



2026 TECHNICAL REGULATIONS

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Series:

IMSA VP RACING SPORTSCAR CHALLENGE

Classes:

GRAND TOURING DAYTONA X

Sanctioned by:

**INTERNATIONAL
MOTOR SPORTS
ASSOCIATION**

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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 through 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
GTDX	FIA

EXECUTIVE LEADERSHIP MASTHEAD

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Business Development**

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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 catalogue 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.
- 2.5.7. Homologated "endurance" extensions are permitted to be utilized in IMSA Events.

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.
- 3.1.2. Manufacturers are responsible for all costs as related to submission of reference components.
- 3.1.3. 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. Fuel Delivery Testing
 - f. Fuel Consumption Testing
- 3.2.2. Testing and associated costs are the responsibility of the applicable Manufacturer or Constructor.

ARTICLE 4. BALANCE OF PERFORMANCE / SUCCESS COMPENSATION

4.1. Balance of Performance

- 4.1.1. IMSA shall publish an annual set of values for the Balance of Performance for eligible Car Models.
- 4.1.2. IMSA, in its sole discretion, may alter the Balance of Performance values.
- 4.1.3. Technical Bulletins are an extension of these Regulations and part of the Rules.
- 4.1.4. Providing false or intentionally misleading information is a breach of these Technical Regulations.

4.2. Success Compensation

- 4.2.1. IMSA may, at its discretion, utilize an adjustment method to apply Success Compensation to Cars.
 - a. Details of the Success Compensation Process are described in Attachment 2 of the applicable Sporting Regulations.

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 8853-2016: Safety Harnesses
 - i. [FIA Technical List #57](#): Harnesses Homologated according to the FIA Standard 8853-2016
- 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 Homologated 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. It is prohibited to mix belt components between manufacturers or certifications.

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
- 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.
- 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. As Homologated
- 5.6.2. 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.

- b. The interior fire activation switch, located in cockpit, must be marked with an appropriately sized decal of a red “E” inside a white circle.
- 5.6.3. 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. Grand Touring Daytona X (GTDX)

- 6.1.1. Class Structure: Grand Touring Daytona X Cars compete in the GTDX Class of the IMSA VP Racing Sportscar 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:

Homologation Authority:	Federation Internationale de l'Automobile (FIA)
Homologation Specification:	FIA Group GT3 (GT3)
Homologation Regulations:	FIA 2025 Technical Regulations for Grand Touring Cars (Group GT3)
Homologation Specification:	FIA Group GT3 (GT3)

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 appropriate 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.

7.3. 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

- a. The flat floor reference surface of the Car is measured to the plane of the Technical Inspection surface plate.

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 Homologated BoP ballast location 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. The Homologated ballast box is permitted to be removed when no ballast is present.

7.4.5. Ground Clearance

- a. The minimum ground clearance for all Car Models is defined via BoP Tables and associated Technical Bulletins.
- b. Ground clearance is measured across the complete underside of Car Model during Technical Inspection.

7.4.6. Overall Dimensions

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.

7.6. Driver Interface

7.6.1. General

- a. **Entrants are permitted to install a driver hydration system.**
 - i. Installations must be approved by IMSA.
 - ii. System must not serve any additional purpose.

7.6.2. Steering Wheel

- a. **Entrants are permitted to add, and/or modify the shape of, steering wheel grips.**

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. Driver cooling systems must use non-flammable refrigerant (e.g. R134a, water).

- 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 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. Driver Ventilation Ducts

7.7. Bodywork

7.7.1. General

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

- i. Tear-offs
- 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.

- b. Roof access panel seams and fasteners must remain free of obstruction

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

7.7.4. Headlights

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. Floor

7.8.7. Friction Blocks

7.8.8. Diffuser

7.9. Engine System

7.9.1. General

- a. IMSA and/or 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

- a. The lambda value for all Car Models is defined in the applicable Homologation and distributed by means of Balance of Performance Tables and associated Technical Bulletins.
- b. The lambda value must be respected when participating in on-track activity.

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 more than 250 ms, and actual pedal position is greater than 60% of the maximum
 - ii. Engine RPM is more than 1.0% over RPM limit for more than 100 ms, and actual pedal position is greater than 60% of the maximum, i.e. an 8000 RPM limit is exceeded when RPM is greater than 8080 for more than 100 ms while actual pedal position is greater than 60%.

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.
 - ii. Restrictors must be the current FIA approved design.
 - iii. Restrictor designs must be submitted by the Manufacturer and included in the applicable Car Model's IMSA Technical Credential.
- b. Intake air restrictors may be sealed by IMSA Technical Officials during Pre-Event Technical Inspection.
 - i. Entrants must receive approval from IMSA to remove seals following inspection, and seals must be replaced by IMSA Technical Officials prior to on-track activity.
- c. **Manufacturers are permitted to declare an air filter when not Homologated**
 - 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

- a. Catalyst configuration utilized during official IMSA dyno testing must be used during all on-track activity.

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. Boost Management

7.10.1. Maximum Boost Pressure

7.10.2. Boost Pressure Ratio

- a. The table of maximum boost pressure ratio versus engine RPM for applicable Car Models is defined via Balance of Performance Tables and associated Technical Bulletins:
 - i. All values between the tabulated set points defined via the table are interpolated linearly.

7.10.3. Boost Control Strategy Inputs

Parameter	Description	TB*
Maximum Boost Pressure Ratio (Max Pboost Ratio)	Curve of Maximum Boost Pressure Ratio as a function of Engine RPM	TB
Actual Boost Pressure (Pboost)	Intake manifold pressure measured in accordance with these Technical Regulations In case of two separate intake manifolds, the average of the two manifold pressure sensors will be referenced	
Filtered Boost Pressure (Pboost Filtered)	Exponentially weighted moving average of Actual Boost Pressure. Defined as: $(P_{boost\ Filtered})_n = (P_{boost})_n * (C_{e_{Fit}}) + (P_{boost\ Filtered})_{n-1} * (1 - C_{e_{Fit}})$	
Filter Coefficient ($C_{e_{Fit}}$)	Coefficient that defines weighting for Filtered Boost Pressure	
Barometric Pressure Reference	Absolute barometric pressure reference will be defined per Event by IMSA	TB
Actual RPM	Unfiltered RPM value measured in accordance with these Technical Regulations	
Actual Throttle	Engine throttle position measured in accordance with these Technical Regulations In case of two engine throttles, the maximum value of the two throttle positions is referenced	
RPM Threshold	An RPM threshold which is used as a condition	
Resultant Boost	$(P_{boost\ Filtered}) - (\text{Barometric Pressure Reference}) * (\text{Max Pboost Ratio})$	
Integral	Area under the Resultant Boost as a function of time curve in units of pressure-time	
Integral Time Step	Time step of the Integral	
Integral Decay	A value in units of pressure-time subtracted from the Integral when the integral is positive	
Low Overboost Level	A lower overboost limit in units of pressure time	
Lower Overboost Counter	A counter which is incremented when the Low Overboost Level is met or exceeded Low Overboost Counter limits must never be exceeded	
Low Overboost Counter Reset Condition	A time-based condition that will reset the Low Overboost Counter	
High Overboost Level	A maximum overboost limit in units of pressure-time that can never be met or exceeded	

* All parameters indicated with TB are defined via Technical Bulletin.

Session Classification	RPM Threshold	Throttle Threshold	Integral Time Step	Integral Decay	Filter Coefficient	Low Overboost Level	High Overboost Level	Low Overboost Counter Limit	Low Overboost Counter Reset Conditions
	[RPM]	[%]	[s]	[mb*s]		[mb*s]	[mb*s]		
Qualifying	2000	25	0.001	5	0.1718	30	100	1	Crossing Start/Finish Timing Loop, Crossing Pit-In Timing Loop, Crossing Pit-Out Timing Loop
All Other Sessions	2000	25	0.001	5	0.1718	30	100	5	Crossing Pit-In Timing Loop, Crossing Pit-Out Timing Loop

7.10.4. Calculation Method

- a. Resultant Boost is integrated over time at each time step at a rate equal to Integral Time Step when:
 - i. $[(\text{Actual RPM}) \geq (\text{RPM Threshold})] \text{ AND } [(\text{Actual Throttle}) \geq (\text{Throttle Threshold})] \text{ AND } [(\text{Resultant Boost}) > 0]$
 - ii. The current Integral value is added to the initial Integral value
- b. The Integral Decay is subtracted from the Integral when Resultant Boost < 0
 - i. This value is always positive
 - ii. $(\text{Integral}) - (\text{Integral Decay}) \geq 0$
- c. A Low Overboost Counter is incremented if:
 - i. $(\text{Integral}) \geq (\text{Low Overboost Level})$
- d. It is a violation of the boost regulations if either:
 - i. The Low Overboost Counter Limit is exceeded
 - ii. $(\text{Integral}) \geq (\text{High Overboost Level})$

- e. The Integral is reset to zero (0) if:
 - i. [(Actual RPM) <= (RPM Threshold)] OR [(Actual Throttle) <= (Throttle Threshold)]
 - f. The Integral value is held in memory as an initial condition for the next time step.
- 7.10.5. Low Overboost Counter Usage Limitation
- a. Automated or driver-initiated control strategies used for competitive advantage that result in Low Overboost counters are not permitted.
 - i. Examples include push-to-pass and overtake buttons.

7.11. Drive System

- 7.11.1. General
 - a. Manufacturer seals must be respected
- 7.11.2. Fluids & Lubricants
 - a. **Unrestricted.**
- 7.11.3. Clutch
- 7.11.4. Gearbox
- 7.11.5. Gears
 - a. A gear set consists of the following ratios, and must always be used in its entirety:
 - i. 6 forward ratios
 - ii. 1 reverse ratio
 - iii. 1 final drive ratio
 - iv. 1 drop gear (if applicable)
 - b. **In addition to the FIA Homologated gear set, Manufacturers of new homologations accepted by IMSA may declare two (2) additional gear sets via the Gearing Declaration by sixty (60) days prior to participation in the first Event:**
 - i. Daytona Gear Set
 - ii. Short/Street Circuit Gear Set
 - c. Declared Daytona Gear Set must be used for Daytona Events.
 - d. FIA Homologated Gear Set must be used for Sebring Events.
 - e. Either the FIA Homologated or Short/Street Circuit Gear set must be used for remaining Events.
 - f. Gear Sets must be used in their entirety (i.e. mixing of ratios between sets is prohibited)
- 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 utilize the following approved methods for the sole purpose of blocking off portions of the cooling system inlet openings:**
 - i. Opaque adhesive tape.
 - ii. 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

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

- a. **Entrants are permitted to use blocks or balls to achieve desired fuel cell capacity:**

7.13.4. Fuel Lines

7.13.5. Fuel Sample Port

- a. **Entrants must equip the Car with the approved self-sealing connector for extraction of fuel samples:**
 - i. Approved Connector: Staubli P/N: CBI06.7251/IA/JKV.
 - ii. Must be located immediately before the injector nozzles.
 - iii. Installation must be approved by IMSA.

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 are 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.
 - ii. Panels made from carbon fiber and/or aluminum with associated fastener hardware.
- b. Must be fixed.

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. **Entrants are permitted to change primary spring rates:**
 - i. The As-delivered number of springs per wheel must be respected.
 - b. **Entrants are permitted to install thrust bearings between the spring and perch.**
 - i. Maximum of two (2) per spring.
- 7.16.4. Dampers
 - a. **Entrants are permitted to change the damper internal build:**
 - i. Inerter technology is prohibited.
- 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
- 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 where not included in the As-delivered Car.**
 - b. 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
- 7.18.5. Sensors
 - a. As Homologated
 - b. Per the applicable Car Model Homologation, "Restricted" sensors are not permitted
 - c. Car Model(s) Homologated prior to January 1, 2022 must respect the manufacturer-submitted, IMSA approved sensor declaration.

- 7.18.6. Radio
 - a. **Entrants are permitted to install one (1) two-way voice communication radio with car-to-pit communication capability:**
 - i. Radio must comply with Series Sporting Regulations.
- 7.18.7. Rear View Camera
 - a. **Where not homologated, Entrants may install a rear-view camera system.**
- 7.18.8. Auxiliary Power Sources
- 7.18.9. Rain Light
 - a. One (1) rain light in compliance with FIA Standard 8874-2019 is mandatory
 - i. Must be installed at the back of the car and in working order throughout the Event.
 - b. When in use, the Homologated Rain Light must be set to the following specifications:
 - i. 4 Hz
 - ii. 50% duty cycle

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 System

- 8.2.1. Cars must be equipped with the IMSA Scrutineering Data System at all Events.
 - a. The manual for the Scrutineering Data System for the Class is the Bosch Scrutineering Systems Manual (BSSM).
 - i. Entrant must use the most current version of the BSSM as posted to the [IMSA Competitor site](#).
 - ii. Entrant must use all sensors, parts, and equipment as specified in the BSSM.
 - b. Scrutineering system components must be purchased from, or supplied by, the approved sources listed in the BSSM.
 - c. The scrutineering system and all its components are standalone and intended for IMSA use.
 - d. Entrants must install, utilize, and maintain other sensor(s) as required by IMSA.
- 8.2.2. All components of the Scrutineering System, and other sensors as required by IMSA, must remain powered and functional during on-track sessions and pit stops.
- 8.2.3. Entrants must complete [IMSA Scrutineering Sensor Declaration Form](#) no later than 5 Days before load-in day of every Event.
- 8.2.4. Scrutineering system components and sensors must be installed per the IMSA approved Car Model's Scrutineering Homologation document.
 - a. VMPS unit must be:
 - i. Aligned within 1 degree of centerline of Car.
 - ii. Aligned within 0.5 degrees of horizontal.
 - b. All other antennas, or other components, on the Car must be installed at least 240 mm from the edge of the IMSA VMPS antenna.
 - c. Wiring loom must be:
 - i. Consistent with IMSA approved Car Models Scrutineering Homologation document
 - ii. Provided by the Entrant.
 - iii. Independent of any other system.
 - iv. Removable.

- v. Verified and serialized before Entrant participates in their first event of each season, per the Loom Certification outlined in the BSSM.
 - vi. Certifications are only valid for the season they are issued.
 - vii. Available for additional testing when requested by IMSA
- 8.2.5. CAN channels must be configured per the applicable DBC file posted in the regulation section of competitors.imsa.com.
- a. Entrants must provide CAN channels from the ECU, chassis logger, or equivalent device per the CAN specification detailed in the applicable DBC.
 - b. CAN communication to the IMSA Scrutineering Logger must be transmitted directly from the device of origin, and not repeated through a 3rd party device, unless explicitly permitted by IMSA consistent with the IMSA approved Car Model's Scrutineering Homologation document.
 - i. Example: Engine RPM must be transmitted directly from the ECU to the IMSA Scrutineering Logger, and not through the chassis logger.
 - c. Scrutineering sensors take precedence over CAN provided values from the ECU or chassis logger.
 - d. Scrutineering sensor outputs are provided to the Entrant over a Public CAN bus.
 - e. A [Public CAN Declaration Form](#) must be submitted and approved by IMSA for any public CAN bus usage beyond Series Scrutineering Sensors and messages.
- 8.2.6. Series Scrutineering Data System inspection and data collection requirements are:
- a. Entrants must present all series mandated data collection media to the IMSA Technical Inspection trailer within thirty (30) minutes of the completion of each session.
 - 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 thirty (30) minutes of the completion of the second Session.
 - b. Series Scrutineering Data Logger must be installed and tested prior to Technical Inspection.
 - i. Entrant may be required to install USB Stick during inspection process at the direction of series officials.
 - c. Any repair to the looms must be approved by Bosch Motorsport and re-certification through Bosch Motorsport may be required.
- 8.2.7. Scrutineering system primary component units must have an IMSA Scrutineering Seal.
- a. Each device ordered through Bosch Motorsport NA using the order form found in the Scrutineering System Manual will be delivered with the seal in place.

8.3. Marshalling Display System

- 8.3.1. Cars must be equipped with an approved Marshalling Display to indicate active flag status, purchased from the approved supplier.
- a. XAP NTX Marshalling Display

XAP NTX Marshalling Display	Creative Motorsports Solutions
MSE Antenna Kit	
MSE Safety Light Receiver	

- 8.3.2. The Marshalling Display system must be installed and functioning during on-track activity.
- a. The supplied antenna must be mounted per the applicable IMSA approved Car Model's Scrutineering Homologation document.

8.4. Driver ID System

- 8.4.1. Cars must be equipped with a Driver ID system to identify the active Driver piloting the Car.
- 8.4.2. Driver ID plugs must be installed and connected per the BSSM.
- 8.4.3. Transponder and plugs must operate to the satisfaction of the Timing and Scoring Officials.

8.5. X2 Transponder System

- 8.5.1. Cars must be equipped with the X2 Transponder System Kit (Qty 1) to transmit scrutineering data from the car.
 - a. X2 Transponder Kit contains the following component(s):
 - i. 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.
- 8.5.2. X2 transponder must be purchased via [Creative Motorsport Solutions](#).
- 8.5.3. Transponder system must be installed, as per IMSA approved Car Model's Scrutineering Homologation documentation, and functioning during Events.
 - a. Must be installed with appropriate thermal protection where the temperature cannot exceed 50 °C

8.6. Leader Light System

- 8.6.1. Cars must be equipped with approved LED leader light system as follows:
 - a. XAP Leader Light System from Creative Motorsports Solutions (<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. Leader lights must be installed and connected to the Scrutineering System Loom per the Car Model's Scrutineering Homologation document.

8.7. Back-lit Panel

8.8. Pro-Am Light

8.9. In-Car Camera

8.10. Tire Pressure Monitoring System

8.11. Accident Data Recorder

- 8.11.1. Entrants must utilize the MoTeC ADR2 Accident Data Recorder
 - a. Must have IMSA certification sticker.
 - b. Must be installed per the Car Model's Scrutineering Electronics Homologation and consistent with FIA GT3 Homologation.
 - c. ADR2 must be installed and functional for all on-track activity.
 - d. Data collected by the ADR2 is property of IMSA.
 - e. ADR2 must be surrendered upon request by IMSA.
 - f. ADR2 must be purchased as follows:

Accident Data Recorder	MoTeC USA
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ARTICLE 9. SCRUTINEERING FUEL COLLECTION

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. Fuel drain hose must utilize a dry-break connection to the Car and fixed (sealed) connection to the fuel collection vessel.
- d. Fuel vent return hose is permitted to utilize a temporary or dry-break connection to the Car and must use a fixed (sealed) connection to the fuel collection vessel.
- e. Fuel drain hose must have a clear section of no less than 250 mm near the collection vessel.