

2026 TECHNICAL REGULATIONS

Revision Date: 06/16/2026



Series:

IMSA VP RACING SPORTSCAR CHALLENGE



Class:

GSX



Sanctioned by:

**INTERNATIONAL
MOTOR SPORTS
ASSOCIATION**

One Daytona Blvd.
Daytona Beach, FL 32114
(O) +1 (386) 310-6500
(F) +1 (386) 310-6695
www.imsa.com

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Foreword:

For all Members, the IMSA RULES of the International Motor Sports Association establish the foundation for the organization and conduct of all IMSA Sanctioned Events. The IMSA RULES take effect immediately upon publication.

The purpose of the RULES is to: (i) promote safety, the sport of automobile Competition and IMSA, (ii) enhance Competition, (iii) ensure the quality, fairness and integrity of the IMSA programs and operations and (iv) achieve prompt finality in the Competition results (“Purpose”).

ALL MEMBERS ARE REQUIRED TO REVIEW THESE IMSA RULES CAREFULLY.

The IMSA RULES consist of following three (3) sections and the Event Supplementary Regulations (SR):

- The Technical Regulations, which outline the rules and regulations for the specific cars and equipment. The Technical Regulations may be modified or changed at any time by the publication of a Technical Bulletin, amending the Technical Regulations.
- The IMSA Sporting Regulations (ISR), which concern Competitor and Event procedures, as well as guidelines for the safe and uniform operation of the sport. The ISR may be modified or changed at any time by the publication of a Competition Bulletin, amending the ISR.
- The Series Supplementary Regulations (SSR) that provides Series-specific information about each IMSA Series. The SSR is integrated into the ISR and are designated with “(SSR)” next to the Paragraph title. The SSR may be modified or changed at any time by the publication of a Competition Bulletin, amending the SSR.

Any portion of the RULES may be modified though Bulletins (Competition Bulletins and Technical Bulletins, respectively) and takes force when published. Once published, the Bulletin shall take precedence over the applicable portion of the RULES. Additionally, the RULES may be modified for an Event by the Race Director through the mandatory briefing instructions.

HOW TO READ THE RULES

IMSA Technical Regulations follow a common philosophy across all Classes. The IMSA Technical Regulation philosophy can be summed in the following concepts:

- Cars are constructed and regulated to a controlled standard, the vehicle Homologation.
- Modifications to the Car are not permitted unless specifically stated in the applicable class’s Technical Regulations.
- The Car, at all times, must adhere to:
 - The current Homologation Document(s) and valid extension documents (e.g., EVO).
 - The Manufacturer’s or Constructor’s Parts Manual (where applicable by the RULES).
 - Manufacturer submitted and IMSA approved declarations (where applicable).
 - The IMSA Technical Regulations for the Class
- Normal adjustment of the Car is permitted as defined by the applicable Car’s Homologation and Class’s Technical Regulations.
- Repair of the Car, parts, and components is permitted, provided it serves no additional purpose other than the repair itself. All such repairs must meet all Constructor / Manufacturer specifications and regulatory requirements.

(cont.)

Modifications by an Entrant to parts, systems, and/or components of the Car is not permitted for any reason. An Entrant wishing to perform any modification(s) must present modification(s) to the applicable Manufacturer or Constructor for formal approval from the applicable Homologating Authority for the Class. Entrants are not permitted to work directly with a Homologating Authority(s).

Entrants must have a current copy of the applicable Homologation for their Car Model at all times, as well as full access to the Manufacturer's / Constructor's Part Manual. Both of these documents together clearly identify the compliant specification of the Car and will be used as reference materials for both the Entrant and IMSA (where applicable by the RULES). A copy of the Homologation may be provided by the applicable Manufacturer / Constructor or purchased from the Homologating Authority.

IMSA's regulations work in conjunction with Homologation regulations from a Homologating Authority. This sometimes creates conflicts across the various regulation sets. Often the Homologating Authority has a combined set of Technical and Homologation regulations.

The hierarchy of these various regulations applies in descending order is as follows:

1. IMSA Class Technical Regulations and Bulletins
2. These IMSA Technical Regulations shall govern in any case where a conflict exists with the Homologation Regulations and Documentation.
3. Homologation Authority Technical Regulations and corresponding Homologation Form.

Example 1: Incorrect process

A Team has found that a suspension part of the Car is prone to failure when going over large bumps. The Team chooses to resolve the problem on their own and modifies the part with components made in their own shop, which are not in the Homologation or Parts Manual of the Car. IMSA Technical Staff find this modification during a post-Race inspection. IMSA finds that the car is not in the approved configuration and the Entrant is penalized.

Example 2: Correct process

A Team suspects a part on the Car may be prone to failure during longer races. The Team therefore informs their Manufacturer or Constructor representative of their concern. The Manufacturer or Constructor agrees that a modification or redesign is appropriate and submits a written proposal with supporting documentation to the Homologating Authority for review. Upon approval the Homologation documents are updated and distributed for equitable customer awareness and part implementation.

Homologation Authority for the Class:

Class	Homologating Authority
GSX	SRO

EXECUTIVE LEADERSHIP MASTHEAD

John Bishop* / Bill France, Sr.*

Founders – IMSA

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Legacy Vice Chairman

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John Doonan

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Amanda Oliver

Lead Counsel

Simon Hodgson

Senior Vice President, Competition

Brandon Huddleston

**Vice President, Partnership Marketing
and Business Development**

***Deceased**

ARTICLE 1. DEFINITIONS SPECIFIC TO THE TECHNICAL REGULATIONS

- 1.1.1. **Car** means a singular representation of a Car Model, entered by an Entrant in an Event.
- 1.1.2. **Car Model** means a specific model of a vehicle constructed by an IMSA-recognized Manufacturer Partner, and intended for Competition.
- 1.1.3. **Class** means a category for Cars sharing a common set of Homologation Regulations and differentiated from others by type of Car Model.
- 1.1.4. **Competition** means a contest of competitive nature in which a Car takes part during an Event and results of which Competition are published.
- 1.1.5. **Constructor** means an entity that designs and builds race car chassis.
- 1.1.6. **Entrant** means an entity or person who has entered a Car that has been accepted for Competition and holds an IMSA Membership in the capacity of an Entrant or Entrant/Driver.
- 1.1.7. **Event** means an IMSA Sanctioned motorsport activity. It includes the designated Race as well as all periods for registration, inspections, practice Sessions, qualifying Sessions, racing, pre- and post-Race activities and inspections, and rain or postponed dates related thereto.
- 1.1.8. **Homologate** means to execute the Homologation Process.
- 1.1.9. **Homologated** means a Car Model approved through the Homologation Process.
- 1.1.10. **Homologation** means the concept of all things associated with Homologation Authority approval via the Homologation Process.
- 1.1.11. **Homologation Authority** means an entity with the authority to Homologate.
- 1.1.12. **Homologation Documentation** means all files, documents, information, and communication associated with the issuance of official approval of Homologation.
- 1.1.13. **Homologation Identifier** means the unique identifier (generally including a string of characters identifying the Category or Class of Homologation followed by a sequential number assigned to the Car Model) serving as a reference to the official approval of Homologation, assigned by the Homologation Authority.
- 1.1.14. **Homologation Process** means all procedures associated with petitioning a Homologation Authority for approval that a Car Model complies with the Homologation Regulations.
- 1.1.15. **Homologation Regulations** means a set of technical requirements and criteria used to design, construct, and document a Car Model intended for racing in a specific category or class of racing.
- 1.1.16. **Manufacturer** means a Manufacturer Partner constructing an approved Car Model.
- 1.1.17. **Manufacturer Partner** means a recognized IMSA Official Automotive Partner.
- 1.1.18. **Specification** means all technical characteristics of the Car Model defined by the Homologation and Technical Catalog.
- 1.1.19. **Specific Homologation** means the Homologation specific to a particular Car Model.
- 1.1.20. **Technical Catalog** means IMSA's collection of data and documents supporting a Car Model.
- 1.1.21. **Technically Eligible** means conforms to all technical requirements and criteria defined by these Technical Regulations.

ARTICLE 2. TECHNICAL PHILOSOPHY

2.1. Technical Eligibility

- 2.1.1. Cars representing a Car Model must always respect the Specification.
- 2.1.2. To be eligible for participation in this Class, a Car Model must:
 - a. Be a Car Model constructed by an IMSA-recognized Manufacturer Partner.
 - b. Hold a valid Homologation, approved and issued by an IMSA-recognized Homologation Authority.
- 2.1.3. IMSA is the sole authority to define the Technical Eligibility of a Car Model and issue the Technical Credential.

2.2. Changes

- 2.2.1. Changes to the Specification are prohibited, unless explicitly authorized by IMSA.
- 2.2.2. Manufacturers alone are permitted to petition IMSA to change the Specification; requests by Entrants are not recognized.
- 2.2.3. IMSA retains sole authority to accept change(s) and/or update(s) to a Homologation (e.g. Variant Option, EVO, etc.) within fourteen (14) days of load in for an Event.

2.3. Conflict Resolution

- 2.3.1. These IMSA Technical Regulations shall govern in any case where a conflict exists with the Homologation Regulations and Documentation.

2.4. Final Authority

- 2.4.1. IMSA is the Final Authority with respect to these Technical Regulations.

2.5. Conditions for Use of a Specific Homologation

- 2.5.1. At all times during IMSA-sanctioned Events it is the Entrant's responsibility to ensure the configuration of the Car Model represents the Homologation components of the Specification; including:
 - a. As-Homologated Configuration
 - b. Homologation Extension Form Configuration
- 2.5.2. IMSA, in its sole discretion, may consider the Parts Manual and/or the As-Delivered condition for additional detail of parts or equipment not adequately detailed in the Homologation. Inclusion of parts or equipment in the Parts Manual and/or the As-Delivered condition does not explicitly permit their use.
- 2.5.3. The original, As-Homologated Configuration of the Car Model must not be modified unless permitted by these Technical Regulations.
- 2.5.4. The As-Delivered Configuration of a Car must respect the as-received configuration from the Car Model Manufacturer, unless permitted by these Technical Regulations.
- 2.5.5. The Parts Manual is the official parts catalog for the Car Model as defined by the Car Model Manufacturer or Constructor:
 - a. Specific parts listed in the Parts Manual must be used on all representations of a Car Model unless permitted by these Technical Regulations.
- 2.5.6. To be eligible for use in any IMSA-sanctioned Event, modifications detailed in Homologation Extension Forms must:
 - a. Be approved by, or have initiated the process to obtain approval from, the Homologation Authority, and appended to the Car Model Homologation.
 - b. Be approved by IMSA.
 - c. Be available to all Entrants of the relevant Homologated Car for the next Event.

ARTICLE 3. TECHNICAL TESTING AND VERIFICATION

3.1. Reference Components

- 3.1.1. IMSA may request Manufacturers submit reference components, tooling, and/or templates to the IMSA Technical Department.
 - a. IMSA may retain these components without compensation.
 - b. Manufacturers are responsible for all costs as related to submitting reference components.
 - c. Fees may apply.

3.2. Technical Testing

- 3.2.1. Testing conducted by IMSA; may be performed including, but not limited to:
 - a. Restrictor Flow
 - b. Engine/Chassis Dyno
 - c. Wind Tunnel
 - d. On-track Testing
 - e. Refueling Testing
- 3.2.2. Testing and associated costs are the responsibility of the applicable Manufacturer or Constructor.

ARTICLE 4. BALANCE OF PERFORMANCE

4.1. Balance of Performance

- 4.1.1. IMSA may, at its discretion, utilize an adjustment method to maintain competitive equivalency between Cars within each Class, and between Classes.
 - a. Details of the Balance of Performance Process are described in Attachment 2 of the applicable Sporting Regulations.
- 4.1.2. Technical Bulletins are an extension of these Regulations and part of the Rules.
- 4.1.3. Providing false or intentionally misleading information is a breach of these Technical Regulations.
- 4.1.4. When not specifically issued for GSX, the GSX Cars must comply to the published Balance of Performance for the applicable Event.

ARTICLE 5. SAFETY

5.1. Driver Safety Harness System

- 5.1.1. Cars must be equipped with a minimum 6-point Driver safety harness with a valid label demonstrating compliance with one of the following standards:
 - a. FIA Standard 8853/98: FIA Safety Harnesses Standard
 - i. [FIA Technical List #24](#): Harnesses Homologated by the FIA according to the FIA Standards 8853/98 and 8854/98
 - ii. Prohibited in 2023 onward.
 - b. FIA Standard 8853-2016: Safety Harnesses
 - i. [FIA Technical List #57](#): Harnesses Homologated according to the FIA Standard 8853-2016.
 - ii. Mandatory in 2023 onward.
- 5.1.2. Installation must be performed in accordance with instructions provided by the system supplier and/or manufacturer.
 - a. Belt components must be installed at each anchor point to prevent accidental release or opening.
 - b. Individual belt straps must be independent; any method or attempt to combine individual straps is prohibited.
 - c. Elastic retention straps are prohibited on shoulder belts

- 5.1.3. Harnesses must be replaced at the request of IMSA, or whenever the following conditions occur:
- a. Expiration:
 - i. FIA Homologated: Immediately following December 31st of the year printed on the label.
 - b. Damage:
 - i. Following a severe collision.
 - ii. Webbing is cut or frayed, or weakened due to actions of chemicals or sunlight.
 - iii. Buckles are bent, deformed, rusted, or improperly functioning.
- 5.1.4. Entrants are responsible for ensuring the Driver safety harnesses and all associated components are properly labeled, installed, used, and maintained.
- 5.1.5. Belt components must be used as designed by the manufacturer and tested by SFI or FIA. It is prohibited to “mix” belt components to include:
- a. Belt components from different manufacturers.
 - b. Belt components certified by SFI and FIA.

5.2. Seat

- 5.2.1. As Homologated
- 5.2.2. Seat Inserts
- a. Seat insert materials must respect either:
 - i. [FIA Technical List 50](#)
 - ii. [SFI Specification 45.2](#)

5.3. Driver Containment Nets

- 5.3.1. Cars must be equipped with center, and Driver-side containment nets with a valid label demonstrating compliance with one of the following:
- a. FIA Standard 8863-2013: Racing Nets
 - i. [FIA Technical List #48](#): Racing Nets Homologated according to the FIA Standard 8863-2013
 - b. SFI Specification 37.1: Roll Cage Nets
 - i. [Specification](#)
 - ii. [Manufacturers](#)
- 5.3.2. Installation requirements:
- a. Supplier and/or manufacturer installation instructions must be respected.
 - b. Horizontal webbing must be oriented towards the Driver.
 - c. When secured at anchor points, nets must be:
 - i. Oriented parallel to the Car centerline.
 - ii. Located with minimal gap to the Driver’s helmet.
- 5.3.3. Containment nets must be replaced prior to the expiration date:
- a. FIA Homologated: Immediately following December 31st of the year printed on the label.
 - b. SFI Certified: (punched/cut label): Two years from the date as stated on label. If label is not properly “cut” by the manufacturer or their representative, the date for expiration shall be January 1st of the earliest year printed on the label + two year.
 - c. SFI Certified (non-punched label): On June 30th or December 31st: of the year identified as the date for expiration.
- 5.3.4. Driver Containment Nets must remain free of modification(s) and/or signage.

5.4. Protective Padding

- 5.4.1. Cars must be equipped with non-flammable protective padding with a valid label demonstrating compliance with one of the following standards:

- a. FIA Standard 8857-2001: FIA Roll Cage Padding Standard
 - i. [FIA Technical List #23](#): Roll Cage Padding Homologated by the FIA
 - b. SFI Specification 45.1: Roll Cage Padding
 - i. [Specification](#)
 - ii. [Manufacturers](#)
- 5.4.2. Installation requirements:
- a. Padding must be located to protect the Driver (body and/or helmet) against direct contact with the safety cage in a collision.
 - b. Protective padding must be securely affixed to prevent rolling or displacement.

5.5. Master Electrical Switches

- 5.5.1. As homologated
- 5.5.2. Systems must remain functional during any on-track activity or at the request of IMSA.
- 5.5.3. Interior and exterior master switches must be clearly identified by a self-reflective symbol of a red spark surrounded by a white-edged, blue triangle with a base greater than 30 mm.

5.6. Fire Suppression System

- 5.6.1. Cars must be equipped with a fire extinguisher system with a valid label demonstrating compliance with one of the following standards:
 - a. FIA Standard for plumbed-in Fire Extinguisher Systems in Competition Cars (1999):
 - i. [FIA Technical List #16](#): Extinguisher Systems Homologated by the FIA
 - b. FIA Standard 8865-2015: Plumbed-in and Hand-Held Fire Extinguisher Systems
 - i. [FIA Technical List #52](#): Plumbed-in Fire Extinguisher Systems according to FIA Standard 8865-2015
 - c. SFI Specification 17.1: On Board Fire Suppression Systems
 - i. [Specification](#)
 - ii. [Manufacturers](#)
- 5.6.2. Extinguishing media must be compatible with all aspects and accessories of the fire suppression system.
 - a. Compliance with FIA 8865-2016 is recommended.
 - b. All system components must be used and serviced per manufacturer specifications.
- 5.6.3. System must be securely mounted.
 - a. The following must be visible without the use of photography, tools, or seat removal:
 - i. Pressure gauge (if present)
 - ii. Date of manufacture
 - iii. Next required service date
 - b. Nozzles must not point directly at the Driver's face.
- 5.6.4. System must include an exterior activation mechanism proximal to the exterior master electrical switch at (or near) the base of the left side A-Pillar.
 - a. Exterior activation mechanism must be located such that emergency responders can activate with a single action:
 - i. Using a gloved finger, or tools such as a hook.
 - ii. Unencumbered by bodywork, windscreen wipers, or any equipment that requires multiple actions.
 - b. A method for preventing activation of the exterior activation mechanism:
 - i. Must be enabled when the Car is in Technical Inspection, in the Paddock, or located near large crowds, such as during pre-Race activities.
 - ii. Must be removed prior to participation in on-track activity.

5.6.5. Identification

- a. Exterior activation mechanism must be marked with a self-reflective symbol with a red edge surrounding a red "E" inside a white circle at least 100 mm in diameter.

5.6.6. Inspection

- a. IMSA may require removal of the fire bottle for Technical Inspection.
- b. Entrant is responsible to demonstrate proper system function of the interior and exterior fire suppression activation mechanisms, using the "test" mode if present.

ARTICLE 6. DEFINITION OF CLASS

6.1. GSX

- 6.1.1. Class Structure: Grand Sport cars compete in the GSX Class of the IMSA VP Sprint Challenge (VPRC).
- 6.1.2. Eligibility Requirements: To be eligible for participation in the Class, a Car Model must respect the Specification defined by the Homologation and Technical Eligibility requirements:
 - a. Homologation (GT4):

Homologation Authority:	Royal Automobile Club of Belgium (RACB)
Homologation Specification:	Stephane Ratel Organization (SRO) Group GT4
Homologation Regulations:	2026 SRO Group GT4 Technical Regulations

ARTICLE 7. VEHICLE SYSTEMS

7.1. General

- 7.1.1. All Vehicle Systems and associated sub-systems are listed in this Article.
 - a. Where change to the Homologated Vehicle Systems is permitted, regulatory text is **bold and underlined**.
 - b. Where change to the Homologated Vehicle Systems is prohibited, regulatory text is *light grey*.
 - c. Advisory statements are in normal text.

7.2. Modifications to the Specification

- 7.2.1. Entrants are permitted to execute the following changes to parameters defined by the Homologation component of the Car Model Specification, provided these Technical Regulations, all current Technical Bulletins, and the Technical Credential are fully respected:
 - a. Adjust component settings defined as adjustable.
 - b. Replace components with parts defined as optional.
- 7.2.2. Manufacturers must make any declarations listed in these Technical Regulations in the Technical Eligibility Form.
- 7.2.3. Further authorization to modify the Specification and/or As-Delivered Condition is granted via the following formal communication methods:
 - a. Published IMSA Technical Bulletin
 - b. IMSA Technical Committee Bulletin
- 7.2.4. Informal and/or verbal communication is not considered valid authorization.
- 7.2.5. Cars also participating in the GS Class may utilize modifications permitted per GS Technical Regulations.

7.3. Servicing, Repair, and Replacement

- 7.3.1. All servicing or repair must be made in good faith to restore the Car and all components to their originally intended form and function as defined by the Specification.
- 7.3.2. Entrants are permitted to replace damaged or worn components provided these Technical Regulations are respected.

7.4. Dimensions

7.4.1. General

- a. IMSA's calibrated measurement instruments are the official measurement instruments.
- b. Scrutineering measurement(s) are taken with the applicable dry-type tire set installed.
 - i. Tire compound per the applicable Event SR.
- c. Tire pressure shall be set at 30.0 psi (± 0.5 psi) for scrutineering measurement(s).

7.4.2. Reference Surface

7.4.3. Mass

- a. The minimum mass for all Car Models is defined via Balance of Performance Tables and associated Technical Bulletins.
- b. Car mass is measured as-raced minus Driver and Fuel using the IMSA scales during Technical Inspection.

7.4.4. Ballast

a. Entrants are permitted to add or remove ballast to achieve minimum mass:

- i. Ballast must be in plate or panel form.
- ii. Addition or removal of ballast during the race is prohibited.

b. Entrants using Cars without specific Homologated locations must:

- i. Locate all ballast inside the cockpit in the passenger's location.
- ii. Secure all ballast per FIA Article 253-16 in both dimensions and characteristics of fixation methods.
- iii. Design fixations such that tools are required for its removal.

- c. The Homologated ballast box is permitted to be removed when no ballast is present.

7.4.5. Minimum Ride Height

- a. The minimum ride height for all Car Models is defined via Balance of Performance Tables and associated Technical Bulletins.
- b. Ride Height is measured at the points specified in the Homologation Document during Technical Inspection.

7.4.6. Overall Dimensions

- a. Length
- b. Width
- c. Height
- d. Wheelbase
- e. Track
- f. Overhang
- g. Width

7.5. Chassis

7.5.1. General

a. Entrants are permitted to execute minimum modifications for the installation of approved components.

- i. All modifications must be approved by IMSA.

7.5.2. Air Jack System

a. Air Wand Receptacle

- i. Air wand receptacles may be repositioned symmetrically about the longitudinal axis of the car unless alternate mounting locations are specifically identified in the Homologation Document.

7.6. Driver Interface

7.6.1. General

a. Entrants are permitted to install up to two (2) defogging fans and associated ducts

- i. Installations must be approved by IMSA
- ii. System must not serve an additional purpose

- iii. System must not inhibit visibility or cockpit ingress/egress

7.6.2. Steering Wheel

7.6.3. Pedal Box

- a. **Entrants are permitted to apply non-slip adhesives to the surface of driver pedals.**

7.6.4. Shifting Mechanism

7.6.5. Driver Adjustable Components

7.6.6. Driver Cooling Systems

- a. **Entrants are permitted to install a maximum of two (2) Driver Cooling Systems, i.e. Cool Suits.**

- i. Installation of Driver Cooling System(s) is subject to IMSA approval
- ii. Driver cooling systems must use non-flammable refrigerant (e.g. R134a, water).
- iii. Driver cooling system must not impede driver egress.

- b. Installations must meet the following conditions:

- i. The mounting location and installation for the primary system is unrestricted provided it serves no purpose other than retaining the cooling system in the event of a collision.
- ii. Any secondary driver cooling system must be mounted on the top of or directly adjacent to the ballast box.
- iii. All driver cooling system components must be securely mounted.
- iv. The use of hook and loop fasteners (Velcro) is prohibited.

- c. **Entrants are permitted to install Driver Ventilation Ducts**

- i. A NACA duct are permitted to be installed on the side window, rear quarter window, OR the rear window for the purpose of cooling the driver
- ii. Maximum of 1 per side with 2 ducts permitted per car
- iii. Maximum cutout area of 26 cm x 16 cm
- iv. No duct shall break the outward plane of the surface on which it is installed
- v. Ducts must be translucent
- vi. Duct and/or hoses must not impede cockpit exit or driver's visibility

7.6.7. Door Opening Assistance System

- a. **Entrants are permitted to install a door opening assistance system (e.g. gas strut) for Car Models with anhedral doors.**

- i. Modifications must be approved by the Manufacturer of the Car Model and IMSA.
- ii. Door(s) must not self-open once unlatched.
- iii. Original range of door articulation must remain unchanged.
- iv. The driver, while seated and with safety belts/nets in place, must be able to close the door from the fully open position.
- v. Homologated components must remain unmodified.

7.7. Bodywork

7.7.1. **General**

- a. **The following films are permitted to be added to the front windscreen:**

- i. Tear-off
- ii. Anti-fog

7.7.2. Bodywork Seams

- a. **Entrants are permitted to apply tape or vinyl around refueling receptacle seams and/or rear wing end fence adjustment holes.**

7.7.3. Decals

- a. **Entrants are permitted to apply removable die cut sponsorship decals with the approval of IMSA.**
- b. Windows must remain free of decals and/or tint unless required by IMSA

7.8. Aerodynamic Elements

- 7.8.1. General
- 7.8.2. Splitter
- 7.8.3. Dive Planes
- 7.8.4. Body Gurney
- 7.8.5. Wings
- 7.8.6. Rear Wing Gurney
- 7.8.7. Floor
- 7.8.8. Friction Blocks
- 7.8.9. Diffuser

7.9. Engine System

- 7.9.1. General
 - a. Manufacturer seals must be respected
- 7.9.2. Engine
- 7.9.3. Oiling System
 - a. Approved lubricants are permitted to be utilized.
- 7.9.4. Lambda
- 7.9.5. Engine RPM
 - a. The maximum engine RPM limits for all Car Models are defined via Balance of Performance Tables and associated Technical Bulletins.
 - b. The RPM limit is considered exceeded when either of these conditions occur:
 - i. Engine RPM exceeds RPM limit for >250 ms, and throttle >60% of the maximum
 - ii. Engine RPM >1.0% over RPM limit for more than 100 ms, and throttle >60% of the maximum, i.e. an 8000 RPM limit means >8080 RPM for >100 ms.
- 7.9.6. Intake
 - a. The assigned inlet air restrictor diameter(s) for all Car Models is defined via Balance of Performance Tables and associated Technical Bulletins.
 - i. All air entering the engine must pass through the restrictor.
 - b. **Manufacturers are permitted to declare an alternative air filter via the Technical Eligibility Form**
 - i. Declared filter must be approved by IMSA in writing at least seven (7) days before first use
 - ii. Entrants must use the manufacturer declared air filter
- 7.9.7. Exhaust
- 7.9.8. Turbo
- 7.9.9. Engine Control Unit (ECU)
- 7.9.10. Engine Transportation Crate
 - a. Entrant must have immediately available a crate sufficient to securely and safely package and ship an engine.

7.10. Power Management

- 7.10.1. Maximum Boost Pressure
 - a. The maximum boost pressure for applicable Car Models is defined via Balance of Performance Tables and associated Technical Bulletins.
- 7.10.2. Boost Pressure Ratio

7.10.3. Boost Control Strategy Inputs

7.10.4. Calculation Method

- a. Allowable events beyond the maximum boost pressure are calculated as:
 - i. Up to 7% over the maximum boost pressure, not to exceed 7% of the time duration for that lap.
 - ii. Total time over the 7% maximum boost pressure must not exceed 3% of the time for that lap.
 - iii. No single event beyond the maximum boost pressure may exceed two (2) seconds in duration.
 - iv. No single spike can exceed 125% of the maximum boost pressure.
- b. Altitude compensation formula:
 - i. The following shall be predetermined by IMSA and published via Balance of Performance Technical Bulletin prior to an Event:
 - IMSA Season reference pressure due to altitude using the International Standard Atmosphere (ISA) model at Daytona International Speedway.
 - ISA Pressure at circuit altitude calculated using the International Standard Atmosphere(ISA) model and no change in temperature.
 - ii. The Event Altitude Compensation Factor will be calculated using the following formula:

$$\text{Event Altitude Compensation Factor} = \left(1 - \frac{(\text{IMSA season reference pressure} - \text{ISA Pressure at circuit altitude})}{\text{IMSA season reference pressure}} \right)$$
- c. Car Model's power levels shall be adjusted to compensate for the effects of local altitude as follows:
 - i. Altitude compensation method for naturally aspirated Car Models:
 - Alternative power steps (e.g. restrictors) are selected to achieve the closest power to that targeted by the Balance of Performance.
 - ii. Altitude compensation method for turbocharged Car Models with discrete maps (e.g. power sticks):
 - Alternative power steps are selected to achieve the closest power to that targeted by the Balance of Performance.
 - iii. Altitude compensation method for turbocharged Car Models with adaptable ambient pressure:
 - ECU reference pressure will be published via Balance of Performance Technical Bulletin prior to an Event to achieve the target power.
 - $\text{Event Boost} = (\text{Base Limit}) * \left(1 - \frac{(\text{IMSA Datasheet Reference Pressure} - \text{ECU Reference Pressure})}{\text{IMSA Datasheet Reference Pressure}} \right)$
- d. Where the altitude compensated power results in a power level different to the power targeted by the Balance of Performance:
 - i. Laptime will be corrected by adding or removing mass to the base weight of the Car Model (using IMSA track specific GS Class average laptime sensitivities for mass and power).
 - ii. Fuel capacity will be linearly corrected pro rata to match the difference in power.
 - iii. The Event specific mass and capacity adjustments are defined in the applicable Balance of Performance Technical Bulletin.
- e. If any adjustment causes a Car Model(s) to exceed the available power range, alternative measures may be used.

7.11. Drive System

7.11.1. General

7.11.2. Fluids & Lubricants

a. Unrestricted.

7.11.3. Clutch

7.11.4. Gearbox

7.11.5. Gears

7.11.6. Gearbox Control Unit

7.11.7. Differential

7.11.8. Axles

7.11.9. Uprights

7.12. Cooling System

7.12.1. General

7.12.2. Fluids

a. **Entrants are permitted to utilize the following approved cooling fluids:**

- i. Water
- ii. Air
- iii. Non-glycol based fluids

7.12.3. Inlet Blockers

- a. **Entrants are permitted to install opaque blockers between the rear face of the inlet grille and the front of the heat exchanger.**
- b. Homologated components must remain unmodified.
- c. Panels made from carbon fiber and/or aluminum with associated fastener hardware.

7.12.4. Water System

7.12.5. Oil Cooling System

7.13. Fuel System

7.13.1. General

- i. Maximum Capacity as defined in IMPC Technical Bulletins does not apply.

7.13.2. Fuel Types

- a. The approved fuel for the Class is IMSA E10, as supplied by VP Fuels.
- i. IMSA may require a fuel sample for inspection via a gas chromatograph.

7.13.3. Fuel Cell

7.13.4. Fuel Lines

7.13.5. Fuel Sample Port

7.13.6. Refueling Receptacle

7.14. Brake System

7.14.1. General

7.14.2. Fluids & Lubricants

a. **Unrestricted.**

7.14.3. Bias Assembly

7.14.4. Master Cylinders

7.14.5. Brake Lines

7.14.6. Calipers

7.14.7. Rotors

7.14.8. Pads

- a. **Friction material is unrestricted.**
- b. Backing Plates must be ferrous.

7.14.9. Ducting

7.14.10. Brake Duct Inlet Blockers

- a. **Entrants permitted to utilize the following approved methods for the sole purpose of blocking off portions of the brake duct inlet openings:**
 - i. Opaque adhesive tape.

7.14.11. Anti-Lock Braking System

7.15. Steering System

- 7.15.1. General
- 7.15.2. Fluids & Lubricants
 - a. **Unrestricted.**

7.16. Suspension System

- 7.16.1. General
- 7.16.2. Geometry Elements
- 7.16.3. Springs
 - a. Homologated front and homologated rear spring sets are permitted to be used independently.
 - i. Front spring sets are permitted to be used on the front.
 - ii. Rear spring sets are permitted to be used on the rear.
 - b. Spring sets are defined as two (2) matching front springs or two (2) matching rear springs.
- 7.16.4. Dampers
- 7.16.5. Bump Rubbers and Packers
 - a. **Unrestricted.**
- 7.16.6. Anti-Roll Bar
- 7.16.7. Third Elements

7.17. Wheels & Tires

- 7.17.1. General
- 7.17.2. Wheels
- 7.17.3. Wheel Attachment
 - a. **Entrants are permitted to lengthen/modify wheel lugs to facilitate wheel changes:**
 - i. The lug type is unrestricted, i.e. bolt vs. stud.
 - ii. The lug/nut assembly must not protrude beyond the outer plane of the wheel.
- 7.17.4. Tires
 - a. The approved tire supplier for this Class is Michelin.
 - b. Tires must be used in accordance with SSR Attachment 3.

7.18. Electronics

- 7.18.1. General
- 7.18.2. Data Logger
 - a. **Entrants are permitted to install a data acquisition system.**
 - b. Data system must not interfere with the operation of the Series Scrutineering Logger or the As-Delivered Car.
 - c. IMSA must approve the installation of any data system.
 - d. IMSA reserves the right to download and/or view all logged data at any time.
- 7.18.3. Telemetry
 - a. Telemetry is prohibited.
- 7.18.4. Wiring Loom

- a. Data acquisition equipment must use a separate visible and traceable wiring loom
- 7.18.5. Sensors
 - a. **Entrants are permitted to install the following approved sensors/inputs:**
 - i. One longitudinal and one lateral G load sensor
 - ii. Front and/or rear brake pressures
 - iii. Wheel speed sensors (maximum 4)
 - iv. Steering input
 - v. Throttle position
 - vi. Water Temperature
 - vii. Oil Pressure
 - viii. Oil Temperature
 - ix. Gearbox Temperature
 - x. Differential (or Rear End) Temperature
 - xi. Fuel Pressure
 - xii. GPS
 - xiii. CAN Interface
 - xiv. Manifold Pressure / Vacuum (Mandatory on cars with Forced Induction)
- 7.18.6. Radio
 - a. **Entrants are permitted to install a single two-way voice radio with car-to-pit communication capability in compliance with the corresponding Series Sporting Regulations.**
- 7.18.7. Rear View Camera
 - a. **Where not homologated, Entrants are permitted to install a rear view camera system.**
 - b. Rear view camera system must:
 - i. Be freestanding without connection(s) to other system(s).
 - ii. Utilize wired connections (i.e. wireless transmission prohibited)
 - iii. Camera and related equipment must use a separate visible and traceable wiring loom.
 - c. Installation and type of rear view camera system must be officially approved in writing by IMSA a minimum of seven (7) days prior to unloading for an Event.
- 7.18.8. Tire Pressure Monitoring System (TPMS)
 - a. **Entrants may utilize TPMS**
 - b. TPMS must:
 - i. Be available from the respective Car Model OEM.
 - ii. Have the sole purpose of informing the Driver of the individual pressure(s).
 - iii. Be installed without modification to any homologated component(s).
 - c. Telemetry (beyond normal sensor transmission) is prohibited.
- 7.18.9. Auxiliary Power Sources

ARTICLE 8. SERIES REQUIRED ELECTRONICS

8.1. General

- 8.1.1. All Series required electronics must be installed per the applicable Homologation and/or Declaration.
- 8.1.2. Entrant is responsible for the operation, maintenance, and care of Series required electronics.

8.2. Series Scrutineering Data

- 8.2.1. Cars must utilize the XAP NTX Marshalling Display System as the Series Scrutineering Logger
 - i. System must be operational during on-track activity
 - ii. Installations must be as per the applicable Series Electronics Declaration
 - iii. Ordering information per Article 8.3

- iv. IMSA mandated CAN template must be respected.

8.2.2. Series Scrutineering Data System collection requirements:

- a. Entrants must copy onto the Series Scrutineering Data Stick the full file, for all laps, with all channels, as logged during the appropriate Session. Exports of data are not permitted unless approved by IMSA.
- b. Data must not be altered in any way.
- c. Submitted Data must include file from the XAP NTX Marshaling Display as well as Team logger.
 - i. The “Acquis2” directory folder on the XAP NTX Marshaling Display storage device must be transferred by using the Cut function (i.e., removed from the device after transfer). Copying is not permitted. The directory must be Cut to the Series Scrutineering Data Stick.
 - ii. The “Acquis2” directory folder shall be placed at the top level of the directory structure on the Series Scrutineering Data Stick. Creation of subfolders is not permitted.
- d. Entrants must present Series Scrutineering Data Stick, with the required data/files to the IMSA Technical Inspection trailer within forty (40) minutes of the completion of Practice 2 (including Practice 1 Data), Qualifying, and Race sessions.
 - i. For instances of less than 60 minutes from the end of a Session and the start of the next Session, Entrant must return both Session’s data collection media within forty (40) minutes of the completion of the second session.
- e. For a Car’s data while in Impound, Team and Manufacturer representative must provide the following on the Series Scrutineering Data Stick:
 - i. Team Logger and ECU Logger data must be placed into separate folders.
 - ii. Both folders must be placed under the Team’s Race data folder.
 - iii. Manufacturer must provide ECU data to IMSA with all security information (i.e. password protection) to access.

8.3. Marshaling Display System

- 8.3.1. Cars must be equipped with the XAP NTX Marshaling Display System purchased from the approved supplier.

- a. XAP NTX Marshaling Display

XAP NTX Marshaling Display	Creative Motorsports Solutions
Delphi Antenna Kit	
Delphi Safety Light Receiver	
Cockpit/CAN Harness Interface	
Logger Unlock	

- 8.3.2. The Marshaling Display System must be installed and functioning during on-track activity.

- a. The Marshaling Display System must be installed per the applicable IMSA Technical Eligibility Form.
- b. Antenna Installation must be per the applicable IMSA Technical Eligibility Form
- c. Wiring Loom Installation: The Wiring Loom has a flying lead input for +12 VDC and Ground to interface with additional wiring referenced in the installation instructions.
 - i. Entrants must supply additional wiring as required.

8.4. Driver ID System

- 8.4.1. Cars must be equipped with an approved Driver ID system.

- a. XAP NTX Marshaling Display
 - i. Available for purchase from Creative Motorsports Solutions

- 8.4.2. Minimum loom/harness ordering window is 8 weeks. Expedited fees may apply if the ordering window is not respected

- 8.4.3. Entrant must supply Driver ID Plugs

- 8.4.4. Female Driver ID plug(s), (i.e. Driver #1 through Driver #5) may be installed inside the Car cockpit or attached to the individual Drivers’ helmets.

- a. Alternative installations must be approved by IMSA.

8.4.5. Transponder and plugs must operate to the satisfaction of the Timing and Scoring Officials.

8.5. X2 Transponder System

8.5.1. Installation of the X2 system must be in accordance with the IMSA Technical Eligibility Form.

a. IMSA Technical Eligibility Form is available from the respective Manufacturer Partner.

8.5.2. Cars must be equipped with the X2 Transponder System Kit

a. Kit contains the following components:

- i. X2 Transponder
- ii. Isolation Mounts

b. Entrant must supply the following additional item(s):

- i. X2 Transponder Mounting Bracket (available for purchase as listed in the IMSA Accessories Order Form).
- ii. M4 Socket Head Cap Screw and Washer.

c. The floor cutout for the X2 Transponder shall have a minimum opening of 146 mm × 75 mm.

8.5.3. X2 transponder must be purchased via [Creative Motorsport Solutions](#).

8.5.4. Transponder must operate to the satisfaction of the Timing and Scoring Officials.

8.5.5. Transponder consumes less than 300 mA (10-15 VDC), and must:

- i. Be a fused, 12-volt DC configuration
- ii. Meet the specifications defined by ISO 7637

8.6. Leader Light System

8.6.1. Cars must be equipped with LED leader light system as follows.

a. XAP

- i. XAP Leader Light System # LPP-130
- ii. XAP Harness
- iii. Available from CMS (<https://www.gomuchfaster.com/products/imsa-xap-led-position-panel>)

8.6.2. Leader light system must be installed and functioning during the Event

- a. System must be installed in accordance with the IMSA Technical Eligibility Form.
- b. IMSA Technical Eligibility Form is available from the respective Manufacturer Partner.

8.6.3. Leader Lights consume less than 4.5 A (10-15 VDC), and must:

- i. Be a fused, 12-volt DC configuration
- ii. Meet the specifications defined by ISO 7637

8.7. Back-lit Panel

Not Applicable

8.8. Pro-Am Light

Not Applicable

8.9. In-Car Camera

Not Applicable

8.10. Incident Data Recorder

8.10.1. Entrants must utilize the FIA Impact Data Recorder (IDR)

- a. Must be installed in the Manufacturer defined location per the IMSA Technical Eligibility Form and consistent with Manufacturer orientation requirements.
- b. IDR must be installed and functional for all on-track activity.
- c. IMSA provides the IDR to the Entrant.
- d. Data collected by the IDR is property of IMSA.

- e. IDR must be surrendered upon request by IMSA.

ARTICLE 9. FUELING SYSTEM

9.1. Scrutineering Fuel Collection

9.1.1. Fuel Collection Vessel must:

- a. Be non-opaque.
- b. Be free of any carriage or trolley system.
- c. Have a flat bottom.
- d. Rest without assistance on the IMSA scale for weight measurement before and after defueling the Car.

9.1.2. Fuel Pump Out Hoses

- a. Entrant must utilize 2 separate hoses for defueling activities:
 - i. Fuel drain
 - ii. Vent return
- b. Both hoses must connect the Car to the collection vessel.
- c. Must utilize dry-break connections to the Car and fixed (sealed) connections to the fuel collection vessel.
- d. Fuel drain hose must have a clear section of no less than 250 mm near the collection vessel.