



2017 RAM 3500 HEAVY DUTY SPECIFICATIONS

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2017 Ram 3500 Heavy Duty

SPECIFICATIONS

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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, 2WD, 4WD
Assembly Plant	Saltillo Truck Assembly Plant, Coahuila, Mexico
EPA Vehicle Class	Standard Pickup

BODY AND CHASSIS

Model	2WD	4WD
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: 5.7-LITER HEMI® V-8

Type and Description	90-degree V-type, liquid-cooled, with variable-valve timing (VVT)
Displacement	345 cu. in. (5,654 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, multiport, electronic, returnless
Construction	Deep-skirt cast-iron block with cross-bolted main bearing caps, aluminum alloy heads with hemispherical combustion chambers
Compression Ratio	10.5:1
Power	383 hp (286 kW) @ 5,600 rpm
Torque	400 lb.-ft. (542 N•m) @ 4,000 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	7.0 quarts (6.6 liters)
Coolant Capacity	18.3 quarts (17.3 liters)
Emission Control	Three-way catalytic converters, heated oxygen sensors, internal engine features and knock sensors



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ENGINE: 6.4-LITER HEMI V-8

Type and Description	90-degree V-type, liquid-cooled, with variable-valve timing (VVT)
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 de-activating 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 bhp (306 kW) @ 5,600 rpm (all configurations except Mega Cab) Mega Cab — 370 hp (276 kW) @ 4,600 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 (R+M)/2
Oil Capacity	7.0 quarts (6.6 liters)
Coolant Capacity	16.6 quarts (15.8 liters)
Emission Control	Three-way catalytic converters, heated oxygen sensors, cooled electronic EGR and individual cylinder fuel control

ENGINE: 6.7-LITER CUMMINS TURBO DIESEL I-6 (three versions)

Type and Description	Inline, liquid-cooled, turbocharged, intercooled
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, solid lifters
Fuel Injection	Electronic high-pressure common rail
Construction	Cast-iron block and head
Compression Ratio	16.2:1
Power	350 hp (261 kW) @ 2,800 rpm (G56 manual transmission)
Torque	660 lb.-ft. (881 N•m) @ 1,500 rpm
Power	370 hp (276 kW) @ 2,800 rpm (68RFE automatic transmission)
Torque	800 lb.-ft. (1,084 N•m) @ 1,600 rpm
Power	385 hp (287 kW) @ 2,800 rpm (AS69RC automatic transmission)
Torque	900 lb.-ft. (1,220 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)



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Coolant Capacity	23.8 quarts (22.5 liters)
Emission Controls	Selective Catalytic Reduction (SCR)

TRANSMISSION: G56 — MANUAL SIX-SPEED OVERDRIVE

Availability	6.7-liter diesel
Description	Synchronized in all gears
Gear Ratios	
1 st	5.94
2 nd	3.28
3 rd	1.98
4 th	1.31
5 th	1.0
6 th	0.74
Reverse	5.42
Axle ratios	3.42, 3.73 (DRW only)

TRANSMISSION: 66RFE — AUTOMATIC SIX-SPEED

Availability	5.7-liter HEMI V-8 and 6.4-liter HEMI V-8
Description	Three planetary gear sets, one overrunning clutch, full electronic control, electronically controlled converter clutch
Gear Ratios	
1 st	3.23
2 nd	1.84
3 rd	1.41
4 th	1.00
5 th	0.82
6 th	0.63
Reverse	4.44
Axle ratios	3.73, 4.10



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TRANSMISSION: 68RFE — AUTOMATIC SIX-SPEED

Availability	6.7-liter diesel
Description	Three planetary gear-sets, one overrunning clutch, full electronic control, electronically controlled converter clutch
Gear Ratios	
1 st	3.23
2 nd	1.84
3 rd	1.41
4 th	1.0
5 th	0.82
6 th	0.63
Reverse	4.44
Axle Ratios	3.42, 3.73 (DRW only), 4.10 (DRW only)

TRANSMISSION: AS69RC — AUTOMATIC SIX-SPEED

Availability	6.7-liter diesel
Description	Three planetary gear-sets, full electronic control, electronically controlled converter clutch
Gear Ratios	
1 st	3.75
2 nd	2.0
3 rd	1.34
4 th	1.0
5 th	0.77
6 th	0.63
Reverse	3.54
Axle ratios	3.42, 3.73 (DRW only), 4.10 (DRW only)

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

Availability	Optional on 6.7-liter diesel and 5.7-liter HEMI V-8 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



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AXLES

Front	AAM 9.25-in. beam front axle with center disconnect
Rear	AAM 11.5-in. and 11.8-in. beam rear axles

ELECTRICAL SYSTEM

Alternator	
Rating	160-amp standard with 5.7-liter HEMI V-8
Rating	180-amp included with 6.4-liter HEMI V-8 and 6.7-liter, optional on 5.7-liter HEMI V-8
Rating	Dual (220-amp and 160-amp) 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 5.7-liter HEMI V-8 and 6.4-liter HEMI V-8
	Dual Group 65, maintenance-free, 730 CCA on 6.7-liter diesel

SUSPENSION

<i>Model</i>	<i>2WD</i>	<i>4WD</i>
Front	Three-link with track bar, coil springs, stabilizer bar, solid axle	Three-link with track bar, coil springs, stabilizer bar, solid axle
Rear	Hotchkiss leaf spring, solid axle	Hotchkiss leaf spring, solid axle (optional supplemental air bags)

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 (gas) Hydro-boost (diesel)

AIR BAGS

Regular Cab	6
Crew Cab	6
Mega Cab	6



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Power-assist Hydraulic assist

<i>Model</i>	<i>2WD</i>	<i>4WD</i>
Box Length	8-ft.	8-ft.
Wheelbase (nominal)	140.5 (3,568.7)	140.5 (3,568.7)
Turning Diameter – ft. (m) ^(a)	45.1 (13.8)	41.6 (12.7)

Model	2WD	2WD	4WD	4WD
Box Length	6-ft. 4-in.	8-ft.	6-ft. 4-in.	8-ft.
Wheelbase (nominal)	149.5 (3,797.3)	169.5 (4,305.3)	149.5 (3,797.3)	169.5 (4,305.3)
Turning Diameter – ft. (m) ^(a)	47.5 (14.5)	53.2 (16.2)	43.9 (13.4)	49.2 (15)

Model	2WD	4WD
Box Length	6-ft. 4-in.	6-ft. 4-in.
Wheelbase (nominal)	160.5 (4,076.7)	160.5 (4,076.7)
Turning Diameter – ft. (m) ^(a)	50.7 (15.4)	46.9 (14.3)

DIMENSIONS AND CAPACITIES

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 (513.2)
Tailgate Opening Width	60.4 (1,535.3)	60.4 (1,535.3)



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REGULAR CAB 140.5-IN. WB, 8-FT. BOX SRW	4x2	4x4
Wheelbase	140.5 (3,568.7)	140.5 (3,568.7)
Track Width – Front	67.7 (1,719.6)	67.7 (1,719.6)
Track Width – Rear	67.1 (1,704.3)	67.1 (1,704.3)
Overall Length	230.4 (5,852.2)	230.4 (5,852.2)
Overall Width @ SgRP Front	79.1 (2,009.1)	79.1 (2,009.1)
Overall Height	78.4 (1,991.4)	79.8 (2,026.9)
Suspension or Axle to Ground – Front	7.3 (185.4)	9.2 (233.7)
Suspension or Axle to Ground – Rear	8.6 (218.4)	8.6 (218.4)
Approach Angle (degrees)	20.9	25.1
Ramp Breakover Angle (degrees)	20.8	21.3
Departure Angle (degrees)	24.8	25.6
REGULAR CAB 140.5-IN. WB, 8-FT. BOX DRW	4x2	4x4
Wheelbase	140.0 (3,556)	140.5 (3,568.7)
Track Width – Front	68.6 (1,742.4)	69.5 (1,765.3)
Track Width – Rear	75.8 (1,925.3)	75.8 (1,925.3)
Overall Length	230.4 (5,852.2)	230.4 (5,852.2)
Overall Width @ SgRP Front	78.9 (2,004.1)	78.9 (2,004.1)
Overall Height	76.9 (1,953.3)	78.5 (1,993.9)
Suspension or Axle to Ground – Front	6.5 (165.1)	8.5 (215.9)
Suspension or Axle to Ground – Rear	7.9 (200.7)	7.9 (200.7)
Approach Angle (degrees)	19.1	23.6
Ramp Breakover Angle (degrees)	17.2	19.7
Departure Angle (degrees)	23.2	23.8
CREW CAB 149.5-IN. WB, 6-FT. 4-IN. BOX SRW	4x2	4x4
Wheelbase	149.5 (3,797.3)	149.5 (3,797.3)
Track Width – Front	67.7 (1,719.6)	67.7 (1,719.6)
Track Width – Rear	67.1 (1,704.3)	67.1 (1,704.3)
Overall Length	237.3 (6,027.4)	237.3 (6,027.4)
Overall Width @ SgRP Front	79.1 (2,009.1)	79.1 (2,009.1)
Overall Height	78.4 (1,991.4)	79.8 (2,026.9)
Suspension or Axle to Ground – Front	7.3 (185.4)	9.2 (233.7)
Suspension or Axle to Ground – Rear	8.6 (218.4)	8.6 (218.4)
Approach Angle (degrees)	20.9	25.1

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Ramp Breakover Angle (degrees)	20.8	21.3
Departure Angle (degrees)	24.8	25.6

CREW CAB 169.5-IN. WB, 8-FT. BOX SRW	4x2	4x4
Wheelbase	168.9 (4,290.1)	169.3 (4,300.2)
Track Width – Front	67.7 (1,719.6)	67.7 (1,719.6)
Track Width – Rear	67.1 (1,704.3)	67.1 (1,704.3)
Overall Length	259.3 (6,586.2)	259.3 (6,586.2)
Overall Width @ SgRP Front	79.1 (2,009.1)	79.1 (2,009.1)
Overall Height	78.2 (1,986.3)	79.6 (2,021.8)
Suspension or Axle to Ground – Front	7.3 (185.4)	9.1 (231.1)
Suspension or Axle to Ground – Rear	8.6 (218.4)	8.6 (218.4)
Approach Angle (degrees)	21.0	25.1
Ramp Breakover Angle (degrees)	19.5	19.3
Departure Angle (degrees)	23.7	24.4

CREW CAB 169.5-IN. WB, 8-FT. BOX DRW	4x2	4x4
Wheelbase	168.9 (4,290.1)	169.3 (4,300.2)
Track Width – Front	68.6 (1,742.4)	69.5 (1,765.3)
Track Width – Rear	75.8 (1,925.3)	75.8 (1,925.3)
Overall Length	259.3 (6,586.2)	259.3 (6,586.2)
Overall Width @ SgRP Front	79.1 (2,009.1)	79.1 (2,009.1)
Overall Height	77.4 (1,966.0)	78.9 (2,004.1)
Suspension or Axle to Ground – Front	6.4 (162.6)	8.4 (213.4)
Suspension or Axle to Ground – Rear	7.9 (200.7)	7.9 (200.7)
Approach Angle (degrees)	19.2	23.6
Ramp Breakover Angle (degrees)	14.6	16.9
Departure Angle (degrees)	22.9	23.6

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MEGA CAB 160.5-IN. WB, 6-FT. 4-IN. BOX SRW	4x2	4x4
Wheelbase	160.0 (4,064)	160.4 (4,074.2)
Track Width – Front	67.7 (1,719.6)	67.7 (1,719.6)
Track Width – Rear	67.1 (1,704.3)	67.1 (1,704.3)
Overall Length	248.4 (6,309.4)	248.4 (6,309.4)
Overall Width @ SgRP Front	79.1 (2,009.1)	79.1 (2,009.1)
Overall Height	78.3 (1,988.8)	79.7 (2,024.4)
Suspension or Axle to Ground – Front	7.3 (185.4)	9.1 (231.1)
Suspension or Axle to Ground – Rear	8.6 (218.4)	8.7 (221)
Approach Angle (degrees)	20.9	25.1
Ramp Breakover Angle (degrees)	20.1	20.1
Departure Angle (degrees)	24.7	25.5
MEGA CAB 160.5-IN. WB, 6-FT. 4-IN. BOX DRW	4x2	4x4
Wheelbase	160.0 (4,064)	160.4 (4,074.2)
Track Width – Front	68.6 (1,742.4)	69.5 (1,765.3)
Track Width – Rear	75.8 (1,925.3)	75.8 (1,925.3)
Overall Length	248.4 (6,309.4)	248.4 (6,309.4)
Overall Width @ SgRP Front	79.1 (2,009.1)	79.1 (2,009.1)
Overall Height	77.5 (1,968.5)	79.0 (2,006.6)
Suspension or Axle to Ground – Front	6.4 (162.6)	8.4 (213.4)
Suspension or Axle to Ground – Rear	7.9 (200.7)	7.8 (198.1)
Approach Angle (degrees)	19.1	23.6
Ramp Breakover Angle (degrees)	15.2	17.6
Departure Angle (degrees)	23.9	24.6



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ACCOMMODATIONS

Model	Regular Cab	Crew Cab	Mega Cab
Seating Capacity, F/R	3/0 or 2/0	3/3 or 2/3	3/3 or 2/3
Front			
Headroom	39.9 (1,013.5)	41.0 (1,040.5)	41.0 (1,040.5)
Legroom	41 (1,041.4)	41 (1,041.4)	41 (1,041.4)
Shoulder Room	66 (1,676.4)	66 (1,676.4)	66 (1,676.4)
Hip Room	62.9 (1,598.7)	63.2 (1,605.3)	63.2 (1,605.3)
Seat Travel	9.0 (230.0)	9.0 (230.0)	9.0 (230.0)
Recliner Range (degrees)	85 (38 RWD, 47 FWD)	56 (38 RWD, 18 FWD)	56 (38 RWD, 18 FWD)
Rear			
Headroom	N/A	39.9 (1,013.5)	40.3 (1,023.6)
Legroom	N/A	40.3 (1,023.6)	43.3 (1,099.5)
Shoulder Room	N/A	65.7 (1,668.8)	65.7 (1,668.8)
Hip Room	N/A	63.2 (1,605.3)	63.2 (1,605.3)
Interior Volume			
Front – cu. ft. (cu. m)	62.5 (1.8)	64.2 (1.8)	64.2 (1.8)
Rear – cu. ft. (cu. m)	N/A	61.1 (1.7)	66.3 (1.9)

