

A4 3.2 FSI Avant Specifications



Technical Specifications		2006 Audi A4 3.2 Avant																																
ENGINE:																																		
Type	Aluminum V6 spark-ignition engine with gasoline direct injection, DOHC, 2-stage variable intake manifold w/2 charge movement flaps, demand-controlled high-pressure and low-pressure fuel system																																	
Arrangement	Front mounted, longitudinal																																	
Bore	3.33 in.	84.5 mm																																
Stroke	3.65 in.	92.8 mm																																
Displacement	190.57 cu. in.	3123 cc																																
Compression ratio	12.5 : 1																																	
Fuel requirement	Premium unleaded 91 AKI / 95 RON recommended for maximum performance																																	
Horsepower (SAE)	255 hp	@ 6500 rpm																																
Torque	243 lbs. ft.	@ 3250 rpm																																
ENGINE DESIGN:																																		
Cylinder block	High integrity aluminum cylinder block with cast-in thin wall gray iron liners																																	
Crankshaft	Forged steel																																	
Cylinder head	Aluminum alloy																																	
Valve train / intake	DOHC chain driven, hydraulic valve lifters, two-stage variable intake manifold																																	
Cooling system	Water-cooled, thermostatically controlled radiator fan																																	
Lubrication system	Gear pump, pressurized, full flow with oil cooler																																	
Fuel injection: FSI Direct Injection	<p>-A common rail high-pressure injection system with a newly developed single-piston high-pressure pump operating on demand ensures exactly the right amount of fuel, delivering precisely the volume required for building up operating pressure between 30 and 110 bar.</p> <p>-The intake tract, also comprising the two-stage variable intake manifold, moving charge-movement flaps provide the necessary tumble effect, swirling the induced air around depending on operating point. In order to achieve the high specific power and torque values, a new combustion process has been developed. This has the potential for worldwide application and for operation on the fuel grade RON 95/91. Together with the optimum geometry of the combustion chambers and the dosage of fuel injected with supreme accuracy down to the last millisecond, this allows a significant increase in compression:</p> <p>-While conventional production engines generally have a compression ratio of now more than 10.5 : 1, the compression ratio on Audi's 3.2 FSI power unit is 12.5 : 1 - a record on production cars and the essential prerequisite for the new engine's high standard of efficiency.</p>																																	
Emission system	Dual 3-way catalytic converters w/individual oxygen sensors																																	
ELECTRICAL SYSTEM:																																		
Battery	12 volts	80 amp/hr																																
Alternator	14 volts	120 amp																																
DRIVETRAIN:																																		
Transmissions	6-speed automatic with Tiptronic®																																	
Type	<table border="1"> <thead> <tr> <th colspan="2"></th> <th colspan="2">quattro</th> </tr> <tr> <th colspan="2"></th> <th>Manual 6-speed</th> <th>Automatic 6-speed w/ Tiptronic®</th> </tr> </thead> <tbody> <tr> <td rowspan="6">Gear ratios:</td> <td>1st</td> <td>3.667:1</td> <td>4.171:1</td> </tr> <tr> <td>2nd</td> <td>2.053:1</td> <td>2.340:1</td> </tr> <tr> <td>3rd</td> <td>1.423:1</td> <td>1.521:1</td> </tr> <tr> <td>4th</td> <td>1.065:1</td> <td>1.143:1</td> </tr> <tr> <td>5th</td> <td>0.853:1</td> <td>0.867:1</td> </tr> <tr> <td>6th</td> <td>0.730:1</td> <td>0.691:1</td> </tr> <tr> <td></td> <td>Final Drive</td> <td>3.889:1</td> <td>3.539:1</td> </tr> </tbody> </table>					quattro				Manual 6-speed	Automatic 6-speed w/ Tiptronic®	Gear ratios:	1st	3.667:1	4.171:1	2nd	2.053:1	2.340:1	3rd	1.423:1	1.521:1	4th	1.065:1	1.143:1	5th	0.853:1	0.867:1	6th	0.730:1	0.691:1		Final Drive	3.889:1	3.539:1
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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)	36.4 ft.	11.1 m																																
SUSPENSION:																																		
Front	Four-link front suspension, upper and lower wishbones, tubular anti-roll bar																																	
Rear	Independent-wheel, trapezoidal-link rear suspension with resiliently mounted subframe, anti-roll bar																																	
BRAKES:																																		
Service brake	Dual circuit brake system with diagonal split, Anti-lock Brake System (ABS), Electronic Brake pressure Distribution (EBD) and Electronic Stabilization Program, upgraded version 8.0 (ESP) with brake disc wiping feature; tandem brake booster																																	
Front, size and type	12.6 in.	320x30 mm	- Ventilated disc / ContiTeves FNRG-60																															
Rear, size and type	11.3 in.	288x12 mm	- Solid disc / TRW CII-41																															
Parking brake	Mechanically actuated at the rear wheels																																	

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Technical Specifications (continued)		2006 Audi A4 3.2 Avant			
WHEELS:		Standard 17" (C8F)		S line 18" (CH9)	
Size		7.5J x 17		8J x 18	
Offset		45 mm		43 mm	
Weight		n/a		n/a	
Type		Cast alloy 5 double spoke		Cast alloy 5-arm quattro GmbH	
TIRES:					
Size		235 / 45 R17		235 / 40 R18	
Speed rating		H (all-season)		Y (high performance)	
Construction		Radial		Radial	
Load Index		94		n/a	
Brand / Type (all approved)		<i>Michelin Pilot Primacy (performance)</i> <i>Conti Sport Contact 2 (performance)</i> <i>Pirelli P6 FourSeasons (all-seasons)</i>			
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		6.3 qt.	6 liter		
Fuel tank		16.6 gal.	63 liter		
Cooling system		9.5 qt.	9 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		69.8 in.	1772 mm	/ 76.3 in.	1937 mm
Height (unloaded)		56.2 in.	1427 mm		
Ground clearance (loaded)		4.2 in.	106 mm		
Curb weight: man. / auto.		3770 lbs.	1710 kg	3858 lbs.	1750 kg
Distribution: % front / rear		58 / 42		59 / 41	
Drag coefficient: Front / quattro	Cw = 0.31	Frontal Area = 2.18 sq. m.			
INTERIOR DIMENSIONS (SAE measurements):					
Seating Capacity		5			
EPA class		Compact			
Head room front / rear		38.4 in.	976 mm	/	37.6 in. 956 mm
w/sunroof front / rear		37.9 in.	962 mm	/	37.2 in. 946 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		Automatic 6-speed w/ Tiptronic®	
0-50 mph (0-80kmh)		4.8 sec.		5.0 sec.	
0-60 mph (0-100 km/h)		6.6 sec.		6.8 sec.	
Top speed	Top speed is electronically limited at 130 MPH (208 km/h)				
FUEL ECONOMY:					
EPA estimate					
		quattro			
		Manual 6-speed		Automatic 6-speed w/ Tiptronic®	
City		n/a		19 mpg	
Highway		n/a		26 mpg	
Combined		n/a		21 mpg	
FUEL CONSUMPTION:					
Canadian Estimate					
		Automatic 6-speed w/ Tiptronic®			
City		n/a		12.6 liters/100km	
Highway		n/a		8.2 liters/100km	