



## 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 |
|---|

#### 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<br>(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 |
|--------------|-------------------------|

## 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)<br>18 degrees forward (from design)<br>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

| INTERIOR VOLUME        | CREW CAB   |
|------------------------|------------|
| Front – cu. ft. (cu m) | 63.9 (1.8) |
| Rear – cu. ft. (cu m)  | 68.5 (1.9) |

### MEASUREMENT

| MEASUREMENT                                 | TRX 4WD        |
|---|----------------|
| Wheelbase (nominal)                         | 145.1 / 3685.5 |
| Overall Ratio                               | 16.3:1         |
| Steering Wheel Turns<br>(lock-to-lock)      | 3.1            |
| 18-in. Wheel Turning<br>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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