





Porsche 911 RSR (Type 991)
Model Year 2015 – Vehicle Description
FIA WEC Specification



**Concept:** 

Single-seat production based race car

. Base: 911 C4 type 991

**Engine:** 

- · Naturally aspirated engine with intake above rear side panel
- · Water cooled four valve flat six cylinder engine
- . 3,996 cc; stroke 80.4 mm; bore 102.7 mm
- · Required fuel quality: 98 octane, unleaded
- Dry sump lubrication
- Sequential multi-point fuel injection
- Returnless fuel system
- Modular light weight race exhaust system
- Muffler with twin, centrally aligned tail pipes
- Additional oil tank
- · Quick oil refill system via front deck lid

**Transmission:** 

- Newly developed Porsche six-speed racing gearbox with pneumatic paddle shift system
- Gear Ratios:

CW & P Gear 14/22 i = 1.571
 Final drive 17/41 i = 2.412

1st – 6th gear according customer request

- · Internal pressure-oil lubrication with active oil cooling
- Mechanical limited slip differential with viscous unit
- · Single-mass flywheel
- Triple-disc-carbon racing clutch with forged housing
- Hydraulic operated central clutch operator
- Oil-water heat exchanger





# **Bodywork:**

- Lightweight bodywork with smart aluminum-steel composite construction based on 911 C4 type 991 with add-on carbon parts
- Removable roof section to apply KED
- Rescue bar analogue DTM system
- Carbon add-on parts:
  - Front end cover with front lip
  - Air intake and outlet for center cooler
  - Front deck lid with louvers
  - Fender and wheel house protectors
  - Sill covers
  - Doors with side-screen frame and plastic mirrors
  - · Rear wheel arch extensions with side intake air duct
  - Rear wheel arch cover
  - · Rear deck lid with adjustable rear wing
  - Rear end cover with wheel house air de-ventilation
- · Quick demount couplings for front and rear end cover
- Closed flat bottom with rear diffuser
- Pedal box
- Built-in air jack system (four legs) with safety pressure valve
- · Race bucket seat (driver side only) with fire retardant upholstered cover
- Six-point safety harness modified for use with HANS
- Electrically activated fire extinguisher system
- Approx. 94I FT3 safety fuel cell
- Heated glass windscreen
- Modified 911 cockpit:
  - Magnesium sub-frame in light weight design
  - Ergonomic driver-oriented center console
  - Switch mask with fluorescent lettering
  - Multi-function steering wheel with quick release coupling, control panel and shift paddles

# **Suspension:**

### Front axle:

- Double wishbone type front axle
- Four-way Multimatic shock absorbers
- · Twin coil spring setup (main and helper spring) with adjustable platform
- Adjustable anti roll bar via both side blades
- Electro-hydraulic servo assisted steering

## Rear axle:

- · Multi-link rear axle
- Four-way Multimatic shock absorbers
- · Twin coil spring setup (main and helper spring) with adjustable platform
- Adjustable anti roll bar via both side blades
- Tripod type driveshafts

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# **Brake system:**

Two independent brake circuits for front and rear axle, adjustable by the driver via brake balance system

# Front axle:

- Aluminum six-piston racing calipers with quick release coupling in single-piece design
- Ventilated steel brake discs, D = 380 mm
- Race brake pads
- · Optimised brake cooling ducts

#### Rear axle:

- · Aluminum four-piston racing calipers with quick release coupling in single-piece design
- Ventilated steel brake discs, D = 355 mm
- Race brake pads
- · Optimised brake cooling ducts

# **Rims/ Tires:**

#### Front axle:

- Forged single piece aluminum rims (BBS) 12.5J x 18 offset 25 with center-lock nut
- Michelin transportation tires 30/68-18

## Rear axle:

- Forged single piece aluminum rims (BBS) 14J x 18 offset 50 with center-lock nut
- Michelin transportation tires 31/71-18



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## **Electrics:**

- COSWORTH ICD color display with integrated data acquisition
- · COSWORTH IPS programmable multi-function system control unit
- COSWORTH telemetry
- Bosch MS 5.0 Engine control unit
- Electric throttle
- · Shiftec Paddleshift system
- Electrically adjustable mirrors with memory function
- Rear view camera
- Bosch data recorder C50 without WinDarab licence
- Oil level indication via telemetry and level sensor in the oil tank
- . Battery: 12 V 18 AH lithium ion
- 140 A Alternator
- Damper travel sensors
- · Tire pressure monitoring system
- Brake disc temperature sensors
- Driver drink system
- Light-weight car wiring loom (with ACO logging connection)
- Lighting system:
  - · Xenon main and additional (4x) headlights
  - . LED rear lighting system and rain light
  - Leader Light System
- · Air conditioning system:
  - · Air conditioning lines including quick release couplings
  - Compressor in gearbox area
  - · Condenser in vehicle front
  - Fabric cockpit separation panel
  - Temperature sensor





**Weight/Dimensions:** • Weight approx. 1,220 kg (ACO)

• Total length: 4,537 mm

Total width: 1,962 mm (FA), 2,002 mm (RA)

Wheel base: 2,465 mm

**Colours:** Body: grey light weight color

Exterior: Carbon

Interior: White primer without clear lacquer

**Options:** 1. Bosch WinDarab Software licence

2. Tire temperature sensors

3. Ride height sensors

4. Thermostat

5. Data logger ACO