



Audi of America

Audi Q7 4.2 Technical Specifications

2009 Model Year

Technical Specifications		2009 Audi Q7 4.2 FSI	
ENGINE:			
Type	Aluminum, 90 degree V8 with variable intake manifold, continuous camshaft adjustment, DOHC		
Arrangement	Front mounted, longitudinal		
Bore	3.33 in.	84.5 mm	
Stroke	3.65 in.	92.8 mm	
Displacement	254 cu. in.	4163 cc	
Compression ratio	12.5:1		
Fuel requirement	Premium unleaded plus (91 Octane) recommended for maximum performance		
Horsepower (SAE)	350 hp	6800 rpm	
Max. Torque	325 lbs. ft.	3500 rpm	440 nm
ENGINE DESIGN:			
Cylinder block	High integrity aluminum cylinder block		
Cylinder head	Aluminum alloy		
Valve train / intake	DOHC chain driven, hydraulic valve lifters, two-stage variable intake manifold		
Firing order	1 - 5 - 4 - 8 - 6 - 3 - 7 - 2		
Fuel injection / Ignition system	Fully electronic engine management utilizing Bosch Motronic® 9.1.1, sequential, direct petrol injection with adaptive idle-charge control, acceleration enrichment, overrun fuel cut-off, adaptive lambda control, mapped ignition with solid-state high-voltage distribution via single spark coils, cylinder selective adaptive knock control with four sensors		
Emission system	Dual three-way catalytic converters w/ individual oxygen sensors		
Emissions level	ULEV II BIN 5		
ELECTRICAL SYSTEM:			
Battery	12 volts	95 amp/hr	
Alternator	14 volts	190 amp	
DRIVETRAIN:			
Transmission	Six-speed automatic with Tiptronic®		
Type	quattro Tiptronic		
	Automatic		
Gear ratios:	1st	4.148:1	
	2nd	2.370:1	
	3rd	1.556:1	
	4th	1.155:1	
	5th	0.859:1	
	6th	0.686:1	
	reverse	3.394:1	
	Final Drive	4.320:1	
Front Differential	Hypoid gear, electronically locking (EDL)		
Center Differential	Self-locking differential providing automatic and variable front to rear power proportioning		
Rear Differential	Hypoid gear, electronically locking (EDL)		
STEERING:			
Type	vehicle speed-sensitive power rack and pinion, maintenance free		
Ratio	16.5:1		
Turns (lock-to-lock)	2.66		
Turning circle (curb-to-curb)	39.4 ft.	12 m	
SUSPENSION:			
Front	Front double wishbone independent steel spring suspension		
	Optional 4-corner adjustable air suspension with five suspension settings		
Rear	Rear four-link independent steel spring suspension		
	Optional 4-corner adjustable air suspension with five suspension settings		
BRAKES:			
	Dual circuit brake system with diagonal split, Anti-lock Brake System (ABS), Electronic Brake pressure Distribution (EBD) and Electronic Stabilization Program (ESP); tandem brake booster		
Front, size and type	13.8 in.	350 mm	- Ventilated disc
Rear, size and type	13.0 in.	330 mm	- Ventilated disc
Parking brake	mechanically actuated at the rear wheels		



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Technical Specifications (continued)		2009 Audi Q7 4.2 FSI	
WHEELS:			
Size	8.5J x 19, cast alloy, five-arm V design	(n/c option)	
	9J x 20, cast alloy, bi-color five-twin spoke design	(standard)	
	9J x 20, cast alloy, chrome five-twin spoke design	(optional)	
	9J x 20, cast alloy, five spoke design	(optional)	
	10J x 21, cast alloy, seven double-spoke design	(optional)	
TIRES:			
Size	265/50 R19 all season tire	(n/c option)	
	275/45 R20 all season tire	(standard)	
	275/45 R20 summer performance tire	(optional)	
	295/35 R21 summer performance tire	(optional)	
BODY:			
Material	Unitized steel structure with integrated aluminum and magnesium components		
Corrosion protection	All steel parts are 100% dual-side zinc-galvanized (12 year limited warranty against corrosion perforation)		
WARRANTY/MAINTENANCE:			
	4-Year/50,000 mile new vehicle limited warranty		
	12-Month/5,000 mile (whichever occurs first) NO CHARGE first scheduled maintenance		
CAPACITIES:			
	quattro		
Engine oil	9.7 qt.	9.2 liter	
Fuel tank	26.4 gal.	100 liter	
Cooling system	9.5 qt.	9.0 liter	
EXTERIOR DIMENSIONS:			
	4.2		
Wheelbase	118.2 in.	3002 mm	
Track: front / rear	65.0 / 66.0	1651 / 1676	
Overall length	200.2 in.	5086 mm	
Overall width	78.1 / 85.7	1983 / 2177	
Height (unloaded)	68.4 in.	1737 mm	
Ground clearance (loaded)	8.1 in.	205 mm	9.4 in. 240 mm with Audi adaptive air suspension
Curb weight	5324 lbs.	2415 kg	
Drag coefficient	Cw = 0.37	steel suspension	Cw = 0.35 air suspension Frontal Area = 2.87 sq. m.
INTERIOR DIMENSIONS:			
Seating Capacity	7 (opt. 6)		
Head room front / middle / rear	39.5 in.	1003 mm	/ 39.0 in. 990 mm / 35.6 in. 904 mm
w/sunroof front / middle / rear	40.0 in.	1017 mm	/ 37.2 in. 945 mm / 35.4 in. 899 mm
Shoulder room front / middle / rear	58.7 in.	1490 mm	/ 58.1 in. 1475 mm / 48.6 in. 1235 mm
Leg room front / middle / rear	41.3 in.	1049 mm	/ 37.1 in. 943 mm / 29.2 in. 741 mm
Int. vol. (EPA) front / middle / rear	55.36 cu. ft.	48.63 cu. ft.	29.22 cu. ft.
Luggage capacity (EPA)	10.9 cu. ft.	42.0 cu. ft. (3rd row folded)	72.5 cu. ft. (2nd + 3rd row folded) 144.1 cu. ft. (total including trunk volume)
PERFORMANCE:			
	quattro		
0-50 mph (0-80kmh)	5.3	sec.	
0-60 mph (0-100 km/h)	7.1	sec.	
1/4 mile	15.2	sec.	
Top speed	Top speed is electronically limited to 130 mph (209 km/h)		
FUEL ECONOMY:			
	2009 EPA figures		
	quattro		
City	13	mpg	
Highway	18	mpg	
Combined	15	mpg	