«Согласовано»	«Утверждено»
Комитет кольцевых гонок РАФ	АНО СМП РЭЙСИНГ (Гонки)
«15» августа 2024	«15» августа 2024

Организатор спортивных соревнований доводит до сведения участников следующую информацию:

Настоящий Бюллетень дополняет ранее выпущенные (в сезоне 2024) бюллетени и решения, касающиеся проведения соревнований по кольцевым гонкам, входящим в состав спринтерских гонок СМП РСКГ. В случае противоречий, приоритет имеют предписания настоящего Бюллетеня.

ПОДГОТОВКА СПОРТИВНОЙ ТЕХНИКИ

1. **Зачётная группа «Туринг»**
   - 1.1. Констатируется актуальный технический ВОР Бюллетень TCR 07-24 от 07.08.2024 (в Приложении к настоящему Бюллетеню).
   - 1.2. Таблица компенсационных весов на пятый этап ЧР в Приложении к настоящему Бюллетеню.
   - 1.3. С учетом сложностей с поставками комплектующих, для автомобилей LADA VESTA TCR NG, на 5 этапе Чемпионата России G-Drive СМП РСКГ (IGORA DRIVE, 22-24 августа 2024) разрешить использование ведомого диска сцепления, которым комплектовался автомобиль LADA VESTA TCR первого поколения. Производителю предписывается к следующему этапу ЧР омологировать эту деталь в РАФ виде национального расширения к Технической форме TCR.
2. **Зачётная группа «Туринг Лайт»**
   - 2.1. Пролонгировать п.2 Решения №05 КСК 3 этапа Чемпионата России (Казань Ринг Каньон, 20 – 22 июня 2024) на все этапы ЧР 2024, начиная с этапа «ИГОРА ДРАЙВ, 22-24 августа 2024». А именно, Заявителям автомобилей, в которых применено накладное одностороннее крепление поворотного кулака к корпусу амортизатора на их усмотрение и по их заявлению предписать увеличение минимального веса по техническим требованиям на 10 кг, либо увеличение минимального дорожного просвета на 10 мм.
   - 2.2. Для автомобилей KIA Rio_X (омологация РАФ 1801) всех подгрупп подготовки «Турбо» , разрешить использовать для забора воздуха в систему питания двигателя верхнюю часть заглушки переднего бампера (с левой стороны), как это сделано в омологационном расширении 10/05 ES-T_24, страница 44.
   - 2.3. Разъясняется п.302 ТТ (Приложение 28 к КиТТ). ***Опоры двигателя (302).*** *Эластичные элементы крепления силового агрегата – свободные. Принцип действия (перемещение за счет упругой деформации эластичного материала) должен быть сохранен*. Этот пункт относится ко всем трем подгруппам подготовки и не предписывает наличия эластичных элементов в опорах, а лишь оговаривает свободу в отношении материала эластичных элементов при их наличии. Более того, п.302-3, который относится только к

подгруппе «Турбо» прямо указывает, что: *Опоры силового агрегата оригинальные либо **омологированные**, включая их количество, местоположение, материал*. В текст Приложения 28 к КиТТ на 2025 будут внесены соответствующие уточнения.

2.4. Поскольку производители “AG TEAM” «Промышленные Силовые Машины» и «РЕЙСЛЕНД», по сравнению с предыдущим этапом ЧР провели коррекцию прошивок, предписания по используемым уровням прошивок будут определены непосредственно перед 5 этапом ЧР, в том числе, по результатам тестов и тренировок.

3. Зачётная группа «Суперпродакшн».

3.1. На 5 и 6 этапах КР будет действовать “BOP” – Таблица «для скоростных трасс». В Приложении.

4. Зачётная группа «GT4».

4.1. Отнесение трасс к типам C или D. Из числа ныне используемых СМП РСКГ автодромов, по классификации “SRO” к “Tracks-C” относятся “Игора Драйв” и “MOSCOW RACEWAY”. Остальные – к “Tracks-D”. Соответствующие BOP Бюллетени дублируются в Приложении.

4.2. Напоминание. На основании п.4 Бюллетеня 12С-24 от 20 июня 2024, начиная с этапа Кубка РАФ на автодроме “ Игора Драйв ” 22 – 24 августа 2024, максимальный угол развала колес задней оси – 3,5 градуса.

ПРИЛОЖЕНИЯ

1. BOP Бюллетень TCR 07-24 от 07.08.2024 (Спринт).
2. Таблица компенсационных весов TCR Russia на 5 этап ЧР.
3. BOP – Суперпродакшн для скоростных трасс.
4. “BOP” – бюллетени SRO для“Tracks-C” и “Tracks-D”.

TCR TECHNICAL BULLETIN - ENDURANCE 07/08/2024

*The current Technical Bulletin is with immediate application, and valid until further notice (modifications in **bold**).*

The Endurance Technical Bulletin will refer also to any regulation changes/updates published on the TCR Technical Bulletins.

TCR Certified Car List:

BRAND	MODEL	ECU Type*
AlfaRomeo	Giulietta Veloce TCR	M
AlfaRomeo	Giulietta RF TCR	M
Audi	RS3 LMS SEQ	R
Audi	RS3 LMS DSG	R
Audi	RS3 LMS TCR	C
Cupra	TCR SEQ	R
Cupra	TCR DSG	R
Cupra	Leon Competicion TCR	C
Cupra	Leon VZ TCR	C
Honda	Civic FK7 TCR	M
Honda	Civic FL5 TCR	C
Hyundai	Elantra N TCR	C
Hyundai	i30 N TCR	M
Hyundai	Veloster N TCR	M
Lada	Vesta Sport TCR	M
Lada	Vesta NG TCR	C
Lynk&Co	03 TCR	M
Lynk&Co	03 TCR	C
Lynk&Co	03 FL TCR	C
MG	6 XPOWER TCR	M
Peugeot	308 TCR	M
Renault	Megane RS TCR	M
Subaru	WRX STI TCR	M
Toyota	Corolla GRS TCR	C
VW	Golf GTI TCR SEQ	R
VW	Golf GTI TCR DSG	R

* R: Road Car ECU; M: Motorsport ECU; C: Common ECU

** Temporary Technical Form / Currently Under certification

List of Changes:

- BoP Parameters:
  - Cupra Leon VZ TCR: Change of Ground Clearance to 70 mm (-10 mm).

General Secretary of the Technical Department
Riccardo Alborno
Riccardo Alborno

BoP for ENDURANCE races only (Modifications in bold):

Brand	Model	ECU Type & Power Level	Target Racing Weight	Assigned Ballast	Minimum Racing Weight	Ground Clearance
Alfa-Romeo	Giulietta Veloce TCR	M3	1210 kg	- 5kg	1205 kg	70 mm
Alfa-Romeo	Giulietta RF TCR	M4	1210 kg	- 5kg	1205 kg	70 mm
Audi	RS3 LMS SEQ	R3	1210 kg	- 5kg	1205 kg	70 mm
Audi	RS3 LMS DSG	R4	1185 kg	+ 10kg	1195 kg	70 mm
Audi	RS3 LMS TCR	C3	1210 kg	- 5kg	1205 kg	70 mm
Cupra	TCR SEQ	R3	1210 kg	0kg	1210 kg	70 mm
Cupra	TCR DSG	R4	1185 kg	0kg	1185 kg	70 mm
Cupra	Leon Competición TCR	C3	1210 kg	- 5kg	1205 kg	70 mm
Cupra	Leon VZ TCR	C3	1210 kg	0kg	1210 kg	**70 mm**
Honda	Civic FK7 TCR	M3	1210 kg	+ 10kg	1220 kg	70 mm
Honda	Civic FL5 TCR	C3	1210 kg	+ 5kg	1215 kg	80 mm
Hyundai	i30 N TCR	M2	1210 kg	+ 15kg	1225 kg	80 mm
Hyundai	Veloster N TCR	M2	1210 kg	+ 15kg	1225 kg	90 mm
Hyundai	Elantra N TCR	C2	1210 kg	+ 5kg	1215 kg	80 mm
Lada	Vesta Sport TCR	M3	1210 kg	+ 20kg	1230 kg	80 mm
Lada	Vesta NG TCR	C3	1210 kg	0kg	1210 kg	80 mm
Lynk&Co	03 TCR	M2	1210 kg	0kg	1210 kg	80 mm
Lynk&Co	03 TCR	C2	1210 kg	0kg	1210 kg	80 mm
Lynk&Co	03 FL TCR	C2	1210 kg	0kg	1210 kg	80 mm
MG	6 XPOWER TCR	M3	1210 kg	0kg	1210 kg	70 mm
Peugeot	308 TCR	M3	1210 kg	- 25kg	1185 kg	70 mm
Renault	Mégane RS TCR	M3	1210 kg	- 5kg	1205 kg	70 mm
Subaru	WRX STI TCR	M3	1210 kg	- 5kg	1205 kg	70 mm
Toyota	Corolla GRS TCR	C4	1210 kg	+ 5kg	1215 kg	70 mm
VW	Golf GTI TCR SEQ	R3	1210 kg	- 5kg	1205 kg	60 mm
VW	Golf GTI TCR DSG	R4	1185 kg	- 5kg	1180 kg	60 mm

[1]Endurance Target Racing Weight is car's generic dry weight without driver.
[2]Endurance Minimum Weight is car's imposed minimum dry weight without driver.
Agreed principles:
Assigned Ballast for Endurance Races will be 50% of the Assigned Ballast for TCR Races. For any TCR Series or class with a participation of DSG cars over the 40% of the total number of cars on grid, the Target Racing Weight of the SEQ cars may be increased by the Series Promoter from 10 to 40 kg maximum. Promoters are requested to inform WSC in written form.

Imposed parameters for certified software

Alfa Romeo

Alfa Romeo	Giulietta Veloce TCR		Limit Support Points		
			fEngRpm	*pManifold*	*rLambda*
Engine		FPT	4000	2455	-
ECU Make (Type)		Life Racing (Motorsport)	4250	2460	-
Gearbox		any	4500	2515	-
ECU Type & Power Level		M3	4750	2585	-
Calibration File		AL-FPT-M3-S-S_1.1.2.1.lrc	5000	2635	-
Calibration File (with ABS)		AL-FPT-M3-S-E_1.1.2.1.lrc	5250	2640	-
Correction [mbar/°C]		1	5500	2655	-
Checksum	crcHigh	49387	5750	2640	-
	crcLow	2535	6000	2645	-
Checksum (with ABS)	crcHigh	51983	6250	2635	-
	crcLow	2521	6500	2610	-
			6750	2605	-
units: [1/min] for fEngRpm, [mbar] for pManifold			6900	2570	-
			7000	2570	-
			7200	2570	-

Alfa Romeo	Giulietta RF TCR		Limit Support Points		
			fEngRpm	*pManifold*	*rLambda*
Engine		FPT	4150	2460	-
ECU Make (Type)		Life Racing (Motorsport)	4400	2485	-
Gearbox		any	4650	2590	-
ECU Type & Power Level		M4	4900	2670	-
Calibration File		AL-FPT-M4-S-S_1.1.2.1.lrc	5150	2685	-
Calibration File (with ABS)		AL-FPT-M4-S-E_1.1.2.1.lrc	5400	2700	-
Correction [mbar/°C]		1	5650	2695	-
Checksum	crcHigh	17392	5900	2690	-
	crcLow	52036	6150	2695	-
Checksum (with ABS)	crcHigh	19988	6400	2670	-
	crcLow	52022	6650	2655	-
			6900	2750	-
units: [1/min] for fEngRpm, [mbar] for pManifold			7050	2750	-
			7150	2700	-
			7200	2700	-

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Audi, Cupra, VW

Audi	RS3 LMS SEQ
Cupra	Cupra TCR SEQ
VW	Golf GTI TCR SEQ
Engine	EA888Evo3
ECU Make (Type)	Continental (Roadcar)
Gearbox	Sadev
ECU Type & Power Level	R3
Calibration File	-
Correction [mbar/°C]	9
Checksum	5F6906259AL

units: [1/min] for fEngRpm, [mbar] for pManifold

Limit Support Points		
fEngRpm	*pManifold*	*rLambda*
3800	2125	-
4050	2100	-
4300	2085	-
4550	2055	-
4800	2195	-
5050	2400	-
5300	2535	-
5550	2530	-
5800	2565	-
6050	2480	-
6300	2420	-
6550	2340	-
6700	2305	-
6800	2230	-

Audi	RS3 LMS DSG
Cupra	Cupra TCR DSG
VW	Golf GTI TCR DSG
Engine	EA888Evo3
ECU Make (Type)	Continental (Roadcar)
Gearbox	DSG
ECU Type & Power Level	R4
Calibration File	-
Correction [mbar/°C]	5
Checksum	5F6906259T

units: [1/min] for fEngRpm, [mbar] for pManifold

Limit Support Points		
fEngRpm	*pManifold*	*rLambda*
4000	2025	-
4250	1995	-
4500	1970	-
4750	1950	-
5000	2090	-
5250	2275	-
5500	2430	-
5750	2445	-
6000	2430	-
6250	2355	-
6500	2325	-
6750	2175	-
6900	1990	-
7000	1930	-

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Audi	RS3 LMS TCR		Limit Support Points		
Cupra	Leon Competición TCR		*fEngRpm*	*pManifold*	*rLambda*
			4000	1970	-
Engine		EA888Evo4	4250	1985	-
ECU Make (Type)		TCR ECU (Common)	4500	1980	-
Gearbox		Hewland	4750	1980	-
ECU Type & Power Level		C3	5000	2040	-
Calibration File		CU-EA888Evo4-C-H-S_2.1.0.clx	5250	2225	-
Correction [mbar/°C]		8	5500	2350	-
Checksum	crcAPP	0x56B994BD	5750	2405	-
	crcPartSign	0x44CB857B	6000	2380	-
	crcPartZero	0x370887BB	6250	2335	-
	crcPartOne	0xE7E98586	6500	2285	-
			6750	2235	-
units: [1/min] for fEngRpm, [mbar] for pManifold			6900	2210	-
			7000	2140	-

Audi	RS3 LMS TCR		Limit Support Points		
			fEngRpm	*pManifold*	*rLambda*
Engine		EA888Evo4	4000	1970	-
ECU Make (Type)		TCR ECU (Common)	4250	1985	-
Gearbox		Sadev	4500	1980	-
ECU Type & Power Level		C3	4750	1980	-
Calibration File		CU-EA888Evo4-C-S-S_2.1.0.clx	5000	2040	-
Correction [mbar/°C]		8	5250	2225	-
Checksum	crcAPP	0x56B994BD	5500	2350	-
	crcPartSign	0x44CB857B	5750	2405	-
	crcPartZero	0x36F9955D	6000	2380	-
	crcPartOne	0x4FDA3EA	6250	2335	-
			6500	2285	-
			6750	2235	-
units: [1/min] for fEngRpm, [mbar] for pManifold			6900	2210	-
			7000	2140	-

Cupra	Leon VZ TCR		Limit Support Points		
			fEngRpm	*pManifold*	*rLambda*
Engine		EA888Evo4	4000	1970	-
ECU Make (Type)		TCR ECU (Common)	4250	1985	-
Gearbox		Hewland	4500	1980	-
ECU Type & Power Level		C3	4750	1980	-
Calibration File		CU-EA888Evo4-C-H-S-VZ_2.1.0.clx	5000	2040	-
Correction [mbar/°C]		8	5250	2225	-
Checksum	crcAPP	0x56B994BD	5500	2350	-
	crcPartSign	0x44CB857B	5750	2405	-
	crcPartZero	0xE3C69C54	6000	2380	-
	crcPartOne	0x9DCC6809	6250	2335	-
			6500	2285	-
units: [1/min] for fEngRpm, [mbar] for pManifold			6750	2235	-
			6900	2210	-
			7000	2140	-

Cupra	Leon VZ TCR		Limit Support Points		
			fEngRpm	*pManifold*	*rLambda*
Engine		EA888Evo4	4000	1970	-
ECU Make (Type)		TCR ECU (Common)	4250	1985	-
Gearbox		Sadev	4500	1980	-
ECU Type & Power Level		C3	4750	1980	-
Calibration File		CU-EA888Evo4-C-S-S-VZ_2.1.0.clx	5000	2040	-
Correction [mbar/°C]		8	5250	2225	-
Checksum	crcAPP	0x56B994BD	5500	2350	-
	crcPartSign	0x44CB857B	5750	2405	-
	crcPartZero	0xBE6F66E6	6000	2380	-
	crcPartOne	0x4B0E094F	6250	2335	-
			6500	2285	-
units: [1/min] for fEngRpm, [mbar] for pManifold			6750	2235	-
			6900	2210	-
			7000	2140	-

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Honda

Honda	Civic FK7 TCR		Limit Support Points		
			fEngRpm	*pManifold*	*rLambda*
Engine		K20CRE	4000	2090	-
ECU Make (Type)		MoTeC (Motorsport)	4250	2100	-
Gearbox		any	4500	2100	-
ECU Type & Power Level		M3	4750	2020	-
Calibration File		HO-K20CRE-M-0-0_1.2.0.m1pkg	5000	2115	-
Correction [mbar/°C]		10	5250	2280	-
			5500	2360	-
units: [1/min] for fEngRpm, [mbar] for pManifold			5750	2495	-
			6000	2460	-
			6250	2390	-
			6500	2350	-
			6750	2260	-
			6900	2240	-
			7000	1900	-

Honda	Civic FL5 TCR		Limit Support Points		
			fEngRpm	*pManifold*	*rLambda*
Engine		K20CRL5	3900	2210	-
ECU Make (Type)		TCR ECU (Common)	4150	2220	-
Gearbox		Sadev	4400	2210	-
ECU Type & Power Level		C3	4650	2240	-
Calibration File		HO-K20CRL5-C-S-S_2.1.0.clx	4900	2260	-
Correction [mbar/°C]		10	5150	2310	-
Checksum	crcAPP	0x56B994BD	5400	2335	-
	crcPartSign	0x44CB857B	5650	2370	-
	crcPartZero	0xFCD0EBBE	5900	2375	-
	crcPartOne	0x63CAB33E	6150	2370	-
			6400	2335	-
units: [1/min] for fEngRpm, [mbar] for pManifold			6650	2285	-
			6800	2260	-
			6900	2180	-

Hyundai

Hyundai	i30 N TCR		Limit Support Points		
Hyundai	Veloster N TCR		*fEngRpm*	*pManifold*	*rLambda*
			4000	1965	-
Engine		Theta2G4KHA	4250	1970	-
ECU Make (Type)		Life Racing (Motorsport)	4500	1980	-
Gearbox		any	4750	1995	-
ECU Type & Power Level		M2	5000	2050	-
Calibration File		HY-Theta2G4KHA-M2-X-S_1.1.2.lrc	5250	2195	-
Calibration File (with ABS)		HY-Theta2G4KHA-M2-X-E_1.1.2.lrc	5500	2375	-
Correction [mbar/°C]		10	5750	2265	-
Checksum	crcHigh	56934	6000	2165	-
	crcLow	4514	6250	2210	-
Checksum (with ABS)	crcHigh	64473	6500	2190	-
	crcLow	5500	6750	2145	-
			6900	2145	-
units: [1/min] for fEngRpm, [mbar] for pManifold			7000	1710	-

Hyundai	Elantra N TCR		Limit Support Points		
			fEngRpm	*pManifold*	*rLambda*
Engine		Theta2G4KHN	4000	1925	-
ECU Make (Type)		TCR ECU (Common)	4250	1925	-
Gearbox		any	4500	1925	-
ECU Type & Power Level		C2	4750	2005	-
Calibration File		HY-Theta2G4KHN-C-X-S_2.2.0.clx	5000	2065	-
Correction [mbar/°C]		8	5250	2175	-
Checksum	crcAPP	0x56B994BD	5500	2295	-
	crcPartSign	0x44CB857B	5750	2330	-
	crcPartZero	0xAE9BD74A	6000	2250	-
	crcPartOne	0xA778CE3	6250	2190	-
			6500	2110	-
units: [1/min] for fEngRpm, [mbar] for pManifold			6750	2075	-
			6900	1925	-
			7000	1500	-

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Lada

Lada	Vesta Sport TCR		Limit Support Points		
			fEngRpm	*pManifold*	*rLambda*
Engine		M5P404	3900	1965	-
ECU Make (Type)		Marelli (Motorsport)	4150	1970	-
Gearbox		any	4400	1970	-
ECU Type & Power Level		M3	4650	1980	-
Calibration File		LA-M5P404-M-S-S_1.1.0.clx	4900	2005	-
Correction [mbar/°C]		6	5150	2190	-
Checksum	crcEEP1	39470	5400	2345	-
	crcEEP2	64745	5650	2535	-
	crcAPP1	19289	5900	2575	-
	crcAPP2	6949	6150	2515	-
			6400	2475	-
units: [1/min] for fEngRpm, [mbar] for pManifold			6650	2405	-
			6800	2350	-
			6900	2320	-

Lada	Vesta NG TCR		Limit Support Points		
			fEngRpm	*pManifold*	*rLambda*
Engine		M5P	4000	1915	-
ECU Make (Type)		TCR ECU (Common)	4250	1915	-
Gearbox		any	4500	1935	-
ECU Type & Power Level		C3	4750	1975	-
Calibration File		LA-M5P-C-3-S-16.47_2.1.1.cl**x**	5000	2200	-
Correction [mbar/°C]		9	5250	2505	-
Checksum	crcAPP	0x56B994BD	5500	2690	-
	crcPartSign	0x44CB857B	5750	2640	-
	crcPartZero	0x86B38C68	6000	2630	-
	crcPartOne	0x7D00A315	6250	2580	-
			6500	2520	-
units: [1/min] for fEngRpm, [mbar] for pManifold			6750	2495	-
			6900	2515	-
			7000	2475	-

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Lada	Vesta NG TCR		Limit Support Points		
			fEngRpm	*pManifold*	*rLambda*
Engine		M5P	4000	1915	-
ECU Make (Type)		TCR ECU (Common)	4250	1915	-
Gearbox		any + VO323	4500	1935	-
ECU Type & Power Level		C3	4750	1975	-
Calibration File		LA-M5P-C-3-S-18.51_2.1.1.clx	5000	2200	-
Correction [mbar/°C]		9	5250	2505	-
Checksum	crcAPP	0x56B994BD	5500	2690	-
	crcPartSign	0x44CB857B	5750	2640	-
	crcPartZero	0xCD3F72DF	6000	2630	-
	crcPartOne	0xAE3F5948	6250	2580	-
			6500	2520	-
units: [1/min] for fEngRpm, [mbar] for pManifold			6750	2495	-
			6900	2515	-
			7000	2475	-

Lynk&Co

Lynk&Co	03 TCR		Limit Support Points		
			fEngRpm	*pManifold*	*rLambda*
Engine		B4204T27	4200	2260	-
ECU Make (Type)		MoTeC (Motorsport)	4450	2265	-
Gearbox		any	4700	2295	-
ECU Type & Power Level		M2	4950	2305	-
Calibration File		LynkCo 03 TCR Engine Custom ECU 92.5% v2.02	5200	2310	-
Correction [mbar/°C]		4	5450	2335	-
			5700	2340	-
units: [1/min] for fEngRpm, [mbar] for pManifold			5950	2335	-
			6200	2330	-
			6450	2330	-
			6700	2325	-
			6950	2295	-
			7100	2285	-
			7200	2265	-

Lynk&Co	03 TCR		Limit Support Points		
			fEngRpm	*pManifold*	*rLambda*
Engine		B4204T27	4000	2155	-
ECU Make (Type)		TCR ECU (Common)	4250	2180	-
Gearbox		any	4500	1945	-
ECU Type & Power Level		C2	4750	1985	-
Calibration File		LY-B4204T27-C-X-S_2.2.0.clx	5000	2050	-
Correction [mbar/°C]		9	5250	2135	-
Checksum	crcAPP	0x56B994BD	5500	2305	-
	crcPartSign	0x44CB857B	5750	2315	-
	crcPartZero	0xD7B42AE3	6000	2320	-
	crcPartOne	0x6FF7CC55	6250	2355	-
			6500	2380	-
units: [1/min] for fEngRpm, [mbar] for pManifold			6750	2310	-
			6900	2290	-
			7000	1850	-

Lynk&Co	03 FL TCR		Limit Support Points		
			fEngRpm	*pManifold*	*rLambda*
Engine		B4204T57	4000	2205	-
ECU Make (Type)		TCR ECU (Common)	4250	2220	-
Gearbox		Xtrac	4500	2050	-
ECU Type & Power Level		C2	4750	2025	-
Calibration File		LY-B4204T57-C-X-S_2.2.0.clx	5000	2155	-
Correction [mbar/°C]		9	5250	2255	-
Checksum	crcAPP	0x56B994BD	5500	2430	-
	crcPartSign	0x44CB857B	5750	2440	-
	crcPartZero	0xF8D67C68	6000	2430	-
	crcPartOne	0x1D5C8D8E	6250	2455	-
			6500	2490	-
units: [1/min] for fEngRpm, [mbar] for pManifold			6750	2400	-
			6900	2390	-
			7000	1850	-

MG

MG	6 XPOWER TCR		Limit Support Points		
			fEngRpm	*pManifold*	*rLambda*
Engine		SAICNLE	3600	2090	-
ECU Make (Type)		Marelli (Motorsport)	3850	2125	-
Gearbox		any	4100	2150	-
ECU Type & Power Level		M3	4350	2195	-
Calibration File		MG-SAICNLE-M-S-S_1-1-0.clx	4600	2215	-
Correction [mbar/°C]		3	4850	2235	-
Checksum	crcEEP1	11388	5100	2265	-
	crcEEP2	42442	5350	2305	-
	crcAPP1	54219	5600	2275	-
	crcAPP2	29701	5850	2260	-
			6100	2275	-
units: [1/min] for fEngRpm, [mbar] for pManifold			6350	2215	-
			6500	2165	-
			6600	2140	-

Peugeot

Peugeot	308 TCR			Limit Support Points	
			fEngRpm	*pManifold*	*rLambda*
Engine		EP6FDTR	4250	2435	-
ECU Make (Type)		Marelli (Motorsport)	4500	2455	-
Gearbox		any	4750	2505	-
ECU Type & Power Level		M4	5000	2440	-
Calibration File		PE-308-M4_2020-1-0.clx	5250	2380	-
Correction [mbar/°C]		8	5500	2445	-
Checksum	crcFirm1	38630	5750	2515	-
	crcFirm2	3096	6000	2670	-
	crcCalib1	42332	6250	2640	-
	crcCalib2	3334	6500	2630	-
			6750	2660	-
units: [1/min] for fEngRpm, [mbar] for pManifold			7000	2575	-
			7150	2490	-
			7250	2060	-

Renault

Renault	Mégane RS TCR		Limit Support Points		
			fEngRpm	*pManifold*	*rLambda*
Engine		M5PTCE	4350	2475	-
ECU Make (Type)		Bosch (Motorsport)	4600	2585	-
Gearbox		any	4850	2580	-
ECU Type & Power Level		M3	5100	2560	-
Calibration File		RE-Megane-M3_2020-1-0.s19	5350	2560	-
Correction [mbar/°C]		5	5600	2425	-
			5850	2410	-
units: [1/min] for fEngRpm, [mbar] for pManifold			6100	2305	-
			6350	2445	-
			6600	2430	-
			6850	2425	-
			7100	2510	-
			7250	2460	-
			7350	2335	-

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Subaru

Subaru	STI WRX TCR	
Engine		EJ20
ECU Make (Type)		MoTeC (Motorsport)
Gearbox		any
ECU Type & Power Level		M4
Calibration File		Subaru_STI_TCR_2019_BoP_97
Correction [mbar/°C]		2

units: [1/min] for fEngRpm, [mbar] for pManifold

Limit Support Points		
fEngRpm	*pManifold*	*rLambda*
4100	2130	-
4350	2160	-
4600	2195	-
4850	2220	-
5100	2235	-
5350	2245	-
5600	2260	-
5850	2280	-
6100	2250	-
6350	2165	-
6600	2090	-
6850	2040	-
7000	2015	-
7100	2045	-

Toyota

Toyota	Corolla GRS TCR			Limit Support Points	
			fEngRpm	*pManifold*	*rLambda*
Engine		8ARFTS	3550	2210	-
ECU Make (Type)		TCR ECU (Common)	3800	2280	-
Gearbox		any	4050	2280	-
ECU Type & Power Level		C4	4300	2290	-
Calibration File		TO-8ARFTS-C-S-S_2.1.0.clx	4550	2300	-
Correction [mbar/°C]		7	4800	2340	-
Checksum	crcAPP	0x56B994BD	5050	2350	-
	crcPartSign	0x44CB857B	5300	2380	-
	crcPartZero	0xC450F6B9	5550	2360	-
	crcPartOne	0xA7C994EE	5800	2405	-
			6050	2345	-
units: [1/min] for fEngRpm, [mbar] for pManifold			6300	2255	-
			6450	2175	-
			6550	2175	-

CW Table - TCR Championship: RUSSIA

For event: #5 **Published** 28/06/2024

CW Assigned Kg.	General Classification of drivers with the best "total points" collected during the latest Competition (Qualifications + Races) Driver(s)
40	Vladimir Atoev (RUS)
30	Mikhail Simonov (RUS)
30	Aleksandr Smolyar (RUS),
20	Ivan Chubarov (RUS)
10	Zakhar Slutskiy (RUS)
0	All other drivers who attended to the last event.

Refer to Art 3.9 Balance of Performance of *Technical Regulation (latest release).* Keep in consideration the min racing weigh's upper limit.

Refer to document: *TCR Notification CW formula (latest release)*

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For event: #4 **Published** 03/06/2024

CW Assigned Kg.	General Classification of drivers with the best "total points" collected during the latest Competition (Qualifications + Races) Driver(s)
40	Egor Sanin (RUS)
30	Mikhail Simonov (RUS)
30	Zakhar Slutskiy (RUS)
20	Aleksandr Smolyar (RUS), Dmitry Bragin (RUS)
10	Vladimir Atoev (RUS)
0	All other drivers who attended to the last event.

Refer to Art 3.9 Balance of Performance of *Technical Regulation (latest release).* Keep in consideration the min racing weigh's upper limit.

Refer to document: *TCR Notification CW formula (latest release)*

WSC World Sporting Consulting Limited
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For event: #3

Published 07/05/2024

CW Assigned Kg.	General Classification of drivers with the best "total points" collected during the latest Competition (Qualifications + Races) Driver(s)
40	Vladimir Atoev (RUS)
30	Artem Slutskiy (RUS)
30	Kirill Smal (RUS)
20	Ivan Chubarov (RUS)
10	Aleksandr Smolyar (RUS), Mikhail Simonov RUS)
0	All other drivers who attended to the last event.

Refer to Art 3.9 Balance of Performance of *Technical Regulation (latest release).* Keep in consideration the min racing weigh's upper limit.

Refer to document: *TCR Notification CW formula (latest release)*

CW Table

For event: #2

Published 15/04/2024

CW Assigned Kg.	General Classification of drivers with the best "total points" collected during the latest Competition (Qualifications + Races) Driver(s)
40	Mikhail Simonov
30	Aleksandr Smolyar
30	Dmitry Bragin
20	Vladimir Atoev
10	Ivan Chubarov
0	All other drivers who attended to the last event.

Refer to Art 3.9 Balance of Performance of *Technical Regulation (latest release).* Keep in consideration the min racing weigh's upper limit.

Refer to document: *TCR Notification CW formula (latest release)*

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Подгруппа подготовки	***1,6 T***	***2,0T***	***2.0T***	***2.0T***	***2.0T***	***2.0T***	***Сток***	***Сток***
Модель	LADA Vesta	Mazda 3	Subaru BRZ	Subaru BRZ	Honda Civic Type R	Honda Civic Type R	VW Scirocco	VW Scirocco
Тип КПП	SEQ	Н-образн	SEQ	Н-образн	Н-образн	SEQ	DSG	Н-образн
Минимальный вес, кг	1200	1160	1200	1200	1200	1200	1200	1200
Дополнительный вес за привод на заднюю ось. (п.201-5 ТТ), кг			30	30				
Максимальное избыточное давление, наддува бар	1,00	1,00	**0,64**	**0,64**	0,60	0,60	1,37	1,37
Рестриктор, мм	36	38	**36**	**36**	**35**	**35**	б/р	б/р
Клиренс мм	80	80	80	80	**90**	**90**	80	80
Примечание:	**** На а/м Subaru BRZ использование заднего антикрыла, описанного расширением РАФ А-03/01 VO_15, разрешено: на дождевых шинах – без ограничений. На сухих шинах максимальный угол атаки антикрыла 13 градусов. Измеряется прикладыванием угломера к передней и задней кромкам антикрыла, расположенным в вертикальной продольной плоскости симметрии а/м.***							

Balance of Performance
SRO GT4 CARS
TRACKS C

BALANCE OF PERFORMANCE FOR :

Tracks C

Decisions taken by the SRO GT Bureau 01/05/2024

Balance of Performance
SRO GT4 CARS
TRACKS C

Make	Model	Min Weight kg	BOP Ballast kg	Total weight	Ride Height Front	BOP extra mm	Ride Height Rear	BOP Extra mm	Comments
Aston Martin	Vantage AMR GT4 EVO	1475	+60	1535	93	+15	102	+10	*MAP Restricted 3 ECU BOP 2024
BMW	G82 M4 GT4	1480	+25	1505	138,90	+16,10	149,50	+10,50	MAP 4 LT 0 ECU BOP 10/2022
Mercedes	AMG GT4	1400	+75	1475	93	+15	96	+0	POWER LEVEL 3 ECU BOP 2020
Toyota	GR SUPRA GT4	1360	+40	1400	175	+5	175	+0	Blue Power Stick V2 ECU BOP 2021
Toyota	GR Supra GT4 EVO	1370	+60	1430	165	+15	165	+10	Silver Power Stick ECU BOP 2023

Remarks :
-Additional BOP Ballast must be installed according to the GT4 Technical Regulations
-ECU BOP maps are saved in the dataloggers for scrutineering.
- GT4 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.
- Engine reference data (iA, Lambda, Fuel inj, Cam In/Out, airbox pressure) is the one 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.
- Turbo cars without adaptable pboost , identified by * in the BOP sheet, need to add +10kg per 10 mbar ambient pressure delta under 1000mbar, this means + 10 kg at Patmo of 990mb, +20 kg at Patmo of 980 mbar and +30 kg at Patmo of 970 mbar
- BMW M4 GT4 G82 adapt at Patmo via LT. Reference is 1000 mbar, -1 LT must be applied per -20 mbar Patmo, this means -1 LT at Patmo of 980mb, -2 LT at Patmo of 960 mbar and -3 LT at Patmo of 940 mbar.

Decisions taken by the SRO GT Bureau 01/05/2024

Balance of Performance
SRO GT4 CARS
TRACKS D

BALANCE OF PERFORMANCE FOR :

Tracks D

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 organisers 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.

Decisions taken by the SRO GT Bureau 01/05/2024

Balance of Performance
SRO GT4 CARS
TRACKS D

Make	Model	Min Weight kg	BOP Ballast kg	Total weight	Ride Height Front	BOP extra mm	Ride Height Rear	BOP Extra mm	Comments
Aston Martin	Vantage AMR GT4 EVO	1475	+45	1520	93	+15	102	+10	*MAP Restricted 3 ECU BOP 2024
BMW	G82 M4 GT4	1480	+20	1500	138,90	+16,10	149,50	+10,50	MAP 4 LT +1 ECU BOP 10/2022
Mercedes	AMG GT4	1400	+85	1485	93	+15	96	+0	POWER LEVEL 3 ECU BOP 2020
Toyota	GR SUPRA GT4	1360	+20	1380	175	+5	175	+0	Blue Power Stick V2 ECU BOP 2021
Toyota	GR Supra GT4 EVO	1370	+30	1400	165	+15	165	+5	Silver Power Stick ECU BOP 2023

Remarks :
-Additional BOP Ballast must be installed according to the GT4 Technical Regulations
-ECU BOP maps are saved in the dataloggers for scrutineering.
- GT4 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.
- Engine reference data (iA, Lambda, Fuel inj, Cam In/Out, airbox pressure) is the one 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.
- Turbo cars without adaptable pboost , identified by * in the BOP sheet, need to add +15kg per 20 mbar ambient pressure delta under 1010mbar, this means + 15 kg at Patmo of 990mb, +30 kg at Patmo of 970 mbar and +45 kg at Patmo of 950 mbar
- BMW M4 GT4 G82 adapt at Patmo via LT. Reference is 1000 mbar, -1 LT must be applied per -20 mbar Patmo, this means -1 LT at Patmo of 980mb, -2 LT at Patmo of 960 mbar and -3 LT at Patmo of 940 mbar.

Decisions taken by the SRO GT Bureau 01/05/2024