



2018 Dodge Challenger SRT Demon

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

Body Style	Two-door coupe
Assembly Plant	Brampton, Ontario, Canada
EPA Vehicle Class	Intermediate car
Introduction Date	Fourth quarter 2017 as a 2018 model

BODY AND CHASSIS

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

ENGINE: SUPERCHARGED 6.2-LITER HEMI DEMON V-8

Availability	Standard on Challenger SRT Demon
Type and Description	90-degree V-type, liquid-cooled
Displacement	370 cu. in. (6,166 cu.cm)
Bore x Stroke	4.09 x 3.58 (103.9 x 90.9)
Valve System	Pushrod-operated overhead valve, 16 valves with sodium-filled exhausts and hollow stem intakes, 16 hydraulic roller lifters
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 (estimated SAE net)	840 bhp @ 6,300 rpm (Direct Connection Performance Engine Controller and high-octane unleaded fuel) 808 bhp @ 6,300 rpm
Torque (estimated SAE net)	770 lb.-ft @ 4,500 rpm (Direct Connection Performance Engine Controller and high-octane unleaded fuel) 717 lb.-ft @ 4,500 rpm
Max. Engine Speed	6,500 rpm



Fuel Requirement	Premium 91 octane (R+M)/2 — required Direct Connection Performance Engine Controller: Unleaded 100 octane minimum (R+M)/2 — required
Oil Capacity	7 quarts (6.6 liters)
Factory Oil Fill	0W-40 Pennzoil Ultra™ synthetic
Coolant Capacity	14 quarts (13.25 liters)
Induction System	Combined air-flow rate of 1,150 CFM from: <ul style="list-style-type: none">• Air-Grabber hood – 45.2 square inches• Air Catcher headlamp• Air box opening near wheel liner
Intercooler System	Separate low-temp cooling system with dual water-to-air intercoolers and a high-flow variable-speed electric water pump In Drag Mode: SRT Power Chiller™ liquid to air intercooler chiller system is activated and redirects air conditioning refrigerant to chill the charger air cooler 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 O ₂ sensors ^(a)
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
EPA Fuel Economy mpg (city/hwy/cmb)	13 / 22 / 16

(a) Meets Federal Tier 2, Bin 5 emissions requirements; marketed in California as an LEV II (Low Emission Vehicle) under cleanest vehicle rules.

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: Street, Sport and Drag (features TransBrake™, 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
7 th	0.84
8 th	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)	38.04 ft.
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	Auto (Street) mode = compliant ride (Compression/rebound - front and rear: soft/soft)
	Sport mode = sporty ride and improved handling (front and rear: soft/firm)
	Drag mode = maximum weight transfer (front: firm/soft and rear: firm/firm)

BRAKES

Brembo High-performance Brake Package	Standard
Front	
Rotor size and type	14.2 x 1.26 (360 x 32.0) 2-piece, vented and slotted
Caliper size and type	1.73 (44) diameter Brembo four-piston fixed with aluminum housing
Swept area	351 sq. in. (2,261 sq. cm)
Rear	
Rotor size and type	13.8 x 1.10 (350 x 28) vented and slotted
Caliper size and type	1.26 (32) diameter Brembo four-piston fixed with aluminum housing
Swept area	316 sq. in. (2,036 sq. cm)
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	8 + 9 (203 + 209) tandem-diaphragm vacuum booster

DIMENSIONS AND CAPACITIES^(b)

Wheelbase	116.2 (2,950.4)
Track, Front	65.8 (1,671.4)
Track, Rear	65.7 (1,667.8)
Overall Length	197.5 (5,015.6)
Overall Width (with mirrors)	85.8 (2,178.7)
Overall Width (without mirrors)	78.8 (2,001.5)
Overall Height	57.4 (1,459)
Ground Clearance	4.5 (113.5)
Drag Coefficient	0.376 Cd
Curb Weight	4,280
Weight Distribution, percent F/R	58/42
Fuel Tank Capacity, gallons (liters)	18.5 (70.0)

(c) 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	39.3 (999)
Legroom	42.0 (1,067)
Shoulder Room	58.5 (1,485)
Hip Room	55.3 (1,404)
Seat Travel	Driver — 10.0 (255)
	Passenger (optional) — 8.7 (220)
Recliner Angle Range	Driver — 64 degrees
	Passenger (optional) — 63 degrees
SAE Front Volume Index	55.8 cu. ft. (1.58 cu. m)
Rear (optional)	
Headroom	37.1 (942)
Legroom	33.1 (840)
Knee Clearance	0.2 (4.4)
Shoulder Room	53.9 (1,368)



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Hip Room	47.8 (1,215)
SAE Rear Seat Volume Index	37.9 cu. ft. (1.07 cu. m)
Total Interior Volume	93.9 cu. ft. (2.67 cu. m)
SAE Cargo Volume (above spare tire well)	16.2 cu. ft. (0.459 cu. m)
EPA Interior Volume Index	110.136 cu. ft. (3.12 cu. m)
Trunk Lift-over Height	33.2 (845)

TIRES

Availability	Standard
Size and type	315/40R18 street-legal drag radials
Mfr. and model	Demon-branded Nitto NT05R (exclusive tire construction and compound)
Revs per mile (km)	742 (461)

WHEELS

Availability	Standard
Type and material	Lightweight aluminum
Size	18 in. x 11 in.

