

2009 DODGE CHALLENGER VEHICLE 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	Coupe
Assembly Plant	Brampton, Ontario, Canada
EPA Vehicle Class	Intermediate Car
Introduction Date	SRT8 [®] — April 2008 as a 2008 model SE and R/T — September 2008

Engine: 3.5-liter High Output SOHC 24-valve V-6

Availability	SE
Type and Description	60-degree bank angle, liquid-cooled, three-plenum intake manifold with electronic short-runner valves
Displacement	214.7 cu. in. (3518 cu. cm)
Bore x Stroke	3.78 x 3.19 (96 x 81)
Valve System	SOHC, 24-valve, hydraulic, center pivot roller rocker arms
Fuel Injection	Sequential, multi-port, electronic
Construction	Precision sand-cast-mold aluminum block with cast-in-iron liners, cross-bolted main bearing caps and cast-aluminum heads
Compression Ratio	10.0:1
Power (estimated SAE net)	250 hp (186 kW) @ 6400 rpm (71.1 hp/L)
Torque (SAE net, estimated)	250 lb.-ft. (339 N•m) @ 3800 rpm
Maximum Engine Speed	6800 rpm (electronically limited)
Fuel Requirement	Recommended: unleaded mid-grade, 89 octane (R+M)/2 Acceptable: unleaded regular, 87 octane (R+M)/2
Oil Capacity	6 qt. (5.7-L) with dry filter
Coolant Capacity	10.8 qt. (10.2-L)
Emission Controls	Dual close-coupled three-way catalytic converters, quad heated oxygen sensors and internal engine features ^a
Maximum Gross Trailer Weight	1000 lbs. (453.6 kg)
Estimated EPA Fuel Economy, mpg (city/hwy)	17/25

Engine: 5.7-liter HEMI[®] V-8

Availability	R/T
Type and Description.....	90-degree V-type, liquid-cooled with variable-valve timing (VVT)
Displacement	345 cu. in. (5654 cu. cm)
Bore x Stroke	3.92 x 3.58 (99.5 x 90.9)
Valve System	16 pushrod-operated overhead valves, with VVT, conventional hydraulic lifters, all with roller followers
Fuel Injection	Sequential, multi-port, 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

For Automatic Transmission

Power (SAE net)	372 hp (277 kW) @ 5200 rpm (58.1 hp/L)
Torque (SAE net).....	401 lb.-ft. (544 N•m) @ 4400 rpm
Fuel Requirement.....	Recommended: unleaded mid-grade, 89 octane (R+M)/2 Acceptable: unleaded regular, 87 octane (R+M)/2

For Manual Transmission

Power (SAE net)	376 hp (280 kW) @ 5150 rpm
Torque (SAE net).....	410 lb.-ft. (556 N•m) @ 4300 rpm
Fuel Requirement.....	Recommended: unleaded premium, 91 octane (R+M)/2 Acceptable: unleaded regular, 87 octane (R+M)/2
Maximum Engine Speed.....	5800 rpm (electronically limited)
Oil Capacity	7 qt. (6.6-L)
Coolant Capacity.....	14.7 qt. (13.9-L)
Emission Controls.....	Dual close-coupled three-way catalytic converters, quad heated oxygen sensors and internal engine features ^b
Maximum Gross Trailer Weight.....	1000 lbs. (453.6 kg) automatic (not recommended with manual)
Estimated EPA Fuel Economy, mpg (city/hwy)	16/25 automatic 16/25 manual

Engine: 6.1-liter HEMI V-8

Availability	SRT8
Type and Description.....	90-degree V-type, liquid-cooled
Displacement	370 cu. in. (6059 cu. cm)

Bore x Stroke	4.05 x 3.58 (103.0 x 90.9)
Valve System	16 pushrod-operated overhead valves, conventional hydraulic lifters, all with roller followers
Fuel Injection	Sequential, multi-port, electronic, returnless
Construction.....	Deep-skirt cast-iron block with cross-bolted main bearing caps, aluminum alloy heads with hemispherical combustion chambers
Compression Ratio.....	10.3:1
Power (estimated SAE net).....	425 hp (317 kW) @ 6200 rpm (69.8 hp/L)
Torque (estimated SAE net).....	420 lb.-ft. (569 N•m) @ 4800 rpm
Maximum Engine Speed.....	6400 rpm (electronically limited)
Fuel Requirement.....	Recommended: unleaded premium, 91 octane (R+M)/2
Oil Capacity	7 qt. (6.6-L)
Coolant Capacity.....	14 qt. (13.25-L)
Emission Controls.....	Dual close-coupled three-way catalytic converters; quad heated oxygen sensors and internal engine features ^c
Maximum Gross Trailer Weight.....	Not recommended
Estimated EPA Fuel Economy, mpg (city/hwy).....	13/19 automatic 14/22 manual

Transmission: Automatic, Four-speed Overdrive (42RLE)

Availability	3.5-L SE
Description.....	Three planetary gear sets, one overrunning clutch, full electronic control, electronically controlled torque converter clutch

Gear Ratios

1st.....	2.84
2nd.....	1.57
3rd	1.00
4th	0.69
Reverse.....	2.21
Final Drive Ratio.....	3.64
Overall Top Gear Ratio	2.51

Transmission: Automatic, Five-speed Overdrive

Availability	5.7-L R/T and 6.1-L SRT8
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Description.....Adaptive electronic control with Auto Stick driver-interactive manual control and electronically modulated torque converter clutch

Gear Ratios

1st.....3.59

2nd.....2.19

3rd1.41

4th1.00

5th0.83

Reverse.....3.16

Final Drive Ratio.....3.06 — 5.7-L
 3.06 — 6.1-L
 Getrag axle with limited-slip differential (6.1-L only)

Overall Top Gear.....2.54 — 5.7-L
 2.54 — 6.1-L
 Getrag axle with limited-slip differential (6.1-L only)

Transmission: Six-speed Manual Tremec TR-6060 Transmission Clutch: ZF-Sachs 250 mm Twin Disc

AvailabilityOptional — 5.7-L R/T and 6.1-L SRT8

Description.....Triple cone / double cone synchronizer design, 1–4 skip shift and reverse inhibit solenoids, 5:1 remote shifter

Gear Ratios

1st.....2.97

2nd.....2.10

3rd1.46

4th1.00

5th0.74

6th0.50

Reverse.....2.90

Final Drive Ratio.....3.73 — 5.7-L with 18-inch wheels
 3.91 — 5.7-L with 20-inch wheels
 3.91 — 6.1-L
 Getrag axle with limited-slip differential (5.7-L and 6.1-L)

Electrical System

Alternator.....160A

Battery.....H7 Case, 625 CCA, maintenance-free

Dimensions and Capacities^d

Wheelbase.....116.0 (2946)

Track, Front63.0 (1603)

Track, Rear63.1 (1604)

Overall Length197.7 (5023)

Overall Width75.7 (1923)

Overall Height.....57.1 (1449)

Ground ClearanceSRT8 @ curb 4.8 (122.2)
R/T and SE @ curb 5.5 (145.2)

Frontal Area25.3 sq. ft. (2.35 sq. m)

Drag CoefficientSE with 17-inch and 18-inch tires — 0.350 (8.86 CdA)
R/T with 18-inch tires — 0.350 (8.73 CdA);
with 20-inch tires — 0.355 (8.98 CdA)
SRT8 — 0.353 (9.01 CdA)

Curb Weight (estimated) with automatic transmissionSE — 3819 lbs. (1688 kg)
R/T — 4041 lbs. (1833 kg)
SRT8 — 4140 lbs. (1892 kg)

Weight Distribution (percent front/rear)SE — 53.5/46.5
R/T — 54.6/45.4
SRT8 — 55.6/44.4

Fuel Tank CapacitySE — 18.5 gal. (70-L)
R/T and SRT8 — 19 gal. (71.9-L)

Accommodations

Seating Capacity (front/rear).....2/3

Front

Head Room39.3 (999)

Leg Room.....42.0 (1067)

Shoulder Room58.2 (1477)

Hip Room.....54.6 (1387)

Seat TravelDriver — 10.6 (270)
Passenger — 8.7 (220)

Recliner Angle RangeDriver — 64 deg.
Passenger — 63 deg.

SAE Front Volume Index.....55.8 cu. ft. (1.58 cu. m)

Rear

Head Room	37.2 (950)
Leg Room.....	32.6 (829)
Knee Clearance	1.2 (31.1)
Shoulder Room	53.9 (1368)
Hip Room.....	48.6 (1236)
SAE Rear Seat Volume Index.....	38.1 cu. ft. (1.08 cu. m)
Total Interior Volume	91.5 cu. ft. (2.59 cu. m)
SAE Cargo Volume (same as Charger)	16.2 cu. ft. (0.459 cu. m)
EPA Interior Volume Index	107.7 cu. ft. (3.05 cu. m)
Trunk Lifterover Height.....	33.0 (839)

Body

Layout.....	Longitudinal front engine, rear-wheel drive
Construction.....	Unitized steel body

Exhaust

Type	SE — Single exhaust R/T and SRT8 — Dual exhaust with rectangular bright tip and image sound
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Steering

Type	Rack and pinion with hydraulic power assist
Overall Ratio.....	16.1:1
Turning Diameter (curb-to-curb)	SE and R/T — 38.9 ft. (11.9 m) SRT8 — 37.5 ft. (11.48 m)
Steering Turns (lock-to-lock).....	2.75
P/S Pump	Fixed displacement, speed-sensitive — Standard on automatic transmissions and SRT8 manual transmission Variable Displacement — R/T manual transmission only

Suspension

SE and R/T

Front.....	Independent SLA with high upper “A” arm, coil spring over gas- charged shock absorbers and stabilizer bar; lateral and diagonal lower links
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Rear.....Five-link independent with coil springs, link-type stabilizer bar, gas-charged twin tube shock absorbers and isolated suspension cradle

SRT8

Front.....Independent SLA with high upper “A” arm, coil spring over Bilstein monotube gas-charged shock absorbers and stabilizer bar; lateral and diagonal lower links

Rear.....Five-link independent with coil springs, link-type stabilizer bar, Bilstein monotube gas-charged shock absorbers and isolated suspension cradle

Tires^e

SE

AvailabilityStandard

Size and Type.....P215/65R17 98T black sidewall all-season ride

Manufacturer and Model.....Goodyear Integrity

Revs per Mile (km)739 (459)

AvailabilityStandard with Popular Equipment Package

Size and Type.....P225/60R18H 99H all-season touring

Manufacturer and Model.....Continental ProContact

Revs per Mile (km)729 (453)

R/T

AvailabilityStandard

Size and Type.....P235/55R18V 99V black sidewall all-season performance

Manufacturer and Model.....Michelin MXM4

Revs per Mile (km)729 (453)

AvailabilityOptional

Size and Type.....P245/45ZR20 99V black sidewall all-season performance

Manufacturer and Model.....Goodyear Eagle RSA

Revs per Mile (km)731 (456)

SRT8

AvailabilityStandard

Size and Type.....P245/45ZR20 all-season performance

Manufacturer and Model.....Goodyear RSA

Revs per Mile (km)731 (456)

AvailabilityOptional

Size and Type.....Front — P245/45ZR20
Rear — P255/45ZR20 three-season tires

Manufacturer and Model.....Goodyear F1 Supercar

Revs per Mile (km)Front — 726 (450)
Rear — 718 (445)

Wheels

SE

AvailabilityStandard

Type and Material.....Aluminum

Size17 x 7.0

AvailabilityStandard with Popular Equipment Package

Type and Material.....Cast aluminum

Size18 x 7.5

R/T

AvailabilityStandard

Type and Material.....Cast aluminum

Size18 x 7.5

AvailabilityOptional

Type and Material.....Cast aluminum

Size 20 x 8.0

SRT8

AvailabilityStandard

Type and Material.....Fully forged aluminum

Size20 x 9.0

Brakes

SE

Front

Rotor Size and Type.....12.6 x 1.1 (320 x 28) vented

Caliper Size and Type2.365 (60) single piston sliding with aluminum housing
Swept Area254.8 sq. in. (1644 sq. cm)

Rear

Rotor Size and Type12.6 x 0.4 (320 x 10) solid
Caliper Size and Type1.65 (42) single piston sliding with aluminum housing
Swept Area260.4 sq. in. (1680 sq. cm)

Four-Wheel Anti-Lock.....Standard with Popular Equipment Package

All-speed Traction Control and Brake AssistStandard with Popular Equipment Package

Electronic Stability Program.....Standard with Popular Equipment Package

R/T

Front

Rotor Size and Type13.6 x 1.1 (345 x 28) vented
Caliper Size and Type1.65 (42) dual piston sliding with aluminum housing
Swept Area292 sq. in. (1884 sq. cm)

Rear

Rotor Size and Type12.6 x 0.4 (320 x 22) vented
Caliper Size and Type1.65 (42) single piston sliding with aluminum housing
Swept Area260.4 sq. in. (1680 sq. cm)

Four-Wheel Anti-Lock.....Standard

All-speed Traction Control and Brake AssistStandard

Electronic Stability Program.....Standard

Hill Start Assist.....Standard with manual transmission

Power Assist Type8 + 9 (203 + 209) tandem diaphragm vacuum

SRT8

Front

Rotor Size and Type14.2 x 1.26 (360 x 32.0) vented and slotted
Caliper Size and Type1.73 (44) Brembo four-piston fixed with aluminum housing
Swept Area351 sq. in. (2261 sq. cm)

Rear

Rotor Size and Type.....	13.8 x 1.10 (350 x 28) vented
Caliper Size and Type	11.26 (32) Brembo four-piston fixed with aluminum housing
Swept Area.....	316 sq. in. (2036 sq. cm)
Four-Wheel Anti-Lock.....	Standard
All-speed Traction Control and Brake Assist	Standard
Electronic Stability Program and Brake Knockback Mitigation.....	Standard
Hill Start Assist.....	Standard with manual transmission
Power Assist Type	8 + 9 (203 + 209) tandem-diaphragm vacuum booster

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

^b Manual transmission meets Federal Tier 2, Bin 5 emissions requirements; marketed in California as an LEVII (Low Emission Vehicle) under cleanest vehicle rules. Automatic transmission meets Federal Tier 2, Bin 4 emissions requirements; marketed in California as an ULEVII (Ultra Low Emission Vehicle) under cleanest vehicle rules.

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

^d All dimensions measured at curb weight with standard tires.

^e Other sizes and brands may also be used.