IMSA TECHNICAL BULLETIN IWSC #23-21

To: All IMSA WeatherTech SportsCar Championship GTP, GTD PRO, and GTD Competitors
From: IMSA Competition
Date: January 26, 2023
Re: GTP, GTD PRO, and GTD VPMS System Mounting Update

Further to direction provided by Bosch Motorsport to the Rolex 24 GTP, GTD-PRO, and GTD Entrants on Wednesday January 25, 2023, updated mounting requirements of the VPMS system are detailed on the following pages.
VMPS Mounting Requirement Update

Bosch Motorsport North America
VMPS Mounting Requirement Update

VMPS Fault Root Cause

- In testing the VMPS module has experienced intermittent faults resulting in the loss of GPS position and speed data
- The faults have been traced to vibration and electrical interference
- Solution:
  - Electrical and mechanical isolation of VMPS module and antenna
VMPS Mounting Requirement Update

VMPS Installation

- Teams are requested to install a layer of heli tape to the underside of the VMPS module in order to electrically isolate it from the chassis.

- Yellow area indicates heli-tape application.

- Goal is to avoid any metal-to-metal contact between VMPS and chassis.
VMPS Mounting Requirement Update

VMPS Installation

- Teams are also requested to no longer hard-mount the VMPS module. Teams are requested to mount the module with an interlocking type fastening tape
  - Dual lock recommended for moderate vibration applications
  - Velcro recommended for high vibration applications (flat-plane V8’s, hard-mounted engines, etc)

- In applications that utilize a mounting plate that has studs, rubber isolators can be provided and installed as shown

- Goal is to provide mechanical isolation from vibrations

- Lord mount isolators are also acceptable
VMPS Mounting Requirement Update

Antenna Mounting

- Teams are requested to change out the all-metal bulkhead SMA connector for an isolated SMA connector.
- This fitting requires an o-ring to be installed between the roof line and the fitting face.
  - This o-ring seals the roof and provides the necessary spacing required for full antenna thread engagement.
- Antenna should be installed as pictured.
- It is acceptable for teams to use their own spacers as long as the SMA connector threads protrude by 4.9mm +/- 0.2mm.

Antenna stack up detail (spacer not shown)

Antenna stack up with spacer installed