SPECIFICATIONS

2008 Dodge Avenger Specifications

Dimensions are in inches (millimeters) at curb weight with standard wheels and tires unless otherwise noted.

GENERAL INFORMATION

Body Style	Four-door sedan
Assembly Plant	Sterling Heights Assembly, Michigan
EPA Vehicle Class	Midsize

ENGINE: 2.4-LITER, GASOLINE, DOHC, 16-VALVE, VVT, SMPI I4

Availability	Standard Avenger SE and SXT
Type and Description	Four cylinders in line, tuned intake manifold with Electronic Active Charge Motion Control valves dual counter-rotating balance shafts
Displacement	144 cu. in. (2360 cu cm)
Bore x Stroke	3.46 x 3.82 (88 x 97)
Valve System	Chain-driven DOHC, 16 valves, electronically controlled dual Variable Valve Timing, direct-acting shimless mechanical bucket tappets
Fuel Injection	Sequential, multi-port, electronic, returnless
Construction	High-pressure die cast aluminum block with dry iron liners, Cast-aluminum cylinder heads, cast-aluminum ladder frame, Forged steel crankshaft
Compression Ratio	10.5:1
Power (SAE net, estimated)	173 bhp (129 kW) @ 6,000 rpm (71 bhp/liter)
Torque (SAE net, estimated)	166 lb.-ft. (225 N•m) @ 4400 rpm
Max. Engine Speed	6,500 rpm (electronically limited)
Fuel Requirement	Unleaded regular, 87 octane (R+M)/2
Oil Capacity	5.0 qt. (4.7L) SAE 5W-20
Coolant Capacity	7.2 qt. (6.8L)
Emission Controls	Single catalytic converter, FWD, Dual heated oxygen sensors and engine features
Smog-Forming Pollution	0.9 g/mile (0.56 g/km)[1]
Estimated EPA fuel economy	21/30 based on 2008 EPA standards 24/32 based on 2007 EPA standards

[1] Meets Federal Tier 2, Bin 5 emission requirements and Clean Fuel Fleet emissions requirements in designated U.S. metropolitan communities. NMOG + NOx emission limits under ULEV II for California, Massachusetts, New York, Maine and Vermont. Meets Euro IV emissions requirements. Meets Euro IV emissions requirements.

ENGINE: 2.7-LITER, GASOLINE, SOHC, 12-VALVE, SMPI V6

Availability	Optional on Avenger SXT
Type and Description	60-degree, liquid-cooled, dual-tuned intake manifold with electronically controlled manifold tuning valve
Displacement	167 cu. in. (2,736 cu cm)
Bore x Stroke	3.38 x 3.09 (86 x 78.5)
Valve System	DOHC, 24 valves, hydraulic end-pivot roller followers
Fuel Injection	Sequential, multi-port, electronic
Construction	Semi-permanent mold aluminum block with cast-in iron liners, cast-aluminum heads
Compression Ratio	9.9:1
Power (SAE net, estimated)	189 bhp (141 kW) @ 6,400 rpm (70.4 bhp/liter)
Torque (SAE net, estimated)	191 lb.-ft. (259 N•m) @ 4,000 rpm
Max. Engine Speed	6,464 rpm (electronically limited)
Fuel Requirement	FFV: Unleaded regular, 87 octane (R+M)/2 or E-85[2]
Oil Capacity	6 qt. (5.7 L) with dry filter SAE 5W-20
Coolant Capacity	9.5 qt. (9L)
Emission Controls	Dual close-coupled 3-way catalytic converters, Quad heated oxygen sensors and internal engine features[3]
Estimated EPA fuel economy	19/27 based on 2008 EPA standards 22/30 based on 2007 EPA standards

[2] E-85 fuel is a blend containing 85 percent fuel-grade ethanol and 15 percent gasoline that is available primarily in farm-belt states. Federal FFV (Flexible Fuel Vehicle) can operate on both unleaded gasoline or E-85 fuel, or any mixture of these fuels.

[3] Meets Tier 2, Bin 8 emission requirements and Clean Fuel Fleet (CFF) emissions requirements using MS-8004 fuel commonly referred to as Indolene in designated U.S. metropolitan communities. California vehicles meet Tier 2, Bin 5 and LEV II requirements for California, Massachusetts, New York, Maine and Vermont. Meets Euro IV emissions requirements.

ENGINE: 3.5-LITER, GASOLINE, SOHC, 24-VALVE, SMPI V6

Availability	Standard Avenger R/T and Avenger R/T AWD
Type and Description	60-degree bank angle, liquid-cooled, three-plenum intake manifold with electronically controlled manifold tuning valve and short-runner valves
Displacement	3,518 cu. cm
Bore x Stroke	96 x 81
Valve System	SOHC, 24 valves, hydraulic, center-pivot roller rocker arms
Fuel Injection	Sequential, multi-port, electronic
Construction	Semi-permanent mold aluminum block with cast-in iron liners and cast aluminum heads
Compression Ratio	10.0:1
Power (SAE net, estimated)	235 bhp (175 kW) @ 6400 rpm (71.4 bhp/liter)
Torque (SAE net, estimated)	232 lb.-ft./315- N•m @ 4000 rpm
Max. Engine Speed	6800 rpm (electronically limited)
Fuel Requirement	Unleaded mid-grade, 89 octane (R+M)/2 - preferred, unleaded regular, 87 octane (R+M)/2 - acceptable
Oil Capacity	5.7 L with dry filter SAE 5W-20
Coolant Capacity	9.75 L
Emission Controls	Three-way catalytic converter, electronic EGR, and internal engine features[4]

Estimated EPA fuel economy*

FWD	16/26 based on 2008 EPA standards 19/28 based on 2007 EPA standards
AWD	17/26 based on 2007 EPA standards

*Estimates based on 2008 standards not available at press time

[4] Meets Federal Tier 2, Bin 5 emission requirements and Clean Fuel Fleet (CFF) emissions requirements using MS-8004 fuel commonly referred to as Indolene in designated U.S. metropolitan communities. NMOG + NOx emission limits under ULEV II for California, Massachusetts, New York, Maine and Vermont. FWD Meets Euro IV emissions requirements.

TRANSAXLE: 40TES, AUTOMATIC FOUR-SPEED OVERDRIVE

Availability	Standard with 2.4L engine
Description	4-speed overdrive, adaptive electronic control, electronically modulated converter clutch

Gear Ratios

1st	2.842
2nd	1.57
3rd	1.0
4th	0.69
Reverse	2.21
Final Drive Ratio	3.91with 2.4L engine
Overall Top Gear	2.70 with 2.4L engine

TRANSAXLE: 41TES, Automatic Four-Speed Overdrive

Availability	Standard with 2.7L engine
Description	4-speed overdrive, adaptive electronic control, electronically modulated converter clutch

Gear Ratios

1st	2.842
2nd	1.57
3rd	1.0
4th	0.69
Reverse	2.21
Final Drive Ratio	3.91
Overall Top Gear	2.70

TRANSAXLE: 62TE, AUTOMATIC SIX-SPEED OVERDRIVE

Availability	Standard with 3.5L engine
Description	Six-speed, adaptive electronic control or Auto Stick driver-interactive manual control and electronically modulated torque converter clutch
Gear Ratios	
1st	4.127
2nd	2.842
3rd	2.283
4th	Upshift – 1.452, WOT kickdown – 1.570
5th	1.00
6th	0.690
Reverse	3.214
Transfer Ratio	0.95
Final Drive Ratio	3.430
Overall Top Gear	2.248

DRIVETRAIN

Front-Wheel Drive	
Availability	Standard with all engines
All-Wheel Drive	
Availability	Optional in U.S. (late availability)
Type	Electronically Controlled Coupling (ECC) with variable torque output
Rear Differential	Open

DIMENSIONS AND CAPACITIES

General	
Wheelbase	108.9 (2765.0)
Track, Front	61.8 (1569.7)
Track, Rear	61.8 (1569.7)
Overall Length	190.9 (4848.5)
Overall Width	71.8 (1824.2)
Overall Height	58.9 (1496.4)
Aero	
CdA	8.2
Cd	0.326

DIMENSIONS AND CAPACITIES (Continued)

Fuel Tank Capacity, gal. (L)	FWD - 16.9 (64.0)
	AWD - 17.3 (65.5)
Towing Capabilities	
2.4L Auto. Trans.	1000 (450)
2.7L Auto. Trans.	2000 (900)
3.5L Auto. Trans.	2000 (900)
Curb Weight, wet (lbs. kg)	
2.4L Gasoline Engine	Avenger SE, Auto. Trans. FWD - 3355 (1522)
	Avenger SXT, Auto. Trans. FWD - 3405 (1545)
2.7L Gasoline Engine	Avenger SXT, Auto. Trans. FWD - 3465 (1572)
3.5L Gasoline Engine	Avenger R/T, Auto. Trans. FWD - 3568 (1618)
	Avenger R/T, Auto. Trans. AWD - 3738 (1696)

ACCOMMODATIONS

Seating Capacity - F/R	2/3
EPA Total Interior Passenger Volume, cu. ft. (cu. M)	100.9 (2.857)
Front	
Head Room w/o Sunroof	40.0 (1016.9)
Head Room w/Sunroof	37.9 (963.4)
Leg Room	42.4 (1077.1)
Shoulder Room	56.4 (1432.8)
Hip Room	53.2 (1352.4)
Seat Travel	10.32 (260)
EPA Front Compartment Volume, cu. ft. (cu. M)	55.3 (1.57)
Rear	
Head Room w/o Sunroof	38.3 (972.3)
Head Room w/Sunroof	38.3 (972.3)
Leg Room	36.5 (926.8)
Shoulder Room	56.3 (1430.2)
Hip Room	53.2 (1351.0)
Knee Clearance	2.9 (74.1)
EPA Rear Compartment Volume, cu. ft. (cu. M)	45.55 (1.29)
Cargo	
Liftover Height	30.8 (781.9)
SAE Luggage Compartment Volume, cu. ft. (cu. M)	13.35 (0.368)

BODY/CHASSIS

Layout	Transverse front engine, front-wheel drive or all-wheel drive
Construction	Steel Unibody

SUSPENSION

Front	Independent MacPherson strut, coil spring over gas-charged shock absorbers, stabilizer bar with isolated suspension cradle
Rear	Multi-link independent with coil springs, link-type stabilizer bar, gas-charged shock absorbers and isolated rear suspension cradle

STEERING

Type	Speed-proportional, Power Rack and Pinion
Overall Ratio	16.5:1
Turning Diameter (curb-to-curb)	36.5 ft. (11.13)
Steering Turns (lock-to-lock)	3.3

BRAKES

Power Assist Type	All - 8 x 9 (204 x 230) Tandem-diaphragm vacuum
Availability	Standard on Avenger SE
Front	
Size and Type	11.5 x 1.0 (294 x 26) Vented Rotors With 2.2 (57.0) single-piston floating caliper
Swept Area (total front)	223.5 sq. in. (1442.1 sq. cm)
Rear	
Size and Type	9.0 x 0.8 (229 x 35) Machined Drums
Swept Area (total rear)	78.1 sq. in. (503.6 sq. cm)
Parking Brake Type	Drum

BRAKES (Continued)

Availability _____ Standard on Avenger SXT with I4 engine
Optional on Avenger SE

Front

Size and Type _____ 11.5 x 1.0 (294 x 26) Vented Rotors
with 2.2 (57.0) single-piston floating caliper

Swept Area (total front) _____ 223.5 sq. in. (1442.1 sq. cm)

Rear

Size and Type _____ 9.0 x 0.8 (229 x 35) Machined Drums

Swept Area (total rear) _____ 78.1 sq. in. (503.6 sq. cm)

Parking Brake Type _____ Drum

Front Disc, Rear Drum Anti-lock (ABS)

Availability _____ Standard on Avenger SXT; Optional on Avenger SE

Front

Size and Type _____ 11.5 x 1.0 (294 x 26) Vented Rotors
with 2.2 (57.0) single-piston floating caliper

Swept Area (total front) _____ 223.5 sq. in. (1442.1 sq. cm)

Rear

Size and Type _____ 10.3 x 1.39 (262 x 10) solid rotor
with 1.4 (35.0) single-piston floating caliper

Swept Area (total rear) _____ 138.6 sq. in. (894.6 sq. cm)

Parking Brake Type _____ Drum-in-hat

Four-wheel Anti-Lock (ABS)

Availability _____ Standard R/T FWD; Optional on Avenger SXT

Front

Size and Type _____ 11.5 x 1.0 (294 x 26) Vented Rotors
with 2.2 (57.0) single-piston floating caliper

Swept Area (total front) _____ 223.5 sq. in. (1442.1 sq. cm)

Rear

Size and Type _____ 10.3 x 1.39 (262 x 10) Solid Rotor
with 1.4 (35.0) single-piston floating caliper

Swept Area (total rear) _____ 138.6 sq. in. (894.6 sq. cm)

Parking Brake Type _____ Drum-in-hat

Electronic Stability Program (ESP) _____ Optional

BRAKES (Continued)

Availability	Standard on Avenger R/T AWD
Front	
Size and Type	11.5 x 1.0 (294 x 26) Vented Rotors With 2.2 (57.0) single-piston floating caliper
Swept Area (total front)	223.5 sq. in. (1442.1 sq. cm)
Rear	
Size and Type	11.88 x 0.4 (302 x 10) Solid rotor With 1.4 (35.0) single-piston floating caliper
Swept Area (total rear)	223.2 sq. in. (1440 sq. cm)
Parking Brake Type	Drum-in-hat
Four-wheel Anti-Lock (ABS)	Standard
Electronic Stability Program (ESP)	Standard
Traction Control	Standard

WHEELS

Availability	Standard on Avenger SE
Type and Material	Steel Painted with Sparkle Silver Wheelcover
Size	16 x 6.5

Availability	Standard on Avenger SXT
Type and Material	Machined and Painted Cast Aluminum, Sparkle Silver
Size	17 x 6.5

Availability	Standard on Avenger R/T, Optional on Avenger SXT
Type and Material	Machined and Painted Cast Aluminum, Burnished w/Sparkle Silver
Size	18 x 7.0

Availability	Optional on Avenger R/T
Type and Material	Chrome-clad Cast Aluminum
Size	18 x 7.0

TIRES

Availability	Avenger SE
Size and Type	P215/65R16, All Season
Model	Firestone FR690
Revs/Mile (Km)	774 (1254.6)

Availability	Standard on Avenger SXT; Optional on Avenger SE
Size and Type	P215/60R17, All-season Touring
Model	Bridgestone Turanza EL400
Revs/Mile (Km)	772 (1242.4)

Availability	Optional on Avenger SXT
Size and Type	P215/55R18, All-season Touring
Model	Bridgestone Turanza EL400
Revs/Mile (Km)	763 (1227.9)

Availability	Standard on Avenger R/T
Size and Type	P215/55R18, All-season Performance
Model	Bridgestone Potenza RE92A
Revs/Mile (Km)	763 (1227.9)