



Real Federación Española
de Automovilismo

EUROCUP#3

2024 TECHNICAL REGULATION



Fecha de aprobación	Artículo modificado	Fecha de aplicación
TBC	TBC	TBC

2024 EUROCUP 3 TECHNICAL REGULATIONS

Everything which is not explicitly authorized:

- in these regulations,
- in the Tatuus & Alfa Romeo part classification's nomenclature,
- in the Tatuus & Alfa Romeo User Manual,
- in the Tatuus & Alfa Romeo FIA Homologation Form,
- and any official Eurocup 3 technical bulletins, that may be published during the 2024 Eurocup 3 season,
IS STRICTLY FORBIDDEN

All these documents will be issued to each Competitor registered for the 2024 Eurocup 3 season.

IMPORTANT: All competitors must ensure that every person of their technical staff that have to work on the car of their team has access to all the necessary technical documentation needed to operate the Eurocup 3 in conformity with the present regulations. Being not aware of a technical document released by the Championship Promoter during the season will not be retained as a relevant point in case of protest.

Only the official measuring tools of length, mass, pressure or capacity used by the Eurocup 3 Technical Scrutineers will be retained as valid for the measured values. All these tools must comply with the General Prescriptions of the Real Federación Española de Automovilismo. All the tools will be available for the competitors during the 2024 Eurocup 3 season to make their own measures or to calibrate their own tools.

The following technical regulations applying to Eurocup 3 are issued by the Championship Promoter in agreement with the Real Federación Española de Automovilismo.



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1. DEFINITIONS

1.1. Eurocup 3 ~~Formula~~ car

Automobile designed solely for speed races on circuits or closed courses.

1.2. Automobile

Land vehicle running on at least four non-aligned complete wheels, of which at least two are forsteering and at least two for propulsion.

1.3. Land vehicle

A locomotive device propelled by its own means, moving by constantly taking real support on the earth's surface, of which the propulsion and steering are under the control of a driver aboardthe vehicle.

1.4. Bodywork

All entirely sprung parts of the car in contact with the external air stream, except cameras, camera housings, the secondary roll structure and associated fixings and fairings and the parts definitely associated with the mechanical functioning of the Power Unit, transmission and running gear. Airboxes and radiators are considered to be part of the bodywork.

1.5. Wheel

Flange and rim. Complete wheel: Flange, rim and tyre.

1.6. Complete wheel

Wheel and inflated tyre. The complete wheel is considered part of the suspension system.

1.7. Automobile make

In the case of Formula racing cars, an automobile make is a complete car. When the car manufacturer fits a Power Unit which it does not manufacture, the car shall be considered a hybrid and the name of the Power Unit manufacturer shall be associated with that of the car manufacturer. The name of the car manufacturer must always precede that of the Power Unit manufacturer.

Should a hybrid car win a Championship Title, Cup or Trophy, this will be awarded to the manufacturer of the car.

~~1.8. Event~~

~~An event shall consist of official practice and the race.~~

1.9. Weight

~~Is the weight of the car with the driver, wearing his complete racing apparel, at all times duringthe event.~~

Is the weight of the car in running order with the driver aboard wearing his equipment and all fuel tanks as they are.

1.10. Engine cubic capacity

The volume swept in the cylinders of the engine by the movement of the pistons. This volume shall be expressed in cubic centimeters. In calculating engine cubic capacity, the number π shallbe 3.1416.

1.11. ~~Pressure~~ Supercharging

Increasing the weight of the charge of the fuel/air mixture in the combustion chamber (over theweight induced by normal atmospheric pressure, ram effect and dynamic effects in the intake and/or exhaust system) by any means



whatsoever. The injection of fuel under pressure is not considered to be supercharging.

1.12. Intake system

All the elements between the cylinder head and the external side of the air restrictor.

1.13. Main structure

The fully sprung structure of the vehicle to which the suspension and/or spring loads are transmitted, extending longitudinally from the foremost front suspension on the chassis to the rearmost one at the rear.

1.14. Sprung suspension

The means whereby all complete wheels are suspended from the body/chassis unit by a spring medium.

1.15. Active suspension

Any system which allows control of any part of the suspension or of the trim height when the car is moving.

1.16. Cockpit

The volume which accommodates the driver.

1.17. Survival cell

A continuous closed structure containing all fuel tanks and the cockpit.

1.18. Composite structure

Non-homogeneous materials which have a cross-section comprising either two skins bonded to each side of a core material or an assembly of plies which form one laminate.

1.19. Telemetry

The transmission of data between a moving car and anyone connected with the entry of that car.

1.20. Semi-automatic gearbox

One which, when the driver calls for a gear change, takes over the control of one or more of the Power Unit, clutch and gear selectors momentarily to enable the gear to be engaged.

1.21. Cockpit padding

Non-structural parts placed within the cockpit for the sole purpose of improving driver comfort and safety. All such material must be quickly removable without the use of tools.

1.22. Electronically controlled

Any command system or process that utilises semi-conductor or thermionic technology.

1.23. Open and closed sections

A section will be considered closed if it is fully complete within the dimensioned boundary to which it is referenced, if it is not it will be considered open.

1.24. Engine

The internal combustion engine including ancillaries, sensors, actuators and control systems necessary for its proper function.

1.25. Power Unit



The engine, complete with its ancillaries, the energy recovery system and all sensors, actuators and control systems necessary to make them function at all times.

~~1.26. Energy Recovery System (ERS)~~

~~A system that is designed to recover energy from the car, store that energy and make it available to propel the car and, optionally, to drive any ancillaries and actuation systems necessary for its proper function.~~

~~1.27. Motor Generator Unit (MGU)~~

~~The Motor Generator Unit is the electrical machine mechanically linked to the powertrain as part of the ERS.~~

~~1.28. Energy Store (ES)~~

~~The part of ERS that stores electrochemical or mechanical energy, including its safety control electronics and a minimal housing.~~

~~1.29. DC-DC Converter~~

~~An electronic circuit connected to the Energy Store and whose function is to regulate multi-level voltage outputs for use by the electrical and electronic components of the car and power unit. A DC-DC converter may only consume energy from the energy store and cannot recover energy into the Energy Store. The components directly supplied by the DCDC or indirectly supplied through the non-ERS energy storage cannot be used to propel the car or to provide energy to the pressure charging system.~~

1.30. Auxiliary circuit

The auxiliary circuit includes the ECU, engine actuators, auxiliary battery, alternator (if fitted), fuel pump, rain light, radio, camera, logger, GCU, gearshift compressor and/or gear shift actuators.

1.31. Power circuit

The power circuit consists of all those parts of the electrical equipment that are used for driving the vehicle. It includes the ES, its safety management, the inverter, the MGU, cables and harnesses.

~~1.32. Maximum working voltage~~

~~Highest value of AC voltage (rms) or of DC voltage that can occur under any normal operating conditions according to the manufacturer's specifications, disregarding transients and ripple.~~

~~1.33. Battery management system (BMS)~~

~~The BMS is a set of important safety systems of the ES. It must detect internal faults and must trigger power reduction delivered from/to the battery or shutdown the ERS if the BMS considers that the ES is operating unsafely.~~

~~1.34. ES cells~~

~~The elementary part of the ES that produces and stores electricity through electro-chemical reactions.~~

1.35. Single supplier parts

The following parts must be from a single supplier for all competitors in a championship:

- Engine including ECU and mechanical engine installation such as bellhouse, spaceframe, brackets, etc.- Gearbox including optional paddle shift system.
- Suspension dampers.
- Rims.



1.36. Car center line

The straight line running through the point halfway between the centers of the two forward skid block holes and the center of the rear skid block hole (see Drawing 1).

2. REGULATIONS

2.1. Publication date for amendments

~~Each year in March at the latest,~~ The Spanish Motorsport Federation will publish all changes made to these regulations. All such changes will take effect **according to the log table at the beginning of the regulations.** ~~on the first official event following the of the season, that to be defined in the Eurocup 3 Sporting Regulations.~~

Changes made for safety reasons may come into force without notice.

2.2. Permanent compliance with regulations

Automobiles must comply with these regulations in their entirety at all times during an event.

2.3. Measurements

All measurements must be made while the car is stationary on a **flat horizontal reference surface established by the Technical Delegate.**

2.4. Technical passport and FIA chassis test report

All competitors must be in possession of a technical passport for their car which will be issued by the relevant ASN **and must accompany the car at all times.**

~~No car will be permitted to take part in an event unless the passport is available for inspection at initial scrutineering.~~

2.5. Eligible cars

Only Eurocup 3 with Tatuus Racing TR318 chassis and ALFA ROMEO ATM-AR-F3R Power Unit are eligible.

2.6. ~~Changes-Modifications~~ to car design

2.6.1. General

The complete car is divided into three types of parts.

This classification may be found in the Part classification's nomenclature for Tatuus Chassis, released by the manufacturer. This document may vary during the year.

Type 1: These parts must be supplied by the manufacturer and used exactly as supplied. Repairs may be carried out only by the manufacturer.

Type 2: These parts are Type 1 parts with specific restrictions. Only the modifications indicated in the homologation may be carried out. Repairs are allowed only in the range described in the homologation.

Type 3: These parts are unrestricted, provided that they are used as designed by the manufacturer and do not fulfil any additional function.

The above-mentioned parts classification and the user manual form part of the homologation, both documents will be supplied by the respective manufacturer.

The adding of color or thin adhesive film up to a thickness of 0.5 mm is not considered as a modification, provided that the color or film fulfils only an optical function.



A modification is understood as the transformation of an element by means of retiring or adding material or the variation in its chemical composition.

2.6.2. Standard mounting parts

Standard mounting parts, such as screws, nuts, bolts, washers and lock washers, are considered as Type 3 parts unless specifically mentioned in the homologation. They may be replaced with equivalent or superior standard parts.

The thread type, size, length and pitch must remain the same. The use of locking wire is permitted.

Any type of standard mounting part which has an influence on the car set-up is considered as a Type 1 part unless specifically mentioned in the homologation.

Only Type 3 washers may be removed.

Washers may be added only for facilitating and improving mechanical installation. They may influence the set-up of the car only when specifically mentioned in the homologation.

2.6.3. Protection

Heat protections, mechanical protections (such as abrasion protection or tape) and protections for driver comfort may be added, provided that their sole function is the protection of the relevant element and unless specifically mentioned in the homologation.

In any case, the protection must be approved and included in a Technical Note issued by the Organizing Committee.

2.6.3.1. Dismountable protections

It is authorized to install a protection for the front of the bodywork floor. This protection must be supplied by the Championship and marked with the corresponding hologram.

It is authorized to install a protection for the brake lines and for the wheel tethers. This protection must be supplied by the Championship and marked with the corresponding hologram.

2.6.3.2. Approved protections

1. The addition of adhesive tape thermal insulation to the rear face of the survival cell, engine bay side, to reduce the heat transmission to the passenger compartment and the fuel tank.
2. Add a heel rest for driver comfort.
3. The addition of non-slip tape to the pedals.
4. In general, the addition of rubber pieces, adhesive tapes or electrical insulators to locally protect pipes or cables from friction or contact with other elements of the vehicle.
5. The addition of pipe or wiring spacers by means of flanges or similar pieces.
6. The addition of thermal insulation in the wheel speed sensor.
7. The addition of rubber tape between the radiator and the intercooler to reduce friction between them.
8. The addition of rubber tape on the perimeters of the radiators and the intercooler with the ducts that fix them to reduce friction between them.
9. The addition of adhesive tape on the edge of the outermost part of the air inlet of the sidepods to protect



the vinyls from small impacts.

10. The addition of protective tape on the front edge of the floor to protect the part from small impacts.
11. The addition of protective tape on the carbon seat to prevent friction with the harness straps.
12. The addition of adhesive tape on the headrest to protect it from friction with the FHR and the driver's helmet.
13. The addition of transparent adhesive tape on the camera support to protect the lens from small impacts.
14. The addition of a thermal protection around the fuel outlet and return lines that exit the tank and pass over the engine.
15. It is possible to install the camera module in the chassis by means of a support with silent-blocks to reduce its vibrations.
16. It is allowed to install an independent Anderson type connector, which goes directly to the battery, for the sole purpose of recharging the batteries without having to remove them from the vehicle.
17. Quick couplings are allowed to be installed in the coolant residual and engine oil vent pipes.

2.6.4. Bodywork

The modification of bodywork parts and bodywork supports is allowed only to ensure proper installation despite manufacturing tolerances.

2.6.5. Quick couplings

The use of quick couplings for brake, clutch and fuel lines is allowed, provided that FIA-approved dry couplings are used.

The homologated lines can be modified for the solely purpose of adding these quick couplings.

3. BODYWORK AND DIMENSIONS

3.1. Definitions

~~3.1.1. Wheel center line~~

~~The center line of any wheel shall be deemed to be halfway between two straight edges, perpendicular to the surface on which the car is standing, placed against opposite sides of the complete wheel at the center of the tyre tread.~~

3.1.2. Height measurements

All height measurements will be taken normal to and from the reference plane defined in Article 3.7.1.

~~3.1.3. Distances~~

~~All measurements relative to wheel center lines, car center plane and survival cell planes (referring to Drawing 5) will be taken parallel to the reference plane defined in Article 3.7.1.~~

3.2. Overall dimensions

~~3.2.1. Height~~

~~No part of the bodywork may be higher than 960mm above the reference plane.~~

3.2.2. Width



The overall width of the car including complete wheels shall not exceed 1850mm, with the steered wheels in the straight-ahead position.

~~Bodywork width between the front and the rear wheel center lines must not exceed 1500mm. Bodywork width behind the rear wheel center line must not exceed 1500mm.~~

~~3.2.3. Overhangs~~

~~No part of the car may be more than 900mm behind the rear wheel center line or more than 1150mm in front of the front wheel center line.~~

~~No part of the bodywork more than 200mm from the car center plane may be more than 1000mm in front of the front wheel center line.~~

~~3.2.4. Wheelbase and track~~

~~Wheelbase: 2800mm—3000mm.~~

~~Minimum track: 1200mm.~~

~~3.3. Front wing~~

~~3.3.1. Overall dimensions~~

~~All bodywork situated forward of the front wheel center line must be no less than 40mm above the reference plane.~~

~~All bodywork situated forward of the front wheel center line and more than 300mm from the outline of the car, must be within the volume defined by the following planes:~~

- ~~—Two planes parallel to, 40 mm and 340 mm above the reference plane;~~
- ~~—Two planes parallel to C-C and 300 mm and 1000 mm forward of the front wheel center line;~~
- ~~—A plane parallel to and 850mm from the car center plane.~~

~~3.3.2. Exclusion zone~~

~~No bodywork is allowed inside a volume formed by the reference plane, two longitudinal planes which run normal to the reference plane and 250mm parallel to the car center plane either side and two planes which run normal to the reference plane and parallel to and 430mm and 1150mm forward of the front wheel center line, except for the following components:~~

- ~~a) Homologated frontal impact absorbing structure.~~
- ~~b) Homologated front wing hangers.~~
- ~~c) Homologated front wing hanger covers.~~
- ~~d) Homologated front wing mainplane~~
- ~~e) Homologated front wing flap~~
- ~~f) Homologated front wing flap hangers~~

~~Spacers or shims between the front wing hangers and the front wing main plane or the frontal impact absorbing structure are allowed for the sole purpose to bring the front wing assembly to its legal position, within the limits defined in the homologation of the chassis.~~

~~3.3.3. Mandatory central section~~



Except for the homologated front wing hangers and front wing hanger covers, any vertical section taken parallel to the car center plane through bodywork located more than 430mm forward of the front wheel center line, less than 250mm from the car center plane, and less than 130mm above the reference plane can contain up to two sections.

3.3.4. Front Wing Main Plane

With the exception of the lateral extremities (the front wing end plates) and the fixation points (inserts / holes) for the homologated front wing hangers (including spacers or shims between the hangers and the main plane) and for additional front wing flaps, the front wing main plane must be a single, smooth, rigid, continuous element without any slots, gaps, attachments or dividers in order that only one single continuous section may be contained within any cross-section taken parallel to the car center plane and normal to the reference plane.

Wing main plane to the frontal impact absorbing structure may not provide any other possibility to alter the position of the front wing main plane in any direction.

Spacers or shims are allowed for the sole purpose to bring the front wing assembly to its legal position.

3.3.5. Endplates

The lateral extremities of any bodywork forward of the front wheels must fit in the volume formed by planes running 660 mm and 850 mm parallel to the car center plane and normal to the reference plane, 300 mm and 1000 mm forward and parallel to the front wheel center line and normal to the reference plane and 40 mm and 340 mm above and parallel to the reference plane.

In lateral view the lateral extremities must incorporate a flat, rectangular and vertical surface, parallel to the car center plane with a minimum length of 300 mm and a minimum height of 150 mm.

The lateral extremities of the front wing assembly (the front wing end plates) must directly attached to the homologated front wing main plane (meaning no other parts are allowed between the homologated front wing main plane and the front wing end plate).

In order to prevent tyre damage to other cars, the lateral extremities of any bodywork forward of the front wheels must be at least 10mm thick (being the minimum distance when measured normal to the surface in any direction) all extremities must have a minimum radius of 5mm.

Screw heads and washers for the sole purpose of attaching the end plates to the wing will be ignored when assessing whether the car is in compliance with Article 3.3.

3.3.6. Additional Front Wing Flaps

Additional front wing flaps forward of the front wheel center line, attached to the front wing main plane, are permitted in a box either side of the car center plane formed by the following planes:

- The car center plane and a plane 850mm from the car center plane;
- Two planes 300mm and 900mm forward of the front wheel center line and parallel to C-C;
- Two planes parallel to and 40mm and 340mm above the reference plane;
- A plane normal to the car center plane defined by a point 650mm forward of the front wheel center line and 340 mm above the reference plane and a point 900mm forward of the front wheel center line and 200mm above the reference plane.

Optional L-shape gurneys may be attached within the above mentioned box. The gurney has to be straight with max. 15mm in height and 250mm in length.



3.4. — Front bodywork

3.4.1. — Nose and chassis maximum height

Referring to the planes defined in Article 15:

In side view, no bodywork, except for the front wing endplates as defined in Article 3.3.5, antennas and a transparent windscreen, may extend above the following lines:

- A horizontal line from a point 1150mm forward of the front wheel center line to a point on D-D and 200mm above the reference plane.
- A diagonal line from a point on D-D and 200mm above the reference plane and a point on A-A and 580mm above the reference plane.
- A diagonal line from a point on A-A and 580mm above the reference plane and a point on the front wheel center line and 610mm above the reference plane.
- A diagonal line from a point on the front wheel center line and 610mm above the reference plane to a point on B-B and 635mm above the reference plane.

3.4.2. — Exclusion volume under the nose and chassis

In side view, there must be no bodywork in the area formed by two vertical planes, one 300mm forward of and one 400mm behind the front wheel center line and one horizontal plane 140 mm above the reference plane.

3.4.3. — Exclusion volume around the front wheels

With the exception of the rear view mirrors, in plan view, there must be no bodywork in the area enclosed by the intersection of the following lines:

- a) A longitudinal line parallel to and 925mm from the car center plane.
- b) A transverse line 300mm forward of the front wheel center plane.
- c) A diagonal line from a point 300mm forward of the front wheel center plane and 210mm from the car center plane to a point 625mm forward of C-C and 320mm from the car center plane.
- d) A diagonal line running rearwards and outwards, from a point 625mm forward of the plane C-C and 320mm from the car center plane, at an angle of 75° to the car center plane.

This does not apply to any parts of the rear view mirrors (including their supports), which are visible in the described area, provided each of these areas does not exceed 9000mm² when projected to a plane above the car which is parallel to the reference plane. The rear view mirror supports must have a circular cross-section.

3.4.4. —

Except for the front wing assembly defined by Article 3.3, the attachment of the frontal impact absorbing structure, the cockpit rim edge, the inside of the cockpit and a transparent windscreen, any vertical cross-section normal or parallel to the car center plane of any bodywork visible from above, between B-B and D-D, which is less than 250 mm from the car center plane, may only have a continuous shape with a minimum radius of 15 mm.

3.4.5. —

Except for the rollover structures, the cockpit rim edge, the inside of the cockpit, the windscreen and the attachment of the frontal impact absorbing structure, any intersection of any bodywork more than 60mm above the reference plane lying between 430 mm forward of the front wheel center line and 600 mm forward of C-C which is visible from above or beneath the car, with a lateral or longitudinal vertical plane should form one continuous



line, with a minimum radius of 10 mm which is visible from above and beneath the car respectively.

3.5. Rear bodywork

3.5.1. Space for Power Unit and intake system

Once the relevant bodywork surfaces are defined in accordance with present Technical Regulations, if necessary for the installation of Power Unit, bellhouse or gearbox, it must be possible to add local extensions to the defined bodywork.

3.5.2. Space for exhaust system

The sidepods must be designed such that an exhaust system including a cylindrical muffler with a diameter of 150 mm and a length of 500 mm may be fitted on either side of the car.

3.5.3. Engine cover

a) With the exception of the opening described in 15.2.7, when viewed from the side, the car must have bodywork in the area bounded by the following five lines:

one vertical 30mm behind C-C,

one horizontal 400mm above the reference plane, one horizontal 940mm above the reference plane,

one vertical 100mm behind the rear wheel center line and

one diagonal which intersects the 940mm horizontal at a point 150mm behind C-C and the 100mm vertical at a point 630mm above the reference plane.

With exception of the local extensions mentioned in Article 3.5.1, any bodywork within this area must be arranged symmetrically about the car center plane and, when measured 200mm vertically below the diagonal boundary line, must have minimum widths of 150mm and 50mm respectively at points lying 150mm behind C-C and 100mm behind the rear wheel center line. This bodywork must lie on or outside the boundary defined by a linear taper between these minimum widths.

b) Bodywork lying vertically above the upper boundary as defined in a) may be no wider than 125mm and must be arranged symmetrically about the car center plane.

c) When viewed from the side, no bodywork forward of a point 100mm behind the rear wheel center line may lie above a line parallel to the diagonal boundary defined in a) and intersecting the rear wheel center line 690mm above the reference plane.

d) Bodywork more than 250mm above the reference plane, lying between the rear wheel center line and 150mm behind the rear wheel center line, may be no more than 200mm from the car center plane.

3.5.4. Sidepods height and width

a) Other than the rear view mirrors, no bodywork situated between the front and the rear wheel center line, which is more than 550mm above the reference plane, may be more than 350mm from the car center plane.

b) In plan view, there must be no bodywork forward of the rear wheel center line and more than 250mm above the reference plane, which is outside of a diagonal line running forward and outwards, from a point on the rear wheel center line and 450mm from the car center plane at an angle of 17° to the car center plane.

3.5.5. Side impact structures

The impact absorbing structures defined by Article 15.5.2 must be fully enclosed by bodywork, such that no part of the impact structure is in contact with the external air flow. When cut by a longitudinal vertical plane, the bodywork



enclosing these impact structures must not form closed sections in the region between 300mm and 875mm forward of the plane C-C.

3.5.6. Sidepods leading edge

No part of the area enclosed by the intersection of the following lines, on a plane 450mm above and parallel to the reference plane, may be visible from directly above the car:

- A longitudinal line parallel to and 580mm from the car center plane.
- A longitudinal line parallel to and 320mm from the car center plane.
- A diagonal line running rearwards and outwards, from a point 600mm forward of the plane C-C and 320mm from the car center plane, at an angle of 75° to the car center plane.
- A diagonal line running rearwards and outwards, from a point 400mm forward of the plane C-C and 320mm from the car center plane, at an angle of 75° to the car center plane.

3.5.7. Power Unit cooling ducts

The area of the air ducts used for cooling the Power Unit must exceed 90,000mm² in total. This will be measured to a projection onto a plane vertical to the reference plane and normal to the car center plane and must be maintained up to the radiator surface. Further any intersection taken normal to the car center plane and vertical to the reference plane must form a continuous line up to the radiator.

All air entering the ducts must pass through an intercooler (if applicable), an oil cooler, a water radiator or an air duct fitted for the sole purpose of cooling a specific car component.

Devices for the sole purpose of connecting the floor to the chassis and to protect the radiators are allowed within the radiator duct and may pass through the bodywork. The devices and passages through the bodywork must have a circular cross section with a diameter no greater than 5 mm and 7 mm respectively or a rectangular cross section of 25 mm x 2 mm and 30 mm x 5 mm respectively.

3.5.8. Bodywork shape (R75 rule)

Any vertical cross section of bodywork parallel to the plane C-C situated in the volumes defined below must form one tangent continuous curve on its external surface. This tangent continuous curve may not contain any radius less than 15mm:

- The volume between the rear wheel center line and 300mm rearward of the plane C-C, which is more than 25mm from the car center plane and more than 600mm above the reference plane.
- The volume between 50mm and 600mm forward of the rear wheel centre, which is more than 390mm from the car center plane and more than 250mm above the reference plane.
- The volume between 600mm forward of the rear wheel center line and 200mm forward of the plane C-C, which is more than 390 mm from the car center plane and more than 100mm above the reference plane.
- The volume between 350mm and 200mm forward of the plane C-C, which is more than 390 mm from the car center plane and above a diagonal line defined by a point 350mm forward of C-C and 250 mm above the reference plane and a point 200mm forward of C-C and 100 mm above the reference plane.

The surfaces lying within these volumes, which are situated more than 200mm forward of the rear wheel center line, must not contain any apertures (other than those permitted by Article 3.5.9) or contain any vertical surfaces which lie parallel to the plane C-C.

3.5.9. Apertures



Once the relevant bodywork surfaces are defined in accordance with Article 3.5.8, apertures may be added for the following purposes only:

- a) A single aperture either side of the car center plane for the purpose of the exhaust exit. The bodywork edge of this aperture may have a maximum distance of 10mm to any point lying on the circumference of the exhaust pipe.
- b) Rectangular apertures either side of the car center plane for the purpose of allowing suspension members and driveshafts to protrude through the bodywork. No such aperture may have an area greater than 5,000mm² when projected onto the surface itself. No point of such an aperture may be more than 100mm from any other point on the aperture.
- c) Apertures either side of the car center plane for the purpose of increasing the airflow through the cooling systems of the car.

3.6. Rear wing and rear impact structure

3.6.1. Height

No part of the bodywork behind the rear wheel center line may be more than 850mm above the reference plane.

Except for the rear light and the rear impact structure required in Article 15.5.3, no bodywork which is more than 500mm behind the rear wheel center line may be less than 250mm above the reference plane.

3.6.2. Rear wing profiles

No bodywork behind a point lying 150mm behind the rear wheel center line may incorporate more than three aerofoil sections.

The bodywork underneath a horizontal plane 525mm above the reference plane must incorporate one aerofoil section, conforming to the dimensions given in Drawing 8.

Each of the dimensions given must remain nominally at the same height above the reference plane over the entire width of the relevant aerofoil section.

No holes, apertures or slots are permitted in any of these aerofoil sections.

Apertures are permitted to allow the routing of the rear lights.

A tolerance of +/-1.0mm will be permitted on any stated dimension

3.6.3. Endplates

1— In side view, the projected area of any bodywork lying between 250mm and 850mm above the reference plane and between a point 150mm behind the rear wheel center line and a point 810mm behind it and more than 400mm from the car center plane must be greater than 100000mm².

2— In side view, no bodywork rearward of a point 150mm behind the rear wheel center line, and between 200mm and 750mm from the car center plane, may be situated vertically above a diagonal line which has the forward point 250mm above the reference plane and 150 behind the rear wheel center line and the rearward point 850mm above the reference plane and 410mm rearward of the rear wheel center line.

No part of the rear wing endplates may be less than 380mm from the car center plane.

3.7. Floor and diffuser

Compliance with this Article must be demonstrated with all unsprung parts of the car removed.



3.7.1. Step and reference planes

All sprung parts of the car situated in the following areas:

- more than 400mm behind the front wheel center line, more 370mm forward of C-C and less than 250mm from the car center plane,
- less than 370mm forward of C-C and more than 600mm forward of the rear wheel center line,

which are visible from underneath, must form surfaces which lie on one of two parallel planes, the reference plane or the step plane. This does not apply to any parts of rear view mirrors which are visible, provided each of these areas does not exceed 9000mm² when projected to a horizontal plane above the car. The step plane must be 50mm above the reference plane.

Additionally, the surface formed by all parts lying on the reference plane must:

- a) Cover the area which is bounded by two transversal lines, one 400mm behind the front wheel center line and the other one 280mm forward of the rear wheel center line, and two longitudinal lines 150mm either side of the car center plane.
- b) Have maximum widths of 500mm.
- c) Be symmetrical about the car center plane.
- d) Be made of wood at least 9.5mm thick.

For the sole purpose of incorporating a larger flywheel, a cut-out, symmetrical to the car center plane with a maximum width of 180 mm, maximum length of 120 mm and a maximum depth of 5 mm, may be added on the upper side.

All parts lying on the reference and step planes, in addition to the transition between the two planes, must produce uniform, solid, hard, continuous, rigid (no degree of freedom in relation to the body/chassis unit), impervious surfaces under all circumstances.

The peripheries of the surfaces formed by the parts lying on the reference and step planes may be curved upwards with maximum radii of 25 and 50mm respectively. The surface formed by the parts lying on the reference plane must be connected at its extremities vertically to the parts lying on the step plane and any radius which forms the transition between the two planes may have a maximum radius of 25mm.

3.7.2. Tolerances

To help overcome any possible manufacturing problems, and not to permit any design which may contravene any part of these regulations, dimensional tolerances are permitted on bodywork situated more than 400mm behind the front wheel center line and the rear wheel center line.

A vertical tolerance of +/- 3 mm is permissible across the surfaces lying on the reference and step planes and a horizontal tolerance of 3 mm is permitted when assessing whether a surface is visible from beneath the car.

3.7.3. Diffuser height

All sprung parts of the car situated in the following areas:

- more than 400mm behind the front wheel center line, more 370mm forward of C-C and more than 250mm from the car center plane between 600mm forward of rear wheel center line and the rear wheel center line and and more than 250mm from the car center plane
- behind the rear wheel center line and forward of 500mm behind the rear wheel center line and more than 150mm from the car center plane



~~which are visible from underneath, must be between 50mm and 250mm above the reference plane.~~

~~All sprung parts of the car situated between 600mm forward and 500mm behind the rear wheel center line, which are visible from underneath, may be no more than 250mm above the reference plane.~~

~~In an area lying 750mm or less from the car center plane, and from 370mm forward of C-C to 500mm rearward of the rear wheel center line, any intersection of any bodywork visible from beneath the car with a lateral or longitudinal vertical plane should form one continuous line which is visible from beneath the car.~~

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3.7.4. Skid block

~~Beneath the surface formed by all parts lying on the reference plane, a rectangular skid block must be fitted. This skid block may comprise more than one piece but~~ It must:

- ~~a) Extend longitudinally from a point lying 400mm behind the front wheel center line to a point lying 280mm forward of the rear wheel center line.~~
- ~~b) Be made from wood.~~
- ~~c) Have a width of 300mm with a tolerance of +/- 2mm.~~
- d) Have a minimum thickness of 2.0 mm.
- e) Have a uniform thickness of at least 5 mm when new.
- f) Have no holes or cut outs other than those necessary to fit the skid block to the car.
- g) Have four precisely placed 80 mm diameter holes the positions of which are detailed in Drawing 1 ~~10~~.
- h) Be fixed symmetrically about the center line of the car in such a way that no air may pass between it and the surface formed by the parts lying on the reference plane.

The front and rear edge of a new skid block may be chamfered over a distance of 50mm to a depth of 3mm.

In order to establish the conformity of the skid block after use its thickness will only be measured around the four 80mm diameter holes, the minimum thickness must be respected in at least one place on the circumference of all four holes.

It is authorized to paint the lower face of the skid block with the sole purpose of check its wear.

3.8. Aerodynamic influence

~~Any specific part of the car influencing its aerodynamic performance (with the exception of non-structural shrouds protecting wheel tethers which are being used solely for this purpose):~~

- ~~a) Must comply with the rules relating to bodywork.~~
- ~~b) Must be rigidly secured to the entirely sprung part of the car (rigidly secured means not having any degree of freedom).~~

~~With the exception of brake cooling ducts, any specific part of the car influencing its aerodynamic performance must remain immobile in relation to the sprung part of the car.~~

~~Any device or construction that is designed to bridge the gap between the sprung part of the car and the ground is prohibited under all circumstances.~~

~~No part having an aerodynamic influence and no part of the bodywork, with the exception of the skid block in Article~~



~~3.7.4 above, may under any circumstances be located below the reference plane.~~

~~Any car system, device or procedure which uses driver movement as a means of altering the aerodynamic characteristics of the car is prohibited.~~

~~3.9. Bodywork flexibility~~

~~3.9.1. Bodywork may deflect no more than 5mm vertically when a 50 kg load is applied vertically to it 730mm forward of the front wheel center line and 500mm from the car center plane, this point being the center of the below described adapter. The load will be simultaneously applied on both sides of the front wing main plane in a downward direction using a rectangular adapter 350mm long and 150mm wide with the 350mm edges running parallel to the car center plane. The adapter must follow the shape of the front wing in the above defined area and the teams must supply the latter when such a test is deemed necessary. During the test the car must sit on the skid block and the deflection is measured on both sides of the front wing main plane and at the car center plane, the car center plane figure being deducted from the LHS and RHS figures.~~

~~3.9.2. Any bodywork facing the ground must remain in compliance with Article 3.7 when a load of 20kg is applied vertically to it at its outermost point directly in front of the rear wheels. The load will be simultaneously applied on both sides of the car in a downward direction.~~

~~3.9.3. In order to ensure that the requirements of Article 3.9 are respected, the FIA reserves the right to introduce further load/deflection tests on any part of the bodywork which appears to be (or is suspected of), moving whilst the car is in motion.~~

~~3.9.4. Aerodynamic configuration~~

~~It is authorized to use:~~

- ~~- The standard downforce configuration.~~

~~or~~

- ~~- The LDF (Low downforce) configuration, completely and as indicated in the technical bulletin TB_EC323_001_LDF_KIT.~~

~~in any event of the Eurocup 3 Championship.~~

4. WEIGHT

4.1. Weight

The weight of the car must not be less than 680 kg according to article 1.9.

~~The minimum weight may be increased to a maximum of 760.0 kg within the sporting regulations of each championship to compensate different Power Unit and Chassis weights. However, the power to weight ratio (with driver) must not be less than 2.5 kg/BHP.~~

4.2. Ballast

~~Ballast can be used according to the Tatuus vehicle User Manual provided it is secured in such a way that tools are required for its removal. It must be possible to fix seals if deemed necessary by the scrutineers.~~

4.3. Adding during the race

The adding to the car during the race of any liquid or other material whatsoever or the replacement during the race of any part with another materially heavier is forbidden.



5. POWER UNIT

5.1. Power Unit homologation

Only Power Unit which have been homologated in accordance with the Formula 3 Regional Homologation Regulations may be used during an event. Only ALFA ROMEO ATM-AR-F3R Power Unit is allowed.

~~All such Power Units should be delivered in such a condition that the seals can be fitted.~~

5.2. ~~General engine specification~~

~~5.2.1. Only 4-stroke (Otto-principle) engines with reciprocating pistons are permitted.~~

~~5.2.2. Turbocharged engines are permitted.~~

~~5.2.3. The engine may be structural or be fitted with an additional space frame.~~

5.3. ~~Main Power Unit and intake system dimensions:~~

~~5.3.1. The height of the crankshaft rotational axis must be no less than 125mm above the reference plane.~~

~~5.3.2. The Power Unit to chassis mounting points must be arranged in accordance with Drawing 12.~~

~~5.3.3. The Power Unit including bell housing or space frame and intake system must comply with the maximum dimensions given in Drawing 11. If necessary for the installation of the Power Unit, local extensions may be added.~~

~~5.3.4. All air feeding the engine must pass through the main rollover structure of the car.~~

5.4. ~~Power Unit Control Unit:~~

~~5.4.1. The ECU and Power Unit loom must provide the common connector defined by Article 8.7. The ECU must provide the datalogger functionality as defined in Article 8.6.~~

~~5.4.2. The Power Unit manufacturer must provide a mechanism that allows the scrutineers to accurately identify the ECU software version loaded.~~

~~5.4.3. The following channels must be available via CAN for the chassis data logging system:~~

- ~~— Throttle pedal position~~
- ~~— Engine rpm~~
- ~~— Auxiliary battery voltage~~
- ~~— Water temperature~~
- ~~— Oil temperature~~
- ~~— Oil pressure~~
- ~~— ERS and Power Unit error codes.~~

~~5.4.4. The following channels, when they exist, must be available for Power Unit support and scrutineering purposes only:~~

- ~~— Ignition cut~~
- ~~— Ignition timing~~
- ~~— Injection timing~~



- Fuel mass
- Global fuel mass correction factor
- Lambda
- Air temperature
- Airbox/inlet pressure
- Throttle valve position
- MGU: Speed and temperatures (winding, rotor, bearings)
- Inverter: Power Module temperature, Iq and Id current and existing diagnostic channel
- ES: State of charge, cells temperature, voltage, current and existing diagnostic channel.
- DCDC: Voltages, currents, temperatures and existing diagnostic channels.

5.5. Power Unit rev limiter

Any rev limiter other than for over-rev protection or any function or construction, designed to help the driver finding a predefined rev level for starting, is forbidden.

5.6. General electrical safety:

The maximum working voltage on the car must never exceed 60V DC or 30V AC.

5.7. Power circuit:

The outer covering of cables and harness of the traction circuit not within enclosures or behind barriers shall be marked in purple or orange.

Power circuit cables and harnesses must be inside the bodywork.

5.8. Energy Store (ES) position

Liquid cooling is forbidden.

The ES must be surrounded by a fireproof enclosure (V0 level of acceptance respecting the "UL94" US standard).

The technology for the ES is free but it must have the suitable UN certification for transportation.

The Energy Store must be equipped with a contactor which will isolate the ES cells of the other parts of the car when a shutdown is requested.

The Energy Store must be equipped with a fuse to protect the ERS in case of a short circuit. The fuse shall be located as close as possible to the ES cells.

The energy store must be equipped with a BMS. Should it be required due to the technology of the ES, the ES must be fitted with a pressure release valve. The vapour exiting this valve must be directed outside the cockpit.

External charging of the Energy Store during pitstops is prohibited.

5.9. Motor Generator Unit (MGU)

The MGU must be mechanically linked to the engine before the main clutch.

6. PIPING AND FUEL TANKS

Must be original, as supplied by the manufacturer, and without any modification unless permitted by these



regulations.

6.1. Fuel tanks

~~6.1.1. The fuel tank must be the homologated one and in compliance with the FIA standard FT5-1999. a single rubber bladder conforming to or exceeding the specifications of FIA Standard FT5-1999, the fitting of foam within the tank however is not mandatory. A list of approved materials may be found in FIA Technical List No.1 (List of fuel bladders homologated according to the FIA Standards FT3-1999, FT3.5-1999, FT5-1999) on the FIA website.~~

~~6.1.2. When viewed in lateral projection, all the fuel stored on board the car must be situated between the front face of the Power Unit and the line a-b-c in Drawing 1.~~

~~Furthermore, no fuel can be stored more than 300mm forward of point c) in Drawing 1.~~

~~However, a maximum of 2 liters of fuel may be kept outside the survival cell, but only that which is necessary for the normal running of the engine.~~

~~6.1.3. Fuel must not be stored more than 400mm from the longitudinal car center plane.~~

6.1.4. No rubber bladders shall be used more than five years after the date of manufacture, unless inspected and recertified by the manufacturer for a period of up to another two years.

6.2. Fittings and piping

~~6.2.1. All apertures in the fuel tank must be closed by hatches. or fittings which are secured to metallic or composite bolt rings bonded to the inside of the bladder.~~

~~The bolt holes edges must be no less than 5mm from the edge of the bolt ring, hatch or fitting. All hatches and fittings must be sealed with the gaskets or "O" rings supplied with the tank.~~

~~6.2.2. All fuel lines between the fuel tank and the engine must have a self-sealing breakaway valve. This valve must separate at less than 50% of the load required to break the fuel line fitting or to pull it out of the fuel tank.~~

6.2.3. No lines containing fuel, cooling water or lubricating oil may pass through the cockpit.

6.2.4. All lines must be fitted in such a way that any leakage cannot result in the accumulation of fluid in the cockpit.

6.2.5. No hydraulic fluid lines may have removable connectors inside the cockpit.

~~6.2.6. When flexible, all lines must have threaded connectors and an outer braid which is resistant to abrasion and flame.~~

~~6.2.7. All fuel and lubricating oil lines must have a minimum burst pressure of 41bar at the maximum operating temperature of 135°C.~~

~~6.2.8. All hydraulic fluid lines which are not subjected to abrupt changes in pressure, with the exception of lines under gravity head, must have a minimum burst pressure of 408 bar at the maximum operating temperature of 204 °C when used with steel connectors and 135 °C when used with aluminium connectors.~~

~~6.2.9. All hydraulic fluid lines subjected to abrupt changes in pressure must have a minimum burst pressure of 816 bar at the maximum operating temperature of 204 °C.~~

~~6.2.10. All components containing fuel at a pressure greater than 10 bar must be located outside the fuel tank.~~

6.3. Crushable structure



The fuel tank must be completely surrounded by a crushable structure. ~~which is an integral part of the survival cell and must be able to withstand the loads required by the tests in Articles 18.2.1 and 18.3.~~

6.4. Tank fillers

6.4.1. Tank fillers must not protrude beyond the bodywork. Any breather pipe connecting the fuel tank to the atmosphere must be designed to avoid liquid leakage when the car is running, and its outlet must not be less than 250mm from the cockpit opening.

All tank fillers must be designed to ensure an efficient locking action which reduces the risk of accidental opening following a crash impact or incomplete locking after refuelling.

6.4.2. All cars must be fitted with a self-sealing connector which can be used by the scrutineers to obtain fuel from the tank.

This connector must be the type approved by the FIA.

6.5. Refuelling

6.5.1. Refuelling during the race is forbidden.

6.5.2. Refuelling the car on the grid ~~by any other means than by gravity from a maximum head of two metres above the ground~~ is forbidden.

6.5.3. All the refuelling and fuel-out must be carried out through the dry-break quick couplings homologated and indicated by the manufacturer for that purpose.

6.5.4. Any storage of fuel on board the car at a temperature of more than ten degrees centigrade below the ambient temperature is forbidden.

6.5.5. The use of any specific device, whether on board or not, to decrease the temperature of the fuel below the ambient temperature is forbidden.

7. OIL AND COOLING SYSTEMS

Must be original, as supplied by the manufacturer, and without any modification unless permitted by these regulations.

7.1. ~~Location of oil tanks~~ Engine oil

~~All oil storage tanks must be situated between the front wheel axis and the rearmost gearbox casing longitudinally, and if situated outside the main structure of the car they must be surrounded by a 10mm thick crushable structure.~~

~~No part of the oil reservoir for engine lubrication may be situated more than 200mm laterally from the car center plane. The oil reservoir must be located between the rear face of the engine and the rear wheel center line longitudinally.~~

The only engine oil accepted is:

- Ravenol RSS SAE 10W60

The product reference is: 1141100.

7.2. ~~Longitudinal location of oil system~~ Gearbox oil

~~No other part of the car containing oil may be situated behind the complete rear wheels.~~

The only gearbox oil accepted is:



- Ravenol Racing Gearoil 75W-140

The product reference is: 1221111.

~~7.3. Catch tank~~

~~When a car's lubrication system includes an open type sump breather, this breather must vent into a catch tank of at least 2 litres capacity.~~

~~The use of additional vent pipes for the purpose of venting a catch tank rearwards to the back of the car is not permitted. Measures must be taken to ensure that no liquid can leak from any aeration system.~~

~~7.4. Transversal location of oil system~~

~~No part of the car containing oil may be more than 660mm from the car center plane.~~

7.5. Oil replenishment

No oil replenishment is allowed during a race.

7.6. Cooling fluids

Only ambient air, water, anti-freeze and oil are permitted in the car cooling systems.

~~7.7. Mandatory engine oil~~

~~Only the engine oil **Ravenol RSS 10W-60** is allowed. Its brand reference number is 1141100.3~~

7.8. Oil checks

Checks of the oils previously mentioned can be done.

These analysis will be done by the oil manufacturer and according to their own control methods.

The manufacturer will report the result of the analysis to the Technical Delegate, who will report the result to the Stewards.

For the analysis a single sample per type of oil, that will be sealed by the scrutineers and signed by the competitor or his representative.

A second sample will be taken, in the same conditions as the previous one, that will be kept by the RFEDA to be used in case of appeal.

8. ELECTRICAL SYSTEMS

Must be original, as supplied by the manufacturer, and without any modification unless permitted by these regulations.

8.1. Starter

~~A starter with an electrical or other source of energy carried aboard the car, and able to be controlled by the driver when seated normally, must be fitted.~~

The starter must be capable of starting the engine at all times.

~~An exception to this requirement may be granted if an MGU is fitted with enough capability.~~

8.2. Starting the engine

A supplementary device temporarily connected to the car may be used to start the engine both on the grid and in



the pits.

8.3. Auxiliary battery

The auxiliary battery must be installed inside the survival cell, on the floor behind the driver's seat.

~~The use of a battery with any kind of lithium technology is prohibited.~~

8.4. ~~Energy Store (ES) position~~

~~The ES must be located either in the survival cell or in a protected enclosure. In any case the ES must be isolated from the cockpit.~~

~~No part of the ES may lie:~~

- ~~— In front of the front most point of the back of driver's seat.~~
- ~~— Behind the engine.~~
- ~~— More than 350mm from the car center line.~~

8.5. Data logger, sensors, dashboard and/or steering wheel display

8.5.1. Data logger

The chassis must be equipped with a data logging system. The ECU must be used as data logger.

It must be possible to restrict competitor access to at least the channels. [defined by Article](#)

The channels must be stored for Power Unit support and scrutineering purposes.

8.5.2. ~~Sensors~~

~~The chassis has to be equipped with only the following sensors:~~

- ~~— Acceleration (1-3-axial sensor)~~
- ~~— Wheel speeds front axle (2 sensors)~~
- ~~— Steering angle (1 sensor)~~
- ~~— Brake pressure front/rear (2 sensors)~~
- ~~— Lap timer/trigger (1 sensor)~~
- ~~— Gear (1 sensor)~~
- ~~— Damper travel (4 potentiometer)~~
- ~~— Throttle pedal~~

8.5.3. ~~Dashboard/steering wheel display~~

~~The car must be equipped with a dashboard or steering wheel display. A functional check for the sensors mentioned in Article 8.6.2 must be possible only by using the dashboard or steering wheel display.~~

8.6. ~~Electrical system connection interfaces~~

~~The purpose of the regulations under Article 8.7 below is to minimise the effort when changing the make of Power Unit.~~

~~The connection interface between Power Unit and chassis loom as defined by Appendix 2 is mandatory. The specified connector may be replaced with an appropriate equivalent.~~



The sensor signals, mentioned in Appendix 2, may be substituted by CAN signals. If required by the Power Unit or chassis manufacturer, direct sensor signals have to be provided.

~~8.7. Throttle fail safe~~

~~Every car must be equipped with a throttle fail safe algorithm, which, in case throttle and brake pedal are pressed at the same time, overrides the throttle and cuts the engine or closes the throttle and cuts the power to the MGU. The function and the parameter of the fail safe algorithm must be communicated to the FIA.~~

8.8. Marshalling System / FCY / VSC Interface

The car has to be designed to fit an optional Marshalling System providing the following interfaces:

- Provisions for a connection between ECU and ADR for the Marshalling System
- Provisions for power supply and CAN communication with ECU, ADR and Marshalling System for a timing transponder
- Provisions to install antennae for GPS and radio communication
- An additional speed limiter at 80 km/h to be used during a FCY or VSC phase
- CAN communication Interface

The detailed requirements can be found in the Appendix to the Technical Regulations.

9. TRANSMISSION TO THE WHEELS

Must be original, as supplied by the manufacturer, and without any modification unless permitted by these regulations.

9.1. Gearbox homologation

Only gearboxes which have been homologated in accordance with the Formula 3 Regional Homologation Regulations may be used during an event.

~~9.2. Four wheel drive~~

~~Four wheel drive cars are forbidden.~~

~~9.3. Type of gearbox~~

~~9.3.1. All cars must have six forward gears.~~

~~9.3.2. No forward gear ratio pair must be:~~

- ~~a) Less than 12.75mm wide when measured across the gear tooth at the root diameter or any point 1mm above or below the root diameter. Above this area each side of the gear teeth may be chamfered by a maximum of 10°. In addition, a chamfer or radius not exceeding 2.0mm may be applied to the sides and the tip of the teeth.~~
- ~~b) Less than 78.9 mm between centres.~~
- ~~c) Less than 600g (excluding any integral shaft or collar). If an integral shaft or collar is to be excluded the mass of this may be shown by calculation assuming the gear to be 12.75mm wide and the shaft geometry to be the same as that where slide-on gears are used.~~

~~9.3.3. Gear ratios must be made from steel.~~



~~9.3.4.—The rotational axis of the layshaft must be in line with the crankshaft's rotational axis. All other rotational axes must also be parallel to the reference plane.~~

~~9.3.5.—From the clutch to the rear wheels there are only two pairs of reduction gears allowed per ratio (except for the reverse gear).~~

~~9.3.6.—Transversal gearboxes are forbidden.~~

~~9.3.7.—Automatic gearboxes and differentials with electronic, pneumatic or hydraulic slip control are forbidden.~~

~~9.3.8.—Viscous differentials are not considered to have hydraulic slip control, provided outside control is not possible when the car is in motion.~~

~~9.3.9.—Forced lubrication is forbidden.~~

~~9.3.10. Only the standard gearbox ratios, defined as 14.1.1. "Gear option 01" in the Tatuus T318 User Manual, are allowed.~~

~~9.4.—Reverse gear~~

~~All cars must have a reverse gear which, at any time during the event, can be selected while the engine is running and used by the driver when seated normally.~~

~~9.5.—Traction control~~

~~The use of traction control is forbidden.~~

~~9.6.—Driveshafts~~

~~Driveshafts must be made from steel. They must have an outside diameter no less than 24mm and an inside diameter no more than 12.2mm.~~

~~The CV joint assembly must not form an integral part of the drive shaft assembly.~~

~~9.7.—Semi-automatic gear change system~~

~~The ECU may be used as gearbox control unit. In case the ECU doesn't provide such functionality, it must be possible to add a standalone gearbox control unit without modifying or changing the chassis or gearbox loom.~~

~~Only electric or pneumatic semi-automatic shift systems are permitted.~~

~~The manufacturer responsible for the gearbox control unit must provide a mechanism that allows the scrutineers to accurately identify the software version loaded on the gearbox control unit.~~

~~9.8.—Clutch disengagement~~

~~All cars must be fitted with a means of disengaging the clutch for a minimum of fifteen minutes in the event of the car coming to rest with the Power Unit stopped.~~

~~This system must be in working order throughout the Event even if the main hydraulic, pneumatic or electrical systems on the car have failed.~~

~~The driver, when seated normally in the car with the seat belts unfastened, must be able to activate the system in less than five seconds.~~

~~The system must be designed in such a way that it can't be used to disengage or partially engage the clutch during the start procedure of a race.~~

~~9.9.—Mandatory gearbox oil~~



Only the gearbox oil **Ravenol Racing Gearoil 75W-140** is allowed. Its brand reference number is 1221111.

9.9.1. Total or partial blanking by means of adhesive tape to the gearbox oil radiator is allowed.

10. SUSPENSION AND STEERING

Must be original, as supplied by the manufacturer, and without any modification unless permitted by these regulations.

~~10.1. General~~

~~The suspension must be a double triangle wishbone configuration with a pushrod.~~

~~10.1.1. Front suspension~~

~~The front suspension must consist only of two dampers including springs, two rocker arms and one anti-roll bar. Any kind of third element is forbidden.~~

~~The anti-roll bar must provide dedicated adjustment positions, only sliding adjustments are forbidden.~~

~~The rocker arms must be directly actuated by the pushrods. The dampers and the anti-roll bar must be directly actuated by the rocker arms.~~

~~The rocker arm support and the dampers must be situated on top of the survival cell.~~

~~10.1.2. Rear suspension~~

~~The rear suspension must consist only of two dampers including springs, two rocker arms and one anti-roll bar. Any kind of third element is forbidden.~~

~~The anti-roll bar must provide dedicated adjustment positions, only sliding adjustments are forbidden.~~

~~The rocker arms must be directly actuated by the pushrods. The dampers and the anti-roll bar must be directly actuated by the rocker arms.~~

~~10.2. Active suspension~~

~~Active suspension is forbidden.~~

~~10.3. Chromium plating~~

~~Chromium plating of any steel suspension components is forbidden.~~

~~10.4. Suspension members~~

~~10.4.1. All suspension members must be made from an homogeneous metallic material.~~

~~10.4.2. In order to help prevent a wheel becoming separated in the event of all suspension members connecting it to the car failing, flexible tethers each with a cross sectional area greater than 110mm² must be fitted. The sole purpose of the tethers is to prevent a wheel becoming separated from the car, they should perform no other function.~~

~~The tethers and their attachments must also be designed in order to help prevent a wheel making contact with the driver's head during an accident.~~

~~Each wheel must be fitted with two tether which complies with FIA standard 8864-2013 providing a minimum energy absorption of 6kJ (FIA Technical List N°.37).~~

~~Each tether must have its own separate attachments at both ends which :~~



- a) Are able to withstand a tensile force of 70kN in any direction within a cone of 45° (included angle) measured from the load line of the relevant suspension member.
- b) On the survival cell or gearbox are separated by at least 100mm measured between the centres of the two attachment points.
- c) On each wheel/upright assembly are separated by at least 90° radially with respect to the axis of the wheel and 100mm measured between the centres of the two attachment points.
- d) Are able to accommodate a tether end fitting with a minimum inside diameter of 15mm. Furthermore, no suspension member may contain more than one tether.

Each tether must exceed 450mm in length and must utilise end fittings which result in a tether bend radius greater than 7.5mm.

~~10.4.3.~~ The overall cross-sections of each member of every suspension component (with any non-structural shroud for wheel tethers included) must have an aspect ratio no greater than 3.5:1 and be symmetrical about its major axis. All suspension components may however have sections with an aspect ratio greater than 3.5:1, and be non-symmetrical, provided these are adjacent to their inner and outer attachments and form no more than 25% of the total distance between the attachments of the relevant member.

All measurements will be made perpendicular to a line drawn between the inner and outer attachments of the relevant member.

~~10.4.4.~~ No major axis of a cross-section of a suspension member may subtend an angle greater than 5° to the reference plane when measured parallel to the car center plane.

~~10.4.5.~~ Shrouds and covers on any suspension member must be non-structural and will be permitted for the sole purpose of protecting wheel tethers and brake lines.

Shrouds and covers may not be permanently attached to suspension members. It must therefore be possible to remove them without the use of tools.

10.5. Suspension dampers

Must be original, as supplied by the manufacturer, and without any modification.

~~10.5.1.~~ Only conventional hydraulic, single tube dampers with one piston and maximum two way adjustment are permitted in any position.

~~10.5.2.~~ Damper fluid may be pressurised.

~~10.5.3.~~ Damper characteristics may only vary as a function of damper piston speed, created only by suspension movement. Any other variation of damper characteristics, such as those which vary as a function of position, frequency or acceleration, are not permitted.

~~10.5.4.~~ The use of blow-off valves, inertia valves, external electronic inputs, the storage of energy or any hydraulic connections between dampers are not permitted.

10.5.5. The use of any kind of bump stop is prohibited.

10.6. Sprung suspension

Cars must be fitted with sprung suspension.

In order to avoid mass dampers, the suspension system must be so arranged that its response results only from changes in load applied to the wheels.



~~The springing medium must not consist solely of bolts located through flexible bushes or mountings.~~

~~There must be movement of the wheels to give suspension travel in excess of any flexibility in the attachments.~~

~~10.7. Springs~~

~~Only conventional coil springs may be used.~~

~~10.8. Suspension uprights~~

~~Only two types of upright may be used for all four wheels.~~

~~The upright must be a solid part made from machined aluminium-based alloy or casting. Sheet metal is forbidden.~~

~~10.9. Wheel bearings~~

~~Only one bearing per wheel is allowed (a bearing with one outer races but split inner race will be allowed).~~

10.10. Steering

Must be original, as supplied by the manufacturer, and without any modification unless permitted by these regulations.

~~10.10.1. The steering must consist of a mechanical link between the driver and the wheels.~~

~~10.10.2. Four wheel steering is forbidden.~~

~~10.10.3. The steering wheel, steering column and steering rack assembly must be subjected to an impact test. skidDetails of this test procedure may be found in Article 16.6.~~

~~10.10.4. No part of the steering wheel or column, nor any part fitted to them, may be closer to the driver than a plane formed by the entire rear edge of the steering wheel rim. All parts fixed to the steering wheel must be fitted in such a way as to minimise the risk of injury in the event of a driver's head making contact with any part of the wheel assembly.~~

11. BRAKES

Must be original, as supplied by the manufacturer, and without any modification unless permitted by these regulations.

11.1. Separate circuits

All cars must have a brake system which has at least two separate circuits operated by the same pedal. This system must be designed so that if leakage or failure occurs in one circuit, the pedal shall still operate the brakes on at least two wheels.

Only a sole mechanical brake bias adjustment is permitted.

11.2. Brake discs

11.2.1. Only the PFC brake discs provided by the Promoter are allowed. Their brand reference numbers are:

- 280.26.0042.452 (left side)
- 280.26.0042.462 (right side)

They must be according to Drawing 2.

Any disc must be mounted in the side it is designed for.

11.2.2. Brake discs must not be drilled. Additionally, all discs must have a minimum thickness of 24.0 mm along



its entire friction surface.

11.2.3. The weight of a used brake disc must not be less than 3760 g. The weight of a complete but used brake disc assembly must not be less than 4160 g.

11.3. Brake calipers

11.3.1. All brake calipers must be made from aluminum materials with a modulus of elasticity no greater than 80 Gpa.

11.3.2. There must be no more than four brake caliper pistons on each wheel.

11.3.3. The weight of a brake caliper must not be less than 1200 g.

11.3.4. Only the PFC brake pads provided by the Promoter are allowed. Brake pads must be marked with the official logo of the Championship. Their brand reference number is 7735.15.20.54. and according to Drawing 3.

11.3.5. Only the brake fluid *Ravenol Racing Brake Fluid R325+* is allowed. Its brand reference number is 1350604.

~~11.4. Liquid cooling~~

~~Liquid cooling of any part of the braking system is forbidden.~~

11.5. Brake pressure modulation

~~Anti-lock brakes and power braking are forbidden.~~

~~Furthermore,~~ Any device or construction the purpose and or effect of which is to provide non-linear brake system pressures (other than any inherent mechanical non-linearity) is forbidden.

12. WHEELS AND TYRES

Must be original, as supplied by the manufacturer, and without any modification unless permitted by these regulations.

~~Preamble:~~

~~The wheel attachment system should be designed such that the operation of the car is possible without using pneumatic wheel guns.~~

12.1. Location

Complete wheels must be external to the bodywork in plant view, with the rear aerodynamic device removed.

12.2. Wheel material

All wheels must be a single piece type, made from homogeneous metallic materials.

12.3. Dimensions and weights

12.3.1. Tyre

DIMENSIONS

	Manufacturer: HANKOOK		Dimensions
	Slick	Rain	Slick / Rain
FRONT	F200	Z216	230/560R13



REAR	F200	Z217	280/580R13
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Wheel bead diameter: 330mm (+/-2.5mm)

12.3.2. These measurements will be taken horizontally at axle height.

~~12.3.3.~~ The weight of a front rim must not be less than 5400g. The weight of a rear rim must not be less than 6000g.

~~12.4.~~ Maximum number of wheels

~~The number of wheels is fixed at four.~~

12.5. Wheel retention

All cars, whilst under their own power, must be fitted with a device which will retain the wheel fastener in the event of it coming loose.

A safety spring must be in place on the wheel nut throughout the event and must be replaced after each wheel change. These springs must be painted fluorescent red or orange.

Alternatively, another method of retaining the wheels may be used, provided it has been approved by the FIA.

Each wheel must be fitted with two tethers which comply with FIA standard 8864-2013 providing a minimum energy absorption of 6kJ (FIA Technical List N° 37).

12.6. Pressure control valves

Pressure control valves on the wheels are forbidden.

12.7. Aerodynamic influence

Any device, construction or part of the wheel that is designed for the purpose of guiding or influencing the airflow through the wheel, or whose purpose is anything other than transferring load from the tyre to the wheel hub, is forbidden.

13. COCKPIT

Must be original, as supplied by the manufacturer, and without any modification unless permitted by these regulations.

Preamble:

~~The cockpit and all parts of the cockpit installation such as pedals and steering wheel should be designed in a way the drivers with a spread of body size at least from 1,60m up to 1,90m could be fitted in the car while respecting the seating position requirements.~~

~~13.1.~~ Cockpit opening

~~13.1.1.~~ In order to ensure that the opening giving access to the cockpit is of adequate size, the template shown in Drawing 1 will be inserted into the survival cell and bodywork.

~~During this test the secondary roll structure, steering wheel, steering column, seat and all padding required by Articles 14.6.1-5 (including fixings), may be removed and the template must be held horizontal so its lower face is parallel to the reference plane and lowered vertically from above the car until its lower face is 535mm above the reference plane.~~



~~Referring to Drawing 1, the rear edge of the template must be between 1650mm and 1675mm behind the front wheel center line.~~

~~13.1.2. Furthermore, the forward extremity of the cockpit opening, even if structural and part of the survival cell, must be at least 50mm in front of the steering wheel.~~

~~13.1.3. The driver must be able to enter and get out of the cockpit without it being necessary to open a door or remove any part of the car other than the steering wheel. When seated normally, the driver must be facing forwards and the rearmost part of his crash helmet may be no more than 125mm forward of the plane C-C.~~

~~13.1.4. From his normal seating position, with all seat belts fastened and whilst wearing his usual driving equipment, the driver must be able to remove the steering wheel and get out of the car within 7 seconds and then replace the steering wheel in a total of 12 seconds.~~

~~For this test, the position of the steered wheels will be determined by the scrutineer and after the steering wheel has been replaced steering control must be maintained.~~

~~13.2. Steering wheel~~

~~13.2.1. The steering wheel must be fitted with a quick release mechanism. Its method of release must be by pulling a concentric flange installed on the steering column behind the wheel.~~

~~13.2.2. The center of the steering wheel may be no more than 690mm forward of the plane C-C.~~

~~13.2.3. The steering wheel rim must be continuously closed but the shape is free.~~

~~13.3. Internal cross section~~

~~13.3.1. A free vertical cross section, which allows the outer template shown in Drawing 2 to be passed vertically through the cockpit to a point 100mm behind the face of the rearmost pedal when in the inoperative position, must be maintained over its entire length.~~

~~The only things which may encroach on this area are the steering wheel and any padding that is required by Article 14.6.5.~~

~~13.3.2. A free vertical cross section, which allows the inner template shown in Drawing 2 to be passed vertically through the cockpit to a point 100mm behind the face of rearmost pedal when in the inoperative position, must be maintained over its entire length.~~

~~The only thing which may encroach on this area is the steering wheel.~~

~~13.3.3. The driver, seated normally with his seat belts fastened and with the steering wheel removed must be able to raise both legs together so that his knees are past the plane of the steering wheel in the rearward direction. This action must not be obstructed by any part of the car.~~

~~13.4. Position of the driver's feet~~

~~The face of the foremost pedal, when in the inoperative position, must be situated no less than 300mm rearward of A-A and rearward of the front wheel center line.~~

~~13.5. Clutch, brake and throttle pedal~~

The clutch, brake and throttle pedal may only be operated by the driver's foot. Any device or construction that is designed to influence the clutch or brake pressure or the throttle opening by any other means is forbidden.

The only exception to the above are homologated functionalities provided by the ECU.



14. SAFETY EQUIPMENT

Must be original, as supplied by the manufacturer, and without any modification unless permitted by these regulations.

14.1. Fire extinguishers

14.1.1. All cars must be fitted with a fire extinguishing system from the FIA Technical List N°16 : "Extinguisher systems homologated by the FIA". It must be active at all times when the leaves the box.

14.1.2. The number of nozzles in the cockpit and Power Unit compartment must be the same as described in the installation manual (the manuals are listed on the FIA website).

14.1.3. Each pressure vessel must be equipped with a means of checking its pressure which may vary according to the type of extinguishant used. The fill pressure is indicated on the FIA label.

14.1.4. All parts of the extinguishing system must be situated within the survival cell and all extinguishing equipment must withstand fire.

~~14.1.5. Any triggering system having its own source of energy is permitted, provided it is possible to operate all extinguishers should the main electrical circuits of the car fail.~~

~~The driver must be able to trigger the extinguishing system manually when seated normally with his safety belts fastened and the steering wheel in place.~~

~~Furthermore, a means of triggering from the outside must be combined with the circuit breaker switches described in Article 14.2.2. They must be marked with a letter "E" in red at least 80mm tall, with a line thickness of at least 8mm, inside a white circle of at least 100mm diameter with a red edge with a line thickness of at least 4mm.~~

14.1.6. The system must work in any position, even when the car is inverted.

14.1.7. Extinguisher nozzles must be suitable for the extinguishant and be installed in such a way that they are not directly pointed at the driver.

14.2. Master switch

14.2.1. The driver, when seated normally with safety belt fastened and steering wheel in place, must be able to cut off all electrical circuits to the ignition, all fuel pumps and the rear light by means of a spark proof circuit breaker switch. ~~It must also shutdown the ERS system.~~

This switch must be located on the dashboard and must be clearly marked by a symbol showing a red spark in a white edged blue triangle.

14.2.2. There must also be two exterior horizontal handles which are capable of being operated from a distance by a hook. These handles must be situated at the base of the main roll over structure on both sides of the car and have the same function as the switch described in Article 14.2.1.

14.3. Rear view mirrors

14.3.1. All cars must have at least two mirrors mounted so that the driver has visibility to the rear and both sides of the car. The installation must be according to the regulations.

~~14.3.2. The reflective surface of each mirror must be at least 150mm wide, this being maintained over a height of at least 50mm. Additionally, each corner may have a radius no greater than 10mm.~~

~~14.3.3. No part of the mirror reflective surface may be less than 250mm from the car center plane, less than 550mm~~



~~forward or more than 750mm forward of the rear edge of the cockpit entry template.~~

~~No part of the rear view mirrors, the mirror housings or the mirror mountings may be situated more than 500mm from the car center plane.~~

14.3.4. The scrutineers must be satisfied by a practical demonstration that the driver, when seated normally, can clearly view the vehicles behind. ~~define following vehicles.~~

For this purpose, the driver shall be required to identify any letter or number, 150mm high and 100mm wide, placed anywhere on boards behind the car, the positions of which are detailed below :

Height: from 400mm to 1000mm from the ground.

Width: 2000mm either side of the center line of the car.

Position: 10m behind the rear axle line of the car.

14.4. Safety belts

The wearing of two shoulder straps, one abdominal strap and two straps between the legs is mandatory. These straps must be securely fixed to the car and must comply with FIA standard 8853-2016.

~~Detailed calculations have to be provided, showing that the safety belt anchorage points are able to withstand 15kN in any accident direction. Detailed requirements of the calculations can be found in the Appendix to the Technical Regulations.~~

~~The safety belt anchorage points must pass two static load tests, details of which may be found in Article 18.11.~~

~~14.5. Rear light~~

~~All cars must have a red light, in working order throughout the event, which:~~

- ~~a) Is a model approved by the FIA for F3 cars.~~
- ~~b) Faces rearwards at 90° to the car center plane.~~
- ~~c) Is clearly visible from the rear.~~
- ~~d) Is not mounted more than 100mm from the car center plane.~~
- ~~e) Is at least 280mm above the reference plane.~~
- ~~f) Is no less than 450mm behind the rear wheel center line, measured to the face of the lens and parallel to the reference plane.~~
- ~~g) Can be switched on by the driver when seated normally in the car.~~
- ~~h) Must have a minimum peak intensity of 800 Lux covering a minimum angle of 8° vertically and 25° horizontally, when measured at a distance of 1m from the center of the rear face at 23°C ambient temperature after 15 minutes warm up duration powered from a 12V DC supply.~~
- ~~i) Should flash at maximum 4Hz frequency with a minimum 40% duty cycle. The measurements being taken to the center of area of the lens.~~

~~The performance of any design will be verified by the FIA Technical Department before approval.~~

14.6. Cockpit padding

14.6.1. All cars must be equipped with the following areas of padding for the driver's head which:



- a) Are so arranged that they can be removed from the car as one part.
- b) ~~Are located by two horizontal pegs behind the driver' head and two fixings, which are clearly indicated and easily removable without tools, at the front corners.~~

~~The horizontal pegs must be fixed to the padding, symmetrical to the car center plane, with its center axis at least 200mm apart. The survival cell must have receiving openings accordingly with a maximum vertical clearance of 1.0mm. The pegs must engage with the survival cell over at least 12mm, measured parallel to the car center plane.~~

~~No tape or similar material may be used to cover the forward fixings of the headrest.~~

- c) Are made from a material which is corresponding to the specification : CONFOR CF45 (Blue) or CONFOR CF45M (Blue) (FIA Technical List n°17)
- d) ~~In all areas that are not in contact with the chassis, the padding must be covered with two plies of Aramid fibre/epoxy resin composite pre-preg material in plain weave, consisting of one 60gsm fabric and one 170gsm fabric, with a cured resin content of 50%(± 5%) by weight.~~
- e) Are positioned to be the first point of contact for the driver's helmet in the event of an impact projecting the helmet towards the padding;

Are installed such that if any movement of the helmet during an accident, were to compress the foam fully at any point, the helmet would not make contact with any structural part of the car.

Furthermore, for the benefit of rescue crews the method of removal must also be clearly indicated.

~~No part of the padding described above may obscure sight of any part of the driver's helmet when he is seated normally and viewed from directly above the car.~~

Any void between each of these areas of padding must also be completely filled with the same material.

- ~~14.6.2. The rear area of padding must be positioned behind his helmet and be between 75mm and 90mm thick over an area of at least 65000mm².~~

~~The bottom surface must be in contact with survival cell to avoid any vertical movement.~~

If necessary, and only for driver comfort, an additional piece of padding no greater than 10mm thick may be attached to this headrest provided it is made from the same material.

- ~~14.6.3. Whilst normally seated, two side areas of padding must be installed each side of the driver. The padding must extend from the rear area of padding up to 400mm forward of C-C and from 505mm above the reference plane upwards. The upper surfaces of these areas of padding must be at least as high as the survival cell over their entire length.~~

~~The padding must be no less than 95mm thick, this minimum thickness being maintained to the upper edges of the survival cell and over their the entire length of the padding. The minimum thickness will be assessed perpendicular to the car center plane but a radius no greater than 10mm may be applied along their upper inboard edges.~~

~~In order to avoid interference with the driver's shoulders, a cutout is permitted. The cutout must be approved by the FIA Technical Delegate.~~

If necessary, and only for driver comfort, an additional piece of padding no greater than 20mm thick may be attached to this headrest provided it is made from the same material which incorporates a low friction surface.



~~14.6.4.~~ Further cockpit padding must be provided on each side of the cockpit rim from the side areas of padding up to minimum 675mm forward of C-C. The purpose of the additional padding is to provide protection to the driver's head in the event of an oblique frontal impact and must, therefore, be made from the same material as the other three areas of padding.

These extensions must:

- ~~a)~~ Have a minimum height of 75mm over the entire length, measured perpendicular to car center plane.
- ~~b)~~ Be symmetrically positioned about the car center plane and a continuation of the side areas of padding.
- ~~c)~~ Be positioned with their upper surfaces at least as high as the survival cell over their entire length.
- ~~d)~~ Have a radius on their upper inboard edge no greater than 10mm.
- ~~e)~~ between 400 mm and 575 mm forward of C-C, be positioned in order such that the distance between the two is no less than 320mm and no more than 340mm.
- ~~f)~~ Be as high as practicable within the constraints of driver comfort. Cut outs are permitted forward of a point lying 575mm forward of C-C. The cutout must be approved by the FIA Technical Delegate.

14.6.5. In order to minimize the risk of leg injury during an accident, additional areas of padding must be fitted each side of, and above, the driver's legs.

These areas of padding must:

- ~~a)~~ Are made from a material which is corresponding to the specification : CONFOR CF45 (Blue) or CONFOR CF45M (Blue) (FIA Technical List n°17).
- ~~b)~~ Be covered with non-flammable and non-combustible material.
- ~~c)~~ Be no less than 25mm thick over their entire area.
- ~~d)~~ Cover the area situated between the plane B-B and 100mm behind the face of the rearmost pedal when in the inoperative position.
- ~~e)~~ Cover the area above the line A-A shown in Drawing 2.

14.7. Seat, seat fixing and removal

14.7.1. In order that an injured driver may be removed from the car in his seat following an accident, all cars must be fitted with a seat complying with the FIA Specification for Extractable Seats in OpenCockpit Cars.

~~14.7.2.~~ If the seat is secured, it must be done so with no more than two bolts. If bolts are used, they must:

- ~~a)~~ Be clearly indicated and easily accessible to rescue crews.
- ~~b)~~ Be fitted vertically.
- ~~c)~~ Be removable with the same tool for all teams and which is issued to all rescue crews.

~~14.7.3.~~ The seat must be equipped with receptacles which permit the fitting of belts to secure the driver and one which will permit the fitting of a head stabilisation device.

14.7.4. The seat must be removable without the need to cut or remove any of the seat belts.

A test must be carried out on the seat when fitted to a fully representative car with the driver present. Once the buckle has been released it must be possible to extract the seat from the car without any further adjustment of the harness. The seat must be moved in a direction following the vertical axis of the car.



14.7.5. Any seat insert made from foam must be covered with a non-flammable and non-combustible material.

~~14.8. Head and neck supports~~

~~No head and neck support worn by the driver may be less 25mm from any structural part of the car when he is seated in his normal driving position.~~

~~14.9. Towing device~~

~~Each car must be equipped at the rear with a sturdy towing device which must be marked in fluorescent red.~~

14.10. HALO

The homologated HALO device of the FIA Standard 8869-2018 must be used at all times.

The installation and maintenance must follow the instructions of the homologation and the Technical Manual.

15. FUEL

15.1. Fuel

The fuel must comply with ISC Appendix J Article 252.9.1. As well as the sporting regulations of the championships.

15.2. Air

Only air may be mixed with the fuel as an oxidant.

16. FINAL TEXT

The final text for these regulations shall be the English version which will be used should any dispute arise over their interpretation.

Headings and typeface in this document are for ease of reference only and do not form part of these Technical Regulations.



Drawing 1

F4-59) Skid block - unmounted





Drawing 3

