# 2023 Ram 2500 & 3500 Heavy Duty

## 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 and Mega Cab: 4x2, 4x4

Assembly Plant Saltillo Truck Assembly Plant, Coahuila, Mexico

EPA 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-LITER HEMI® V-8

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) at 4,000 RPM

Maximum Engine Speed 5,800 RPM limited

Fuel Requirement Unleaded regular, 87 octane

Oil Capacity 7.0 quarts (6.6 liters)

Coolant Capacity 16.6 quarts (15.75 liters)

### ENGINE: 6.4-LITER HEMI® V-8 (CONTINUED)

Emission Controls 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 (2500/3500 Standard Output)

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 12.0 quarts (11.3 liters) with filter

Coolant Capacity 23.8 quarts (22.50 liters)

Emission Controls Selective catalytic reduction (SCR)

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

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 12.0 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 (3500 High Output)

Availability 6.7-liter 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-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, 4.10

### TRANSMISSION: 68RFE — AUTOMATIC SIX-SPEED

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 1.0

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-liter diesel and 6.4-liter 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

Center Differential None

### TRANSFER CASE: BW 44-48

Availability 6.7-liter 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

Center Differential None

### AXLES

Front (4x4) 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 (3500 Max Tow)

### ELECTRICAL SYSTEM

Alternator

Rating 180-amp included with 6.4-liter HEMI V-8 and 6.7-liter diesel

220-amp included with 6.7-liter Laramie, Longhorn 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

### 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 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 (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

### CARGO BOX

| NOMINAL BOX SIZE | 6-FT. 4-IN.  (CREW OR MEGA) | 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) |

### EXTERIOR DIMENSIONS

#### REGULAR CAB 140.5-IN. WB, 8-FT. BOX (2500)

| Regular Cab 140.5-in. WB,  8-ft. Box (2500) | 4x2 | 4x4 |
| --- | --- | --- |
| Wheelbase | 140.2 (3,560) | 140.2 (3,560) |
| Track Width – Front | 68.7 (1,745) | 68.7 (1,745) |
| Track Width – Rear | 68.1 (1,729) | 68.1 (1,729) |
| Overall Length | 232 (5,892) | 232 (5,892) |
| Overall Width @ SgRp Front | 83.5 (2,120) | 83.5 (2,120) |
| Overall Height | 78 (1,981) | 80.2 (2,037) |
| Suspension or Axle to Ground – Front | 7.3 (184) | 9.3 (237) |
| Suspension or Axle to Ground – Rear | 8.4 (212) | 8.5 (217) |
| Approach Angle (Degrees) | 18.8 | 22.8 |
| Ramp Breakover Angle (Degrees) | 20.8 | 23.9 |
| Departure Angle (Degrees) | 22.9 | 29.9 |
| Ground Clearance | 13 (332) | 13.1 (333) |
| Turning Diameter | 45.4 (13.8) | 45.5 (13.9) |

#### CREW CAB 149.5-IN. WB, 6-FT. 4-IN. BOX (2500)

| Crew Cab 149.5-in. WB,  6-ft. 4-in. Box (2500) | 4x2 | 4x4 |
| --- | --- | --- |
| Wheelbase | 149 (3,785) | 149 (3,785) |
| Track Width – Front | 68.7 (1,745) | 68.7 (1,745) |
| Track Width – Rear | 68.1 (1,729) | 68.1 (1,729) |
| Overall Length | 238.8 (6,066) | 238.8 (6,067) |
| Overall Width @ SgRp Front | 83.5 (2,120) | 83.5 (2,120) |
| Overall Height | 78.2 (1,987) | 80.2 (2,037) |
| Suspension or Axle to Ground – Front | 7.4 (188) | 9.3 (236) |
| Suspension or Axle to Ground – Rear | 8.5 (216) | 8.5 (217) |
| Approach Angle (Degrees) | 18.8 | 22.9 |
| Ramp Breakover Angle (Degrees) | 20.3 | 23.9 |
| Departure Angle (Degrees) | 23.6 | 25.8 |
| Ground Clearance | 11.1 (281) | 13.1 (333) |
| Turning Diameter | 14.6 (47.9) | 14.6 (47.9) |

#### CREW CAB 169.5-IN. WB, 8-FT. BOX (2500)

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

#### POWER WAGON CREW CAB 149.3-IN. WB, 6-FT. 4-IN. BOX

| Power Wagon Crew Cab  149.3-in. WB, 6-ft. 4-in. Box | 4x2 | 4x4 |
| --- | --- | --- |
| Wheelbase | NA | 149.3 (3,792) |
| Track Width – Front | NA | 68.7 (1,745) |
| Track Width – Rear | NA | 68.1 (1,729) |
| Overall Length | NA | 238.8 (6,067) |
| Overall Width @ SgRp Front | NA | 83.4 (2,119) |
| Overall Height | NA | 80.9 (2,054) |
| Suspension or Axle to Ground – Front | NA | 8.3 (210) |
| Suspension or Axle to Ground – Rear | NA | 8.3 (210) |
| Approach Angle (Degrees) | NA | 29.4 |
| Ramp Breakover Angle (Degrees) | NA | 22 |
| Departure Angle (Degrees) | NA | 26 |
| Ground Clearance | NA | 14.2 (360) |
| Turning Diameter | NA | 14.7 (48.2) |

#### MEGA CAB 160.5-IN. WB, 6-FT. 4-IN. BOX (2500)

| Mega Cab 160.5-in. WB,  6-ft. 4-in. Box (2500) | 4x2 | 4x4 |
| --- | --- | --- |
| Wheelbase | NA | 160.4 (4,074) |
| Track Width – Front | NA | 68.7 (1,745) |
| Track Width – Rear | NA | 68.1 (1,729) |
| Overall Length | NA | 249.9 (6,348) |
| Overall Width @ SgRp Front | NA | 83.5 (2,120) |
| Overall Height | NA | 80.1 (2,036) |
| Suspension or Axle to Ground – Front | NA | 9.4 (238) |
| Suspension or Axle to Ground – Rear | NA | 8.5 (217) |
| Approach Angle (Degrees) | NA | 23.3 |
| Ramp Breakover Angle (Degrees) | NA | 23.2 |
| Departure Angle (Degrees) | NA | 25.7 |
| Ground Clearance | NA | 13.1 (334) |
| Turning Diameter | NA | 15.6 (51.2) |

#### REGULAR CAB 140.5-IN. WB, 8-FT. BOX (3500)

| Regular Cab 140.5-in. WB,  8-ft. Box (3500) | 4x2 | 4x4 |
| --- | --- | --- |
| Wheelbase | 140.2 (3,560) | 140.2 (3,560) |
| Track Width – Front | 67.7 (1,719)  69.6 (1,769) DRW | 67.7 (1,719)  69.6 (1,769) DRW |
| Track Width – Rear | 67.1 (1,703)  75.9 (1,927) DRW | 67.1 (1,703)  75.9 (1,927) DRW |
| Overall Length | 232 (5,892) | 232 (5,892) |
| Overall Width @ SgRp Front | 83.5 (2,120)  96.5 (2,450) DRW | 83.5 (2,120)  96.5 (2,450) DRW |
| Overall Height | 77.8 (1,976) | 79.5 (2,019) |
| Suspension or Axle to Ground – Front | 7.4 (188)  6.6 (168) DRW | 9.3 (237)  8.5 (216) DRW |
| Suspension or Axle to Ground – Rear | 7.9 (209)  8.2 (208) DRW | 8.5 (217)  8.4 (213) DRW |
| Approach Angle (Degrees) | 18.2  16.6 DRW | 23.2  20.6 DRW |
| Ramp Breakover Angle (Degrees) | 21.8  19.7 DRW | 25.2  23.2 DRW |
| Departure Angle (Degrees) | 25.4  23.6 DRW | 25.2  24.4 DRW |
| Ground Clearance | 11.2 (286)  10.6 (269) DRW | 13.3 (338)  12.4 (314) DRW |
| Turning Diameter | 13.8 (45.4) | 13.9 (45.5) |

#### CREW CAB 169.5-IN. WB, 8-FT. BOX (3500)

| Crew Cab 169.5-in. WB,  8-ft. Box (3500) | 4x2 | 4x4 |
| --- | --- | --- |
| Wheelbase | 169.1 (4,294) | 169.3 (4,300) |
| Track Width – Front | 67.7 (1,719)  69.6 (1,769) DRW | 67.7 (1,719)  69.6 (1,769) DRW |
| Track Width – Rear | 67.1 (1,703)  75.9 (1,927) DRW | 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)  96.5 (2,450) DRW | 83.5 (2,120)  96.5 (2,450) DRW |
| Overall Height | 78.4 (1,990)  77.1 (1,959) DRW | 78.4 (1,990)  79.3 (2,015) DRW |
| Suspension or Axle to Ground – Front | 7.3 (186)  6.4 (162) DRW | 7.3 (186)  8.4 (214) DRW |
| Suspension or Axle to Ground – Rear | 9.0 (228)  6.4 (162) DRW | 9.0 (228)  9.3 (236) DRW |
| Approach Angle (Degrees) | 18.3  16.9 DRW | 23.3  20.6 DRW |
| Ramp Breakover Angle (Degrees) | 19.5  17.3 DRW | 22.4  21.3 DRW |
| Departure Angle (Degrees) | 24.2  21.2 DRW | 23.5  24.2 DRW |
| Ground Clearance | 11.2 (285)  10.2 (260) DRW | 11.5 (290)  12.3 (312) DRW |
| Turning Diameter | 16.3 (53.6) | 16.4 (53.7) |

#### MEGA CAB 160.5-IN. WB, 6-FT. 4-IN. BOX (3500)

| Mega Cab 160.5-in. WB,  6-ft. 4-in. Box (3500) | 4x2 | 4x4 |
| --- | --- | --- |
| Wheelbase | NA | 160.4 (4,074) |
| Track Width – Front | NA | 67.7 (1,719)  69.6 (1,769) DRW |
| Track Width – Rear | NA | 67.1 (1,704)  75.9 (1,927) DRW |
| Overall Length | NA | 249.9 (6,348) |
| Overall Width @ SgRp Front | NA | 83.5 (1,994)  96.5 (2,450) DRW |
| Overall Height | NA | 78.5 (2,036)  78.9 (2,004) DRW |
| Suspension or Axle to Ground – Front | NA | 7.3 (187)  8.4 (214) DRW |
| Suspension or Axle to Ground – Rear | NA | 8.3 (210)  6.8 (174) DRW |
| Approach Angle (Degrees) | NA | 18.5  21.7 DRW |
| Ramp Breakover Angle (Degrees) | NA | 20.3  21.5 DRW |
| Departure Angle (Degrees) | NA | 25.7  23.1 DRW |

### INTERIOR DIMENSIONS

#### ACCOMMODATIONS (Model, Seating Capacity, F/R)

##### FRONT

|  |  |  |  |
| --- | --- | --- | --- |
| Front | Regular Cab | Crew Cab | Mega Cab |
| Seating | 3/0 or 2/0 | 3/3 or 2/3 | 3/3 or 2/3 |
| Headroom | 39.8 (1,011) | 40.9 (1,038) | 40.9 (1,038) |
| Legroom | 40.9 (1,040) | 40.9 (1,040) | 40.9 (1,040) |
| Shoulder Room | 65.9 (1,675) | 65.9 (1,675) | 65.9 (1,675) |
| Hip Room | 62.9 (1,598) | 62.9 (1,598) | 62.9 (1,598) |

##### Rear

|  |  |  |  |
| --- | --- | --- | --- |
| Rear | Regular Cab | Crew Cab | Mega Cab |
| Headroom | NA | 39.8 (1,010) | 40.3 (1,023) |
| Legroom | NA | 40.2 (1,022) | 43.1 (1,096) |
| Shoulder Room | NA | 65.6 (1,666) | 65.6 (1,667) |
| Hip Room | NA | 62.7 (1,593) | 62.8 (1,595) |

### Interior Volume

|  |  |  |  |
| --- | --- | --- | --- |
| Interior Volume | Regular Cab | Crew Cab | Mega Cab |
| Front – cu. ft. (cu. m) | 62.5 (1.8) | 63.9 (1.8) | 63.9 (1.8) |
| Rear – cu. ft. (cu. m) | NA | 60.7 (1.7) | 66 (1.9) |

###