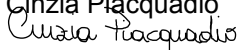


TCR TECHNICAL BULLETIN - no. 11-2025**04/09/2025****OBJECT:**

1. *Honda Civic FK7 TCR* - Change of Assigned Ballast to +10 kg (-10 kg)
2. *Hyundai i30 N TCR* - Change of Assigned Ballast to +10 kg (-10 kg)
3. *Lynk&Co 03 FL TCR* - Change of Assigned Ballast to +20 kg (+20 kg)
4. *Peugeot P51 308 TCR* - Change of Calibration File about throttle control, steering wheel sensor, FCY and Pit Limiter parameters

TCR Certified Car List:

BRAND	MODEL	ECU Type*
Alfa Romeo	Giulietta Veloce TCR	M
Alfa Romeo	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
FIAT	Tipo TCR	M
Honda	Civic FK2 TCR	M
Honda	Civic FK7 TCR	M
Honda	Civic FK7 TCR	C
Honda	Civic FL5 TCR	C
Hyundai	i30 N TCR	M
Hyundai	i30 N TCR	C
Hyundai	Veloster N TCR	M
Hyundai	Elantra N TCR	C
Kia	Cee'd TCR	M
Lada	Vesta Sport TCR	M
Lada	Vesta TCR	M
Lada	Vesta NG TCR	C
Lada	Vesta NG Evo TCR	C
Lynk&Co	03 TCR	M
Lynk&Co	03 TCR	C
Lynk&Co	03 FL TCR	C
MG**	5 XPOWER TCR	C
MG	6 XPOWER TCR	M
Opel (Holden / Vauxhall)	Astra TCR	M
Peugeot	308 TCR	M
Peugeot	308 Racing Cup	M
Peugeot	P51 308 TCR	C
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		

Performance Analysis Responsible - **Cinzia Piacquadio**


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	80 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	- 10kg	1255 kg	70 mm
Cupra	Leon VZ TCR	C5	1265 kg	- 10kg	1255 kg	70 mm
Fiat	Tipo TCR	M5	1265 kg	- 10kg	1255 kg	70 mm
Honda	Civic FK2 TCR	M5	1265 kg	- 20kg	1245 kg	70 mm
Honda	Civic FK7 TCR	M5	1265 kg	+ 10kg	1275 kg	70 mm
Honda	Civic FK7 TCR	C5	1265 kg	+ 10kg	1275 kg	70 mm
Honda	Civic FL5 TCR	C5	1265 kg	+ 10kg	1275 kg	80 mm
Hyundai	i30 N TCR	M4	1265 kg	+ 10kg	1275 kg	80 mm
Hyundai	i30 N TCR	C4	1265 kg	+ 10kg	1275 kg	80 mm
Hyundai	Veloster N TCR	M4	1265 kg	+ 30kg	1295 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
Lada	Vesta NG TCR	C5	1265 kg	0kg	1265 kg	80 mm
Lada	Vesta NG Evo TCR	C5	1265 kg	0kg	1265 kg	80 mm
Lynk&Co	03 TCR	M5	1265 kg	+ 10kg	1275 kg	80 mm
Lynk&Co	03 TCR	C5	1265 kg	+ 10kg	1275 kg	80 mm
Lynk&Co	03 FL TCR	C4	1265 kg	+ 20kg	1285 kg	80 mm
MG	5 XPOWER TCR	C5	1265 kg	0kg	1265 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	- 50kg	1215 kg	70 mm
Peugeot	308 Racing Cup	M6	1225 kg	- 30kg	1195 kg	60 mm
Peugeot	P51 308 TCR	C6	1265 kg	0kg	1265 kg	80 mm
Renault	Mégane RS TCR	M5	1265 kg	- 10kg	1255 kg	70 mm
Subaru	WRX STI TCR	M6	1265 kg	- 10kg	1255 kg	70 mm
Toyota	Corolla GRS TCR	C6	1265 kg	+ 10kg	1275 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	Target Racing Weight	Assigned Ballast	Minimum Racing Weight	Ground Clearance
Alfa-Romeo	Giulietta Veloce TCR	M5	1210 kg	- 5kg	1205 kg	70 mm
Alfa-Romeo	Giulietta RF TCR	M6	1210 kg	- 5kg	1205 kg	70 mm
Audi	RS3 LMS SEQ	R5	1210 kg	- 5kg	1205 kg	70 mm
Audi	RS3 LMS DSG	R6	1185 kg	+ 10kg	1195 kg	70 mm
Audi	RS3 LMS TCR	C5	1210 kg	0kg	1210 kg	80 mm
Cupra	TCR SEQ	R5	1210 kg	0kg	1210 kg	70 mm
Cupra	TCR DSG	R6	1185 kg	0kg	1185 kg	70 mm
Cupra	Leon Competición TCR	C5	1210 kg	- 5kg	1205 kg	70 mm
Cupra	Leon VZ TCR	C5	1210 kg	- 5kg	1205 kg	70 mm
Fiat	Tipo TCR	M5	1210 kg	- 5kg	1205 kg	70 mm
Honda	Civic FK2 TCR	M5	1210 kg	- 10kg	1200 kg	70 mm
Honda	Civic FK7 TCR	M5	1210 kg	+ 5kg	1215 kg	70 mm
Honda	Civic FK7 TCR	C5	1210 kg	+ 5kg	1215 kg	70 mm
Honda	Civic FL5 TCR	C5	1210 kg	+ 5kg	1215 kg	80 mm
Hyundai	i30 N TCR	M4	1210 kg	+ 5kg	1215 kg	80 mm
Hyundai	i30 N TCR	C4	1210 kg	+ 5kg	1215 kg	80 mm
Hyundai	Veloster N TCR	M4	1210 kg	+ 15kg	1225 kg	90 mm
Hyundai	Elantra N TCR	C4	1210 kg	+ 5kg	1215 kg	80 mm
KIA	Cee'd TCR	M5	1210 kg	- 5kg	1205 kg	70 mm
Lada	Vesta Sport TCR	M5	1210 kg	+ 20kg	1230 kg	80 mm
Lada	Vesta TCR	M5	1210 kg	+ 5kg	1215 kg	70 mm
Lada	Vesta NG TCR	C5	1210 kg	0kg	1210 kg	80 mm
Lada	Vesta NG Evo TCR	C5	1210 kg	0kg	1210 kg	80 mm
Lynk&Co	03 TCR	M5	1210 kg	+ 5kg	1215 kg	80 mm
Lynk&Co	03 TCR	C5	1210 kg	+ 5kg	1215 kg	80 mm
Lynk&Co	03 FL TCR	C4	1210 kg	+ 10kg	1220 kg	80 mm
MG	5 XPOWER TCR	C5	1210 kg	0kg	1210 kg	80 mm
MG	6 XPOWER TCR	M5	1210 kg	0kg	1210 kg	70 mm
Opel / Holden / Vauxhall	Astra TCR	M6	1210 kg	0kg	1210 kg	70 mm
Peugeot	308 TCR	M6	1210 kg	- 25kg	1185 kg	70 mm
Peugeot	308 Racing Cup	M6	1185 kg	- 15kg	1170 kg	60 mm
Peugeot	P51 308 TCR	C6	1210 kg	0kg	1210 kg	80 mm
Renault	Mégane RS TCR	M5	1210 kg	- 5kg	1205 kg	70 mm
Subaru	WRX STI TCR	M6	1210 kg	- 5kg	1205 kg	70 mm
Toyota	Corolla GRS TCR	C6	1210 kg	+ 5kg	1215 kg	70 mm
VW	Golf GTI TCR SEQ	R5	1210 kg	- 5kg	1205 kg	60 mm
VW	Golf GTI TCR DSG	R6	1185 kg	- 5kg	1180 kg	60 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

Alfa Romeo	Giulietta Veloce TCR	
Engine		FPT
ECU Make (Type)		Life Racing (Motorsport)
Gearbox		Sadev
ECU Type & Power Level		M5
Calibration File		AL-FPT-M5-S-S_1.1.2.lrc
Calibration File (with ABS)		AL-FPT-M5-S-E_1.1.2.lrc
Checksum	crcHigh	42313
	crcLow	49756
Checksum (with ABS)	crcHigh	44909
	crcLow	49742

Alfa Romeo	Giulietta RF TCR	
Engine		FPT
ECU Make (Type)		Life Racing (Motorsport)
Gearbox		Sadev
ECU Type & Power Level		M6
Calibration File		AL-FPT-M6-S-S_1.1.2.lrc
Calibration File (with ABS)		AL-FPT-M6-S-E_1.1.2.lrc
Checksum	crcHigh	42953
	crcLow	55089
Checksum (with ABS)	crcHigh	45549
	crcLow	55075



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		R5
Calibration File		-
Checksum		5F6906259AJ

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		R6
Calibration File		-
Checksum		5F6906259L

Audi	RS3 LMS TCR	
Cupra	Leon Competición TCR	
Engine		EA888Evo4
ECU Make (Type)		TCR ECU (Common)
Gearbox		Hewland
ECU Type & Power Level		C5
Calibration File		CU-EA888Evo4-C-H-S_3.0.0.clx
Checksum	crcAPP	0x1316AA95
	crcPartSign	0xE0613BD1
	crcPartZero	0x518CA0AD
	crcPartOne	0x7FA3D055

Audi	RS3 LMS TCR	
Engine		EA888Evo4
ECU Make (Type)		TCR ECU (Common)
Gearbox		Sadev
ECU Type & Power Level		C5
Calibration File		CU-EA888Evo4-C-S-S_3.0.0.clx
Checksum	crcAPP	0x1316AA95
	crcPartSign	0xE0613BD1
	crcPartZero	0xCA93AC8
	crcPartOne	0x87651B28

Cupra	Leon VZ TCR	
Engine		EA888Evo4
ECU Make (Type)		TCR ECU (Common)
Gearbox		Hewland
ECU Type & Power Level		C5
Calibration File		CU-EA888Evo4-C-H-S-VZ_3.1.1.clx
Checksum	crcAPP	0x1316AA95
	crcPartSign	0xE0613BD1
	crcPartZero	0xD250127
	crcPartOne	0x95CDF7E3

Cupra	Leon VZ TCR	
Engine		EA888Evo4
ECU Make (Type)		TCR ECU (Common)
Gearbox		Sadev
ECU Type & Power Level		C5
Calibration File		CU-EA888Evo4-C-S-S-VZ_3.1.1.clx
Checksum	crcAPP	0x1316AA95
	crcPartSign	0xE0613BD1
	crcPartZero	0x3D641581
	crcPartOne	0x8E909E14



Fiat

Fiat	Tipo TCR	
Engine		ZAR949VP
ECU Make (Type)		MoTeC (Motorsport)
Gearbox		Sadev
ECU Type & Power Level		M5
Calibration File		FI-Tipo-M0-S-S_1.1.0.m1pkg

Honda

Honda	Civic FK2 TCR	
Engine		K20CR
ECU Make (Type)		EFI (Motorsport)
Gearbox		Sadev
ECU Type & Power Level		M5
Calibration File		TCR-C2.7.98+7.5

Honda	Civic FK7 TCR	
Engine		K20CRE
ECU Make (Type)		MoTeC (Motorsport)
Gearbox		Sadev, Xtrac
ECU Type & Power Level		M5
Calibration File		HO-K20CRE-M-0-0_1.2.0.m1pkg

Honda	Civic FK7 TCR	
Engine		K20CRE
ECU Make (Type)		TCR ECU (Common)
Gearbox		Sadev, Xtrac
ECU Type & Power Level		C5
Calibration File		HO-K20CRE-C-X-S_1.3.0.clx
Checksum	crcAPP	0x93ED6C14
	crcPartSign	0xD7581A9B
	crcPartZero	0xBA27FF29
	crcPartOne	0xF8B178FD



Honda		Civic FL5 TCR
Engine		K20CRL5
ECU Make (Type)		TCR ECU (Common)
Gearbox		Sadev
ECU Type & Power Level		C5
Calibration File		HO-K20CRL5-C-S-S_3.0.0.clx
Checksum	crcAPP	0x1316AA95
	crcPartSign	0xE0613BD1
	crcPartZero	0xC8817F4
	crcPartOne	0xD24A665D

Hyundai

Hyundai	i30 N TCR	
Hyundai	Veloster N TCR	
Engine		Theta2G4KHA
ECU Make (Type)		Life Racing (Motorsport)
Gearbox		Xtrac
ECU Type & Power Level		M4
Calibration File		HY-Theta2G4KHA-M4-X-S_1.1.2.lrc
Calibration File (with ABS)		HY-Theta2G4KHA-M4-X-E_1.1.2.lrc
Checksum	crcHigh	57087
	crcLow	50211
Checksum (with ABS)	crcHigh	64626
	crcLow	50197

Hyundai	i30 N TCR	
Engine		Theta2G4KHA
ECU Make (Type)		TCR ECU (Common)
Gearbox		Xtrac
ECU Type & Power Level		C4
Calibration File		HY-Theta2G4KHA-C-X-S_1-3-1.clx
Checksum	crcAPP	0x6E74FF10
	crcPartSign	0x5A69C95F
	crcPartZero	0x88951EB1
	crcPartOne	0xBB3E4051



Hyundai		Elantra N TCR
Engine		Theta2G4KHN
ECU Make (Type)		TCR ECU (Common)
Gearbox		Xtrac
ECU Type & Power Level		C4
Calibration File		HY-Theta2G4KHN-C-X-S_3.1.0.clx
Checksum	crcAPP	0x1316AA95
	crcPartSign	0xE0613BD1
	crcPartZero	0x7601D234
	crcPartOne	0x2804ABD3

KIA

KIA	Cee'd TCR	
Engine		G4KH
ECU Make (Type)		MoTeC (Motorsport)
Gearbox		3mo
ECU Type & Power Level		M5
Calibration File		1502_KIA_TCR_100%_WSC_BoP_19_final

Lada

Lada	Vesta Sport TCR	
Engine		M5P404
ECU Make (Type)		Marelli (Motorsport)
Gearbox		Sadev
ECU Type & Power Level		M5
Calibration File		LA-M5P404-M-S-S_1.1.0.clx
Checksum	crcEEP1	39470
	crcEEP2	64745
	crcAPP1	19289
	crcAPP2	6949

Lada	Vesta TCR	
Engine		M5P404
ECU Make (Type)		Marelli (Motorsport)
Gearbox		Sadev
ECU Type & Power Level		M5
Calibration File		SRG_MMGEN_14X_12.10.1.3
Checksum	crcEEP	0xfc35a13a
	crcAPP	0x2bebc88a

Lada	Vesta NG TCR	
Engine		M5P
ECU Make (Type)		TCR ECU (Common)
Gearbox		3mo
ECU Type & Power Level		C5
Calibration File		LA-M5P-C-3-S-16.47_3.0.0.clx
Checksum	crcAPP	0x1316AA95
	crcPartSign	0xE0613BD1
	crcPartZero	0x58EBBA02
	crcPartOne	0x4ECF69A3



Lada	Vesta NG TCR	
Engine		M5P
ECU Make (Type)		TCR ECU (Common)
Gearbox		3mo + VO323
ECU Type & Power Level		C5
Calibration File		LA-M5P-C-3-S-18.51_3.0.0.clx
Checksum	crcAPP	0x1316AA95
	crcPartSign	0xE0613BD1
	crcPartZero	0x6D9C856E
	crcPartOne	0x411FB243

Lada	Vesta NG Evo TCR	
Engine		M5P
ECU Make (Type)		TCR ECU (Common)
Gearbox		3mo
ECU Type & Power Level		C5
Calibration File		LA-M5P-C-3-S-16.47_3.1.2-Evo
Checksum	crcAPP	0x1316AA95
	crcPartSign	0xE0613BD1
	crcPartZero	0x9D076DBF
	crcPartOne	0x841CA481



Lynk&Co

Lynk&Co	03 TCR	
Engine		B4204T27
ECU Make (Type)		MoTeC (Motorsport)
Gearbox		Xtrac
ECU Type & Power Level		M5
Calibration File		LynkCo 03 TCR Engine Custom ECU 100% v2

Lynk&Co	03 TCR	
Engine		B4204T27
ECU Make (Type)		TCR ECU (Common)
Gearbox		Xtrac
ECU Type & Power Level		C5
Calibration File		LY-B4204T27-C-X-S_3.0.0.clx
Checksum	crcAPP	0x1316AA95
	crcPartSign	0xE0613BD1
	crcPartZero	0x3E083821
	crcPartOne	0x46302573

Lynk&Co	03 FL TCR	
Engine		B4204T57
ECU Make (Type)		TCR ECU (Common)
Gearbox		Xtrac
ECU Type & Power Level		C4
Calibration File		LY-B4204T57-C-X-S_3.0.0.clx
Checksum	crcAPP	0x1316AA95
	crcPartSign	0xE0613BD1
	crcPartZero	0x7CCC6DB2
	crcPartOne	0xE964CAA7

MG

MG	5 XPOWER TCR	
Engine	SAICNF2 HP	
ECU Make (Type)	TCR ECU (Common)	
Gearbox	Xtrac	
ECU Type & Power Level	C5	
Calibration File	MG-SAICNF2HP-C-X-S_1.1.0.clx	

MG	6 XPOWER TCR	
Engine	SAICNLE	
ECU Make (Type)	Marelli (Motorsport)	
Gearbox	Xtrac	
ECU Type & Power Level	M5	
Calibration File	MG-SAICNLE-M-S-S_1-1-0.clx	
Checksum	crcEEP1	11388
	crcEEP2	42442
	crcAPP1	54219
	crcAPP2	29701

Opel / Holden / Vauxhall

Opel / Holden / Vauxhall	Astra TCR	
Engine		OP-B20NFT
ECU Make (Type)		Marelli (Motorsport)
Gearbox		Sadev
ECU Type & Power Level		M6
Calibration File		OP-B20NFT-M6-S-S_1.1.0.clx
Checksum	crcAPP1	49229
	crcAPP2	49062
	crcEEP1	2945
	crcEEP2	60244

Peugeot

Peugeot	308 TCR	
Engine		EP6FDTR
ECU Make (Type)		Marelli (Motorsport)
Gearbox		Sadev
ECU Type & Power Level		M6
Calibration File		PE-308-M6_2020-1-0.clx
Checksum	crcFirm1	38630
	crcFirm2	3096
	crcCalib1	42534
	crcCalib2	34464

Peugeot	308 Racing Cup	
Engine		EP6FDTR
ECU Make (Type)		Marelli (Motorsport)
Gearbox		Sadev
ECU Type & Power Level		M6
Calibration File		T9CUP_SP98_12.8.4.8_18S24_100%.pta
Checksum	crcAPP	0x5B17AD1B
	crcEEP	0xDEE2825D

Peugeot	P51 308 TCR	
Engine		EP6FDTRP51
ECU Make (Type)		TCR ECU (Common)
Gearbox		Holinger
ECU Type & Power Level		C6
Calibration File		PE-EP6FDTRP51-C-HO-S_3.0.1.clx
Checksum	crcAPP	0x1316AA95
	crcPartSign	0xE0613BD1
	crcPartZero	0xBC80B7EC
	crcPartOne	0x214AA21F

Renault

Renault	Mégane RS TCR	
Engine		M5PTCE
ECU Make (Type)		Bosch (Motorsport)
Gearbox		3mo
ECU Type & Power Level		M5
Calibration File		RE-Megane-M5_2020-1-0.s19

Subaru

Subaru	STI WRX TCR	
Engine		EJ20
ECU Make (Type)		MoTeC (Motorsport)
Gearbox		Modena
ECU Type & Power Level		M6
Calibration File		Subaru_STI_TCR_2019_BoP_102

Toyota

Toyota	Corolla GRS TCR	
Engine		8ARFTS
ECU Make (Type)		TCR ECU (Common)
Gearbox		Sadev
ECU Type & Power Level		C6
Calibration File		TO-8ARFTS-C-S-S_3.0.0.clx
Checksum	crcAPP	0x1316AA95
	crcPartSign	0xE0613BD1
	crcPartZero	0x8C48AAC9
	crcPartOne	0xD229997C