

2021 Ram 2500 & 3500 Heavy Duty SPECIFICATIONS

Specifications are based on the latest product information available at the time of publication.

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

All dimensions measured at curb weight with standard tires and wheels.

GENERAL INFORMATION

Vehicle Type	Regular Cab, Crew Cab and Mega Cab: 4x2, 4x4
Assembly Plant	Saltillo Truck Assembly Plant, Coahuila, Mexico
EPA Vehicle Class	Standard Pickup

BODY/CHASSIS

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

ENGINE: 6.4-LITER HEMI® V-8

Type and Description	90-degree gasoline V-8 with variable cam timing
Displacement	392 cu. in. (6,417 cu. cm)
Bore X Stroke	4.09 X 3.72 (103.9 X 94.6)
Valve System	Pushrod-operated overhead valves, 16 valves, eight deactivating and eight hydraulic lifters, all with roller followers
Fuel Injection	Sequential, multiport, electronic, returnless
Construction	Deep-skirt cast-iron block with cross-bolted main bearing caps, 356 aluminum cylinder heads with hemispherical combustion chambers
Compression Ratio	10.0:1
Power	410 hp (306 Kw) @ 5,600 RPM
Torque	429 lb.-ft. (582 N•M) at 4,000 RPM
Maximum Engine Speed	5,800 RPM limited

Fuel Requirement	Unleaded regular, 87 octane
Oil Capacity	7.0 quarts (6.6 liters)
Coolant Capacity	16.6 quarts (15.75 liters)
Emission Control	Three-way catalytic converters, heated oxygen sensors, cooled electronic exhaust-gas recirculation (EGR) and individual cylinder fuel control

ENGINE: 6.7-LITER CUMMINS TURBO DIESEL I-6 (2500/3500 Standard Output)

Type and Description	Inline six cylinder, turbocharged, intercooled diesel
Displacement	408 cu. in. (6,690 cu. cm)
Bore X Stroke	4.21 X 4.88 (107 X 124)
Valve System	Pushrod-operated overhead valves, 24 valves, hydraulic lifters
Fuel Injection	Electronic high-pressure common rail
Construction	Compacted graphite iron (CGI) block cast-iron head
Compression Ratio	19.0:1
Power	370 hp (276 Kw) @ 2,800 RPM (68RFE automatic transmission)
Torque	850 lb.-ft. (1,152 N•M) @ 1,700 RPM
Maximum High-Idle Engine Speed	3,200 RPM
Fuel Requirement	Ultra-low sulfur diesel
Oil Capacity	12.0 quarts (11.3 liters) with filter
Coolant Capacity	23.8 quarts (22.50 liters)
Emission Controls	Selective catalytic reduction (SCR)

ENGINE: 6.7-LITER CUMMINS TURBO DIESEL I-6 (3500 High Output)

Type And Description	Inline six cylinder, turbocharged, intercooled diesel
Displacement	408 cu. in. (6,690 cu. cm)
Bore X Stroke	4.21 X 4.88 (107 X 124)
Valve System	Pushrod-operated overhead valves, 24 valves, hydraulic lifters
Fuel Injection	Electronic high-pressure common rail



Construction	Compacted graphite iron (CGI) block cast-iron head
Compression Ratio	16.2:1
Power	400 hp (298 Kw) @ 2,800 RPM (Aisin automatic transmission)
Torque	1,075 lb.-ft. (1,458 N•M) @ 1,800 RPM
Maximum High-Idle Engine Speed	3,200 RPM
Fuel Requirement	Ultra-low sulfur diesel
Oil Capacity	12.0 quarts (11.3 liters) with filter
Coolant Capacity	23.8 quarts (22.50 liters)
Emission Controls	Selective catalytic reduction (SCR)

TRANSMISSION: AISIN AS69RC — AUTOMATIC SIX-SPEED (3500 High Output)

Availability	6.7-liter diesel high output
Description	Three planetary gear sets, full electronic control, electronically controlled converter clutch
Gear Ratios	
1st	3.75
2nd	2.0
3rd	1.34
4th	1.0
5th	0.77
6th	0.63
Reverse	3.54
Axle Ratios	3.73 (SRW and DRW), 4.10 (DRW only)

TRANSMISSION: ZF 8HP75 — AUTOMATIC EIGHT-SPEED

Availability	6.4-liter HEMI V-8
Description	Adaptive electronic control, automatic or Electronic Range Select (ERS) manual control. Five clutch-pack design with only two open clutches in any gear. Torque converter lock with turbine torsional damper for low lock-up speeds in 1st through 8th gear



Gear Ratios	
1st	4.71
2nd	3.14
3rd	2.10
4th	1.67
5th	1.29
6th	1.00
7th	0.84
8th	0.67
Reverse	3.30
Axle Gear Ratios	3.73, 4.10

TRANSMISSION: 68RFE — AUTOMATIC SIX-SPEED

Availability	6.7-liter diesel (standard output 2500 and 3500)
Description	Three planetary gearsets, one overrunning clutch, full electronic control, and electronically controlled converter clutch
Gear Ratios	
1st	3.23
2nd	1.84
3rd	1.41
4th	1.0
5th	0.82
6th	0.63
Reverse	4.44
Axle Ratios	3.73 (SRW and DRW), 4.10 (DRW)



TRANSFER CASE: BW 44-46, BW 44-47

Availability	Optional on 6.7-liter diesel and 6.4-liter HEMI V-8
Type	Part-time – BW 44-47 manual shift and BW 44-46 electric shift
Operating Modes	2WD; 4WD High; Neutral; 4WD Low
Low-Range Ratio	2.64
Center Differential	None

TRANSFER CASE: BW 44-48

Availability	6.7-liter diesel high output
Type	44-48 part-time with electric shift, part-time manual shift
Operating Modes	2WD; 4WD High; Neutral; 4WD Low
Low-Range Ratio	2.64
Center Differential	None

AXLES

Front (4x4)	AAM 9.25-in. beam front axle with center disconnect (locking differentials on Power Wagon)
Rear	AAM 11.5-in. beam rear axle (2500 and 3500 limited-slip and locking differentials on Power Wagon)
	AAM 12.0-in. beam rear axle (3500 Max Tow)

ELECTRICAL SYSTEM

Alternator	
Rating	180-amp included with 6.4-liter HEMI V-8 and 6.7-liter diesel
	220-amp included with 6.7-liter Laramie, Longhorn and Limited
Rating	Dual (220 and 160) optional on 6.4-liter HEMI V-8
Rating	Dual 220-amp optional on 6.7-liter diesel

Battery

Description	Group 65, maintenance-free, 730 CCA on 6.4-liter HEMI V-8
	Dual Group 65, maintenance-free, 730 CCA on 6.7-liter diesel

SUSPENSION 2500

Model	4x2	4x4
Front	Three-link with track bar, coil springs, stabilizer bar, solid axle	Three-link with track bar, coil springs, stabilizer bar, solid axle, disconnecting sway bar (Power Wagon only)
Rear	Five-link with track bar, coil springs, stabilizer bar, solid axle	Five-link with track bar, coil springs, stabilizer bar, solid axle (optional air bags)

SUSPENSION 3500

Model	4x2	4x4
Front	Three-link with track bar, coil springs, stabilizer bar, solid axle	Three-link with track bar, coil springs, stabilizer bar, solid axle
Rear	Two-stage longitudinal leaf (optional supplemental air bags) solid axle	Two-stage longitudinal leaf (optional supplemental air bags) solid axle

BRAKES

Front	
Size and Type	14.17 X 1.54 (359.9 X 39.1) disc with twin-piston pin-slider caliper and ABS
Rear	
Size and Type	14.09 X 1.34 (357.9 X 34.0) disc with twin-piston pin-slider caliper and ABS
Power-Assist Type	Dual-rate, Tandem Diaphragm Vacuum (2500 gas)
	Hydro-boost (2500 diesel and all 3500)



AIR BAGS

Regular Cab	6
Crew Cab	6
Mega Cab	6

STEERING

Power Assist	Hydraulic Assist
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CARGO BOX

NOMINAL BOX SIZE	6-FT. 4-IN. (CREW OR MEGA)	8-FT. (REGULAR OR CREW)
SAE Volume, cu. ft. (cu. m)	57.5 (1.6)	74.7 (2.1)
Length at Floor, Tailgate Closed	76.3 (1,938.5)	98.3 (2,496.5)
Cargo Width	66.4 (1,686.9)	66.4 (1,686.9)
Distance Between Wheelhouses	51 (1,295.4)	51 (1,295.4)
Depth	20.1 (511.1)	20.2 (513.0)
Tailgate Opening Width	60.4 (1,535.3)	60.4 (1,535.3)

EXTERIOR DIMENSIONS

REGULAR CAB 140.5-IN. WB, 8-FT. BOX (2500)	4x2	4x4
Wheelbase	140.2 (3,560)	140.2 (3,560)
Track Width – Front	68.7 (1,745)	68.7 (1,745)
Track Width – Rear	68.1 (1,729)	68.1 (1,729)
Overall Length	232 (5,892)	232 (5,892)
Overall Width @ SgRp Front	83.5 (2,120)	83.5 (2,120)
Overall Height	78 (1,981)	80.2 (2,037)



Ground Clearance		
Suspension or Axle to Ground – Front	7.3 (184)	9.3 (237)
Suspension or Axle to Ground – Rear	8.4 (212)	8.5 (217)
Approach Angle (Degrees)	18.8	22.8
Ramp Breakover Angle (Degrees)	20.8	23.9
Departure Angle (Degrees)	22.9	29.9
Ground Clearance	13 (332)	13.1 (333)
Turning Diameter	45.4 (13.8)	45.5 (13.9)
CREW CAB 149.5-IN. WB, 6-FT. 4-IN. BOX (2500)		
	4x2	4x4
Wheelbase	149 (3,785)	149 (3,785)
Track Width – Front	68.7 (1,745)	68.7 (1,745)
Track Width – Rear	68.1 (1,729)	68.1 (1,729)
Overall Length	238.8 (6,066)	238.8 (6,067)
Overall Width @ SgRp Front	83.5 (2,120)	83.5 (2,120)
Overall Height	78.2 (1,987)	80.2 (2,037)
Suspension or Axle to Ground – Front	7.4 (188)	9.3 (236)
Suspension or Axle to Ground – Rear	8.5 (216)	8.5 (217)
Approach Angle (Degrees)	18.8	22.9
Ramp Breakover Angle (Degrees)	20.3	23.9
Departure Angle (Degrees)	23.6	25.8
Ground Clearance	11.1 (281)	13.1 (333)
Turning Diameter	14.6 (47.9)	14.6 (47.9)



CREW CAB 169.5-IN. WB, 8-FT. BOX (2500)	4x2	4x4
Wheelbase	169 (4,293)	169 (4,293)
Track Width – Front	68.7 (1,734.8)	68.7 (1,745)
Track Width – Rear	68.1 (1,729)	68.1 (1,729)
Overall Length	260.8 (6,626)	260.8 (6,626)
Overall Width @ SgRp Front	83.5 (2,120)	83.5 (2,120)
Overall Height	78.1 (1,983)	80.1 (2,035)
Suspension or Axle to Ground – Front	7.3 (185)	9.4 (237)
Suspension or Axle to Ground – Rear	9.9 (253)	8.6 (218)
Approach Angle (Degrees)	18.7	23.2
Ramp Breakover Angle (Degrees)	19.1	22.7
Departure Angle (Degrees)	22.5	24.7
Ground Clearance	11.1 (282)	13.1 (334)
Turning Diameter	16.3 (53.5)	16.3 (53.5)
POWER WAGON CREW CAB 149.3-IN. WB, 6-FT. 4-IN. BOX	4x2	4x4
Wheelbase	—	149.3 (3,792)
Track Width – Front	—	68.7 (1,745)
Track Width – Rear	—	68.1 (1,729)
Overall Length	—	238.8 (6,067)
Overall Width @ SgRp Front	—	83.4 (2,119)
Overall Height	—	80.9 (2,054)
Suspension or Axle to Ground – Front	—	8.3 (210)
Suspension or Axle to Ground – Rear	—	8.3 (210)
Approach Angle (Degrees)	—	29.4
Ramp Breakover Angle (Degrees)	—	22
Departure Angle (Degrees)	—	26



Ground Clearance	—	14.2 (360)
Turning Diameter	—	14.7 (48.2)
MEGA CAB 160.5-IN. WB, 6-FT. 4-IN. BOX (2500)		
	4x2	4x4
Wheelbase	—	160.4 (4,074)
Track Width – Front	—	68.7 (1,745)
Track Width – Rear	—	68.1 (1,729)
Overall Length	—	249.9 (6,348)
Overall Width @ SgRp Front	—	83.5 (2,120)
Overall Height	—	80.1 (2,036)
Suspension or Axle to Ground – Front	—	9.4 (238)
Suspension or Axle to Ground – Rear	—	8.5 (217)
Approach Angle (Degrees)	—	23.3
Ramp Breakover Angle (Degrees)	—	23.2
Departure Angle (Degrees)	—	25.7
Ground Clearance	—	13.1 (334)
Turning Diameter	—	15.6 (51.2)
REGULAR CAB 140.5-IN. WB, 8-FT. BOX (3500)		
	4x2	4x4
Wheelbase	140.2 (3,560)	140.2 (3,560)
Track Width – Front	67.7 (1,719)	67.7 (1,719)
	69.6 (1,769) DRW	69.6 (1,769) DRW
Track Width – Rear	67.1 (1,703)	67.1 (1,703)
	75.9 (1,927) DRW	75.9 (1,927) DRW
Overall Length	232 (5,892)	232 (5,892)
Overall Width @ SgRp Front	83.5 (2,120)	83.5 (2,120)
	96.5 (2,450) DRW	96.5 (2,450) DRW



Overall Height	77.8 (1,976)	79.5 (2,019)
Suspension or Axle to Ground – Front	7.4 (188)	9.3 (237)
	6.6 (168) DRW	8.5 (216) DRW
Suspension or Axle to Ground – Rear	7.9 (209)	8.5 (217)
	8.2 (208) DRW	8.4 (213) DRW
Approach Angle (Degrees)	18.2	23.2
	16.6 DRW	20.6 DRW
Ramp Breakover Angle (Degrees)	21.8	25.2
	19.7 DRW	23.2 DRW
Departure Angle (Degrees)	25.4	25.2
	23.6 DRW	24.4 DRW
Ground Clearance	11.2 (286)	13.3 (338)
	10.6 (269) DRW	12.4 (314) DRW
Turning Diameter	13.8 (45.4)	13.9 (45.5)
CREW CAB 169.5-IN. WB, 8-FT. BOX (3500)		
	4x2	4x4
Wheelbase	169.1 (4,294)	169.3 (4,300)
Track Width – Front	67.7 (1,719)	67.7 (1,719)
	69.6 (1,769) DRW	69.6 (1,769) DRW
Track Width – Rear	67.1 (1,703)	67.1 (1,703)
	75.9 (1,927) DRW	75.9 (1,927) DRW
Overall Length	260.8 (6,626)	260.8 (6,626)
Overall Width @ SgRp Front	83.5 (2,120)	83.5 (2,120)
	96.5 (2,450) DRW	96.5 (2,450) DRW
Overall Height	78.4 (1,990)	78.4 (1,990)
	77.1 (1,959) DRW	79.3 (2,015) DRW

Suspension or Axle to Ground – Front	7.3 (186)	7.3 (186)
	6.4 (162) DRW	8.4 (214) DRW
Suspension or Axle to Ground – Rear	9.0 (228)	9.0 (228)
	6.4 (162) DRW	9.3 (236) DRW
Approach Angle (Degrees)	18.3	23.3
	16.9 DRW	20.6 DRW
Ramp Breakover Angle (Degrees)	19.5	22.4
	17.3 DRW	21.3 DRW
Departure Angle (Degrees)	24.2	23.5
	21.2 DRW	24.2 DRW
Ground Clearance	11.2 (285)	11.5 (290)
	10.2 (260) DRW	12.3 (312) DRW
Turning Diameter	16.3 (53.6)	16.4 (53.7)
MEGA CAB 160.5-IN. WB, 6-FT. 4-IN. BOX (3500)		
	4x2	4x4
Wheelbase	—	160.4 (4,074)
Track Width – Front	—	67.7 (1,719)
		69.6 (1,769) DRW
Track Width – Rear	—	67.1 (1,704)
		75.9 (1,927) DRW
Overall Length	—	249.9 (6,348)
Overall Width @ SgRp Front	—	83.5 (1,994)
		96.5 (2,450) DRW
Overall Height	—	78.5 (2,036)
		78.9 (2,004) DRW
Suspension or Axle to Ground – Front	—	7.3 (187)
		8.4 (214) DRW



Suspension or Axle to Ground – Rear	—	8.3 (210)
		6.8 (174) DRW
Approach Angle (Degrees)	—	18.5
		21.7 DRW
Ramp Breakover Angle (Degrees)	—	20.3
		21.5 DRW
Departure Angle (Degrees)	—	25.7
		23.1 DRW

INTERIOR DIMENSIONS

ACCOMMODATIONS

Model

Seating Capacity, F/R

FRONT	REGULAR CAB	CREW CAB	MEGA CAB
Seating	3/0 or 2/0	3/3 or 2/3	3/3 or 2/3
Headroom	39.8 (1,011)	40.9 (1,038)	40.9 (1,038)
Legroom	40.9 (1,040)	40.9 (1,040)	40.9 (1,040)
Shoulder Room	65.9 (1,675)	65.9 (1,675)	65.9 (1,675)
Hip Room	62.9 (1,598)	62.9 (1,598)	62.9 (1,598)
REAR	REGULAR CAB	CREW CAB	MEGA CAB
Headroom	—	39.8 (1,010)	40.3 (1,023)
Legroom	—	40.2 (1,022)	43.1 (1,096)
Shoulder Room	—	65.6 (1,666)	65.6 (1,667)
Hip Room	—	62.7 (1,593)	62.8 (1,595)
INTERIOR VOLUME	REGULAR CAB	CREW CAB	MEGA CAB
Front – cu. ft. (cu. m)	62.5 (1.8)	63.9 (1.8)	63.9 (1.8)
Rear – cu. ft. (cu. m)	—	60.7 (1.7)	66 (1.9)

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