



RAID OF THE CHAMPIONS

NYIRÁD

3-5
NOVEMBER
2022

SÁSKA - ZALAHALÁP - SZŐC - KOLONTÁR - PUSZTAMISKE



SUPPLEMENTARY REGULATION

T1, T2, T3, T4, TH, CH



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RACING

BIOEXTRA



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Art. 1. Introduction

Name of the event: Z-FUVAR Raid of the Champions 2022

Date of the event: 3-5.November 2022.

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: 90,2 km

Leg2: Length: 248,0 km

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

T category

Number of Legs	2
Number of Sections	5
Number of Selective Sections	5
Total distance of the itinerary	338,2 km
Overall length of Selective Sections	256,6 km

CH category

Number of Legs	2
Number of Sections	5
Number of Selective Sections	5
Total distance of the itinerary	301,2 km
Overall length of Selective Sections	220 km

Art. 1.4 Average altitude

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

Art. 1.5 Route Conditions (Selective Stages)

The race mostly passes through forest dirt roads, in case of rainy weather you can expect slippery, pothole ground. Type: Safety Type B

Gravel/dirt tracks	100	%
Open dessert	0	%
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-0752/2022.10.14.
SAMS VISA No.: 221002/2022

Approved on: 14.10.2022
Issued on: 28/09/2022

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

Organiser: Garzone s.r.o and Garilla Racing Kft.
Organiser's representative: Garamvölgyi Zoltán
Street/P.O. Box: Vel'koblahovská 75/39
Post code/city: 929 01 / Dunajská Streda
Phone: +36 30 696 0386
E-mail: info@garzoneracing.com

Art. 2.4 Organising Committee

Patron of the Event: Mr. Dr.

Organising Committee: Mr. Zoltán GARAMVÖLGYI
Mr. Ferenc SCHEIBENHOFFER
Mr. László BALOGH
Mr. László POLGÁR

Art. 2.5 Stewards of the Meeting

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

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. Sándor NÉMETH – Kékfény Security
Deputy 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:	Ms. Kata RÉPA
GPS evaluation	M-Info
Challenge Instructor	Mr. Attila CSATÓ

*Published in Bulletin, up to the Administrative Check

Art. 2.8 Location of Rally HQ and contact details

Name: Ady Endre Culture House **N47° 00' 03.45", E17° 26' 49.15"**
Street: Petőfi Sándor str. 18.
Post code, city: 8454 Nyirád,

Rally HQ in operation: from 03.11.2022. 12:00 to 05.11.2022. 20:00
Service parc in operation: from 03.11.2022. 09:00 to 05.11.2022. 20:00



Sportity

For direct event information please download the Sportity app and insert this password:

ROC22_CARS

Sportity app is available in

Available on the App Store

Get it on Google play

www.sportity.com

On PC: https://webapp.sportity.com/channel/ROC22_CARS

Art. 3. Programme in chronological order and locations

	Location:	Date:	Time:
Publishing of the supplementary regulations	https://www.terep-rallye.hu/bajnoksag/versenyek/2022-2/raid-of-the-champions/ and sams-asn.sk and Sportity	30.09.2022	18:00
Entries open	https://www.terep-rallye.hu/bajnoksag/versenyek/2022-2/raid-of-the-champions/	30.09.2022	18:00
Closure date of entries		25.10.2022	18:00
Publication date of entry list		28.10.2022	08:00
Opening of Serviceparc	Football field - Nyirád, Szeptember 4. str. N46° 59' 52.25", E17° 26' 39.11"	03.11.2022	09:00
Opening of Rally Office, Press Office			12:00
Administrative checks	Ady Endre Culture House, Petőfi Sándor str.18. N47° 00' 03.45", E17° 26' 9.15"		12:00-20:00
Collection of Road Book	According to the scheduled time!		
Collection of navigation GPS and tracking syst.			
Scrutineering– sealing&marking of components	Ady Endre Culture House, Petőfi Sándor str.18. N47° 00' 03.45", E17° 26' 49.15" According to the scheduled time!		12:30-20:30
Parc Fermé	Nyirád, Szeptember 4. str.- Petőfi S. str. corner N47° 00' 01.40", E17° 26' 49.52"	04.11.2022	9:00-9:50
First Stewards Meeting			10:00
Briefing	Ady Endre Culture House, Petőfi Sándor str.18. N47° 00' 03.45", E17° 26' 49.15"		10:30
Road Book distribution			
Publication of start list	https://www.terep-rallye.hu/bajnoksag/versenyek/2022-2/raid-of-the-champions/ and Sportity		
Start of the Rally – Leg 1	Nyirád, Szeptember 4. str.- Petőfi S. str. corner		11:15
SS1 Start (Challenge also full length)			11:35
Service / Regrouping	Football field → PF		12:10
SS2 Start (Challeng also full length)			14:00
Service	Football field - Nyirád, Szeptember 4. str.		14:35
Leg 1 Finish / Parc Fermé	Nyirád, Szeptember 4. str.- Petőfi S. str. corner		16:10

Publication of start list Leg2.	https://www.terep-rallye.hu/bajnoksag/versenyek/2022-2/raid-of-the-champions/ and Sportity	04.11.2022	18:00
Leg 2 Start / CH	Nyirád, Szeptember 4. str.- Petőfi S. str. corner.	05.11.2022	08:15/ 07:40
SS3 Start (Challenge first, shortened length!)			08:35/ 08:00
Service / Regrouping	Football field → PF		09:45/ 09:10
SS4 Start (Challenge first, shortened length!)			11:00/ 10:25
Service / Regrouping	Football field → PF		12:10/ 11:35
SS5 Start (Challenge also full length)			14:00/ 15:00
Race Finish / Parc Fermé	Nyirád, Szeptember 4. str.- Petőfi S. str. corner.		15:15/ 16:30
Final scrutineering (following the marshals' instructions)	Ady Endre Culture House, Petőfi Sándor str.18.		Immediate after arrival in the finish
Publication of Provisional Classification	https://www.terep-rallye.hu/bajnoksag/versenyek/2022-2/raid-of-the-champions/ and Sportity		17:00*
Publication of Final Classification			17:30
Prize giving ceremony	Ady Endre Culture House, Petőfi Sándor str.18.		18:00**

*After the Stewards have declared the Classification final.

**If the covid restrictions will allow!

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/bajnoksag/versenyek/2022-2/raid-of-the-champions/>.

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, beside the duly completed and signed Entry Form and proof of payment, it is necessary to send scan copies of all documents required for the Administrative Check of the driver and co-driver, also the competing vehicles to the following email address: info@garzonracing.com.

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

T1, T2, T3, T4, T4Nat, TH-C, TH-M, Challenge

Art. 4.4 Entry fees/ other fees

4.4.1. Entry fee:

T1 – T2 – T3 – T4Nat –TH 600 €
Without optional advertising +100%

Challenge (shorter distance) 300 €
Without optional advertising +100%

Team Registration: 100 €

The entry fee includes:

- Additional compulsory liability insurance
- 1 pc. 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 50m² service area. For a Service area up to 50m², 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

4.4.3. Other Fees

- additional permission to the service parc (service plate): 30 €
- Additional service area (50m²): 60 €
- Trailers, Motorhomes, Promotion Vehicles: 60 €
- Waterproof Road Book 80 €

The Entry Form will be accepted only with the proof of payment of the entry fee.

Entries after the entry deadline are considered "On-site entries" by the organizer! (150%)

4.4.4. Individual accident insurance- Extreme Insurance

All competitors are obliged to have Extreme Insurance cover! To be paid at the Administrative Check!

Fee: 5€ /Day/ Competitor

Art. 4.5 Payment

All entry fees must be transferred to the following bank account (EUR):

Bank: Slovenská Sporitelna, a.s.

Account holder: Garzone s.r.o

IBANN: SK2609000000005063476359

SWIFT / BIC: GIBASKBX

Please note: Raid of the Champions 2022, and the full name of the driver.

With signing the Entry Form, competitors agree, the GPS system operators to give their data to the organizer, event's officials.

Art. 4.6 Entry fee refunds

The entry fee shall be refunded in full

- if the event does not take place
- to teams whose entry application have been rejected

The organiser may partially refund entry fees, if a competitor cannot take part in the event due to a duly proved case of force majeure, and notify the organizer of this in writing at least 72 hours before the event at julianna@garzoneraing.com.

Art. 5. Insurance Cover

MNASZ insurance information 2022.

Additional compulsory liability insurance is included in the Entry Fee.

Extreme Insurance to be paid on the spot- mandatory for each competitor!

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: 42x21 cm

Competition number size: 67 x 17 cm

Windshield start number: 20x10 cm

Windshield advertising sticker: 25x10 cm

Art. 6.2 Optional organiser's advertising

Advertising decal: 50x50cm (CARS) / 30x30cm (SBS)

The organiser will provide each crew with the number identification, rally plate, 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 paid the "Without optional advertising the Entry Fee".

Without optional advertising the Entry Fee is +100%.

Art. 7. Tyres

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

Art. 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 no petrol stations along the whole track of the **Z-FUVAR Raid of the Chmpions 2022**, 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 check is enough to appear only the driver or the co-driver.

Art.9.1 Location: ADY ENDRE CULTURE HOUSE, NYIRÁD, PETŐFI SÁNDOR STR.18.

We politely ask everybody to send scan copies of all required documents related to Administrative checks to julianna@garzonercing.com.

Art. 9.1.1 Documents to be presented:

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 valid driving licences valid for the vehicle entered
- ASN authorisation for foreign competitors (if required)
- Completion of all details on the Entry Form
- Valid Compulsory Vehicle Liability Insurance of the competing vehicle
- 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

TIME: 03.11. 2022 12:00-20:30 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/bajnoksag/versenyek/2022-2/raid-of-the-champions/> and Sportity.

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

Art. 10. Scrutineering, Sealing and Marking

10.1. Scrutineering, venue and time:

ADY ENDRE CULTURE HOUSE, NYIRÁD, PETŐFI SÁNDOR STR.18.

Cars may be presented at scrutineering by a representative of the team. Individually scheduled time for each crew will be published on the following website: <https://www.terep-rallye.hu/bajnoksag/versenyek/2022-2/raid-of-the-champions/> and Sportity.

Art. 10.1.1 Scrutineering, mandatory documents

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

Art. 10.1.2 Time, schedule

TIME: 03.11.2022 12:30 – 20:30 By schedule!

After Technical Scrutineering all vehicles must be set in the Parc Fermé: 04.11.2022. 9:00-9:50

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 Ceremonial start procedures and order

Considering the current pandemic situation, it will not be held.

Art. 11.2 Start Area

Nyírád, Szeptember 4. str.- Petőfi Sándor str. corner

Art. 11.3 Finish procedures

Nyírád, Szeptember 4. str.- Petőfi Sándor str. corner

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 book delivery

Leg1, Leg2: at the Briefing

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

The final classification will be published on the website on the Digital Notice Board: <https://www.terep-rallye.hu/bajnoksag/versenyek/2022-2/raid-of-the-champions/> and 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 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

Football field - Nyirád, Szeptember 4. str.

Entry will be permitted to the Servicepark only showing the Service Plates. Accompanying team cars can enter only by purchasing a 30€ /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 servicepark, except 50.1.2

Art. 11.10.5 Fuel and Refuelling Zone

There are no petrol stations along the whole track of Z-FUVAR Raid of the Champions 2022., refuelling can be done in the servicepark 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. 11.12 Shakedown

On 4th of November 2022, Garilla Racing Kft. is organizing an official 'Cross-country Rally Test approved by the TRSZB. Requirement the successful administrative and technical check!

Date: 03.11.2022 13:00-16:00

Location: Nyirád

Length: 5km

Includes: Roadbook, Rescue, Security staff, radio network

Price: car: 100€

motor/quad: 50€

Any other shakedown request, after the publication of the Supplementary Regulation, after consulting with the organizer, must have a written approval from the TRSZB.

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: Ady Endre Culture House, Nyirád, Petőfi Sándor str. 18.

TIME: 05.11.2022. 18:00

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

- Total Overall: 1-6 cup
- Nyirád offers a special award for the fastest female competitor on SS5
- Kolontár offers a special award for the most accurate Challenge competitor.

Art. 14. Final checks / Protests / Appeals

Art. 14.1 Final Checks

LOCATION: **Ady Endre Culture House, Nyirád, Petőfi Sándor str. 18.**

TIME: 05.11.2022. from 15:15

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

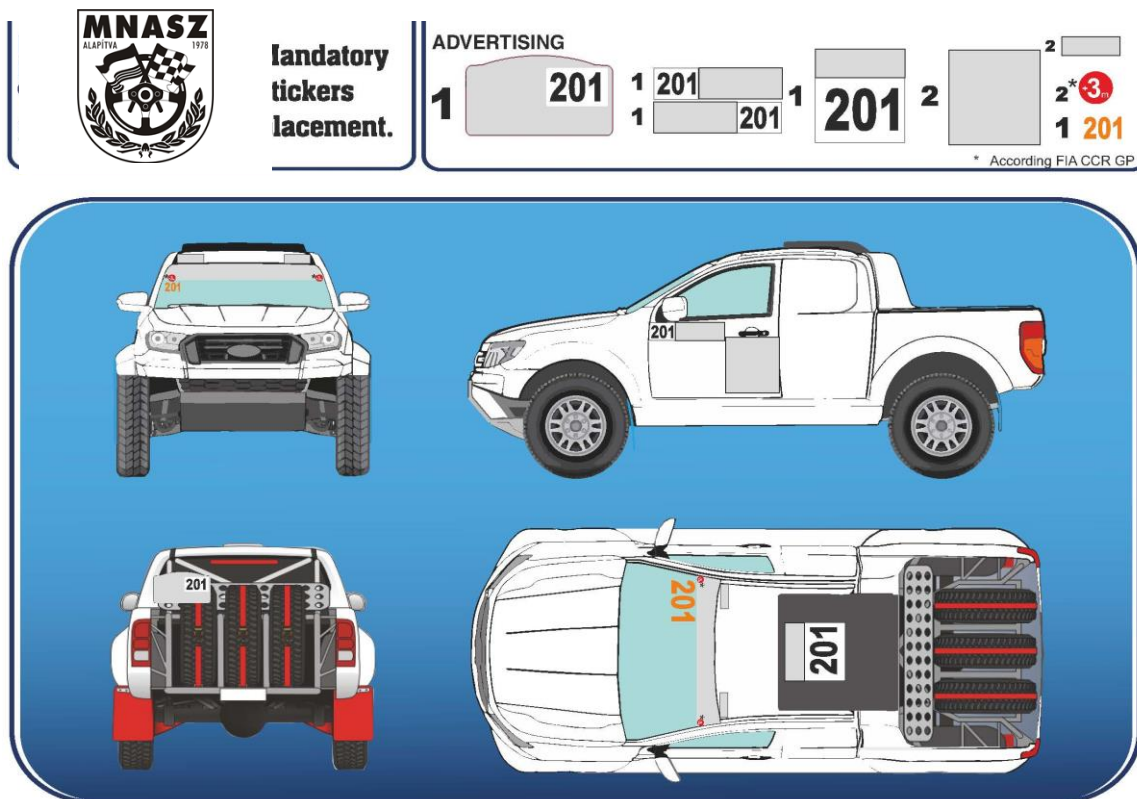


Mátrai István Jr.
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Expected time shedule:

Thursday 03. November	Admin check Scrutineering	12:00-20:00 12:30-20:30
Friday 04. November	Parc ferme Briefing / Start TC / HQ / Szerviz Park	09:00-10:00 10:00-19:00
Saturday 05. November	Parc ferme Service area / HQ	07:00-14:00 07:00-17:00

List and positioning of advertising in the Bulletin!



Matricák felhelyezése / Positioning of the stickers:

1. Rajtszám / Competition nr.: 67x17cm
2. Reklámtábla / Advertizing decal : 30x30cm
3. Szélvédő matrica / Windshield advertising sticker: 25x10 cm
4. +3 perc / +3 minute
5. Szélvédő Rajtszám / Windshield start number: 20x10 cm
6. Tetőrajtszám / Roof start number: 50x50cm
7. Rallytábla / Rallyplate: 21x10cm



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:

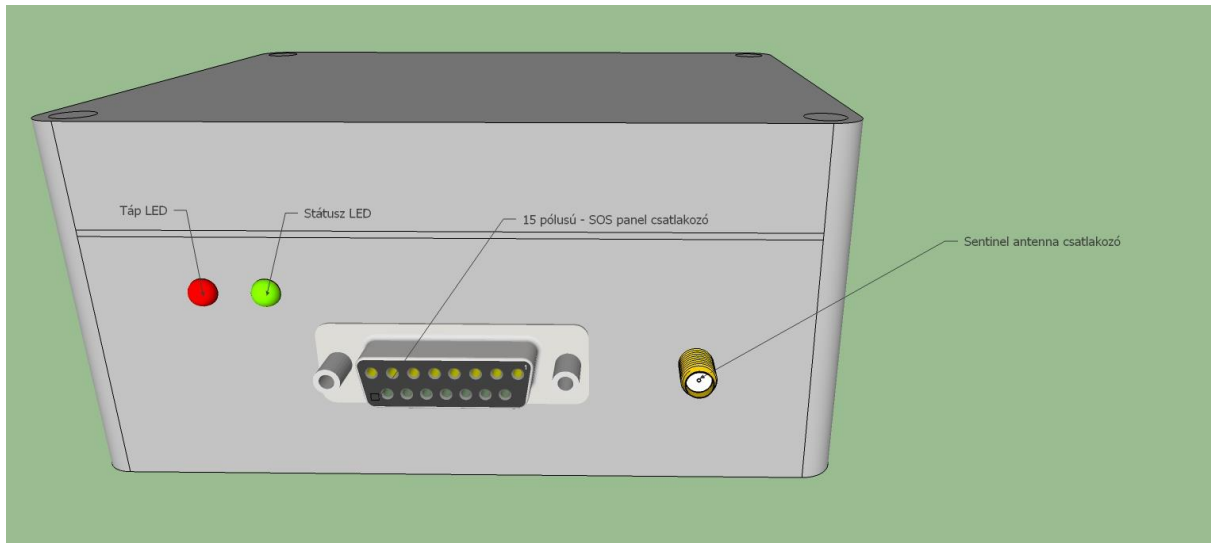
FIA International Sporting Code and appendices:

<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.

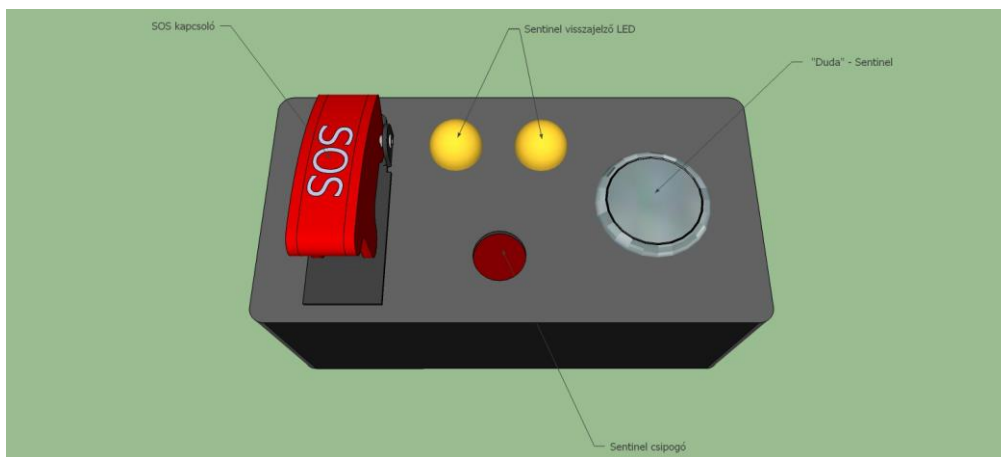
Alternate method is retrospective data analysis. In this case, the data collected what has been received by a specified time interval sets the database to a file, and the data can be evaluated from point to point.

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.



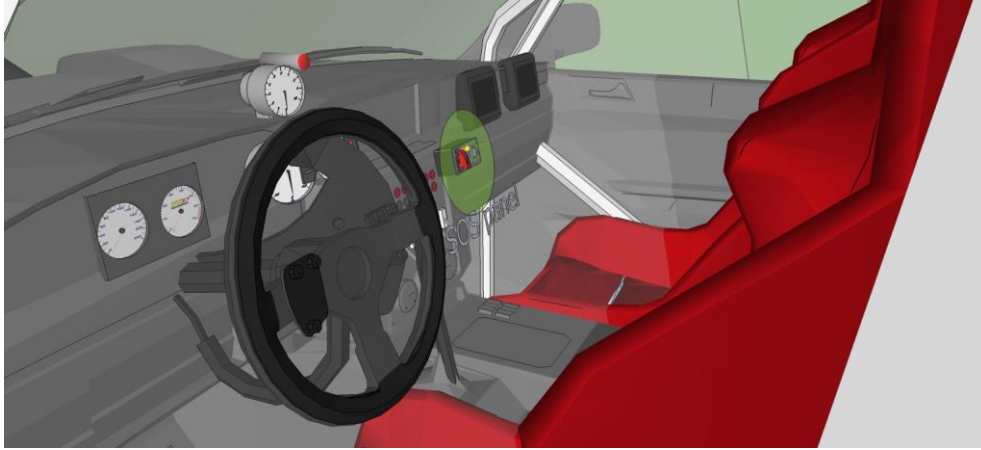
Pic.No. 3.: How to install 1.4



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 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 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 fixed penalty can only be used once on a race day.

Competitors who have not completed any selective stage on Friday 04/11/2022, may enter the Parc Fermé and continue the race on Saturday, 05/11/2022.

On Saturday, November 5, 2022, at least one selective stage must be completed by the competitor in order to be evaluated in the competition.

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 (125 km/h, 170 km/h) are monitored by the GPS system, exceeding them will be and punished by the Stewards..

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. CHALLENGE GROUP

Regulation: TROB Regulation and sporting rules 2022.

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 2022, but may also decide on immediate exclusion and initiate the revocation of the licence.

For CH category SS3- SS4 will be performed in shortened distance- but with the same points.

Reconnaissance of the entire Z-FUVAR Raid of the Champions route (Devecser – Sümeg – Tapolca – Nagyvázsöny) is forbidden!