

2005 Audi A4 Avant
1.8T Technical Specifications



Technical Specifications		2005 Audi A4 1.8T Avant	
ENGINE:			
Type	Inline 4-cylinder with exhaust gas turbocharger and charge-air intercooling, DOHC		
Arrangement	Front mounted, longitudinal		
Bore	3.18 in.	81 mm	
Stroke	3.40 in.	86.4 mm	
Displacement	109 cu. in.	1781 cc	
Compression ratio	9.3:1		
Fuel requirement	Premium unleaded 91 AKI / 95 RON recommended for maximum performance		
Horsepower (SAE)	170 hp	@ 5900	rpm
Max. Torque	166 lbs. ft.	@ 1950 - 5000	rpm
ENGINE DESIGN:			
Cylinder block	Cast iron		
Crankshaft	Forged steel, 4 main bearings		
Cylinder head	Aluminum alloy		
Valve train / intake	Intake camshaft adjustment, DOHC belt driven, hydraulic lifters		
Firing order	1 - 3 - 4 - 2		
Cooling system	Water-cooled, thermostatically controlled radiator fan		
Lubrication system	Gear pump, pressurized, full flow with oil cooler		
Fuel injection / Ignition system	Fully electronic engine management, sequential 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, adaptive knock control, air-mass measurement, integrated boost pressure control		
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	<ul style="list-style-type: none"> • 6-speed manual transmission • 5-speed automatic with Tiptronic® 		
Type	quattro		
	Manual 6-speed		Automatic 5-speed w/ Tiptronic®
Gear ratios: 1st			3.665:1
2nd			1.999:1
3rd			1.407:1
4th	Data Not Yet Available		1.000:1
5th			0.742:1
Reverse			4.096:1
Final Drive			3.730:1
Front Differential	Hypoid gear, electronically locking (EDL)		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 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, upper and lower control arms, stabilizer bar, coil spring/shock absorbers (gas charged)		
Rear (quattro)	Fully independent, trapezoidal link rear suspension, stabilizer bar, coil spring / 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	11.3 in.	288x25 mm	- Ventilated disc / FN3 - 57
Rear, size and type	9.6 in.	245x10 mm	- Solid disc / C38 HR
Parking brake	Mechanically actuated at the rear wheels		

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Technical Specifications (continued)		2005 Audi A4 1.8 T Avant	
WHEELS:			
	Standard 16" (CA1)	Optional 17" (CD0)	
Size	7J x 16	7.5J x 17	
Offset	42 mm	45 mm	
Weight	9,600 g / 21 lbs	12,000 g / 26 lbs	
Type	Cast alloy	Cast alloy	
TIRES:			
	Optional 16" (H9P)	Optional 17" (H8A) or (HG6)	
Size	215 / 55	235 / 45	
Speed rating	H	Y or H	
Construction	Radial	Radial	
Load Index	91	94	
Brand / Type (all approved)	Pirelli P6 Four Seasons	Dunlop SP 9090 (Performance)	
	Michelin MXM4	Michelin Pilot Primacy (Performance)	
	-	Conti Sport Contact 2 (Performance)	
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	4.2 qt.	4 liter	
Fuel tank	16.6 gal.	63 liter	
Cooling system	6.9 qt.	6.5 liter	
EXTERIOR DIMENSIONS:			
	quattro		
Wheelbase	104.3 in.		2650 mm
Track: front / rear	60.2 in.	60.1 in.	1528 mm / 1526 mm
Overall length	179 in.		4544 mm
Overall width / with mirrors	69.5 in.	76.3 in.	1764 mm / 937 mm
Height (unloaded) / w/roof rails	56.2 in.	57.2 in.	1428 mm / 1453 mm
Ground clearance (loaded)	4.2 in.		106 mm
Curb weight man. / auto.	FrontTrak: 3484 lbs/1580 kg	3516 lbs. 3660 lbs.	1595 kg / 1660 kg
Distribution % front / rear	FrontTrak: 50/50	50 / 50 (Man.) 51 / 49 (Auto)	
Drag coefficient	Cw = 0.33	Frontal Area = 2.14 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	37.3 in.	948 mm	37.09 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
Interior volume front / rear	50.7 cu. ft.	40.1 cu. ft.	118.6 cubic feet (total volume including trunk volume)
Luggage Capacity	27.8 cu. ft.	60.6	(with seats folded)
PERFORMANCE:			
	quattro		
	Manual 6-speed	Automatic	
0-50 mph (0-80kmh)	5.9 sec.	6.5 sec.	
0-60 mph (0-100 km/h)	8.1 sec.	8.6 sec.	
1/4 mile	16.5 sec.	17.0 sec.	
Top speed	Top speed is electronically limited at 130 MPH (209 km/h)		
FUEL ECONOMY: EPA estimate			
	quattro		
	Manual 6-speed	Automatic	
City	21 mpg	19 mpg	
Highway	29 mpg	28 mpg	
Combined	24 mpg	22 mpg	
FUEL ECONOMY: Canadian Estimate			
	Manual 6-speed	Automatic	
City	11.3 liters/100km	12.2 liters/100km	
Highway	7.5 liters/100km	7.7 liters/100km	

2005 Audi A4 Avant
3.0 Technical Specifications



Technical Specifications		2005 Audi A4 3.0 Avant	
ENGINE:			
Type	Aluminum, 90 degree V6 with variable intake manifold, continuous camshaft adjustment, balance shaft, DOHC		
Arrangement	Front mounted, longitudinal		
Bore	3.25 in.	82.5 mm	
Stroke	3.65 in.	92.8 mm	
Displacement	182 cu. in.	2976 cc	
Compression ratio	10.1 : 1		
Fuel requirement	Premium unleaded 91 AKI / 95 RON recommended for maximum performance		
Horsepower (SAE)	220 hp	@ 6300 rpm	
Torque	221 lbs. ft.	@ 3200 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		
Firing order	1 - 4 - 3 - 6 - 4 - 5		
Cooling system	Water-cooled, thermostatically controlled radiator fan		
Lubrication system	Gear pump, pressurized, full flow with oil cooler		
Fuel injection / Ignition system	Fully electronic engine management utilizing Bosch Motronic® 7.1.1., sequential 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 two sensors		
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	<ul style="list-style-type: none"> • 6-speed manual transmission • 5-speed automatic with Tiptronic® 		
Type	quattro		
Gear ratios:	1st	Manual 6-speed	Automatic 5-speed w/ Tiptronic®
	2nd	3.500:1	3.665:1
	3rd	1.889:1	1.999:1
	4th	1.320:1	1.407:1
	5th	1.034:1	1.000:1
	6th	0.857:1	0.742:1
	Reverse	0.730:1	-
	Final Drive	4.111:1	3.091:1
Front Differential	Hypoid gear, electronically locking (EDL)		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 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, upper and lower control arms, stabilizer bar, coil spring/shock absorbers (gas charged)		
Rear (quattro)	Fully independent, trapezoidal link rear suspension, stabilizer bar, coil spring / 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	12.3 in.	312x25 mm	- Ventilated disc / FN3 - 57
Rear, size and type	10 in.	255x12 mm	- Solid disc / C38 HR
Parking brake	Mechanically actuated at the rear wheels		

2005 Audi A4 Avant
3.0 Technical Specifications



Technical Specifications (continued)		2005 Audi A4 3.0 Avant	
WHEELS:		Standard 16" (C2F)	Optional 17" (CD0)
Size		7.0J x 16	7.5J x 17
Offset		42 mm	45 mm
Weight		9,500 g / 21 lbs	12,000 g / 26 lbs
Type		Cast alloy	Cast alloy
TIRES:		Standard 16" (H9P)	Optional 17" (H8A) or (HG6)
Size		215 / 55	235 / 45
Speed rating		H	Y or H
Construction		Radial	Radial
Load Index		91	94
Brand / Type (<i>all approved</i>)		Pirelli P6 Four Seasons	Dunlop SP 9090 (Performance)
		Michelin MXM4	Michelin Pilot Primacy (Performance)
		-	Conti Sport Contact 2 (Performance)
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		5.8 qt.	5.5 liter
Fuel tank		17.4 gal.	66 liter
Cooling system		9.5 qt.	9 liter
EXTERIOR DIMENSIONS:			
	quattro		
Wheelbase	104.3 in.		2650 mm
Track: front / rear	60.2 in. / 60.1 in.		1528 mm / / 1526 mm
Overall length	179 in.		4544 mm
Overall width / with mirrors	69.5 in. / 76.3 in.		1764 mm / / 937 mm
Height (unloaded) / w/roof rails	56.2 in. / 57.2 in.		1428 mm / / 1453 mm
Ground clearance (loaded)	4.2 in.		106 mm
Curb weight man. / auto.	3693 lbs. / 3737 lbs.		1675 kg / / 1695 kg
Distribution % front / rear	59 / 41 58 / 42		
Drag coefficient	Cw = 0.33 Frontal Area = 2.14 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	37.3 in.	948 mm	/ 37.09 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
Interior volume front / rear	50.7 cu. ft. / 40.1 cu. ft.		118.6 cubic feet (total volume including trunk volume)
Luggage Capacity	27.8 cu. ft.		60.6 (with seats folded)
PERFORMANCE:			
	quattro		
	Manual 6-speed	Automatic	
0-50 mph (0-80kmh)	5.3 sec.	6.0 sec.	
0-60 mph (0-100 km/h)	7.1 sec.	7.9 sec.	
1/4 mile	15.5 sec.	16.1 sec.	
Top speed	Top speed is electronically limited at 130 MPH (209 km/h)		
FUEL ECONOMY: EPA estimate			
	quattro		
	Manual 6-speed	Automatic	
City	18 mpg	17 mpg	
Highway	25 mpg	25 mpg	
Combined	20 mpg	20 mpg	
FUEL ECONOMY: Canadian Estimate			
	Manual 6-speed	Automatic	
City	13.4 liters/100km	13.5 liters/100km	
Highway	8.7 liters/100km	8.5 liters/100km	