

**TCR TECHNICAL BULLETIN no. 05-2022**
**07/06/2022**

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

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
FIAT	Tipo TCR	M
Honda	Civic FK2 TCR	M
Honda	Civic FK7 TCR	M
Honda	Civic FK7 TCR	C
Hyundai	Elantra TCR	C
Hyundai	i30 N TCR	M
Hyundai	i30 N TCR	C
Hyundai	Veloster N TCR	M
Kia	Cee'd TCR	M
Lada	Vesta Sport TCR	M
Lada	Vesta TCR	M
<b>Lada</b>	<b>Vesta NG TCR</b>	<b>C</b>
Lynk&Co	Lynk&Co 03 TCR	M
Lynk&Co	Lynk&Co 03 TCR	C
MG	6 XPOWER TCR	M
Opel (Holden / Vauxhall)	Astra TCR	M
Peugeot	308 TCR	M
Peugeot	308 Racing Cup	M
Renault	Megane RS TCR	M
Subaru	STI TCR	M
VW	Golf GTI TCR SEQ	R
VW	Golf GTI TCR DSG	R

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

**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	70 mm
Audi	RS3 LMS DSG	R6	1230 kg	+ 20kg	1250 kg	70 mm
Audi	RS3 LMS TCR	C5	1265 kg	+ 0kg	1265 kg	70 mm
Cupra	TCR SEQ	R5	1265 kg	+ 0kg	1265 kg	70 mm
Cupra	TCR DSG	R6	1230 kg	+ 0kg	1230 kg	70 mm
Cupra	Leon Competición TCR	C5	1265 kg	+ 0kg	1265 kg	70 mm
Fiat	Tipo TCR	M5	1265 kg	+ 0kg	1265 kg	80 mm
Honda	Civic FK2 TCR	M5	1265 kg	- 20kg	1245 kg	70 mm
Honda	Civic FK7 TCR	M5	1265 kg	+ 20kg	1285 kg	70 mm
Honda	Civic FK7 TCR	C5	1265 kg	+ 20kg	1285 kg	70 mm
Hyundai	i30 N TCR	M4	1265 kg	+ 40kg	1305 kg	90 mm
Hyundai	i30 N TCR	C4	1265 kg	+ 40kg	1305 kg	90 mm
Hyundai	Veloster N TCR	M4	1265 kg	+ 50kg	1315 kg	90 mm
Hyundai	Elantra N TCR	C4	1265 kg	+ 10kg	1275 kg	80 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
<b>Lada</b>	<b>Vesta NG TCR</b>	<b>C5</b>	<b>1265 kg</b>	<b>+ 40kg</b>	<b>1305 kg</b>	<b>80 mm</b>
Lynk&Co	03 TCR	M4	1265 kg	+ 50kg	1315 kg	80 mm
Lynk&Co	03 TCR	C4	1265 kg	+ 50kg	1315 kg	80 mm
MG	6 XPOWER TCR	M5	1265 kg	+ 0kg	1265 kg	70 mm
Opel / Holden / Vauxhall	Astra TCR	M6	1265 kg	+ 0kg	1265 kg	70 mm
Peugeot	308 TCR	M6	1265 kg	- 40kg	1225 kg	70 mm
Peugeot	308 Racing Cup	M6	1225 kg	- 10kg	1215 kg	70 mm
Renault	Mégane RS TCR	M5	1265 kg	- 20kg	1245 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	- 10kg	1220 kg	60 mm

\* R: Road Car ECU, M: Motorsport ECU, C: Common ECU; numbers 1 to 6 denominate power levels as per Technical Regulation

**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	70 mm
Audi	RS3 LMS DSG	R6	1240 kg	+ 10kg	1250 kg	70 mm
Audi	RS3 LMS TCR	C5	1250 kg	+ 0kg	1250 kg	70 mm
Cupra	TCR SEQ	R5	1250 kg	+ 0kg	1250 kg	70 mm
Cupra	TCR DSG	R6	1240 kg	+ 0kg	1240 kg	70 mm
Cupra	Leon Competición TCR	C5	1250 kg	+ 0kg	1250 kg	70 mm
Fiat	Tipo TCR	M5	1250 kg	+ 0kg	1250 kg	80 mm
Honda	Civic FK2 TCR	M5	1250 kg	- 10kg	1240 kg	70 mm
Honda	Civic FK7 TCR	M5	1250 kg	+ 10kg	1260 kg	70 mm
Honda	Civic FK7 TCR	C5	1250 kg	+ 10kg	1260 kg	70 mm
Hyundai	i30 N TCR	M4	1250 kg	+ 20kg	1270 kg	90 mm
Hyundai	i30 N TCR	C4	1250 kg	+ 20kg	1270 kg	90 mm
Hyundai	Veloster N TCR	M4	1250 kg	+ 25kg	1275 kg	90 mm
Hyundai	Elantra N TCR	C4	1250 kg	+ 5kg	1255 kg	80 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
<b>Lada</b>	<b>Vesta NG TCR</b>	<b>C5</b>	<b>1250 kg</b>	<b>+ 20kg</b>	<b>1270 kg</b>	<b>80 mm</b>
Lynk&Co	03 TCR	M4	1250 kg	+ 25kg	1275 kg	80 mm
Lynk&Co	03 TCR	C4	1250 kg	+ 25kg	1275 kg	80 mm
MG	6 XPOWER TCR	M5	1250 kg	+ 0kg	1250 kg	70 mm
Opel / Holden / Vauxhall	Astra TCR	M6	1250 kg	+ 0kg	1250 kg	70 mm
Peugeot	308 TCR	M6	1250 kg	- 20kg	1230 kg	70 mm
Peugeot	308 Racing Cup	M6	1210 kg	- 5kg	1205 kg	70 mm
Renault	Mégane RS TCR	M5	1250 kg	- 10kg	1240 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	- 5kg	1235 kg	60 mm

<sup>1</sup>Endurance Target Racing Weight is car's generic dry weight without driver.

<sup>2</sup>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		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_1.1.2.lrc	5200	2715	0.83
Calibration File (with ABS)		AL-FPT-M5-S-E_1.1.2.lrc	5450	2720	0.82
Correction [mbar/°C]		1	5700	2725	0.81
Checksum	crcHigh	42313	5950	2720	0.80
	crcLow	49756	6200	2720	0.81
Checksum (with ABS)	crcHigh	44909	6450	2705	0.81
	crcLow	49742	6700	2680	0.82
			6950	2750	0.82
<i>units: [1/min] for fEngRpm, [mbar] for pManifold</i>			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_1.1.2.lrc	5200	2720	0.84
Calibration File (with ABS)		AL-FPT-M6-S-E_1.1.2.lrc	5450	2720	0.84
Correction [mbar/°C]		1	5700	2720	0.82
Checksum	crcHigh	42953	5950	2725	0.82
	crcLow	55089	6200	2725	0.82
Checksum (with ABS)	crcHigh	45549	6450	2725	0.82
	crcLow	55075	6700	2720	0.81
			6950	2725	0.80
<i>units: [1/min] for fEngRpm, [mbar] for pManifold</i>			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	-

Audi	RS3 LMS TCR		Limit Support Points		
			<i>fEngRpm</i>	<i>pManifold</i>	<i>rLambda</i>
Cupra	Leon Competición TCR				
			4000	2090	0.87
Engine		EA888Evo4	4250	2110	0.87
ECU Make (Type)		TCR ECU (Common)	4500	2100	0.87
Gearbox		Hewland	4750	2105	0.87
ECU Type & Power Level		C5	5000	2155	0.87
Calibration File		CU-EA888Evo4-C-H-S_1.3.8.clx	5250	2345	0.87
Correction [mbar/°C]		8	5500	2475	0.87
Checksum	crcAPP	0x93ED6C14	5750	2530	0.87
	crcPartSign	0xD7581A9B	6000	2485	0.87
	crcPartZero	0xB694BA1	6250	2470	0.87
	crcPartOne	0x52EDB14D	6500	2415	0.87
			6750	2365	0.87
<i>units: [1/min] for fEngRpm, [mbar] for pManifold</i>			6900	2270	0.87
			7000	2240	-

Audi	RS3 LMS TCR		Limit Support Points		
			<i>fEngRpm</i>	<i>pManifold</i>	<i>rLambda</i>
Engine		EA888Evo4	4000	2090	0.87
ECU Make (Type)		TCR ECU (Common)	4250	2110	0.87
Gearbox		Sadev	4500	2100	0.87
ECU Type & Power Level		C5	4750	2105	0.87
Calibration File		CU-EA888Evo4-C-S-S_1.3.8.clx	5000	2155	0.87
Correction [mbar/°C]		8	5250	2345	0.87
Checksum	crcAPP	0x93ED6C14	5500	2475	0.87
	crcPartSign	0xD7581A9B	5750	2530	0.87
	crcPartZero	0x65782AB1	6000	2485	0.87
	crcPartOne	0xA3DF973A	6250	2470	0.87
			6500	2415	0.87
			6750	2365	0.87
<i>units: [1/min] for fEngRpm, [mbar] for pManifold</i>			6900	2270	0.87
			7000	2240	-

**Fiat**

Fiat	Tipo TCR	Limit Support Points		
		<i>fEngRpm</i>	<i>pManifold</i>	<i>rLambda</i>
Engine	ZAR949VP	4000	2385	-
ECU Make (Type)	MoTeC (Motorsport)	4250	2370	-
Gearbox	any	4500	2385	-
ECU Type & Power Level	M5	4750	2290	-
Calibration File	FI-Tipo-M0-S-S_1.1.0.m1pkg	5000	2275	-
Correction [mbar/°C]	10	5250	2340	-
		5500	2490	-
<i>units: [1/min] for fEngRpm, [mbar] for pManifold</i>		5750	2590	-
		6000	2580	-
		6250	2665	-
		6500	2625	-
		6750	2630	-
		6900	2525	-
		7000	2510	-

## 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	any	4500	2155	0.87
ECU Type & Power Level	M5	4750	2115	0.87
Calibration File	HO-K20CRE-M-0-0_1.1.3.m1pkg	5000	2195	0.87
Correction [mbar/°C]	10	5250	2340	0.87
		5500	2500	0.87
<i>units: [1/min] for fEngRpm, [mbar] for pManifold</i>		5750	2550	0.87
		6000	2540	0.87
		6250	2500	0.87
		6500	2420	0.87
		6750	2380	0.87
		6900	2370	0.86
		7000	2045	-



Honda		Civic FK7 TCR	Limit Support Points		
			<i>fEngRpm</i>	<i>pManifold</i>	<i>rLambda</i>
Engine		K20CRE	4000	2205	0.84
ECU Make (Type)		TCR ECU (Common)	4250	2205	0.84
Gearbox		any	4500	2195	0.84
ECU Type & Power Level		C5	4750	2170	0.84
Calibration File		HO-K20CRE-C-X-S_1.2.1.clx	5000	2205	0.84
Correction [mbar/°C]		10	5250	2315	0.84
Checksum	crcAPP	0x93ED6C14	5500	2485	0.84
	crcPartSign	0xD7581A9B	5750	2565	0.85
	crcPartZero	0xD4013930	6000	2585	0.85
	crcPartOne	0x24E6A2A6	6250	2525	0.82
			6500	2455	0.82
<i>units: [1/min] for fEngRpm, [mbar] for pManifold</i>			6750	2425	0.82
			6900	2325	0.81
			7000	2030	-

## Hyundai

Hyundai	i30 N TCR		Limit Support Points		
Hyundai	Veloster N TCR		<i>fEngRpm</i>	<i>pManifold</i>	<i>rLambda</i>
			4000	2065	0.90
Engine		Theta2G4KHA	4250	2065	0.88
ECU Make (Type)		Life Racing (Motorsport)	4500	2065	0.86
Gearbox		any	4750	2090	0.86
ECU Type & Power Level		M4	5000	2195	0.85
Calibration File		HY-Theta2G4KHA-M4-X-S_1.1.2.lrc	5250	2360	0.84
Calibration File (with ABS)		HY-Theta2G4KHA-M4-X-E_1.1.2.lrc	5500	2570	0.82
Correction [mbar/°C]		10	5750	2390	0.82
Checksum	crcHigh	57087	6000	2385	0.83
	crcLow	50211	6250	2400	0.82
Checksum (with ABS)	crcHigh	64626	6500	<b>2380</b>	0.82
	crcLow	50197	6750	2370	0.82
			6900	2370	0.85
<i>units: [1/min] for fEngRpm, [mbar] for pManifold</i>			7000	1705	-

Hyundai	i30 N TCR		Limit Support Points		
Hyundai	Veloster N TCR		<i>fEngRpm</i>	<i>pManifold</i>	<i>rLambda</i>
			4000	1920	0.90
Engine		Theta2G4KHA	4250	1920	0.90
ECU Make (Type)		TCR ECU (Common)	4500	1920	0.90
Gearbox		any	4750	1950	0.90
ECU Type & Power Level		C4	5000	2105	0.89
Calibration File		HY-Theta2G4KHA-C-X-S_1-3-1.clx	5250	2315	0.85
Correction [mbar/°C]		5	5500	2475	0.84
Checksum	crcAPP	0x6E74FF10	5750	2475	0.83
	crcPartSign	0x5A69C95F	6000	2430	0.82
	crcPartZero	0x88951EB1	6250	2390	0.82
	crcPartOne	0xBB3E4051	6500	2345	0.82
			6750	2305	0.82
<i>units: [1/min] for fEngRpm, [mbar] for pManifold</i>			6900	2220	0.82
			7000	2045	-

Hyundai		Elantra N TCR		Limit Support Points		
				<i>fEngRpm</i>	<i>pManifold</i>	<i>rLambda</i>
Engine		Theta2G4KHN		4000	2090	0.86
ECU Make (Type)		TCR ECU (Common)		4250	2100	0.86
Gearbox		any		4500	2105	0.86
ECU Type & Power Level		C4		4750	2175	0.86
Calibration File		HY-Theta2G4KHN-C-X-S_1.3.1.clx		5000	2260	0.86
Correction [mbar/°C]		8		5250	2330	0.86
Checksum	crcAPP	0x93ED6C14		5500	2390	0.86
	crcPartSign	0xD7581A9B		5750	2410	0.86
	crcPartZero	0xB373A174		6000	2370	0.86
	crcPartOne	0X5878BD20		6250	2300	0.86
				6500	2245	0.84
<i>units: [1/min] for fEngRpm, [mbar] for pManifold</i>				6750	2180	0.84
				6900	2035	0.84
				7000	2000	-

**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	-

## Lada

Lada	Vesta Sport TCR		Limit Support Points		
			fEngRpm	pManifold	rLambda
Engine		M5P404	3900	2165	0.79
ECU Make (Type)		Marelli (Motorsport)	4150	2165	0.79
Gearbox		any	4400	2155	0.79
ECU Type & Power Level		M5	4650	2190	0.79
Calibration File		LA-M5P404-M-S-S_1.1.0.clx	4900	2240	0.78
Correction [mbar/°C]		6	5150	2310	0.78
Checksum	crcEEP1	39470	5400	2465	0.77
	crcEEP2	64745	5650	2655	0.77
	crcAPP1	19289	5900	2675	0.76
	crcAPP2	6949	6150	2685	0.76
			6400	2645	0.76
<i>units: [1/min] for fEngRpm, [mbar] for pManifold</i>			6650	2585	0.76
			6800	2520	0.76
			6900	2490	-

Lada	Vesta TCR		Limit Support Points		
			fEngRpm	pManifold	rLambda
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]		6	5000	2320	-
Checksum	crcEEP	0xfc35a13a	5250	2370	-
	crcAPP	0x2bebc88a	5500	2435	-
			5750	2500	-
<i>units: [1/min] for fEngRpm, [mbar] for pManifold</i>			6000	2460	-
			6250	2420	-
			6500	2260	-
			6650	2230	-
			6750	2470	-

Lada	Vesta NG		Limit Support Points		
			<i>fEngRpm</i>	<i>pManifold</i>	<i>rLambda</i>
Engine		<b>M5P</b>	<b>4000</b>	<b>1985</b>	-
ECU Make (Type)		<b>TCR ECU (Common)</b>	<b>4250</b>	<b>2010</b>	-
Gearbox		<b>any</b>	<b>4500</b>	<b>2020</b>	-
ECU Type & Power Level		<b>C5</b>	<b>4750</b>	<b>2020</b>	-
Calibration File		<b>LA-M5P-C-3-S_1.1.1.clx</b>	<b>5000</b>	<b>2080</b>	-
Correction [mbar/°C]		<b>9</b>	<b>5250</b>	<b>2245</b>	-
Checksum	crcAPP	<b>0x93ED6C14</b>	<b>5500</b>	<b>2515</b>	-
	crcPartSign	<b>0xD7581A9B</b>	<b>5750</b>	<b>2755</b>	-
	crcPartZero	<b>0xB246309B</b>	<b>6000</b>	<b>2750</b>	-
	crcPartOne	<b>0x24CC0903</b>	<b>6250</b>	<b>2715</b>	-
			<b>6500</b>	<b>2660</b>	-
<i>units: [1/min] for fEngRpm, [mbar] for pManifold</i>			<b>6750</b>	<b>2655</b>	-
			<b>6900</b>	<b>2650</b>	-
			<b>7000</b>	<b>2590</b>	-

## 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		LY-B4204T27-C-X-S_1.1.7.clx	5000	2530	0.81
Correction [mbar/°C]		9	5250	2530	0.81
Checksum	crcAPP	0x93ED6C14	5500	2545	0.80
	crcPartSign	0xD7581A9B	5750	2525	0.79
	crcPartZero	0x85DEB706	6000	2525	0.79
	crcPartOne	0xD76EEB1C	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	3600	2140	0.84
ECU Make (Type)		Marelli (Motorsport)	3850	2200	0.84
Gearbox		any	4100	2265	0.84
ECU Type & Power Level		M5	4350	2300	0.84
Calibration File		MG-SAICNLE-M-S-S_1-1-0.clx	4600	2320	0.84
Correction [mbar/°C]		3	4850	2345	0.84
Checksum	crcEEP1	11388	5100	2385	0.84
	crcEEP2	42442	5350	2400	0.84
	crcAPP1	54219	5600	2395	0.84
	crcAPP2	29701	5850	2390	0.84
			6100	2385	0.84
<i>units: [1/min] for fEngRpm, [mbar] for pManifold</i>			6350	2335	0.84
			6500	2265	0.84
			6600	2240	-



## Opel / Holden / Vauxhall

Opel / Holden / Vauxhall	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	any	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	-
	<i>units: [1/min] for fEngRpm, [mbar] for pManifold</i>	5900	2610	-
		6150	2565	-
		6400	2520	-
		6650	2390	-
		6800	2370	-
		6900	2260	-

## Peugeot

Peugeot	308 TCR		Limit Support Points		
			fEngRpm	pManifold	rLambda
Engine		EP6FDTR	4250	2580	0.78
ECU Make (Type)		Marelli (Motorsport)	4500	2600	0.77
Gearbox		any	4750	2640	0.75
ECU Type & Power Level		M6	5000	2590	0.82
Calibration File		PE-308-M6_2020-1-0.clx	5250	2505	0.87
Correction [mbar/°C]		8	5500	2530	0.82
Checksum	crcFirm1	38630	5750	2690	0.79
	crcFirm2	3096	6000	2840	0.75
	crcCalib1	42534	6250	2800	0.76
	crcCalib2	34464	6500	2810	0.77
			6750	2795	0.77
<i>units: [1/min] for fEngRpm, [mbar] for pManifold</i>			7000	2785	0.78
			7150	2685	0.84
			7250	2185	-

Peugeot	308 Racing Cup		Limit Support Points		
			fEngRpm	pManifold	rLambda
Engine		EP6FDTR	4000	2840	-
ECU Make (Type)		Marelli (Motorsport)	4250	2840	-
Gearbox		any	4500	2840	-
ECU Type & Power Level		M5	4750	2840	-
Calibration File		T9CUP_SP98_12.8.4.8_18S24_100%.pta	5000	2840	-
Correction [mbar/°C]		1	5250	2850	-
Checksum	crcAPP	0x5B17AD1B	5500	2860	-
	crcEEP	0xDEE2825D	5750	2835	-
			6000	2800	-
<i>units: [1/min] for fEngRpm, [mbar] for pManifold</i>			6250	2740	-
			6500	2690	-
			6750	2575	-
			6900	2480	-
			7000	2460	-

## Renault


Renault	Mégane RS TCR	Limit Support Points		
		<i>fEngRpm</i>	<i>pManifold</i>	<i>rLambda</i>
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		
		<i>fEngRpm</i>	<i>pManifold</i>	<i>rLambda</i>
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	-

## List of Changes

- Hyundai i30N TCR Imposed Parameters: Adjust Limit Support Point
- Hyundai Veloster N TCR Imposed Parameters: Adjust Limit Support Point
- Lada Vesta NG TCR: BoP allocation



Andreas Bellu / WSC Technical Director