

2007 Audi A8  
 Technical Specifications

Technical Specifications		2007 Audi A8 L 4.2 quattro		2007 Audi A8 4.2 quattro (NWB, where different)	
<b>ENGINE:</b>					
Type	V8 spark-ignition direct injection				
Arrangement	Front mounted, longitudinal				
Bore	3.33 in.	84.5 mm			
Stroke	3.65 in.	92.8 mm			
Displacement	254 cu. in.	4163 cc			
Compression ratio	12.5 : 1				
Fuel requirement	Premium unleaded 91 AKI / 95 RON recommended for maximum performance				
Horsepower (DIN)	350 hp	@ 6800 rpm			
Torque	325 lb.-ft.	@ 3500 rpm			
<b>ENGINE DESIGN:</b>					
Cylinder block	Aluminum alloy				
Crankshaft	Forged steel				
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 sequential injection, coordinated torque control, hot-film air mass measurement, drive-by-wire throttle control, mapped ignition with solid-state high-voltage distribution, adaptive lambda control				
Emission system	two close-coupled ceramic main catalytic converters, secondary air system				
<b>ELECTRICAL SYSTEM:</b>					
Battery	12 volts	110 amp/hr			
Alternator	14 volts	190 amp			
<b>DRIVETRAIN:</b>					
Transmissions	6-speed Tiptronic transmission				
Type	<b>quattro all-wheel drive</b>				
	<b>6-speed Tiptronic transmission</b>				
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)				
<b>STEERING:</b>					
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	
<b>SUSPENSION:</b>					
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)				
<b>BRAKES:</b>					
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				
<b>WHEELS:</b>					
	<b>Wheel &amp; Tire Program applicable to A8 L 4.2 quattro (LWB) and A8 4.2 quattro (NWB)</b>				
	<b>Standard 18" (CG3)</b>	<b>Optional 18" (C3G)</b>	<b>Optional 19" (CG4)</b>	<b>Opt. 19" (CV9) sport pkg</b>	<b>or opt. 20" (CT1)</b>
Size	8.5J x 18	8.5J x 18	8.5J x 19	8.5J x 19	sport package
Offset	45 mm	45 mm	45 mm	45 mm	9J x 20"
Weight	12,800 g / 28.2 lbs	n/a	11,100 g / 24.5 lbs	n/a	7 double spoke
Type	5 spoke cast alloy	Y spoke cast alloy	12 spoke forged	5 arm cas alloy (quattro GmbH)	
<b>TIRES:</b>					
	<b>Standard 18" (HG7)</b>	<b>18" (HG7)</b>	<b>Optional 19" (HT2)</b>	<b>Opt. 19" (HT2) a/s or perf (H4L)</b>	
Size	255 / 45	255 / 45	255 / 45	255 / 40	275 / 35 R20
Speed rating	H	H	H	V all season Y perf	performance tires
Construction	Radial	Radial	Radial	Radial radial	PR # H9N
Load Index	99	99	99	100	
Brand / Type (all approved)	Pirelli P6 Four Seasons	Pirelli P6 Four Seasons	Pirelli P6 Four Seasons	Pirelli P6 4 Seasons (all season)	
	Conti TouringContact Ch 95	Conti TouringContact Ch 95	Conti TouringContact Ch 95	Pirelli P Zero Rosso, Dunlop SP 9000	
				Brodgestone Potenza RE 040	

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<b>BODY:</b>					
Material	Audi Space Frame construction (aluminum alloy) with aluminum alloy body panels				
Corrosion protection	Multi-step anti-corrosion protection				
<b>CAPACITIES:</b>					
Engine oil	8.9 qt.	8.4 liter			
Fuel tank	23.8 gal.	90 liter			
Cooling system	12.7 qt.	12.0 liter			
<b>EXTERIOR DIMENSIONS:</b>					
Wheelbase	121.0 in.	3074 mm		115.9 in.	2944 mm
Track: front	64.1 in.	1629 mm			
Track: 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	
Ground clearance (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.		
<b>INTERIOR DIMENSIONS (SAE measurements):</b>					
Seating Capacity	5				
EPA class	Large				
Head room front	37.4 in.	951 mm	(with sunroof)	37.3 in.	948 mm
Head room rear	38.3 in.	974 mm		38.0 in.	965 mm
Shoulder room front	59.1 in.	1500 mm			
Shoulder room rear	57.5 in.	1461 mm			
Leg room front	41.3 in.	1049 mm		41.4 cu.ft.	1051 liters
Leg room 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
Interior volume rear	54.0 cu. ft.	1529.9 liters		47.5 cu.ft.	1345.2 liters
Interior volume 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			
<b>PERFORMANCE:</b>					
0-60 mph (0-100 km/h)	5.9 sec.				
Top speed	Top speed is electronically limited at 130 MPH (208 km/h)				
<b>FUEL ECONOMY (EPA estimate):</b>					
City	18 mpg				
Highway	25 mpg				
Combined	20 mpg				
<b>FUEL ECONOMY: Canadian Estimate</b>					
City	13.1 liters/100km				
Highway	8.8 liters/100km				

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