

Technical Data Audi R8 Coupé 5.2 FSI quattro S tronic (397 kW)

Program for Germany

Status: June 2015

Engine / electronics	
Engine type	V10 gasoline engine (90° V angle) with dry sump lubrication, gasoline direct injection, four valve technology, DOHC cylinder head
Valve gear / number of valves per cylinder	Continuous intake and exhaust camshaft adjustment, roller cam followers with hydraulic support element / 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	397 (540) / 7800
Max. torque in Nm (lb-ft) / at rpm	540 (398.3) / 6500
Mixture preparation	Combined injection system: gasoline direct injection and manifold injection
Exhaust emission control	One primary catalytic converter and one main catalytic converter per cylinder bank
Emissions class	EU 6
Alternator in A / battery in A/Ah	210 water-cooled / 420/75
Start-stop system	Switches the engine off if the vehicle is stationary and the brake is engaged.
Drivetrain / transmission	
Drive type	All-wheel drive, mechanical differential lock, traction control (ASR)
Clutch	Two electrohydraulically controlled multi-plate clutches in an oil bath
Transmission type	7-speed S tronic
Gear ratio in 1st gear / 2nd gear	3.133 / 2.588
Gear ratio in 3rd gear / 4th gear	1.880 / 1.140
Gear ratio in 5th gear / 6th gear	0.898 / 0.884
Gear ratio in 7th gear / 8th gear	0.653 / -
Reverse gear / final drive ratio	2.647 /
Suspension / steering / brakes	
Front suspension	Double-wishbone suspension
Rear suspension	Double-wishbone suspension
Steering / steering ratio / turning circle in m (D102) (ft)	Basic: electromechanical steering (EPS) with $i = 15.7$ Optional: dynamic steering (EPS with ADS) with speed-dependent power assistance/ 11.2 (36.7)
Brake system	Standard: 8-piston fixed caliper brakes at front, 4-piston fixed caliper brakes at rear; wave brake disks front and rear, ventilated, perforated and floating Optional: 6-piston fixed caliper brakes at front, 4-piston fixed caliper brakes at rear; carbon fiber-reinforced ceramic brake disks with specially developed cooling ducts, ventilated, perforated and floating; electromechanical parking brake at the rear
Wheels / tires (basic)	Front axle: 8.5Jx19 /245/35 R19 ZR 93 Y XL Rear axle: 11Jx19 /295/35 R19 ZR 102Y
Performance / consumption / acoustics	
Top speed in km/h (mph)	320 (198.8)
Acceleration, 0-100 km/h (0-62.1 mph) in s	3.5
Fuel / octane value	Super Plus / 98 RON
Idling / drive-past exterior noise level in dB (A)	74
Consumption / emissions (according to tire size)	
Tire category 1: 19-inch	
Fuel consumption: city / highway / combined, in l/100 km (US mpg)	16.7 (14.1) / 8.4 (28.0) / 11.4 (20.6)
CO ₂ mass emission city / highway / combined, in g/km (g/mi)	394 (634.1) / 200 (321.9) / 272 (437.7)
Servicing / guarantee (Germany)	
Service inspection after max. km (mi)	According to service indicator up to 30,000 km (18,641.1) (max. 2 years)
Vehicle / paint / rust perforation guarantee	2 years with unlimited mileage / 3 years / 12 years
Insurance classification in Germany: third party / fully comprehensive / part-comprehensive	No details
Weights / loads	
Unladen weight according to EU (excluding driver) / (including driver) / gross weight limit in kg (lb)	Unladen weight: 1595 (3516.4) Dry weight: 1487 (3278.3) / 1670 (3681.7) / 1895 (4177.8)
Axle load limit at front / rear in kg (lb)	890 (1962.1) / 1100 (2425.1)
Trailer load limit on 8% / 12% gradient, braked / unbraked in kg (lb)	- / - / -
Roof load limit / permissible nose weight in kg (lb)	-
Capacities	
Cooling system capacity (incl. heating) in l (US gal)	24.7 (6.5)
Engine oil capacity (including filter) in l (US qt)	8.3 (8.8)
Fuel tank capacity in l (US gal)	83 (21.9)
Body / dimensions	
Body type / number of doors / seats	Coupé / 2 / 2
Drag coefficient Cd / frontal area A in m ² (sq ft)	0.36 / 2.01 (21.6)
Length (L103) / width excluding mirrors (W103) / height (H101-M) in mm (ft)	4426 (14.5) / 1940 (6.4) / 1240 (4.1) Rear overhang: 782 mm (30.8) Front overhang: 994 mm (39.1)
Wheelbase (L101) / track at front/rear (W101-1/W101-2) in mm (ft)	2650 (8.7) / 1638 (5.4) / 1599 (5.2)
Luggage capacity in l (cu ft)	112 (4.0) / capacity behind the seats: 226 (8.0)