

## FCA Canada: 2021 Ram 2500 & 3500 Heavy Duty SPECIFICATIONS

*Specifications are based on the latest product information available at the time of publication.*

*All dimensions are in millimetres (inches) 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: 4x2, 4x4
Assembly Plant	Saltillo Truck Assembly Plant, Coahuila, Mexico
EnerGuide Vehicle Class	Standard Pickup

### BODY/CHASSIS

Model	4x2	4x4
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: 6.4-LITRE HEMI® V-8

Type and Description	90-degree gasoline V-8 with variable cam timing
Displacement	6,417 cu. cm (392 cu. in.)
Bore X Stroke	103.9 X 94.6 (4.09 X 3.72)
Valve System	Pushrod-operated overhead valves, 16 valves, 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 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 lb.-ft. (582 N•M) at 4,000 RPM
Maximum Engine Speed	5,800 RPM limited

Fuel Requirement	Unleaded regular, 87 octane
Oil Capacity	6.6 litres (7.0 quarts)
Coolant Capacity	15.75 litres (16.6 quarts)
Emission Control	Three-way catalytic converters, heated oxygen sensors, cooled electronic exhaust-gas recirculation (EGR) and individual cylinder fuel control

#### **ENGINE: 6.7-LITRE CUMMINS TURBO DIESEL I-6 (2500/3500 Standard Output)**

Type and Description	Inline six cylinder, turbocharged, intercooled diesel
Displacement	6,690 cu. cm (408 cu. in.)
Bore X Stroke	107 X 124 (4.21 X 4.88)
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
Compression Ratio	19.0:1
Power	370 hp (276 Kw) @ 2,800 RPM (68RFE automatic transmission)
Torque	850 lb.-ft. (1,084 N•M) @ 1,700 RPM
Maximum High-Idle Engine Speed	3,200 RPM
Fuel Requirement	Ultra-low sulfur diesel
Oil Capacity	11.3 litres (12.0 quarts) with filter
Coolant Capacity	22.50 litres (23.8 quarts)
Emission Controls	Selective catalytic reduction (SCR)

#### **ENGINE: 6.7-LITRE CUMMINS TURBO DIESEL I-6 (3500 High Output)**

Type And Description	Inline six cylinder, turbocharged, intercooled diesel
Displacement	6,690 cu. cm (408 cu. in.)
Bore X Stroke	107 X 124 (4.21 X 4.88)
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
Compression Ratio	16.2:1
Power	400 hp (276 Kw) @ 2,800 RPM (Aisin automatic transmission)
Torque	1,000 lb.-ft. (1,084 N•M) @ 1,356 RPM
Maximum High-Idle Engine Speed	3,200 RPM
Fuel Requirement	Ultra-low sulfur diesel
Oil Capacity	11.3 litres (12.0 quarts) with filter
Coolant Capacity	22.50 litres (23.8 quarts)
Emission Controls	Selective catalytic reduction (SCR)

#### **TRANSMISSION: AISIN AS69RC — AUTOMATIC SIX-SPEED (3500 High Output)**

Availability	6.7-litre diesel high output
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	3.73 (SRW and DRW), 4.10 (DRW only)

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

Availability	6.4-litre 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

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: 68RFE — AUTOMATIC SIX-SPEED**

Availability	6.7-litre diesel (standard output 2500 and 3500)
Description	Three planetary gearsets, one overrunning clutch, full electronic control, and 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	3.73 (SRW and DRW), 4.10 (DRW)

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

Availability	Optional on 6.7-litre diesel and 6.4-litre HEMI V-8
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
Centre Differential	None

**TRANSFER CASE: BW 44-48**

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

**AXLES**

Front (4x4)	AAM 235 mm (9.25 in.) beam front axle with centre disconnect (locking differentials on Power Wagon)
Rear	AAM 292 mm (11.5 in.) beam rear axle (2500 and 3500 limited-slip and locking differentials on Power Wagon)
	AAM 305 mm (12.0 in.) beam rear axle (3500 Max Tow)

**ELECTRICAL SYSTEM**

Alternator	
Rating	180-amp included with 6.4-litre HEMI V-8 and 6.7-litre diesel
	220-amp included with 6.7-litre Laramie, Longhorn and Limited
Rating	Dual (220 and 160) optional on 6.4-litre HEMI V-8
Rating	Dual 220-amp optional on 6.7-litre diesel

Battery	
Description	Group 65, maintenance-free, 730 CCA on 6.4-litre HEMI V-8
	Dual Group 65, maintenance-free, 730 CCA on 6.7-litre diesel

## SUSPENSION 2500

Model	4x2	4x4
Front	Three-link with track bar, coil springs, stabilizer bar, solid axle	Three-link with track bar, coil springs, stabilizer bar, solid axle, disconnecting sway bar (Power Wagon only)
Rear	Five-link with track bar, coil springs, stabilizer bar, solid axle	Five-link with track bar, coil springs, stabilizer bar, solid axle (optional air bags)

## SUSPENSION 3500

Model	4x2	4x4
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 (optional supplemental air bags) solid axle	Two-stage longitudinal leaf (optional supplemental air bags) solid axle

## BRAKES

Front	
Size and Type	359.9 X 39.1 (14.17 X 1.54) disc with twin-piston pin-slider caliper and ABS
Rear	
Size and Type	357.9 X 34.0 (14.09 X 1.34) disc with twin-piston pin-slider caliper and ABS
Power-Assist Type	Dual-rate, Tandem Diaphragm Vacuum (2500 gas)
	Hydro-boost (2500 diesel and all 3500)

#### AIR BAGS

Regular Cab	6
Crew Cab	6
Mega Cab	6

#### STEERING

Power Assist	Hydraulic Assist
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#### CARGO BOX

NOMINAL BOX SIZE	6-FT. 4-IN. (CREW OR MEGA)	8-FT. (REGULAR OR CREW)
SAE Volume, L (cu. ft.)	1,628.2 (57.5)	2,115.3 (74.7)
Length at Floor, Tailgate Closed	1,938.5 (76.3)	2,496.5 (98.3)
Cargo Width	1,686.9 (66.4)	1,686.9 (66.4)
Distance Between Wheelhouses	1,295.4 (51)	1,295.4 (51)
Depth	511.1 (20.1)	513.0 (20.2)
Tailgate Opening Width	1,535.3 (60.4)	1,535.3 (60.4)

#### EXTERIOR DIMENSIONS

REGULAR CAB 140.5-IN. WB, 8-FT. BOX (2500)	4x2	4x4
Wheelbase	3,560 (140.2)	3,560 (140.2)
Track Width – Front	1,745 (68.7)	1,745 (68.7)
Track Width – Rear	1,729 (68.1)	1,729 (68.1)
Overall Length	5,892 (232)	5,892 (232)
Overall Width @ SgRp Front	2,120 (83.5)	2,120 (83.5)
Overall Height	1,981 (78)	2,037 (80.2)

<b>Ground Clearance</b>		
Suspension or Axle to Ground – Front	184 (7.3)	237 (9.3)
Suspension or Axle to Ground – Rear	212 (8.4)	217 (8.5)
Approach Angle (Degrees)	18.8	22.8
Ramp Breakover Angle (Degrees)	20.8	23.9
Departure Angle (Degrees)	22.9	29.9
Ground Clearance	332 (13)	333 (13.1)
Turning Diameter	13.8 (45.4)	13.9 (45.5)
<b>CREW CAB 149.5-IN. WB, 6-FT. 4-IN. BOX (2500)</b>	<b>4x2</b>	<b>4x4</b>
Wheelbase	3,785 (149)	3,785 (149)
Track Width – Front	1,745 (68.7)	1,745 (68.7)
Track Width – Rear	1,729 (68.1)	1,729 (68.1)
Overall Length	6,066 (238.8)	6,066 (238.8)
Overall Width @ SgRp Front	2,120 (83.5)	2,120 (83.5)
Overall Height	1,987 (78.2)	2,037 (80.2)
Suspension or Axle to Ground – Front	188 (7.4)	236 (9.3)
Suspension or Axle to Ground – Rear	216 (8.5)	217 (8.5)
Approach Angle (Degrees)	18.8	22.9
Ramp Breakover Angle (Degrees)	20.3	23.9
Departure Angle (Degrees)	23.6	25.8
Ground Clearance	281 (11.1)	333 (13.1)
Turning Diameter	47.9 (14.6)	47.9 (14.6)



<b>CREW CAB 169.5-IN. WB, 8-FT. BOX (2500)</b>	<b>4x2</b>	<b>4x4</b>
Wheelbase	4,293 (169)	4,293 (169)
Track Width – Front	1,734.8 (68.7)	1,745 (68.7)
Track Width – Rear	1,729 (68.1)	1,729 (68.1)
Overall Length	6,626 (260.8)	6,626 (260.8)
Overall Width @ SgRp Front	2,120 (83.5)	2,120 (83.5)
Overall Height	1,983 (78.1)	2,035 (80.1)
Suspension or Axle to Ground – Front	185 (7.3)	237 (9.4)
Suspension or Axle to Ground – Rear	253 (9.9)	218 (8.6)
Approach Angle (Degrees)	18.7	23.2
Ramp Breakover Angle (Degrees)	19.1	22.7
Departure Angle (Degrees)	22.5	24.7
Ground Clearance	282 (11.1)	334 (13.1)
Turning Diameter	53.5 (16.3)	53.5 (16.3)

<b>POWER WAGON CREW CAB 149.3-IN. WB, 6-FT. 4-IN. BOX</b>	<b>4x2</b>	<b>4x4</b>
Wheelbase	—	3,792 (149.3)
Track Width – Front	—	1,745 (68.7)
Track Width – Rear	—	1,729 (68.1)
Overall Length	—	6,067 (238.8)
Overall Width @ SgRp Front	—	2,119 (83.4)
Overall Height	—	2,054 (80.9)
Suspension or Axle to Ground – Front	—	210 (8.3)
Suspension or Axle to Ground – Rear	—	210 (8.3)
Approach Angle (Degrees)	—	29.4
Ramp Breakover Angle (Degrees)	—	22
Departure Angle (Degrees)	—	26

Ground Clearance	—	360 (14.2)
Turning Diameter	—	48.2 (14.7)
<b>MEGA CAB 160.5-IN. WB, 6-FT. 4-IN. BOX (2500)</b>	<b>4x2</b>	<b>4x4</b>
Wheelbase	—	4,074 (160.4)
Track Width – Front	—	1,745 (68.7)
Track Width – Rear	—	1,729 (68.1)
Overall Length	—	6,348 (249.9)
Overall Width @ SgRp Front	—	2,120 (83.5)
Overall Height	—	2,036 (80.1)
Suspension or Axle to Ground – Front	—	238 (9.4)
Suspension or Axle to Ground – Rear	—	217 (8.5)
Approach Angle (Degrees)	—	23.3
Ramp Breakover Angle (Degrees)	—	23.2
Departure Angle (Degrees)	—	25.7
Ground Clearance	—	334 (13.1)
Turning Diameter	—	51.2 (15.6)
<b>REGULAR CAB 140.5-IN. WB, 8-FT. BOX (3500)</b>	<b>4x2</b>	<b>4x4</b>
Wheelbase	3,560 (140.2)	3,560 (140.2)
Track Width – Front	1,719 (67.7)	1,719 (67.7)
	1,769 (69.6) DRW	1,769 (69.6) DRW
Track Width – Rear	1,703 (67.1)	1,703 (67.1)
	1,927 (75.9) DRW	1,927 (75.9) DRW
Overall Length	5,892 (232)	5,892 (232)
Overall Width @ SgRp Front	2,120 (83.5)	2,120 (83.5)
	2,450 (96.5) DRW	2,450 (96.5) DRW

Overall Height	1,976 (77.8)	2,019 (79.5)
Suspension or Axle to Ground – Front	188 (7.4)	237 (9.3)
	168 (6.6) DRW	216 (8.5) DRW
Suspension or Axle to Ground – Rear	209 (7.9)	217 (8.5)
	208 (8.2) DRW	213 (8.4) DRW
Approach Angle (Degrees)	18.2	23.2
	16.6 DRW	20.6 DRW
Ramp Breakover Angle (Degrees)	21.8	25.2
	19.7 DRW	23.2 DRW
Departure Angle (Degrees)	25.4	25.2
	23.6 DRW	24.4 DRW
Ground Clearance	286 (11.2)	338 (13.3)
	269 (10.6) DRW	314 (12.4) DRW
Turning Diameter	45.4 (13.8)	45.5 (13.9)
<b>CREW CAB 169.5-IN. WB, 8-FT. BOX (3500)</b>		
	<b>4x2</b>	<b>4x4</b>
Wheelbase	4,294 (169.1)	4,300 (169.3)
Track Width – Front	1,719 (67.7)	1,719 (67.7)
	1,769 (69.6) DRW	1,769 (69.6) DRW
Track Width – Rear	1,703 (67.1)	1,703 (67.1)
	1,927 (75.9) DRW	1,927 (75.9) DRW
Overall Length	6,626 (260.8)	6,626 (260.8)
Overall Width @ SgRp Front	2,120 (83.5)	2,120 (83.5)
	2,450 (96.5) DRW	2,450 (96.5) DRW
Overall Height	1,990 (78.4)	1,990 (78.4)
	1,959 (77.1) DRW	2,015 (79.3) DRW

Suspension or Axle to Ground – Front	186 (7.3)	186 (7.3)
	162 (6.4) DRW	214 (8.4) DRW
Suspension or Axle to Ground – Rear	228 (9.0)	228 (9.0)
	162 (6.4) DRW	236 (9.3) DRW
Approach Angle (Degrees)	18.3	23.3
	16.9 DRW	20.6 DRW
Ramp Breakover Angle (Degrees)	19.5	22.4
	17.3 DRW	21.3 DRW
Departure Angle (Degrees)	24.2	23.5
	21.2 DRW	24.2 DRW
Ground Clearance	285 (11.2)	290 (11.5)
	260 (10.2) DRW	312 (12.3) DRW
Turning Diameter	53.6 (16.3)	53.7 (16.4)
<b>MEGA CAB 160.5-IN. WB, 6-FT. 4-IN. BOX (3500)</b>		
	<b>4x2</b>	<b>4x4</b>
Wheelbase	—	4,074 (160.4)
Track Width – Front	—	1,719 (67.7)
		1,769 (69.6) DRW
Track Width – Rear	—	1,704 (67.1)
		1,927 (75.9) DRW
Overall Length	—	6,348 (249.9)
Overall Width @ SgRp Front	—	1,994 (83.5)
		2,450 (96.5) DRW
Overall Height	—	2,036 (78.5)
		2,004 (78.9) DRW
Suspension or Axle to Ground – Front	—	187 (7.3)
		214 (8.4) DRW

Suspension or Axle to Ground – Rear	—	210 (8.3)
		174 (6.8) DRW
Approach Angle (Degrees)	—	18.5
		21.7 DRW
Ramp Breakover Angle (Degrees)	—	20.3
		21.5 DRW
Departure Angle (Degrees)	—	25.7
		23.1 DRW

## INTERIOR DIMENSIONS

### ACCOMMODATIONS

#### Model

Seating Capacity, F/R

FRONT	REGULAR CAB	CREW CAB	MEGA CAB
Seating	3/0 or 2/0	3/3 or 2/3	3/3 or 2/3
Headroom	1,011 (39.8)	1,038 (40.9)	1,038 (40.9)
Legroom	1,040 (40.9)	1,040 (40.9)	1,040 (40.9)
Shoulder Room	1,675 (65.9)	1,675 (65.9)	1,675 (65.9)
Hip Room	1,598 (62.9)	1,598 (62.9)	1,598 (62.9)
REAR	REGULAR CAB	CREW CAB	MEGA CAB
Headroom	—	1,010 (39.8)	1,023 (40.3)
Legroom	—	1,022 (40.2)	1,096 (43.1)
Shoulder Room	—	1,667 (65.6)	1,667 (65.6)
Hip Room	—	1,593 (62.7)	1,595 (62.8)
INTERIOR VOLUME	REGULAR CAB	CREW CAB	MEGA CAB
Front – L (cu. ft.)	1,769.8 (62.5)	1,769.8 (62.5)	1,769.8 (62.5)
Rear – L (cu. ft.)	—	1,718.3 (60.7)	1,868.9 (66)

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