

Technical Data – Audi R8 Spyder 5.2 FSI quattro S tronic (449 kW)

Program for Germany

Status: June 2017

Engine / electronics	
Engine type	90° V10 gasoline engine with dry sump lubrication, gasoline direct injection, four valves per cylinder, DOHC cylinder head
Valve gear / number of valves per cylinder	continuous intake and exhaust camshaft adjustment, roller cam follower 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	449 (610) / 8250
Max. torque in Nm (<i>lb-ft</i>) / at rpm	560 (413.0) / 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	EU6
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, Anti-Slip Regulation (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	1.958 / 1.244
Gear ratio in 5th gear / 6th gear	0.979 / 0.976
Gear ratio in 7th gear / 8th gear	0.841 / -
Reverse gear / final drive ratio	2.647 / I: 4.893 for reverse, 1st, 4th, 5th; II: 3.938 for 2nd, 3rd, 6th, 7th
Suspension / steering / brakes	
Front suspension	double-wishbone suspension
Rear suspension	double-wishbone suspension
Steering / steering ratio / turning circle in m (D102) (<i>ft</i>)	Basic: electromechanical steering with $i = 15.7$ Optional: dynamic steering with speed-dependent ratio / 11.2 (36.7)
Brake system	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 rear
Wheels / tires (basic)	Lightweight forged aluminum wheels / front: 8.5J x 19 /245/35 R19 ZR 93 Y XL; rear: 11J x 19 /295/35 R19 ZR 102Y
Performance / fuel / acoustics	
Top speed in km/h (<i>mph</i>)	328 (203.8)
Acceleration, 0-100 km/h (0-62.1 <i>mph</i>) in s	3.3 s (with sport tires 3.2)
Fuel type / octane value	Super Plus / 98 RON
Idling / drive-past exterior noise level in dB (A)	74
Fuel consumption / emissions (according to tire size)	
Fuel consumption: city / highway / combined, in l/100 km (<i>US mpg</i>)	17.8 (13.2) / 9.5 (24.8) / 12.5 (18.8)
CO ₂ mass emission city / highway / combined, in g/km (<i>g/mi</i>)	414 (666.3) / 223 (358.9) / 292 (469.9)
Servicing / guarantee (Germany)	
Service inspection after max. km (<i>mi</i>)	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	13 / 32 / 32
Weights / loads	
Unladen weight according to EU (excluding driver) / (including driver) / gross weight limit in kg (<i>lb</i>)	1695 (3736.8) (dry weight: 1587 (3498.7)) / 1770 (3902.2) / 2035 (4486.4)
Axle load limit at front / rear in kg (<i>lb</i>)	940 (2072.3) / 1180 (2601.5)
Capacities	
Cooling system capacity (incl. heating) in l (<i>US gal</i>)	24.7 (6.5)
Engine oil capacity (including filter) in l (<i>US qt</i>)	8.3 (8.8)
Fuel tank capacity in l (<i>US gal</i>)	80 (21.1)
Body / dimensions	
Body type / number of doors / seats	Audi Space Frame ASF / 2 / 2
Drag coefficient Cd / frontal area A in m ² (<i>sq ft</i>)	0.365 / 2.01 (21.6)
Length (L103) / width excluding mirrors (W103) / height (H101-M) in mm (<i>ft</i>)	4426 (14.5) / 1940 (6.4) / 1244 (4.1)
Wheelbase (L101) / track at front/rear (W101-1/W101-2) in mm (<i>ft</i>)	2650 (8.7) / 1638 (5.4) / 1599 (5.2)
Luggage capacity / with rear seat bench folded in l (<i>cu ft</i>)	112 (4.0) / -