IMSA TECHNICAL BULLETIN IWSC #16-16

To: All IMSA WeatherTech SportsCar Championship Competitors

From: IMSA Competition

Date: 18 February 2016

Re: 2016 Sebring Test Balance of Performance Tables

In accordance with Attachment 2 of the IMSA WeatherTech SportsCar Championship SSR, the following adjustments are made to the indicated cars. The column listed as current is the current specification after the adjustment is applied and thus the required specification for the event. These decisions come into immediate effect and are applicable until further notice.

IMSA has determined the values listed in all tables based upon Manufacturer submitted data and IMSA's data analysis.

P	Vehicles		Mass		Engine							Aerodynamics	Fuel					Notes
	Manufacturer		No Fuel/Driver (kg)		Make	Volume (L)	Turbo/NA	Restrictor (mm)			Boost Ratio	Body	Type	Tank Capacity (L)		Refueling Restrictor (mm)		
			adj	current				qty.	adj	current	current			adj	current	adj	current	
	Event: 20160225 IWSC Sebring Test				Bulletin: TB 16-16			Date: 2/18/2016										
	Corvette	Coyote/ Dallara/ Riley	-10	1029	Chevrolet	5.5	NA	2	+0.3	33.1		HDF	IMSA100	0	76.0	0.0	33.0	
	DeltaWing	DWC13	+10	530	Elan	2.0	Turbo				See Table	HDF/Sprint	IMSA100	0	53.0	0.0	29.0	
	Dinan	Riley	0	1039	Dinan	5.0	NA	1	2.0	76.0		HDF	IMSA100	0	81.0	0.0	33.0	
	Ligier	JS P2	0	950	Honda	3.5	Turbo	2	0.0	40.0	See Table	HDF/Sprint	IMSA100	0	78.3	0.0	33.0	
	Lola	B11/80	-10	890	Mazda	2.0	Turbo	1	0.0	46.2	See Table	HDF/Sprint	IMSA100	0	78.0	0.0	33.0	
	ORECA	05		TBD	Nissan	4.5	N/A	1		TBD		HDF/Sprint	IMSA100		TBD		TBD	

Prototype boost tables follow on the next page…

Prototype Boost Tables

Elan DeltaWing DWC13

Engine Speed	Boost Ratio
[rpm]	
2000	1.926
4000	1.926
4483	1.926
4967	1.926
5450	1.926
5933	1.926
6417	1.926
6900	1.926
7383	1.926
7867	1.926
8350	1.926
8833	1.926
9317	1.926
9800	1.926
10300	1.826
10400	1.000

Honda Ligier JSP2

Engine Speed	Boost Ratio
[rpm]	
2000	1.579
3000	1.579
3308	1.579
3615	1.579
3923	1.579
4231	1.579
4538	1.604
4846	1.629
5154	1.629
5462	1.629
5769	1.641
6077	1.653
6385	1.653
7000	1.653
7500	1.554
7600	1.000

Mazda Lola B11/80

Engine Speed	Boost Ratio
[rpm]	
2000	2.541
5000	2.541
5258	2.541
5517	2.541
5775	2.541
6033	2.541
6292	2.541
6550	2.541
6808	2.541
7067	2.541
7325	2.541
7583	2.541
7842	2.541
8100	2.541
8600	2.441
8700	1.000

PC	Vehicles		Mass		Engine						Aerodynamics	Fuel					Notes
	Manufacturer		No Fuel/Driver (kg)		Make	Volume (L)	Turbo/NA	Restrictor (mm)			Rear Wing Position	Type	Tank Capacity (L)		Refueling Restrictor (mm)		
			adj	current				qty.	adj	current			adj	current	adj	current	
	Event: 20160225 IWSC Sebring Test				Bulletin: TB 16-16			Date: 2/18/2016									
	ORECA	FLM-09	0	910	Chevrolet	6.2	NA	None			N/A	IMSA100	0	85.0	0.0	33.5	

GTLM	Vehicles		Mass		Engine				Rear Wing		Fuel								Notes
	Manufacturer		No Fuel/Driver (kg)		Restrictor (mm)			Boost Ratio	Min Angle (deg)	Gurney Minimum Height (mm)	Type	Declared Minimum Lambda	Tank Capacity (L)		Refueling Restrictor (mm)				
			adj	current	qty.	adj.	base			current		λ	adj	current	Type	adj	current		
	Event: 20160225 IWSC Sebring Test				Bulletin: TB 16-16			Date: 2/18/2016											
	BMW	M6 GTLM	0	1240				See Table	N/A	15.0	E20	0.96	0.0	104.0	Dan Jones	0.0	33.5		
	Corvette	C7R GTE	+10	1250	2	-0.4	29.5		N/A	10.0	E20	0.87	0.0	92.0		0.0	32.0		
	Ferrari	488 GTE	0	1240				See Table	N/A	10.0	E20	1.10	0.0	78.0	Dan Jones	0.0	29.5		
	Ford	GT GTE	+10	1250				See Table	N/A	15.0	E20	0.90	0.0	93.0	ATL	0.0	35.0		
	Porsche	911 RSR GTE	-10	1230	2	0.0	30.9		N/A	10.0	E20	0.89	0.0	91.0	Dan Jones	0.0	32.0		

* Technical drawings of air restrictors must be registered with IMSA. Only restrictors in compliance with this registration are allowed.

BMW M6 GTLM

Engine Speed	Boost Ratio
[rpm]	
2000	1.533
2500	1.710
3000	1.869
3500	1.951
4000	1.971
4500	1.999
5000	1.999
5250	1.976
5500	1.930
5750	1.879
6000	1.828
6250	1.766
6500	1.703
6750	1.648
7250	1.529
7350	1.000

Ferrari 488 GTE

Engine Speed	Boost Ratio
[rpm]	
2000	1.709
4000	1.709
4250	1.695
4500	1.680
4750	1.648
5000	1.634
5250	1.657
5500	1.666
5750	1.642
6000	1.605
6250	1.561
6500	1.508
6750	1.434
7000	1.386
7500	1.263
7600	1.000

Ford GT GTE

Engine Speed	Boost Ratio
[rpm]	
2000	1.562
4200	1.562
4450	1.539
4700	1.547
4950	1.552
5200	1.546
5450	1.549
5700	1.536
5950	1.479
6200	1.448
6450	1.445
6700	1.420
6950	1.369
7200	1.247
7700	1.060
7800	1.000

GTD	Vehicles		Mass		Engine					Ride Height		Fuel							Notes
	Manufacturer		No Fuel/Driver (kg)		Restrictor (mm)			Boost Ratio	Maximum RPM		Minimum Ground Clearance (mm)	Type	Declared Minimum Lambda	Tank Capacity (L)		Refueling Restrictor (mm)			
			adj	current	qty.	adj	current		adj	current	adj	current		λ	adj	current	Type	adj	current	
	Event: 20160225 IWSC Sebring Test				Bulletin: TB 16-16			Date: 2/18/2016												
	Aston Martin	V12 Vantage GT3	0	1250	2	-0.5	41.5		0	7700	0	50.0	IMSA 100	0.90	0.0	103.0	ATL	0.0	30.5	
	Audi	R8 LMS Ultra	+10	1300	2	0.0	54.0		0	8600	0	50.0	IMSA 100	0.89	0.0	107.0	Stäubli	0.0	34.5	
	Audi	R8 LMS GT3	0	1300	2	0.0	38.0		0	8500	0	50.0	IMSA 100	0.91	0.0	90.0	Krontec	0.0	27.0	
	BMW	M6 GT3	0	1310				See Table	0	7250	0	50.0	IMSA 100	0.92	0.0	104.0	Krontec	0.0	30.5	
	Dodge	Viper GT3	+15	1335	2	+1.0	39.0		0	6500	0	50.0	IMSA 100	0.88	0.0	107.0	ATL	0.0	34.5	
	Ferrari	F458 Italia	-10	1270	2	0.0	45.5		0	8200	0	50.0	IMSA 100	0.88	0.0	94.0	ATL	0.0	32.0	
	Ferrari	488 GT3		1300				See Table	0	7500	0	50.0	IMSA 100	0.92		TBD			TBD	
	Lamborghini	Huracan GT3		TBD	2		TBD		0	8500	0	50.0	IMSA 100	0.91	0.0	90.0	Krontec	0.0	27.0	
	Porsche	911 GT3R	+10	1280	2	0.0	38.0		0	9500	0	50.0	IMSA 100	0.88	0.0	84.0	Krontec	0.0	25.0	

* Technical drawings of air restrictors must be registered with IMSA. Only restrictors in compliance with this registration are allowed.

BMW M6 GT3

Engine Speed	Boost Ratio
[rpm]	
2000	1.579
2500	1.683
3000	1.785
3500	1.862
4000	1.941
4500	1.994
5000	2.034
5250	2.003
5500	1.969
5750	1.914
6000	1.881
6250	1.842
6500	1.811
6750	1.724
7500	1.547
7600	1.000

Ferrari 488 GT3

Engine Speed	Boost Ratio
[rpm]	
2000	1.468
4000	1.468
4269	1.500
4538	1.529
4808	1.565
5077	1.608
5346	1.654
5615	1.693
5885	1.716
6154	1.716
6423	1.688
6692	1.636
6962	1.590
7231	1.544
7500	1.498
7800	1.000