Competitors						
Technical Specifications	2005 Audi A8 L W12 qua	attro				
ENGINE:						
Туре	DOHC aluminum alloy 15° V-ang	gle and 72° bank angle W12				
Arrangement	Front mounted, longitudinal					
Bore	3.31 in. 84 mm					
Stroke	3.55 in. 90.2 mm					
Displacement	366 cu. in. 5998 cc					
Compression ratio	11.0 : 1					
Fuel requirement	Premium unleaded 91 AKI / 95 RON recommended for maximum performance					
Horsepower (SAE)	450 hp @ 6,200 rpm					
Torque	428 lbft. @ 4,000 - 4,700 rpm					
ENGINE DESIGN:						
Cylinder block	Aluminum silicon alloy (Alusil)					
Crankshaft	Forged, heat-treated steel, 7 bea	ngs, weighing 21.2 kilograms. Crankpins are offset to achieve a constant firing order as on a V6 engine.				
Cylinder head	Aluminum alloy					
Valve train / intake	DOHC, double overhead camshafts driven by a single chain, low-friction roller cam followers, 2 inlet & 2 exhaust valves per cylinder.					
	Infinitely variable timing control for camshafts (52° at inlet and 22° at exhaust valves)					
Firing order	1 - 12 - 5 - 8 - 3 - 10 - 6 - 7 - 2 - 11 - 4 - 9					
	Water-cooled, thermostatically controlled radiator fan. Water pump in cylinder block/crankcase, map-controlled electronically controlled continued coolant					
Cooling system	circulation pump, collant thermo-	stat, hydraulic fan and electric fan,	coolant circulation, and wooter cooled	alternator.		
Lubrication system	gear pump, pressure lubrication,					
Fuel injection /	Fully electronic engine manager	nent utilizing Bosch Motronic® ME7	.1.1., sequential injection with electror	nic throttle control,		
Ignition system	hot-film air-mass sensing, cylind	er selective knock control via 4 sen	sors and permanent lambda control.			
Emission system	Air gap insulated exhaust manifo	olds, 4 close-coupled 3-way cerami	c catalytic converters, 8 oxygen senso	ors.		
ELECTRICAL SYSTEM:	·					
Battery	12 volts 110 amp/	hr				
Alternator	14 volts 190 amp					
DRIVETRAIN:						
	6-speed Tiptronic transmission					
	quattro all-w	hool drive				
Туре	6-speed Tiptronic					
Gear ratios: 1st						
2nd						
3rd						
4th						
5th						
6th						
Final Drive						
Reverse						
Front Differential	Hypoid gear, electronically locking (EDL)  TORSEN® (TORque SENsing) differential providing					
Center Differential	TORSEN® (TORque SENsing) differential providing					
	automatic and variable front to rear power proportioning					
Rear Differential	Hypoid gear, electronically locki	ng (EDL)				
STEERING:						
Туре	Maintenance-free rack-and-pinio	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					
SUSPENSION:						
Fully Pneumatic	T					
-	Air Suspension Struts at all four	wheels.				
		wheels. s are continuously adjusted via sens	sors.			
<u></u>	Air Strut damping characteristics					
BRAKES:	Air Strut damping characteristics	s are continuously adjusted via sens				
	Air Strut damping characteristics Four driver-activated suspension	s are continuously adjusted via sens n settings (Dynamic, Standard, Lift,	and Automatic)	(EBD) and		
BRAKES: Service brake	Air Strut damping characteristics Four driver-activated suspension  Dual circuit brake system with di	s are continuously adjusted via sens n settings (Dynamic, Standard, Lift, iagonal split, Anti-lock Brake Syster		(EBD) and		
Service brake	Air Strut damping characteristics Four driver-activated suspension  Dual circuit brake system with di Electronic Stabilization Program	s are continuously adjusted via sens n settings (Dynamic, Standard, Lift, iagonal split, Anti-lock Brake Syster (ESP); tandem brake booster	and Automatic) m (ABS), Electronic Brake Distribution	(EBD) and		
	Air Strut damping characteristics Four driver-activated suspension  Dual circuit brake system with di	s are continuously adjusted via sens n settings (Dynamic, Standard, Lift, iagonal split, Anti-lock Brake Syster	and Automatic) m (ABS), Electronic Brake Distribution	(EBD) and		
Service brake	Air Strut damping characteristics Four driver-activated suspension  Dual circuit brake system with di Electronic Stabilization Program	s are continuously adjusted via sens n settings (Dynamic, Standard, Lift, iagonal split, Anti-lock Brake Syster (ESP); tandem brake booster	and Automatic) m (ABS), Electronic Brake Distribution pers	(EBD) and		
Service brake Front, size and type	Air Strut damping characteristics Four driver-activated suspension  Dual circuit brake system with di Electronic Stabilization Program  15.2 in. 385x36 mm	s are continuously adjusted via sens n settings (Dynamic, Standard, Lift, iagonal split, Anti-lock Brake Syster (ESP); tandem brake booster - Ventilated disc, 2 piston cali - Ventilated disc, 1 piston cali	and Automatic) m (ABS), Electronic Brake Distribution pers	(EBD) and		
Service brake Front, size and type Rear, size and type	Air Strut damping characteristics Four driver-activated suspension  Dual circuit brake system with di Electronic Stabilization Program 15.2 in. 385x36 mm 13.2 in. 335x22 mm  Electro-mechanically actuated a	s are continuously adjusted via sens n settings (Dynamic, Standard, Lift, iagonal split, Anti-lock Brake Syster (ESP); tandem brake booster - Ventilated disc, 2 piston cali - Ventilated disc, 1 piston cali	and Automatic) m (ABS), Electronic Brake Distribution pers	(EBD) and		
Service brake Front, size and type Rear, size and type Parking brake	Air Strut damping characteristics Four driver-activated suspension  Dual circuit brake system with di Electronic Stabilization Program  15.2 in. 385x36 mm  13.2 in. 335x22 mm  Electro-mechanically actuated a  Wheel & Tire Program	s are continuously adjusted via sens n settings (Dynamic, Standard, Lift, iagonal split, Anti-lock Brake Syster (ESP); tandem brake booster  - Ventilated disc, 2 piston cali - Ventilated disc, 1 piston cali t the rear wheels	and Automatic) m (ABS), Electronic Brake Distribution pers per			
Service brake Front, size and type Rear, size and type Parking brake WHEELS:	Air Strut damping characteristics Four driver-activated suspension  Dual circuit brake system with di Electronic Stabilization Program 15.2 in. 385x36 mm 13.2 in. 335x22 mm  Electro-mechanically actuated a Wheel & Tire Program  Standard 19" (C7G)	s are continuously adjusted via sens n settings (Dynamic, Standard, Lift, iagonal split, Anti-lock Brake Syster (ESP); tandem brake booster - Ventilated disc, 2 piston cali t Wentilated disc, 1 piston cali t the rear wheels  Optional 20" (CQ2)	and Automatic)  m (ABS), Electronic Brake Distribution  pers  per  No cost 18" (CG3)	Optional 18" (C3G) delayed availability		
Service brake  Front, size and type  Rear, size and type  Parking brake  WHEELS:  Size	Air Strut damping characteristics Four driver-activated suspension  Dual circuit brake system with di Electronic Stabilization Program 15.2 in. 385x36 mm 13.2 in. 335x22 mm Electro-mechanically actuated a Wheel & Tire Program Standard 19" (C7G) 8.5J x 19	s are continuously adjusted via sens n settings (Dynamic, Standard, Lift, iagonal split, Anti-lock Brake Syster (ESP); tandem brake booster  - Ventilated disc, 2 piston cali  - Ventilated disc, 1 piston cali t the rear wheels  Optional 20" (CQ2)  9J x 20	and Automatic)  m (ABS), Electronic Brake Distribution  pers  per  No cost 18" (CG3)  8.5J x 18	Optional 18" (C3G) delayed availability 8.5J x 18		
Service brake  Front, size and type  Rear, size and type  Parking brake  WHEELS:  Size  Offset	Air Strut damping characteristics Four driver-activated suspension  Dual circuit brake system with di Electronic Stabilization Program 15.2 in. 385x36 mm 13.2 in. 335x22 mm Electro-mechanically actuated a Wheel & Tire Program Standard 19" (C7G) 8.5J x 19 45 mm	s are continuously adjusted via sens n settings (Dynamic, Standard, Lift, iagonal split, Anti-lock Brake Syster (ESP); tandem brake booster  - Ventilated disc, 2 piston calit the rear wheels  Optional 20" (CQ2)  9J x 20  46 mm	and Automatic)  m (ABS), Electronic Brake Distribution  pers  per  No cost 18" (CG3)  8.5J x 18  45 mm	Optional 18" (C3G) delayed availability 8.5J x 18 45 mm		
Service brake  Front, size and type  Rear, size and type  Parking brake  WHEELS:  Size  Offset  Weight	Air Strut damping characteristics Four driver-activated suspension  Dual circuit brake system with di Electronic Stabilization Program 15.2 in. 385x36 mm 13.2 in. 335x22 mm  Electro-mechanically actuated a Wheel & Tire Program  Standard 19" (C7G) 8.5J x 19 45 mm  11,100 g / 24.5 lbs	s are continuously adjusted via sens n settings (Dynamic, Standard, Lift, iagonal split, Anti-lock Brake Syster (ESP); tandem brake booster  - Ventilated disc, 2 piston cali  - Ventilated disc, 1 piston cali t the rear wheels  Optional 20" (CQ2)  9J x 20  46 mm  14,750 g / 32.5 lbs	and Automatic)  m (ABS), Electronic Brake Distribution  pers  per  No cost 18" (CG3)  8.5J x 18  45 mm  12,800 g / 28.2 lbs	Optional 18" (C3G) delayed availability 8.5J x 18 45 mm n/a		
Service brake  Front, size and type  Rear, size and type  Parking brake  WHEELS:  Size  Offset	Air Strut damping characteristics Four driver-activated suspension  Dual circuit brake system with di Electronic Stabilization Program 15.2 in. 385x36 mm 13.2 in. 335x22 mm Electro-mechanically actuated a Wheel & Tire Program Standard 19" (C7G) 8.5J x 19 45 mm	s are continuously adjusted via sens n settings (Dynamic, Standard, Lift, iagonal split, Anti-lock Brake Syster (ESP); tandem brake booster  - Ventilated disc, 2 piston calit the rear wheels  Optional 20" (CQ2)  9J x 20  46 mm  14,750 g / 32.5 lbs  Forged alloy	and Automatic)  m (ABS), Electronic Brake Distribution  pers  per  No cost 18" (CG3)  8.5J x 18  45 mm	Optional 18" (C3G) delayed availability 8.5J x 18 45 mm		
Service brake  Front, size and type  Rear, size and type  Parking brake  WHEELS:  Size  Offset  Weight	Air Strut damping characteristics Four driver-activated suspension  Dual circuit brake system with di Electronic Stabilization Program 15.2 in. 385x36 mm 13.2 in. 335x22 mm  Electro-mechanically actuated a Wheel & Tire Program  Standard 19" (C7G) 8.5J x 19 45 mm  11,100 g / 24.5 lbs	s are continuously adjusted via sens n settings (Dynamic, Standard, Lift, iagonal split, Anti-lock Brake Syster (ESP); tandem brake booster  - Ventilated disc, 2 piston cali  - Ventilated disc, 1 piston cali t the rear wheels  Optional 20" (CQ2)  9J x 20  46 mm  14,750 g / 32.5 lbs	and Automatic)  m (ABS), Electronic Brake Distribution  pers  per  No cost 18" (CG3)  8.5J x 18  45 mm  12,800 g / 28.2 lbs	Optional 18" (C3G) delayed availability 8.5J x 18 45 mm n/a		
Service brake  Front, size and type Rear, size and type Parking brake  WHEELS:  Size Offset Weight Type	Air Strut damping characteristics Four driver-activated suspension  Dual circuit brake system with di Electronic Stabilization Program 15.2 in. 385x36 mm 13.2 in. 335x22 mm Electro-mechanically actuated a Wheel & Tire Program Standard 19" (C7G) 8.5J x 19 45 mm 11,100 g / 24.5 lbs Forged alloy	s are continuously adjusted via sens n settings (Dynamic, Standard, Lift, iagonal split, Anti-lock Brake Syster (ESP); tandem brake booster  - Ventilated disc, 2 piston calit the rear wheels  Optional 20" (CQ2)  9J x 20  46 mm  14,750 g / 32.5 lbs  Forged alloy	and Automatic)  m (ABS), Electronic Brake Distribution  pers  per  No cost 18" (CG3)  8.5J x 18  45 mm  12,800 g / 28.2 lbs  Cast alloy	Optional 18" (C3G) delayed availability 8.5J x 18 45 mm n/a Cast alloy		
Service brake  Front, size and type Rear, size and type Parking brake  WHEELS:  Size  Offset Weight Type  IIRES:	Air Strut damping characteristics Four driver-activated suspension  Dual circuit brake system with di Electronic Stabilization Program 15.2 in. 385x36 mm 13.2 in. 335x22 mm  Electro-mechanically actuated a Wheel & Tire Program  Standard 19" (C7G) 8.5 J x 19 45 mm 11,100 g / 24.5 lbs Forged alloy  Standard 19" (HT2) a/s	s are continuously adjusted via sens n settings (Dynamic, Standard, Lift, iagonal split, Anti-lock Brake Syster (ESP); tandem brake booster  - Ventilated disc, 2 piston calit the rear wheels  Optional 20" (CQ2)  9J x 20  46 mm  14,750 g / 32.5 lbs Forged alloy  Optional 20" (H9N) Perf. 1	and Automatic)  m (ABS), Electronic Brake Distribution  pers  per  No cost 18" (CG3)  8.5J x 18  45 mm  12,800 g / 28.2 lbs  Cast alloy  No cost 18" (HG7) a/s	Optional 18" (C3G) delayed availability 8.5J x 18 45 mm n/a Cast alloy 18" (HG7) a/s		
Service brake  Front, size and type Rear, size and type Parking brake  WHEELS:  Size Offset Weight Type TIRES: Size	Air Strut damping characteristics Four driver-activated suspension  Dual circuit brake system with di Electronic Stabilization Program  15.2 in. 385x36 mm  13.2 in. 335x22 mm  Electro-mechanically actuated a  Wheel & Tire Program  Standard 19" (C7G)  8.5J x 19  45 mm  11,100 g / 24.5 lbs  Forged alloy  Standard 19" (HT2) a/s  255 / 40	s are continuously adjusted via sens settings (Dynamic, Standard, Lift, iagonal split, Anti-lock Brake Syster (ESP); tandem brake booster  - Ventilated disc, 2 piston cali - Ventilated disc, 1 piston cali t the rear wheels  Optional 20" (CQ2) 9J x 20 46 mm 14,750 g / 32.5 lbs Forged alloy  Optional 20" (H9N) Perf. 1 275 / 35	and Automatic)  m (ABS), Electronic Brake Distribution  pers  per  No cost 18" (CG3)  8.5J x 18  45 mm  12,800 g / 28.2 lbs  Cast alloy  No cost 18" (HG7) a/s  255 / 45	Optional 18" (C3G) delayed availability 8.5J x 18 45 mm n/a Cast alloy 18" (HG7) a/s 255 / 45		
Front, size and type Rear, size and type Parking brake  WHEELS:  Size Offset Weight Type TIRES: Size Speed rating	Air Strut damping characteristics Four driver-activated suspension  Dual circuit brake system with di Electronic Stabilization Program  15.2 in. 385x36 mm  13.2 in. 335x22 mm  Electro-mechanically actuated a  Wheel & Tire Program  Standard 19" (C7G)  8.5J x 19  45 mm  11,100 g / 24.5 lbs Forged alloy  Standard 19" (HT2) a/s  255 / 40  V	s are continuously adjusted via sens settings (Dynamic, Standard, Lift, iagonal split, Anti-lock Brake Syster (ESP); tandem brake booster  - Ventilated disc, 2 piston cali - Ventilated disc, 1 piston cali t the rear wheels  Optional 20" (CQ2) 9J x 20 46 mm 14,750 g / 32.5 lbs Forged alloy Optional 20" (H9N) Perf. 1 275 / 35 Y	and Automatic)  m (ABS), Electronic Brake Distribution  pers  per  No cost 18" (CG3)  8.5J x 18  45 mm  12,800 g / 28.2 lbs  Cast alloy  No cost 18" (HG7) a/s  255 / 45  H	Optional 18" (C3G) delayed availability 8.5J x 18 45 mm n/a Cast alloy 18" (HG7) a/s 255 / 45 H		
Front, size and type Rear, size and type Parking brake  WHEELS:  Size Offset Weight Type TIRES: Size Speed rating Construction	Air Strut damping characteristics Four driver-activated suspension  Dual circuit brake system with di Electronic Stabilization Program  15.2 in. 385x36 mm  13.2 in. 335x22 mm  Electro-mechanically actuated a  Wheel & Tire Program  Standard 19" (C7G)  8.5J x 19  45 mm  11,100 g / 24.5 lbs Forged alloy  Standard 19" (HT2) a/s  255 / 40  V  Radial	s are continuously adjusted via sens n settings (Dynamic, Standard, Lift, iagonal split, Anti-lock Brake Syster (ESP); tandem brake booster  - Ventilated disc, 2 piston cali - Ventilated disc, 1 piston cali the rear wheels  Optional 20" (CQ2)  9J × 20  46 mm  14,750 g / 32.5 lbs Forged alloy  Optional 20" (H9N) Perf. 1  275 / 35  Y  Radial	and Automatic)  m (ABS), Electronic Brake Distribution  pers  per  No cost 18" (CG3)  8.5J x 18  45 mm  12,800 g / 28.2 lbs  Cast alloy  No cost 18" (HG7) a/s  255 / 45  H  Radial	Optional 18" (C3G) delayed availability  8.5J x 18  45 mm  n/a  Cast alloy  18" (HG7) a/s  255 / 45  H  Radial		
Front, size and type Rear, size and type Parking brake  WHEELS:  Size Offset Weight Type TIRES: Size Speed rating Construction Load Index	Air Strut damping characteristics Four driver-activated suspension  Dual circuit brake system with di Electronic Stabilization Program  15.2 in. 385x36 mm  13.2 in. 335x22 mm  Electro-mechanically actuated a  Wheel & Tire Program  Standard 19" (C7G)  8.51 x 19  45 mm  11,100 g / 24.5 lbs Forged alloy  Standard 19" (HT2) a/s  255 / 40  V  Radial  100	s are continuously adjusted via sens n settings (Dynamic, Standard, Lift, iagonal split, Anti-lock Brake Syster (ESP); tandem brake booster - Ventilated disc, 2 piston cali - Ventilated disc, 1 piston cali the rear wheels  Optional 20" (CQ2)  9J × 20  46 mm  14,750 g / 32.5 ibs Forged alloy Optional 20" (H9N) Perf. 1  275 / 35  Y  Radial 102	and Automatic)  m (ABS), Electronic Brake Distribution  pers  per  No cost 18" (CG3)  8.5J x 18  45 mm  12,800 g / 28.2 lbs  Cast alloy  No cost 18" (HG7) a/s  255 / 45  H  Radial  99	Optional 18" (C3G) delayed availability  8.5J x 18  45 mm  n/a  Cast alloy  18" (HG7) a/s  255 / 45  H  Radial  99		

Technical Speci	fications	2005 Audi A8 L W12 quattro					
BODY:							
Material		Audi Space Fran	Audi Space Frame construction (aluminum alloy) with aluminum alloy body panels				
Corrosion protectio	n	Multi-step anti-corrosion protection					
CAPACITIES:			•				
Engine oil incl. Filte	er	13 qt.	12.5 liter				
Fuel tank		23.8 gal.	90 liter				
Cooling system		19.972 qt.	18.9 liter				
XTERIOR DIMENSI	ONS:						
Wheelbase		121.0 in.	3074 mm				
Track:	front	63.7 in.	1619 mm				
	rear	63.2 in.	1605 mm				
Overall length		204.4 in.	5192 mm				
Overall width		74.6 in.	1894 mm				
Overall width	with mirrors	79.8 in.	2028 mm				
Height (unloaded)		57.3 in.	1455 mm				
Ground clearance	(loaded)	4.72 in.	120 mm	*** Ground clearance is dependent on Suspension Mode setting			
	(variance)	+/- 1 in.	+/- 25 mm	*** Ground clearance and hieght is dependent on Suspension Mode setting			
Curb weight		4729 lbs.	2145 kg				
Drag coefficient		Cw = 0.27	Fronta	I Area = 2.31 sq. m.			
NTERIOR DIMENSION	ONS (SAE meas	surements):					
Seating Capacity		4 or 5					
EPA class		Large		T			
Head room	front	37.4 in.	951 mm	(with sunroof)			
	rear	38.3 in.	974 mm				
Shoulder room	front	59.1 in.	1500 mm				
	rear	57.5 in.	1461 mm				
Leg room	front	41.3 in.	1049 mm				
	rear	42.3 in.	1075 mm				
Interior volume	front	52.8 cu. ft.	1496.7 liters				
	rear	54.0 cu. ft.	1529.9 liters				
	total	121.4 cu. ft.	3439.5 liters				
Luggage Volume (S	SAE)	14.6 cu. ft.	412.9 liters				
PERFORMANCE:							
0-50 mph (0-80kmh) 3.9 sec		sec.					
0-60 mph (0-100 km/h)		5.0 sec.					
Top speed		Top speed is electronically limited at 130 MPH (209 km/h)					
UEL ECONOMY (EI	PA estimate):						
City		15	mpg				
Highway		21	mpg				
Combined		17	mpg				
UEL ECONOMY:	Canadia	n Estimate					
City			liters/100km				
Highway		10.5	liters/100km				

<sup>1</sup> Performance tires are designed for optimum performance and handling in warm climates. They are not suitable for cold, snowy, or icy wheather conditions. If you drive under those circumstances, you should equip your vehicle with four 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 their equivalent. These high-performance tires also have a lower aspect ratio that aids performance and handling, however, in order to avoid tire, irm or vehicle damage, it is important that the inflation pressure is regularly checked and maintained at recommended levels. Serious wheel and tire damage may occur if the vehicle is operated on rough or damaged road surfaces or upon encountering road debris or obstacles. Please also remember is election that, while these tires damafling, they may ride less comfortably and make more noise than other choices. Finally, these tires may wear more quickly than otl choices. For more information on all of these topics, please consult the owner's manual, your local dealer, or call 1-800-FOR-AUDI.