

2020 TCR TECHNICAL BULLETIN no. 12 / 2020-09-10

This decision is with immediate application and valid until further notice.

TCR BoP & Certified Cars (Modifications in bold):

Brand	Model	ECU Type & Power Level	Target Racing Weight	Assigned Ballast	Minimum Racing Weight	Ground Clearance
Alfa-Romeo	Giulietta Veloce TCR	M5	1265 kg	- 10kg	1255 kg	70 mm
Alfa-Romeo	Giulietta RF TCR	M6	1265 kg	- 10kg	1255 kg	70 mm
Audi	RS3 LMS SEQ	R5	1265 kg	- 10kg	1255 kg	60 mm
Audi	RS3 LMS DSG	R6	1230 kg	+ 20kg	1250 kg	70 mm
Cupra	TCR SEQ	R5	1265 kg	- 10kg	1255 kg	60 mm
Cupra	TCR DSG	R6	1230 kg	+ 0kg	1230 kg	70 mm
Cupra	Leon Competición TCR	C5	1265 kg	+ 40kg	1305 kg	70 mm
Honda	Civic FK2 TCR	M5	1265 kg	+ 0kg	1265 kg	70 mm
Honda	Civic FK7 TCR	M5	1265 kg	+ 40kg	1305 kg	70 mm
Honda	Civic FK7 TCR	C5	1265 kg	+ 40kg	1305 kg	70 mm
Hyundai	i30 N TCR	M3	1265 kg	+ 40kg	1305 kg	90 mm
Hyundai	i30 N TCR	C3	1265 kg	+ 40kg	1305 kg	90 mm
Hyundai	Veloster N TCR	M3	1265 kg	+ 50kg	1315 kg	90 mm
KIA	Cee'd TCR	M5	1265 kg	- 10kg	1255 kg	70 mm
Lada	Vesta Sport TCR	M5	1265 kg	+ 40kg	1305 kg	80 mm
Lada	Vesta TCR	M5	1265 kg	+ 10kg	1275 kg	70 mm
Lynk&Co	03 TCR	M4	1265 kg	+ 60kg	1325 kg	80 mm
Lynk&Co	03 TCR	C4	1265 kg	+ 60kg	1325 kg	80 mm
MG	6 XPOWER TCR	M5	1265 kg	+ 0kg	1265 kg	80 mm
Opel	Astra TCR	M6	1265 kg	+ 10kg	1275 kg	70 mm
Peugeot	308 TCR	M6	1265 kg	- 10kg	1255 kg	70 mm
Peugeot	308 Racing Cup	M6	1225 kg	- 10kg	1215 kg	70 mm
Renault	Mégane RS TCR	M5	1265 kg	- 10kg	1255 kg	60 mm
Subaru	STI TCR	M6	1265 kg	- 10kg	1255 kg	70 mm
VW	Golf GTI TCR SEQ	R5	1265 kg	- 10kg	1255 kg	60 mm
VW	Golf GTI TCR DSG	R6	1230 kg	+ 0kg	1230 kg	70 mm

BoP for ENDURANCE races only (Modifications in bold):

Brand	Model	ECU Type & Power Level	Endurance Target Racing Weight	Assigned Ballast	Endurance Minimum Weight	Ground Clearance
Alfa-Romeo	Giulietta Veloce TCR	M5	1250 kg	- 5kg	1245 kg	70 mm
Alfa-Romeo	Giulietta RF TCR	M6	1250 kg	- 5kg	1245 kg	70 mm
Audi	RS3 LMS SEQ	R5	1250 kg	- 5kg	1245 kg	60 mm
Audi	RS3 LMS DSG	R6	1240 kg	+ 10kg	1250 kg	70 mm
Cupra	TCR SEQ	R5	1250 kg	- 5kg	1245 kg	60 mm
Cupra	TCR DSG	R6	1240 kg	+ 0kg	1240 kg	70 mm
Cupra	Leon Competición TCR	C5	1250 kg	+ 20kg	1270 kg	70 mm
Honda	Civic FK2 TCR	M5	1250 kg	+ 0kg	1250 kg	70 mm
Honda	Civic FK7 TCR	M5	1250 kg	+ 20kg	1270 kg	70 mm
Honda	Civic FK7 TCR	C5	1250 kg	+ 20kg	1270 kg	70 mm
Hyundai	i30 N TCR	M3	1250 kg	+ 20kg	1270 kg	90 mm
Hyundai	i30 N TCR	C3	1250 kg	+ 20kg	1270 kg	90 mm
Hyundai	Veloster N TCR	M3	1250 kg	+ 25kg	1275 kg	90 mm
KIA	Cee'd TCR	M5	1250 kg	- 5kg	1245 kg	70 mm
Lada	Vesta Sport TCR	M5	1250 kg	+ 20kg	1270 kg	80 mm
Lada	Vesta TCR	M5	1250 kg	+ 5kg	1255 kg	70 mm
Lynk&Co	03 TCR	M4	1250 kg	+ 30kg	1280 kg	80 mm
Lynk&Co	03 TCR	C4	1250 kg	+ 30kg	1280 kg	80 mm
MG	6 XPOWER TCR	M5	1250 kg	+ 0kg	1250 kg	80 mm
Opel	Astra TCR	M6	1250 kg	+ 5kg	1255 kg	70 mm
Peugeot	308 TCR	M6	1250 kg	- 5kg	1245 kg	70 mm
Peugeot	308 Racing Cup	M6	1210 kg	- 5kg	1205 kg	70 mm
Renault	Mégane RS TCR	M5	1250 kg	- 5kg	1245 kg	60 mm
Subaru	STI TCR	M6	1250 kg	- 5kg	1245 kg	70 mm
VW	Golf GTI TCR SEQ	R5	1250 kg	- 5kg	1245 kg	60 mm
VW	Golf GTI TCR DSG	R6	1240 kg	+ 0kg	1240 kg	70 mm

¹Endurance Target Racing Weight is car's generic dry weight without driver.

²Endurance 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		Giulietta Veloce TCR	Limit Support Points		
			<i>fEngRpm</i>	<i>pManifold</i>	<i>rLambda</i>
Engine		FPT	4200	2460	0.84
ECU Make (Type)		Life Racing (Motorsport)	4450	2485	0.83
Gearbox		any	4700	2630	0.83
ECU Type & Power Level		M5	4950	2715	0.84
Calibration File		AL-FPT-M5-S-S_1-1-1.lrc	5200	2715	0.83
Calibration File (with ABS)		AL-FPT-M5-S-E_1-1-1.lrc	5450	2720	0.82
Correction [mbar/°C]		1	5700	2725	0.81
Checksum	crcHigh	61840	5950	2720	0.80
	crcLow	49503	6200	2720	0.81
			6450	2705	0.81
<i>units: [1/min] for fEngRpm, [mbar] for pManifold</i>			6700	2680	0.82
			6950	2750	0.82
			7100	2750	0.82
			7200	2700	-

Alfa Romeo		Giulietta RF TCR	Limit Support Points		
			<i>fEngRpm</i>	<i>pManifold</i>	<i>rLambda</i>
Engine		FPT	4200	2455	0.84
ECU Make (Type)		Life Racing (Motorsport)	4450	2495	0.84
Gearbox		any	4700	2645	0.84
ECU Type & Power Level		M6	4950	2715	0.84
Calibration File		AL-FPT-M6-S-S_1-1-1.lrc	5200	2720	0.84
Correction [mbar/°C]		1	5450	2720	0.84
Checksum	crcHigh	62477	5700	2720	0.82
	crcLow	54836	5950	2725	0.82
			6200	2725	0.82
<i>units: [1/min] for fEngRpm, [mbar] for pManifold</i>			6450	2725	0.82
			6700	2720	0.81
			6950	2725	0.80
			7100	2725	0.80
			7200	2660	-

Audi, Cupra, VW

Audi	RS3 LMS SEQ	Limit Support Points		
		fEngRpm	pManifold	rLambda
Cupra	Cupra TCR SEQ			
VW	Golf GTI TCR SEQ	3800	2355	-
		4050	2355	-
Engine	EA888Evo3	4300	2290	-
ECU Make (Type)	Continental (Roadcar)	4550	2315	-
Gearbox	Sadev	4800	2425	-
ECU Type & Power Level	R5	5050	2550	-
Calibration File	-	5300	2715	-
Correction [mbar/°C]	9	5550	2725	-
Checksum	5F6906259AJ	5800	2705	-
		6050	2660	-
<i>units: [1/min] for fEngRpm, [mbar] for pManifold</i>		6300	2580	-
		6550	2480	-
		6700	2430	-
		6800	2390	-

Audi	RS3 LMS DSG	Limit Support Points		
		fEngRpm	pManifold	rLambda
Cupra	Cupra TCR DSG			
VW	Golf GTI TCR DSG	4000	2450	-
		4250	2450	-
Engine	EA888Evo3	4500	2450	-
ECU Make (Type)	Continental (Roadcar)	4750	2450	-
Gearbox	DSG	5000	2450	-
ECU Type & Power Level	R6	5250	2540	-
Calibration File	-	5500	2630	-
Correction [mbar/°C]	5	5750	2640	-
Checksum	5F6906259L	6000	2650	-
		6250	2615	-
<i>units: [1/min] for fEngRpm, [mbar] for pManifold</i>		6500	2580	-
		6750	2550	-
		6900	2540	-
		7000	2520	-

Cupra

Cupra	Leon Competición TCR		Limit Support Points		
			<i>fEngRpm</i>	<i>pManifold</i>	<i>rLambda</i>
Engine		EA888Evo4	4100	2030	0.87
ECU Make (Type)		TCR ECU (Common)	4350	2030	0.87
Gearbox		any	4600	2005	0.87
ECU Type & Power Level		C5	4850	1930	0.87
Calibration File		CU-EA888Evo4-C_1-2-0.clx	5100	1920	0.87
Correction [mbar/°C]		8	5350	2175	0.87
Checksum	crcAPP	0x6E74FF10	5600	2375	0.87
	crcPartSign	0x5A69C95F	5850	2450	0.87
	crcPartZero	0x4A8D5FBE	6100	2385	0.87
	crcPartOne	0x98FDC57A	6350	2355	0.87
			6600	2325	0.87
<i>units: [1/min] for fEngRpm, [mbar] for pManifold</i>			6850	2300	0.87
			7000	2300	0.87
			7100	1760	-

KIA

KIA	Cee'd TCR		Limit Support Points		
			<i>fEngRpm</i>	<i>pManifold</i>	<i>rLambda</i>
Engine		G4KH	3900	2430	-
ECU Make (Type)		MoTeC (Motorsport)	4150	2430	-
Gearbox		any	4400	2430	-
ECU Type & Power Level		M5	4650	2490	-
Calibration File		1502_KIA_TCR_100%_WSC_BoP_19_final	4900	2545	-
Correction [mbar/°C]		1	5150	2560	-
			5400	2570	-
<i>units: [1/min] for fEngRpm, [mbar] for pManifold</i>			5650	2665	-
			5900	2560	-
			6150	2555	-
			6400	2550	-
			6650	2540	-
			6800	2535	-
			6900	2530	-

Honda

Honda	Civic FK2 TCR	Limit Support Points		
		fEngRpm	pManifold	rLambda
Engine	K20CR	4100	2130	-
ECU Make (Type)	EFI (Motorsport)	4350	2130	-
Gearbox	any	4600	2130	-
ECU Type & Power Level	M5	4850	2200	-
Calibration File	TCR-C2.7.98+7.5	5100	2275	-
Correction [mbar/°C]	2	5350	2345	-
		5600	2415	-
<i>units: [1/min] for fEngRpm, [mbar] for pManifold</i>		5850	2480	-
		6100	2550	-
		6350	2545	-
		6600	2540	-
		6850	2455	-
		7000	2430	-
		7100	2370	-

Honda	Civic FK7 TCR	Limit Support Points		
		fEngRpm	pManifold	rLambda
Engine	K20CRE	4000	2170	0.87
ECU Make (Type)	MoTeC (Motorsport)	4250	2170	0.87
Gearbox	XTRAC	4500	2155	0.87
ECU Type & Power Level	M5	4750	2115	0.87
Calibration File	HO-K20CRE-M5-X-S_1-1-0.m1pkg	5000	2195	0.87
Calibration File (with ABS)	HO-K20CRE-M5-X-E_1-1-0.m1pkg	5250	2340	0.87
Correction [mbar/°C]	10	5500	2500	0.87
		5750	2550	0.87
Engine	K20CRE	6000	2540	0.87
ECU Make (Type)	MoTeC (Motorsport)	6250	2500	0.87
Gearbox	Sadev	6500	2420	0.87
ECU Type & Power Level	M5	6750	2380	0.87
Calibration File	HO-K20CRE-M5-S-S_1-1-0.m1pkg	6900	2370	0.86
Calibration File (with ABS)	HO-K20CRE-M5-S-E_1-1-0.m1pkg	7000	2045	-
Correction [mbar/°C]	10			

Honda

Honda	Civic FK7 TCR		Limit Support Points		
			<i>fEngRpm</i>	<i>pManifold</i>	<i>rLambda</i>
Engine		K20CRE	4000	2195	0.87
ECU Make (Type)		TCR ECU (Common)	4250	2195	0.87
Gearbox		any	4500	2195	0.87
ECU Type & Power Level		C5	4750	2140	0.87
Calibration File		HO-FK7_2020-1-0.clx	5000	2205	0.87
Correction [mbar/°C]		10	5250	2375	0.87
Checksum	crcAPP	0x6E74FF10	5500	2485	0.87
	crcPartSign	0x5A69C95F	5750	2535	0.87
	crcPartZero	0x7F5CFC04	6000	2510	0.87
	crcPartOne	0xEE732B65	6250	2460	0.87
			6500	2390	0.87
<i>units: [1/min] for fEngRpm, [mbar] for pManifold</i>			6750	2335	0.87
			6900	2275	0.87
			7000	2010	-

Hyundai

Hyundai	i30 N TCR	Limit Support Points		
Hyundai	Veloster N TCR	<i>fEngRpm</i>	<i>pManifold</i>	<i>rLambda</i>
		4000	1990	0.90
Engine	Theta2G4KHA	4250	2000	0.88
ECU Make (Type)	Life Racing (Motorsport)	4500	2015	0.86
Gearbox	any	4750	2035	0.86
ECU Type & Power Level	M3	5000	2065	0.85
Calibration File	HY-Theta2G4KHA-M3_1-1-0.lrc	5250	2210	0.84
Calibration File (with ABS)	HY-Theta2G4KHA-M3-X-E_1-1-0.lrc	5500	2440	0.82
Correction [mbar/°C]	10	5750	2255	0.82
Checksum	crcHigh 29316	6000	2245	0.83
	crcLow 34932	6250	2235	0.82
		6500	2215	0.82
<i>units: [1/min] for fEngRpm, [mbar] for pManifold</i>		6750	2210	0.82
		6900	2210	0.85
		7000	1695	-

Hyundai	i30 N TCR	Limit Support Points		
Hyundai	Veloster N TCR	<i>fEngRpm</i>	<i>pManifold</i>	<i>rLambda</i>
		4000	1850	0.90
Engine	Theta2G4KHA	4250	1850	0.88
ECU Make (Type)	TCR ECU (Common)	4500	1850	0.86
Gearbox	any	4750	1855	0.86
ECU Type & Power Level	C3	5000	2035	0.85
Calibration File	HY-Theta2G4KHA-C_1-1-0.clx	5250	2260	0.84
Correction [mbar/°C]	5	5500	2415	0.82
Checksum	crcAPP 0x6E74FF10	5750	2410	0.82
	crcPartSign 0x5A69C95F	6000	2275	0.83
	crcPartZero 0xE0CC6224	6250	2225	0.82
	crcPartOne 0x220015E5	6500	2165	0.82
<i>units: [1/min] for fEngRpm, [mbar] for pManifold</i>		6750	2165	0.82
		6900	1105	0.85
		7000	1095	-

Lada

Lada	Vesta Sport TCR		Limit Support Points		
			<i>fEngRpm</i>	<i>pManifold</i>	<i>rLambda</i>
Engine	M5P404		3900	2130	0.80
ECU Make (Type)	Marelli (Motorsport)		4150	2125	0.80
Gearbox	any		4400	2130	0.80
ECU Type & Power Level	M5		4650	2145	0.79
Calibration File	LA-VestaSport-M_2020-1-0.clx		4900	2220	0.79
Correction [mbar/°C]	2		5150	2385	0.78
Checksum	crcEEP1	52803	5400	2515	0.78
	crcEEP2	26594	5650	2670	0.78
	crcAPP1	36452	5900	2685	0.78
	crcAPP2	372	6150	2605	0.78
			6400	2510	0.78
<i>units: [1/min] for fEngRpm, [mbar] for pManifold</i>			6650	2430	0.78
			6800	2430	0.78
			6900	2360	-

Lada	Vesta TCR		Limit Support Points		
			<i>fEngRpm</i>	<i>pManifold</i>	<i>rLambda</i>
Engine	M5P404		3750	2230	-
ECU Make (Type)	Marelli (Motorsport)		4000	2230	-
Gearbox	any		4250	2230	-
ECU Type & Power Level	M5		4500	2250	-
Calibration File	SRG_MMGEN_14X_12.10.1.3		4750	2270	-
Correction [mbar/°C]	2		5000	2320	-
Checksum	crcEEP	0xfc35a13a	5250	2370	-
	crcAPP	0x2bec88a	5500	2435	-
			5750	2500	-
<i>units: [1/min] for fEngRpm, [mbar] for pManifold</i>			6000	2460	-
			6250	2420	-
			6500	2260	-
			6650	2230	-
			6750	2360	-

Lynk&Co

Lynk&Co	03 TCR		Limit Support Points		
			fEngRpm	pManifold	rLambda
Engine		B4204T27	4200	2420	-
ECU Make (Type)		MoTeC (Motorsport)	4450	2420	-
Gearbox		any	4700	2420	-
ECU Type & Power Level		M4	4950	2435	-
Calibration File		LynkCo 03 TCR Engine Custom ECU 97% v2.02	5200	2450	-
Correction [mbar/°C]		4	5450	2460	-
			5700	2470	-
<i>units: [1/min] for fEngRpm, [mbar] for pManifold</i>			5950	2470	-
			6200	2470	-
			6450	2480	-
			6700	2490	-
			6950	2470	-
			7100	2460	-
			7200	2440	-

Lynk&Co	03 TCR		Limit Support Points		
			fEngRpm	pManifold	rLambda
Engine		B4204T27	4000	2470	0.81
ECU Make (Type)		TCR ECU (Common)	4250	2470	0.81
Gearbox		any	4500	2470	0.81
ECU Type & Power Level		C4	4750	2490	0.81
Calibration File		20_LY-03-19_1_1.clx	5000	2530	0.81
Correction [mbar/°C]		9	5250	2530	0.81
Checksum	crcAPP	0x6E74FF10	5500	2545	0.80
	crcPartSign	0x5A69C95F	5750	2525	0.79
	crcPartZero	0x218107F6	6000	2525	0.79
	crcPartOne	0x342A430F	6250	2525	0.79
			6500	2480	0.79
<i>units: [1/min] for fEngRpm, [mbar] for pManifold</i>			6750	2410	0.79
			6900	2350	0.79
			7000	2310	-

MG

MG	6 XPOWER TCR	Limit Support Points		
		<i>fEngRpm</i>	<i>pManifold</i>	<i>rLambda</i>
Engine	SAICNLE	4400	2130	-
ECU Make (Type)	Marelli (Motorsport)	4650	2130	-
Gearbox	any	4900	2130	-
ECU Type & Power Level	M5	5150	2130	-
Calibration File	MG6_SRG_MAP_Dyno231019_BoP_101	5400	2130	-
Correction [mbar/°C]	0	5650	2135	-
Checksum	0x3fe3a46e	5900	2140	-
		6150	2165	-
<i>units: [1/min] for fEngRpm, [mbar] for pManifold</i>		6400	2190	-
		6650	2190	-
		6900	2190	-
		7150	2190	-
		7300	2190	-
		7400	2190	-

Opel

Opel	Astra TCR		Limit Support Points		
			<i>fEngRpm</i>	<i>pManifold</i>	<i>rLambda</i>
Engine		B20NFT LHU	3900	2300	-
ECU Make (Type)		Marelli (Motorsport)	4150	2300	-
Gearbox		Sadev	4400	2300	-
ECU Type & Power Level		M6	4650	2370	-
Calibration File		12.7.3.32_BOP_2019_201prozent_final	4900	2465	-
Correction [mbar/°C]		2	5150	2565	-
Checksum		0x08afd417	5400	2620	-
			5650	2615	-
			5900	2610	-
			6150	2565	-
			6400	2520	-
			6650	2390	-
			6800	2370	-
			6900	2260	-

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

Peugeot

Peugeot	308 TCR		Limit Support Points		
			fEngRpm	pManifold	rLambda
Engine	EP6FDTR		4250	2495	0.78
ECU Make (Type)	Marelli (Motorsport)		4500	2495	0.77
Gearbox	any		4750	2560	0.75
ECU Type & Power Level	M6		5000	2480	0.82
Calibration File	PE-308-M6_2020-1-0.clx		5250	2385	0.87
Correction [mbar/°C]	8		5500	2450	0.82
Checksum	crcFirm1	38630	5750	2670	0.79
	crcFirm2	3096	6000	2890	0.75
	crcCalib1	42534	6250	2910	0.76
	crcCalib2	34464	6500	2855	0.77
			6750	2840	0.77
<i>units: [1/min] for fEngRpm, [mbar] for pManifold</i>			7000	2795	0.78
			7150	2795	0.84
			7250	2060	-

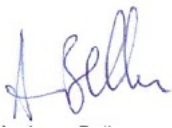
Peugeot	308 Racing Cup		Limit Support Points		
			fEngRpm	pManifold	rLambda
Engine	EP6FDTR		4100	2630	-
ECU Make (Type)	Marelli (Motorsport)		4350	2630	-
Gearbox	any		4600	2630	-
ECU Type & Power Level	M6		4850	2640	-
Calibration File	TCR_121030_VSCC_1025_BOP_2019		5100	2650	-
Correction [mbar/°C]	1		5350	2660	-
Checksum	0x2d56713d		5600	2670	-
			5850	2715	-
<i>units: [1/min] for fEngRpm, [mbar] for pManifold</i>			6100	2760	-
			6350	2770	-
			6600	2780	-
			6850	2725	-
			7000	2710	-
			7100	2670	-

Renault

Renault	Mégane RS TCR	Limit Support Points		
		fEngRpm	pManifold	rLambda
Engine	M5PTCE	4350	2725	0.87
ECU Make (Type)	Bosch (Motorsport)	4600	2770	0.86
Gearbox	any	4850	2785	0.85
ECU Type & Power Level	M5	5100	2785	0.84
Calibration File	RE-Megane-M5_2020-1-0.s19	5350	2830	0.83
Correction [mbar/°C]	5	5600	2820	0.81
		5850	2840	0.79
<i>units: [1/min] for fEngRpm, [mbar] for pManifold</i>		6100	2840	0.78
		6350	2890	0.77
		6600	2910	0.77
		6850	2900	0.77
		7100	2860	0.77
		7250	2825	0.77
		7350	2770	-

Subaru

Subaru	STI TCR	Limit Support Points		
		fEngRpm	pManifold	rLambda
Engine	EJ20	4200	2345	-
ECU Make (Type)	MoTeC (Motorsport)	4450	2345	-
Gearbox	any	4700	2345	-
ECU Type & Power Level	M6	4950	2400	-
Calibration File	Subaru_STI_TCR_2019_BoP_102	5200	2450	-
Correction [mbar/°C]	2	5450	2600	-
		5700	2750	-
<i>units: [1/min] for fEngRpm, [mbar] for pManifold</i>		5950	2725	-
		6200	2700	-
		6450	2600	-
		6700	2500	-
		6950	2450	-
		7100	2440	-
		7200	2400	-



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