

# Technical Data – Audi R8 Spyder 5.2 FSI quattro S tronic (397 kW)

Program for Germany

Status: August 2016

<b>Engine / electronics</b>	
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	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
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
<b>Drivetrain / transmission</b>	
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	1.880 / 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 / I: 4.458 for reverse, 1st, 4th + 5th, II: 3.588 for 2nd, 3rd, 6th + 7th
<b>Suspension / steering / brakes</b>	
Front suspension	Double-wishbone suspension
Rear suspension	Double-wishbone suspension
Steering / steering ratio / turning circle in m (D102) (ft)	Basic: electromechanical steering with $i = 15.7$ Optional: dynamic steering with speed-dependent ratio / 11.2 (36.7)
Brake system	Standard: 8-piston fixed caliper brakes at front, 4-piston fixed caliper brakes at rear; wave brake discs 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	Forged aluminum wheels / front: 8.5J x 19 / 245/35 R19 ZR 93 Y XL; rear: 11J x 19 / 295/35 R19 ZR 102Y
<b>Performance / fuel / acoustics</b>	
Top speed in km/h (mph)	318 (197.6)
Acceleration, 0-100 km/h (0-62.1 mph) in s	3.6
Fuel / octane value	Super Plus / 98 RON
Idling / drive-past exterior noise level in dB (A)	74
<b>Consumption / emissions</b>	
Fuel consumption: city / highway / combined, in l/100 km (US mpg)	17.0 (13.8) / 8.7 (27.0) / 11.7 (20.1)
CO <sub>2</sub> mass emission city / highway / combined, in g/km (g/mi)	400 (643.7) / 204 (328.3) / 277 (445.8)
<b>Servicing / guarantee (Germany)</b>	
Service inspection after max. km (mi)	According to service indicator, depending on driving style and operating conditions between 15,000 km (9,320.6 mi) or 1 year and 30,000 km (18,641.1 mi) or 2 years
Vehicle / paint / rust perforation guarantee	2 years / 3 years / 12 years
Insurance classification in Germany: third party / fully comprehensive / part-comprehensive	13 / 32 / 32
<b>Weights / loads</b>	
Unladen weight according to EU (excluding driver) / (including driver) / gross weight limit in kg (lb)	1720 (3792.0) / 1795 (3957.3) / 2020 (4453.3)
Axle load limit at front / rear in kg (lb)	945 (2083.4) / 1185 (2612.5)
<b>Capacities</b>	
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)	80 (21.1)
<b>Body / dimensions</b>	
Body type / number of doors / seats	Aluminum: Audi Space Frame ASF / 2 / 2
Drag coefficient Cd / frontal area A in m <sup>2</sup> (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) / 1244 (4.08)
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 liters (cu ft), according to VDA block method (V211)	112 (4.0)