



# 2500/3500 Heavy Duty

## SPECIFICATIONS

### 2012 Ram 2500/3500 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

Body Styles	Regular Cab, Crew Cab and Mega Cab
Assembly Plants	Saltillo Assembly Plant - Coahuila, Mexico
EPA Vehicle Class	Standard Pickup
Introduction Date	2010 Model Year

#### ENGINE: 5.7-LITER HEMI® V-8

Availability	Standard on 2500 Series Models <sup>(a)</sup>
Type and Description	Eight-cylinder, 90-degree V-8, liquid-cooled with variable-valve timing (VVT)
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)	383 bhp (286 kW) @ 5,600 rpm, 2500 series <sup>(b)</sup>
Torque (SAE net)	400 lb.-ft. (542 N•m) @ 4,000 rpm, 2500 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	7.0 qt. (6.6L)
Coolant Capacity	18.7 qt. (17.7L)
Emission Control	Dual three-way catalytic converters, internal engine features with knock sensors <sup>(b)</sup>

(a) Not available on 3500 Series Pickup models.

(b) All manual transmission equipped vehicles meet LEV I chassis-certified emission requirements in California, New York, Massachusetts, Maine and Vermont. Meets Tier 2 HDV 1, 2 chassis-certified emission 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 emission 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 emission 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 emission requirements.



# 2500/3500 Heavy Duty

## SPECIFICATIONS

### ENGINE: 6.7-LITER HIGH OUTPUT CUMMINS® TURBO DIESEL I-6

Availability	Standard on 3500 Series
Type and Description	Six-cylinder, inline, liquid-cooled, turbocharged, intercooled
Displacement	408 cu. in. (6690 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	17.3:1
Power (SAE net)	350 bhp (261 kW) @ 3,000 rpm
Torque (Manual SAE net)	650 lb.-ft. (881 N•m) @ 1,500 rpm
Torque (Automatic SAE net)	800 lb.-ft. (881 N•m) @ 1,500 rpm
Maximum High-idle Engine Speed	3,500 rpm
Fuel Requirement	Ultra low sulfur diesel
Oil Capacity	12.0 qt. (11.3L) with filter
Coolant Capacity	29.5 qt. (28.0L)
Emission Controls	No diesel exhaust fluid required

### ELECTRICAL SYSTEM

Alternator	
Availability	Standard—All
Rating	160-amp
Availability	Optional
Rating	180-amp included with Snow Plow Prep Package
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



# 2500/3500 Heavy Duty

## SPECIFICATIONS

### TRANSMISSION: G56—MANUAL SIX-SPEED OVERDRIVE

Availability	Standard with 6.7-liter High-output Diesel
Description	Synchronized in all gears
Gear Ratios ( 6.7L Diesel)	
1st	5.94
2nd	3.28
3rd	1.98
4th	1.31
5th	1.00
6th	0.74
Reverse	5.42

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

Availability	Standard with 5.7-liter engines on 2500 series models
Description	Three planetary gear sets, one overrunning clutch, full electronic control, electronically controlled converter clutch
Gear Ratios	
1st	3.231
2nd	1.837
3rd	1.41
4th	1
5 <sup>th</sup>	0.816
6 <sup>th</sup>	0.625
Reverse	4.444
Overall Top Gear	2.33 with 3.73 axle ratio; 2.56 with 4.10 axle ratio, 2.85 with 4.56 axle ratio

### TRANSMISSION: 68RFE—AUTOMATIC SIX-SPEED

Availability	Optional with 6.7L Cummins Turbo Diesel engine
Description	Three planetary gear-sets, one overrunning clutch, full electronic control, electronically controlled converter clutch
Gear Ratios	
1st	3.231
2nd	1.837
3rd	1.41
4th	1
5 <sup>th</sup>	0.816
6 <sup>th</sup>	0.625
Reverse	4.444
Overall Top Gear	2.33 with 3.73 axle ratio; 2.56 with 4.10 axle ratio



# 2500/3500 Heavy Duty

## SPECIFICATIONS

### TRANSFER CASES: NV271/NV273

Availability	NV271—Standard 4WD ST NV273—Standard Laramie; Optional 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



## 2012 Ram 2500 Heavy Duty DIMENSIONS AND CAPACITIES

<b>REGULAR CAB 140.5"WB 8' 0" BOX SRW</b>	<b>4x2</b>	<b>4x4</b>
Wheelbase	140.5	140.0
Track Width – Front	68.6	68.3
Track Width – Rear	68.2	68.2
Overall Length	231.0	231.0
Overall Width @ SgRP Front	78.9	78.9
Overall Height	73.3	75.7
Suspension or Axle to Ground – Front	7.6	7.5
Suspension or Axle to Ground – Rear	7.4	7.4
Approach Angle	16.4	18.1
Ramp Breakover Angle	16.5	16.9
Departure Angle	22.8	27.6

<b>CREW CAB 149.5"WB 6' 4" BOX SRW</b>	<b>4x2</b>	<b>4x4</b>
Wheelbase	149.4	148.9
Track Width – Front	68.6	68.3
Track Width – Rear	68.2	68.2
Overall Length	237.4	237.4
Overall Width @ SgRP Front	79.1	79.1
Overall Height	73.7	77.7
Suspension or Axle to Ground – Front	7.1	7.4
Suspension or Axle to Ground – Rear	7.3	7.1
Approach Angle	12.5	21.8
Ramp Breakover Angle	15.1	18.2
Departure Angle	23.7	27.0

<b>CREW CAB 169.5"WB 8' 0" BOX SRW</b>	<b>4x2</b>	<b>4x4</b>
Wheelbase	169.4	168.9
Track Width – Front	68.6	68.3
Track Width – Rear	68.2	68.2
Overall Length	259.4	259.4
Overall Width @ SgRP Front	79.1	79.1
Overall Height	73.5	77.6
Suspension or Axle to Ground – Front	7.1	7.3
Suspension or Axle to Ground – Rear	7.3	7.2
Approach Angle	12.5	21.8
Ramp Breakover Angle	14.1	16.5
Departure Angle	22.7	25.9



# 2500/3500 Heavy Duty

## SPECIFICATIONS

<b>MEGA CAB 160.5"WB 6' 4" BOX SRW</b>	<b>4x2</b>	<b>4x4</b>
Wheelbase	160.5	160.0
Track Width – Front	68.6	68.3
Track Width – Rear	68.2	68.2
Overall Length	248.4	248.4
Overall Width @ SgRP Front	79.1	79.1
Overall Height	74.1	78.3
Suspension or Axle to Ground – Front	7.8	8.1
Suspension or Axle to Ground – Rear	7.8	7.7
Approach Angle	14.0	23.4
Ramp Breakover Angle	15.8	18.3
Departure Angle	24.2	27.6
<b>Cargo Box</b>		
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 – in. (mm)	76.3 (1938.5)	98.3 (2496.5)
Cargo Width – in. (mm)	66.4 (1686.9)	66.4 (1686.9)
Distance Between Wheelhouses – in. (mm)	51 (1295.4)	51 (1295.4)
Depth – in. (mm)	20.1 (510.5)	20.2 (513.2)
Tailgate Opening Width in. – (mm)	60.4 (1535.3)	60.4 (1535.3)

## ACCOMMODATIONS

<b>Model</b>			
	<b>Regular Cab</b>	<b>Crew Cab</b>	<b>Mega Cab®</b>
Seating Capacity, F/R	3/0 or 2/0	3/3 or 2/3	3/3 or 2/3
<b>Front</b>			
Head Room – in. (mm)	40.3 (1022.6)	41.0 (1040.5)	41.0 (1040.5)
Legroom – in. (mm)	41 (1041.3)	41 (1041.3)	41 (1041.3)
Shoulder Room – in. (mm)	66 (1676.4)	66 (1676.5)	66 (1676.5)
Hip Room – in. (mm)	62.9 (1676.4)	63.2 (1604.6)	63.2 (1604.6)
Seat Travel – in. (mm)	7.1 (179.2)	7.1 (179.2)	7.1 (179.2)
Recliner Range (degrees)	14°	42°	42°
<b>Rear</b>			
Head Room – in. (mm)	N/A	39.9 (1013.5)	39.7 (1007.3)
Legroom – in. (mm)	N/A	40.3 (1023.6)	34.7 (881.4)
Shoulder Room – in. (mm)	N/A	65.7 (1670)	65.7 (1670)
Hip Room – in. (mm)	N/A	63.2 (1605.2)	62.9 (1598.3)
<b>Interior Volume</b>			
Front – cu. ft. (cu m)	63.0 (1.8)	64.2 (1.8)	64.2 (1.8)
Rear – cu. ft. (cu m)	N/A	61.1 (1.7)	52.4 (1.5)





# 2500/3500 Heavy Duty

## SPECIFICATIONS

### BODY AND CHASSIS

<b>Model</b>	<b>2WD</b>	<b>4WD</b>
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

### SUSPENSION

<b>Model</b>	<b>2WD</b>	<b>4WD</b>
Front	Upper and lower "A" arms, coil springs, stabilizer bar	Five-link with track bar, coil springs, stabilizer bar, solid axle
Rear	Hotchkiss leaf spring suspension, solid axle	Hotchkiss leaf spring suspension, solid axle

### STEERING

#### Regular Cab Pickup

<b>Model</b>	<b>2WD</b>	<b>4WD</b>
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

<b>Model</b>	<b>2WD</b>	<b>2WD</b>	<b>4WD</b>	<b>4WD</b>
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

<b>Model</b>	<b>2WD</b>	<b>4WD</b>
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.

### 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-inch disc with twin-piston pin-slider caliper and ABS
Power-assist Type	Dual-rate, tandem diaphragm vacuum (gas) Hydro-boost (diesel)



# 2500/3500 Heavy Duty

SPECIFICATIONS

## 2012 Ram 3500 Heavy Duty DIMENSIONS AND CAPACITIES

<b>REGULAR CAB 140.5"WB 8' 0" BOX DRW</b>	<b>4x2</b>	<b>4x4</b>
Wheelbase	140.5	140.0
Track Width – Front	68.6	69.5
Track Width – Rear	75.8	75.8
Overall Length	231.0	231.0
Overall Width @ SgRP Front	78.9	78.9
Overall Height	73.6	77.9
Suspension or Axle to Ground – Front	8.0	8.4
Suspension or Axle to Ground – Rear	7.6	7.7
Approach Angle	17.2	25.5
Ramp Breakover Angle	14.4	20.9
Departure Angle	23.1	26.5

<b>CREW CAB 149.5"WB 6' 4" BOX SRW</b>	<b>4x2</b>	<b>4x4</b>
Wheelbase	149.4	148.9
Track Width – Front	68.6	68.3
Track Width – Rear	68.2	68.2
Overall Length	237.4	237.4
Overall Width @ SgRP Front	79.1	79.1
Overall Height	74.2	78.4
Suspension or Axle to Ground – Front	7.8	8.1
Suspension or Axle to Ground – Rear	7.8	7.8
Approach Angle	13.9	23.4
Ramp Breakover Angle	16.3	19.4
Departure Angle	24.2	27.7

<b>CREW CAB 169.5"WB 8' 0" BOX SRW</b>	<b>4x2</b>	<b>4x4</b>
Wheelbase	169.4	168.9
Track Width – Front	68.6	68.3
Track Width – Rear	68.2	68.2
Overall Length	259.4	259.4
Overall Width @ SgRP Front	79.1	79.1
Overall Height	74.1	78.3
Suspension or Axle to Ground – Front	7.8	8.1
Suspension or Axle to Ground – Rear	7.8	7.7
Approach Angle	14.1	23.5
Ramp Breakover Angle	15.4	17.6
Departure Angle	23.1	26.4





# 2500/3500 Heavy Duty

## SPECIFICATIONS

<b>CREW CAB 169.5"WB 8' 0" BOX DRW</b>	<b>4x2</b>	<b>4x4</b>
Wheelbase	169.4	168.9
Track Width – Front	68.6	69.5
Track Width – Rear	75.8	75.8
Overall Length	249.4	259.4
Overall Width @ SgRP Front	79.1	79.1
Overall Height	74.1	78.3
Suspension or Axle to Ground – Front	7.9	8.3
Suspension or Axle to Ground – Rear	7.6	7.6
Approach Angle	14.4	23.8
Ramp Breakover Angle	12.0	17.8
Departure Angle	22.9	26.3

  

<b>MEGA CAB 160.5"WB 6' 4" BOX SRW</b>	<b>4x2</b>	<b>4x4</b>
Wheelbase	160.5	160.0
Track Width – Front	68.6	68.3
Track Width – Rear	68.2	68.2
Overall Length	248.4	248.4
Overall Width @ SgRP Front	79.1	79.1
Overall Height	74.1	78.3
Suspension or Axle to Ground – Front	7.8	8.1
Suspension or Axle to Ground – Rear	7.8	7.7
Approach Angle	14.0	23.4
Ramp Breakover Angle	15.8	18.3
Departure Angle	24.2	27.6

  

<b>MEGA CAB 160.5"WB 6' 3" BOX DRW</b>	<b>4x2</b>	<b>4x4</b>
Wheelbase	160.5	160.0
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	74.1	78.3
Suspension or Axle to Ground – Front	7.9	8.3
Suspension or Axle to Ground – Rear	7.6	7.5
Approach Angle	14.3	23.8
Ramp Breakover Angle	12.5	18.5
Departure Angle	23.9	27.3



# 2500/3500 Heavy Duty

## SPECIFICATIONS

### Cargo Box

<b>Nominal Box Size</b>	<b>6 ft 4 in (Crew or Mega)</b>	<b>8 ft (Regular or Crew)</b>
SAE Volume, cu. ft. (cu m)	57.5 (1.6)	74.7 (2.1)
Length at Floor, Tailgate Closed – in. (mm)	76.3 (1938.5)	98.3 (2496.5)
Cargo Width – in. (mm)	66.4 (1686.9)	66.4 (1686.9)
Distance Between Wheelhouses – in. (mm)	51 (1295.4)	51 (1295.4)
Depth – in. (mm)	20.1 (510.5)	20.2 (513.2)
Tailgate Opening Width in. – (mm)	60.4 (1535.3)	60.4 (1535.3)

### ACCOMMODATIONS

<b>Model</b>	<b>Regular Cab</b>	<b>Crew Cab</b>	<b>Mega Cab®</b>
Seating Capacity, F/R	3/0 or 2/0	3/3 or 2/3	3/3 or 2/3
<b>Front</b>			
Head Room – in. (mm)	40.3 (1022.6)	41.0 (1040.5)	41.0 (1040.5)
Legroom – in. (mm)	41 (1041.3)	41 (1041.3)	41 (1041.3)
Shoulder Room – in. (mm)	66 (1676.4)	66 (1676.5)	66 (1676.5)
Hip Room – in. (mm)	62.9 (1676.4)	63.2 (1604.6)	63.2 (1604.6)
Seat Travel – in. (mm)	7.1 (179.2)	7.1 (179.2)	7.1 (179.2)
Recliner Range (degrees)	14°	42°	42°
<b>Rear</b>			
Head Room – in. (mm)	N/A	39.9 (1013.5)	39.7 (1007.3)
Legroom – in. (mm)	N/A	40.3 (1023.6)	34.7 (881.4)
Shoulder Room – in. (mm)	N/A	65.7 (1670)	65.7 (1670)
Hip Room – in. (mm)	N/A	63.2 (1605.2)	62.9 (1598.3)
<b>Interior Volume</b>			
Front – cu. ft. (cu m)	63.0 (1.8)	64.2 (1.8)	64.2 (1.8)
Rear – cu. ft. (cu m)	N/A	61.1 (1.7)	52.4 (1.5)

### BODY AND CHASSIS

<b>Model</b>	<b>2WD</b>	<b>4WD</b>
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



# 2500/3500 Heavy Duty

## SPECIFICATIONS

### SUSPENSION

<i>Model</i>	<i>2WD</i>	<i>4WD</i>
Front	Upper and lower "A" arms, coil springs, stabilizer bar	Five-link with track bar, coil springs, stabilizer bar, solid axle
Rear	Hotchkiss leaf spring suspension, solid axle	Hotchkiss leaf spring suspension, solid axle

### STEERING

#### *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.

### 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)

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