



Technical Specifications		2008 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	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
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	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		

A4 3.2 Specifications



Technical Specifications (continued)		2008 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:					
		US EPA			
		quattro			
		Manual 6-speed		Automatic 6-speed w/ Tiptronic®	
City		15		17 mpg	
Highway		25		25 mpg	
Combined		19		20 mpg	
FUEL CONSUMPTION:					
		Canadian (estimated)			
		Automatic 6-speed w/ Tiptronic®			
City		n/a		12.6 liters/100km	
Highway		n/a		8.2 liters/100km	