

**2006 B7 Audi S4
Avant Technical Specifications**



Technical Specifications		2006 B7 Audi S4 Avant	
ENGINE:			
Type	V8-arrangement 8-cylinder with Double Overhead Camshafts and two-stage variable intake manifold		
Arrangement	Front mounted		
Bore	3.33 in.	84.5 mm	
Stroke	3.65 in.	92.8 mm	
Displacement	254 cu. in.	4163 cc	
Compression ratio	11.0:1		
Fuel requirement	Premium unleaded 91 AKI / 95 RON recommended for maximum performance		
Horsepower (SAE)	340 hp	@ 7000 rpm (man)	@6800 rpm (Tip)
Max. Torque	302 lbs. ft.	@ 3500	rpm
ENGINE DESIGN:			
Cylinder block			
Crankshaft			
Cylinder head	Aluminum alloy		
Valve train / intake	Intake camshaft adjustment, DOHC belt driven, hydraulic lifters		
Firing order			
Cooling system	Water-cooled, thermostatically controlled radiator fan		
Lubrication system	Gear pump, pressurized, full flow with oil cooler		
Fuel injection / Ignition system	Motronic 7.1.1: fully electronic sequential injection, hot-film air mass measurement, drive-by-wire throttle control, mapped ignition with solid-state high-voltage distribution, cylinder-selective adaptive knock control using four sensors		
Emission system	Two close-coupled primary and two underfloor main catalytic converters; adaptive lambda control with two heated oxygen sensors before and two after the converter.		
ELECTRICAL SYSTEM:			
Battery	12 volts	95 amp/hr	
Alternator	14 volts	190 amp	
DRIVETRAIN:			
Transmissions	6-speed manual transmission 6-speed automatic with Tiptronic®		
Type	quattro Manual 6-speed		quattro Automatic 6-speed w/ Tiptronic®
Gear ratios:	1st	3.667:1	4.171:1
	2nd	2.050:1	2.340:1
	3rd	1.462:1	1.521:1
	4th	1.133:1	1.143:1
	5th	0.919:1	0.867:1
	6th	0.778:1	0.691:1
	Final Drive	3.889:1	3.539:1
Torque Split	40/60		50/50
Front Differential	Hypoid gear, electronically locking (EDL)		
Center Differential	TORSEN® (TORque SENsing) differential providing automatic and variable front to rear power proportioning		
Rear Differential	Hypoid gear, electronically locking (EDL)		
STEERING:			
Type	Maintenance-free rack-and-pinion steering with Servotronic electronic power assist		
Ratio	16.3:1		
Turns (lock-to-lock)	n.a.		
Turning circle (curb-to-curb)	37.7 ft.	11.5 m	
SUSPENSION:			
Front	Four link, upper and lower control arms, stabilizer bar, coil spring/shock absorbers (gas charged)		
Rear	Fully independent, trapezoidal link rear suspension, stabilizer bar, separate coil springs and shock absorbers (gas charged)		
BRAKES:			
Service brake	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	13.6 in.	345x30 mm	- Ventilated disc / FNRG - 60
Rear, size and type	11.9 in.	302x22 mm	- Ventilated disc / C43 HR
Parking brake	Mechanically actuated at the rear wheels		

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Technical Specifications (continued)		2006 B7 Audi S4 Avant			
WHEELS:		Standard (CS1)		Optional (CJ2)	
Size		8J x 18		8J x 18	
Offset		43 mm		43 mm	
Weight		5.8 lbs		n/a	
Type		Cast alloy 6-spoke "AVUS"		Cast alloy 14-spoke	
TIRES:					
Size		235/40 R18			
Speed rating		Z			
Construction		Radial			
Load Index		91			
Brand / Type (all approved)		Conti Sport Contact 2			
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)			
CAPACITIES:					
		quattro			
Engine oil		11.3 qt.	10.7 liter		
Fuel tank		16.6 gal.	63 liter		
Cooling system		12.9 qt.	12.2 liter		
EXTERIOR DIMENSIONS:					
		quattro			
Wheelbase		104.3 in.	2648 mm		
Track:	front / rear	59.9 in.	1522 mm	59.9 in.	1522 mm
Overall length		180.6 in.	4586 mm		
Overall width	/ with mirrors	70.1 in.	1781 mm	76.3 in.	1937 mm
Height (unloaded)		55.7 in.	1415 mm		
Ground clearance (loaded)		3.7 in.	94 mm		
Curb weight	man. / auto.	3979 lbs.	1805 kg	4057 lbs.	1840 kg
Distribution	% front / rear	52/48	52/48		
Drag coefficient		Cw = 0.31	Frontal Area = 2.15 sq. m.		
INTERIOR DIMENSIONS (SAE measurements):					
Seating Capacity		5			
EPA class		Compact			
Head room	front / rear	38.4 in.	976 mm	/	37.24 in. 946 mm
w/sunroof	front / rear	37.9 in.	962 mm	/	37.1 in. 942 mm
Shoulder room	front / rear	55.1 in.	1400 mm	/	53.43 in. 1357 mm
Leg room	front / rear	41.3 in.	1050 mm	/	34.25 in. 870 mm
Int. volume Sedan	front / rear	50.7 cu. ft.	1436 liters	/	39.4 cu. ft. 1116 liters
Luggage Capacity Sedan		13.4 cu. ft.	380 liters	103.5 = total of cu. ft. (including trunk volume)	
Int. Volume Avant	front / rear	50.7 cu. ft.	1436 liters	/	40.1 cu. ft. 1136 liters
Luggage Capacity Avant		27.8 cu. ft.	787 liters	118.6 = total of cu. ft. (including trunk volume)	
Avant rear volume with seats folded		59 cu. ft.	1672 liters		
PERFORMANCE:					
		quattro			
		Manual 6-speed		6-speed Tiptronic automatic	
0-50 mph (0-80kmh)		4.2 sec.		4.4 sec.	
0-60 mph (0-100 km/h)		5.4 sec.		5.7 sec.	
1/4 mile		13.8 sec.		14 sec.	
Top speed		Top speed is electronically limited at 155 MPH (250 km/h)			
FUEL ECONOMY:		EPA estimate			
		quattro			
		Manual 6-speed		6-speed Tiptronic automatic	
City		15 mpg		15 mpg	
Highway		21 mpg		23 mpg	
Combined		17 mpg		18 mpg	
FUEL CONSUMPTION:		Canadian Estimate			
		Manual 6-speed		6-speed Tiptronic automatic	
City		15.8 liters/100km		15.3 liters/100km	
Highway		10.2 liters/100km		9.4 liters/100km	