

2012 Ram 1500 SPECIFICATIONS

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

GENERAL INFORMATION

Body Styles	Regular Cab, Quad Cab [®] , and Crew Cab
Assembly Plant	Regular Cab: Saltillo Truck Assembly, Saltillo, Mexico Quad Cab: Warren Truck Assembly Plant, Warren, Mich. Crew Cab: Warren Truck Assembly Plant, Warren, Mich.
EPA Vehicle Class	Standard Pickup
Introduction Date	2009 Model Year, all-new Regular, Quad and Crew Cab models introduced

ENGINE: 3.7-LITER SOHC 12-VALVE SMPI V-6

Availability	Standard — 2WD Regular and 2WD Quad Cab
Type and Description	90-degree V-6, liquid-cooled with balance shaft
Displacement	226 cu. in. (3701 cu. cm)
Bore x Stroke	3.66 in. x 3.57 in. (93.0 mm x 90.8 mm)
Valve System	Chain-driven SOHC, 12 valves, normally open check-in valve lash adjusters
Fuel Injection	Sequential, multi-port, electronic, returnless
Construction	Cast-iron block and bedplate, aluminum alloy heads, balance shaft
Compression Ratio	9.7:1
Power (SAE net)	215 hp (156 kW) @ 5,200 rpm
Torque (SAE net)	235 lb.-ft. (319 N•m) @ 4,000 rpm
Max. Engine Speed	6,000 rpm (electronically limited)
Fuel Requirement	Unleaded regular, 87 octane (R + M)/2
Oil Capacity	5.0 qt. (4.7L)
Coolant Capacity	11.3 qt (10.71L)
Emission Controls	Three-way catalytic converters and internal engine features ^(a)
Estimated EPA Fuel Economy mpg (City/Hwy)	14/20 — automatic

ENGINE: 4.7-LITER SOHC 16-VALVE SMPI V-8

Availability	Standard — all 4WD and Crew Cab
Type and Description	90-degree V-8, liquid-cooled
Displacement	287 cu. in. (4701 cu. cm)
Bore x Stroke	3.66 in. x 3.40 in. (93.0 mm x 86.5 mm)
Valve System	Chain-driven SOHC, 16 valves, normally open check-valve lash adjusters
Fuel Injection	Sequential, multi-port, electronic, returnless



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Construction	Cast-iron block, aluminum alloy heads
Compression Ratio	9.8:1
Power (SAE net)	310 hp (231 kW) @ 5,650 rpm
Torque (SAE net)	330 lb.-ft. (447 N•m) @ 3,950 rpm
Max. Engine Speed	6,000 rpm (electronically limited)
Fuel Requirement	Unleaded regular, 87 octane (R+M)/2, E85-compatible
Oil Capacity	6.0 qt. (5.7L)
Coolant Capacity	10.8 qt (10.23L)
Emission Controls	Three-way catalytic converters, heated oxygen sensors, electronic EGR and internal engine features ^{(a)(b)}
Estimated EPA Fuel Economy mpg (City/Hwy)	2WD: 14 /19 4WD: 13 /18

(a) Meets 50 state emissions – Bin4+, ULEVII+ (California Clean Vehicle).

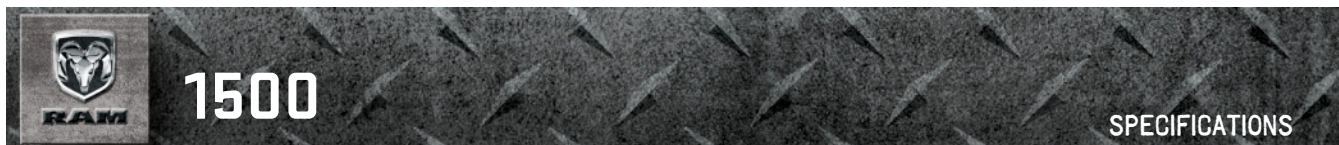
(b) Flexible fuel version available to fleet customers.

ENGINE: 5.7-LITER HEMI® 16-VALVE V-8

Availability	Standard — all Tradesman, Express, Big Horn, Lone Star, Sport, Laramie and Laramie Longhorn models; Optional—all other models
Type and Description	90-degree V-8, liquid-cooled
Displacement	345 cu. in. (5654 cu. cm)
Bore x Stroke	3.92 in. x 3.58 in. (99.5 mm x 90.9 mm)
Valve System	Variable cam timing, 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 net)	390 hp (291 kW) @ 5,600 rpm
Torque (SAE net)	407 lb.-ft. (548 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. (6.6L)
Coolant Capacity	14.0 qt. (13.33L)
Emission Controls	Three-way catalytic converters, heated oxygen sensors and electronic EGR and internal engine features ^(a)
Estimated EPA Fuel Economy mpg (City/Hwy) ^(b)	2WD: 14/20 4WD: 13/19

(a) Meets emission requirements as follows: Bin5 Federal – 39 state, ULEVII+ – (California Clean Vehicle), Bin4+ – Federal Fleet.

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



ELECTRICAL SYSTEM

Alternator	160-amp
Battery	Group 65, low-maintenance 700 CCA

TRANSMISSION: 42RLE — AUTOMATIC, MULTI-SPEED OVERDRIVE

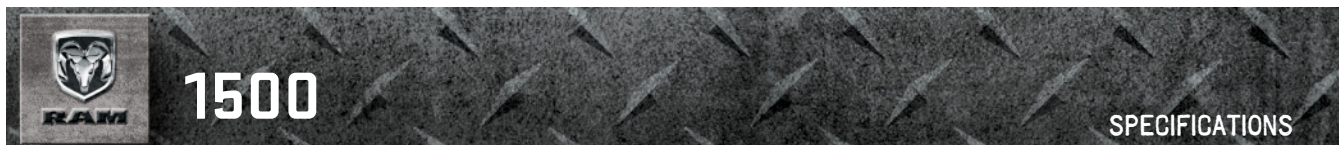
Availability	Standard — with all 3.7-liter engines
Description	Hydraulic control, electronically controlled governor, overdrive lockout and converter clutch
Gear Ratios	
1st	2.84
2nd	1.57
3rd	1.00
4th	0.69
Reverse	2.21
Overall Top-gear	2.45 with 3.55 axle and 2.70 with 3.92 axle

TRANSMISSION: 65RFE — AUTOMATIC SIX-SPEED

Availability	Standard with 4.7-liter and 5.7-liter engines
Description	Three planetary gearsets, one overrunning clutch, full electronic control, electronically controlled converter clutch
Gear Ratios	
1st	3.00
2nd	1.67
3rd	1.50
4th	1.00
5th	0.75
6th	0.67
Reverse	3.00
Overall Top-gear	2.15 with 3.21 axle; 2.38 with 3.55 axle; 2.63 with 3.92 axle; and 2.75 with 4.10 axle

TRANSFER CASE: PART-TIME

Availability	Standard
Shift Mechanism	Electric
Available Speeds	2-speed
Operating Modes	2WD High; 4WD High, Locked; Neutral; 4WD Low, Locked
Low-range Ratio	2.72
Center Differential Type	None



TRANSFER CASE: BW 44-44 ON-DEMAND

Availability	Optional
Shift Mechanism	Electric
Available Speeds	2-speed
Operating Modes	2WD High; 4WD Auto; 4WD High, Locked; Neutral; 4WD Low, Locked
Low-range Ratio	2.64
Center Differential Type	None

DIMENSIONS AND CAPACITIES

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

Regular Cab Pickup

Model – Tire Size	2WD –265/70R17		4WD –265/70R17	
Box Length	Short	Long	Short	Long
Wheelbase (nominal) – in. (mm)	120.5 (3061.2)	140.5 (3569.2)	120.5 (3061.2)	140.5 (3569.2)
Track, Front – in. (mm)	68 (1728.2)	68 (1728.2)	68.2 (1732.3)	68.2 (1732.3)
Track, Rear – in. (mm)	67.5 (1714.5)	67.5 (1714.5)	67.5 (1714.5)	67.5 (1714.5)
Overall Length – in. (mm)	209 (5308.6)	231.0 (5866.5)	209 (5308.6)	231.0 (5866.5)
Overall Width – in. (mm)	79.4 (2016.6)	79.4 (2016.6)	79.4 (2016.6)	79.4 (2016.6)
Overall Height – in. (mm)	74.6 (1894.2)	74.4 (1889.2)	75.2 (1910.4)	75.0 (1906.2)
Ground Clearance				
Front Axle – in. (mm)	9.7 (245.5)	9.6 (245.1)	9.0 (228.0)	9.0 (228.0)
Rear Axle – in. (mm)	9.0 (228.0)	9.0 (228.0)	8.6 (217.3)	8.6 (217.3)
Open Tailgate to Ground – in. (mm)	34.8 (883.4)	34.6 (878.3)	35.0 (889.6)	34.9 (885.3)
Pickup Body Height – in. (mm)	20.1 (511.1)	20.2 (513.0)	20.1 (511.1)	20.2 (513.0)
Approach Angle, degrees	18.6°	18.8°	20.5°	20.5°
Departure Angle, degrees	25.2°	24.1°	25.6°	24.4°
Ramp Breakover Angle, degrees	23.2°	21.4°	18.7°	16.6°
Fuel-Tank Capacity	26-gal. (98 L) (Standard)	32-gal. (121 L) (Standard)	26-gal. (98 L) (Standard)	32-gal. (121 L) (Standard)

Quad Cab® Pickup

Model – Tire Size	2WD –265/70R17	4WD –265/70R17
Wheelbase (nominal) – in. (mm)	140.5 (3569.2)	140.5 (3569.2)
Track, Front – in. (mm)	68 (1728.2)	68.2 (1732.3)
Track, Rear – in. (mm)	67.5 (1714.5)	67.5 (1714.5)
Overall Length – in. (mm)	229.0 (5816.5)	229.0 (5816.5)
Overall Width – in. (mm)	79.4 (2016.6)	79.4 (2016.6)
Overall Height – in. (mm)	75.1 (1906.3)	75.7 (1922.3)



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Ground Clearance

Front Axle – in. (mm)	9.6 (245.1)	9.0 (228.0)
Rear Axle – in. (mm)	9.0 (227.5)	8.6 (217.5)
Open Tailgate to Ground – in. (mm)	34.6 (878.3)	34.9 (885.3)
Pickup Body Height – in. (mm)	20.0 (508.6)	20.0 (508.6)
Approach Angle, degrees	18.8°	20.5°
Departure Angle, degrees	25.1°	25.4°
Ramp Breakover Angle, degrees	21.4°	16.6°
Fuel-Tank Capacity	26-gal. (98 L) (Standard) 32-gal. (121 L) (Optional)	26-gal. (98 L) (Standard) 32-gal. (121 L) (Optional)

Crew Cab Pickup

Model – Tire Size	2WD –265/70R17	4WD –265/70R17
Wheelbase (nominal) – in. (mm)	140.5 (3569.2)	140.5 (3569.2)
Track, Front – in. (mm)	68 (1728.2)	68.2 (1732.3)
Track, Rear – in. (mm)	67.5 (1714.5)	67.5 (1714.5)
Overall Length – in. (mm)	229.0 (5816.5)	229.0 (5816.5)
Overall Width – in. (mm)	79.4 (2016.6)	79.4 (2016.6)
Overall Height – in. (mm)	75.1 (1906.3)	75.7 (1922.3)

Ground Clearance

Front Axle – in. (mm)	9.6 (245.1)	9.0 (228.0)
Rear Axle – in. (mm)	9.0 (227.5)	8.6 (217.5)
Open Tailgate to Ground – in. (mm)	34.6 (878.3)	34.9 (885.3)
Pickup Body Height – in. (mm)	20.0 (508.6)	20.0 (508.6)
Approach Angle, degrees	18.8°	20.5°
Departure Angle, degrees	25.1°	25.4°
Ramp Breakover Angle, degrees	21.4°	16.6°
Fuel-Tank Capacity	26-gal. (98 L) (Standard) 32-gal. (121 L) (Optional)	26-gal. (98 L) (Standard) 32-gal. (121 L) (Optional)

Cargo Box

Nominal Box Size	5 ft 7 in (Crew)	6 ft 4 in (Regular or Quad®)	8 ft (Regular)
SAE Volume, cu. ft. (cu m)	50.3 (1.4)	57.5 (1.6)	74.7 (2.1)
Length at Floor, Tailgate Closed – in. (mm)	67.4 (1712.4)	76.3 (1938.5)	98.3 (2496.5)
Cargo Width – in. (mm)	66.4 (1686.9)	66.4 (1686.9)	66.4 (1686.9)
Distance Between Wheelhouses – in. (mm)	51 (1295.4)	51 (1295.4)	51 (1295.4)
Depth – in. (mm)	20.0 (508)	20.1 (510.5)	20.2 (513.2)
Tailgate Opening Width in. – (mm)	60.4 (1535.3)	60.4 (1535.3)	60.4 (1535.3)



ACCOMMODATIONS

Model	Regular Cab	Quad Cab®	Crew Cab
Seating Capacity, F/R	3/0 or 2/0	3/3 or 2/3	3/3 or 2/3
Front			
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°
Rear			
Head Room – in. (mm)	N/A	39.7 (1007.3)	39.9 (1013.5)
Legroom – in. (mm)	N/A	34.7 (881.4)	40.3 (1023.6)
Shoulder Room – in. (mm)	N/A	65.7 (1670)	65.7 (1670)
Hip Room – in. (mm)	N/A	62.9 (1598.3)	63.2 (1605.2)
Interior Volume			
Front – cu. ft. (cu m)	63.0 (1.8)	64.2 (1.8)	64.2 (1.8)
Rear – cu. ft. (cu m)	N/A	52.4 (1.5)	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

SUSPENSION

Model	2WD	4WD
Front	Upper and lower “A” arms, coil springs, twin-tube shock absorbers, stabilizer bar	Upper and aluminum lower “A” arms, coil over twin-tube shock absorbers, stabilizer bar
Rear	Five-link with track bar, coil springs, stabilizer bar, twin-tube shock absorbers, solid axle	Five-link with track bar, coil springs, stabilizer bar, twin-tube shock absorbers, solid axle



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STEERING

Regular Cab Pickup

Model	2WD	2WD	4WD	4WD
Box Length	Short Box	Long Box	Short Box	Long Box
Wheelbase (nominal) – in. (mm)	120.5 (3061)	140.5 (3569.2)	140.5 (3569.2)	140.5 (3569.2)
Overall Steering Ratio	19.1:1	17.9:1	19.1:1	17.9:1
Steering Wheel Turns (lock-to-lock)	3.5	3.3	3.5	3.3
Turning Diameter – 17-in. Tire -ft. (m) ^(a)	39.5 (12.0)	45.1 (13.7)	39.8 (12.1)	45.4 (13.8)
Turning Diameter – 20-in. Tire - ft. (m) ^(a)	39.3 (12.0)	44.9 (13.7)	39.8 (12.1)	45.5 (13.9)
Turning Diameter – 17-in. Outdoorsman Tire – ft. (m) ^(a)	N/A	N/A	39.4 (12.0)	45.0 (13.7)

Quad Cab® Pickup

Model	2WD	4WD
Wheelbase (nominal) – in. (mm)	140.5 (3569)	140.5 (3569)
Overall Ratio	17.9:1	17.9:1
Steering Wheel Turns (lock-to-lock)	3.3	3.3
Turning Diameter – 17-in. Tire – ft. (m) ^(a)	45.1 (13.7)	45.4 (13.8)
Turning Diameter – 20-in. Tire – ft. (m) ^(a)	44.9 (13.7)	45.5 (13.9)
Turning Diameter – Outdoorsman – ft. (m) ^(a)	44.8 (13.7)	45.0 (13.7)

Crew Cab Pickup

Model	2WD	4WD
Wheelbase (nominal) – in. (mm)	140.5 (3569)	140.5 (3569)
Overall Ratio	17.9:1	17.9:1
Steering Wheel Turns (lock-to-lock)	3.3	3.3
Turning Diameter – 17-in. Tire – ft. (m) ^(a)	45.1 (13.7)	45.4 (13.8)
Turning Diameter – 20-in. Tire – ft. (m) ^(a)	44.9 (13.7)	45.5 (13.9)
Turning Diameter – Outdoorsman – ft. (m) ^(a)	44.8 (13.7)	45.0 (13.7)

(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)	13.2 x 1.1 (336 x 28) vented disc with 2.13 (54) two-piston pin-slider caliper and ABS
Swept Area	292 sq. in. (1884 sq. cm)

Rear

Size and Type – in. (mm)	13.8 x 0.87 (352 x 22) disc with 2.13 (54) single-piston pin-slider caliper and ABS
Swept Area	274 sq. in. (1768 sq. cm)
Power-assist Type	Dual-rate, tandem diaphragm vacuum

MAXIMUM PAYLOAD CAPACITIES*

<i>Regular Cab Short Box</i>	<i>Engine</i>	<i>Transmission</i>	<i>4WD / 2WD</i>	<i>GVW (lbs)</i>	<i>Payload (lbs)</i>
	3.7L	Automatic	4x2	6025	1450
	4.7L	Automatic	4x2	6025	1340
	4.7L	Automatic	4x4	6350	1490
	5.7L	Automatic	4x2	6350	1580
	5.7L	Automatic	4x4	6350	1440
<i>Regular Cab Long Box</i>	<i>Engine</i>	<i>Transmission</i>	<i>4WD / 2WD</i>	<i>GVW (lbs)</i>	<i>Payload (lbs)</i>
	3.7L	Automatic	4x2	6600	1860
	4.7L	Automatic	4x2	6600	1730
	4.7L	Automatic	4x4	6600	1560
	5.7L	Automatic	4x2	6600	1670
	5.7L	Automatic	4x4	6600	1530
<i>Quad Cab® Short Box</i>	<i>Engine</i>	<i>Transmission</i>	<i>4WD / 2WD</i>	<i>GVW (lbs)</i>	<i>Payload (lbs)</i>
	3.7L	Automatic	4x2	6700	1810
	4.7L	Automatic	4x2	6700	1670
	4.7L	Automatic	4x4	6700	1610
	5.7L	Automatic	4x2	6700	1620
	5.7L	Automatic	4x4	6700	1610
<i>Crew Cab Short Box</i>	<i>Engine</i>	<i>Transmission</i>	<i>4WD / 2WD</i>	<i>GVW (lbs)</i>	<i>Payload (lbs)</i>
	4.7L	Automatic	4x2	6800	1700
	4.7L	Automatic	4x4	6800	1530
	5.7L	Automatic	4x2	6800	1670
	5.7L	Automatic	4x4	6800	1500

* Maximum values shown, payload will vary depending on vehicle trim level and option content.



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ESTIMATED TRAILER TOW CAPACITIES***3.7L Regular Cab – Short Box (1L61) – ST****3.7L Regular Cab – Long Box (1L62) – ST****3.7L Quad Cab® – Short Box (1L41) – ST**

Engine	4WD 2WD	Trans	Axle	Trim	GCW (lbs)	Quad Cab® Short Box Max Trailer (lbs)	Reg Cab Short Box Max Trailer (lbs)	Reg Cab Long Box Max Trailer (lbs)
3.7L	4x2	Auto (4-Spd)	3.92	ST	8,500	3,450	3,750	3,600
			3.55	ST	8,500	3,450	3,750	3,600

* Maximum towing capacities shown with properly equipped vehicle and a 150-lb driver. Options, equipment, cargo and passengers must be deducted (see Ram Trailer-tow Guide for specific details).

4.7L Regular Cab – Short Box (1L61, 1H61, 6L61, 6H61) – ST, SLT, Outdoorsman**4.7L Regular Cab – Long Box (1L62, 1H62, 6L62, 6H62) – ST, SLT, Outdoorsman**

Engine	4WD 2WD	Trans	Axle	Trim	GCW (lbs)	Reg Cab Short Box Max Trailer (lbs)	Reg Cab Long Box Max Trailer (lbs)
4.7L	4x2	Auto (5-Spd)	3.92	ST, SLT, Outdoorsman	12,500	7,600	7,450
			3.55	ST, SLT	12,500	7,600	7,450
	4x4	Auto (5-Spd)	3.92	ST, SLT, Outdoorsman	12,500	7,450	7,300
			3.55	ST, SLT	12,500	7,450	7,300

* Maximum towing capacities shown with properly equipped vehicle and a 150-lb driver. Options, equipment, cargo and passengers must be deducted (see Ram Trailer-tow Guide for specific details).

4.7L Quad Cab® – Short Box (1L41, 1H41, 6L41, 6H41) – ST, SLT, Outdoorsman**4.7L Crew Cab – Short Box (1L98, 1H98, 6L98, 6H98) – ST, SLT, Outdoorsman**

Engine	4WD 2WD	Trans	Axle	Trim	GCW (lbs)	Crew Cab Short Box Max Trailer (lbs)	Quad Cab® Short Box Max Trailer (lbs)
4.7L	4x2	Auto (5-Spd)	3.92	ST, SLT, Outdoorsman	12,500	7,250	7,300
			3.55	ST, SLT	12,500	7,250	7,300
	4x4	Auto (5-Spd)	3.92	ST, SLT, Outdoorsman	12,500	7,050	7,150
			3.55	ST, SLT	12,500	7,050	7,150

* Maximum towing capacities shown with properly equipped vehicle and a 150-lb driver. Options, equipment, cargo and passengers must be deducted (see Ram Trailer-tow Guide for specific details).



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5.7L Regular Cab – Short Box (1L61, 1H61, 6L61, 6H61) – ST, SLT, Outdoorsman, Sport, R/T, Laramie

5.7L Regular Cab – Long Box (1L62, 1H62, 6L62, 6H62) – ST, SLT, Sport

Engine	4WD 2WD	Trans	Axle	Trim	Reg Cab Short Box GCW (lbs)	Reg Cab Long Box GCW (lbs)	Reg Cab Short Box Max Trailer (lbs)	Reg Cab Long Box Max Trailer (lbs)
5.7L	4x2	Auto (5-Spd)	4.10	R/T	10,000	N/A	5,000	N/A
			3.92	Express, Tradesman, ST, SLT, Outdoorsman, Sport	14,000	15,500	9,100	10,400
			3.55	ST, SLT, Sport	14,000	14,000	9,100	8,900
			3.21	ST, SLT	12,000	12,000	7,100	6,900
	4x4	Auto (5-Spd)	3.92	Express, Tradesman, SLT, Outdoorsman, Sport, Laramie	14,000	15,500	8,900	10,450
			3.55	Express, Tradesman, ST, SLT, Sport	14,000	14,000	8,900	8,750

* Maximum towing capacities shown with properly equipped vehicle and a 150-lb driver. Options, equipment, cargo and passengers must be deducted (see Ram Trailer-tow Guide for specific details).

5.7L Quad Cab[®] – Short Box 5.7L Crew Cab – Short Box

Engine	4WD 2WD	Trans	Axle	Trim	Crew Cab Short Box GCW (lbs)	Quad Cab [®] Short Box GCW (lbs)	Crew Cab Short Box Max Trailer (lbs)	Quad Cab [®] Short Box Max Trailer (lbs)
5.7L	4x2	Auto (5-Spd)	3.92	ST, SLT, Outdoorsman, Sport, Big Horn, Lone Star, Laramie	15,500	15,500	10,200	10,250
			3.55	ST, SLT, Outdoorsman, Sport, Big Horn, Lone Star, Laramie	14,000	14,000	8,700	8,700
			3.21	ST, SLT	12,000	12,000	6,700	6,750
	4x4	Auto (5-Spd)	3.92	ST, SLT, Outdoorsman, Sport, Big Horn, Lone Star, Laramie	15,500	15,500	10,000	10,050
			3.55	ST, SLT, Sport, Laramie	14,000	14,000	8,500	8,550

* Maximum towing capacities shown with properly equipped vehicle and a 150-lb driver. Options, equipment, cargo and passengers must be deducted (see Ram Trailer-tow Guide for specific details).

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