



Chassis Cab

SPECIFICATIONS

2012 Ram 3500/4500/5500 Chassis Cab SPECIFICATIONS

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

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

NOTE: Information shown is correct at time of publication and is subject to change. Typical 2012 Ram 3500 Crew Cab Chassis Cab. Some unique exceptions showing 4500 and 5500 complexity are included.

GENERAL INFORMATION

Body Style	Chassis Cab: Regular Cab and Crew Cab
Assembly Plant	Saltillo Truck Assembly Plant, Saltillo, Mexico
EPA Vehicle Class	Medium Heavy Duty
Introduction	2011 Model Year

ENGINE: 5.7-LITER HEMI® V-8

Availability	Standard on 3500
Type and Description	Eight-cylinder, 90-degree V-type, 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 hp (286 kW) @ 5,600 rpm
Torque (SAE net)	400 lb.-ft. (542 N•m) @ 4,000 rpm
Maximum 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



Chassis Cab

SPECIFICATIONS

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

Availability	Optional on 3500, Standard on 4500 and 5500
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 mm x 124 mm)
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)	305 hp (227 kW) @ 2,900 rpm
Torque (SAE net)	610 lb.-ft. (827 N•m) @ 1,600 rpm
Maximum Engine Speed	3,500 rpm
Fuel Requirement	Ultra-low sulfur diesel
Oil Capacity	(Low ash req.) 12.0 qt. (11.3L) with filter
Coolant Capacity	32.7 qt. (30.9L)
Emission Controls	Selective Catalytic Reduction (SCR)

ELECTRICAL SYSTEM

Alternator

Availability	Standard — Gas 3500
Rating	160-amp
Battery	Maintenance-free, 750 CCA

Availability	Standard — 3500, Optional — Gas 3500, Standard 4500 and 5500
Rating	180-amp
Battery	Maintenance-free, 750 CCA

Availability	Optional — Diesel 3500, 4500 and 5500
Rating	220-amp
Battery	Maintenance-free, 750 CCA

Battery

Availability	Standard — Gas 3500
Description	Group 65, maintenance-free, 750 CCA
Availability	Optional — Diesel 3500, Standard — 4500 and 5500
Description	Dual, Group 65, maintenance-free, 750 CCA



Chassis Cab

SPECIFICATIONS

TRANSMISSION: 66RFE-AUTOMATIC SIX-SPEED

Availability	Standard — 5.7-liter engine 3500
Description	Planetary gear sets, one overrunning clutch, full electronic control, electronically controlled converter clutch
Gear Ratios	
1 st	3.23
2 nd	1.84 — upshift; 1.50 — kickdown
3 rd	1.41
4 th	1.00
5 th	0.82
6 th	.63
Reverse	4.44
Final Drive	2.58 with 4.10 axle ratio

TRANSMISSION: G56-MANUAL SIX-SPEED OVERDRIVE

Availability	Standard — Diesel 3500, Standard 4500 and 5500
Description	Synchronized in all gears
PTO Capable	Six-bolt mounting, left side
Gear Ratios	
1 st	5.94
2 nd	3.28
3 rd	1.98
4 th	1.3
5 th	1
6 th	0.74
Reverse	5.42
Final Drive	3.03 with 4.10 axle ratio, 3.29 with 4.44 axle ratio



Chassis Cab

SPECIFICATIONS

TRANSMISSION: AISIN AS68RC SIX-SPEED

Availability	Optional — 3500 Diesel, Optional 4500 and 5500
PTO Capable (35 HP max)	Six-bolt mounting; right side
Description	Electronically controlled overdrive lockout, electronically controlled converter clutch
Gear Ratios	
1 st	3.74
2 nd	2.00
3 rd	1.34
4 th	1
5 th	0.77
6 th	0.63
Reverse	3.54
Overall Top Gear Ratio	2.80 with 4.44 axle ratio; 3.07 with 4.88 axle ratio

TRANSFER CASE: NV273, (NV271)

Availability	Standard (4x4) all models
Type	Part-time
Operating Modes	2WD; 4WD High; Neutral; 4WD Low
Shift Mechanism	NV273 — electric (NV271 manual)
Low-range Ratio	2.72
Center Differential	None



Chassis Cab

SPECIFICATIONS

2012 Ram 3500 Chassis Cab

DIMENSIONS AND CAPACITIES

Regular Cab 143.5"WB 60"CA SRW

	4x2	4x4
Wheelbase	143.4	143.4
Track Width – Front	68.7	68.7
Track Width – Rear	68.1	68.1
Overall Length	234.3	234.3
Overall Width @ Single Ground Reference Point (SgRP) Front	78.9	78.9
Overall Height	78.3	78.3
Suspension or Axle to Ground – Front	9.9	8.4
Suspension or Axle to Ground – Rear	7.5	7.5
Approach Angle	23.8	23.8
Ramp Breakover Angle	21.3	21.3
Departure Angle	29.2	29.2

Regular Cab 143.5"WB 60"CA DRW

	4x2	4x4
Wheelbase	143.4	143.4
Track Width – Front	69.6	69.6
Track Width – Rear	68.1	68.1
Overall Length	234.3	234.3
Overall Width @ Single Ground Reference Point (SgRP) Front	78.9	78.9
Overall Height	78.4	78.4
Suspension or Axle to Ground – Front	10.0	8.4
Suspension or Axle to Ground – Rear	7.7	7.7
Approach Angle	23.9	23.9
Ramp Breakover Angle	21.4	21.4
Departure Angle	29.3	29.3



Chassis Cab

SPECIFICATIONS

Regular Cab 167.5"WB 84"CA DRW

	4x2	4x4
Wheelbase	167.4	167.4
Track Width - Front	69.6	69.6
Track Width - Rear	71.7	71.7
Overall Length	258.3	258.3
Overall Width @ Single Ground Reference Point (SgRP) Front	78.9	78.9
Overall Height	78.0	78.0
Suspension or Axle to Ground – Front	10.0	8.4
Suspension or Axle to Ground – Rear	7.6	7.6
Approach Angle	24.2	24.2
Ramp Breakover Angle	18.4	18.4
Departure Angle	28.4	28.4

Crew Cab 172.4"WB 60"CA SRW

	4x2	4x4
Wheelbase	172.3	172.3
Track Width – Front	68.7	68.7
Track Width – Rear	68.1	68.1
Overall Length	263.2	263.2
Overall Width @ Single Ground Reference Point (SgRP) Front	79.1	79.1
Overall Height	78.8	78.8
Suspension or Axle to Ground – Front	9.9	8.3
Suspension or Axle to Ground – Rear	7.5	7.5
Approach Angle	23.9	23.9
Ramp Breakover Angle	18.3	18.3
Departure Angle	29.0	29.0



Chassis Cab

SPECIFICATIONS

Crew Cab 172.4"WB 60"CA DRW

	4x2	4x4
Wheelbase	172.3	172.3
Track Width – Front	69.6	69.6
Track Width – Rear	71.7	71.7
Overall Length	263.2	263.2
Overall Width @ Single Ground Reference Point (SgRP) Front	79.1	79.1
Overall Height	78.5	78.5
Suspension or Axle to Ground – Front	9.9	8.4
Suspension or Axle to Ground – Rear	7.5	7.5
Approach Angle	24.3	24.3
Ramp Breakover Angle	18.0	18.0
Departure Angle	28.3	28.3

ACCOMMODATIONS

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

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



Chassis Cab

SPECIFICATIONS

SUSPENSION

<i>Model</i>	<i>2WD</i>	<i>4WD</i>
Front	Five-link beam axle with coil springs	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

<i>Model</i>	<i>60" SRW</i>	<i>60" DRW</i>	<i>84" DRW</i>
Wheelbase (nominal) – in. (mm)	143.1	143.3	167.3
Turning Diameter – ft. (m) ^(a)	41.7	41.7	47.9

Crew Cab[®]

<i>Model</i>	<i>60" SRW</i>	<i>60" DRW</i>
Wheelbase (nominal) – in. (mm)	172	172.2
Turning Diameter – ft. (m) ^(a)	45.1 (13.7)	45.4 (13.8)

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)



Chassis Cab

SPECIFICATIONS

2012 Ram 4500/5500 Chassis Cab

DIMENSIONS AND CAPACITIES

Regular Cab 144.5"WB 60"CA DRW

	4x2	4x4
Wheelbase	144.6	144.6
Track Width – Front	76.0	76.0
Track Width – Rear	73.6	73.6
Overall Length	234.3	234.3
Overall Width @ Single Ground Reference Point (SgRP) Front	78.9	78.9
Overall Height	80.1	80.1
Suspension or Axle to Ground – Front	10.3	8.7
Suspension or Axle to Ground – Rear	8.4	8.4
Approach Angle	28.3	28.3
Ramp Breakover Angle	23.7	23.7
Departure Angle	31.1	31.1

Regular Cab 168.5"WB 84"CA DRW

	4x2	4x4
Wheelbase	168.6	168.6
Track Width – Front	76.0	76.0
Track Width – Rear	73.6	73.6
Overall Length	258.3	258.3
Overall Width @ Single Ground Reference Point (SgRP) Front	78.9	78.9
Overall Height	80.0	80.0
Suspension or Axle to Ground – Front	10.3	8.7
Suspension or Axle to Ground – Rear	8.4	8.4
Approach Angle	28.4	28.4
Ramp Breakover Angle	20.8	20.8
Departure Angle	31.0	31.0



Chassis Cab

SPECIFICATIONS

Regular Cab 192.5"WB 108"CA DRW

	4x2	4x4
Wheelbase	192.6	192.6
Track Width – Front	76.0	76.0
Track Width – Rear	73.6	73.6
Overall Length	282.3	282.3
Overall Width @ Single Ground Reference Point (SgRP) Front	78.9	78.9
Overall Height	79.9	79.9
Suspension or Axle to Ground – Front	10.3	8.8
Suspension or Axle to Ground – Rear	8.4	8.4
Approach Angle	28.5	28.5
Ramp Breakover Angle	18.2	18.2
Departure Angle	30.9	30.9

Regular Cab 204.5"WB 120"CA DRW

	4x2	4x4
Wheelbase	204.6	204.6
Track Width – Front	76.0	76.0
Track Width – Rear	73.6	73.6
Overall Length	294.3	294.3
Overall Width @ Single Ground Reference Point (SgRP) Front	78.9	78.9
Overall Height	79.8	79.8
Suspension or Axle to Ground – Front	10.3	8.7
Suspension or Axle to Ground – Rear	8.4	8.4
Approach Angle	28.6	28.6
Ramp Breakover Angle	17.2	17.2
Departure Angle	30.8	30.8



Chassis Cab

SPECIFICATIONS

Crew Cab 173.4"WB 60"CA DRW

	4x2	4x4
Wheelbase	173.6	173.6
Track Width – Front	76.0	76.0
Track Width – Rear	73.6	73.6
Overall Length	263.2	263.2
Overall Width @ Single Ground Reference Point (SgRP) Front	79.1	79.1
Overall Height	80.6	80.6
Suspension or Axle to Ground – Front	10.3	8.7
Suspension or Axle to Ground – Rear	8.4	8.4
Approach Angle	28.5	28.5
Ramp Breakover Angle	20.4	20.4
Departure Angle	31.0	31.0

Crew Cab 197.4"WB 84"CA DRW

	4x2	4x4
Wheelbase	197.5	197.5
Track Width – Front	76.0	76.0
Track Width – Rear	73.6	73.6
Overall Length	287.2	287.2
Overall Width @ Single Ground Reference Point (SgRP) Front	79.1	79.1
Overall Height	80.5	80.5
Suspension or Axle to Ground – Front	10.3	8.7
Suspension or Axle to Ground – Rear	8.4	8.4
Approach Angle	28.6	28.6
Ramp Breakover Angle	17.8	17.8
Departure Angle	30.8	30.8



Chassis Cab

SPECIFICATIONS

ACCOMMODATIONS

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

BODY AND CHASSIS

<i>Model</i>	<i>2WD</i>	<i>4WD</i>
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

<i>Model</i>	<i>2WD</i>	<i>4WD</i>
Front	Five-link beam axle with coil springs	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

<i>Model</i>	<i>60"</i>	<i>84"</i>	<i>108"</i>	<i>120"</i>
Wheelbase (nominal) – in. (mm)	144.4	168.4	192.2	204.2
Turning Diameter – ft. (m) ^(a)	41.7	47.95	54.09	57.2



Chassis Cab

SPECIFICATIONS

CREW CAB®

<i>Model</i>	60"	84"
Wheelbase (nominal) – in. (mm)	173.3	197.1
Turning Diameter – ft. (m) ^(a)	57.2	49.2

BRAKES

Front		
Size and Type – in. (mm)	Rotors 15.4 x 1.5-in. disc with twin-piston pin-slider caliper and ABS	
Rear		
Size and Type – in. (mm)	Rotors 15.4 x 1.5-in. disc with twin-piston pin-slider caliper and ABS	
Power-assist Type	Hydro-boost (Diesel)	

• • •