2006 Audi A8
Technical Specifications

Technical Specifications	2006 Audi A8 L 4.2 quattro			2006 Audi A8 4.2 quattro (NWB, where different)	
ENGINE:					
Type	DOHC aluminum alloy 90 degree V8, ULEV exhaust standard				
Arrangement	Front mounted, longitudinal				
Bore	3.33 in.	84.5 mm			
Stroke	3.66 in.	93 mm			
Displacement	255 cu. in.	4172 cc			
Compression ratio	11.0 : 1				
Fuel requirement	Premium unleaded 91 AKI / 95 RON recommended for maximum performance				
Horsepower (SAE)	335 hp @ 6500 rpm				
Torque	317 lb.-ft. @ 3500 rpm				
ENGINE DESIGN:					
Cylinder block	Aluminum alloy				
Crankshaft	Forged steel, 5 main bearings				
Cylinder head	Aluminum alloy				
Valve train / intake	DOHC, hydraulic valve lifters, two-stage variable intake manifold				
Firing order	1 - 5 - 4 - 8 - 6 - 3 - 7 - 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 utilizing Bosch Motronic® ME7.1.1., 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 110 amp/hr				
Alternator	14 volts 190 amp				
DRIVETRAIN:					
Transmissions	6-speed Tiptronic transmission				
Type	**quattro all-wheel drive**				
	6-speed Tiptronic transmission				
Gear ratios: 1st	4.171:1				
2nd	2.340:1				
3rd	1.521:1				
4th	1.143:1				
5th	0.867:1				
6th	0.691:1				
Final Drive	3.317:1				
Reverse	3.403:1				
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 variable speed-based power assist				
Turns (lock-to-lock)	2.8				
Turning circle (curb-to-curb)	41.7 ft.	12.7 m		41.0 ft.	12.5 m
SUSPENSION:					
Fully Pneumatic	Air Suspension Struts at all four wheels.				
	Air Strut damping characteristics are continuously adjusted via sensors.				
	Four driver-activated suspension settings (Dynamic, Standard, Lift, and Automatic)				
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	14.2 in.	360x34 mm	- Ventilated disc, 2 piston calipers		
Rear, size and type	12.2 in.	310x22 mm	- Ventilated disc, 1 piston caliper		
Parking brake	Electro-mechanically actuated at the rear wheels				

WHEELS:	**Wheel & Tire Program applicable to A8 L 4.2 quattro and A8 4.2 quattro (NWB)**				
	Standard 18" (CG3)	**Optional 18" (C3G)**	**Optional 19" (CG4)**	**Optional 19" (CV9) sport package**	
Size	8.5J x 18	8.5J x 18	8.5J x 19	8.5J x 19	
Offset	45 mm	45 mm	45 mm	45 mm	
Weight	12,800 g / 28.2 lbs	n/a	11,100 g / 24.5 lbs	n/a	
Type	5 spoke cast alloy	Y spoke cast alloy	12 spoke forged	5 arm cas alloy (quattro GmbH)	
TIRES:	**Standard 18" (HG7)**	**18" (HG7)**	**Optional 19" (HT2)**	**Optional 19" (HT2) a/s or perf (H4L)**	
Size	255 / 45	255 / 45	255 / 40	255 / 40	255 / 40
Speed rating	H	H	Y	V	Y
Construction	Radial	Radial	Radial	Radial	Radial
Load Index	99	99	99	100	100
Brand / Type *(all approved)*	Pirelli P6 Four Seasons	Pirelli P6 Four Seasons	Pirelli P6 Four Seasons	Pirelli P6 Four Seasons	Pirelli P Zero Rosso
	Conti TouringContact Ch 95	Conti TouringContact Ch 95	Dunlop SP 9000		Dunlop SP 9000
			Bridgestone Potenza RE 040		Bridgestone Potenza RE

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Technical Specifications	2005 Audi A8 L 4.2 quattro			2005 Audi A8 4.2 quattro (NWB, where different)		
BODY:						
Material	Audi Space Frame construction (aluminum alloy) with aluminum alloy body panels					
Corrosion protection	Multi-step anti-corrosion protection					
CAPACITIES:						
Engine oil	8 qt.	7.5 liter	(capacit			
Fuel tank	23.8 gal.	90 liter				
Cooling system	12.152 qt.	11.5 liter				
EXTERIOR DIMENSIONS:						
Wheelbase	121.0 in.	3074 mm		115.9 in.	2944 mm	
Track: front	64.1 in.	1629 mm				
rear	63.6 in.	1615 mm				
Overall length	204.4 in.	5192 mm		199.3 in.	5062 mm	
Overall width	74.6 in.	1894 mm				
Overall width with mirrors	79.8 in.	2028 mm				
Height (unloaded)	57.3 in.	1455 mm		56.9 in.	1444 mm	
Ground clearance (loaded)	4.72 in.	120 mm	*** Ground clearance is dependent on Suspension Mode setting			
(variance)	+/- 1 in.	+/- 25 mm	*** Ground clearance is dependent on Suspension Mode setting			
Curb weight	4399 lbs.	1995 kg		4288 lbs.	1945 kg	
Distribution % front / rear	56.4 / 43.6					
Drag coefficient	Cw = 0.27		Frontal Area = 2.31 sq. m.			
INTERIOR DIMENSIONS (SAE measurements):						
Seating Capacity	5					
EPA class	Large					
Head room front	37.4 in.	951 mm	(with sunroof)	37.3 in.	948 mm	
rear	38.3 in.	974 mm		38.0 in.	965 mm	
Shoulder room front	59.1 in.	1500 mm				
rear	57.5 in.	1461 mm				
Leg room front	41.3 in.	1049 mm		41.4 cu.ft.	1051 liters	
rear	42.3 in.	1075 mm		37.6 cu.ft.	954 liters	
Interior volume front	52.8 cu. ft.	1496.7 liters		52.8 cu.ft.	1494.7 liters	
rear	54.0 cu. ft.	1529.9 liters		47.5 cu.ft.	1345.2 liters	
total	121.4 cu. ft.	3439.5 liters		114.9 cu.ft.	3252.8 liters	
Luggage Volume (SAE)	14.6 cu. ft.	412.9 liters				
PERFORMANCE:						
0-50 mph (0-80kmh)	4.8 sec.					
0-60 mph (0-100 km/h)	6.3 sec.					
1/4 mile	14.2 sec.					
Top speed	Top speed is electronically limited at 130 MPH (208 km/h)					
FUEL ECONOMY (EPA estimate):						
City	18 mpg					
Highway	24 mpg					
Combined	20 mpg					
FUEL ECONOMY: Canadian Estimate						
City	13.4 liters/100km					
Highway	8.9 liters/100km					

[1] 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 tires 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 recommende 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 more information on all of these topics, please consult the owner's manual, your local dealer or call 1-800-FOR-AUDI.