BALANCE OF PERFORMANCE FOR CHANG INTERNATIONAL CIRCUIT :

In accordance with the 2023 FGTWC Sporting Regulations

These balance of performance measures are the result of the tests, research, analysis and projections performed by SRO Ltd and are the sole property of SRO Ltd. Other series promoters, race organizers and national sporting authorities cannot use all or part of them without SRO Ltd's prior written consent. Any contravention will result in a legal action.

BALANCE OF PERFORMANCE
FIA GT3 CARS

Make	FIA GT3 Homologation	Model	Min Weight	BOP Ballast	Total Weight without driver weight	Engine Restrictor size mm	Min RH Front mm	Min RH Rear mm	Lambda Fixed	Comments
Acura/Honda	GT3-047	NSX EVO2	1260	40	**1300**	none	66	66	**0,88**	Max Pboost see table
Aston Martin	GT3-051	AMR Vantage GT3	1285	25	**1310**	**none**	53	53	**0,91**	Max Pboost see table
Audi	GT3-038	R8 LMS GT3 EVO II	1260	50	**1310**	**2 x 36**	65,5	128	**0,91**	
BMW	GT3-053	G82 M4 GT3	1265	45	**1310**	**none**	82,5	81,5	**1,10**	Max Pboost see table
Chevrolet	GT3-045	Corvette C7 GT3	1250	30	**1280**	**1 x 52**	65	71	**0,88**	
Ferrari	GT3-044	488 GT3	1260	50	**1310**	**none**	73	98	**0,90**	Max Pboost see table
Ferrari	GT3-056	296 GT3	1275	35	**1310**	**none**	80	83	**0,91**	Max Pboost see table
Lamborghini	GT3-040	Huracan GT3 2019	1230	85	**1315**	**2 x 39**	70	128	**0,89**	
Lexus	GT3-046	RC F - GT3	1300	10	**1310**	**2 x 40**	90	280	**0,86**	
McLaren	GT3-052	720S GT3	1205	65	**1270**	**none**	65	70	**0,88**	Max Pboost see table
Mercedes	GT3-042	AMG GT3 EVO	1285	45	**1330**	**2 x 34,5**	81	87	**0,93**	
Nissan	GT3-048	GTR Nismo GT3	1285	35	**1320**	**none**	124	165	**0,88**	Max Pboost see table
Porsche	GT3-041	911 GT3-R (991)	1225	40	**1265**	**2 x 41,5**	72	124	**0,88**	
Porsche	GT3-055	911 GT3-R (992)	1250	20	**1270**	**2 x 38**	96	120	**0,89**	

Decisions taken by the SRO GT Bureau 26/04/2023

FANATEC GT WORLD CHALLENGE POWERED BY aws

BALANCE OF PERFORMANCE
FIA GT3 CARS
Maximum Pboost Limit ratio for Turbo cars

SRO MOTORSPORTS GROUP

Engine speed	Acura/ Honda NSX GT3	AMR Vantage GT3	BMW M4 GT3	Ferrari 488 GT3	Ferrari 296 GT3	McLaren 720 S GT3	Nissan GT-R Nismo GT3
RPM	Pboost ratio @ rpm @ Lambda	Pboost ratio @ rpm @ Lambda	Pboost ratio @ rpm @ Lambda	Pboost ratio @ rpm @ Lambda	Pboost ratio @ rpm @ Lambda	Pboost ratio @ rpm @ Lambda	Pboost ratio @ rpm @ Lambda
4000	1.87 @ 0.88	1.54 @ 0.91	2.33 @ 1.10	1.47 @ 0.90	1.78 @ 0.90	1.76 @ 0.88	1.94 @ 0.88
4250				1.49 @ 0.90	1.91 @ 0.90		
4500	1.93 @ 0.88	1.64 @ 0.91	2.42 @ 1.10	1.50 @ 0.90	2.05 @ 0.90	1.73 @ 0.88	1.93 @ 0.88
4750			2.45 @ 1.10	1.51 @ 0.90	2.22 @ 0.90		
5000	1.96 @ 0.88	1.77 @ 0.91	2.48@ 1.10	1.53 @ 0.90	2.40 @ 0.90	1.71 @ 0.88	1.90 @ 0.88
5250			2.53 @ 1.10	1.55 @0.90	2.38 @ 0.90		
5500	1.98 @ 0.88	1.82 @ 0.91	2.61 @ 1.10	1.57 @ 0.90	2.34 @ 0.90	1.70 @ 0.88	1.85 @ 0.88
5750			2.64 @ 1.10	1.59 @ 0.90	2.34 @ 1.10		
6000	1.99 @ 0.88	1.84 @ 0.91	2.67 @ 1.10	1.57 @ 0.90	2.33 @ 0.90	1.61 @ 0.88	1.81 @ 0.88
6250			2.71 @ 1.10	1.55 @ 0.90	2.33 @ 0.90		
6500	2.01 @ 0.88	1.82 @ 0.91	2.62 @ 1.10	1.53 @ 0.90	2.32 @ 0.90	1.55 @ 0.88	1.77 @ 0.88
6750		1.81 @ 0,91	2.52 @ 1.10	1.51 @ 0.90	2.30 @ 0.90		
6900							1.75 @ 0.88
7000	1.99 @ 0.88	1.79 @ 0.91	2.38 @ 1.10	1.50 @ 0.90	2.24 @ 0.90	1.45 @ 0.88	1.40 @ 0.88
7250		1.37 @ 0.91	2.23 @ 1.10	1.46 @ 0.90	2.20 @ 0.90		
7500	1.97 @ 0.88		2.10 @ 1.10	1.42 @ 0.90	2.15 @ 0.90	1.39 @ 0.88	
7600				1.35 @ 0.90			
8000	1.20 @ 0.88				1.00 @ 0.90	1.34 @ 0.88	
8100						1.10 @ 0.88	

Decisions taken by the SRO GT Bureau 26/04/2023

1. Remarks:
1.1 Additional weight must be installed in accordance with article 257A
1.2 1.2 In accordance with article 257A Appendix J 2023 , the fuel cell must be equipped with the mandatory foam supplied by and installed following the directives from the manufacturer of the fuel cell.
1.3 Technical drawings of air restrictors for FIA GT3 cars are registered with FIA. Only restrictors in compliance with this registration are allowed
1.4 Use of catalytic converter compulsory
1.5 Aero devices can not be covered by tape or paint.
1.6 The SRO Sporting Board is allowed to modify any parameter required to establish the balance of performance.
1.7 Engine reference data (iA, Lambda, Fuel inj, Cam In/Out, airbox pressure) and other info (acceleration rates, spark plugs/ airbox filter, engine oil,…) is collected during BOP tests and will be used for checks. If noted differently in comments the (e.g. iA, Lambda, Fuel inj, Cam In/Out, airbox pressure) is set as reference.
1.8 Maximum allowed static rear camber -3,5°
1.9 For the following cars : Acura/Honda EVO 2022, BMW M4 GT3, Ferrari 296 GT3, Lamborghini Huracan GT3 EVO2, Porsche 911 GT3 R (992), only the springs registered with SRO can be used all other FIA GT3 cars have to use the springs described in their homologation file.

2. Notes on boost control :

- Values are boost pressure ratio and need to be multiplicated by the ambient pressure to get the Pboost limit.
- Competitors must adjust boost pressure relative to ambient pressure at each event
- Pboost limits linear interpolation approach
- Control of Pboost strategy see further.

3.Control of Pboost strategy via Series Datalogger and pressure sensors:

IF

- Throttle is > 30% open AND
- RPM is > 3000 AND
- Longitudinal Acceleration is increasing or constant or >/0 AND
- OVERBOOST > “Limit + 10 mbar” is recorded for more than 50ms

THEN

- Flag and report to the stewards

BALANCE OF PERFORMANCE
SRO GT4 CARS

Make	Model	Min Weight kg	BOP Ballast kg	Total Weight kg without driver	Ride Height Front	BOP extra mm	Ride Height Rear	BOP Extra mm	Comments
Aston Martin	Vantage AMR GT4	1445	+70	1515	93	+15	102	+0	SRO MAP3 ECU BOP 2020
Audi	R8LMS GT4	1460	+50	1510	95	+10	107	+0	Restrictor 44 mm ECU BOP 2021
BMW	G82 M4 GT4	1480	+10	1490	138,90	+11,10	149,50	+10,50	MAP 5 LT +1 ECU BOP 10/2022
McLaren	570S GT4	1425	+15	1440	77	+0	90	+0	°2019 MAP ECU BOP 2020
Mercedes	AMG GT4	1400	+50	1450	93	+10	96	+5	POWER LEVEL MAP 2
Porsche	718 Cayman GT4 RS CS	1330	+70	1400	97	+15	100	+5	Restrictor 53,7mm ECU BOP 2022
Toyota	GR Supra GT4	1360	+50	1410	175	+10	175	+10	Blue power stick V2 ECU BOP 2022
Toyota	GR Supra GT4 EVO	1370	+40	1410	165	+10	165	+10	Silver power stick ECU BOP 2023

Remarks :
- Additional BOP Ballast must be installed according with art. 4.2 and art 4.3 of the GT4 Technical Regulations
- ECU BOP maps are saved in the dataloggers for scrutineering.
- Cars are only eligible if presented with GT4 homologation file and SRO GT4 Certificate
- SRO GT Bureau can use any parameter for BOP purposes and can change the BOP of any car at any moment during the event.
- Turbo cars without adaptable pboost* (McLaren 570S GT4)need to add +10kg per 20mbar ambient pressure delta under 1010mbar, this means + 10 kg at Patmo of 990mb, +20 kg at Patmo of 970 mbar and +30 kg at Patmo of 950 mbar

Decisions taken by the SRO GT Bureau 26/04/2023