### **SPECIFICATIONS**

# 2019 Ram 3500, 4500 & 5500 Chassis Cab **SPECIFICATIONS**

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, 2WD, 4WD
Assembly Plant	Saltillo Truck Assembly Plant, Coahuila, Mexico

#### **BODY/CHASSIS**

Model	2WD	4WD
Layout	Longitudinal, front engine	Longitudinal, front engine, transfer case
Construction	Ladder-type frame, steel cab	Ladder-type frame, steel cab

### **ENGINE: 6.4-LITER HEMI® V-8 (SIX-SPEED)**

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	370 hp (306 Kw) @ 5,600 rpm
Torque	429 lbft. (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 (15.75 liters)

## **SPECIFICATIONS**

Emission Control	Three-way catalytic converters, heated oxygen sensors, cooled
	electronic exhaust-gas recirculation (EGR) and individual cylinder fuel control
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### **ENGINE: 6.4-LITER HEMI® V-8 (EIGHT-SPEED)**

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 hp (306 Kw) @ 5,600 rpm
Torque	429 lbft. (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 (15.75 liters)
Emission Control	Three-way catalytic converters, heated oxygen sensors, cooled electronic exhaust-gas recirculation (EGR) and individual cylinder fuel control

#### **ENGINE: 6.7-LITER CUMMINS TURBO DIESEL I-6**

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, hydraulic lifters
Fuel Injection	Electronic high-pressure common rail
Construction	Compacted graphite iron (CGI) block cast-iron head

### **SPECIFICATIONS**

Compression Ratio	16.2:1
Power	360 hp (268 Kw) @ 2,800 rpm (68RFE automatic transmission)
Torque	800 lbft. (1,084 N•m) @ 1,800 rpm
Maximum High-Idle Engine Speed	3,200 rpm
Fuel Requirement	Ultra-low sulfur diesel
Oil Capacity	12.0 quarts (11.3 liters) with filter
Coolant Capacity	23.8 quarts (22.50 liters)
Emission Controls	Selective catalytic reduction (SCR)

#### TRANSMISSION: AISIN 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	2.00
3rd	1.34
4th	1.00
5th	0.77
6th	0.63
Reverse	3.54
Axle Ratios	3.73 (SRW and DRW), 4.10 (DRW only)
PTO Capability	Left or right

### TRANSMISSION: ZF 8HP75 — AUTOMATIC EIGHT-SPEED

Availability	6.4-liter HEMI V-8
Description	Adaptive electronic control, automatic or Electronic Range Select (ERS) manual control. Five clutch-pack design with only two open clutches in any gear. Torque converter lock with turbine torsional damper for low lock-up speeds in 1st through 8th gear



## **SPECIFICATIONS**

Gear Ratios	
1st	4.71
2nd	3.14
3rd	2.10
4th	1.67
5th	1.29
6th	1.00
7th	0.84
8th	0.67
Reverse	3.30
Axle Gear Ratios	3.73, 4.10

#### TRANSMISSION: AISIN AS66RC — AUTOMATIC SIX-SPEED

Availability	6.4-liter HEMI V-8
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 (SRW and DRW), 4.10 (DRW)
PTO Capability	Left or right

### **SPECIFICATIONS**

#### **TRANSFER CASE: BW 44-46, BW 44-47**

Availability	Optional on 6.7-liter diesel and 6.4-liter HEMI V-8
Туре	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

#### TRANSFER CASE: BW 44-48, 44-49

Availability	6.7-liter diesel high output
Туре	44-48 part-time with electric shift, 44-49 part-time manual shift
Operating Modes	2WD; 4WD High; Neutral; 4WD Low
Low-Range Ratio	2.64
Center Differential	None

#### **AXLES**

Front (4x4)	AAM 10.5-in. beam front axle with center disconnect
Rear	AAM 12.0-in. beam rear axle

#### **ELECTRICAL SYSTEM**

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

## **SPECIFICATIONS**

### SUSPENSION 3500 (INCLUDES 10,000 GVWR MODEL)

Model	2WD	4WD
Front	Three-link with track bar, coil springs, stabilizer bar, solid axle	Three-link with track bar, coil springs, stabilizer bar, solid axle
Rear	Two-stage longitudinal leaf solid axle	Two-stage longitudinal leaf solid axle

#### **SUSPENSION 4500/5500**

Model	2WD	4WD
Front	Five-link with track bar, coil springs, stabilizer bar, solid axle	Five-link with track bar, coil springs, stabilizer bar, solid axle
Rear	Two-stage longitudinal leaf solid axle	Two-stage longitudinal leaf solid axle

### **BRAKES 3500**

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

#### BRAKES 4500/5500

Front	
Size and Type	15.35 x 1.54 (390 x 39) disc with twin-piston pin-slider caliper and ABS
Rear	
Size and Type	15.35 x 1.54 (390 x 39) disc with twin-piston pin-slider caliper and ABS
Power-Assist Type	Hydro-boost



## **SPECIFICATIONS**

#### **STEERING**

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3500 Regular Cab 60 CA SRW 275/70R18	4x2	4x4
DIMENSIONS AND CAPACITIES		
Wheelbase (nominal)	143.3 (3,639)	143.3 (3,639)
Track Width – Front	67.6 (1,716)	67.6 (1,716)
Track Width – Rear	67.0 (1,703)	67.0 (1,703)
Overall Length	235.3 (5,977)	235.3 (5,977)
Overall Width	82.6 (2,099)	82.6 (2,099)
Overall Height	80.9 (2,055)	80.9 (2,055)
Axle to Ground – Front	9.4 (240)	9.4 (240)
Axle to Ground – Rear	8.7 (221)	8.7 (221)
Rear of Frame to Ground	36.3 (922)	36.3 (922)
Approach Angle (degrees)	22.2	22.2
Departure Angle (degrees)	27.5	27.5
Ramp Breakover Angle w/o Skid Plate (degrees)	21.8	21.8
Ramp Breakover Angle w/ Skid Plate (degrees)	N/A	21.8
Ground Clearance w/o Skid Plate	13.7 (347)	13.7 (347)
Ground Clearance w/ Skid Plate	N/A	13.7 (347)

### **ACCOMMODATIONS**

Seating Capacity, F/R	3/–	3/–
Front		
Headroom	39.8 (1.011)	39.8 (1.011)
Legroom	40.9 (1,040)	40.9 (1,040)
Shoulder Room	65.9 (1,675)	65.9 (1,675)
Hip Room	62.9 (1,598)	62.9 (1,598)



## **SPECIFICATIONS**

3500 Regular Cab 60 CA SRW 275/70R18	4x2	4x4
ACCOMMODATIONS (CONTINUED)		
Seat Travel	9.1 (230)	9.1 (230)
Recliner Range (degrees)	59.0	59.0
Interior Volume		
Front – cu. ft. (cu. m)	62.2 (1.8)	62.2 (1.8)
3500 Crew Cab 60 CA SRW 275/70R18	4x2	4x4
DIMENSIONS AND CAPACITIES		
Wheelbase (nominal)	172.2 (4,373)	172.2 (4,373)
Track Width – Front	67.6 (1,716)	67.6 (1,716)
Track Width – Rear	67.0 (1,703)	67.0 (1,703)
Overall Length	264.2 (6,710)	264.2 (6,710)
Overall Width	82.6 (2,099)	82.6 (2,099)
Overall Height	80.6 (2,046)	80.6 (2,046)
Axle to Ground – Front	9.4 (238)	9.4 (238)
Axle to Ground – Rear	8.7 (220)	8.7 (220)
Rear of Frame to Ground	35.7 (906)	35.7 (906)
Approach Angle (degrees)	22.5	22.5
Departure Angle (degrees)	26.7	26.7
Ramp Breakover Angle w/o Skid Plate (degrees)	19.6	19.6
Ramp Breakover Angle w/ Skid Plate (degrees)	N/A	19.6
Ground Clearance w/o Skid Plate	13.3 (339)	13.3 (339)
Ground Clearance w/ Skid Plate	N/A	13.3 (339)
ACCOMMODATIONS		
ACCOMMODATIONS  Section Conscitu F/P	0/0	2/2

3/3

Seating Capacity, F/R

3/3



## **SPECIFICATIONS**

3500 Crew Cab 60 CA SRW 275/70R18	4x2	4x4
ACCOMMODATIONS (CONTINUED)		
Front		
Headroom	40.9 (1,038)	40.9 (1,038)
Legroom	40.9 (1,040)	40.9 (1,040)
Shoulder Room	65.9 (1,675)	65.9 (1,675)
Hip Room	62.9 (1,598)	62.9 (1,598)
Seat Travel	9.1 (230)	9.1 (230)
Recliner Range (degrees)	59.0	59.0
Rear		
Headroom	39.8 (1,010)	39.8 (1,010)
Legroom	40.2 (1,022)	40.2 (1,022)
Shoulder Room	65.6 (1,666)	65.6 (1,666)
Hip Room	62.7 (1,593)	62.7 (1,593)
Interior Volume		
Front – cu. ft. (cu. m)	63.9 (1.8)	63.9 (1.8)
Rear – cu. ft. (cu. m)	60.7 (1.7)	60.7 (1.7)
3500 Regular Cab 60 CA DRW 235/80R17	4x2	4×4
DIMENSIONS AND CAPACITIES		
Wheelbase (nominal)	143.5 (3,645)	143.5 (3,645)
Track Width – Front	69.6 (1,768)	69.6 (1,768)
Track Width – Rear	71.9 (1,825)	71.9 (1,825)
Overall Length	235.3 (5,977)	235.3 (5,977)
Overall Width	92.2 (2,341)	92.2 (2,341)
Overall Height	80.2 (2,036)	80.2 (2,036)
Axle to Ground – Front	8.6 (219)	8.6 (219)

8.0 (208)

Axle to Ground - Rear

8.0 (208)



## **SPECIFICATIONS**

4x2	4x4
35.9 (911)	35.9 (911)
20.4	20.4
26.9	26.9
20.7	20.7
N/A	20.7
12.9 (328)	12.9 (328)
N/A	12.9 (328)
3/–	3/–
39.8 (1,011)	39.8 (1,011)
40.9 (1,040)	40.9 (1,040)
65.9 (1,675)	65.9 (1,675)
62.9 (1,598)	62.9 (1,598)
9.1 (230)	9.1 (230)
59.0	59.0
62.2 (1.8)	62.2 (1.8)
4x2	4x4
167.3 (4,249)	167.3 (4,249)
69.6 (1,768)	69.6 (1,768)
71.9 (1,825)	71.9 (1,825)
259.3 (6,586)	259.3 (6,586)
	35.9 (911) 20.4 26.9 20.7 N/A 12.9 (328) N/A  3/- 39.8 (1,011) 40.9 (1,040) 65.9 (1,675) 62.9 (1,598) 9.1 (230) 59.0  4x2  167.3 (4,249) 69.6 (1,768) 71.9 (1,825)



## **SPECIFICATIONS**

2.2 (2,341)	92.2 (2,341)
	92.2 (2.341)
0.0.(2.020)	J (_,J : 1)
9.9 (2,029)	79.9 (2,029)
3.7 (222)	8.7 (222)
3.0 (203)	8.0 (203)
4.9 (886)	34.9 (886)
21.0	21.0
25.7	25.7
17.1	18.1
N/A	18.1
2.7 (322)	12.7 (322)
N/A	12.7 (322)
3/–	3/–
9.8 (1,011)	39.8 (1,011)
0.9 (1,040)	40.9 (1,040)
5.9 (1,675)	65.9 (1,675)
2.9 (1,598)	62.9 (1,598)
9.1 (230)	9.1 (230)
59.0	59.0
52.2 (1.8)	62.2 (1.8)
	25.7  17.1  N/A  2.7 (322)  N/A  3/-  2.8 (1,011)  2.9 (1,040)  5.9 (1,675)  2.9 (1,598)  9.1 (230)



## **SPECIFICATIONS**

3500 Crew Cab 60 CA DRW 235/80R17	4x2	4x4
DIMENSIONS AND CAPACITIES		
Wheelbase (nominal)	172.4 (4,379)	172.4 (4,379)
Track Width – Front	69.6 (1,768)	69.6 (1,768)
Track Width – Rear	71.9 (1,825)	71.9 (1,825)
Overall Length	264.2 (6,710)	264.2 (6,710)
Overall Width	92.2 (2,341)	92.2 (2,341)
Overall Height	79.6 (2,022)	79.6 (2,022)
Axle to Ground – Front	8.5 (217)	8.5 (217)
Axle to Ground – Rear	8.0 (202)	8.0 (202)
Rear of Frame to Ground	34.3 (872)	34.3 (872)
Approach Angle (degrees)	21.0	21.0
Departure Angle (degrees)	25.1	25.1
Ramp Breakover Angle w/o Skid Plate (degrees)	18.0	18.0
Ramp Breakover Angle w/ Skid Plate (degrees)	N/A	18.0
Ground Clearance w/o Skid Plate	12.4 (316)	12.4 (316)
Ground Clearance w/ Skid Plate	N/A	12.4 (316)
ACCOMMODATIONS		
Seating Capacity, F/R	3/3	3/3
Front		
Headroom	40.9 (1,038)	40.9 (1,038)
Legroom	40.9 (1,040)	40.9 (1,040)
Shoulder Room	65.9 (1,675)	65.9 (1,675)
Hip Room	62.9 (1,598)	62.9 (1,598)
Seat Travel	9.1 (230)	9.1 (230)
Recliner Range (degrees)	59.0	59.0



### **SPECIFICATIONS**

3500 Crew Cab 60 CA DRW 235/80R17	4x2	4x4
ACCOMMODATIONS (CONTINUED)		
Rear		
Headroom	39.8 (1,010)	39.8 (1,010)
Legroom	40.2 (1,022)	40.2 (1,022)
Shoulder Room	65.6 (1,666)	65.6 (1,666)
Hip Room	62.7 (1,593)	62.7 (1,593)
Interior Volume		
Front – cu. ft. (cu. m)	63.9 (1.8)	63.9 (1.8)
Rear – cu. ft. (cu. m)	60.7 (1.7)	60.7 (1.7)
4500/5500 Regular Cab 4x2 & 4x4 225/70R19.5	60 CA	84 CA
DIMENSIONS AND CAPACITIES		
Wheelbase (nominal)	144.6 (3,674)	168.7 (4,284
Track Width – Front	77.1 (1,958)	77.1 (1,958)
Track Width – Rear	73.6 (1,870)	73.6 (1,870)
Overall Length	236.3 (6,001)	260.2 (6,610
Overall Width	93.2 (2,368)	93.2 (2,368)
Overall Height	81.7 (2,075)	81.5 (2,071)

8.7 (221)

8.2 (208)

36.4 (925)

25.4

27.7

22.6

22.6

13.7 (348)

13.7 (348)

Axle to Ground - Front

Axle to Ground - Rear

Rear of Frame to Ground

Approach Angle (degrees)

Departure Angle (degrees)

Ground Clearance w/o Skid Plate

Ground Clearance w/ Skid Plate

Ramp Breakover Angle w/o Skid Plate (degrees)

Ramp Breakover Angle w/ Skid Plate (degrees)

8.7 (221)

8.1 (206)

36.2 (920)

25.7

27.5

20.8

20.8

13.5 (344)

13.5 (344)



### **SPECIFICATIONS**

4500/5500 Regular Cab 4x2 & 4x4 225/70R19.5	60 CA	84 CA
ACCOMMODATIONS		
Seating Capacity, F/R	3/–	3/-
Front		
Headroom	39.8 (1,011)	39.8 (1,011)
Legroom	40.9 (1,040)	40.9 (1,040)
Shoulder Room	65.9 (1,675)	65.9 (1,675)
Hip Room	62.9 (1,598)	62.9 (1,598)
Seat Travel	9.1 (230)	9.1 (230)
Recliner Range (degrees)	59.0	59.0
Interior Volume		
Front – cu. ft. (cu. m)	62.2 (1.8)	62.2 (1.8)
4500/5500 Regular Cab 4x2 & 4x4 225/70R19.5	108 CA	120 CA
DIMENSIONS AND CAPACITIES		
Wheelbase (nominal)	192.6 (4,893)	204.4 (5,191)
Track Width – Front	77.1 (1,958)	77.1 (1,958)
Track Width – Rear	73.6 (1,870)	73.6 (1,870)
Overall Length	284.3 (7,221)	296.3 (7,525)
Overall Width	93.2 (2,368)	93.2 (2,368)
Overall Height	81.5 (2,071)	81.4 (2,068)
Axle to Ground – Front	8.7 (221)	8.7 (221)
Axle to Ground – Rear	8.1 (206)	8.1 (206)
Poor of Frame to Cround	36.9 (936)	36.6 (930)
Real of Frame to Ground	` '	
Rear of Frame to Ground  Approach Angle (degrees)	25.7	25.8

20.2

20.2

Ramp Breakover Angle w/o Skid Plate (degrees)

Ramp Breakover Angle w/ Skid Plate (degrees)

19.6

19.6

### **SPECIFICATIONS**

4500/5500 Regular Cab 4x2 & 4x4 225/70R19.5	108 CA	120 CA
DIMENSIONS AND CAPACITIES (CONTINUED)		
Ground Clearance w/o Skid Plate	13.6 (345)	13.5 (342)
Ground Clearance w/ Skid Plate	13.6 (345)	13.5 (342)
ACCOMMODATIONS		
Seating Capacity, F/R	3/–	3/–
Front		
Headroom	39.8 (1,011)	39.8 (1,011)
Legroom	40.9 (1,040)	40.9 (1,040)
Shoulder Room	65.9 (1,675)	65.9 (1,675)
Hip Room	62.9 (1,598)	62.9 (1,598)
Seat Travel	9.1 (230)	9.1 (230)
Recliner Range (degrees)	59.0	59.0
Interior Volume		
Front – cu. ft. (cu. m)	62.2 (1.8)	62.2 (1.8)
4500/5500 Crew Cab 4x2 & 4x4 225/70R19.5	60 CA	84 CA
DIMENSIONS AND CAPACITIES		
Wheelbase (nominal)	173.5 (4,407)	197.5 (5,017)
Track Width – Front	77.1 (1,958)	77.1 (1,958)
Track Width – Rear	73.6 (1,870)	73.6 (1,870)
Overall Length	265.2 (6,735)	289.2 (7,345)
Overall Width	93.2 (2,368)	93.2 (2,368)

81.4 (2,068)

8.7 (220)

8.1 (206)

35.5 (901)

Overall Height

Axle to Ground - Front

Axle to Ground - Rear

Rear of Frame to Ground

81.4 (2,068)

8.6 (219)

8.1 (206)

36.7 (932)



## **SPECIFICATIONS**

4500/5500 Crew Cab 4x2 & 4x4 225/70R19.5	60 CA	84 CA
DIMENSIONS AND CAPACITIES (CONTINUED)		
Approach Angle (degrees)	25.4	25.5
Departure Angle (degrees)	27.3	28.0
Ramp Breakover Angle w/o Skid Plate (degrees)	20.4	19.9
Ramp Breakover Angle w/ Skid Plate (degrees)	20.4	19.9
Ground Clearance w/o Skid Plate	13.5 (342)	13.5 (342)
Ground Clearance w/ Skid Plate	13.5 (342)	13.5 (342)
ACCOMMODATIONS		
Seating Capacity, F/R	3/3	3/3
Front		
Headroom	40.9 (1,038)	40.9 (1,038)
Legroom	40.9 (1,040)	40.9 (1,040)
Shoulder Room	65.9 (1,675)	65.9 (1,675)
Hip Room	62.9 (1,598)	62.9 (1,598)
Seat Travel	9.1 (230)	9.1 (230)
Recliner Range (degrees)	59.0	59.0
Rear		
Headroom	39.8 (1,010)	39.8 (1,010)
Legroom	40.2 (1,022)	40.2 (1,022)
Shoulder Room	65.6 (1,666)	65.6 (1,666)
Hip Room	62.7 (1,593)	62.7 (1,593)
Interior Volume		
Front – cu. ft. (cu. m)	63.9 (1.8)	63.9 (1.8)
Rear – cu. ft. (cu. m)	60.7 (1.7)	60.7 (1.7)

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