Technical Bulletin

IMSA TECHNICAL BULLETIN IWSC #22-03

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To: All IMSA WeatherTech SportsCar Competitors

From: IMSA Competition

Date: January 12, 2022

Re: IMSA ROAR Before the 24 Balance of Performance Tables

In accordance with Attachment 2 of the IMSA WeatherTech SportsCar Championship SSR, the following Balance of Performance values are set for the indicated Car Models. The column listed as current is the current specification after any adjustment is applied and thus the required specification for the Event. These decisions come into immediate effect and are applicable until further notice.

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DPi	Vehicles		Mass		Engine								Aero	Fuel					Notes
	Manufacturer		Minimum No Fuel/Driver (kg)		Make	Volume (L)	Turbo/NA	Restrictor Diameter (mm)			Average Power Delta (kW)	Maximum RPM	Configuration	Type	Declared Lambda	Total Capacity (L)		Minimum Full Refueling Time (sec)	
			adj	current				qty.	adj	current	adj	current			λ	adj	current		
	Acura	ARX-05		930	Acura	3.5	Turbo					7050	See Table	E20	0.89		78.0	30.0	
	Cadillac	DPi-V.R		950	Cadillac	5.5	NA	2		32.2		7600	See Table	E20	0.90		70.0	30.0	

* Aero configuration is defined via the Aero Configuration table on the following pages.

Acura ARX-05

Engine Speed	Boost Ratio	
[rpm]	adj	current
2000		1.467
3200		1.467
3600		1.608
4000		1.725
4400		1.769
4800		1.769
5200		1.769
5600		1.787
6000		1.783
6200		1.773
6400		1.758
6600		1.758
6800		1.733
7050		1.701
7550		1.637
7650		1.000

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DPi AERODYNAMIC CONFIGURATIONS		FRONT AERODYNAMIC CONFIGURATIONS			REAR AERODYNAMIC CONFIGURATIONS								
		Optional front aerodynamic configurations are independent.			Optional rear aerodynamic configurations must be used as a complete package; mixing of parts/components is forbidden.								
		Dive Planes	Packers / Inserts	Other	Option	Tail Wicker		Rear Wing Assembly		Rear Wing Flap			Rear Wing Flap Wicker	
Manufacturer		Permitted Options	Permitted Configurations	Permitted Options		Type	Minimum Height	Type	Minimum Angle / Position	Type	Position	Minimum Angle	Span	Minimum Height
						mm	mm		degrees			degrees	mm	mm
Acura	ARX-05	**Per Technical Credential [IMSA]:** Lower Double	**Per Technical Credential [IMSA]:** As-Tested [IMSA]	**Per Technical Credential [IMSA]:** Acura Side Wicker	OPTION 1	Per Technical Credential [IMSA]	16.0	Per Technical Credential [IMSA]	11.2	Sprint As-Homologated [FIA]	N/A	30.1	Removed	
Cadillac	DPi-V.R	**Per Technical Credential [IMSA]:** 2019 HDF Lower 2020 HDF Lower Double	**Per Technical Credential [IMSA]:** Splitter Outboard Fill-in Packers Front Wheel Arch Packer + Lateral Wicker Must run STD Front Fender Insert at all times	**Per Technical Credential [IMSA]:** Must run high downforce Side Wicker Option Only at all times Must run Hood Opening at all times Must run a Front Fender Wicker of minimum height 10mm at all times Bib Extension	OPTION 1	Per Technical Credential [IMSA]	30.0	Sprint As-Homologated [FIA]	13.0	Sprint As-Homologated [FIA]	STD	20.4	1200	5.0

DPi

DPi AERODYNAMIC CONFIGURATIONS		REAR AERODYNAMIC CONFIGURATIONS										
		Optional rear aerodynamic configurations must be used as a complete package; mixing of parts/components is forbidden.										
		Option	Tail Wicker		Rear Wing Assembly		Rear Wing Flap			Rear Wing Flap Wicker		
Manufacturer			Type	Maximum Permitted Option	Type	Maximum Angle / Position	Type	Position	Maximum Angle	Maximum Permitted Option		
										Span	Height	
			mm	mm		degrees			degrees	mm	mm	
Acura	ARX-05	OPTION 1	Per Technical Credential [IMSA]	28.3 Per Template	Per Technical Credential [IMSA] [IMSA]	12.4	Sprint As-Homologated [FIA]	N/A	31.7	1800	10.0	
Cadillac	DPi-V.R	OPTION 1	Per Technical Credential [IMSA]	30.0	Sprint As-Homologated [FIA]	15.0	Sprint As-Homologated [FIA]	Rotated	26.8	1200	5.0	

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LMP2	Vehicles		Mass		Engine			Aero	Fuel			Notes
	Constructor		Minimum No Fuel/Driver (kg)		Make	Volume (L)	Maximum RPM	Configuration	Type	Total Capacity (L)	Minimum Full Refueling Time (sec)	
			adj	current			current			adj current		
	ORECA	07		940	Gibson	4.2	8700	See Table	E20	75.0	34.0	

* Aero configuration is defined via the Aero Configuration tables below.

LMP2	LMP2 AERODYNAMIC CONFIGURATIONS	FRONT AERODYNAMIC CONFIGURATIONS			REAR AERODYNAMIC CONFIGURATIONS										
		Optional Front Aerodynamic Configurations are Independent			Optional Rear Aerodynamic Configurations Must be Used as a Complete Package; Mixing of Parts/Components is Forbidden										
	IWSC Rolex	Dive Planes	Packers / Inserts	Other	Option	Tail Wicker		Rear Wing Assembly			Rear Wing Flap			Rear Wing Flap Wicker	
	Manufacturer	Permitted Options	Permitted Configurations	Permitted Options		Type	Minimum Height	Option	Type	Minimum Angle / Position	Type	Position	Minimum Angle	Span	Minimum Height
						mm	mm			degrees			degrees	mm	mm
	ORECA 07	**As-Homologated [FIA]:** Lower	As-Homologated [FIA]	As-Homologated [FIA]	OPTION 1	As-Homologated [FIA]	16.3	OPTION 1	Sprint As-Homologated [FIA]	8.0 / Position 5 [Average of Left, Center, & Right measurements]	Sprint As-Homologated [FIA]	N/A	26.0	Full	10.0

LMP2	LMP2 AERODYNAMIC CONFIGURATIONS	REAR AERODYNAMIC CONFIGURATIONS										
		Optional Rear Aerodynamic Configurations Must be Used as a Complete Package; Mixing of Parts/Components is Forbidden										
		Option	Tail Wicker		Rear Wing Assembly		Rear Wing Flap			Rear Wing Flap Wicker	
	Manufacturer		Type	Maximum Permitted Option	Type	Maximum Angle / Position	Type	Position	Maximum Angle	Maximum Permitted Option	
										Span	Height
			mm	mm		degrees			degrees	mm	mm
	ORECA 07	OPTION 1	Per Technical Credential [IMSA]	16.3	Sprint As-Homologated [FIA]	11.2 / Position 3 [Average of Left, Center, & Right measurements]	Sprint As-Homologated [FIA]	N/A	30.1	Full	10.0

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GTD / GTD-PRO

Vehicles		Mass		Engine						Ride Height		Rear Wing		Fuel				Notes
Manufacturer		Minimum No Fuel/Driver (kg)		Restrictor Diameter (mm)			Average Power Delta (kW)	Maximum RPM		Minimum Ground Clearance (mm)		Min Angle (deg)	Max Angle (deg)	Type	Lambda	Total Capacity (L)		Minimum Full Refueling Time (sec)	
		adj	current	qty.	adj	current	adj	adj	current	adj	current				λ	adj	current		
Acura	NSX GT3		1320						7500		50.0	+3.9	As Homologated	IMSA 100	0.88		102.0	40.0	EVO
Aston Martin	Vantage AMR GT3		1320						7200		50.0	+6.0	As Homologated	IMSA 100	0.91		107.0	40.0	
BMW	M4 GT3		1330						7000		50.0	+0.0	As Homologated	IMSA 100	1.10		98.0	40.0	
Corvette	C8.R GTD		1320	1		41.3			7400		50.0	+11.0	As Homologated	IMSA 100	0.88		90.0	40.0	15 mm Wicker Rear Wing Required
Ferrari	488 GT3		1300						7500		50.0	+3.0	As Homologated	IMSA 100	0.90		97.0	40.0	
Lamborghini	Huracan GT3		1305	2		37.0			8500		50.0	+5.8	As Homologated	IMSA 100	0.89		104.0	40.0	
Lexus	RC F GT3		1345	2		38.0			7200		50.0	+6.5	As Homologated	IMSA 100	0.86		105.0	40.0	
McLaren	720S GT3		1295						8000		50.0	+2.5	As Homologated	IMSA 100	0.88		101.0	40.0	
Mercedes	AMG GT3		1350	2		34.5			7700		50.0	-1.0	As Homologated	IMSA 100	0.90		106.0	40.0	
Porsche	911 GT3 R		1300	2		38.0			9500		50.0	+2.0	As Homologated	IMSA 100	0.88		98.0	40.0	

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Acura NSX GT3

Engine Speed	Boost Ratio	
[rpm]	adj	current
2000		1.792
4000		1.792
4500		1.796
5000		1.840
5500		1.867
6000		1.881
6200		1.885
6300		1.895
6400		1.898
6500		1.896
6600		1.891
6700		1.880
6800		1.865
7000		1.834
7500		1.778
7800		1.000

Aston Martin AMR GT3

Engine Speed	Boost Ratio	
[rpm]	adj	current
2000		1.510
4000		1.510
4250		1.549
4500		1.588
4750		1.637
5000		1.686
5250		1.721
5500		1.755
5750		1.794
6000		1.794
6250		1.794
6500		1.794
6750		1.765
7000		1.745
7200		1.745
7500		1.000

BMW M4 GT3

Engine Speed	Boost Ratio	
[rpm]	adj	current
2000		1.950
3000		1.950
3500		1.950
4000		2.002
4500		2.065
5000		2.148
5250		2.206
5500		2.279
5750		2.363
6000		2.381
6250		2.400
6500		2.324
6750		2.239
7000		2.106
7250		2.006
7500		1.000

Ferrari 488 GT3

Engine Speed	Boost Ratio	
[rpm]	adj	current
2000		1.390
4000		1.390
4500		1.428
4750		1.453
5000		1.479
5250		1.496
5500		1.513
5750		1.514
6000		1.516
6250		1.505
6500		1.494
6750		1.470
7000		1.461
7250		1.452
7500		1.410
7800		1.000

McLaren 720S GT3

Engine Speed	Boost Ratio	
[rpm]	adj	current
2000		1.616
4000		1.616
4500		1.610
5000		1.604
5500		1.598
5750		1.579
6000		1.561
6250		1.533
6500		1.505
6750		1.463
7000		1.421
7250		1.389
7500		1.356
7750		1.352
8000		1.347
8300		1.000