



IMSA TECHNICAL BULLETIN IWSC #18-10

To: All IMSA WeatherTech SportsCar Championship Competitors

From: IMSA Competition

Date: 18 January 2018

Re: 20180118 IWSC Rolex 24 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					Aero	Fuel					Notes				
	Manufacturer	Model	No Fuel/Driver (kg)		Make	Volume (L)	Turbo/NA	Restrictor (mm)			Boost Ratio	Maximum RPM	Configuration	Type	Minimum Lambda		Tank Capacity (L)		Refueling Restrictor (mm)	
			adj	current				qty.	adj	current							current	current	λ	adj
Issued: 20180125 IWSC Rolex 24			Bulletin: TB 18-10			Date: 1/18/2018														
Acura	ARX-05	0	940	Acura	3.5	Turbo				See Table	7050	See Table	E20	0.83	+4.0	80.0	+1.5	28.0		
Cadillac	DPI-V.R	0	940	Cadillac	5.5	NA	2	-0.6	31.6		7500	See Table	E20	0.92	+1.0	68.0	+0.5	23.5		
Dallara	P217	0	930	Gibson	4.2	NA					8750		E20		0.0	75.0				
Mazda	RT24-P	-15	915	Mazda	2.0	Turbo				See Table	8600	See Table	E20	0.88	0.0	78.0	+0.5	27.0		
Multimatic Riley	Riley MK30	0	930	Gibson	4.2	NA					8750	See Table	E20		0.0	75.0	0.0	26.0		
Nissan	DPI	0	940	Nissan	3.8	Turbo				See Table	7100	See Table	E20	0.85	+2.0	80.0	+1.5	28.0		
Onroak	Ligier JS P217	0	930	Gibson	4.2	NA					8750	See Table	E20		0.0	75.0	0.0	26.0		
ORECA	07	0	930	Gibson	4.2	NA					8750	See Table	E20		0.0	75.0	0.0	26.0		

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

Acura ARX-05

Engine Speed [rpm]	Boost Ratio
2000	1.467
3200	1.467
3600	1.608
4000	1.725
4400	1.769
4800	1.769
5200	1.769
5600	1.769
6000	1.769
6200	1.759
6400	1.744
6600	1.744
6800	1.719
7050	1.687
7550	1.624
7650	1.000

Mazda RT24-P

Engine Speed [rpm]	Boost Ratio
2000	2.500
5200	2.500
5800	2.500
6000	2.500
6250	2.500
6500	2.519
6900	2.594
7000	2.598
7150	2.599
7300	2.580
7500	2.540
7800	2.505
8100	2.476
8300	2.455
9100	2.226
9200	1.000

Nissan DPI

Engine Speed [rpm]	Boost Ratio
2000	1.612
4000	1.612
4200	1.668
4850	1.668
5200	1.703
5500	1.770
5800	1.826
6000	1.842
6200	1.837
6400	1.823
6700	1.808
6850	1.808
6950	1.818
7100	1.818
7600	1.646
7700	1.000

P		PROTOTYPE 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							
20180125 IWSC Daytona 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	Type	Angle / Position	Type	Position	Minimum Angle	Span	Minimum Height
						mm	mm		degrees			degrees	mm	mm
Acura	ARX-05	Per Technical Credential [IMSA]: Removed Single Double	Per Technical Credential [IMSA]: Per Technical Credential [IMSA]	Per Technical Credential [IMSA]: Acura Side Wicker	OPTION 1	Per Technical Credential [IMSA]	16.0	Per Technical Credential [IMSA]	-1.4	Sprint As-Homologated [FIA]	N/A	30.1	Removed	
Cadillac	DPI-V.R	Per Technical Credential [IMSA]: Removed LDF Single Single Double	Per Technical Credential [IMSA]: Splitter Outboard Fill-in Packers Low Downforce Front Fender Insert	Per Technical Credential [IMSA]: Must run high downforce Side Wicker Option Only at all times	OPTION 1	Per Technical Credential [IMSA]	30.0	Sprint As-Homologated [FIA]	11.0	Sprint As-Homologated [FIA]	STD	18.4	1200	5.0
Mazda	RT24-P	Per Technical Credential [IMSA]: Removed Trimmed Lower Single Double	Per Technical Credential [IMSA]: Splitter Inboard Fill-in Packers Lower Front Fender Packer	Per Technical Credential [IMSA]: All Side Wicker / Bootscraper Options Splitter Outboard Shoes / Footplates	OPTION 1	Per Technical Credential [IMSA]	20.0	Per Technical Credential [IMSA]	Position 1	Sprint As-Homologated [FIA]	HDF	N/A	Removed	
Multimatic Riley	Riley MK30	All Options As-Homologated [FIA]			OPTION 1	As-Homologated [FIA]	65.0	Sprint As-Homologated [FIA]	Position 1	Sprint As-Homologated [FIA]	N/A	N/A	Full	As WEC Homologated on Riley
					OPTION 2	Removed								
Nissan	DPI	Per Technical Credential [IMSA]: Removed MDF HDF	Per Technical Credential [IMSA]: Splitter extension	Per Technical Credential [IMSA]: All Side Wicker Options	OPTION 1	Per Technical Credential [IMSA]	12.5	Sprint As-Homologated [FIA]	9.3 (B1/MP5)	Sprint As-Homologated [FIA]	F2/LIM	N/A	N/A	
Onroak	Ligier JS P217	All Options As-Homologated [FIA]			OPTION 1	As-Homologated [FIA]	12.5	Sprint As-Homologated [FIA]	7.3 (A3/MP1)	Sprint As-Homologated [FIA]	F4/0	N/A	N/A	
					OPTION 2	Removed			8.3 (B2/MP3)					
ORECA	07	All Options As-Homologated [FIA]			OPTION 1	As-Homologated [FIA]	16.3	Sprint As-Homologated [FIA]	-1.4	Sprint As-Homologated [FIA]	N/A	30.1	Full	10.0

GTLM	Vehicles		Mass		Engine			Rear Wing			Fuel				Notes			
	Manufacturer		No Fuel/Driver (kg)		Restrictor (mm)			Boost Ratio	Maximum RPM	Min Angle (deg)	Gurney Minimum Height (mm)	Type	Minimum Lambda	Tank Capacity (L)		Refueling Restrictor (mm)		
			adj	current	qty.	adj.	current							current		current	current	adj
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BMW	M8 GTE	-10	1240				See Table	7000	2.0	5.0	E20	1.08	+6.0	93.0	+3.0	33.5		
Corvette	C7R GTE	0	1240	2	0.0	30.6		6800	2.0	10.0	E20	0.88	+1.0	91.0	0.0	32.5		
Ferrari	488 GTE	0	1265				See Table	7000	0.0	10.0	E20	1.10	0.0	87.0	0.0	29.5		
Ford	GT GTE	0	1265				See Table	7200	5.0	15.0	E20	0.90	+2.0	91.0	+1.0	31.0		
Porsche	911 RSR GTE	0	1250	2	0.0	31.5		9500	1.0	10.0	E20	0.89	-3.0	92.0	-1.0	31.5		

BMW M8 GTE

Engine Speed	Boost Ratio
[rpm]	
2000	1.230
2500	1.450
3000	2.210
3500	2.220
4000	2.230
4500	2.240
5000	2.110
5250	2.035
5500	1.960
5750	1.895
6000	1.830
6500	1.770
6750	1.650
7000	1.510
7500	1.230
7600	1.000

Ferrari 488 GTE

Engine Speed	Boost Ratio
[rpm]	
2000	1.784
4000	1.784
4800	1.768
5000	1.764
5150	1.761
5300	1.759
5500	1.753
5700	1.742
5950	1.718
6050	1.701
6150	1.680
6300	1.646
6600	1.571
7000	1.473
7500	1.349
7600	1.000

Ford GT GTE

Engine Speed	Boost Ratio
[rpm]	
2000	1.528
4200	1.528
4900	1.527
5100	1.526
5300	1.522
5400	1.517
5500	1.510
5800	1.481
5950	1.460
6050	1.448
6150	1.437
6300	1.421
6600	1.392
7200	1.312
7700	1.251
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	Minimum Lambda	Tank Capacity (L)		Refueling Restrictor (mm)	
		adj	current	qty.	adj	current		adj	current	adj	current		λ	adj	current	adj	current
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Acura	NSX GT3	+10	1310				See Table	0	7500	0	50.0	IMSA 100	0.85	+5.0	105.0	+1.0	33.5
Aston Martin	V12 Vantage GT3	0	1290	2	0.0	41.5		0	7700	0	50.0	IMSA 100	0.90	0.0	108.0	0.0	35.5
Audi	R8 LMS GT3	0	1320	2	-1.0	39.0		0	8500	0	50.0	IMSA 100	0.91	-3.0	91.0	-1.0	29.0
BMW	M6 GT3	0	1325				See Table	0	7250	0	50.0	IMSA 100	0.92	+3.0	106.0	+1.0	34.0
Ferrari	488 GT3	0	1345				See Table	0	7500	0	50.0	IMSA 100	0.92	+2.0	94.0	+0.5	27.0
Lamborghini	Huracan GT3	0	1300	2	-1.0	38.0		0	8500	0	50.0	IMSA 100	0.91	-3.0	92.0	-1.0	27.0
Lexus	RC F GT3	0	1340	2	0.0	38.0		0	7200	0	50.0	IMSA 100	0.86	0.0	100.0	0.0	31.5
Mercedes	AMG GT3	-15	1375	2	0.0	36.0		0	7500	0	50.0	IMSA 100	0.88	0.0	101.0	0.0	31.5
Porsche	911 GT3 R	0	1285	2	0.0	40.0		0	9500	0	50.0	IMSA 100	0.88	0.0	91.0	0.0	25.5

Acura NSX GT3

Engine Speed [rpm]	Boost Ratio
2000	1.765
4000	1.765
4500	1.768
5000	1.815
5500	1.880
6000	1.986
6200	2.015
6300	2.025
6400	2.028
6500	2.026
6600	2.021
6700	2.010
6800	1.993
7000	1.960
7500	1.900
7800	1.000

BMW M6 GT3

Engine Speed [rpm]	Boost Ratio
2000	1.627
3000	1.839
4000	2.000
4500	2.054
4750	2.075
5000	2.095
5250	2.063
5500	2.029
5750	1.971
6000	1.938
6250	1.897
6500	1.866
6750	1.776
7000	1.715
7250	1.640
7550	1.000

Ferrari 488 GT3

Engine Speed [rpm]	Boost Ratio
2000	1.424
4000	1.424
4500	1.479
4750	1.511
5000	1.548
5250	1.588
5500	1.627
5750	1.657
6000	1.666
6250	1.658
6500	1.624
6750	1.580
7000	1.539
7250	1.494
7500	1.453
7800	1.000