

RSV4

aprilia racing

a PRC



Aprilia Performance Ride Control (APRC):

Aprilia Traction Control (ATC) The most advanced traction control system on the market. It's the only motorcycle TC system that can be adjusted on the move instantly without shutting the throttle and automatically adjusts to suit if you change your tyres. Features 8 level settings, so you can turn it down for track use or up for wet road riding on the go.

Aprilia Wheelie Control (AWC) – Identifies the start of wheelie and controls it to maximise acceleration whilst keeping the front end down. Features 3 settings.

Aprilia Launch Control (ALC) – Optimises acceleration from a standing start. For track/race use, with 3 settings.

Aprilia Quick Shift (AQS) — for ultra-fast clutchless up-shifting.

2011 Aprilia RSV4 R APRC Technical Specifications:

Engine: Aprilia 65° V4, 4-stroke, liquid cooled, DOHC, four valves per cylinder.

Bore x Stroke: 78 x 52.3 mm

Total displacement: 999.6 cc

Compression ratio: 13:1

Maximum power at the crank: 180 HP (132.4 kW) at 12,250 rpm

Maximum torque at the crank: 115 Nm at 10,000 rpm

Fuel system: Airbox with front dynamic air intakes. 4 Weber-Marelli 48-mm throttle bodies with 8 injectors and latest generation Ride-by-Wire engine management. Choice of three different engine maps selectable by the rider with bike in motion: T (Track), S (Sport), R (Road)

Ignition: Magneti Marelli digital electronic ignition system integrated in engine control system, with one spark plug per cylinder and "stick-coil"-type coils.

Starting: Electric

Exhaust: 4 into 2 into 1 layout, single oxygen sensor, single silencer with engine control unit-controlled butterfly valve and integrated trivalent catalytic converter (Euro 3).

Generator: Flywheel mounted 420W alternator with rare earth magnets.

Lubrication: Wet sump lubrication system with oil radiator and two oil pumps (lubrication and cooling).

Gear box: 6-speed cassette type gearbox with Aprilia Quick Shift electronic system (AQS)

Clutch: Multiplate wet clutch with mechanical slipper system.

Primary drive: Straight cut gears and integrated flexible coupling, drive ratio: 73/44 (1,659).

Final drive: Chain, Drive ratio: 42/16 (2.625).

Frame: Twin-spar aluminium frame

Front suspension: Sachs USD 43mm forks. Fully adjustable. Wheel travel: 120 mm.

Rear suspension: Fully adjustable Sachs shock absorber. Wheel travel: 130mm.

Front brakes: Front: Dual 320mm floating stainless steel discs with lightweight stainless steel rotor and aluminium flange with 6 pins. Brembo monobloc radial 4-piston calipers with sintered pads. Radial pump and metal braided brake hoses.

Rear brakes: 220-mm diameter disc; Brembo floating 2-piston caliper with two 32mm isolated pistons. Pump with integrated tank and metal braided hoses.

Wheels: Aprilia forged aluminium alloy rims, completely machined, 5 split spokes.

Front: 3.5"X17" Rear: 6"X17"

Tyres: Radial tubeless. Front: 120/70 ZR 17 Rear: 190/55 ZR 17

Dimensions: Max. Length: 2040mm, Max. Width: 735mm (at the handlebar), Max. Height: 1120mm, Min. height from the ground: 130mm, Saddle height: 845mm, centre to centre distance: 1420mm, Trail: 105mm, Steering angle: 24.5°

Dry weight: 182kg

Fuel tank capacity: 17litres (4litre reserve)

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Motorcycles