

KALO RACE

KALOCSA
23-25.09.2021.



SUPPLEMENTARY REGULATION

T1, T2, T3, T4, T5, TH, SBS, CH



INDEX

Introduction.....	4
Art. 1.1 Preamble	4
Art. 1.2 Length of Selective Sections	4
Art. 1.3 Overall SS distance and total distance of the itinerary.....	4
CH category	4
Art. 1.4 Average altitude	4
Art. 1.5 Route Conditions (Selective Stages).....	4
Organisation.....	4
Art. 2.1 Championships and titles for which the Baja counts	4
Art. 2.2 Approvals.....	5
Art. 2.3 Organiser’s name, address, and contact details	5
Art. 2.4 Organising Committee	5
Art. 2.5 Stewards of the Meeting.....	5
Art. 2.6 FIA Delegates & Observer	5
Art. 2.7 Senior Officials.....	5
Art. 2.8 Location of Rally HQ and contact details	5
Programme in chronological order and locations	6
Entries.....	7
Art. 4.1 Closing date for entries	7
Art. 4.2 Entry procedure	7
Art. 4.3 Number of competitors accepted and vehicle classes	7
Art. 4.4 Entry fees/ other fees	7
Art. 4.5 Payment	8
Art. 4.6 Entry fee refunds.....	8
Insurance Cover	8
Advertising and Identification	8
Art. 6.1 Obligatory organiser’s advertising	8
Art. 7.Tyres	9
Art. 7.1.....	9
Art. 7.2.....	9
8. Fuel.....	9
Art. 8.1 Ordering procedure	9
Art. 9.1 Documents to be presented:	9
Art. 9.2 Timetable	9
Scrutineering, Sealing and Marking	10
Art. 10.3 Installation of the GPS Navigation and Safety Tracking System.....	10
Other procedures and regulations.....	10
Art. 11.1 Ceremonial start procedures and order	10



Art. 11.2 Start Area	10
Art. 11.3 Finish procedures	11
Art. 11.4 Permitted early check-in	11
Art. 11.5 Super Special Stage and QS	11
Art. 11.6 Road books delivery	11
Art. 11.7 Special procedures and activities	11
Art. 11.8 Official time used during the event	11
Art. 11.9 Electronic start procedure at the start of a Selective Section	11
Art. 11.10 Service	11
Art. 11.11 Speed Control Zones	12
Art. 11.12 Shakedown	12
Identification of officials	12
Prizes	12
Final checks / Protests / Appeals	12
Art. 14.1 Final Checks	12
Art.14.2 Protest deposit.....	13
Art. 14.3 Appeal deposit	13
1.TIME CARD PROVIDING/EXCHANGES.....	22

Appendix 1	Itinerary
Appendix 2	Names and photographs of the Competitors Relation officer(s) and their schedules
Appendix 3	Decals and positioning of supplementary advertising
Appendix 4	Extract from FIA Appendix L relating to overalls, helmets and any other safety requirements
Appendix 5	Instruction for the use of the Tracking System
Appendix 6	Instructions for the use of the car-to-car communication system
Appendix 7	Items at the organisers' discretion



1.Introduction

Name of the event: Kalo Race
Date of the event: 23-25. Sept. 2021.

Art. 1.1 Preamble

This event will be run in compliance with the FIA International Sporting Code (ISC) including appendices, the General Prescriptions applicable for all FIA Championships, the FIA Cross-Country Rally Sporting Regulations including appendices, the WADA/NADA Codes, and the FIA Anti-Doping Regulations, as amended from time to time. The National Road Traffic Regulations of the countries the event passes shall apply. Unless provided otherwise by these Supplementary Regulations, the provisions of the above Rules and Regulations shall apply.

Any modifications, amendments and/or additions to the Rules and Regulations shall be made in the form of numbered and dated bulletins. All FIA regulations can be found at <https://www.fia.com/regulations>.

The various documents will be written in Hungarian and English. In case of any discrepancy the Hungarian text will be binding.

Art. 1.2 Length of Selective Sections

Leg1: Length: 57 km
Leg2: Length: 198 km

Art. 1.3 Overall SS distance and total distance of the itinerary

T category

Number of Legs	2
Number of Sections	2
Number of Selective Sections	6
Total distance of the itinerary	316 km
Overall length of Selective Sections	255 km

CH category

Number of Legs	2
Number of Sections	2
Number of Selective Sections	6
Total distance of the itinerary	316km
Overall length of Selective Sections	154 km

Art. 1.4 Average altitude

The average altitude of the event is 1000 meter above sea level

Art. 1.5 Route Conditions (Selective Stages)

Friday, Saturday on sand, not weather dependent.

The road's: „Safety type B”

Gravel/dirt tracks	0	%
Sand	100	%
Terra	0	%
Other surfaces	0	%

2.Organisation

Art. 2.1 Championships and titles for which the Baja counts

FIA Central European Zone (CEZ) Championship and
Open Hungarian Cross-Country Rally Championship with allowed foreign participation.



Art. 2.2 Approvals

ASN registration number / Visa No.: K-0611/2021.09.10.

Approved on:2021.09.10.

Art. 2.3 Organiser's name, address, and contact details

Organiser: Vital-Sziget Kft.
Organiser's representative: Attila CSATÓ
Street/P.O. Box: Mátyás király utca 34/3.
Post code/city: H-2230, Gyömrő
Phone: +36 209718885
E-mail: kalocsatr@gmail.com

Art. 2.4 Organising Committee

Organising Committee: Mr. Attila CSATÓ
Mr. László POLGÁR
Mr. Miklós KOVÁCS

Art. 2.5 Stewards of the Meeting

	Name
Stewards of the Meeting (Chairman):	Mr. Tibor OROSZLÁN
2 nd FIA Steward	Mr. Péter FALUVÉGI
ASN Steward	Mr. Gabriel SZÁNTÓ (SK)

Art. 2.6 FIA Delegates & Observer

None.

Art. 2.7 Senior Officials

	Name
Clerk of the Course:	Mr. László POLGÁR
Secretary of the Event:	Mrs. Julianna TÖRÖK
Chief Safety Officer:	Mr. TBA
Deputy Chief Safety Officer:	Mr. TBA
Scrutineers (Chief Scrutineer):	Mr. Szabolcs SOLTI
Chief Medical Officer (CMO):	Dr. TBA
Competitors' Relations Officer (CRO):	Mrs. Marianna MAGYAR KELEMENNÉ
Chief Timekeeper	Mr. Csaba GLÜCK ChronoMoto
Press Officer:	Mr. László B. MOLNÁR
GPS evaluation	Mr. Zsolt MARTON M-Info

Art. 2.8 Location of Rally HQ and contact details

Name: **Kalocsai Tomori Pál Könyvtár**
Street: **Szent István király u. 2-6.**
Post code, city: **H-6300. Kalocsa**

Rally HQ in operation: from 23.09.2021. 08:00 to 25.09.2021. 20:00

Service parc in operation: from 23.09.2021. 10:00 to 25.09.2021. 20:00

Digital Notice Board (DNB): <https://www.terep-rallye.hu/bajnoksag/versenyek/2021-2/kalorace/>

Taking in consideration the current pandemic situation, only Digital Notice Board will work!



3. Programme in chronological order and locations

	Location:	Date:	Time:
Publishing of the supplementary regulations	https://www.terep-rallye.hu/bajnoksag/versenyek/2021-2/kalorace/	30.08.2021.	12:00
Entries open		30.08.2021	12:00
Closure date of entries		17.09.2021	18:00
Publication date of entry list		20.09.2021	08:00
Scrutineering – sealing & marking of components	SVEBO Plussz GUMISZERVIZ 6300. Kalocsa, Bátyai út 65. According to the scheduled time! From 23.09.2021!	24.09.2021	08:00-12:00
Administrative Checks	Kalocsai Tomori Pál Könyvtár 6300. Kalocsa, Szent István király u.2-6. According to the scheduled time! From 23.09.2021		08:00-12:00
Collection of Road Book	Kalocsai Tomori Pál Könyvtár 6300. Kalocsa, Szent István király u.2-6		08:00-12:00
Collection of navigation GPS and tracking system			08:00-20:00
Opening of Rally Office, Press Office	Kalocsai Tomori Pál Könyvtár 6300. Kalocsa, Szent István király u.2-6		12:00
First Stewards Meeting	Kalocsai Tomori Pál Könyvtár 6300. Kalocsa, Szent István király u.2-6 ONLINE		12:30
Briefing	https://www.terep-rallye.hu/bajnoksag/versenyek/2021-2/kalorace/		08:15-12:15
Publication of start list	All Start, Stop, Regrouping, Park Fermé 6300. Kalocsa Szent István király u. 2-6. All Service - Csillás Park 6300. Kalocsa, Alkotmány u. ONLINE		13:00
Park Fermé open			13:30
Start of the Rally- Leg 1			14:30
SS1 Start			15:00
Service A			15:30
Regrouping			17:00
SS2 Start (Challenge category also)		18:30	
Service B		20:00	
Leg 1 Finish / Parc Fermé		All Start, Stop, Regrouping, Park Fermé 6300. Kalocsa Szent István király u. 2-6. All Service - Csillás Park 6300. Kalocsa, Alkotmány u.	08:00
Publication of start list Leg2.			08:15
Leg 2 Start			09:55
SS3 Start			10:25
Service C			10:40
Regrouping			13:00
SS4 Start (Challenge category also)	13:30		
Service D	13:45		
Regrouping	15:25		
SS5 Start	15:55		
Service E	16.10		
Regrouping	17:15		
SS6 Start (Challenge category also)	Service- Csillás Park 6300. Kalocsa, Alkotmány u.	Immediate after arrival in the finish	
Race Finish / Parc Fermé			
Final scrutineering (following the marshals' instructions)		18:30*	
Publication of Provisional Classification	https://www.terep-rallye.hu/bajnoksag/versenyek/2021-2/kalorace/	19:00	
Publication of Final Classification			



Prize giving ceremony	TBA		19:30**
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*After the Stewards have declared the Classification final.

**If the covid restrictions will allow!

4.Entries

Art. 4.1 Closing date for entries

See programme in chronological order (SR Art. 3) and FIA CCRSR Art. 17

Art. 4.2 Entry procedure

Entries must be submitted in accordance with the FIA CCRSR Art. 16 – Art. 18

Submitting your entry on the following webpage:

<https://www.terep-rallye.hu/bajnoksag/versenyek/2021-2/kalorace/>. The original, duly completed and signed Entry Form must send to the following email address: kalocsatr@gmail.com

According to the FIA International Sporting Code, foreign competitors/drivers must have their ASN's permission, which should be attached to the entry form (ASN's stamp on the entry, or the ASN's written permission to take part in the competition, or the licences copies with the described permissions in them)

In addition to the completed application, it is necessary to send scan copies of licenses of competitor and drivers, scan copies of FIA technical passports (all pages, please!), scan copies of FIA homologation form for T2 category, scan copies of any other documents, at the Organizer's request related to Administrative checks.

Art. 4.3 Number of competitors accepted and vehicle classes

Art. 4.3.1 The number of competitors must be a minimum of 15 vehicles

Art. 4.3.2 Eligible cars

T1, T2, T3, T4, T5, TH-C, TH-M, Challenge, SBS

Art. 4.4 Entry fees/ other fees

4.4.1. Entry fee:

T1 – T2 – T3 – T4 – T5 – TH – SBS 520 €
Without optional advertising +100%

Challenge (shorter distance) 230 €
Without optional advertising +100%

Team Registration: 100 €

The entry fee includes:

- Additional compulsory liability insurance
- 1 Basic service plate/vehicle
- Basic service area per vehicle (50m2)
- Rent of GPS navigation and safety tracking system

4.4.2. To be paid on site!:

Deposit for GPS navigation and safety tracking system: 50 €

GPS navigation and safety tracking system **installation package- Purchase:** 50 €

or GPS navigation and safety tracking system **installation package- Rent:** 20 €

Teams with more vehicles wanting to enter to the service parc, must purchase an additional 50m 2 service area. For a Service area up to 50m 2, max 2 entry permission (service plate) can be purchased!

Extra service areas requested and the number of extra service plates has to be indicated on the Entry Form



The organiser will provide each crew with the number identification (67x17cm), rally plate, advertising stickers, which must be affixed to their car in the stated positions prior to scrutineering. Without optional advertising the Entry Fee is +100%.

7. Tyres

See Art. 10 of the FIA CCRSR. and Art. 10 of Appendix V2 of the FIA CCRSR

Art. 7.1

Not applicable.

Art. 7.2

Not applicable.

8. Fuel

All type of fuel must follow Appendix J Art. 252.9. (Art. 57 of the FIA CCRSR).

Only commercially available fuel can be used, without adding any additives.

There are only in part petrol stations along the whole track of the **Kalo Race**, therefore refuelling can be done in the service park area with the engine turned off. Having a min.4kg fire extinguisher and a plastic mat is mandatory! The entire refueling process in the service park is the sole responsibility of the team!

Art. 8.1 Ordering procedure

Not applicable.

Art. 8.2 Closing date for ordering fuel

Not applicable.

9. Administrative checks

At the administrative check is enough to appear only the driver or the co-driver, the wearing a mask is mandatory!

Art. 9.1 Documents to be presented:

In consideration of the present pandemic situation, we politely ask everybody to send scan copies of all required documents related to Administrative checks to julianna@garzonercing.com.

Make sure to bring and present the original of the documents as well:

- Competitors' licence
- Driver's and co-driver's competition licences
- Driver's and co-driver's ID cards/passports
- Driver's and co-driver's valid driving licences valid for the vehicle entered
- ASN authorisation for foreign competitors (if required)
- Completion of all details on the entry form
- Car registration papers
- FIA Technical Passport (if applicable) or ASN Passport for competitors with foreign licences
- FIA homologation form for T2 category
- Authorization from the owner of the vehicle in case is other than the driver or navigator

Art. 9.2 Timetable

See programme (SR Art. 3)

Administrative check will take place at an individually scheduled time for each crew, published on the following website: <https://www.terep-rallye.hu/bajnoksag/versenyek/2021-2/kalorace/>

Before the administrative, the GPS navigation and safety tracking system has to be collected.



10. Scrutineering, Sealing and Marking

10.1. Scrutineering, venue and time:

SVEBO PLUSZ KFT.

H-6300. KALOCSA, BÁTYAI ÚT 65.

GPS: 46°30'50" N 18°58'20" E

Cars may be presented at scrutineering by a representative of the team. Wearing a mask in mandatory! Individually scheduled time for each crew will be published on the following website:
<https://www.terep-rallye.hu/bajnoksag/versenyek/kalorace/>

Art. 10.1.1 Scrutineering, mandatory documents

- Cars' complete original FIA Homologation Document (if applicable)
- FIA Technical Passport (if applicable)
- Fully filled Scrutineering Sheet, provided by the Organizer

Art. 10.1.2 Time, schedule

TIME: **23.09.2021 & 24.09.2021** 08:15 – 12.00 By shedule!

See programme (SR Art. 3)

After Technical Scrutineering all vehicles must be set in the 24.09.2021. **Parc Fermé** up to 12:00.

Art. 10.2 Requirements at technical scrutineering:

- Vehicles must be presented with all start numbers, rally plates, and advertisements fixed properly on the designated place.
- GPS navigation and safety tracking system installed and operable
- Scrutineering Sheet- filled up
- Homologation Form, valid Technical Passport
- All items of clothing including helmets and FHR (Front Head Restraint) intended to be used, e.g. HANS devices, must be presented
- Technically corresponding and approved size fire extinguisher properly fitted in the car
- Warning triangle, medical kit. The new medical kit...etc. is not mandatory (Art.CCRSR APPIII. 1. Medical kit, 2. Survival kit)

Art. 10.3 Installation of the GPS Navigation and Safety Tracking System

All vehicles must **only** be fitted with the GPS Navigation and Safety Tracking System provided by the Organiser. You can collect them just before the Administrative check, the associated installation package can be purchased or rented.

The instruction for the use of the Tracking System is in the Appendix 3. of these Supplementary Regulation.

Returning the GPS Navigation and Safety Tracking System at the Parc Fermé, to the M-Info crew, collecting the deposit at the Rally Office.

11. Other procedures and regulations

Art. 11.1 Ceremonial start procedures and order

TBA.

Art. 11.2 Start Area

H-6300. Kakocsa, Szent István király u.2-6.

GPS: 46°31'44" N 18°58'25" E



Art. 11.3 Finish procedures

H-6300. Kakocsa, Szent István király u.2-6.
GPS: 46°31'44" N 18°58'25" E

Art. 11.4 Permitted early check-in

In case of early arrival at the end of Leg to the Parc Ferme Finish, at the time controls, competitors will not be penalized.

Art. 11.5 Super Special Stage and QS

Will not take place.

Art. 11.6 Road books delivery

Leg1: at the Administrative Check
Leg2: at the Friday evening's Parc Fermé

Art. 11.7 Special procedures and activities

Regarding to the COVID-19 epidemic, the Organizer makes the following provisions: According to the Government Decree 264/2021. (V. 21.) on protection measures to be applied during an emergency, the Organizer does not allow the public to attend the event!

The Event will run behind 'Closed Gates'!

At the event, all participants are obliged to comply with the requirements of the Government Decree as well as the hygiene requirements and social distancing of 1.5 meters! At the Rally Office max.3 pairs of competitors are allowed at a time, the use of a mask - or a closed helmet - is mandatory!

The Organizer took into account the current government decree, in case of changes, the Organizer reserves the right to amend the event.

Art. 11.7.1 Availability of participants

Participants who park their vehicles in the Parc Fermé upon passing the finish line, must remain available by phone (mobile) until the final classification have been posted.

Art. 11.7.2 Classification

The final classification will not be distributed after the event. The final classification will be published on the website on the Digital Notice Board: <https://www.terep-rallye.hu/bajnoksag/versenyek/2021-2/kalorace/>

Art. 11.8 Official time used during the event

GPS time

Art. 11.9 Electronic start procedure at the start of a Selective Section

The start of the selective section is happening based on an electric clock and lamp, connected to a false start alert system

When the car arrives at the start line, the front of the car should be positioned behind a stick placed by the marshal to define the exact start position. One minute before the start time, but not before the car has stopped in its exact position, the marshal shall remove the stick and the crew shall refer to the automatic countdown clock. Any subsequent change of the car's position until its start time is not permitted and will be reported to the Stewards.

Art. 11.10 Service

Using a min 5x4m protector groundsheet under the racing vehicles is mandatory. 1pc at least 4kg validated manual fire extinguisher is mandatory. Each service team has to ensure that after carrying out their activities on the site, they do not leave any pollutants. They will be checked by the scrutineers, and not complying will entail a 50.000HUF fine.

The Organizer calls the attention of the participants, that the Service Park is not guarded at night time!



Art. 11.10.1 Service Areas / Bivouacs

H-6300. Kalocsa Csillás Park Alkotmány u.
GPS: 46°31'45"N 18°58'12"E

Entry will be permitted to the Serviceparc only showing the Service Plates. Accompanying team cars can enter only by purchasing a 10.000HUF sticker at the Administrative Checks.

Art. 11.10.2 Flexi Service

Not applicable

Art. 11.10.3 Service allowed in Selective Section

Forbidden, except 50.1.2 and 50.1.3

Art. 11.10.4 Tyre Fitting Zone

In the serviceparc, except 50.1.2

Art. 11.10.5 Fuel and Refuelling Zone

Will not be developed

Art. 11.11 Speed Control Zones

According to Roadbook

Art. 11.12 Shakedown

TBA.

12. Identification of officials

Competitors Relation's Officer:	pink armband
Scrutineers	Blue shirt
Post Chiefs:	Red tabard
Marshals:	White or orange tabard



13. Prizes

LOCATION: TBA

TIME: 25.09.2021. 19:30

- Overall classification: 1-3 cup
- Group Classification: 1-3 cup
- Total Overall: 1-6 cup

14. Final checks / Protests / Appeals

Art. 14.1 Final Checks

LOCATION: H-6300. Kalocsa Csillás Park Alkotmány u.
GPS: 46°31'45"N 18°58'12"E

TIME: 25.09.2021. Immediate after arrival in the finish

Any teams required to undergo final checks must immediately follow the instruction of the marshals in charge, even if this prevents them from proceeding to one or more time controls (TC).

The complete original FIA homologation form, the FIA Passport and other necessary certifications must be available for final checks.



Art.14.2 Protest deposit

General:	350 €
Technical:	350 €

Art. 14.3 Appeal deposit

The appeal deposit for an international appeal is published on the FIA website:

<https://www.fia.com/international-court-appeal>

All protests and/or appeals must be lodged in accordance with Articles 13 and 15 of the FIA International Sporting Code and, where applicable, with the FIA Judicial and Disciplinary Rules.



Appendix 1.

Itinerary



KALO RACE 2021

Leg 1		2021.09.24. SATURDAY / SZOMBAT							
Sunrise 6:33								18:38	Sunset
IE/TC SS	Location	SS Maximum Time	SS Km	Liasion Km	Total Km	Target Time	1st vehicle Due		
0	Kalocsa, PF KI /OUT						13:00	Section 1	
IE/TC 1	Újmajor			5,38	5,38	0:10	13:10		
SS 1 START	ÚJMAJOR	1:00				0:05	13:15		
SS 1 FINISH	KALOCSA		28,42		33,80	(0:20)	(13:35)		
	Kalocsa Kalocsa, Service IN / Szerviz BE				39,14	0:10	(13:45)		
	SERVICE / SZERVIZ A					0:40			
IE/TC 1A	Kalocsa, Regrouping IN			6,45	40,25		(14:25)		
	GYŰJTŐ / REGROUPING								
IE/TC 1B	Kalocsa, Regrouping OUT / Gyűjtő KI						15:00	Section 2	
IE/TC 2	Bugac,			5,38	45,63	0:10	15:10		
SS 2 START	ÚJMAJOR	1:00				0:05	15:15		
SS 2 FINISH	KALOCSA		28,42		74,05	(0:20)	(15:35)		
	Kalocsa Kalocsa, Service IN / Szerviz BE				79,39	0:10	(15:45)		
	SERVICE / SZERVIZ B					2:00			
IE/TC 2A	KALOCSA, PARC FERME IN / BE			6,45	80,50	0:10	(17:55)		
Saturday Total			56,84	23,66	80,50				
			70,61%	29,39%	100%				

Leg 2		2021.09.25. SUNDAY / VASÁRNAP							
Sunrise 6:35								18:36	Sunset
IE/TC SS	Location	SS Maximum Time	SS Km	Liasion Km	Total Km	Target Time	1st vehicle Due		
IE/TC 2B	Kalocsa, PF KI /OUT						8:00	Section 3	
IE/TC 3	Foktő			2,74	2,74	0:05	8:05		
SS 3 START	FOKTŐ	1:15				0:05	8:10		
SS 3 FINISH	KALOCSA		50,16		52,90	(0:38)	(8:48)		
	Kalocsa Kalocsa, Service IN / Szerviz BE				58,24	0:10	(8:58)		
	SERVICE / SZERVIZ C					0:40			
IE/TC 3A	Kalocsa, Service OUT / Regrouping IN			6,45	59,35		(9:38)		
	GYŰJTŐ / REGROUPING								
IE/TC 3B	Kalocsa, Regrouping OUT / Gyűjtő KI						10:00	Section 4	
IE/TC 4	Foktő			2,74	62,09	0:15	10:15		
SS 4 START	FOKTŐ	1:15				0:05	10:20		
SS 4 FINISH	KALOCSA		50,16		112,25	(0:38)	(10:58)		
	Kalocsa Kalocsa, Service IN / Szerviz BE				117,59	0:10	(11:08)		
	SERVICE / SZERVIZ C					0:40			
IE/TC 4A	Kalocsa, Service OUT / Regrouping IN			6,45	118,70		(11:48)		
	GYŰJTŐ / REGROUPING								
IE/TC 4B	Kalocsa, Regrouping OUT / Gyűjtő KI						13:00	Section 5	
IE/TC 5	Kalocsa			5,72	124,42	0:10	13:10		
SS 5 START	KALOCSA	1:15				0:05	13:15		
SS 5 FINISH	FOKTŐ		48,85		173,27	(0:37)	(13:52)		
	Kalocsa Kalocsa, Service IN / Szerviz BE				176,56	0:06	(13:58)		
	SERVICE / SZERVIZ C					0:40			
IE/TC 5A	Kalocsa, Service OUT / Regrouping IN			4,40	177,67		(14:38)		
	GYŰJTŐ / REGROUPING								
IE/TC 5B	Kalocsa, Regrouping OUT / Gyűjtő KI						15:00	Section 6	
IE/TC 6	Kalocsa			5,72	183,39	0:10	15:10		
SS 6 START	KALOCSA	1:15				0:05	15:15		
SS 6 FINISH	FOKTŐ		48,85		232,24	(0:37)	(15:52)		
	Kalocsa Kalocsa, Service IN / Szerviz BE				235,84	0:07	(15:59)		
	SERVICE / SZERVIZ C					0:40			
IE/TC 6A	KALOCSA, PARC FERME IN / BE			3,60	235,84	0:07	(15:59)		

2021.09.05





Marianna MAGYAR KELEMENNÉ

003670944-51-48



Appendix 3. Decals and positioning of supplementary advertising

List and positioning of advertising in the Bulletin!



FIA Mandatory stickers placement.

ADVERTISING

1



1



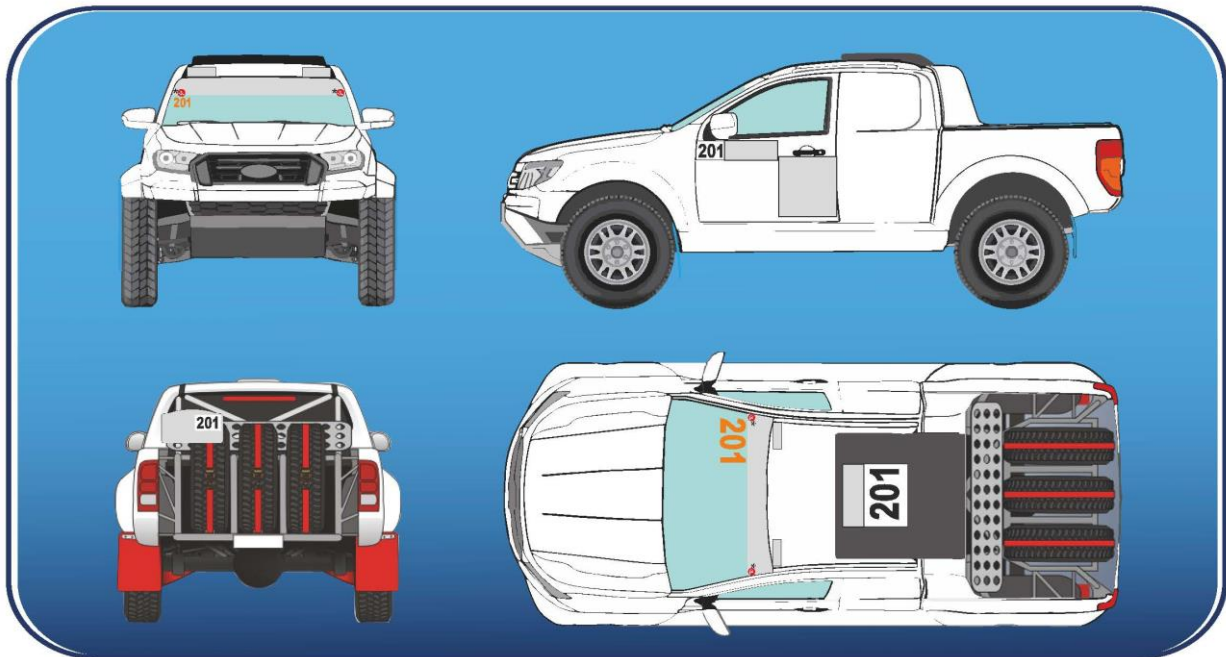
1



2



* According FIA CCR GP



Appendix 4 – Extracts from FIA ISC Appendix L relating to overalls, helmets and any other safety requirements

All competitors are reminded of Appendix L of the FIA International Sporting Code, in particular its Chapter III - Drivers' Equipment.

Helmets (Appendix L, Chapter III, Art. 1)

All crews must wear crash helmets homologated to one of the following FIA standards:

- 8858-2002 or 8858-2010 (Technical List N°41),
- 8859-2015 (Technical List N°49),
- 8860-2004 or 8860-2010 (Technical List N°33), or
- 8860-2018 or 8860-2018-ABP (Technical List N°69)

Frontal Head Restraint (FHR, Appendix L, Chapter III, Art. 3)

All crews must use FIA approved FHR systems homologated to FIA standard 8858.

Approved FHRs, anchorages and tethers are listed in Technical List N° 29.

See also helmet compatibility chart in Appendix L, Chapter III, Art. 3.3.

Flame-resistant clothing (Appendix L, Chapter III, Art. 2)

All drivers and co-drivers must wear overalls as well as gloves (optional for co-drivers), long underwear, a balaclava, socks and shoes homologated to the FIA 8856-2000 standard (Technical List N°27) or 8856-2018 (Technical List N° 74). Please pay special attention to the prescriptions of Art. 2 concerning embroidery and printing on flame-resistant clothing (manufacturer certificates etc.) **as well as concerning the correct wearing of the clothing elements! See also FIA Cross-Country Rally Sporting Regulations Article 48.1.**

Biometric Devices (Appendix L, Chapter III, Art. 2.1)

Drivers may wear a device to collect biometric data during racing.

- If the biometric device is integrated into a protective garment homologated to FIA Standard 8856, the garment shall be homologated to FIA Standards 8856 and 8868-2018.
- If the biometric device is a stand-alone device, then the device must be homologated to FIA Standard 8868-2018 only. This device must be worn in addition to the garment homologated to FIA Standard 8856.

Wearing of jewellery (Appendix L, Chapter III, Art. 5)

The wearing of jewellery in the form of body piercing or metal neck chains is prohibited during the competition and may therefore be checked before the start.

MEDICAL AND SURVIVAL KIT (Appendix III of the Cross-County Rally Sporting Regulations)

A sealed and valid Medical kit in accordance with the Specification for Cross Country Rallies and Bajas (Technical List n°83) must be placed inside the cockpit. The minimum weight must comply with Technical List n°83.

RELATED LINKS:

FIA International Sporting Code and appendices:

<https://www.fia.com/regulation/category/123>

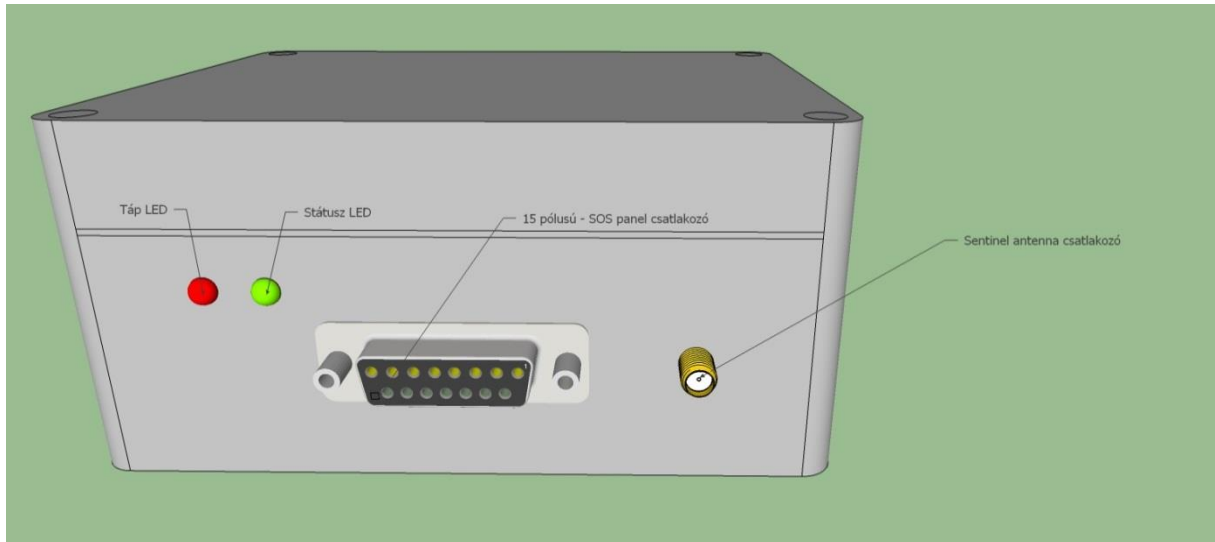
FIA Technical Lists:

<https://www.fia.com/regulation/category/761>



Appendix 5.

Rallyinfo.hu - Technical description of the operation of the GPS system V1



Pic. No. 1.: **GPS box**
clamps 110g

Sizes: 115x90x55mm

Weight: 340g + pipe

General operating principle of GPS measurements:

The GPS is an advanced positioning system for three-dimensional position determination, timing and velocity measurements can be carried out by land, sea or air. Accuracy is typically of the order of meters, but the environmental conditions can affect significantly. In the sky from the flat ground there are 7-25 satellites visible at the same time, of which for positioning at least three, for the height above sea level one additional satellite is necessary for determination. The GPS satellites are broadcasting at six frequencies. Each satellite broadcasts spread spectrum signal which may be "pseudo-random noise" called for.

The positioning is based on the theory of analytic geometric methods. The satellite positioning system is based on timing recycle distance measurement. Since we know the velocity of radio waves, and we know the date of issue and receipt of radio waves, can be determined based on the distance of the source of these. In the three-dimensional space knowing the exact measured distance from three known positions we are able to determine the position. Measuring the distance with other satellites we are able to improve this value.

Cause A significant distortion in the system can be caused by the effect of atmospheric to the radio waves. At the description of the calculations we assumed that to simply calculate with the distance = rate x time formula. This is true, but that the speed of radio waves are only constant in the vacuum pressure.

Evaluation of data

The evaluation of uploaded data can be determined inf two different ways.

Initial assessment of the competition supervision interface, real time data available online. This means the data that the device has been uploaded to the central database and downloaded online, analyzed by the supervisory program. The yet uploaded, or not yet analyzed data will be carried over in the subsequent analysis. Not uploaded data case occurs when the device is



in the absence of strength of GSM signal, and can not upload data to the central database. In the case where the data is available online in the database, but local network is busy or the downloads has interrupted due to bad network relationship, then the analysis of loss data only partially can take place online.

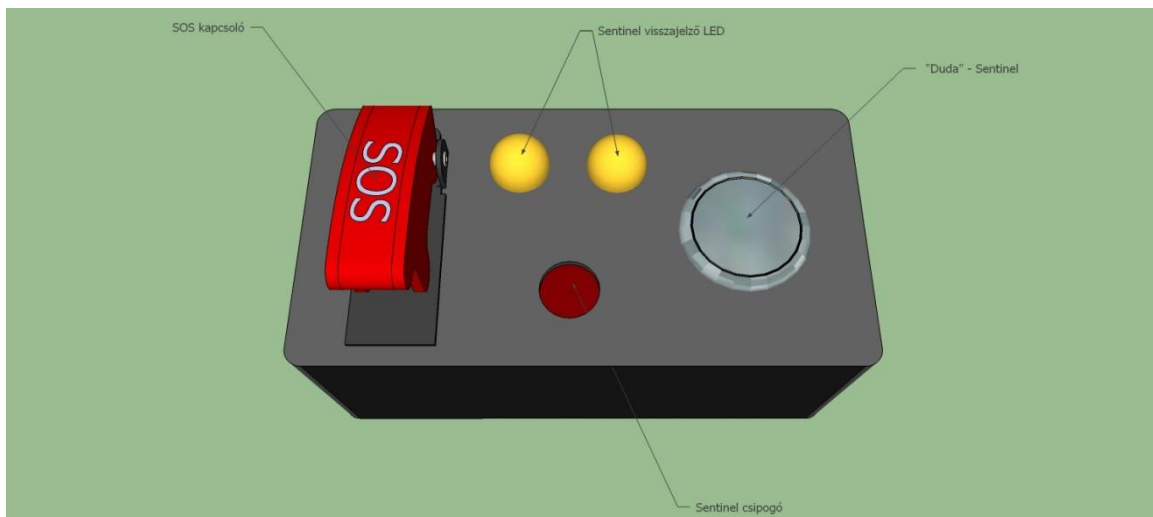
Alternate method is retrospective data analysis. In this case, the data collected what has been received by a specified time interval sets the database to a file, and the data can be evaluated from point to point.

Vehicle to Vehicle Alarm (VTVA) function

The device has a frequency of 433 MHz using radio module, which is broadcasting the data of an encoded in advance "bagpipe" and SOS functions corresponding sets of data, for the tools staying in range. The range distance can be greatly affected by ambient atmospheric conditions and terrain. The device has adjustable transmission power. This value is not possible adjustable during the race. Currently, the vehicle to vehicle alarm system has two functions:

- "Toot" function, which indicates the overtaking intent of a VTVA equipped car up to 100m distance. Pressing the SOS button, placed in the box, a red LED indicates the start, which lasts for 5 seconds. In the event that the other device receives the sent signal, then this confirms to the sending device and the server uploads the signal, and at the same time, in the overtaken vehicle's SOS panel's LED will lit blue with a beep sound (continuous), and in the overtaker's vehicle the LED color changes from red to blue light, no beep sound here. The indicator remains on the overtaken's vehicle for 10 seconds. Then, each signal is switched off until a next signal.

- Send SOS signal devices within range. This feature will be active if on the SOS panel, the SOS switch is turned on. Send the device continues the signal, until the SOS switch is turned on. In the case where a device receives the SOS signal, on the SOS panel the red and blue LED will blink, with a pulse (0.5 s) alarm signal, as long as is still within range. This feature requires a power supply operation.



Pic.No. 2.: **SOS Panel**

Sizes: 95x48x67mm

Weight: 120 g

Tool installation

- SOS panel, vehicle to vehicle alarm system antenna placement: Previously purchased SOS



panel's red and black wires with the 2poled TMWS2T connector must be connected to the 5A fuse mating port (horizontal shoe positive, vertical shoe negative polarity), 15 poled connector's end has to be wired with the right B column. SOS panel should be placed on the dashbord in such a way that both the driver and the navigator can reach. The adhesive antenna supplied shall be affixed to the top right corner of the windshield horizontally, the end of the cable wired to the right-hand column B.

- Installing the device: The device received at the Administrative check must be connected to the previously purchased and installed SOS panel and vehicle to vehicle alarm system antenna. The device must be fixed in the right column B with 2 clamps so that the device does not move and the visibility ensured.



Pic.No 3.
How to install 1.4

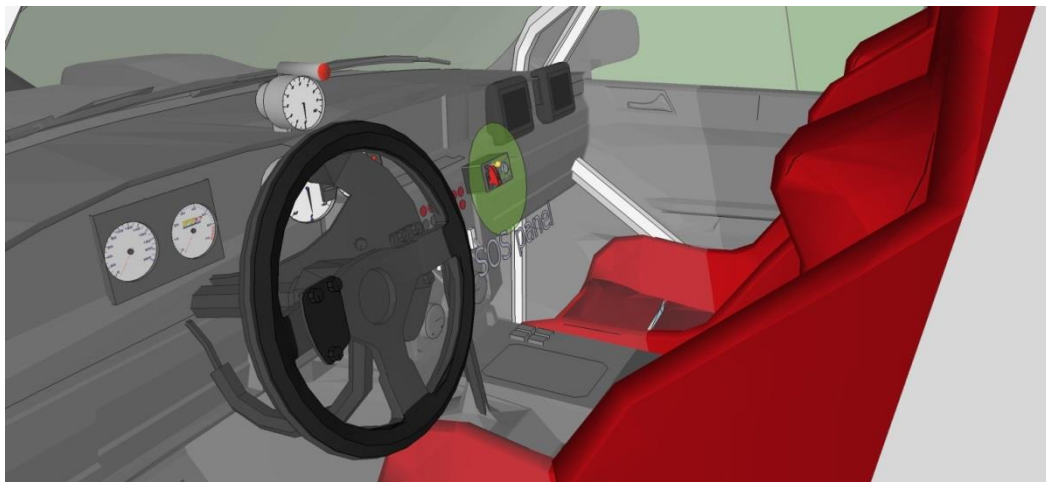


Pic. No 4.
How to install 2.4





Pic. No. 5.: How to install 3.4



Pic. No. 6.: How to install 4.4

- To verify the functionality of the device will take place at the Technical Scrutineering.

- At the end of the race the device should be returned to the colleagues, where the deposit will be repayed. In case if the device has any problem, until identifying the problem, the competitor is entitled to the deposit only after a corresponding deduction.

More info:

Marton Zsolt: tel: +36302413111



Appendix 6. Items at the organisers' discretion

1. TIME CARD PROVIDING/EXCHANGES

Time cards will be issued before the Start of each Leg, which must be submitted to the marshalls at the Finish of each Leg. The time card must be filled up by the competitor as instructed by the judges.
Time card exchanging: at regrouping.

2. LIMITED TIME DELAY

Maximum delay between two TC is 30 minutes per Leg. Delay exceeding this limit will result in disqualification.

3. FIXED PENALTY

Competitors who got fixed penalties on the day of the race, can revert to the race- at regrouping areas and Parc-Fermé at the end of the day, until the first vehicle's planned time, or at evening Parc-Fermé, no later than 15 minutes before the publication of next day's start list.

The specified penalty can only be used once on race days.

On Friday, Sept. 24, 2021, no competitor (s) who have not completed a selective stage may enter the Parc Fermé and continue the competition on Saturday, Sept 25, 2021.

On Saturday, Sept 25, 2021, the competitor must complete an evaluated selective stage in order to be evaluated in the competition.

4. PARK FERMÉ RULES

The washer-tarpaulin is mandatory!

According to the basic notice 58.1, the area of the regrouping station qualifies as Park Fermé, therefore the Park Fermé rules apply in the area of regrouping stations.

5. MAXIMUM SPEED

FIA maximum speeds (130 km / h, 180 km / h) are monitored by the GPS system and punished by Steward's.

6. ELECTRONIC DATA STORAGE

The organizer draws attention to Articles 9.1.1 - 9.1.3 of the CCRSR. that all electronic and data storage devices not permitted in the notice are prohibited on board vehicles. Compliance with this is carried out by the technical inspectors and, in the event of a breach, by Steward's punish.

7. CHALLENGE GROUP

Regulation: TROB Regulation and sporting rules 2021.

Daily licence starters are required to present a **Sports Medical Check Certificate!**

Evaluation: depending of the number of the entrants!

Challenge group is competing at a certain average speed, performing orientation tasks. The reduced average speed for a specific stage will be determined by consultation between the Organizer and the Clerk of the Course. The competitor closest to the specified average speed (+/-) will be the winner of that stage. With the GPS navigation and safety tracking system, the average speed can be measured on different speed control points. At the end of the event, the Challenge Group's evaluation will be determined by taking into consideration the speed on the designated selective stages as well as any delays or early arrivals on the routes connecting the selective stages (etap).

In case of non-compliance with the rules, the Clerk of the Course decides on the further participation of the disciplined competitor on the basis of the Marshall's report, primarily based on the TROB Regulation and sporting rules 2021, but may also decide on immediate exclusion and initiate the revocation of the licence.

Reconnaissance of the entire Kalo Race route is forbidden!

