
2027 FIA FORMULA 1

TECHNICAL REGULATIONS GUIDE

- Based exclusively on: FIA 2027 F1 Regulations Section C [Technical] Issue 02 05 August 2026
- **ARTICLE C1 GENERAL PRINCIPLES**
- **C1.1 Amendments to these Technical Regulations**
- Changes that are not specifically related to the Power Unit or are of a formal nature are not subject to the approval of the PU Manufacturers.
- Material changes relating to the Power Unit are subject to the prior approval of the PU Manufacturers in accordance with the 2026 F1 PU Governance Agreement.
- **C1.2 Dangerous Construction**
- The Stewards may prohibit the participation of a car whose construction is considered dangerous.
- If the relevant information arises during a session, the decision may be applied immediately.
- **C1.3 Compliance with the Regulations**
- Formula 1 cars must comply fully with these regulations during a Competition.
- When requesting clarification for a new design or system, a full description, drawings or diagrams, short and long term effects, and the performance effect must be provided.
- **C1.4 New Systems or Technologies**
- A new system, procedure or technology that is permitted by the FIA and is not specifically covered by the regulations may be accepted until the end of the Championship in which it is introduced.
- The Formula One Commission may subsequently review the technology and it may be prohibited by the FIA.
- **C1.5 Duty of Competitor and PU Manufacturer**
- The Competitor is required to demonstrate to the FIA and the Stewards that its car complies with the regulations.
- In relation to the Power Unit, this responsibility also extends to the PU Manufacturer.
- The FIA may compare the physical car with CAD models and may inspect electronic systems through hardware, software and data.
- **ARTICLE C2 CONVENTIONS AND FUNDAMENTAL DIMENSIONS**
- **C2.1 Coordinate Systems and Conventions**

- The Car Coordinate System defines X as the longitudinal direction, Y as the transverse direction and Z as the vertical direction. X increases rearwards, Y increases towards the driver's right and Z increases upwards.
- **C2.2 Principal Planes**
- The following reference planes are defined: $Z = 0$, $Y = 0$, $X_A = 0$, $X_C = 0$, $X_F = 0$, $X_R = 0$, $X_{DIF} = 0$, $X_{PU} = 0$, and $X_{FIS} = 0$.
- **C2.3 Fundamental Dimensions**
- Fundamental dimensions are defined for vehicle width, height, wheelbase, front wheel position, cockpit position, rear bulkhead position and the exhaust exclusion zone.

• **ARTICLE C3 AERODYNAMIC COMPONENTS**

- **C3.1 Aerodynamic Components or Bodywork**
- Aerodynamic Components or Bodywork are vehicle components that are in contact with the External Air Stream.
- The regulations define which components are and are not considered Bodywork.
- **C3.2 General Principles**
- The objectives are to encourage close racing and to ensure that aerodynamic performance remains compatible with Power Unit performance.
- Rules cover rigid construction, immobility, continuous surface, symmetry, trim and combination, fillet and edge radius, pressure tappings and tangency continuity.
- **C3.3 Legality Checking**
- Aerodynamic legality may be assessed digitally using CAD models.
- During a Competition, cars may be measured for compliance with CAD models and Reference Volumes.
- **C3.4 Component Definition**
- Permitted structures and reference systems are defined for Sprung Mass Bodywork, Wheel Bodywork, Suspension Fairings and Hanger Bodywork.
- **C3.5 to C3.19**
- Floor Bodywork; Plank and Skids; Front Bodywork; Rear Bodywork; Tail and Exhaust Tailpipe; Front Wing; Rear Wing; Final Assembly; another Bodywork; Wheel Components; Wheel Bodywork Assembly; Apertures; Suspension and Driveshaft Fairings; Aerodynamic Component Flexibility; Aerodynamic Component Construction.
- **ARTICLE C4 MASS**
- **C4**
- Minimum Mass; Mass Distribution; Ballast; additions during the Race or Sprint; Driver Mass and Driver Ballast; Heat Hazard Mass Increase; Nominal Tyre Mass.
- **ARTICLE C5 POWER UNIT**
- **C5**
- Engine Specification; Power Unit Energy Flow; Turbo Charger; Power Unit geometric limitations; Mass and Centre of Gravity; Engine Intake Air; Variable Geometry Systems;

Exhausts; Fuel Systems; Ignition Systems; Ancillaries; Power Demand; Power Unit Control; Engine High Rev Limits; Starting the Engine; Stall Prevention Systems; Energy Recovery System; MGU-K; Energy Store; ERS Electrical Safety; Oil/Coolant Systems; Single ICE Mode.

- **ARTICLE C6 FUEL SYSTEM**

- **C6**

- Fuel Tanks; Fittings and Piping; Fuel Tank Fillers; Refuelling; Fuel Draining and Sampling; Fuel System Hydraulic Layout.

- **ARTICLE C7 OIL AND COOLANT SYSTEMS AND CHARGE AIR COOLING**

- **C7**

- Lubricating Oil Tanks; Lubricating Oil System; Oil and Coolant Lines; Heat Exchangers.

- **ARTICLE C8 ELECTRICAL SYSTEMS**

- **C8**

- Software and Electronics Inspection; Control Electronics; Start Systems; Data Acquisition; Telemetry; Driver Inputs and Information; Master Switch; Driver Radio; Accident Analysis; Accident Data; FIA Marshalling System; Track Signal Information Display; Impact Warning System; Electrical System Installation; Timing Transponders; Cameras and Camera Housings; Electromagnetic Radiation; Sensor Signals.

- **ARTICLE C9 TRANSMISSION SYSTEM**

- **C9**

- Fundamental Provisions; Clutch Control; Clutch Disengagement System; Homologated Gearbox and Component Classification; Gearbox Dimensions; Gear Ratios; Reverse Gear; Gear Changing; Torque Transfer Systems; Driveshafts; Structural Connection to Survival Cell.

- **ARTICLE C10 SUSPENSION, STEERING SYSTEMS, WHEELS AND TYRES**

- **C10**

- Legality Setup; Sprung Suspension; Outboard Suspension; Inboard Suspension; Steering; Suspension Uprights; Wheel Rims; Tyres; Wheel Attachment and Retention; Dimensions.

- **ARTICLE C11 BRAKE SYSTEM**

- **C11**

- Brake Circuits and Pressure Distribution; Brake Callipers; Brake Discs and Pads; Brake Pressure Modulation; Liquid Cooling; Rear Brake Control System; Supply of Brake Friction and Brake System Hydraulic Components.
- **ARTICLE C12 SURVIVAL CELL**
- **C12**
- General Requirements; Survival Cell Specifications; Intrusion Protection; Roll Structures; Cockpit Specification; Cockpit Padding; Front Floor Structure; Seat Fixing and Removal; Driver Fit Information.
- **ARTICLE C13 SAFETY STRUCTURES AND HOMOLOGATION**
- **C13**
- General Principles; Survival Cell Frontal Impact Test; Roll Structure Testing; Survival Cell Load Tests; Side Impact Structure; Front Impact Structure; Rear Impact Structure; Steering Column Impact Test; Headrest Load Test; Wheel Rim Impact Test.
- **ARTICLE C14 SAFETY EQUIPMENT**
- **C14**
- Fire Extinguishers; Rear View Mirrors; Rear Lights; Safety Tethers; Safety Harnesses; Driver Cooling System; Lateral Safety Lights; Driver's Drink System.
- **ARTICLE C15 MATERIALS**
- **C15**
- General Principles; Permitted Materials; Specific Prohibitions and Restrictions; Specific Exceptions; Prescribed and Homologated Laminates; Materials and Construction inside the PU Perimeter; ERS and Electronic Systems; Pressure Charging and Exhaust Systems.
- **ARTICLE C16 FUEL AND ENGINE OIL**
- **C16**
- Basic Principles; Fuel Properties; Composition of Fuel; Fuel Approval; Fuel Sampling and Testing; Engine Oil Definitions; Engine Oil Properties; Composition of Engine Oil; Engine Oil Approval; Sampling and Testing; Recycling of Engine Oil.
- **ARTICLE C17 COMPONENTS' CLASSIFICATION**
- **C17**
- Listed Team Components (LTC); Standard Supply Components (SSC); Transferable Components (TRC); Free Supply Components (FSC); Open Source Components (OSC / OSCNT); Defined Specification Components (DSC).
- Open Source The Design Specifications for Components, as determined by the FIA, requires that the components reside on the specified server and be accessible to F1 Teams
- **ARTICLE C18 POWER UNIT COMPONENTS' CLASSIFICATION**
- **C18**

- Power Unit components: Listed Power Unit Component (LPUC); Standard Supply Power Unit Component (SSPUC); Open Source Power Unit Component (OSPUC); Defined Specification Power Unit Component (DSPUC).
- In case of doubt, the FIA shall be consulted and the FIA may determine the classification of a particular PU component.
- **APPENDICES**
- **Appendix C1 Definitions**
 - The definitions apply to all Sections of the Regulations unless specifically stated otherwise.
- **Appendix C2 Regulation Volumes**
 - Regulation Volumes and related geometric references.
- **Appendix C3 Drawings**
 - Technical drawings.
- **Appendix C4 Power Unit Systems, Functions, Components and Supply Perimeter**
 - Power Unit systems, functions, components and supply perimeter information.
- **Appendix C5 Homologation and Development of Power Units, Fuel and Oil for 2026 to 2030**
 - Homologation and development provisions for Power Units, fuel and oil.
- **Appendix C6 Components' Classification and Perimeter**
 - Component classification and perimeter information.
- **Appendix C7 Approved Changes for Future Years**
 - Approved changes for future years.

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 You can **contact me** for **any questions** or **complaints**

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