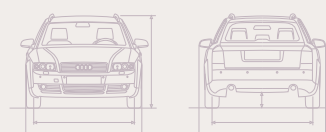


A4

2003 Audi A4 Avant Technical Specifications



A4 AVANT TECHNICAL SPECIFICATIONS

A4

2003 Audi A4 Avant



Technical Specifications - 2003 Audi A4 1.8 T Avant

Engine

2003 Audi A4 1.8 T Avant

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 requirements	Regular unleaded (87 AKI), Premium unleaded (91 AKI) recommended for maximum performance
Horsepower	170 hp @ 5900 rpm
Max. Torque	166 lbs/ft @ 1950 - 5000 rpm

Engine Design

2003 Audi A4 1.8 T Avant

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

2003 Audi A4 1.8 T Avant

Battery	12 volts 80 amp/hr
Alternator	14 volts 120 amp

Drivetrains

2003 Audi A4 1.8 T Avant

Transmissions	5-speed manual 5-speed automatic with Tiptronic®
Type	quattro

quattro®		
	Manual 5-speed	Automatic 5-speed w/ Tiptronic®
Gear ratios: 1st	3.778:1	3.665:1
2nd	2.176:1	1.999:1
3rd	1.429:1	1.407:1
4th	1.091:1	1.000:1
5th	0.838:1	0.742:1
Final Drive	3.889:1	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	TORSEN® (TORque SENsing) differential providing automatic and variable front to rear power proportioning
Rear Differential	Hypoid gear electronically locking (EDL)	Hypoid gear electronically locking (EDL)

A4

2003 Audi A4 Avant



Technical Specifications - 2003 Audi A4 1.8 T Avant

Suspension

2003 Audi A4 1.8 T Avant

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)

Steering

2003 Audi A4 1.8 T Avant

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)

Brakes

2003 Audi A4 1.8 T Avant

Service brake	Dual circuit brake system with diagonal split, Anti-lock Brake System (ABS), Electronic Brake 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		

Wheels

Standard (C1W) Optional 16" (CA1) Optional 17" (CD0)

Size	7J x 15	7J x 16	7.5J x 17
Offset	39 mm	42 mm	45 mm
Weight	6,900 g / 15 lbs	9,600 g / 21 lbs	12,000 g / 26 lbs
Type	Lightweight alloy	Cast alloy	Cast alloy

Tires

Standard (H3Z) Optional 16" (H9P) Optional 17" (H8A)+

Size	205 / 65	215 / 55	235 / 45
Speed rating	H	H	Y
Construction	Radial	Radial	Radial
Load Index	91	91	94
Brand / Type (all approved)	Pirelli P6 Four Seasons	Pirelli P6 Four Seasons Michelin MXM4	Dunlop SP 9090 Michelin Pilot Primacy Conti Sport Contact 2

Body

2003 Audi A4 1.8 T Avant

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

2003 Audi A4 1.8 T Avant

Engine oil	4.2 qt. (4 liter)
Fuel tank	17.4 gal. (66 liter)
Cooling system	6.9 qt. (6.5 liter)

A4

2003 Audi A4 Avant



Technical Specifications - 2003 Audi A4 1.8 T Avant

Exterior Dimensions

2003 Audi A4 1.8 T Avant

Wheelbase	104.3 in.	2650 mm
Track: front / rear	60.2 in.	1528 mm / 60.1 in. 1526 mm
Overall length	179.0 in.	4544 mm
Overall width / with mirrors	69.5 in.	1764 mm / 76.3 in. 1937 mm
Height (unloaded)	56.2 in.	1428 mm
Height w/ roof rail (unloaded)	57.2 in.	1453 mm
Ground clearance (loaded)	4.2 in.	106 mm
Curb weight: man. / auto.	3516 lbs. 1595 kg /	3660 lbs. 1660 kg
Distribution: % front / rear	56 / 44	57 / 43

Interior Dimensions (SAE measurements)

2003 Audi A4 1.8 T Avant

Seating Capacity	5
EPA class	Small station wagon
Head room front / rear	38.4 in. 976 mm / 37.6 in. 956 mm
Shoulder room front / rear	55.1 in. 1400 mm / 53.43 in. 1357 mm
Interior volume front / rear	50.7 cu. ft. / 40.1 cu. ft. 49.2 cu. ft. / 39.5 cu. ft. (with sunroof)
Luggage Capacity	27.8 cu. ft.

Performance

quattro®
Manual 5-speed Tiptronic®

0-50 mph (0-80 km/h)	5.9 sec.	6.6 sec.
0-60 mph (0-100 km/h)	8.1 sec.	8.7 sec.
.25 mile (.40 km)	16.5 sec.	17.1 sec.
Top speed	Top speed is electronically limited at 130 mph (209 km/h) ⁺⁺	

Fuel Economy: EPA estimate⁺⁺⁺

quattro®
Manual 5-speed Tiptronic®

City	21 mpg	19 mpg
Highway	29 mpg	28 mpg
Combined	24 mpg	22 mpg

Fuel Economy: Canadian estimate⁺⁺⁺

quattro®
Manual 5-speed Tiptronic®

City	11.3 liters / 100 km	12.2 liters / 100 km
Highway	7.5 liters / 100 km	7.7 liters / 100 km

A4

2003 Audi A4 Avant



Technical Specifications - 2003 Audi A4 1.8 T Avant

Engine

2003 Audi A4 1.8 T Avant

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 requirements	Regular unleaded (87 AKI), Premium unleaded (91 AKI) recommended for maximum performance
Horsepower	170 hp @ 5900 rpm
Max. Torque	166 lbs/ft @ 1950 - 5000 rpm

Engine Design

2003 Audi A4 1.8 T Avant

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

2003 Audi A4 1.8 T Avant

Battery	12 volts 80 amp/hr
Alternator	14 volts 120 amp

Drivetrains

2003 Audi A4 1.8 T Avant

Transmissions	5-speed manual 5-speed automatic with Tiptronic®
Type	quattro

quattro®		
	Manual 5-speed	Automatic 5-speed w/ Tiptronic®
Gear ratios: 1st	3.778:1	3.665:1
2nd	2.176:1	1.999:1
3rd	1.429:1	1.407:1
4th	1.091:1	1.000:1
5th	0.838:1	0.742:1
Final Drive	3.889:1	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	TORSEN® (TORque SENsing) differential providing automatic and variable front to rear power proportioning
Rear Differential	Hypoid gear electronically locking (EDL)	Hypoid gear, electronically locking (EDL)

A4

2003 Audi A4 Avant



Technical Specifications - 2003 Audi A4 3.0 Avant

Suspension

2003 Audi A4 3.0 Avant

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, separate coil springs and shock absorbers (gas charged)

Steering

2003 Audi A4 3.0 Avant

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)

Brakes

2003 Audi A4 3.0 Avant

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	9.6 in.	(245x10 mm)	- Solid disc / C38 HR
Parking brake	Mechanically actuated at the rear wheels		

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)+

Size	215 / 55	235 / 45
Speed rating	H	Y
Construction	Radial	Radial
Load Index	91	94
Brand / Type (all approved)	Pirelli P6 Four Seasons Michelin MXM4	Dunlop SP 9090 Michelin Pilot Primacy Conti Sport Contact 2

Body

2003 Audi A4 3.0 Avant

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

2003 Audi A4 3.0 Avant

Engine oil	5.8 qt. (5.5 liter)
Fuel tank	17.4 gal. (66 liter)
Cooling system	n.a.

A4

2003 Audi A4 Avant



Technical Specifications - 2003 Audi A4 3.0 Avant

Exterior Dimensions

2003 Audi A4 3.0 Avant

Wheelbase	104.3 in.	2650 mm		
Track: front / rear	60.2 in.	1528 mm	/	60.1 in. 1526 mm
Overall length	179.0 in.	4544 mm		
Overall width / with mirrors	69.5 in.	1764 mm	/	76.3 in. 1937 mm
Height (unloaded)	56.2 in.	1428 mm		
Height with roof rail (unloaded)	57.2 in.	1453 mm		
Ground clearance (loaded)	4.2 in.	106 mm		
Curb weight: man. / auto.	3693 lbs.	1675 kg	3737 lbs.	1695 kg
Distribution: % front / rear	59 / 41		58 / 42	

Interior Dimensions (SAE measurements)

2003 Audi A4 3.0 Avant

Seating Capacity	5			
EPA class	Small station wagon			
Head room front / rear	38.4 in.	976 mm	/	37.6 in. 956 mm
Shoulder room front / rear	55.1 in.	1400 mm	/	53.4 in. 1357 mm
Interior volume front / rear	50.7 cu. ft.	/	40.1 cu. ft.	49.2 cu. ft. / 39.5 cu. ft. (with sunroof)
Luggage Capacity	27.8 cu. ft.			

Performance

quattro®

	Manual 6-speed	Tiptronic®
0-50 mph (0-80 km/h)	5.3 sec.	6.0 sec.
0-60 mph (0-100 km/h)	7.1 sec.	7.9 sec.
.25 mile (.40 km)	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	Tiptronic®
City	18 mpg	17 mpg
Highway	25 mpg	25 mpg
Combined	20 mpg	20 mpg

Fuel Economy: Canadian estimate***

quattro®

	Manual 6-speed	Tiptronic®
City	13.4 liters / 100 km	13.5 liters / 100 km
Highway	8.7 liters / 100 km	8.5 liters / 100 km

+ These tires are designed for optimum performance and handling in warm climates. They are not suitable for cold, snowy, or icy weather conditions. If you drive under those circumstances, you should equip your vehicle with all-season or winter tires, which offer better traction under those conditions. We suggest you use the recommended winter or all season tire specified for your car or its equivalent. These high-performance tires also have a lower aspect ratio that aids performance and handling; however, in order to avoid tire, rim, or vehicle damage, it is important that the inflation pressure is regularly checked and maintained at recommended levels. Please also remember in making your selection that, while these tires deliver responsive handling, they may ride less comfortably and make more noise than other choices. Finally, these tires may wear more quickly than other choices. For further information on all these topics, please consult the owner's manual, your local dealer or call 1-800-FOR-AUDI.

** Maximum speed electronically limited to 130 mph in U.S. (209 kmh in Canada). Obey all speed and traffic laws.

*** Your mileage may vary.

Audi of America, Inc. believes the specifications in this data sheet to be correct at the time of publishing. See your dealer for complete details.