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™
Assembly Plants	Saltillo, Mexico and St. Louis, Missouri
EPA Vehicle Class	Standard Pickup

ENGINE: 5.7-LITER HEMI® MAGNUM V-8

Availability	Std.(a)
Type and Description	Eight-cylinder, 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), 2500 series(b) 330 bhp (246 kW) @ 4,800 rpm, (55.9 bhp/L), 3500 series
Torque (SAE net)	375 lb.-ft. (509 N•m) @ 4,200 rpm, 2500 and 3500 series
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	Dual three-way catalytic converters, internal engine features with knock sensors(b)

(a) Not available on 3500 SRW.

(b) All manual transmission-equipped vehicles meet LEV I chassis-certified emissions requirements in California, New York, Massachusetts, Maine and Vermont. Meets Tier 2 HDV 1,2 chassis-certified emissions requirements in 45 remaining states. Ram 2500 and 3500 models equipped with automatic transmission and sold in 45 states meet Tier 2 HDV 1,2 chassis-certified emissions requirements. Ram 2500 models equipped with automatic transmission and sold in California, New York, Massachusetts, Maine and Vermont meet LEV II–MDV 1 category chassis-certified emissions requirements. Ram 3500 models equipped with automatic transmission and sold in California, New York, Massachusetts, Maine and Vermont meet LEV II–MDV 2 category chassis-certified emissions requirements.

continued

SPECIFICATIONS

ENGINE: 5.9-LITER H.O. CUMMINS TURBO DIESEL I-6

Availability	Optional
Type and Description	Six-cylinder, inline, liquid-cooled, turbocharged, intercooled
Displacement	359 cu. in. (5883 cu. cm)
Bore x Stroke	4.02 x 4.72 (102.1 x 119.9)
Valve System	OHV, 24 valves, solid lifters
Fuel Injection	Electronic high-pressure common rail
Construction	Cast-iron block and head
Compression Ratio	17.2:1
Power (SAE net)	325 bhp (242 kW) @ 2,900 rpm—high-output (51.7 bhp/L)(a)
Torque (SAE net)	610 lb.-ft. (827 N•m) @ 1,600 rpm—high output(a)
Maximum High-Idle Engine Speed	3,500 rpm
Fuel Requirement	Diesel
Oil Capacity	12 qt. (11.4L) with filter
Coolant Capacity	32.7 qt. (30.9L)
Emission Controls	Oxidation catalytic converter and internal engine features(a)(b)

ELECTRICAL SYSTEM

Alternator	
Availability	Standard—All
Rating	136-amp
Availability	Included with Heavy-Duty Snow Plow Group
Rating	160-amp
Battery	
Availability	Standard—2500 and 3500 with gasoline engines
Description	Group 65, maintenance-free, 600 CCA
Availability	Standard—All with diesel engines; included in Heavy-Duty Snow Plow and Trailer Tow Groups
Description	Group 65, maintenance-free, 750 CCA

(a) Meets federal heavy-duty diesel engine-certified emission control requirements. Also available to 45 state fleet customers certified as a Federal Clean Fuel Vehicle.

(b) Meets California medium-duty vehicle engine-certified diesel emission control requirements. 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.

continued

SPECIFICATIONS

TRANSMISSION: NV4500HD—MANUAL, FIVE-SPEED OVERDRIVE

Availability	Std. with 5.7-liter V-8 engines
Description	Synchronized in all gears
Gear Ratios	
1st	5.61
2nd	3.04
3rd	1.67
4th	1
5th	0.75
Reverse	5.04
Overall Top Gear Ratio	2.80 with 3.73 axle ratio; 3.07 with 4.10 axle ratio

TRANSMISSION: G56—MANUAL, SIX-SPEED OVERDRIVE

Availability	Std. with 5.9-liter high-output diesel engine
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

TRANSMISSION: 5-45RFE—AUTOMATIC, FIVE-SPEED

Availability	Optional with 5.7-liter engines
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
Reverse	3.00
Overall Top Gear	2.50 with 3.73 axle ratio; 2.75 with 4.10 axle ratio

continued

SPECIFICATIONS

TRANSMISSION: 48RE—AUTOMATIC, FOUR-SPEED OVERDRIVE

Availability	48RE—optional with Cummins diesel engine
Description	Hydraulic control, electronically controlled governor overdrive, overdrive lockout and converter clutch
Gear Ratios	
1st	2.45
2nd	1.45
3rd	1.0
4th	0.69
Reverse	2.20
Overall Top Gear Ratio	2.57 with 3.73 axle ratio; 2.82 with 4.10 axle ratio

TRANSFER CASES: NV271/NV273

Availability	NV271—std. 4x4 ST NV273—std. Laramie; opt. SLT
Type	Part-time
Operating Modes	2WD; 4WD High; Neutral; 4WD Low
Shift Mechanism	NV271—manual; NV273—electric
Low-Range Ratio	2.72
Center Differential	None

continued

SPECIFICATIONS

PRELIMINARY DIMENSIONS AND CAPACITIES

Series	2500		3500		
Box	Short	Long	Short–Single Rear Wheels	Long–Single Rear Wheels	Long–Dual Rear Wheels
QUAD CAB–2WD			**265/70R17**	**245/70R17**	
Wheelbase	140.5	160.5	140.5	160.5	160.5
Track, Front	68.6	68.6	68.6	68.6	68.6
Track, Rear	68.2	67.9	68.2	68.2	75.8
Overall Length	227.7	249.7	227.7	249.7	249.7
Overall Width	79.5	79.5	79.5	79.5	96
Overall Height	74.5	73.8	75	74.3	75.1
Ground Clearance					
Front axle	8.4	7.7	7.8	8.4	8.0
Rear axle	7.1	7.4	7.4	7.1	7.6
Approach Angle	16.1°	14.9°	16.6°	16.2°	16.9°
Ramp Breakover Angle	16.2°	18.4°	17.0°	15.1°	16.3°
Departure Angle	24.4°	23.1°	25.3°	23.3°	24.6°
Frontal Area, sq. ft.	35.1	35.1	35.1	35.1	36.8
Drag Coefficient	–	–	–	–	–
Fuel Tank, gal. (L)	34 (128)	35 (132)	34 (128)	35 (132)	35 (132)

continued

SPECIFICATIONS

DIMENSIONS AND CAPACITIES (CONTINUED)

Series	2500		3500		
Box	Short	Long	Short–Single Rear Wheels	Long–Single Rear Wheels	Long–Dual Rear Wheels
QUAD CAB–4WD					
Wheelbase	140.5	160.5	140.5	160.5	160.5
Track, Front	69.5	69.5	69.5	69.5	69.5
Track, Rear	68.2	68.2	68.2	68.2	75.8
Overall Length	227.7	249.7	227.7	249.7	249.7
Overall Width	79.5	79.5	79.5	79.5	96
Overall Height	78.6	78.5	79.1	78.5	79.1
Ground Clearance					
Front axle	12.9	12.9	8.1	12.9	8.2
Rear axle	7.1	7.1	7.4	7.1	7.6
Approach Angle	23.7°	23.8°	24.2°	23.8°	24.5°
Ramp Breakover Angle	27.2°	22.9°	25.2°	22.9°	23.9°
Departure Angle	28.0°	27.3°	28.9°	27.3°	27.8°
Frontal Area, sq. ft.	35.4	35.4	35.4	35.4	37.1
Drag Coefficient	–	–	–	–	–
Fuel Tank, gal. (L)	34 (128)	35 (132)	34 (128)	35 (132)	35 (132)

REGULAR CAB–2WD

Model	2500–245/70R17	3500–Dual Rear Wheels
Wheelbase	140.5	140.5
Track, Front	68.6	68.6
Track, Rear	68.2	75.8
Overall Length	229.7	229.7
Overall Width	79.6	96
Overall Height	73.9	74.7
Ground Clearance		
Front axle	8.4	8.0
Rear axle	7.1	7.6
Approach Angle	16.1	16.7
Ramp Breakover Angle	16.2	17.5
Departure Angle	23.4	24.8
Frontal Area, sq. ft.	35.1	36.8
Drag Coefficient	–	–
Fuel Tank, gal. (L)	35 (132)	35 (132)

continued

SPECIFICATIONS

REGULAR CAB—4WD

Model	2500—245/70R17	3500—Dual Rear Wheels
Wheelbase	140.5	140.5
Track, Front	69.5	69.5
Track, Rear	68.2	75.8
Overall Length	229.7	229.7
Overall Width	79.6	96
Overall Height	78.1	78.7
Ground Clearance		
Front axle	12.9	8.2
Rear axle	7.1	7.6
Approach Angle, deg.	23.7	24.4
Ramp Breakover Angle, deg.	27.2	25.5
Departure Angle, deg.	27.3	27.9
Frontal Area, sq. ft.	35.4	37.1
Drag Coefficient	—	—
Fuel Tank, gal. (L)	35 (132)	35 (132)

continued

SPECIFICATIONS

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.	–

BODY AND CHASSIS

	4x2	4x4
Layout	Longitudinal, front engine Hotchkiss drive	Longitudinal, front engine Hotchkiss drive, transfer case
Construction	Ladder-type frame, steel cab, double-wall steel pickup box	Ladder-type frame, steel cab, double-wall steel pickup box

SUSPENSION

Front	Short- and long-arm independent, coil springs, gas-charged shock absorbers, stabilizer bar	Live axle, Quadra Link leading arms, track bar, coil springs bar, coil springs, stabilizer bar, gas-charged shock absorbers
Rear	Live axle, longitudinal leaf springs, gas-charged shock absorbers–2500 auxiliary springs added–3500	Live axle, longitudinal leaf springs, gas-charged shock absorbers –2500; auxiliary springs added–3500

continued

SPECIFICATIONS

STEERING

Model	Quad Cab, Short Box	Regular Cab	Quad Cab, Long Box
4x2			
Overall Ratio	15.4:1	15.4:1	15.4:1
Steering Wheel Turns Lock to Lock	3	3	3
Turning Diameter (Curb to Curb)	44.6 ft. (13.6 m)	44.6 ft. (13.6 m)	50.3 ft. (15.3 m)
4x4			
Overall Ratio	13.4:1	13.4:1	13.4:1
Steering Wheel Turns Lock to Lock	2.75	2.75	2.75
Turning Diameter (Curb to Curb)(a)	48.9 ft. (14.9 m)	48.9 ft. (14.9 m)	52.0 ft. (15.8 m)

BRAKES

Model	2500	3500
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	13.9 x 1.26 (353 x 35.5) vented disc with 2 x 2.20 in. (2 x 56) twin-piston sliding caliper and ABS
Swept Area	313.2 sq. in. (2021 sq. cm)	313.2 sq. in. (2021 sq. cm)
Rear Size and Type	13.9 x 1.18 (352.5 x 30) disc with 2 x 1.77 (2 x 45) twin-piston sliding caliper and ABS	Single Rear Wheels—13.9 x 1.18 (352.5 x 30) disc with 2 x 1.77 (2 x 45) twin-piston sliding caliper and ABS Dual Rear Wheels—13.9 x 1.18 (352.5 x 30) disc with 2 x 2.01 in. (2 x 51 mm) twin-piston sliding caliper and ABS
Swept Area	309.6 sq. in. (1997 sq. cm)	309.6 sq. in. (1997 sq. cm)
Power Assist Type	Tandem diaphragm vacuum with gasoline	Hydraulic engines; hydraulic with diesel engines

continued

SPECIFICATIONS

ESTIMATED TRAILER TOWING CAPACITIES(a)

2500 REGULAR CAB 4x2

GVWR	Box	Engine	Transmission	Payload	Base Curb Weight	GCWR (lbs.)	Max. Trailer (lbs.)
8650	Long	5.7L V-8 gas	Manual five-speed	3200	5453	17,000	11,400
8650	Long	5.7L V-8 gas	Auto five-speed	3240	5409	17,000	11,450
9000	Long	5.9L 24V TDHO	Manual six-speed	2620	6385	20,000	13,450
9000	Long	5.9L 24V TDHO	Auto four-speed	2750	6253	20,000	13,600

2500 REGULAR CAB 4x4

GVWR	Box	Engine	Transmission	Payload	Base Curb Weight	GCWR (lbs.)	Max. Trailer (lbs.)
8650	Long	5.7L V-8	Manual five-speed	2780	5869	17,000	11,000
8650	Long	5.7L V-8	Auto five-speed	2820	5831	17,000	11,000
9000	Long	5.9L 24V TDHO	Manual six-speed	2150	6850	20,000	13,000
9000	Long	5.9L 24V TDHO	Auto four-speed	2350	6655	20,000	13,200

2500 QUAD CAB 4x2

GVWR	Box	Engine	Transmission	Payload	Base Curb Weight	GCWR (lbs.)	Max. Trailer (lbs.)
8800	Short	5.7L V-8	Manual five-speed	3120	5685	17,000	11,150
8800	Short	5.7L V-8	Auto five-speed	3160	5637	17,000	11,200
9000	Short	5.9L 24V TDHO	Manual six-speed	2400	6604	20,000	13,250
9000	Short	5.9L 24V TDHO	Auto four-speed	2540	6461	20,000	13,400
8800	Long	5.7L V-8 gas	Manual five-speed	3020	5783	17,000	11,050
8800	Long	5.7L V-8 gas	Auto five-speed	3050	5755	17,000	11,100
9000	Long	5.9L 24V TDHO	Manual six-speed	2300	6703	20,000	13,150
9000	Long	5.9L 24V TDHO	Auto four-speed	2430	6571	20,000	13,300

(a) Estimated Trailer Tow Ratings are for ST models with 4.10 axle ratio. Ratings for SLT models are approximately 100 lbs. less. Ratings with 3.73 axle ratio may also be less.

(b) 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.

(c) 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, 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.

continued

SPECIFICATIONS

ESTIMATED TRAILER TOWING CAPACITIES (CONTINUED)

2500 QUAD CAB 4x4, 2500 DODGE RAM QUAD CAB 4WD ST

GVWR	Box	Engine	Transmission	Payload	Base Curb Weight	GCWR (lbs.)	Max. Trailer (lbs.)
8800	Short	5.7L V-8 gas	Manual five-speed	2720	6081	17,000	10,750
8800	Short	5.7L V-8 gas	Auto five-speed	2760	6043	17,000	10,800
9000	Short	5.9L 24V TDHO	Manual six-speed	2040	6962	20,000	12,900
9000	Short	5.9L 24V TDHO	Auto four-speed	2230	6767	20,000	13,100
8800	Long	5.7L V-8 gas	Manual five-speed	2590	6207	17,000	10,650
8800	Long	5.7L V-8 gas	Auto five-speed	2630	6170	17,000	10,700
9000	Long	5.9L 24V TDHO	Manual six-speed	1860	7145	20,000	12,700
9000	Long	5.9L 24V TDHO	Auto four-speed	2050	6950	20,000	12,900

3500 REGULAR CAB 4x2 WITH DUAL REAR WHEELS

GVWR	Box	Engine	Transmission	Payload	Base Curb Weight	GCWR (lbs.)	Max. Trailer (lbs.)
11,000	Long	5.7L V-8 gas	Manual five-speed	5040	5964	17,000	10,900
11,000		5.7L V-8 gas	Automatic five-speed	5080	5919	17,000	10,950
11,500		5.9L 24V TDHO	Manual six-speed	4790	6713	23,000	16,150
11,500		5.9L 24V TDHO	Automatic four-speed	4920	6581	23,000	16,250

3500 REGULAR CAB 4x4 WITH DUAL REAR WHEELS

GVWR	Box	Engine	Transmission	Payload	Base Curb Weight	GCWR (lbs.)	Max. Trailer (lbs.)
11,500	Long	5.7L V-8 gas	Manual five-speed	5070	6431	17,000	10,400
11,500		5.7L V-8 gas	Automatic five-speed	5110	6393	17,000	10,450
11,500		5.7L V-8 gas	Manual five-speed	5070	6434	17,000	10,400
11,500		5.7L V-8 gas	Automatic five-speed	5100	6396	17,000	10,450
12,200		5.9L 24V TDHO	Manual six-speed	5010	7194	23,000	15,650
12,200		5.9L 24V TDHO	Automatic four-speed	5200	6999	23,000	15,850
12,200		5.9L 24V TDHO	Manual six-speed	5010	7191	23,000	15,650
12,200		5.9L 24V TDHO	Automatic four-speed	5200	6996	23,000	15,850

continued

SPECIFICATIONS

ESTIMATED TRAILER TOWING CAPACITIES (CONTINUED)

3500 QUAD CAB 4x2 WITH SINGLE REAR WHEELS

GVWR	Box	Engine	Transmission	Payload	Base Curb Weight	GCWR (lbs.)	Max. Trailer (lbs.)
9900	Short	5.9L 24V TDHO	Manual five-speed	3230	6665.9	23,000	16,200
9900		5.9L 24V TDHO	Automatic four-speed	3380	6522.9	23,000	16,350

3500 QUAD CAB 4x2 WITH DUAL REAR WHEELS

GVWR	Box	Engine	Transmission	Payload	Base Curb Weight	GCWR (lbs.)	Max. Trailer (lbs.)
11,000	Long	5.7L V-8 gas	Manual five-speed	4680	6315.2	17,000	10,550
11,000		5.7L V-8 gas	Automatic five-speed	4720	6278.2	17,000	10,550
11,500		5.9L 24V TDHO	Manual six-speed	4430	7068.9	23,000	15,800
11,500		5.9L 24V TDHO	Automatic four-speed	4560	6936.9	23,000	15,900

3500 QUAD CAB 4x4 WITH SINGLE REAR WHEELS

GVWR	Box	Engine	Transmission	Payload	Base Curb Weight	GCWR (lbs.)	Max. Trailer (lbs.)
9900	Short	5.9L 24V TDHO	Manual six-speed	2820	7077	23,000	15,750
9900		5.9L 24V TDHO	Automatic four-speed	3020	6882	23,000	15,950

3500 QUAD CAB 4x4 WITH DUAL REAR WHEELS

GVWR	Box	Engine	Transmission	Payload	Base Curb Weight	GCWR (lbs.)	Max. Trailer (lbs.)
11,500	Long	5.7L V-8 gas	Manual five-speed	4710	6790.6	17,000	10,050
11,500		5.7L V-8 gas	Automatic five-speed	4750	6753.6	17,000	10,100
11,500		5.7L V-8 gas	Manual five-speed	4710	6787.1	17,000	10,050
11,500		5.7L V-8 gas	Automatic five-speed	4750	6750.1	17,000	10,100
12,200		5.9L 24V TDHO	Manual six-speed	4640	7557.1	23,000	15,300
12,200		5.9L 24V TDHO	Automatic four-speed	4840	7362.1	23,000	15,500
12,200		5.9L 24V TDHO	Manual six-speed	4650	7553.6	23,000	15,300
12,200		5.9L 24V TDHO	Automatic four-speed	4840	7358.6	23,000	15,500