



Product Info

2023 Ram 1500 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	Crew Cab 4x4
Assembly Plant	Warren Assembly Plant, Warren, Michigan
EPA Vehicle Class	Standard Pickup
Introduction Date	Third quarter 2020 as a 2021 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: 5.7-LITER HEMI® V-8

Availability	Standard
Type and Description	90-degree V-type, liquid-cooled with variable-cam timing (VCT)
Displacement	345 cu. in. (5,654 cu. cm)
Bore x Stroke	3.92 x 3.58 (99.5 x 90.9)
Valve System	Variable-valve timing (VVT), pushrod-operated overhead valves, 16 valves, eight deactivating and eight conventional hydraulic lifters, all with roller followers
Fuel Injection	Sequential, multiport, 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 (est.) (SAE J2723)	395 hp (291 kW) at 5,600 rpm
Torque (est.) (SAE J2723)	410 lb.-ft. (556 N•m) at 3,950 rpm
Max. Engine Speed	5,800 rpm (electronically limited)
Fuel Requirement	Unleaded mid-grade, 89 octane — recommended Unleaded regular, 87 octane — acceptable
Oil Capacity	7 quarts (6.6 liters)
Coolant Capacity	16 quarts (15.2 liters)



Product Info

ENGINE: 5.7-LITER HEMI® V-8 (CONTINUED)

Emission Controls	Dual close-coupled three-way catalytic converters, quad heated oxygen sensors and internal engine features ¹
FCA-Estimated Fuel Economy mpg (city/hwy)	15/21 ²
Assembly Plant	Saltillo Engine Plant, Saltillo, Mexico

TRANSMISSION: TORQUEFLITE® 8HP70 EIGHT-SPEED OVERDRIVE AUTOMATIC

Availability	Standard
Description	Driver-interactive manual control via shifter and electronically-modulated torque converter clutch with Eco Mode
Gear Ratios	
1st	4.71
2nd	3.14
3rd	2.11
4th	1.67
5th	1.28
6th	1.00
7th	0.84
8th	0.67
Reverse	3.29

TRANSFER CASE: MP 3023

Availability	Standard
Type	Two-speed, electronically shifted
Operating Modes	4x4 Low (Lock); Neutral; 4x4
Low Range Ratio	2.72
Torque Split, Front/Rear	Variable

AXLES

Front

Differential type	Conventional
Ring gear diameter	7.7 (195)
Axle ratios	3.09:1

Rear

Differential type	Conventional
Ring gear diameter	9.1 (230)
Axle ratios	3.21:1 standard / 3.92:1 optional



Product Info

ELECTRICAL SYSTEM

Alternator	220-amp
Battery	Maintenance-free
	730 CCA

SUSPENSION

Front	Short- and long-arm independent (SLA), coil springs, heavy-duty shock absorbers, steel upper- and aluminum lower-control arms ("A" arms), aluminum knuckle, stabilizer bar
Rear	Five-link rear suspension, coil spring, heavy-duty shock absorbers and stabilizer bar

STEERING

Steering Ratio	16.7
Steering Turns (lock-to-lock)	3.2
Turning Diameter (curb-to-curb)	41 ft. (12.5 m)

DIMENSIONS AND CAPACITIES³

Wheelbase	140.5 (3,569)
Track, Front	68.2 (1,732)
Track, Rear	67.5 (1,715)
Overall Length	229 (5,817)
Overall Width (width at mirrors)	79.4 (2,017)
Body Width	75.8 (1,925.3)
Overall Height (at roof rail/at antenna)	77.5 (1,969)
Load Floor Height	34.9 (886)
Ground Clearance	8.1 (205.7)
Chassis (fuel tank)	10.0 (254)
Front Axle	8.5 (215.9)
Rear Axle	9.25 (235)
Approach Angle (degrees)	16.3
Ramp Breakover Angle (degrees)	18.1
Departure Angle (degrees)	21.5
Frontal Area	31.0 sq. ft. (2.88 sq. m)
Drag Coefficient	0.35
Fuel Tank Capacity	26 gal. (98.4 liter) standard / 32 gal. (121.1 liter) optional



Product Info

ACCOMMODATIONS³

Seating Capacity (front/rear)	2 front, 3 rear standard / 3 front, 3 rear optional		
Front			
Headroom	41 (1,041)		
Legroom	41 (1,041)		
Shoulder room	66 (1,676)		
Hip room	63.2 (1,605)		
Seat travel	Driver — 11.0 (279.4) Passenger — 9.0 (228.6)		
SAE front volume index	54.4 cu. ft. (1.54 cu. m)		
Rear			
Headroom	39.9 (1,013)		
Legroom	40.3 (1,023.6)		
Shoulder room	65.7 (1,668.8)		
Hip room	63.2 (1,605)		
SAE volume	44.8 cu. ft. (1.27 cu. m)		
SAE Cargo Volume	50.3 (1.42 cu. m)		
Engine	GVWR ⁴ lbs. (kg)	Curb Weight ⁵ lbs. (kg)	Payload ⁶ lbs. (kg) ⁷
5.7-liter	6,900 (3,129.8)	5,211 (2,364)	1,560 (708)

TIRES

Availability	Standard
Size and Type	P265/70R17
Mfr. and Model	Michelin Black Sidewall All-season
Availability	Optional
Size and Type	LT265/70R17E
Mfr. and Model	N/A Black Sidewall All-terrain

WHEELS

Type and Material	Painted Argent steel
Size (inches)	17 x 7



Product Info

BRAKES

Type	Power-assisted, anti-lock brake system (ABS)
Front	
Rotor size and type	13.2 x 1.1 (336 x 28) vented disc
Caliper size and type	2.13 (54) two-piston pin-slider caliper
Swept area (sq. in./sq. cm)	292 (1,884)
Rear	
Rotor size and type	13.8 x 0.87 (352 x 22) disc
Caliper size and type	2.13 (54) single-piston pin-slider caliper
Swept area (sq. in./sq. cm)	274 (1,768)
Parking Brake Type	Rear, mechanical, drum-in-hat
Power Assist	Dual-rate, tandem diaphragm vacuum
Four-wheel Anti-lock Brakes	Standard
Electronic Stability Control	Standard
All-speed Traction Control	Standard
Brake Assist	Standard

TRAILER TOWING

	Axle Ratio	Maximum Trailer Weight lbs. (kg) ⁷
	3.21 Standard	8,060 (3,656)
	3.92 Available	10,270 (4,658.4)

1. Meets Calif. LEV II+ evaporative emission requirements in CA, NY, MA, ME, VT and Federal Bin 5+ Tier II emissions and Clean Fuel Fleet Certification (CCF).
 2. FCA-estimated mpg with 5.7L engine and eight-speed automatic transmission. Actual mileage may vary. 3. All dimensions are in inches unless otherwise noted. 4. Gross Vehicle Weight Rating. 5. Curb weight includes standard equipment and full quantities of fuel, lubricant and coolant. 6. Payload is the maximum allowable weight of driver, passengers, cargo, and options, rounded to the nearest 10 lbs. (5kg). 7. When properly equipped. See dealer for details.
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