**HURACAN SUPER TROFEO EVO TECHNICAL REGULATIONS 2020**

## CARS ADMITTED

1. Lamborghini Huracan Super Trofeo Evo (with relevant updates).

## GENERAL PRINCIPLES

2. Anything not expressly authorized by these regulations or by the Technical Documentation is prohibited. The official Lamborghini Technical Documentation including Spare Parts Catalogue, Wiring Diagrams, Workshop Manual and Technical Bulletins, has to be considered as reference for what is not specified in the Technical Regulations and on the Technical Form.
   The only operations, which may be carried out, are those necessary for routine maintenance or for the replacement of worn parts or those damaged through accident. It is expected that each entrant will dispose of all the equipment in order to perform these operations. The limits to the modifications and to the assemblies allowed are specified in these regulations. Unless provided by these authorizations, any part altered through wear or accident may only be replaced by a part of identical origin to the damaged piece. Additions to parts or materials are forbidden unless expressly authorized by these regulations or by the Form or by the Technical Bulletins, and by the official Technical Documentation.
   Competition Cars must always follow the specifications of the components to be used and their correct assembly provided by the following references:

   I. Technical Form and Technical Passport;
   II. Technical Manual;
   III. Spare Parts Catalogue;
   IV. comparison with series characteristics, latest construction designs and categorically up-to-date as per Technical Bulletins. Conformity of the Competition Car to its original characteristics is responsibility of Lamborghini.
   V. Identification by anti-counterfeiting stickers or RFID

   The Competitor is responsible for the conformity of the Car and the parts assembled therein, and is therefore obliged to ensure that they are in order before each race.

## SPARE PARTS

3. The Competitors are authorized to use only original spare parts provided by Lamborghini. The use of non-official spare parts without the official Lamborghini sign, will result in penalties or disqualification of the competitors.
   The Lamborghini Technical Scrutineers are able and allowed to check at any time all the spare parts, and in no case shall the competitors try to avoid these checks.

## MINIMUM WEIGHT

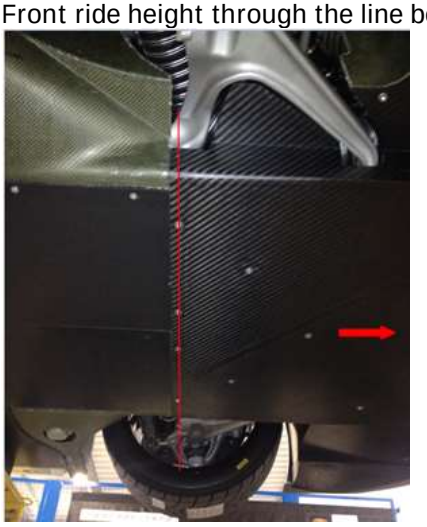
4. Minimum weight:
   The Lamborghini Huracan Super Trofeo cars, including their safety devices and all the lubricants (excluding the fuel), must weight no less than 1270 Kg (excluding the driver).
   Checking of weights may be carried out:
   a) After the official qualifying session
   b) After the race
   It's important to remind that the car should end all the qualifying sessions and the race with at least 3 liters of fuel which is not included into the minimum weight mentioned above.

## MINIMUM HEIGHT

5. Minimum Height

No sprung part of the car (chassis, bodywork, mechanical parts, etc.) is permitted lower than the underfloor.
At any time, it must be possible to check the static minimum height of the car which shall be not less 75mm, measured at the positions shown below

Front ride height through the line below:



Rear ride height through the line below:

For this check the reference tyre pressure of 1.8 bar (26 PSI) will be considered in case of need.

This measurement will be done on the ground reference plane which will be communicated at the beginning of each event.
Checking of height may be carried out:

a) After the official qualifying session
b) After the race

In no case shall the vehicle touch the ground when all tires are deflated.

The Lamborghini scrutineers are allowed to control, at any time, tyre pressure so that it is in compliance with the requirements provided by Pirelli.

Lamborghini will inform the competitor in case of any other modification needed to the heights.

**ENGINE**

6. The engine must be strictly standard. For this reason all the engines will be sealed directly by Lamborghini so that no work can be carried out on them.

   Nobody either Entrant, Competitor, Team or Dealer are allowed to carry out any kind of maintenance work on the engine. Only Lamborghini is allowed to carry out maintenance work on the engine.

   In case of failure the engines have to be sent directly to Lamborghini still sealed.

   In any case before attempting any maintenance work that can involve or damage the seals of the engine all the Competitors will have to inform and ask permission from Lamborghini.

   The Competitor will not be allowed to compete in the event if, at the time of technical scrutineering performed before each event by the Technical Scrutineers with the technical support of Lamborghini, the documentation and seals do not conform with the above.

   Lamborghini reserves the right to check the conformity of the four seals on the engine at any time.

Left Side

Right Side

Bottom

Bottom

Left Side

Right Side

Bottom

Bottom

The retouching of any part of the engine is prohibited; material may not be removed or added unless permitted by these Regulations and/or the Technical Form.

In no case will any kind of work be allowed on the Engine and on its components (nor cylinder heads cleaning nor tuning, etc.).

During the weekend of the races Lamborghini, in agreement with the Technical Scrutineers, reserves the right to replace or check at any time the ECU (electronic control unit) dedicated to the engine /gearbox management system or check the conformity of the SW of the ECU.

To avoid problems and non-authorized changes or modification to the engine, Lamborghini will collect and collate the engine serial number with the chassis number of each vehicle.

For any maintenance or replacement operation, involving the sealings removal, the competitor will have to compile the proper claim form. (annex A).

WARRANTY: engine used in competition are not covered by any warranty.

ELECTRICAL SYSTEM

7. The socket for connecting diagnosis equipment must always be operational and the connection for diagnostics must be accessible at any time for all the ECUs (Electronic Control Units) of the Competition Car so that tests can be conducted upon Lamborghini's request, in agreement with the Technical Scrutineers.

   Data recording systems different to the original one are not admitted.

   The ECU access is forbidden to the teams.

   The acquisition table in the data logger must be the original one indicated by Lamborghini.

   GPS system is permitted only using the "Motec" digital dashboard supplied by Lamborghini.

It is possible to adopt linear potentiometers on the suspension components, ride height sensor and TPMS only as supplied by the official Lamborghini Spare Parts catalogue.

It is compulsory the installation of a radio system to allow drivers to communicate with the team.

Lamborghini reserves the right to check the data after testing and/or racing sessions.

All lights and rain lights must be efficient during the Event.

GEARBOX / TRANSMISSION

8. The gearbox must be the one prescribed by Lamborghini and therefore must be strictly standard.

   For this reason all the gearboxes will be sealed directly by Lamborghini. Any work which requires the seals removal has to be declared to Lamborghini.

   For the repair and maintenance program please adhere to the following procedure, valid for all CEE countries:

   - The defective gearbox can be sent to Lamborghini. Details as to where the gearbox must be returned once overhauling is complete, must be sent to Lamborghini.
   - The gearbox must be sent without actuator (Marelli Kit).

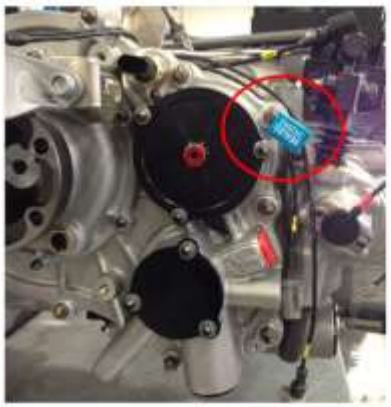
   - The gearbox must be accompanied by the attached documentation fully completed (annex B)
   - For any assistance all Lamborghini Super Trofeo teams must liaise with Lamborghini Super Trofeo Spare Parts Service;
   - In cases where there is damage to the gearbox casings, any replacement will be charged separately;
   - WARRANTY: gearbox used in competition are not covered by any warranty
   - Also in case of failure the gearboxes have to be sent directly to Lamborghini still sealed.

   Or:
   The team can do the gearbox repair or maintenance work individually using the original Lamborghini components as listed in the Spare Parts catalogue. The Team will be allowed to use the gearbox only if sealed again by Lamborghini.

In any case before attempting any maintenance work that may involve or damage the seals of the gearbox all Competitors must have to inform and seek permission from Lamborghini.

The Competitor will not be allowed to start the race if, at the time of technical scrutineering performed before each event by the Technical Scrutineers with the technical support of Lamborghini, the documentation and seals do not conform with the above.

Lamborghini reserves the right to check the conformity of the three seals on the gearbox at any time.



Left Side

Right Side

The retouching of any part of the gearbox is prohibited; material may not be removed or added unless permitted by these Regulations and/or the Form.

During the weekend of the races, Lamborghini, in agreement with the Technical Scrutineers, reserves the right to replace at any time the TCU (transmission control unit) dedicated to the gearbox and gear shifting management.

To avoid problems and non-authorized changes or modification to the gearbox, Lamborghini will collect and collate the gearbox serial number with the chassis number of each vehicle.

For any maintenance or replacement operation, involving the seals removal, the competitor will have to complete the proper claim form. (Annex A)

**WHEELS / TYRES**

9. Only the supplied and available on track (by Pirelli) tyres, slicks or rain, are allowed in the following sizes:

| | |
|---|---|
| Front slick: | 305/645-18 DH |
| Rear slick: | 315/680-18 DH |

Front rain: 305/645-18 WH
Rear rain: 315/680-18 WH

The wheel rims (by Speedline) are made of casted Aluminum and they need to have the following dimensions:

Front: 11" x 18 ET 28,8mm
Rear: 12" x 18 ET 32mm

Only the rims supplied by Lamborghini are allowed.

Is mandatory have 3 wheel sets for each car for easy mounting tires during the events.

Under no circumstances the Camber shall exceed the maximum values of:

Front: 0° up to -3,0° (tolerance + 0,1°)
Rear: 0° up to -3,5° (tolerance + 0,1°)

It is also allowed to adjust the camber, within the permitted limit values, by adding and removing the steel spacers, between the suspension upper levers and the frame.

Lamborghini reserves the right to modify these values according to the circuit.

The measurement of the camber will be performed on the reference plane which will be communicated at the beginning of each event.

## BRAKE SYSTEM

10. Only the following parts are permitted:

- original components from Lamborghini;
- brake cooling intakes, are allowed only in the positions specified in the user manual;
- Front brake discs steel 380x35mm;
- Rear brake discs steel 355x32mm
- Lamborghini Bosch Motorsport ABS M4;
- Monoblock caliper front (6pot)-and rear (4pot) by Brembo Racing;
- Brake bells and fixing Lamborghini original parts;
- Brake Pads by PFC; compounds 13 front and 11 rear ;

Lamborghini reserves the right to make, at any time, checks on the conformity of the braking system.

The use of discs or brake pads other than those established by the following rules will be considered illegal.

## SHOCK ABSBORBERS

11. Only the original shock absorbers are allowed: Ohlins TTX-36 (2-way).
The dampers must comply with the configuration released by Lamborghini concerning the hydraulics and bump stop.
It will not be possible to remove, add, cut or modify the bump stop.

Front Bump Stop

Rear Bump Stop

Lamborghini reserves the right to verify the shock and / or need to be replaced with other guaranteed by the manufacturer any time during the event.

PIPES/WIRING/HEATING SHIELD AND PROTECTIONS

12. The arrangement of all the components must remain as per the original layout and/or as per official Technical Bulletin from Lamborghini.

CAR BODY / INTERIOR

13.

a) Pedals: the brake and accelerator pedal surfaces may be customized and changes should not in any way pose a threat to safety.

b) Seat: the seat supplied by Lamborghini must be retained, along with its relative fixing screws for securing it to the body.

c) Lamborghini does not allow the installation and the use of a passenger seat in the Lamborghini Super Trofeo.

The use of the second seat is only permitted during private testing.
It won't be possible to participate at the event with the second seat on board.

The Competitors are not allowed to modify the brackets and/or the fixing points of the seat, which at all times must be in the original condition and/or in the available positions.

d) Only one spacer can be used directly between the steering wheel and the quick release system. Only spacers and screws provided by Lamborghini can be used.

e) No part of car body may be improved, modified or material added. All parts must correspond in size, appearance and material to the originals. The original position of car body parts may not be altered, nor adhesive tape affixed nor bonnets, bumpers or doors, etc., modified to improve the car's aerodynamics.

f) To improve interior ventilation adoption is permitted the air scoop provided by Lamborghini through After Sales.

g) Side windows must be retained :
   I. Driver side door window may be removed and replaced with a window net meeting FIA specification (FIA Art.253.11)
   II. Passenger side door window may be removed with no window net required

h) It is permitted the installation of "Cool Box" and "Cool Shirt" that must be purchased by pilots Lamborghini through After Sales as the only one to be FIA approved.
The fixing of the device may take place on the floor of the vehicle on the passenger side with the use of an appropriate containment tank connected with the chassis side via 4xM6. The power supply must be made using the available power outlets in the car.

i) The Super Trofeo cars MUST:
- Install the left and right side head restraint nets which comply with SFI 37.1.

## FUEL

14. All the cars must use only the same allowed fuel with 98 RON or the fuel supplied by Lamborghini during the event. No other type of fuel or additive is allowed.

During each race upon fueling a sample may be taken to make comparative tests on the fuels used by the competitors during practice sessions and/or the race itself. Lamborghini will transport the fuel samples, taken by the Technical Scrutineers in the presence of the Competitor or his representative, to the test labs.

## LUBRICANTS

15. All Competitors must only use the following lubricants for the related parts, namely:

| | |
|---|---|
| Engine Oil: | CASTROL EDGE SPORT 10W60<br>PERTAMINA FASTRON 10W60 |
| Gearbox Oil: | CASTROL SYNTRAX LONGLIFE 75W90 or<br>PERTAMINA 75W90 |
| Brake System Oil: | CASTROL SRF or BREMBO HTC64T |
| Hydraulic Power Steering Oil | LIQUI MOLY ATF III |
| Cooling system: | WATER+ 5% WATER WETTER |

In events with climatic conditions at high temperatures is recommended to use Water plus Water Wetter for better cooling.
During the Series events, lubricant samples can be taken for testing. All the cars, in order to be allowed to start the race, need to have all the lubricants reaching the full (high) level, and/or the level recommended by Lamborghini. The Technical Scrutineers will be in charge of this checking process, and at no time shall the Competitor try to avoid them

## SAFETY DEVICES

16. The car fully complies with the APPENDIX J (Article 277) of the International Sporting Code concerning the safety devices:

| | |
|---|---|
| Brake system safety | (253-4) |
| Circuit breaker | (253-13) |
| Fuel tank FT3-1999, pipes, pumps and filter | (259-6.3<br>253-3.1<br>253-3.2<br>253-3.3<br>253-3.4<br>257A-6.3 |

| | |
|---|---|
| | 259-6.4) |
| Carburant | (252-9) |
| Oil catch tank | (259-7.4) |
| Electric cables | (259-8.5) |
| Safety belts | (259-14.2.1) |
| Reverse gear | (275-9.3) |
| Suspension arm | (275-10.3.1<br>275-10.2) |
| Wheel material | (275-12.2) |
| Extinguisher | (253-7) |
| Rear view mirror | (253-9) |
| Rear light | (259-8.4.2) |
| Headrest | (259-14.4) |
| Towing eye | (259-14.6) |
| Firewall | (259-16.6) |
| Windscreen | (259-3.6) |
| Windscreen wiper | (259-3.6) |
| Roll cage | (253-8) |
| Seat | (253-16) |
| Roll cage padding | (253-8.3.5) |
| Ground clearance | (252-2.1) |

All the aforementioned safety devices must be original. It is not permitted to change the number and the original position of the nozzles and fire- extinguisher.

During any track session the wearing of the HANS® device is compulsory. Use of the HANS® device must either comply with and follow the contents of Appendix L, Chapter III, art. 3 of the FIA Code or with current IMSA approved standards.

For more details please refer to the "Guide for the Use of HANS® in International Motor Sport", published by the FIA Institute for Motor Sport Safety, the information can be found on www.fia.com, under the heading FIA Sport - Regulations - Driver's Equipment.

The team is responsible for the correct maintenance and validity of the safety devices.

### FT3-1999 FUEL SYSTEM

17. The Lamborghini Super Trofeo cars must equip the complete system including:

- FT3-1999 rubber fuel tank with internal foam (the total capacity with the foam is 118 L);
- 4 lift pumps and main fuel pump installed inside a nourice (6l capacity);
- the internal fuel system layout Including fuel hoses and specific connections;
- the external fuel system made of special fuel hoses with metallic protection and Ergal connections;
- the electrical wiring loom (fuel resistant);
- 1 fuel tank flange with non-return flap valve FIA homologated;
- 1 fuel tank flange with gravity activated roll-over valve;
- 1 ventilation/breather valve 200mbar homologated by FIA;
- 1 cut- off 'quick disconnect' connector;
- 2 safety filler necks;
- 2 refueling and ventilation plastic bottles;
- Carbon Fiber Protective Fuel Tank Case;
- 2 fuel sample/ and fuel tank drain connector.

a) All FIA certifications released to the team must be kept and will be object of inspection during the Lamborghini Super Trofeo official events. The FIA fuel tank homologation must be always visible in order to allow the necessary validity inspections;

IMPORTANT

Please note that the FT3- 1999 has a validity of 5 years from the date of manufacture indicated on the fuel tank. At the end of 5 years will be required:

- Revise the tank (by the manufacturer) with the extension of validity for 2 years;

Or

- Replace the tank.

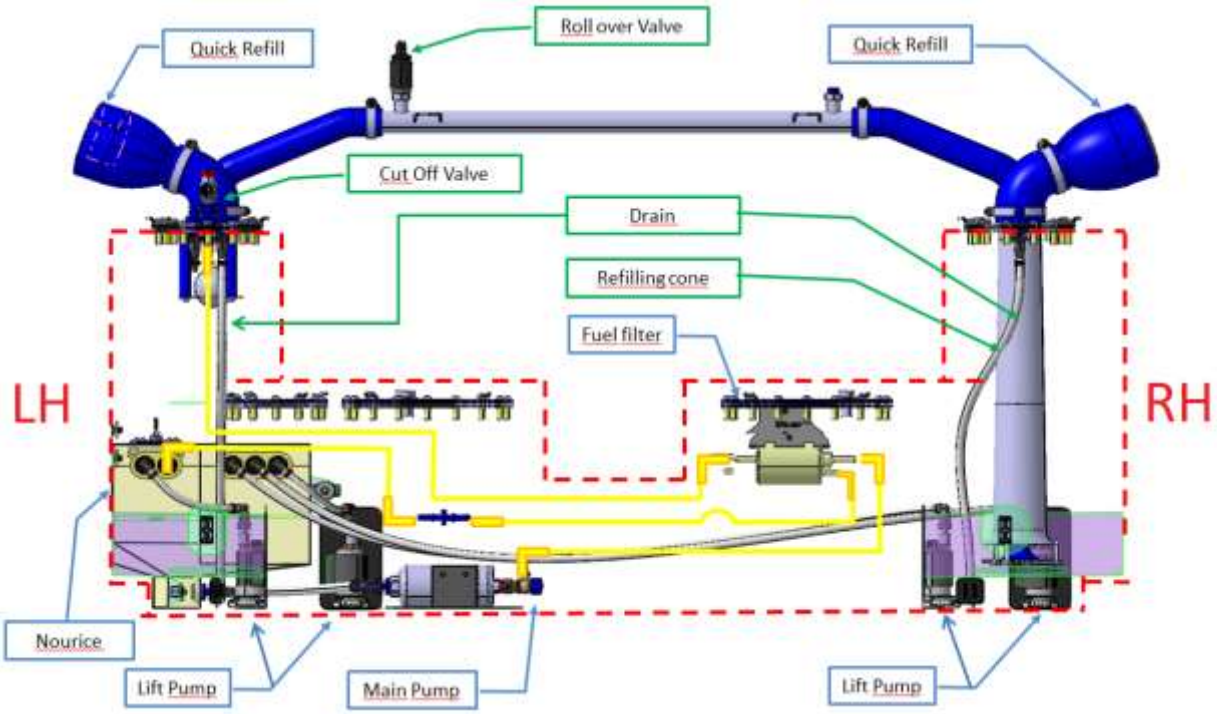
b) It is not permitted to perform any kind of modification to the FT3 fuel system;

c) Lamborghini does not allow the use of non-certified materials and not conforming to the FT3 fuel cell;

d) It is strictly forbidden to carry out any modification to the components of the original refueling system;

e) All the teams must comply with the installation procedures supplied by Lamborghini;

Here below find the fuel system scheme:




FINAL DIRECTIONS

18. Lamborghini reserves the right to change any clause and regulations herein at any time to ensure the successful outcome of the Lamborghini Super Trofeo.

ANNEX A

# Application for
# Engine/gearbox replacement

The Team: _____

**Requires the replacement of** (check with X):

- Engine (Id number): <_____><_____>
- Gearbox (Id number):<_____><_____>

**of the car:**

Chassis number:_____

**for the following reason:**

_____

_____

_____

Team Manager

_____

Date

_____

APPROVAL

Super Trofeo Technical Delegate

_____

Super Trofeo Coordinator

_____

Stamp and
Date

ANNEX B

## GEARBOX INFORMATIONS:

| Gearbox Part no. | Gearbox Serial no. | Seals no. |
|---|---|---|
| | | |
| Gearbox Already overhauled? (Yes/No) | If Yes, specify: (Minor Revision/Main Revision) | Km/mile age |
| | | |
| No. of delivery note | Date of delivery note | Seals no. |
| | | |

| FAILURE DESCRIPTION AND ACTIONS TAKEN |
|---|
| PLEASE TICK THE BOXES BELOW<br>WHAT KIND OF FAILURE DOES THE VEHICLE SHOW?<br><br>HAVE ANY ACTIVITIES BEEN MADE ON THE GEARBOX?<br>IF YES, PLEASE INDICATE WICH ONE<br><br>PLEASE TICK THE BOXES BELO |

**NOISY GEARBOX**

- PLEASE INDICATE IN WHICH GEAR:

  1° ☐ 2° ☐ 3° ☐ 4° ☐ 5° ☐ 6° ☐ REVERSE ☐ BEVEL SET ☐

- PLEASE INDICATE AT WHICH SPEED (Km/h – mls/h):
- PLEASE INDICATE IN WHICH CONDITIONS:

  DRIVE AND COAST ☐ DRIVE ☐ COAST ☐

- IS DIFF NOISY IN SHARP TURNS? YES ☐ NO ☐
- OTHER COMMENTS:

**OIL LEAK:**

- IN WHICH AREA IS THE LEAK? (PLEASE ATTACH PICTURE)
- OTHER COMMENTS:

**GEARBOX SHIFTABILITY**

- BLOCKING: 1° ☐ 2° ☐ 3° ☐ 4° ☐ 5° ☐ 6° ☐ REVERSE ☐
- MISSING ENGAGEMENT: 1° ☐ 2° ☐ 3° ☐ 4° ☐ 5° ☐ 6° ☐ REVERSE ☐
- DISENGAGEMENT: 1° ☐ 2° ☐ 3° ☐ 4° ☐ 5° ☐ 6° ☐ REVERSE ☐
- IN COLD CONDITION ☐ IN HOT CONDITION ☐ ALWAYS (COLD AND HOT) ☐
- OTHER COMMENTS:

**BAD SINCRONYSATION (CLASHING):**

- PLEASE INDICATE IN WHICH GEAR:

  1° ☐ 2° ☐ 3° ☐ 4° ☐ 5° ☐ 6° ☐ REVERSE ☐

- IN COLD CONDITION ☐ IN HOT CONDITION ☐ ALWAYS (COLD AND HOT) ☐