



## 2014 Ram 3500 Heavy Duty SPECIFICATIONS

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
Assembly Plants	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	Eight-cylinder, 90-degree V-8, 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, 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	10.5:1
Power (SAE gross)	383 bhp (286 kW) @ 5,600 rpm
Torque (SAE gross)	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 qt. (6.6 liter)
Coolant Capacity	17.30 liters
Emission Control	Three-way catalytic converters, heated oxygen sensors, internal engine features and knock sensors



**ENGINE: 6.4-LITER HEMI® V-8**

Type and Description	Eight-cylinder, 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	VVT, push-rod operated overhead valves (16, two-per-cylinder), 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 bear caps, 356 aluminum cylinder heads with hemispherical combustion chambers
Compression Ratio	10.0:1
Power (SAE gross)	410 hp (306 kW) @ 5,600 rpm (all configs except Mega Cab) Mega Cab — 370 hp (276 kW) @ 4,600 rpm
Torque (SAE gross)	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 qt. (6.6 liter)
Coolant Capacity	15.75 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	Six-cylinder, 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	OHV, 24 valves, solid lifters
Fuel Injection	Electronic high-pressure common rail
Construction	Cast-iron block and head
Compression Ratio	16.2:1
Power (SAE gross)	350 bhp (261 kW) @ 2,800 rpm (G56 manual transmission)
Torque (Manual SAE gross)	660 lb.-ft. (881 N•m) @ 1,500 rpm
Power (SAE gross)	370 bhp (276 kW) @ 2,800 rpm (68RFE automatic transmission)
Torque (Automatic SAE gross)	800 lb.-ft. (1084 N•m) @ 1,600 rpm
Power (SAE gross)	385 bhp (287 kW) @ 2,800 rpm (AS69RC automatic transmission)
Torque (Automatic SAE gross)	850 lb.-ft. (1152 N•m) @ 1,700 rpm (3500 only)
Maximum High-idle Engine Speed	3,200 rpm
Fuel Requirement	Ultra low sulfur diesel



Oil Capacity	12.0 qt. (11.3 liter) with filter
Coolant Capacity	22.50 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	
1st	5.94
2nd	3.28
3rd	1.98
4th	1.31
5th	1.0
6th	0.74
Reverse	5.42
Axle ratios	3.42, 3.73 (DRW only)

**TRANSMISSION: 66RFE — AUTOMATIC SIX-SPEED**

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



**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	
1st	3.23
2nd	1.84
3rd	1.41
4th	1.0
5th	0.82
6th	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	
1st	3.75
2nd	2.0
3rd	1.34
4th	1.0
5th	0.77
6th	0.63
Reverse	3.54
Axle ratios	3.42,3.73; 4.10 (DRW only)

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



Availability	Optional on 6.7-liter diesel and 5.7-liter gas and 6.4-liter gas
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

### AXLES

Front	AAM 9.25 inch beam front axle with center disconnect
Rear	AAM 11.5 inch and 11.8 inch beam rear axles (11.8 is only available on 3500)

### ELECTRICAL SYSTEM

Alternator	
Rating	160-amp standard with 5.7-liter
Rating	180-amp included with 6.4-liter gas and 6.7-liter, optional on 5.7-liter
Rating	Dual (220 and 160) optional on 6.4-liter gas
Rating	Dual 220-amp optional on 6.7-liter diesel
Battery	
Description	Group 65, maintenance-free, 750 CCA on 5.7-liter gas and 6.4-liter gas Dual Group 65, maintenance-free, 750 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

### BRAKES

Front	
Size and Type – in. (mm)	Rotors 14.17 x 1.54-in. disc with twin-piston pin-slider caliper and ABS
Rear	
Size and Type – in. (mm)	Rotors 14.09 x 1.34-in. disc with twin-piston pin-slider caliper and ABS
Power-assist type	Dual-rate, tandem diaphragm vacuum (gas) Hydro-boost (diesel)



## AIR BAGS

Reg Cab	6
Crew Cab	6
Mega Cab	6

## STEERING

Power-assist	Hydraulic assist
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### Regular Cab Pickup

<i>Model</i>	<i>2WD</i>	<i>4WD</i>
Box Length	Long	Long
Wheelbase (nominal) – in. (mm)	140.5	140.5
Turning Diameter – ft. (m) <sup>(a)</sup>	45.1	41.6

### Crew Cab® Pickup

<i>Model</i>	<i>2WD</i>	<i>2WD</i>	<i>4WD</i>	<i>4WD</i>
Box Length	Short	Long	Short	Long
Wheelbase (nominal) – in. (mm)	149.5	169.5	149.5	169.5
Turning Diameter –ft. (m) <sup>(a)</sup>	47.5	53.2	43.9	49.2

### Mega Cab Pickup

<i>Model</i>	<i>2WD</i>	<i>4WD</i>
Wheelbase (nominal) – in. (mm)	160.5	160.5
Turning Diameter – ft. (m) <sup>(a)</sup>	50.67	46.86

(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.

## DIMENSIONS AND CAPACITIES

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



<b>REGULAR CAB 140.5"WB 8' 0" BOX DRW</b>	<b>4x2</b>	<b>4x4</b>
Wheelbase	140.0	140.4
Track Width – Front	68.6	69.5
Track Width – Rear	75.8	75.8
Overall Length	230.4	230.4
Overall Width @ SgRP Front	78.9	78.9
Overall Height	76.9	78.5
Suspension or Axle to Ground – Front	6.5	8.5
Suspension or Axle to Ground – Rear	7.9	7.9
Approach Angle	19.1	23.6
Ramp Breakover Angle	17.2	19.7
Departure Angle	23.2	23.8

<b>CREW CAB 149.5"WB 6' 4" BOX SRW</b>	<b>4x2</b>	<b>4x4</b>
Wheelbase	148.9	149.3
Track Width – Front	67.7	67.7
Track Width – Rear	67.1	67.1
Overall Length	237.3	237.3
Overall Width @ SgRP Front	79.1	79.1
Overall Height	78.4	79.8
Suspension or Axle to Ground – Front	7.3	9.2
Suspension or Axle to Ground – Rear	8.6	8.6
Approach Angle	20.9	25.1
Ramp Breakover Angle	20.8	21.3
Departure Angle	24.8	25.6

<b>CREW CAB 169.5"WB 8' 0" BOX SRW</b>	<b>4x2</b>	<b>4x4</b>
Wheelbase	168.9	169.3
Track Width – Front	67.7	67.7
Track Width – Rear	67.1	67.1
Overall Length	259.3	259.3
Overall Width @ SgRP Front	79.1	79.1
Overall Height	78.2	79.6
Suspension or Axle to Ground – Front	7.3	9.1
Suspension or Axle to Ground – Rear	8.6	8.6
Approach Angle	21.0	25.1
Ramp Breakover Angle	19.5	19.3
Departure Angle	23.7	24.4



<b>CREW CAB 169.5"WB 8' 0" BOX DRW</b>	<b>4x2</b>	<b>4x4</b>
Wheelbase	168.9	169.3
Track Width – Front	68.6	69.5
Track Width – Rear	75.8	75.8
Overall Length	259.3	259.3
Overall Width @ SgRP Front	79.1	79.1
Overall Height	77.4	78.9
Suspension or Axle to Ground – Front	6.4	8.4
Suspension or Axle to Ground – Rear	7.9	7.9
Approach Angle	19.2	23.6
Ramp Breakover Angle	14.6	16.9
Departure Angle	22.9	23.6
<b>MEGA CAB 160.5"WB 6' 4" BOX SRW</b>		
	<b>4x2</b>	<b>4x4</b>
Wheelbase	160.0	160.4
Track Width – Front	67.7	67.7
Track Width – Rear	67.1	67.1
Overall Length	248.4	248.4
Overall Width @ SgRP Front	79.1	79.1
Overall Height	78.3	79.7
Suspension or Axle to Ground – Front	7.3	9.1
Suspension or Axle to Ground – Rear	8.6	8.7
Approach Angle	20.9	25.1
Ramp Breakover Angle	20.1	20.1
Departure Angle	24.7	25.5
<b>MEGA CAB 160.5"WB 6' 4" BOX DRW</b>		
	<b>4x2</b>	<b>4x4</b>
Wheelbase	160.0	160.4
Track Width – Front	68.6	69.5
Track Width – Rear	75.8	75.8
Overall Length	248.4	248.4
Overall Width @ SgRP Front	79.1	79.1
Overall Height	77.5	79.0
Suspension or Axle to Ground – Front	6.4	8.4
Suspension or Axle to Ground – Rear	7.9	7.8
Approach Angle	19.1	23.6
Ramp Breakover Angle	15.2	17.6
Departure Angle	23.9	24.6



**ACCOMMODATIONS**

<i>Model</i>	<i>Regular Cab</i>	<i>Crew Cab</i>	<i>Mega Cab</i>
Seating Capacity, F/R	3/0 or 2/0	3/3 or 2/3	3/3 or 2/3
<b>Front</b>			
Head Room	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)
<b>Rear</b>			
Head Room	N/A	39.9 (1,013.5)	40.3 (1,023.6)
Legroom	N/A	40.3 (1,023.3)	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)
<b>Interior Volume</b>			
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)

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