



## 2021 RAM 1500 TRX

### 2021 Ram 1500 TRX 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	Sterling Heights Assembly Plant, Sterling Heights, Michigan
EPA Vehicle Class	Standard Pickup

#### BODY/CHASSIS

4x4 — Longitudinal, front engine, transfer case, ladder-type frame, steel cab, double-wall steel pickup box
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#### ENGINE: 6.2-LITER HEMI® SUPERCHARGED V-8

Type and Description	90-degree V-type, liquid-cooled
Displacement	376 cu. in. (6,166 cu. cm)
Bore x Stroke	4.09 x 3.58 (103.9 x 90.9)
Valve System	Pushrod-operated overhead valves, 16 valves with sodium-filled exhaust valves and hollow stem intake valves, 16 conventional hydraulic lifters, all with roller tips
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	9.5:1
Power (SAE J2723)	702 hp (523 kW) @ 6,100 rpm
Torque (SAE J2723)	650 lb.-ft. (882 Nm) @ 4,800 rpm
Max. Engine Speed	6,200 rpm (electronically limited)
Fuel Requirement	Premium 91 octane (R+M)/2 — required
Oil Capacity	7.9 quarts (7.4 liters)
Coolant Capacity	15.0 quarts (14.4 liters)
Factory Oil Fill	0W-40 Pennzoil Ultra synthetic



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Emission Controls	Dual close-coupled two-way catalytic converters heated wide-range upstream and switching downstream O <sub>2</sub> sensors and internal engine features
Exhaust Type	Dual 3-in. straight-thru exhaust system with dual 5-in. Black tips
EPA Fuel Economy mpg (city / hwy / combined)	10 city / 14 highway / 12 combined
Assembly Plant	Saltillo Engine Plant, Saltillo, Mexico

## TRANSMISSION: TORQUEFLITE 8HP95 EIGHT-SPEED AUTOMATIC

Availability	Standard with 6.2-liter HEMI supercharger V-8
Description	Adaptive electronic control with full manual control via gear selector or paddle shifters with six TRX-unique selectable modes: Sport, Snow, Tow, Mud, Baja and Auto (features performance shifting and gear holding feature)
Gear Ratios	
1st	4.71
2nd	3.14
3rd	2.11
4th	1.67
5th	1.29
6th	1.00
7th	0.84
8th	0.67
Reverse	3.30
Final Drive Ratio	2.62
Overall Top Gear	1.76
Axle Ratios	3.55

## TRANSFER CASE: BW 48-13 FULL-TIME

Availability	6.2-liter HEMI supercharged V-8 4x4
Shift Mechanism	Electric
Available Speeds	Two-speed
Operating Modes	4WD Auto, 4WD High, Locked; Neutral; 4WD Low, Locked
Torque Split, Front/Rear	Variable – 40/60 Auto, 45/55 Snow, 45/55 Tow, 30/70 Sport, 25/75 Baja, 45/55 Mud/Sand and 50/50 Rock (in 4L)
Low-range Ratio	2.64
Center Differential Type	None



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## AXLES

Front	8.5 (215)
Rear	10.1 (256) Dana 60 with available open, limited slip or electronic locking differential
Available Ratios	3.55

## ELECTRICAL SYSTEM

Architecture	Powernet
Alternator	250-amp
Battery	H7 AGM 80AH 800CCA

## SUSPENSION

Front	Upper and lower A-arms, coil springs, Bilstein e2 Blackhawk active performance shock absorber
Rear	Five-link with track bar, coil springs, Bilstein e2 Blackhawk active damping twin-tube performance shock absorbers, solid axle

## BRAKES

Front	
Size and Type	15 x 1.2 (378 x 30) inverted hat (outboard venting) rotors with 2.2 in. (57 mm) two-piston pin-slider caliper and anti-lock braking system (ABS)
Swept Area	493.6 sq.in. (3,184 sq.cm)
Rear	
Size and Type	15 x 0.87 (375 x 22) disc with 2.2 in. (57 mm) single-piston pin-slider caliper and ABS
Swept Area	367.6 sq.in. (2,371.9 sq.cm)
Power-assist	Dual-rate, tandem diaphragm vacuum

## STEERING

Power assist	Electric power steering
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## AIR BAGS

Crew Cab	6
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## CARGO BOX

NOMINAL BOX SIZE	5FT., 7IN. (CREW)
SAE volume, cu. ft. (cu m)	53.9 (1.5)
Length-at-Floor, Tailgate Closed	67.4 (1,711)
Cargo Width	66.4 (1,687)
Distance Between Wheelhouses	51.0 (1,295)
Depth	21.4 (543)
Tailgate Opening Width	60.0 (1,525)

## EXTERIOR DIMENSIONS

### CREW CAB PICKUP

MODEL – TIRE SIZE	4x4 – 325/65/R18
BOX LENGTH	5ft., 7in.
Wheelbase (nominal)	145.1 (3685.5)
Track, Front	74.5 (1892.3)
Track, Rear	74.1 (1882.14)
Overall Length	232.9 (5,916)
Overall Width	88 (2,235.2)
Overall Height	80.9 (2054.86)

### GROUND CLEARANCE

Front Axle	9.4 (238.8)
Rear Axle	8.0 (203.2)
Open Tailgate to Ground	38.1 (967)
Approach Angle, degrees	30.2
Departure Angle, degrees	23.5
Ramp Breakover Angle, degrees	21.9
Ground Clearance With Skid Plate	11.8 (299.7)
Fuel Tank Capacity	33-gal. (125-liter) (standard)



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## INTERIOR DIMENSIONS

### ACCOMMODATIONS

MODEL	CREW CAB
Seating Capacity, F/R	2/3
FRONT	CREW CAB
Headroom	40.9 (1,038)
Legroom	40.9 (1,040)
Shoulder Room	66.0 (1,676)
Hip Room	63.4 (1,610)
Seat Travel	8.7 (220)
Recliner Range (degrees)	Total travel 71 degrees (from full forward) 18 degrees forward (from design) 53 degrees rearward (from design)
REAR	CREW CAB
Headroom	39.8 (1,011)
Legroom	45.2 (1,147)
Shoulder Room	65.7 (1,670)
Hip Room	63.4 (1,611)

### INTERIOR VOLUME

#### CREW CAB

Front – cu. ft. (cu m)	63.9 (1.8)
Rear – cu. ft. (cu m)	68.5 (1.9)

### MEASUREMENT

#### TRX 4WD

Wheelbase (nominal)	145.1 / 3685.5
Overall Ratio	16.3:1
Steering Wheel Turns (lock-to-lock)	3.1
18-in. Wheel Turning Diameter (ft. / M)*	48.3 / 14.7
Curb weight	6,350 lbs.

\* = Curb-to-curb turning diameter is measured at the outside of the tires at curb height. Turning diameters and steering wheel turns, lock-to-lock may differ with optional tires and wheels.

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