

Audi of America Audi R8 (V10) 5.2 FSI quattro Technical Specifications 2010 Model Year

Technical Specifications	2010 R8 Coupe V1					
ENGINE:						
Туре	5.2 liter V10 spark-ignition engine with FSI direct Injection, 90 degree cylinder angle, 4-valve technology, double overhead camshafts (DOHC), intake manifold with charge movement flaps, naturally-aspirated high-revving setup to 8700 rpm,					
Max rpm	8700 rpm					
Arrangement	Mid mounted, longitudinal					
Bore	3.33 in. 84.5 mm					
Stroke	3.65 in. 92.8 mm					
Displacement	317.6 cu. in. 5,204 ccm					
Compression ratio	12.5:1					
Fuel requirement	Premium unleaded					
Horsepower (SAE)	525 hp @ 8000 rpm min-1 386 kW					
Max. Torque	391 lbs.ft. @ 6500 rpm min-1 530 Nm					
ENGINE DESIGN:						
Cylinder block	Aluminum alloy incorporating silicon crystals					
Connecting rods	Forged steel					
Pistons	Aluminum					
Crank case	High strength aluminum alloy casting					
Crankshaft	Forged steel, 5 main bearings					
Cylinder head						
Valve train / intake	Continuous intake and exhaust camshaft adjustment, DOHC chain driven					
Firing order	1-6-5-10-2-7-3-8-4-9					
Cooling system	Water-cooled, thermostatically controlled radiator fan					
Lubrication system	Dry sump oil system					
Fuel injection / Ignition system	FSI Direct Injection					
Emission system	Two metal primary catalytic converters, two metal main catalytic converters, four heated oxygen sensors, secondary air system					
Fuel	Super Plus ROZ 98 / Premium unlead (91 AKI)					
ELECTRICAL SYSTEM:	100000000000000000000000000000000000000					
Battery 1	10 amp/hr					
Alternator	14 volts 190 amp					
DRIVETRAIN:						
Transmission	6-speed manual transmission with launch control, Available R tronic (shift times usually less than 0.1 secs) with launch control					
Туре	5.2 FSI quattro Manual 5.2 FSI quattro R tronic					
Gear ratios: 1st /2cnd	4.373 / 2.709 4.373 / 2.709					
3rd / 4th	1.925 / 1.502 1.925 / 1.502					
5th / 6th	1.239 / 1.035 1.239 / 1.035					
Reverse	3.713 3.713					
Final Drive						
Center Differential	3.077 3.077 Viscous clutch					
STEERING:	; viscous ciucii					
Type	Hudraulically assisted reak and piping storing					
Ratio	Hydraulically assisted rack-and-pinion steering					
	17.3 38.7 ft. 11.8 m					
Turning circle (curb-to-curb) SUSPENSION:	38.7 ft. 11.8 m					
	Double aluminum wishbone front suspension (higher tuning than V8)					
Front	Double aluminum wishbone rear suspension (higher tuning than V8)					
Rear	Former manimum mainone real anabetraion finguer tuning man vol					

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Technical Specifications (cont.)						2010 R8 Coupe V1	
BRAKES:							
Service brake	Disc brakes, internally vented,	8-piston brake	callipers at front and	4-piston at rear			
Front size	14.4 in.	65 mm					
Rear size	14.0 in.	56 mm					
Parking brake	Mechanically actuated at the r	ear wheels					
WHEELS (standard only):							
Size	Front: 8.5Jx19 and Rear: 11Jx	19 alloy wheels					
TIRES (standard only):							
Size	Front: 235/35 91Y and Rear: 295/30 100Y						
BODY:							
Material	Audi space frame (ASF)						
Corrosion protection	Multi-step anti-corrosion protection						
CAPACITIES:	,wata step and corresion prote		~~~~~				
Engine oil	12.7 qt.		12.0 liter				
Fuel tank	23.8 gal.		90 liter				
Reserve	2.6 gal.		10 liter				
Cooling system	5.3 gal.		24.0 liter				
EXTERIOR DIMENSIONS:	; J.J gai.		24.0 III.61				
Wheelbase	104.3 in.		2,650 mm				
Track front / rear	64.3/ 62.8 in.	1	,632/ 1,595 mm				
	174.6 in.	!					
Overall length	· · · · · · · · · · · · · · · · · · ·		4,435 mm				
Overall width w/o mirrors	76.0 in.		1,930 mm				
Height	80.0 in.		2,029 mm				
	49.3 in.		1,252 mm				
	·	quattro Manua		 	attro R tronic		
Curb weight	3,715 lbs.	1,685	i kg	3,726 lbs.	1,690 kg		
Distribution front / rear [%]	44/56						
Drag coefficient	0.36						
INTERIOR DIMENSIONS:							
Seating Capacity	2						
EPA class	nta						
Head room	inla						
Shoulder room	n/a						
Leg room	n/a						
Int. vol. (EPA)	n/a						
Luggage capacity trunk/ behind seats	3.53 cu ft (100 liters) / 3.18 cu	ft (90 liters)					
PERFORMANCE:							
	5.2 FSI quattro Manual		5.2 FSI quattro	R tronic			
0-60 mph	3.7 sec.		3.7 sec.				
0-100 km/h	3.9 sec.		3.9 sec.				
0-200 km/h	12.0 sec.		12.0 sec.				
1/4 mile							
Top speed	196 mph 316 km	/h	196 mph	316 km/h			
Lateral acceleration	1.2 g						
FUEL ECONOMY:							
	5.2 FSI quattro Manual		5.2 FSI quattro				
	EPA estimate		EPA estima	ate_			
City	12.0 mpg	13.0 mpg					
Highway	20.0 mpg	20.0 mpg					
Combined	15.0 mpg		16.0 mpg				