



IMSA TECHNICAL BULLETIN IWSC #23-38

To: All IMSA WeatherTech SportsCar Championship Competitors
From: IMSA Competition
Date: March 31, 2023
Re: IMSA Long Beach GTP, GTD PRO, and GTD Balance of Performance

One Daytona Blvd.
Daytona Beach, FL 32114
P: +1 (386) 310-60

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.



GTP		Vehicles	Mass	ICE	Power	Energy	Fuel	Notes
Manufacturer		Minimum No Fuel/Driver (kg)	Nmax (rpm)	Maximum Power (kW)	Maximum Stint Energy (MJ)	Stint Energy Replenishment Rate (MJ/sec)	Type	
		current						
Acura	ARX-06	1045	9512	520	914.0	22.850	R80	
BMW	M Hybrid V8	1036	8000	515	907.0	22.675	R80	
Cadillac	V-Series.R	1031	8800	513	903.0	22.575	R80	
Porsche	963	1036	8158	515	907.0	22.675	R80	

GTP Maximum Power (kW)

Engine Speed (N/Nmax)	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520		
<0.550	236	237	237	238	238	239	239	240	240	241	241	242	242	243	243	244	244	245	245	246	246	247	247	248	248	249	249	250	250	251	251	252	252	253	253	254	254	255	255	256	256		
0.550	236	237	237	238	238	239	239	240	240	241	241	242	242	243	243	244	244	245	245	246	246	247	247	248	248	249	249	250	250	251	251	252	252	253	253	254	254	255	255	256	256		
0.575	258	259	259	260	260	261	261	262	262	263	264	264	265	265	266	266	267	267	268	268	269	270	270	271	271	272	272	273	273	274	274	275	275	276	276	277	277	278	278	279	279		
0.600	277	278	278	279	279	280	281	281	282	282	283	284	284	285	285	286	287	287	288	288	289	290	290	291	291	292	292	293	293	294	295	295	296	296	297	297	298	298	299	299	300	300	
0.625	297	298	298	299	299	300	301	301	302	302	303	304	304	305	305	306	307	307	308	308	309	310	310	311	312	312	313	314	314	315	316	316	317	317	318	319	319	320	321	321	322	322	
0.650	317	318	318	319	320	320	321	322	322	323	324	324	325	325	326	327	327	328	329	329	330	331	331	332	333	333	334	335	335	336	337	337	338	338	339	340	340	341	342	342	343	343	
0.675	337	338	338	339	340	341	341	342	343	343	344	345	345	346	347	348	348	349	350	350	351	352	352	353	354	355	355	356	357	357	358	359	359	360	361	362	362	363	364	364	365	365	
0.700	358	359	359	360	361	362	362	363	364	364	365	366	366	367	368	369	369	370	371	371	372	373	374	374	375	376	377	377	378	379	380	380	381	382	383	383	384	385	386	386	387	387	
0.725	378	379	380	380	381	382	383	383	384	385	386	387	388	389	389	390	391	392	392	393	394	395	395	396	397	398	399	399	400	401	402	403	403	404	405	406	407	407	408	409	409		
0.750	397	398	399	399	400	401	402	403	403	404	405	406	407	407	408	409	410	411	411	412	413	414	415	416	416	417	418	419	420	421	422	422	423	424	425	426	427	427	428	429	430	430	
0.775	415	416	417	418	418	419	420	421	422	423	424	424	425	426	427	428	429	429	430	431	432	433	434	435	435	436	437	438	439	440	441	441	442	443	444	445	446	446	447	448	449	449	
0.800	431	432	433	434	435	436	436	437	438	439	440	441	442	443	444	445	445	446	447	448	449	450	451	452	453	454	454	455	456	457	458	459	460	461	462	463	463	464	465	466	466	467	467
0.825	445	446	447	448	449	450	451	452	453	454	455	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	469	470	471	472	473	474	475	476	477	478	478	479	480	481	482	482	
0.850	456	457	458	459	460	461	462	463	464	465	466	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	485	486	487	488	489	490	491	492	493	494	494	
0.875	466	467	468	469	470	471	472	473	474	475	476	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	504		
0.900	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	512	
0.925	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	517	
0.950	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	520	
0.975	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	518	
1.000	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	514	514	
1.025	410	411	412	413	413	414	415	416	417	418	419	419	420	421	422	423	424	424	425	426	427	428	429	430	430	431	432	433	434	435	436	436	437	438	439	440	441	441	442	443	444	444	

Linear interpolation will be used to determine intermediate power levels between displayed engine speed break points



GTD		GTD		PRO		Vehicles		Mass		Engine				Ride Height		Fuel				Notes
Manufacturer		Minimum No Fuel/Driver (kg)		Restrictor Diameter (mm)		Average Power Delta (kW)		Maximum RPM		Minimum Ground Clearance (mm)		Type		Lambda		Total Capacity (L)		Minimum Full Refueling Time (sec)		
		adj	current	qty.	current	adj	current	current					λ	adj	current					
Acura	NSX GT3	+20	1310			+6.2	7500	50.0	IMSA 100	0.88	+2.0	113.0	40.0	EVO II						
Aston Martin	Vantage GT3		1275				7200	50.0	IMSA 100	0.91	+3.0	105.0	40.0							
BMW	M4 GT3	-20	1290				7250	50.0	IMSA 100	1.10		99.0	40.0							
Corvette	C8.R GTD		1355	1	41.0	-9.8	7400	50.0	IMSA 100	0.88	-2.0	86.0	40.0	10 mm Rear Wing Gurney Required, 40 kg in BoP Ballast Box (+/-3 kg)						
Ferrari	296 GT3		1380				8000	50.0	IMSA 100	0.90	-4.0	103.0	40.0							
Lamborghini	Huracan GT3 EVO2		1320	1	52.0	+15.6	8500	50.0	IMSA 100	0.91	+3.0	115.0	40.0							
Lexus	RC F GT3		1345	2	37.0		7200	50.0	IMSA 100	0.86	+2.0	104.0	40.0							
McLaren	720S GT3 EVO		1305			+12.2	8000	50.0	IMSA 100	0.88	+8.0	113.0	40.0							
Mercedes	AMG GT3		1390	2	33.5	-9.6	7700	50.0	IMSA 100	0.90		103.0	40.0							
Porsche	911 GT3 R (992)		1340	2	38.0		9400	50.0	IMSA 100	0.89	-6.0	97.0	40.0							



Acura NSX GT3

Engine Speed	Boost Ratio	
	adj	current
[rpm]		
2000	0.046	1.884
4000	0.046	1.884
4500	0.046	1.888
5000	0.047	1.934
5500	0.048	1.963
6000	0.049	1.978
6200	0.049	1.982
6300	0.049	1.992
6400	0.049	1.995
6500	0.049	1.993
6600	0.049	1.988
6700	0.048	1.977
6800	0.048	1.961
7000	0.047	1.928
7500	0.045	1.869
7800		1.000

Aston Martin GT3

Engine Speed	Boost Ratio
	current
[rpm]	
2000	1.472
4000	1.472
4250	1.510
4500	1.549
4750	1.596
5000	1.644
5250	1.678
5500	1.711
5750	1.749
6000	1.749
6250	1.749
6500	1.749
6750	1.721
7000	1.701
7200	1.701
7500	1.000

BMW M4 GT3

Engine Speed	Boost Ratio
	current
[rpm]	
2000	2.058
3000	2.058
3500	2.058
4000	2.113
4500	2.179
5000	2.268
5250	2.328
5500	2.406
5750	2.494
6000	2.513
6250	2.533
6500	2.454
6750	2.363
7000	2.223
7250	2.117
7500	1.000

Ferrari 296 GT3

Engine Speed	Boost Ratio
	current
[rpm]	
2000	1.688
4000	1.688
4500	2.090
5000	2.292
5500	2.353
5750	2.364
6000	2.355
6250	2.356
6500	2.358
6750	2.339
7000	2.313
7250	2.289
7500	2.233
7750	2.182
8000	2.126
8500	1.000

McLaren 720S GT3 EVO

Engine Speed	Boost Ratio	
	adj	current
[rpm]		
2000	0.043	1.659
4000	0.043	1.659
4500	0.043	1.653
5000	0.043	1.647
5500	0.042	1.640
5750	0.042	1.621
6000	0.041	1.602
6250	0.041	1.574
6500	0.040	1.545
6750	0.039	1.502
7000	0.038	1.459
7250	0.037	1.426
7500	0.036	1.392
7750	0.036	1.388
8000	0.036	1.383
8300		1.000