



Alfa Romeo

2020 Alfa Romeo Giulia SPECIFICATIONS

All dimensions are in inches (millimeters) unless otherwise noted.
Information shown is correct at time of publication and is subject to change.

GENERAL INFORMATION

Vehicle Type	Mid-size sedan, RWD/AWD
Assembly Plant	Cassino Assembly Plant, Cassino, Italy
EPA Vehicle Class	Mid-size car

BODY/CHASSIS

Layout	Longitudinal front engine, RWD/AWD
Construction	Unitized high-strength steel body
	Aluminum front and rear vehicle frames, front shock towers, brakes, suspension components, doors and fenders
	Composite rear cross member
	Carbon fiber driveshaft
	Aluminum roof and hood (Giulia and Ti)
	Carbon fiber roof and hood (Quadrifoglio exclusive)

ENGINE: ALL-ALUMINUM 2.0-LITER TURBOCHARGED 4-CYLINDER 280HP

Availability	Standard on Giulia and Giulia Ti
Type and Description	Inline-four, direct injection, turbo
Displacement	121.7 cu. in. (1,993 cc)
Bore x Stroke	3.31 x 3.54 (84.0 x 89.9)
Valve System	MultiAir2, SOHC, four valves per cylinder with silent chain driven timing drive
	Hollow assembled exhaust camshaft with end pivot roller finger followers and hydraulic lash adjusters
Turbocharger	Direct mount twin-scroll turbocharger with electric wastegate actuation. Intake manifold with liquid cooled charge air cooler.
Fuel Injection	Gasoline direct injection with injector centrally located in the combustion chamber
	Max injection pressure 2,900 psi



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Construction	Cylinder head: permanent mold air quenched cast aluminum alloy with integrated exhaust manifold
	Crankcase: precision and cast aluminum alloy with casted steel liners
	Crankshaft: super-finished forged nitride steel with journals offset from cylinder bore centerline
	Piston: forged aluminum cooled with pressure actuated oil jets
Power (SAE net)	280 hp (209 kW) @ 5,200 rpm (140 hp/liter)
Torque (SAE net)	306 lb.-ft. (415 N•m) @ 2,000 - 4,800 rpm
Redline on the Instrument Cluster	5,500 rpm
Max. Engine Speed	6,200 rpm
Fuel Requirement	Premium unleaded, 91 octane (R+M)/2
EPA Fuel Economy mpg (city/hwy/combined)	24/33/27 (RWD)
	23/31/26 (AWD)
Engine Assembly Plant	Termoli, Italy

ENGINE: ALL-ALUMINUM 2.9-LITER TWIN-TURBOCHARGED V-6 505HP RWD

Availability	Giulia Quadrifoglio
Type and Description	V-6, 90-degree, direct injection
Displacement	176.4 cu. in. (2,891 cm ³)
Bore x Stroke	3.40 x 3.23 (86.5 x 82.0)
Valve System	Chain-driven DOHC with intake and exhaust continuous camshaft phasing
	Four valves per cylinder roller finger actuated with hydraulic lash adjusters
	Mechanical cylinder deactivation on right bank
Turbochargers	Integrated IHI single-scroll turbo manifold with water charge air cooler
Fuel Injection	Port fuel injection and side mounted gasoline direct injection
	Max injection pressure 3,600 psi



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Construction	Cylinder head and cover: aluminum alloy with integrated cam carrier
	Crankcase: closed deck aluminum alloy with wet steel liner
	Bedplate: aluminum alloy with integrated blow-by control reed valves
	Crankshaft: super-finished forged nitride steel with single con-rod pin
	Piston: forged aluminum cooled with twin oil jets
Compression Ratio	9.3:1
Power (SAE net)	505 hp (377 kW) @ 6,500 rpm (175 hp/liter)
Torque (SAE net)	443 lb.-ft. (600 N•m) @ 2500-5500 rpm
Redline on the Instrument Cluster	6,500 rpm
Max. Engine Speed	7,400 rpm
Fuel Requirement	Premium unleaded, 91 octane (R+M)/2
EPA Fuel Economy mpg (city/hwy/combined)	17/25/20
Engine Assembly Plant	Termoli, Italy

TRANSMISSION: 8HP50 EIGHT-SPEED AUTOMATIC

Availability	Giulia and Giulia Ti
Gearbox type	AT8
Gearbox family	8HP50
Gear Ratios	
1st	5.00
2nd	3.20
3rd	2.14
4th	1.72
5th	1.31
6th	1.00
7th	0.82
8th	0.64
Transmission Type	RWD/AWD
Final Drive Ratio	3.15



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TRANSMISSION: 8HP75 EIGHT-SPEED AUTOMATIC

Availability	Giulia Quadrifoglio
Gearbox type	AT8
Gearbox family	8HP75
Gear Ratios	
1st	5.00
2nd	3.20
3rd	2.14
4th	1.72
5th	1.31
6th	1.00
7th	0.82
8th	0.64
Transmission Type	RWD
Final Drive Ratio	3.09

SUSPENSION

Front	Double wishbone with semi-virtual steering axle
Rear	Alfa Link design with vertical rod link (patented design)
Active Damping	Standard on Giulia Quadrifoglio Included with Performance packages on Giulia Ti

STEERING

Type	Rack and pinion with Variable Electric Assist
Ratio	11.8:1

BRAKES

Standard brake system	Standard on Giulia and Giulia Ti
Front	
Rotor size and type	13.0 x 1.1 (330 x 28)
Caliper size and type	Brembo four-piston calipers
Rear	
Rotor size and type	12.5 x 0.86 (320 x 22)
Caliper size and type	Single-piston calipers



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High-performance Brembo brake system	Standard on Giulia Quadrifoglio
Front	
Rotor size and type	14.2 x 1.26 (360 x 32) vented
Caliper size and type	Brembo six-piston aluminum-monoblock calipers
Rear	
Rotor size and type	13.8 in x 1.1 (350 x 28) vented
Caliper size and type	Brembo four-piston aluminum-monoblock calipers
Ultra-high-performance Brembo Carbon Ceramic Material (CCM) brake system	Optional on Giulia Quadrifoglio
Front	
Rotor size and type	15.4 x 1.3 (390 x 36) two-piece, vented carbon ceramic matrix
Caliper size and type	Brembo six-piston aluminum-monoblock calipers
Rear	
Rotor size and type	14.2 x 1.1 (360 x 28) two-piece, vented carbon ceramic matrix
Caliper size and type	Brembo four-piston aluminum-monoblock calipers

DIMENSIONS AND CAPACITIES

Wheelbase	111.0 (2,820)
Track, Front	61.3 (1,557) – Giulia and Giulia Ti
	61.2 (1,555) – Giulia Quadrifoglio
Track, Rear	64.0 (1,625) – Giulia and Giulia Ti
	63.3 (1,607) – Giulia Quadrifoglio
Overall Length	182.8 (4,643) – Giulia and Giulia Ti
	182.6 (4,639) – Giulia Quadrifoglio
Overall Width (not including mirrors)	73.2 (1,860) – Giulia and Giulia Ti
	73.8 (1,874) – Giulia Quadrifoglio
Overall Height	56.5 (1,436) – Giulia and Giulia Ti
	57.1 (1,450) – Giulia Q4 AWD and Giulia Ti Q4 AWD
	56.1 (1,426) – Giulia Quadrifoglio
Drag Coefficient (cd)	0.28 – Giulia and Giulia Ti
	0.31 – Giulia Quadrifoglio
Fuel Tank Capacity, gal. (liter)	15.3 (58)



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Curb Weight, lbs. (kg)	3,522 (1,598) – Giulia RWD
	3,622 (1,643) – Giulia AWD
	3,820 (1,733) – Giulia Quadrifoglio RWD

ACCOMMODATIONS

Seating Capacity, F/R	2/3
Headroom, F/R	38.6/37.6
Legroom, F/R	42.4/35.1
Shoulder Room, F/R	56.1/53.6
SAE Interior Volume (cu. ft.)	95.4 cu. ft.

