2020 TCR TECHNICAL BULLETIN no. 1

Date: 2020, January 8th

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

TCR BoP for Endurance Events:

Decisions regarding Endurance Events (races of minimum 2 hours):

- BoP rating defined by the 2019 TCR Bulletin no. 14 is valid with the exceptions defined below.
- Car's Endurance Minimum Weight (EMW) is defined without driver.
- Endurance Minimum Weight is calculated as follows:
  - TCR Target Racing Weight
  - minus BoP Ballast (modifications written in bold)
  - minus 80kg for a theorical average driver
  - plus 20kg for endurance VOs.
- Compensation Weight for TCR Endurance Competitions will not be applied.
- Telemetry systems working on public mobile phone network are allowed. Technical Delegates will have access to the telemetry system and data.
- Only certified refuelling systems are allowed.
- ABS is allowed as per Art. 3.8 of the TCR Technical Regulations.

TCR Car Models	Engine Power Level [%]	Target Racing Weight [kg]	BoP Ballast [kg]	Endurance Minimum Weight [kg]	Ride Height [mm]
Alfa Romeo Giulietta RF TCR	100.0	1265	-60	1145	70
Alfa Romeo Giulietta Veloce TCR	100.0	1265	-40	1165	80
Audi RS 3 LMS SEQ	100.0	1265	**-40**	1165	70
Audi RS 3 LMS DSG	102.5	1230	**-10**	1160	80
Cupra TCR SEQ	100.0	1265	-40	1165	70
Cupra TCR DSG	102.5	1230	-10	1160	70
Honda Civic FK7 TCR	100.0	1265	20	1225	80
Honda Civic FK2 TCR	100.0	1265	-20	1185	70
Hyundai i30 N TCR	97.5	1265	20	1225	90
Hyundai Veloster N TCR	97.5	1265	20	1225	90
KIA Cee'd TCR	100.0	1265	-40	1165	70
Lada Vesta TCR	100.0	1265	-10	1195	70
Lada Vesta Sport TCR	100.0	1265	20	1225	80
Lynk&Co 03 TCR	97.5	1265	40	1245	80
MG6 XPOWER TCR	100.0	1265	0	1205	80
Opel Astra TCR	102.5	1265	0	1205	70
Peugeot 308 TCR	102.5	1265	-30	1175	70
Peugeot 308 Racing Cup TCR	102.5	1225	-60	1105	70
Renault Mégane RS TCR	100.0	1265	-30	1175	60
Subaru STI TCR	102.5	1265	-60	1145	70
VW Golf GTI TCR SEQ	100.0	1265	-40	1165	70
VW Golf GTI TCR DSG	102.5	1230	-10	1160	70

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.

Andreas Bellu / WSC Technical Director

Annex: Imposed parameters for certified software

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Imposed parameters for Certified Software

Model	Power level [%]	SW Name	SW ID or Checksum	Check Method	Rev limiter	Max Boost Pressure [mbar] / engine revs								Correct. [mbar/°C]
Alfa Romeo Giulietta RF TCR	100	1.639_TCR2019_BOP_100 %	34882/10107	CAN hi/lo	7100	Revs	4600	5100	5600	6100	6600	7100		1
						Boost	2500	2705	2700	2700	2680	2660		
Alfa Romeo Veloce TCR	100	1.639_TCR2019_BOP_100 %	34882/10107	CAN hi/lo	7100	Revs	4600	5100	5600	6100	6600	7100		1
						Boost	2500	2705	2700	2700	2680	2660		
Audi RS 3 LMS SEQ	100	5F6906259AB	CVN	OBD	7000	Revs	4500	5000	5500	6000	6500	7000		9
						Boost	2380	2510	2620	2630	2400	2250		
Audi RS 3 LMS DSG	102.5	5F6906259L	CVN	OBD	7000	Revs	4500	5000	5500	6000	6500	7000		5
						Boost	2450	2450	2630	2650	2580	2520		
CUPRA SEQ	100	5F6906259AB	CVN	OBD	7000	Revs	4500	5000	5500	6000	6500	7000		9
						Boost	2380	2510	2620	2630	2400	2250		
CUPRA DSG	102.5	5F6906259L	CVN	OBD	7000	Revs	4500	5000	5500	6000	6500	7000		5
						Boost	2450	2450	2630	2650	2580	2520		
Honda Civic FK7 TCR	100	TCR_H70_1.02.35	100	ECAL	7500	Revs	4500	5000	5500	6000	6500	7000	7500	9
						Boost	2310	2370	2490	2490	2410	2290	2290	
Honda Civic FK2 TCR	100	TCR-V2.7.98+7.5	100	ECAL	7100	Revs	4700	5200	5700	6200	6700	7100		2
						Boost	2130	2275	2415	2550	2540	2370		
Hyundai i30N TCR	97.5	V1.639.X1_i30_TCR2019_ 975_v3	44078/2007	CAN hi/lo	7000	Revs	4500	5000	5500	6000	6500	7000		2
						Boost	2200	2255	2320	2340	2340	2520		
Hyundai Veloster	97.5	V1.639.X1_i30_TCR2019_ 975_v3	44078/2007	CAN hi/lo	7000	Revs	4500	5000	5500	6000	6500	7000		2
						Boost	2200	2255	2320	2340	2340	2520		
KIA Cee'd TCR	100	1502_KIA_TCR_100%_WS C_BoP_19_final	Firmware ID	Motec tool	6900	Revs	4400	4900	5400	5900	6400	6900		1
						Boost	2430	2545	2570	2560	2550	2530		
Lada Vesta Sport TCR	100	SRG_MMGEN_14X8_12.1 0.4.3a	0x4A2D1916 /0x8E640174	Marelli	6750	Revs	4200	4700	5200	5700	6200	6750		2
						Boost	2150	2340	2580	2780	2675	2540		
Lada Vesta TCR	100	SRG_MMGEN_14X_12.10. 1.3	0xFC35A13A/ 0x2BEBC88A	Marelli	6750	Revs	4200	4700	5200	5700	6200	6750		2
						Boost	2230	2270	2370	2500	2420	2200		

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Model	Power level [%]	SW Name	SW ID or Checksum	Check Method	Rev limiter	Max Boost Pressure [mbar] / engine revs								Correct. [mbar/°C]
LynK&Co 03 TCR	97.5	LynkCo 03 TCR Engine Custom ECU 97% v2.02	Firmware ID	Motec tool	7200	Revs	4700	5200	5700	6200	6700	7200		4
						Boost	2370	2400	2420	2420	2440	2390		
Opel Astra TCR	102.5	12.7.3.32_BOP_2019_102prozent_final	0x08AFD417	CAN hi	6900	Revs	4400	4900	5400	5900	6400	6900		2
						Boost	2300	2465	2620	2610	2520	2260		
MG6 XPOWER TCR	100.0	MG6_SRG_MAP_Dyno231019_BoP_101	0x3FE3A46E	CAN hi/lo	7400	Revs	4900	5400	5900	6400	6900	7400		2
						Boost	2130	2130	2140	2190	2190	2190		
Peugeot 308 TCR	102.5	TCR_121030_VSCC_102.5_BOP_2019	0x87752a77	MapSel 1	7300	Revs	4800	5300	5800	6300	6800	7300		1
						Boost	2530	2630	2750	2810	2810	2800		
Peugeot 308 Racing cup	102.5	TCR_121030_VSCC_102.5_BOP_2019	0x2d56713d	MapSel 2	7100	Revs	4600	5100	5600	6100	6600	7100		1
						Boost	2630	2650	2670	2760	2780	2670		
Renault Mégane RS TCR	100	059_Megane TCR VMTCR_6900 rpm_100%	BOP_26-04-19_100	A2L	6900	Revs	4400	4900	5400	5900	6400	6900		1
						Boost	2630	2630	2660	2660	2660	2660		
Subaru STI TCR	102.5	Subaru_STI_TCR_2019_BoP_102	Firmware ID	Motec tool	7200	Revs	4700	5200	5700	6200	6700	7200		2
						Boost	2345	2450	2750	2700	2500	2400		
VW Golf GTI TCR SEQ	100	5F6906259AB	CVN	OBD	7000	Revs	4500	5000	5500	6000	6500	7000		9
						Boost	2380	2510	2620	2630	2400	2250		
VW Golf GTI TCR DSG	102.5	5F6906259L	CVN	OBD	7000	Revs	4500	5000	5500	6000	6500	7000		5
						Boost	2450	2450	2630	2650	2580	2520		
VW Golf GTI TCR C-ECU	100	SRG140_VAG_12.11.1.9_BOP_100%_2019_Final_2.clx	A4846272	Marelli	7200	Revs	4700	5200	5700	6200	6700	7200		*3*
						Boost	2510	2510	2485	2440	2340	1380		

Boost pressure will be monitored and interpreted according to the TCR Technical Bulletin no. 4 / 2019 **by moving car**. Values between reference points are piece wise cubic interpolated. The given values are referenced to scrutineering data channel Tmanifold at 40°C.
It is not allowed in any circumstances to exceed the highest listed boost pressure values.
The boost pressure below the 2500rpm monitored area is limited to the value at the lowest rpm of the reference window.
Accepted limit violation:

- 0,3% of the total valid data points with the highest values in regard to the low over boost limits (30mbar < p Boost < 100mbar relative to the corresponding Max Boost Pressure)
- 0,1% of the total valid data points with the highest values in regard to the high over boost limits (p Boost ≥ 100mbar relative to to the corresponding Max Boost Pressure)

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