

Technical Data

Porsche 911 Challenge (Generation 992.2) Model Year 2027

Concept

- Single-seater customer race car
- Base: 911 GT3 (992.2)

Weight/dimensions

- Base weight*: approx. 1,450 kg
- Total length: 4,570 mm
- Total width: 1,852 mm (front axle) / 1,852 mm (rear axle)
- Wheelbase: 2,457 mm

*approximate production vehicle weight equipped with transport tires and an additional ballast mounting plate (approx. 18kg / 40lb) on the passenger side

Engine

- Water-cooled six-cylinder boxer rear engine; displacement 3,996 cm³, stroke 81.5 mm, bore 102.0 mm; max. 379 kW (515 PS) at 8,500/min; max. torque 470 Nm at 6,250/rpm; max. rpm 9,000/min; four-valve technology; camshafts with extended valve opening times, flow-optimised single throttle system; intake manifold with two resonance flaps; Production-car based engine control unit; dry-sump lubrication with oil-water heat exchanger; Dual-mass flywheel; modified road car silencer without soot particle filter and with catalytic converter; fuel quality: Superplus unleaded to E20 (min. 98 octane), eFuels (in accordance with FIA Appendix J)

Transmission

- 7-speed Porsche Doppelkupplung (PDK); short gear ratios based on the 911 GT3 road car; electronically controlled limited-slip differential with driver-adjustable settings; Steering-wheel-mounted paddle shifters; automatic or manual gear shifting available

Body

- Lightweight body featuring intelligent aluminium-steel composite design; welded-in roll-cage, approved for co-driver use on circuits; front cover with integrated quick-release fasteners, cooler exit-air duct and central air intake for cockpit ventilation; aerodynamically optimised front underbody; boot lid with integrated rain light in accordance with FIA regulations; modified production car doors, 911 GT3-production car rear engine cover; adjustable rear wing with 'swan neck' mounting (4 positions); integrated air-jack system (three jacks) with valve mounting on passenger side below windshield; 110-litre FT3 safety fuel cell in front
- Production car interior optimised for racing featuring the removal of airbags, carpeting, insulation and interior trim panels; air conditioning; adapted 911 GT3 RS steering wheel with shift paddles and rotary switches for ABS-, TC-/ESC-, PTV+-settings as well as tire selection, push buttons for Pitspeed- and Full-Course-Yellow-Limiter; seat in accordance with FIA Standard 8862/2009, infinite longitudinal adjustment, two positions for height and inclination; interchangeable padding system in three sizes; preparation for seat ventilation; six-point racing safety harness, for use with HANS®; adjustable steering column with steering angle sensor; safety nets (centre and driver's side) in accordance with latest FIA safety regulations; fire extinguisher system with electronic release unit; ballast base plate for vehicle weight balancing and optional equipment mounting

Suspension

- Forged aluminium control arms & top mounts, stiffness optimised; heavy-duty spherical bearings with dust protection; wheel hubs with 5-stud connection; shock absorbers with motorsport-specific valve characteristic; three-way adjustable anti-roll bar; tyre pressure and temperature monitoring system

Front axle

- Double wishbone front suspension, adjustable ride height, camber and toe
- Electric power steering with reduced turning circle

Rear axle

- Multilink rear suspension, adjustable in ride height, camber and toe

Brakes

- Two independent brake circuits incorporating front and rear axle brake pressure sensors; driver adjustable brake force distribution via brake balance system; racing brake pads; optimised brake ducts; enlarged brake fluid reservoir with integrated bracket for brake fluid level sensor; pressure sensor as brake light switch
- ABS with adjustable intervention levels; Racing-optimised Porsche Stability Management / Traction Control (ESC/TC) with adjustable intervention levels
- Front axle: Six-piston aluminium monobloc racing brake callipers with 'anti knock-back' piston springs; ventilated steel brake discs with a diameter of 380 mm and 35 mm cross-section; enlarged brake pad friction surface; aluminium brake disc chamber
- Rear axle: Four-piston aluminium monobloc racing brake callipers with 'anti knock-back' piston springs; ventilated 380 mm x 32 mm steel brake discs mounted on aluminium disc bells; aluminium brake disc chamber

Wheels / Tyres

- Front axle: Single-piece forged alloy rims with 5-hole connection, dimension 10.5 J x 18; tire size 27/65-18

- Rear axle: Single-piece forged alloy rims with 5-hole connection, dimension 12 J x 18; tire size 31/71-18

Electrical system

- Road-car cockpit with adapted race-car display content; Porsche Logger Unit for motorsport-specific basic data acquisition; high precision GPS for track positioning and lap time recording; leak-proof battery 12V, 70 Ah installed in co-driver's footwell; 175 A alternator; single-arm windscreen wiper with direct drive (intermittent and continuous operation); data connection (data logger, video system); electric power emergency disconnect switch (inside / outside) according to FIA regulations
- LED main headlights with integrated daytime running lights; taillights and LED rainlight

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