

# CANADA

## 2023 Dodge Challenger SRT Demon 170

### SPECIFICATIONS

*Specifications are based on the latest product information available at the time of publication.  
All dimensions are in millimetres (inches) unless otherwise noted.  
All dimensions measured at curb weight with standard tires and wheels.*

#### GENERAL INFORMATION

Body Style	Two-door coupe
Assembly Plant	Brampton, Ontario, Canada
EPA Vehicle Class	Intermediate car
Introduction Date	Third quarter as a 2023 model

#### BODY AND CHASSIS

Layout	Longitudinal front engine, rear-wheel drive (RWD)
Construction	Unitized steel body

#### ENGINE: SUPERCHARGED 6.2-LITRE HEMI HIGH OUTPUT D170

Availability	Standard on Challenger SRT Demon 170
Type and Description	90-degree V-type, liquid-cooled
Displacement	6,166 cu.cm (376 cu. in.)
Bore x Stroke	103.9 x 90.9 (4.09 x 3.58)
Valve System	Pushrod-operated overhead valve, 16 valves with sodium-filled exhausts and hollow stem nitride coated intakes, 16 hydraulic roller lifters
Fuel Injection	Sequential, multiport, electronic, returnless
Construction	Deep-skirt cast-iron block with cross-bolted billet steel main bearing caps and high strength bolts. Aluminum alloy heads with hemispherical combustion chambers, head attachment studs/ nuts and steel compression limiters in head.
Compression Ratio	9.5:1
Power (SAE net)	1,025 bhp (764 kW) @ 6,500 rpm with E-85 fuel 900 bhp (671 kW) @ 6,500 rpm with Premium 91 octane fuel
Torque (SAE net)	945 lb.-ft (1,281 N•m) @ 4,200 rpm with E-85 fuel 810 lb.-ft (1098 N•m) @ 4,200 with Premium 91 octane fuel
Max. Engine Speed	6,500 rpm

Fuel Requirement	E-85 ethanol fuel - required Premium 91 octane (R+M)/2 — required
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#### ENGINE: SUPERCHARGED 6.2-LITRE HEMI HIGH OUTPUT D170 (CONTINUED)

Oil Capacity	6.6 litres (7 quarts)
Factory Oil Fill	0W-40 Pennzoil Ultra™ synthetic
Coolant Capacity	13.25 litres (14 quarts)
Induction System	Combined air-flow rate of 1,582 CFM from: <ul style="list-style-type: none"> <li>• Air-Grabber hood – 45.2 square inches</li> <li>• Air Catcher headlamp</li> <li>• Air box opening near wheel liner</li> </ul>
Intercooler System	Separate low-temp cooling system with dual water-to-air intercoolers and a high-flow variable-speed electric water pump  SRT Power Chiller™ liquid to air intercooler chiller system is activated via radio button and redirects air conditioning refrigerant to chill the intercooler coolant  When engine is shut down: radio-selectable After-Run Chiller system turns on radiator fan and intercooler water pump to reduce intercooler coolant temperature
Emission Controls	Dual close-coupled three-way catalytic converters heated wide range upstream and switching downstream O2 sensors <sup>(a)</sup>
Exhaust Type	Dual 2.75-in. straight-through exhaust system with twin Electronic Exhaust Valves (EEV) with rectangular Black Vapor-chromed tips
Max. Gross Trailer Weight	Not rated for trailer-tow

#### TRANSMISSION: TORQUEFLITE 8HP90 EIGHT-SPEED AUTOMATIC

Availability	Standard
Description	Adaptive electronic control with full manual control via gear selector or paddle shifters, with three SRT-unique selectable modes: ECO, Street, and Drag (features TransBrake 2.0™, rev-matching, performance shifting and gear holding feature)
Torque converter	151k
Gear Ratios	
1st	4.71
2nd	3.14
3rd	2.10
4th	1.67

5th	1.29
6th	1.00

#### TRANSMISSION: TORQUEFLITE 8HP90 EIGHT-SPEED AUTOMATIC (CONTINUED)

7th	0.84
8th	0.67
Reverse	3.32
Final Drive Ratio	3.09 — Asymmetric-limited slip, performance-tuned
Overall Top Gear	2.07

#### ELECTRICAL SYSTEM

Alternator	220A
Battery	H7 Case, 730 CCA, maintenance-free

#### STEERING

Type	Electric power steering (EPS), rack and pinion with multi-mode electric assist
Overall Ratio	14.4:1 ratio
Turning Diameter (curb-to-curb)	11.6 m (38.04 ft.) (est.)
Steering Turns (lock-to-lock)	2.56

#### SUSPENSION

Front	Independent SLA with high upper “A” arm, coil spring over gas-charged ADS Bilstein shock absorbers and 28 mm hollow stabilizer bar, lateral and diagonal lower links
Rear	Five-link independent with coil springs, link-type 19 mm hollow stabilizer bar, gas-charged ADS Bilstein shock absorbers and isolated suspension cradle, unique knuckle with reduced camber
SRT Demon-tuned three-mode ADS suspension	<p>Auto (Street) mode = compliant ride (Compression/rebound - front and rear: soft/soft)</p> <p>Sport mode = sporty ride and improved handling (front and rear: soft/firm)</p> <p>Drag mode = maximum acceleration (front: firm/soft and rear: firm/firm)</p>

#### BRAKES

Brembo High-performance Brake Package	Standard
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Front	
Rotor size and type	360 x 32.0 (14.2 x 1.26) 2-piece, vented and slotted
Caliper size and type	44 (1.73) diameter Brembo four-piston fixed with aluminum housing
Swept area	2,261 sq. cm (351 sq. in.)

## **BRAKES (CONTINUED)**

Rear	
Rotor size and type	350 x 28 (13.8 x 1.10) vented and slotted
Caliper size and type	32 (1.26) diameter Brembo four-piston fixed with aluminum housing
Swept area	2,036 sq. cm (316 sq. in.)
Four-wheel Anti-lock Brake System (ABS) and Traction Control	Standard
Electronic Stability Control (ESC) and Brake Assist	Standard
Brake Knockback Mitigation	Standard
Hill-start Assist (HSA)	Standard
Three (Street, Drag, Off) -position ESC/Traction Control Mode Selection	Standard
Power-assist Type	203 + 209 (8 + 9) tandem-diaphragm vacuum booster

## **DIMENSIONS AND CAPACITIES<sup>(b)</sup>**

Wheelbase	2,950.4 (116.2)
Track, Front	1,610 (63.4) est.
Track, Rear	1,667.8 (65.7) est.
Overall Length	5,015.6 (197.5)
Overall Width (with mirrors)	2,178.7 (85.8)
Overall Width (without mirrors)	2,001.5 (78.8)
Overall Height	1,459 (57.4)
Ground Clearance	113.5 (4.5)
Drag Coefficient	0.366 Cd
Curb Weight	4,280 (4,268 with optional Carbon Fiber Wheels)
Weight Distribution, percent F/R	58/42
Fuel Tank Capacity, litres (U.S. gallons)	70.0 (18.5)

*(b) All dimensions measured at curb weight with standard tires.*

## ACCOMMODATIONS

Seating Capacity — F/R	1/0 – standard 2/0 – optional 2/3 – optional
Front	
Headroom	999 (39.3)
Legroom	1,067 (42.0)
Shoulder Room	1,485 (58.5)
Hip Room	1,404 (55.3)
Seat Travel	Driver — 255 (10.0) Passenger (optional) — 220 (8.7)
Recliner Angle Range	Driver — 64 degrees Passenger (optional) — 63 degrees
SAE Front Volume Index	1.58 cu. m (55.8 cu. ft.)
Rear (optional)	
Headroom	942 (37.1)
Legroom	840 (33.1)
Knee Clearance	4.4 (0.2)
Shoulder Room	1,368 (53.9)
Hip Room	1,215 (47.8)
SAE Rear Seat Volume Index	1.07 cu. (37.9 cu. ft.)
Total Interior Volume	2.67 cu. m (93.9 cu. ft.)
SAE Cargo Volume (above spare tire well)	0.459 cu. m (16.2 cu. ft.)
EPA Interior Volume Index	3.12 cu. m (110.136 cu. ft.)
Trunk Lift-over Height	855 (33.6)

## TIRES

Availability	Standard
Size and type	315/50R17 street-legal drag radials (rear); 245/55R18 (front)
Mfr. and model	Mickey Thompson Tires ET Street
Revs per km (mile)	Front – 438 (705) Rear – 450 (725)

## WHEELS

Availability	Standard
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Type and material	Forged Lightweight aluminum
Size	17 in x 11 in. (rear), 18 in. x 11 in. front
Availability	Optional
Type and material	Lightweight Carbon Fibre
Size	17 in x 11 in. (rear), 18 in. x 11 in. front

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