



Technical Specifications		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 (manual)	6800 rpm (auto)
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		
Cooling system	Water-cooled, thermostatically controlled radiator fan		
Lubrication system	Gear pump, pressurized, full flow with oil cooler		
Fuel injection: FSI Direct Injection	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 transmission 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)		Hypoid gear, electronically locking (EDL)
Center Differential	TORSSEN® (TORque SENsing) differential providing automatic and variable front to rear power proportioning		TORSSEN® (TORque SENsing) differential providing automatic and variable front to rear power proportioning
Rear Differential	Hypoid gear, electronically locking (EDL)		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 springs/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, 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		



Technical Specifications (continued)		S4 Avant	
WHEELS:			
Standard 18" (C5G)			
Size	8J X 18"		
Offset	43 mm		
Weight	n/a		
Type	Cast alloy 7 double-spoke wheels with high-performance tires		
TIRES:			
Size	235/40 R 18		
Speed rating	Y		
Construction	Radial		
Load Index	91		
Brand / Type (all approved)	Conti Sport Contact 2 Pirelli P Zero Rosso		
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.	4012 lbs.	1820 kg	/ 4101 lbs. 1860 kg
Distribution: % front / rear	52/48	52/48	
Drag coefficient: Front / quattro	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	Automatic Tiptronic®
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 CONSUMPTION:			
EPA estimate			
quattro®			
		Manual 6-speed	Automatic Tiptronic®
City	13 mpg	14 mpg	
Highway	20 mpg	21 mpg	
Combined	15 mpg	16 mpg	
Canadian Estimate			
		Manual 6-speed	Automatic Tiptronic®
City	16.0 liters/100km	15.5 liters/100km	
Highway	10.2 liters/100km	9.5 liters/100km	