



2022 Ram 2500/3500 HD Special Service 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 and Crew Cab 4x4
Assembly Plant	Saltillo Truck Assembly Plant, Coahuila, Mexico
EPA Vehicle Class	Standard Pickup
Introduction Date	Fourth quarter 2021 as a 2022 model

BODY AND CHASSIS

Layout	Longitudinal front engine, rear-wheel drive with transfer case and part-time four-wheel drive
Construction	Ladder-type frame, steel cab, double-wall steel pickup box

ENGINE: 6.4-LITER HEMI® V-8

Availability	Standard on 2500 and 3500
Type and Description	90-degree gasoline V-8 with variable cam timing
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 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) @ 4,000 rpm
Maximum Engine Speed	5,800 rpm limited
Fuel Requirement	Unleaded regular, 87 octane
Oil Capacity	7 quarts (6.6 liters)
Coolant Capacity	16.6 quarts (15.75 liters)
Valve System	Variable-valve timing (VVT), pushrod-operated overhead valves, 16 valves, eight deactivating and eight conventional hydraulic lifters, all with roller followers
Emission Controls	Three-way catalytic converters, heated oxygen sensors, cooled electronic exhaust-gas recirculation (EGR) and individual cylinder fuel control

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ENGINE: 6.7-LITER CUMMINS® TURBO DIESEL I-6

Availability	Available on 2500 & 3500
Type and Description	Inline six cylinder, turbocharged, intercooled diesel
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
Compression Ratio	19.0:1
Power	370 hp (276 Kw) @ 2,800 rpm (68RFE automatic transmission)
Torque	850 lb.-ft. (1,152 N•M) @ 1,700 rpm
Maximum High-Idle Engine Speed	3,200 rpm
Fuel Requirement	Ultra-low sulfur diesel
Oil Capacity	12 quarts (11.3 liters) with filter
Coolant Capacity	23.8 quarts (22.50 liters)
Emission Controls	Selective catalytic reduction (SCR)

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

Availability	Available on 3500
Type and Description	Inline six cylinder, turbocharged, intercooled diesel
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
Compression Ratio	16.2:1
Power	420 hp (313 Kw) @ 2,800 rpm (Aisin automatic transmission)
Torque	1,075 lb.-ft. (1,458 N•M) @ 1,800 rpm
Maximum High-Idle Engine Speed	3,200 rpm
Fuel Requirement	Ultra-low sulfur diesel
Oil Capacity	12 quarts (11.3 liters) with filter
Coolant Capacity	23.8 quarts (22.50 liters)
Emission Controls	Selective catalytic reduction (SCR)

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TRANSMISSION: ZF 8HP75 EIGHT-SPEED AUTOMATIC

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
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 Standard
	4.10 Available

TRANSMISSION: 68RFE SIX-SPEED AUTOMATIC

Availability	6.7-liter 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	1.00
5th	0.82
6th	0.63
Reverse	4.44
Axle Ratios	3.73 Standard: 2500/3500 SRW and 3500 DRW
	4.10 Available: on 3500 DRW only

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TRANSMISSION: AISIN AS69RC SIX-SPEED AUTOMATIC (3500 HIGH OUTPUT)

Availability	6.7-liter diesel high output (available 3500)
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 Standard: 3500
	4.10 Available: 3500 DRW only

TRANSFER CASE: MANUAL SHIFT-ON-THE-FLY

Availability	Standard
Type	Part-time — manual shift
Operating Modes	2WD; 4WD High; Neutral; 4WD Low
Low-Range Ratio	2.64
Center Differential	None

TRANSFER CASE: ELECTRIC SHIFT-ON-THE-FLY

Availability	Available
Type	Part-time with electric shift, part-time manual shift
Operating Modes	2WD; 4WD High; Neutral; 4WD Low
Low-Range Ratio	2.64
Center Differential	None

AXLES

Front	AAM 9.25-in. beam front axle with center disconnect (locking differentials on Power Wagon)
Rear	AAM 11.5-in. beam rear axle (2500 and 3500 limited-slip and locking differentials on Power Wagon)
	AAM 12.0-in. beam rear axle (included on 3500 with available 6.7L HO Diesel engine and Aisin six-speed automatic transmission)

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ELECTRICAL SYSTEM

Alternator

Rating	220-amp
	Available Dual (220- and 160-amp) on 6.4L V-8
	Available Dual (220-amp) on 6.7L Diesel and 6.7L HO Diesel

Battery

Description	Maintenance-free, 730 CCA on 6.4-liter HEMI® V-8
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SUSPENSION

Front	Three-link with track bar, coil springs, stabilizer bar, solid axle, disconnecting sway bar (2500 Power Wagon only)
Rear	Five-link with track bar, coil springs, stabilizer bar, solid axle (optional air bags) (2500) Hotchkis leaf-springs, solid axle (3500) Available Auto-Level Air Suspension (not available on 2500 regular cab with 6.4L V-8)

STEERING

Power Assist	Hydraulic
Steering Ratio	16.7
Steering Turns (lock-to-lock)	3.2

CARGO BOX¹

NOMINAL BOX SIZE	6-FT. 4-IN. (CREW)	8-FT. (REGULAR OR CREW)
SAE Volume, cu. ft. (cu. m)	57.5 (1.6)	74.7 (2.1)
Length at Floor, Tailgate Closed	76.3 (1,938.5)	98.3 (2,496.5)
Cargo Width	66.4 (1,686.9)	66.4 (1,686.9)
Distance Between Wheelhouses	51 (1,295.4)	51 (1,295.4)
Depth	20.1 (511.1)	20.2 (513.0)
Tailgate Opening Width	60.4 (1,535.3)	60.4 (1,535.3)

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EXTERIOR DIMENSIONS¹

Regular Cab 8-ft. Box	2500	3500
Wheelbase	140.2 (3,560)	140.2 (3,560)
Track Width – Front	68.7 (1,745)	67.7 (1,719)
		67.7 (1,719) DRW
Track Width – Rear	68.1 (1,729)	67.1 (1,703)
		75.9 (1,927) DRW
Overall Length	232 (5,892)	232 (5,892)
		232 (5,892) DRW
Overall Width @ SgRp Front	83.5 (2,120)	83.5 (2,120)
		96.5 (2,450) DRW
Overall Height	80.2 (2,037)	80.4 (2,042)
Suspension or Axle to Ground	9.3 (237)	9.3 (237)
– Front		8.5 (216) DRW
Suspension or Axle to Ground	8.5 (217)	8.7 (222)
– Rear		8.0 (203) DRW
Approach Angle (Degrees)	22.8	23.2
		21.7 DRW
Ramp Breakover Angle (Degrees)	21.4	22.9
		18.4 DRW
Departure Angle (Degrees)	24.9	25.2
		23.1 DRW
Ground Clearance	13.1 (333)	13.3 (338)
		12.4 (314) DRW
Turning Diameter, ft. (m)	45.5 (13.9)	45.5 (13.9)
Crew Cab 6-ft. 4-in. Box	2500	3500
Wheelbase	149.1 (3,787)	149 (3,785)
Power Wagon	149.3 (3,792)	
Track Width – Front	68.7 (1,745)	67.7 (1,720)
Track Width – Rear	68.1 (1,730)	67.1 (1,704)
Overall Length	238.8 (6,066)	238.8 (6,066)
Overall Width	83.5 (2,121)	83.5 (2,121)
Power Wagon	83.4 (2,119)	
Overall Height	80.2 (2,037)	80.3 (2,040)
Power Wagon	80.9 (2,054)	
Suspension or Axle to Ground	9.3 (236)	9.3 (236)
– Front	8.3 (210)	
Suspension or Axle to Ground	8.5 (217)	8.7 (221)
– Rear	8.3 (210)	
Approach Angle (Degrees)	22.9	23
Power Wagon	29.4	

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Crew Cab 6-ft. 4-in. Box (cont.)	2500	3500
Ramp Breakover Angle (Degrees)	21.4	21.6
Power Wagon	23.1	
Departure Angle (Degrees)	25.8	25.9
Power Wagon	26	
Ground Clearance	13.1 (333)	11.5 (292.1)
Power Wagon	14.2 (360)	
Turning Diameter, ft. (m)	48.0 (14.6)	48.0 (14.6)
Power Wagon	48.2 (14.7)	
Crew Cab 8-ft. Box	2500	3500
Wheelbase	169 (4,293)	169.3 (4,300)
Track Width – Front	68.7 (1,745)	67.7 (1,720)
		67.7 (1,720) DRW
Track Width – Rear	68.1 (1,729)	67.1 (1,703)
		75.9 (1,927) DRW
Overall Length	260.8 (6,626)	260.8 (6,626)
Overall Width @ SgRp Front	83.5 (2,120)	83.5 (2,120)
		96.5 (2,450) DRW
Overall Height	80.1 (2,035)	79.8 (2,027)
		79.3 (2,015) DRW
Suspension or Axle to Ground	9.4 (237)	9.3 (237)
– Front		8.5 (215) DRW
Suspension or Axle to Ground	8.6 (218)	8.7 (222)
– Rear		8.0 (204) DRW
Approach Angle (Degrees)	23.2	23.3
		20.6 DRW
Ramp Breakover Angle (Degrees)	19.5	19.1
		21.3 DRW
Departure Angle (Degrees)	24.7	23.5
		24.2 DRW
Ground Clearance	13.1 (334)	11.5 (290)
		12.3 (312) DRW
Turning Diameter, ft. (m)	53.7 (16.4)	53.7 (16.4)

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CAPACITIES¹

Fuel Tank Capacity	32 gal. (140.9 liter) standard on Regular Cabs and Crew Cabs with 8-ft. box
	31 gal. (136.6 liter) standard on Crew Cab with 6-ft. 4-in. box
	50 gal. (220.2 liter) available on Crew Cab with 8-ft. box

INTERIOR DIMENSIONS

ACCOMMODATIONS (Model, Seating Capacity)

FRONT	Regular Cab	Crew Cab
Seating	3	6
Headroom	39.8 (1,011)	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)

REAR	Regular Cab	Crew Cab
Headroom	NA	39.8 (1,010)
Legroom	NA	40.2 (1,022)
Shoulder Room	NA	65.6 (1,666)
Hip Room	NA	62.7 (1,593)

INTERIOR VOLUME	Regular Cab	Crew Cab
Front – cu. ft. (cu. m)	62.5 (1.8)	63.9 (1.8)
Rear – cu. ft. (cu. m)	NA	60.7 (1.7)

Engine	GVWR ² lbs. (kg)	Curb Weight ³ lbs. (kg)	Payload ⁴ lbs. (kg) ⁵
2500	10,000 (4,535.9)	6,307 – 7,187 (2,860.8 – 3,260)	3,690 (1,673.8)
3500	14,000 (6,350.3)	6,770 – 8,413 (3,070.8 – 3,816.1)	7,230 (3,279.5)

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TIRES

Availability	Standard
Size and Type	LT245/70R17E
Mfr. and Model	Firestone® Transforce HT All-Season (2500 only) BSW
Availability	Included with available Chrome Appearance Group
Size and Type	LT275/70R18E
Mfr. And Model	Firestone Transforce HT All-Season BSW
Availability	Available or included with Snow Chief Group or Off-Road Group (not available with dual rear wheels)
Size and Type	LT275/70R18E
Mfr. and Model	Firestone Transforce All-Terrain On-/Off-Road OWL
Availability	Included on 3500 with Dual Rear Wheels
Size and Type	LT235/80R17E
Model	BSW All-Season
Availability	Available 3500 with Dual Rear Wheels
Size and Type	LT235/80R17E
Model	On-/Off-Road OWL

WHEELS

Availability	Standard on 2500
Type and Material	Painted Argent steel
Size (inches)	17 x 7.5
Availability	Available on 2500, Standard on 3500
Type and Material	Painted Argent steel
Size (inches)	18 x 8
Availability	Included with available Dual Rear Wheels on 3500
Type and Material	Painted Argent steel
Size (inches)	17 x 6
Availability	Included with available Chrome Appearance Group and Single Rear Wheels
Type and Material	Chrome Clad Wheels
Size (inches)	18 x 8
Availability	Included with available Chrome Appearance Group and Dual Rear Wheels on 3500
Type and Material	Chrome Clad Wheels
Size (inches)	17 x 6

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BRAKES

Type	Power-assisted, anti-lock brake system (ABS)
Front rotor size and type	14.17 x 1.54 (359.9 x 39.1) disc with twin-piston pin-slider caliper
Rear rotor size and type	14.09 x 1.34 (357.9 x 34.0) disc with single-piston floating caliper
Parking Brake Type	Rear, mechanical, drum-in-hat
Power Assist	Dual-rate, tandem diaphragm vacuum (2500 gas) Hydro-boost (2500 diesel and all 3500)
Four-wheel Anti-lock Brakes	Standard
Electronic Stability Control	Standard
All-speed Traction Control	Standard
Brake Assist	Standard

TRAILER TOWING

2500	Axle Ratio	Maximum Trailer Weight lbs. (kg) ⁵
Regular Cab 8-ft. Box	3.73 Std.	14,720 (6,676.9) – 19,990 (9,067.3)
	4.10 Avail.	17,220 (7,810.9)
Crew Cab 6-ft. 4-in. Box	3.73 Std.	14,390 (6,527.2) – 20,000 (9,071.8)
	4.10 Avail.	16,890 (7,661.2)
Crew Cab 8-ft. Box	3.73 Std.	14,200 (6,441) – 18,230 (8,269)
	4.10 Avail.	16,700 (7,575) – 18,230 (8,269)
3500		
Regular Cab 8-ft. Box	3.73 Std.	14,260 (6,468.2) – 33,260 (15,086.5)
	4.10 Avail.	17,760 (8,055.8) – 34,660 (15,721.5)
Crew Cab 8-ft. Box	3.73 Std.	13,730 (6,227.8) – 32,720 (14,841.5)
	4.10 Avail.	17,230 (7,815.4) – 34,120 (15,476.6)

1. All dimensions are in inches unless otherwise noted. 2. Gross Vehicle Weight Rating. 3. Curb weight includes standard equipment and full quantities of fuel, lubricant and coolant. 4. Payload is the maximum allowable weight of driver, passengers, cargo, and options, rounded to the nearest 10 lbs. (5kg). 5. When properly equipped. See dealer for details. ©2022 FCA US LLC. All Rights Reserved. Ram and HEMI are registered trademarks of FCA US LLC.

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