



# Audi of America

## A8/A8L 4.2 Technical Specifications

### 2010 Model Year

Technical Specifications	2010 Audi A8L 4.2 quattro	2010 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 (SAE)	350 hp	@ 6800 rpm 257 KW
Max. Torque	325 lbs. ft.	@ 3500 rpm 440 Nm
<b>ENGINE DESIGN:</b>		
Cylinder block	Aluminium alloy	
Cylinder head	Aluminium alloy	
Valve train / intake	DOHC, hydraulic valve lifters, two-stage variable intake manifold, 4 valve, maintenance free chain drive	
Firing order	1 - 5 - 4 - 8 - 6 - 3 - 7 - 2	
Fuel injection / Ignition system	fully electronic management with drive-by-wire throttle control, petrol direct injection, cylinder-selective lamda control mapped ignition with solid-state high-voltage distribution, manifold-pressure controlled system	
Emission system	LEV II - 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>		
Transmission	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	3.309:1
	Reverse	3.403:1
Front Differential	Hypoid gear, electronically locking (EDL)	
Center Differential	Torque sensing differential providing automatic and variable front to rear power proportioning	
Rear Differential	Hypoid gear, electronically locking (EDL)	

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<b>STEERING:</b>					
Type	Maintenance-free rack-and-pinion steering with Servotronic variable speed-based power assist				
Ratio	16.1:1				
Turns (lock-to-lock)	2.74				
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>					
	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>BODY:</b>					
Material	Audi Space Frame construction (aluminum alloy) with aluminum alloy body panels				
Corrosion protection	Multi-step anti-corrosion protection (12 year limited warranty against corrosion perforation)				
<b>WARRANTY/MAINTENANCE:</b>					
	4-Year/50,000 mile new vehicle limited warranty 12-Month/5,000 mile (whichever occurs first) NO CHARGE first scheduled maintenance				
<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	121.0 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		
(Variance)	+/- 1 in.	+/- 25 mm	*** Ground clearance is dependent on Suspension Mode setting		
Curb weight	A8L - 4431 / A8 4343 lbs.	2009 / 1970 kg	4321 in.	1960 mm	
Drag coefficient	Cw = 0.29				
<b>INTERIOR DIMENSIONS:</b>					
Seating Capacity	5				
Head room front	37.4 in.	951 mm (sunroof standard)	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	
Int. vol. (EPA) front	52.8 cu. Ft.	1496.7 liters	52.8 cu. Ft.	1494.7 liters	
Int. vol. (EPA) rear	54.0 cu. Ft.	1529.9 liters	47.5 cu. Ft.	1345.2 liters	
Luggage volume (SAE)	14.6 cu. Ft.	412.9 liters			
<b>PERFORMANCE:</b>					
0-50 mph (0-80kmh)	4.5 sec.				
0-60 mph (0-100 km/h)	5.9 sec.				
Top speed	Electronically limited to 130 mph (209 km/h)				
<b>FUEL ECONOMY:</b>					
	EPA Fuel economy estimate				
City	16 mpg				
Highway	23 mpg				
Combined	18 mpg				