

One Daytona Blvd.  
Daytona Beach, FL 32114  
P: +1 (386) 310-6500

## IMSA TECHNICAL BULLETIN IWSC #19-01

To: All IMSA WeatherTech Sportscar Championship DPi Participants  
From: IMSA Competition  
Date: 2 November 2018  
Re: IWSC DPi 2019 Technical Regulations

---

IMSA has published the Technical Regulations for the IMSA WeatherTech Sportscar Championship as of today's date in Blackline and Redline forms for the DPi Class.

All cars will be held to these Technical Regulations for IMSA events.

After this date, changes to the IMSA WeatherTech Sportscar Championship Technical Regulations are issued via Technical Bulletin and an updated edition of the affected Technical Regulation(s) published, with an additional document showing the changes in red. The Blackline version is the official Regulations.

[2019 IWSC Technical Regulations DPi 11/02/18](#)

[2019 IWSC Technical Regulations DPi REDLINE 11/02/18](#)

For 2019 the DPi class has unique Technical Regulations. Notable changes from the 2018 Prototype Regulations (previously combined DPi and LMP2) are as follows.

### 2.2. Balance of Performance Adjustment

2.2.1. To maintain competitive equivalency between Cars within the Class, and between Classes, IMSA uses the Balance of Performance process **as outlined in Article 6** to mandate adjustments to the Specification.

- a. Performance is evaluated using observed performance data; including, but not limited to, the IMSA Scrutineering data logger and official Timing and Scoring.

### 6.3. Adjustment Parameters

6.3.1. The following adjustments may apply:

- a. Minimum mass
- b. Engine restrictor and/or boost ratio change
- c. Maximum fuel cell capacity
- d. ~~Assigned refueling restrictor diameter~~
- e. Aerodynamic elements and/or settings
- f. Other parameters as designated by IMSA

### 7.7. Fire Suppression

7.7.2. Extinguishing media must be compatible with all aspects and accessories of the fire suppression system.

- a. ~~Compliance with FIA 8865-2016 is mandatory.~~

## 9.1. General (Vehicle Systems)

9.1.1. All Vehicle Systems and associated sub-systems are listed in this Article.

- a. Where change to the ~~se Homologated~~ Vehicle Systems is permitted, regulatory text is **bold and underlined**.
- b. Where change to the ~~se Homologated~~ Vehicle Systems is prohibited, regulatory text is light grey.
- c. Advisory statements are in normal text.

## 9.4. Dimensions

9.4.1. General

- a. ~~IMSA's measurement instruments are the official measurement instruments.~~

9.4.4. Ballast

- a. **Entrants may add or remove ballast to achieve minimum mass:**
  - i. Ballast must be ~~located~~ per the Constructor's Base Homologation.

## 9.5. Driver Interface

9.5.1. Driver Adjustable Components

- a. ~~Driver adjustable anti-roll bars are permitted.~~

## 9.9. Engine System

9.9.1. General

- a. ~~Manufacturer seals must be respected~~

## 9.11. Drive System

9.11.1. General

- a. ~~Manufacturer seals must be respected~~

## 9.13. Fuel System

9.13.1. General

- a. ~~Maximum Capacity~~
  - i. ~~The maximum fuel capacity for all Car Models is defined via Balance of Performance Tables and associated Technical Bulletins.~~
  - ii. ~~The maximum fuel capacity is the total volume of fuel contained in the Car.~~

9.13.3. Fuel Cell

- a. ~~Maximum Capacity~~
  - i. ~~The fuel cell maximum capacity for all Car Models is defined via Balance of Performance Tables and associated Technical Bulletins.~~

## 9.16. Suspension System

### 9.16.6. Anti-Roll Bar

- ~~a. Each Constructor must declare a common anti-roll bar cockpit adjustment mechanism available to Entrants as part of the Technical Eligibility Form.~~
  - ~~i. Anti-roll bar cockpit adjustment mechanism must connect to the suspension by a solid link.~~
- ~~b. Entrants may install either the approved anti-roll bar cockpit adjustment mechanism or install the anti-roll bar system as homologated.~~

## 9.17. Wheels & Tires

### 9.17.1. Tires

- a. The approved tire supplier for this Class is Michelin

## 10.4. X2 Transponder System

10.4.1. Cars must be equipped with the X2 Transponder System Kit (Qty 2) to transmit scrutineering data from the car ~~and serve as a backup to the primary Driver ID Transponder.~~

- a. X2 Transponder Kit contains the following component(s):
  - i. Transponder.
  - ii. Isolation Mounts.

10.4.2. X2 transponder ~~may be purchased via the IMSA Accessories Order Form. is provided by IMSA during Safety Checks at each Event, and:~~

- ~~a. Remains the property of IMSA~~
- ~~b. Entrants must surrender the transponder when required by IMSA~~
- ~~c. Entrants is responsible for replacing a lost or damaged X2 transponder, per the IMSA Accessories Order Form.~~

## 11.1. Fuel Transfer

11.1.2. Fuel transferred to the autonomous supply tank must be delivered by means of a hose fitted with a self-sealing connector (e.g. dry break, cam-lock) connected to the autonomous supply tank.

## 11.2. Pit Tank

11.2.3. Refueling tank height is measured from the top surface of the vessel, not including vent, cover, cover plate, or fasteners, at a distance of 1.25 meters from the outermost face of the pit wall.

- a. The required refueling tank height is ~~2.4~~ 2.0 meters with a tolerance of +0/-1.0 cm.
- b. Once inspected by an IMSA Official the Autonomous Supply Tank and Trolley may not be moved until the conclusion of the Race ~~or upon an approved retirement via TIMS.~~

### 11.3. Peripheral Connections

11.3.1. Tanks must be equipped with the IMSA-specified peripheral connections between the tank outlet and the refueling hose.

a. Parts must be purchased from RPXpress and used unmodified:

Part Number	Part	Description
BSR-FR FN40	Outlet Flange	Bottom Tank 12-bolt housing
ATL-TF 147	12-Bolt Gasket	
BSR.FR.R.36GOLD	36.0mm Restrictor	Upper Restrictor (for positive seal to Elbow)
BSR-FR 1981	Bottom 80 deg. Elbow	Female Camlock x 2" Male
BSR-FR R003	Deadman Valve	Stainless Deadman Valve
BSR.P.5K.RPX.SS	Adapter	Adapter 2" Male to 1 1/2" Camlock
BSR.P.5K56.SS	Restrictor Housing	Deadman Outlet, 2" Male to 1 1/2" Camlock

### 11.4. Refueling Hoses

11.4.1. Refueling/vent hoses must have one end equipped with a self-sealing connector to fit the autonomous supply tank outlet.

11.4.2. Refueling/vent hoses may be protected for the sole purpose of resisting abrasion damage.

- Cover must be easily removable by means of full-length Velcro or zipper.
- Cover must be non-reflective

11.4.3. Hose maximum inside diameter

- Dual-Port systems must be less than 1.5 inches for all hoses.
- Single-Port (coaxial) systems must be less than 1.5 inches for Refueling Hose and less than 75.0 mm for the vent hose

11.4.6. Cars employing an approved offside refueling system, must have a refueling vent hose with a minimum length of six (6) meters, connectors included.

### 11.5. Trolley Pit Tank Support Stand

11.5.1. The tank must be attached to one of the following:

- Through a tower, to a trolley meeting the following requirements:
  - Tower components must be assembled without any degree of freedom in relation to the trolley.

~~11.5.2. The base of the trolley must:~~

- Have a surface area greater than two (2) square meters.
  - ~~Be installed with~~ Utilize four (4) self-braking casters.
  - Be ballasted with a weight exceeding that of the tank when filled with fuel.
- Scissor style (X-brace) stand.

### 11.7. Refueling Restrictor

11.7.2. Refueling Restrictor must meet the following criteria:

- Material must be an aluminum alloy.
- Must ~~be in compliance~~ comply with the ~~restrictor part drawing~~ IMSA Fuel Restrictor Part Drawing at the end of these Technical Regulations.
- Restrictor size varies from 22.0 mm to 34.0 mm by discrete increments 0.25 mm
- Bore tolerance (+0.00 mm / -0.05 mm)

