



**MAGYAR
TEREP-RALLYE**
ORSZÁGOS BAJNOKSÁG 2024

DESERT EXPRESS 300

22-24.03.2024



**SUPPLEMENTARY
REGULATION**
ULT, STK, CHG, SSV, T4NAT
TH, TRUCK, UP, RAID



INDEX

Art. 1.	Introduction	3
Art. 1.1	Preamble	3
Art. 1.2	Length of Selective Sections	3
Art. 1.3	Overall SS distance and total distance of the itinerary.....	3
Art. 1.4	Route Conditions (Selective Stages)	3
Art. 2.	Organisation.....	4
Art. 2.1	Championships and titles for which the Baja counts.....	4
Art. 2.2	Approvals.....	4
Art. 2.3	Organiser's name, address, and contact details	4
Art. 2.4	Organising Committee	4
Art. 2.5	Stewards of the Meeting	4
Art. 2.6	FIA Delegates & Observer.....	4
Art. 2.7	Senior Officials.....	4
Art. 2.8	Location of Rally HQ and contact details	5
Art. 3.	Programme in chronological order and locations	5
Art. 4.	Entries.....	6
Art. 4.1	Closing date for entries.....	6
Art. 4.2	Entry procedure	6
Art. 4.3	Number of competitors accepted and vehicle classes	6
Art. 4.4	Entry fees/entry fee packages	6
Art. 4.5	Payment	7
Art. 4.6	Entry fee refunds	7
Art. 5.	Insurance Cover.....	7
Art. 6.	Advertising and Identification	8
Art. 6.1	Obligatory organiser's advertising.....	8
Art. 6.2	Optional organiser's advertising.....	8
Art. 7.	Tyres	8
Art. 8.	Fuel.....	8
Art. 8.1	Ordering procedure.....	8
Art. 8.2	Closing date for ordering fuel.....	8
Art. 9.	Administrative checks.....	8
Art. 9.1	Documents to be presented:.....	8
Art. 9.2	Timetable.....	9
Art. 10.	Scrutineering, Sealing and Marking	9
Art. 10.1	Scrutineering, venue and time	9
Art. 10.2	Mud flaps.....	9
Art. 10.3	Drivers' safety equipment	9
Art. 11.	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	10
Art. 11.4	Permitted early check-in	10
Art. 11.5	Super Special Stage, regulations and order	10
Art. 11.6	Road books delivery	10
Art. 11.7	Special procedures and activities	10
Art. 11.8	Official time used during the event.....	10
Art. 11.9	Electronic start procedure at the start of a Selective Section.....	10
Art. 11.10	Service.....	10
Art. 11.11	Speed Control Zones.....	11
Art. 12.	Identification of officials	11
Art. 13.	Prizes	11
Art. 14.	Final checks / Protests / Appeals	11
Art. 14.1	Final Checks.....	11
Art.14.2	Protest deposit.....	11
Art. 14.3	Appeal deposit.....	11

Appendix 1	Items at the organisers' discretion
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 GPS Tracking System
Appendix 6	Itinerary

Art. 1. Introduction

Name of the event: Desert Express 300

Date of the event: 22-24.March 2024.

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 Main Locations

LOCATION	ADDRESS / GOOGLE MAP LINK
Rally HQ Administrative Check	Bugac, Táltos Panzió - https://maps.app.goo.gl/eyPitZ9nGFAtxFfx5
Servicepark Technical Scrutineering Regrouping	Bugac, Behind Táltos Panzió - https://maps.app.goo.gl/BqTqVPHrKuhVtC5w8
Parc Fermé	Bugac, Kossuth str. 2. - https://maps.app.goo.gl/gfzzcmqVwi7TEr4G9
Final Check	Bugac, Tűzoltó Szentár: Kada Elek str. 1. - https://maps.app.goo.gl/JU9djXM89iTsvU9f9
Prize Giving Ceremony	Bugac, Táltos Panzió - https://maps.app.goo.gl/eyPitZ9nGFAtxFfx5

Art. 1.2 Length of Selective Sections

Leg1: Length: 70 km

Leg2: Length: 255,0 km

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

ULT, STK, CHG, SSV, T4NAT, TH, TRK, UP:

Number of Legs	2
Number of Sections	5
Number of Selective Sections	5
Total distance of the itinerary	400 km
Overall length of Selective Sections	325 km

RAID category

Number of Legs	2
Number of Sections	5
Number of Selective Sections	5
Total distance of the itinerary	cca.200 km
Overall length of Selective Sections	cca.150 km

Art. 1.4 Route Conditions (Selective Stages)

The competition takes place on sandy terrain: 'Safety type B'.

Gravel/dirt tracks	0	%
Open dessert	100	%
Dunes	0	%
Other surfaces	0	%

Art. 2. Organisation

Art. 2.1 Championships and titles for which the Baja counts

FIA Central European Zone (CEZ) Championship and
Hungarian Cross-Country Rally Championship

Art. 2.2 Approvals

ASN registration number / Visa No.: K-140/2024.03.04.

Approved on: 04.03.2024

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

Organizer:	Garilla Racing Kft.	Co-Organizer: Garzone s.r.o
Representative:	Garamvölgyi Zoltán	
Street:	Házgyári str. 1.	Vel'koblahovská 75/39
Postal Code / City:	8200 Veszprém, HU	929 01 / Dunajská Streda, SK
Phone:	+36 30 7914270	
E-mail:	info@garzoneracing.com	

Art. 2.4 Organising Committee

Patron of the Event: Mr. László SZABÓ – Mayor of Bugac
Organising Committee: Mr. Zoltán GARAMVÖLGYI
Mr. László POLGÁR
Mr. László BALOGH
Mr. Ferenc SCHEIBENHOFFER

Art. 2.5 Stewards of the Meeting

	Name
Stewards of the Meeting (Chairman):	Mr. Péter FALUVÉGI
Steward	Mr. Gabriel SZÁNTÓ (SK)
Steward	Mr. Attila VINOCZAI

Art. 2.6 FIA Delegates & Observer

None.

Art. 2.7 Senior Officials

	Name
Clerk of the Course:	Mr. János FALICS
Secretary of the Event:	Mrs. Julianna TÖRÖK
Chief Safety Officer:	Mr. László BALOGH
Scrutineers (Chief Scrutineer):	Mr. Szabolcs SOLTI
Chief Medical Officer:	TBA*
Competitors' Relations Officer (CRO):	Mr. István MÁTRAI Jr.
Chief Timekeeper	Mr. Csaba GLÜCK / Chronomoto Kft.
Press Officer:	Mrs. Réka ERŐS

GPS evaluation	M-Info
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*Published in Bulletin, up to the Administrative Check

Art. 2.8 Location of Rally HQ and contact details

Name: Táltos Panzió, Bugac <https://maps.app.goo.gl/eyPitZ9nGFAxFx5>
Post code, city: 6114 Bugac
Rally HQ in operation: from 22.03.2024. 17:00 to 24.03.2024. 20:00
Service parc in operation: from 22.03.2024. 09:00 to 24.03.2024. 20:00
Digital Notice Board (DNB):



On PC: https://webapp.sportity.com/channel/DEX300_CARS24

Art. 3. Programme in chronological order and locations

	Location:	Date:	Time:
Publishing of the supplementary regulations	https://www.terep-rallye.hu/2024-2/desert-express-300/ and sams-asn.sk and Sportity	15.02.2024	18:00
Entries open	https://www.terep-rallye.hu/2024-2/desert-express-300/	15.02.2024	18:00
Closure date of entries		12.03.2024	18:00
Publication date of entry list		14.03.2024	08:00
Opening of Serviceparc	Behind Táltos Panzió, Bugac	22.03.2024	09:00
Opening of Rally Office	Táltos Panzió, Bugac		17:00
Optional Administrative checks			17:00-19:00
Opening of Rally Office / Press Office	Táltos Panzió, Bugac According to the scheduled time!	23.03.2024	07:30
Administrative Checks			08:00
Collection of navigation GPS and tracking syst.			08:00
Scrutineering– sealing&marking of components	Serviceparc According to the scheduled time!		08:30-12:30
Parc Fermé	Piactér, Kossuth Str.2		11:30-13:00
First Stewards Meeting			12:30
Briefing Road Book distribution	Táltos Panzió, Bugac		13:00
Publication of start list	https://www.terep-rallye.hu/2024-2/desert-express-300/ and Sportity		13:00
Start of the Rally – Leg 1	Piactér, Kossuth Str.2, Bugac		14:30
SS1 Start			14:40
Service / Regrouping	Behind Táltos Panzió, Bugac	15:15	
SS2 Start		16:45	

Service	Behind Táltos Panzió, Bugac	23.03.2024	17:30
Leg 1 Finish / Parc Fermé	Piactér, Kossuth Str.2, Bugac		19:00
Publication of start list Leg2.	https://www.terep-rallye.hu/2024-2/desert-express-300/ and Sportity		20:30
Leg 2 Start	Piactér, Kossuth Str.2., Bugac	24.03.2024	09:00
SS3 Start			09:15
Service / Regrouping	Behind Táltos Panzió, Bugac		10:25
SS4 Start			11:45
Service / Regrouping	Behind Táltos Panzió, Bugac		12:55
SS5 Start			15:45
Race Finish / Parc Fermé	Piactér, Kossuth Str.2, Bugac		17:00
Final scrutineering (following the marshals' instructions)	Tűzoltó Sertár, Kada Elek Str.1., Bugac		Immediate after arrival in the finish
Publication of Provisional Classification	Sportity		18:30*
Publication of Final Classification			19:00
Prize giving ceremony	Táltos Panzió, Bugac	19:00	

*After the Stewards have declared the Classification final.

Art. 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.

See also FIA International Sporting Code Art. 3.8 – Art. 3.14

Submitting your entry on the following webpage <https://www.terep-rallye.hu/2024-2/desert-express-300/>

When registering for entry, all requested documents for the administrative check must be uploaded onto the registration platform. Failure to do so will result in the registration being deemed incomplete and unacceptable.

Art. 4.3 Number of competitors accepted and vehicle classes

Art. 4.3.1 The number of competitors must be a maximum of 55 vehicles

Art. 4.3.2 Eligible cars

ULT, STK, CHG, SSV, T4Nat, TH, TRK, UP, RAID

Art. 4.4 Entry fees/ other fees

4.4.1. Entry fee:

ULT, STK, CHG, SSV, T4Nat, TH, TRK class 700 €
Without optional advertising +60%

UP class (shorter distance) 530 €
Without optional advertising +60%

RAID class (shorter distance) 320 €
Without optional advertising +60%

The entry fee includes:

- Additional compulsory liability insurance
- Identification and Advertising decals

Art. 6. Advertising and Identification

See Appendix 3 of these SR "Decals and positioning of supplementary advertising".

Art. 6.1 Obligatory organiser's advertising

- Rally plate: 43x21 cm (CHG, SSV, T4Nat: 19x18cm)
- Competition number size: ULT: 42x44cm (except T1.2 category: 36x36cm)
 CHG, SSV, T4Nat: 30x31cm
 TRK: 46x48cm
- Windshield start number: 110x10cm

Art. 6.2 Optional organiser's advertising

Advertising decal: ULT: 42x44cm (except T1.2 category: 36x36cm)

 CHG, SSV, T4Nat: 30x31cm

 TRK: 46x48cm

The organiser will provide each crew with the number identification and advertising stickers, which must be affixed to their competing vehicle prior to scrutineering, on the stated positions indicated in the Supplementary Regulation. The placement of the Optional advertising stickers is only accepted as indicated! Any other placement of them will not be accepted at the Technical Scrutineering, until it is placed on the required spot or have been payed the "Without optional advertising the Entry Fee: +60%".

Art. 7. Tyres

See Art. 10 of the FIA CCRSR

Art. 8. Fuel

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

There are no petrol stations along the whole track of **Dersert Express**, therefore refuelling can be done in the serviceparc 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.

Art. 9. Administrative checks

At the administrative both members- driver or the co-driver must be present.

Art.9.1 Location: Bugac, Táltos Panzió - <https://maps.app.goo.gl/eyPitZ9nGFAtxFfx5>

When entering to the competition, it is necessary to upload the required documents for the administrative check (listed below) onto the registration platform.

Art. 9.1.1 Documents to be presented:

During the administrative checks the following original and valid documents will be checked:

- competitor's licence valid for the competition;
- driver's and co-driver's competition licences valid for the competition (see Art, 7 and 9 of Appendix L)
- driver's and co-driver's valid driving licence (except UP and RAID Category)

- driver's and co-driver's passports or identification
- ASN authorisation, for all foreign competitors and/or drivers
- Valid Compulsory Vehicle Liability Insurance of the competing vehicle
- Vehicle registration certificate
- Authorisation of the owner of the vehicle (if different from the competitor)
- FIA homologation form for STK category
- FIA Technical Passport. (if applicable) or ASN Passport for competitors with foreign licences

Art. 9.2 Timetable

TIME:	22.03.2024	17:00 - 19:00	Optional!
	23.03.2024	08:00 - 12:00	According to the individually scheduled time!

Administrative check will take place at an individually scheduled time for each crew, published on the following website: <https://www.terep-rallye.hu/2024-2/desert-express-300/> and Sportity.

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

Art. 10. Scrutineering, Sealing and Marking

10.1. Location: Bugac, Behind Táltos Panzió: <https://maps.app.goo.gl/BgTqVPHrKuhVtC5w8>

For technical scrutineering, Technical Scrutineers will visit the venue (service park). The vehicle will be inspected in the presence of any two members of the team. Individually scheduled time for each crew will be published on the following website:

<https://www.terep-rallye.hu/2024-2/desert-express-300/> and Sportity.

Art. 10.1.1 Time

TIME:	23.03.2024	08:30 – 12:30	According to the individually scheduled time!
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Art. 10.1.2 Documents to be presented

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

After Technical Scrutineering all vehicles must be set in the Parc Fermé: 23.03.2024. 11:30-13:00

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)
- OK / SOS board

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. Returning the GPS Navigation and Safety Tracking System at the Parc Fermé, to the M-Info crew, where the deposit will be refunded as well.

The instruction for the use of the Tracking System is in the Appendix 5. of these Supplementary Regulation.

Art. 11. Other procedures and regulations

Art. 11.1 Briefing

Location: Bugac, Táltos Panzió: <https://maps.app.goo.gl/eyPitZ9nGFAtxFfx5>

Time: 23.03.2024 13:00

Art. 11.2 Start Area

Parc Fermé, Bugac, Kossuth str.2.: <https://maps.app.goo.gl/BgTqVPHrKuhVtC5w8>

Art. 11.3 Finish location

Behind Táltos Panzió: <https://maps.app.goo.gl/BgTqVPHrKuhVtC5w8>

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 Prologue

Will not take place.

Art. 11.6 Road Book delivery

Leg1: at the Briefing

Leg2: when entering the Friday evening Parc Fermé

Art. 11.7 Special procedures and activities

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

On Digital Notice Board: Sportity.

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. 11.10.1 Service Areas / Bivouacs

Bugac, Behind Táltos Panzió: <https://maps.app.goo.gl/BgTqVPHrKuhVtC5w8>

Entry will be permitted to the Serviceparc only showing the Service Plates. Accompanying team cars can enter only by purchasing a 30€/10.000HUF sticker at the Administrative Checks.

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. 11.10.2 Flexi Service

Not applicable

Art. 11.10.3 Service allowed in Selective Section

According to FIA CCR 49.

Art. 11.10.4 Fuel and Refuelling Zone

There are no petrol stations along the whole track of Desert Express 300, refuelling can be done in the serviceparc area with the engine turned off. Having a min.4kg fire extinguisher and a protector canvas underneath is mandatory! The entire refueling process in the service park is the sole responsibility of the team!

Art. 11.11 Speed Control Zones

According to Roadbook

Art. 12. Identification of officials

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



Art. 13. Prizes

LOCATION: Bugac, Táltos Panzió: <https://maps.app.goo.gl/eyPitZ9nGFAtxFfx5>

TIME: 24.03.2024. 19:00

- Overall classification: 1-3 cup
- Group Classification: 1-3 cup
- Total Overall: 1-6 cup
- Bugac offers a special award for the fastest female competitor on SS1

Art. 14. Final checks / Protests / Appeals

Art. 14.1 Final Checks

LOCATION: Bugac, Tűzoltó Szertár: Kada Elek str. 1. - <https://maps.app.goo.gl/JU9djXM89iTsvU9f9>

TIME: 24.03.2024. Straight after arriving 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 – 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. 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, for any reason (getting lost, technical issues, exceeding maximum time, etc.), are unable to complete the selective sections of the Legs, shall incur penalties according to TROB regulation chapter 48.1 and 48.2.

However, only those competitors who meet the following conditions are eligible for further evaluation:

- Starting on each Leg properly.
- Completing at least one SS on each Leg, that is eligible for evaluation (if there are more than one SS on a given Leg).
- Reporting and having their Time Card checked at Regrouping IE OUT, or at any IE station specified in the regulations- before the first competing vehicle's time, according to their group's designated schedule.
- Reporting at the next Leg according to Regulation 34.3.1.
- Reporting and having their Time Card checked during the operating time of IE IN, at the end of each Leg, or on the closing day of the competition.

Deviation from the severity of penalties can only be permitted by TRSB, up to the beginning of the competition.

Competitors re-entering the race during the day may only start after all other competitors, and in the case of more competitors, their order is determined by the starting order of the respective Leg.

4. PARC-FERMÉ RULES

Protecting canvas under the racing vehicle is mandatory!

According to CCRSR 58.1, the regrouping area qualifies as Parc Fermé, therefore the Parc Fermé rules apply in the Regrouping.

5. MAXIMUM SPEED

The FIA maximum speed are monitored by the GPS system, exceeding them will be and punished by the Stewards.

CATEGORY	MAX.SPEED
ULTIMATE	170km/h
STOCK	170km/h
CHALLENGER	135km/h
SSV	125km/h
TH	170km/h
T4NAT	125km/h
TRUCK (except T5.2)	140km/h
T5.2 TRUCK	125km/h
UP	70km/h
RAID	40-60km/h

6. ELECTRONIC STORAGE DEVICE

The organizer draws attention to Articles 9.1.1 - 9.1.3 of the CCRSR., that all electronic and data storage devices not authorized are prohibited on board vehicles. This will be checked by the Scrutineers, and not complying with will be punished by the Stewards.

7. UP / RAID GROUP

TROB Regulation and sporting rules 2024

Reconnaissance of the entire „Desert Express 300” route is forbidden!



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Expected time shedule:

Saturday 23. March	Technical Scrutineering Parc ferme Briefing / Start TC / HQ / Szerviz Park	08:00-20:00
Sunday 24. March	Parc Fermé Service area / HQ / Final Scrutineering / Prize Giving Ceremony	08:00 - 08:30 08:30 - 19:00

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:

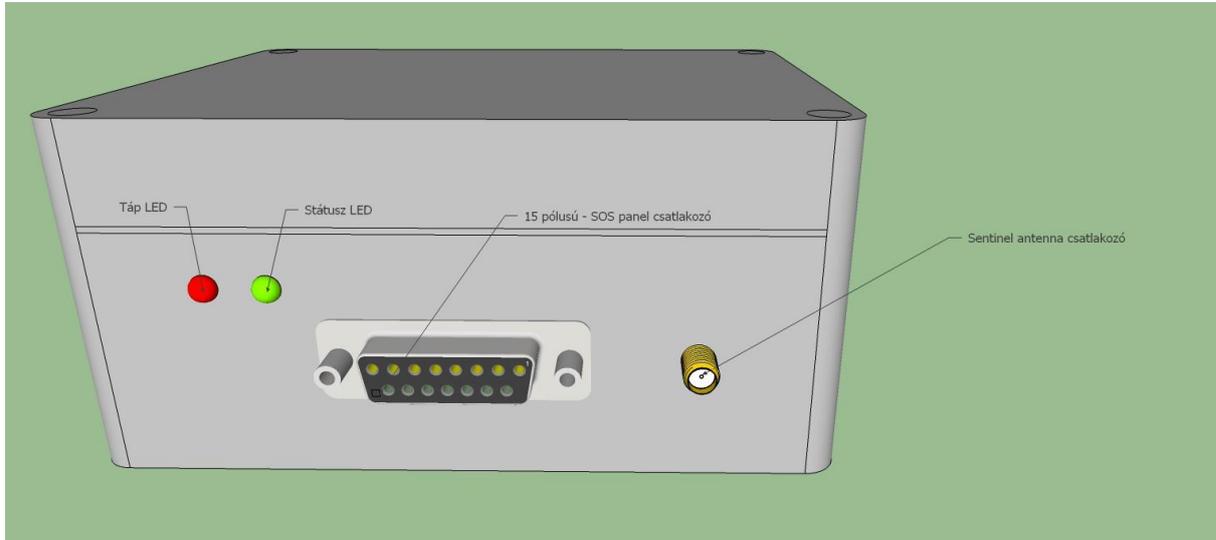
FIA International Sporting Code and appendices:

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

FIA Technical Lists:

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

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



Pic. No. 1.: **GPS box** Sizes: 115x90x55mm Weight: 340g + pipe clamps 110g

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 strenght 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.

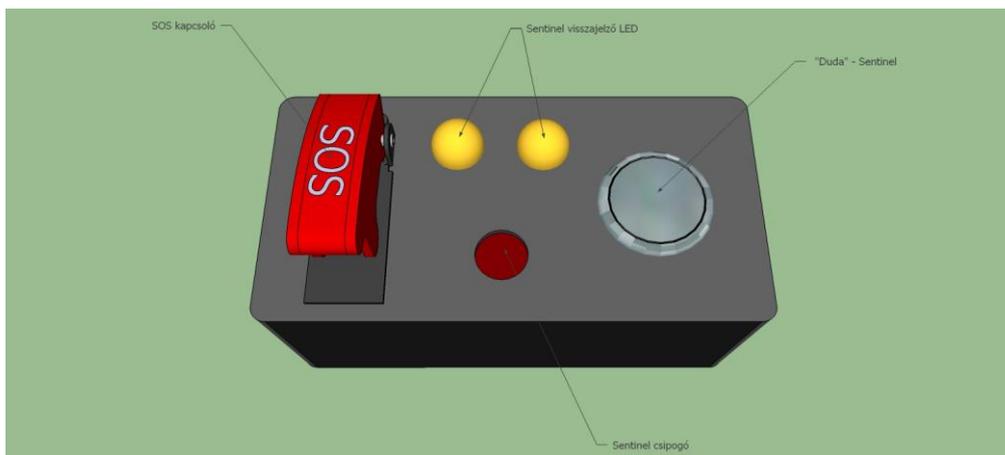
Alternate method is retrospective data analysis. In this case, the data collected what has been received by a specified time interval sets the database to a file, and the data can be evaluated from point to point.

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

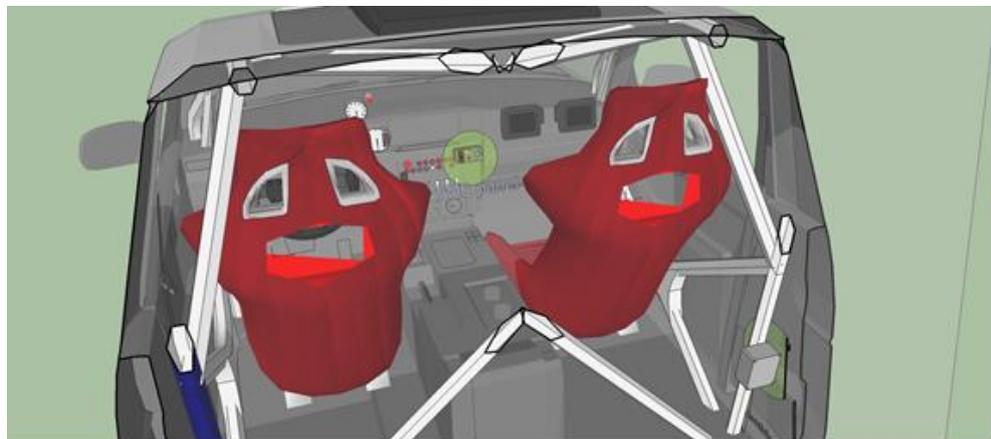
device must be fixed in the right column B with 2 clamps so that the device does not move and the visibility ensured.



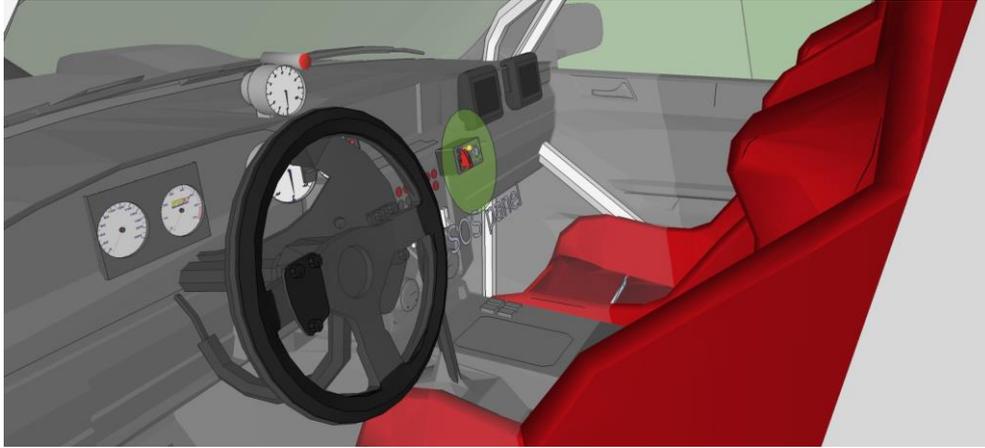
Pic.No. 3.: How to install 1.4



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:

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Appendix 6 ITINERARY