @ 4,200 rpm
Max. Engine Speed _____ 5,800 rpm
Fuel Requirement _____ Unleaded mid-grade, 89 octane (R+M)/2—recommended, Unleaded regular, 87 octane (R+M)/2—acceptable
Oil Capacity _____ 7 qt. (6.6L)
Coolant Capacity _____ 18.7 qt. (17.7L)
Emission Control _____ Three-way catalytic converter, electronic EGR and internal engine features(a)

ELECTRICAL SYSTEM

Alternator
Availability _____ Standard
Rating _____ 160-amp
Battery
Availability _____ Standard
Description _____ Group 65, maintenance-free, 750 CCA

(a) Meets SULEV 1 emissions requirements in California, New York, Massachusetts, Maine and Vermont.
Meets Tier 2 Bin 10C emissions in the other states.

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TRANSMISSION: 5-45RFE—AUTOMATIC FIVE-SPEED

Availability _____ Optional

Description _____ Three planetary gear sets, one overrunning clutch, full electronic control, electronically controlled converter clutch

Gear Ratios

1st _____ 3.0

2nd _____ 1.67—upshift; 1.50—kick-down

3rd _____ 1.0

4th _____ 0.75

5th _____ 0.67

Overall Top Gear _____ 3.06 with 4.56 axle ratio

TRANSMISSION: G56-MANUAL, SIX-SPEED OVERDRIVE (LATE AVAILABILITY)

Availability _____ Standard with 5.9L high output diesel and 5.7L V-8 engines

Description _____ Synchronized in all gears

Gear Ratios

1st _____ 6.29

2nd _____ 3.48

3rd _____ 2.10

4th _____ 1.38

5th _____ 1.00

6th _____ 0.79

Reverse _____ 5.74

TRANSFER CASES: NV271

Availability _____ Standard

Type _____ Part-time

Operating Modes _____ 2WD; 4WD High; Neutral; 4WD Low

Shift Mechanism _____ NV271—manual

Low-Range Ratio _____ 2.72

Center Differential _____ None

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DIMENSIONS AND CAPACITIES

Quad Cab—4x4, Short Box

Wheelbase	140.5
Track, Front	69.5
Track, Rear	68.5
Overall Length	227.7
Overall Width	79.8
Overall Height	80.6
Tailgate Load Height	36.3
Ground Clearance	
Front axle	8.4
Rear axle	8.3
Approach Angle	35°
Ramp Breakover Angle	25.5°
Departure Angle	26.5°
Frontal Area, sq. ft.	35.4
Drag Coefficient	—
Fuel Tank, gal. (L)	34 (128)

Regular Cab—4x4, Long Box

Wheelbase	140.5
Track, Front	69.5
Track, Rear	68.5
Overall Length	229.7
Overall Width	79.5
Overall Height	80.6
Tailgate Load Height	36.3
Ground Clearance	
Front axle	8.4
Rear axle	8.3
Approach Angle	35°
Ramp Breakover Angle	25.5°
Departure Angle	26.5°
Frontal Area, sq. ft.	35.4
Drag Coefficient	—
Fuel Tank, gal. (L)	35 (132)

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CARGO BOX

Nominal Box Size	6 ft., 3 in.	8 ft.
SAE Volume	60.9 cu. ft. (1.723 cu. m)	74.9 cu. ft. (2.121 cu. m)
Length at Floor, Tailgate Closed	76.3 (1938.3)	98.3 (2497.1)
Cargo Width	70.2 (1783.9)	66.4 (1687)
Distance between Wheelhouses	51.0 (1295)	51.0 (1295)
Depth	20.2 (514.0)	20.2 (514.0)
Tailgate Opening Width	60.6 (1538.0)	60.6 (1538.0)

ACCOMMODATIONS

	Quad Cab	Regular Cab
Seating Capacity, F/R	3/3	3/—
Front		
Head room	40.8 (1037)	40.9 (1040)
Leg room	41.0 (1041)	41.0 (1041)
Shoulder room	67.0 (1702)	67.1 (1705.6)
Hip room	64.9 (1648.2)	64.9 (1648.2)
Seat travel	9.0 (229)	9.0 (229)
Recliner range	45°	45°
Rear		
Head room	40.0 (1015)	—
Leg room	36.7 (1648.2)	—
Shoulder room	66.7 (1094)	—
Hip room	64.6 (1640)	—
Knee clearance	1.1 (28.4)	—
Interior Volume		
Front	64.92 cu. ft.	65.2 cu. ft.
Rear	56.7 cu. ft.	—

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BODY AND CHASSIS

4x4

Layout _____ Longitudinal, front engine;
Hotchkiss drive, transfer case
Construction _____ Ladder-type frame, steel cab, double-wall steel pickup box,

SUSPENSION

Front _____ Live axle, Quadra Link leading arms, track bar,
coil springs, electric disconnecting stabilizer bar,
gas-charged Bilstein monotube shock absorbers
Rear _____ Live axle, longitudinal leaf springs,
gas-charged Bilstein monotube shock absorbers

STEERING

Model	Quad Cab, Short Box	Regular Cab
4x4		
Overall Ratio	13.4:1	13.4:1
Steering Wheel Turns Lock to Lock	2.75	2.75
Turning Diameter (Curb to Curb)(a)	48.9 ft. (14.9 m)	48.9 ft. (14.9 m)

BRAKES

Front
Size and type _____ 13.9 x 1.26 (353 x 35.5)
vented disc with 2 x 2.20 (2 x 56) twin-piston sliding caliper and ABS
Swept area _____ 313.2 sq. in. (2021 sq. cm)
Rear
Size and type _____ 13.9 x 1.18 (352.5 x 30) sliding caliper and ABS
Swept area _____ 309.6 sq. in. (1997 sq. cm)
Power Assist Type _____ 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.

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ESTIMATED TRAILER TOWING CAPACITIES(a)

POWER WAGON QUAD CAB 4WD

GVWR	Box	Engine	Transmission	Payload	Base Curb Weight	GCWR (lbs.)(a)	Max. Trail (lbs.)(b)
8510	Short	5.7L V-8 gas	Automatic five-speed	2430	6081	17,000	10,750
8510	Short	5.7L V-8 gas	Manual six-speed	2400	6113	17,000	10,750

POWER WAGON REGULAR CAB 4WD

GVWR	Box	Engine	Transmission	Payload	Base Curb Weight	GCWR (lbs.)(a)	Max. Trail (lbs.)(b)
8510	Long	5.7L V-8 gas	Automatic five-speed	2660	5854	17,000	11,000
8510	Long	5.7L V-8 gas	Manual six-speed	2620	5886	17,000	11,000

Meets SULEV 1 emissions requirements in California, New York, Massachusetts, Maine and Vermont.

Meets Tier 2 Bin 10C emissions in the other states.

- (a) GCWR is the maximum allowable combined weight of loaded truck and trailer. It includes the weight of passengers, cargo and fuel in the truck and cargo in the trailer.
- (b) GTWR is the maximum allowable weight of the trailer and its cargo. GTWR = GCWR minus curb weight of truck minus 150 pounds allowance for driver and must be further decreased by the weight of optional equipment, trailer hitch, cargo, and passengers. Maximum trailer weights shown are rounded to the nearest 50 pounds. Recommended tongue weight is 10 to 15 percent of loaded trailer weight, but must not exceed 500 pounds using a bumper-mounted hitch ball (Class III trailers) or 1,000 pounds using a weight-distributing receiver hitch (Class IV trailers). This requirement overrides GTWRs shown. Additionally, tongue weight should never cause vehicle to exceed GVWR (Gross Vehicle Weight Rating) or GAWR (Gross Axle Weight Rating). A weight-distributing hitch is recommended for trailers more than 2,000 pounds. An exhaust brake is strongly recommended with manual transmission for trailers weighing more than 10,000 pounds.