

Technical Data – Audi R8 5.2 FSI quattro

Program for Germany - Status: December 2008

Model	Audi R8 5.2 FSI quattro	
Engine / electronics		
Engine type	Ten-cylinder V-90° spark-ignition engine with dry-sump lubrication, gasoline direct injection, four-valve technology, DOHC cylinder head, intake manifold with charge movement flaps	
Valve gear / number of valves per cylinder	Continuous intake and exhaust camshaft adjustment / 4	
Displacement in cc / bore x stroke in mm / compression	5204 / 84.5 x 92.8 / 12.5	
Max. power output in kW (hp) / at rpm	386 (525) / 8,000	
Max. torque in Nm (lb-ft) / at rpm	530 (390.91) / 6,500	
Engine management / mixture preparation	Fully electronic engine management Bosch MED 9.1 master-slave concept, drive-by-wire throttle control, sequential gasoline direct injection, adaptive knock control, comfort and quick-start system, mapped ignition with solid-state high-voltage distribution	
Exhaust emission control	Two metal primary catalytic converters, two metal main catalytic converters, four heated oxygen sensors, secondary air system	
Emissions class	EU 4	
Alternator in A / battery in A/Ah	190 / 520 / 110	
Drivetrain / transmission		
Drive type	quattro permanent all-wheel drive, electronic differential lock EDL, traction control ASR	
Clutch	Dual-plate clutch (diameter 215 mm (8.46 in))	
Gearbox type	6-speed manual	R tronic sequential gearbox
Gear ratio in 1st gear / 2nd gear	4.373 / 2.709	4.373 / 2.709
Gear ratio in 3rd gear / 4th gear	1.925 / 1.502	1.925 / 1.502
Gear ratio in 5th gear / 6th gear / 7th gear	1.239 / 1.035	1.239 / 1.035
Reverse gear / final drive ratio (automatic: constant ratio)	3.713 / 3.077	3.713 / 3.077
Suspension / steering / brakes		
Front suspension	Double-wishbone suspension	
Rear suspension	Double-wishbone suspension	
Steering / steering ratio / turning circle in meters (D102) (feet)	Hydraulically assisted rack-and-pinion steering / 17.3 / 11.8 (38.71)	
Brake system	Electronic stabilization program ESP with integrated ABS	
Brake disks	Ventilated and perforated at front and rear; front 365 x 34 mm (14.37 x 1.34 in), rear 356 x 32 mm (14.37 x 1.26 in)	
Wheels / tires	Front: 8.5Jx19 / 235/35ZR19; rear: 11Jx19 / 295/30ZR19	
Performance / consumption / acoustics		
Top speed in km/h (mph)	316 (196.35)	316 (196.35)
Acceleration, 0-100 / 0-200 km/h (0-62.14 / 0-124.27 mph) in s	3.9 / 12.3	3.9 / 12.0
Fuel type	Super Plus RON 98	
Fuel consumption: city / highway / combined (l/100 km) (US mpg)	22.6 / 10.2 / 14.7 (10.41 / 23.06 / 16)	20.7 / 9.6 / 13.7 (11.36 / 24.5 / 17.17)
CO ₂ mass emissions: city / highway / combined, g/km (g/mile)	540/244/351 (869.05/392.68/564.88)	495 / 229 / 327 (796.63/368.54/526.26)
Idling / drive-past exterior noise level in dB (A)	98 / 75	98 / 74
Servicing / guarantee (Germany)		
Oil change / inspection	According to service indicator up to 30,000 (18,641) (max. 2 years) ¹⁾	
Vehicle / paint / rust perforation guarantee	2 years with unlimited mileage / 3 years / 12 years	
Insurance classification in Germany: third party / fully comprehensive / part-comprehensive	17 / 31 / 29	
Weights / loads		
Unladen weight in kg (excluding driver) / gross weight limit in kg (pounds)	1620 / 1905 (3571.49 / 4199.81)	1625 / 1910 (3582.51 / 4210.83)
Axle load limit at front / rear in kg (pounds)	915 / 1090 (2017.23 / 2403.04)	915 / 1095 (2017.23 / 2414.06)
Trailer load limit, unbraked in kg (pounds)	-	-
Trailer load limit on 8% / 12% gradient, braked in kg (pounds)	-	-
Roof load limit in kg / permissible nose weight in kg (pounds)	-	-
Capacities		
Cooling system capacity (incl. heating) in liters (US gallons)	24 (6.34)	
Engine oil capacity (including filter) in liters (US quarts)	12.0 (12.68)	
Fuel tank capacity in liters (US gallons)	90 (23.78)	
Body / dimensions		
Body type	Aluminum body (ASF)	
Number of doors / seats	2 doors / 2 seats	
Drag coefficient Cd / frontal area A, m ² (square feet)	0.362 / 1.99 (21.42)	
Length / width excluding mirrors / height, empty, mm (feet)	4435 / 1930 / 1252 (14.55 / 6.33 / 4.11)	
Wheelbase / track at front/rear, empty, mm (feet)	2650 / 1638 / 1595 (8.69 / 5.37 / 5.23)	
Height of loading lip, empty, mm (feet)	-	
Luggage capacity in liters (cubic feet), according to VDA block method (V210)	100 / 90 (3.53 / 3.18)	

¹⁾ depending on driving style and operating conditions