



19-21.05.2017.



**HUNGARIAN OPEN CROSS-COUNTRY RALLY CHAMPIONSHIP
II. RUN(2x)
CEZ CHAMPIONSHIP, IV. RUN(2x)**

SUPPLEMENTARY REGULATION

**SAMS: 161001/2017
MNASZ: K-194/2017.04.19.**

T1, T2, T3, T4, TH, CH

Contents:

INTRODUCTION	2
PROGRAMS	4
1.DESCRPTION	6
2.ORGANIZER	7
3.ENTRIES	8
4.INSURANCE	9
5.ADVERTISING	9
6.IDENTIFICATIONS	9
7.TYRES	9
8.FUEL	9
9.ADMINISTRATIVE CHECKS	10
10.TECHNICAL SCRUTINEERING, SEALING AND MARKING	10
11.SUPERSPECIAL STAGE	10
12.START OF THE EVENT	10
13.RUNNING OF THE EVENT	10
14.SERVICEPARK	11
15.PROTEST AND APPEALS	11
16.FINAL CHECKS	12
17.RESULTS	12
18.PRIZES	12
19.ACCOMODATION	12
20.ORGANIZER'S OTHER ANNOUNCEMENTS	12

INTRODUCTION

RIVERSIDE BAJA is organised by **Garzone s.r.o** and **Garzone R.O.P. Kft.** and **Garia Kft.** on the 19-21. 05. 2017. .

The race has the following regulations, which will apply to all drivers and competitors signing the entry form:

- FIA International Sporting Code and it's appendices
- FIA Cross-Country World Cup regulations
- OTRB Regulation
- Present Supplementary Regulation and it's appendices
- Official Bulletins

Total distance: 730,20 km	397,00 RS km,	333,20 SS km,
19.05.2017	149,00 + 147,10 km	SSS – 22,30 km SS2 - 62,40 km SS3 – 62,40 km
20.05.2017	248,00 + 186,10 km	SS4 – 22,30 km SS5 – 62,40 km SS6 – 62,40 km SS7 – 11,00 km SS8 – 8,50 km SS9 – 11,00 km SS10 – 8,50 km

IVERSIDE BAJA's Main Locations		
Location	Address	GPS
Secretariat -1 Press Office Pickup the Safety Systems Administrative Check Technical Scrutineering Briefing Road book distribution	WALDORF SCHOOL 9700 Szombathely, 11-es Huszár str.40.	N47°14.534' E16° 37.364'
Park Fermé -1	11-th Laktanya from Huszár str. 9700 Szombathely, 11-es Huszár str.37-40.	N47°14.462' E16°37.507'
Service park	11-th Laktanya from Huszár str. 9700 Szombathely, 11-es Huszár str.37-40. Entrie(for service vehicles): Söptei Külső str.60	N47°14.625' E16°37.656'
Start	11- th Laktanya from Huszár str. 9700 Szombathely, 11-es Huszár str.37-40.	N47°14.462' E16°37.507'
Publication of Results after SSS Regrouping	FÉNYES VENDÉGLŐ ÉS PANZIÓ 9343 Beled, Rákóczi str.171.	N47° 27.974' E17° 05.698'
Washing opportunity	GOMBÁS AUTÓCENTRUM KFT. 9343 Beled, Rákóczi str.227/2.	N47°28.066' E17°05.091'
Opening Ceremony	ISEUM SAVARIENSE 9700 Szombathely, II. Rákóczi F.str.6-8.	N47°13.746' E16°37.351'
Secretariat – 2 (remote)	FÉNYES VENDÉGLŐ ÉS PANZIÓ 9343 Beled, Rákóczi str.171.	N47° 27.974' E17° 05.698'
Regrouping	11-th Laktanya from Huszár str. 9700 Szombathely, 11-es Huszár str.37-40.	N47°14.462' E16°37.507'
Leg Start	11- th Laktanya from Huszár str. 9700 Szombathely, 11-es Huszár str.37-40.	N47°14.462' E16°37.507'
Final Scrutineering	WALDORF SCHOOL 9700 Szombathely, 11-es Huszár str.40.	N47°14.534' E16° 37.364'
Publication of the Results - 2	WALDORF SCHOOL 9700 Szombathely, 11-es Huszár str.40.	N47°14.534' E16° 37.364'
Prize Giving Ceremony	ISEUM SAVARIENSE 9700 Szombathely, II. Rákóczi F. str.6-8.	N47°13.746' E16°37.351'

PROGRAM:

DATE	TIME	EVENT/ LOCATION
30.03.2017. Thursday	10:00	Opening date for Entries GarZone s.r.o. Vel'koblakovská 75/39, Dunajská Streda info@garzoneracing.com
10.05.2017. Wednesday	18:00	Closing date for Entries GarZone s.r.o. Vel'koblakovská 75/39, Dunajská Streda info@garzoneracing.com

DATE	TIME	EVENT/ LOCATION
19.05.2017 Friday	07:00	Opening Day for Secretariat and Press Office <i>Waldorf School, 9700 Szombathely, 11-es Huszár str.40.</i>
	07:00 – 10:00	Pick up of the Safety Systems <i>Waldorf School, 9700 Szombathely, 11-es Huszár str.40.</i>
	07:00 – 10:00	Administrative Check <i>Waldorf School, 9700 Szombathely, 11-es Huszár str.40.</i> According to the arrangement!
	07:00 – 10:30	Technical Scrutineering <i>Waldorf School, 9700 Szombathely, 11-es Huszár str.40.</i> According to the arrangement!
	09:00 - 10:40	Entrance to the Parc Fermé-1 <i>11-es Huszár str. Laktanya, 9700 Szombathely, 11-es Huszár str.37-40.</i>
	10:50	First Steward Meeting <i>Waldorf School, 9700 Szombathely, 11-es Huszár str.40.</i>
	11:00	Briefing Road Book distribution Publication of Entry List <i>Waldorf School, 9700 Szombathely, 11-es Huszár str.40.</i>
	12:00	Leg 1 Start <i>11- es Laktanya from Huszár str.9700 Szombathely, Huszár str.37-40.</i>
	12:55	SSS Start
	14:00	Publication of Results after SSS Regrouping, Service Choosing Starting Order after SSS <i>Fényes Vendéglő és Panzió, 9343 Beled, Rákóczi str.171.</i>
	14:45	SS2 Start
	15:25	Refuelling, According to Road Book

<u>16:25</u>	SS3 Start
<u>17:20</u>	Regrouping, Wash <i>Gombás Autócentrum Kft, 9343 Beled, Rákóczi str.227/2</i>
<u>18:50</u>	Service According to Road Book <i>11- es Laktanya from Huszár str.</i> 9700 Szombathely, 11-es Huszár str.37-40.
<u>21:30</u>	Publication of the Results <i>Waldorf School, 9700 Szombathely, 11-es Huszár str.40.</i>
<u>21:30</u>	Publication of Start List Leg 2 Closing of the Secretariat <i>Waldorf School, 9700 Szombathely, 11-es Huszár str.40.</i>
<u>21:40</u>	Start Ceremony According to Road Book <i>Iseum Savariense, 9700 Szombathely, II. Rákóczi F str.6-8.</i>
<u>22:00</u>	Finish Leg 1 <i>11- es Laktanya from Huszár str.</i> 9700 Szombathely, 11-es Huszár str.37-40.

DATE	TIME	EVENT/ LOCATION
20.05.2017 Saturday	<u>06:30</u>	Opening Secretariat and Press Office <i>Waldorf School, 9700 Szombathely, 11-es Huszár str.40.</i>
	<u>07:00</u>	Leg 2 Start <i>11- es Laktanya from Huszár str.</i> 9700 Szombathely, 11-es Huszár str.37-40.
	<u>08:00</u>	SS4. Start
	<u>08:15</u>	Refuelling, according to Road Book
	<u>09:55</u>	SS5. Start
	<u>10:20</u>	SS6. Start
	<u>11:15</u>	Regrouping, Wash, according to Road Book <i>Gombás Autócentrum Kft, 9343 Beled, Rákóczi str.227/2</i>
	<u>12:35</u>	Service, Refuelling, According to Road Book
	<u>13:40</u>	Regrouping <i>11- es Laktanya from Huszár str.</i> 9700 Szombathely, 11-es Huszár str.37-40.
	<u>14:40</u>	SS7. Start (3 min. preparation time!)
	<u>15:10</u>	SS8. Start (3 min. preparation time!)

<u>15:24</u>	Regrouping, Wash, according to Road Book
<u>15:47</u>	Service, Refuelling, according to Road Book <i>11-es Huszár úti Laktanya</i> 9700 Szombathely, 11-es Huszár str.37-40.
<u>16:12</u>	Regrouping <i>11-es Huszár úti Laktanya</i> 9700 Szombathely, 11-es Huszár str.37-40.
16:50	SS9. Start (3 min. preparation time!)
17:20	SS10. Start (3 min. preparation time!)
<u>17:34</u>	Regrouping, Wasch, according to Road Book
<u>17:59</u>	Regrouping, Parc Fermé Leg 2 Finish
<u>18:15</u>	Final Scrutineering <i>11-es Huszár úti Laktanya</i> 9700 Szombathely, 11-es Huszár str.37-40.
<u>19:20</u>	Publication of Provisional Results Waldorf School, 9700 Szombathely, 11-es Huszár str.40.
<u>19:50</u>	Publication of Final Results Waldorf School, 9700 Szombathely, 11-es Huszár str.40.
20:00	Prize-Giving Ceremony According to Road Book <i>Iseum Savariense</i> 9700 Szombathely, II. Rákóczi F str.6-8.

1. DESCRIPCION

1.1 PLACE AND DATE OF THE EVENT:

RIVERSIDE BAJA is held in Szombathely surroundings, county Vas, Hungary.

19.05.2017.

Administrative check at the scheduled time: **Waldorf School, 9700 Szombathely**
Scrutineering at the scheduled time: **Waldorf School, 9700 Szombathely**

Start:	Szombathely
Selective stages:	SSS – SS2 – SS3
Servicepark:	Szombathely
Start Ceremony:	Szombathely
Day Finish :	Szombathely

2017.05.20.

Start:	Szombathely
Selective stages:	SS4 – SS5 – SS6 – SS7 – SS8 – SS9 – SS10
Servicepark:	Szombathely
Day Finish :	Szombathely
Prize Giving Ceremony:	Szombathely

1.2 THE RACE:

RIVERSIDE BAJA is

the fourth FIA Central European Zone (CEZ) Championships official double point giving race, and the second Open Hungarian Cross-Country Rallye Championship official double point giving race, National event with allowed foreign participation

1.2 VISA NR:

SAMS: 161001/2017

MNASZ: K-194/2017.04.19.

1.4 SECRETARIAT LOCATION:

Location: **WALDORF SCHOOL** 9700 Szombathely, **11-es Huszár str.40.**

Time: See above in Time Schedule

1.5 START/ FINISH LOCATION:

Start Location:

Location: **11-es Huszár úti Laktanya, 9700 Szombathely, 11-es Huszár str.37-40.**

Time: **19.05.2017 12:00**

Start Ceremony:

Location: **ISEUM SAVARIENSE** 9700 Szombathely, **II. Rákóczi F. str. 6-8.**

Time: **19.05.2017 21:30**

Finish Location:

Location: **11-es Huszár úti Laktanya 9700 Szombathely, 11-es Huszár str.37-40.**

Time: **20.05.2017 17:59**

1.6 PRESS OFFICE LOCATION:

Location: **WALDORF SCHOOL** 9700 Szombathely, **11-es Huszár str. 40.**

1.7 Official Notice Bord Location:

Location: **WALDORF SCHOOL** 9700 Szombathely, **11-es Huszár str.40.**

1.8 The average altitude above sea level of the Selective Sections:

The average altitude above sea level of The Riverside Baja's Selective Sections is under 1000 metres. Based on these the size of the competition vehicles are restricting according to the Rule Book OTRB.9.2.4 point.

2. ORGANIZER

2.1 ORGANIZER'S NAME:

Garzone s.r.o., Garzone R.O.P.Kft.,Marco Racing Team Kft.,and Garia Kft.

2.2 ORGANIZER'S ADDRESS AND CONTACT DETAILS:

GarZone s.r.o. Vel'koblahovská 75/39, Dunajská Streda

info@garzoneracing.com

Phone: [+36 30/791-4270](tel:+36307914270)

Garzone R.O.P. Kft. 8200 Veszprém, Eszterházy str. 7-9.

Responsible for competition: **Garamvölgyi Zoltán**

tel.: +36 30/791-4270 , info@garzoneracing.com

2.3 ORGANIZER'S COMMITTEE:

Patron: Mr.Györfy Balázs, President of the National Agricultural Chamber of Commerce

President of the organising committee: Mr. Garamvölgyi Zoltán

Members of the organising committee:	Mr. Németh Sándor Mr. Markó Tibor Mr. Garamvölgyi Lajos
Clerk of the course:	Mr. Polgár László
Safety Officer:	Mr. Németh Sándor – Kékfény Security
Secretary of the Rallye:	Ms. Tóth Tímea
Press Officer:	Mr. B. Molnár László

2.4 STEWARDS OF THE MEETING:

Chairman of the Stewards	Mr. Oroszlán Tibor
Members	Mr. Ládi István (SK) Mr. Selmeczi György

2.5 SENIOR OFFICIALS:

Clerk of the course:	Mr. Polgár László
Steward of Technical:	Mr. Balla Zoltán
Scrutineering Chief:	Mr. Tüskés László
Medical Officer:	Dr. Vajda Márk
Safety Officer:	Mr. Németh Sándor – Kékfény Security
Head of Secretary:	Ms. Tóth Tímea
Relation's Officer:	Ms. Kulcsár Gabriella
Press Officer:	Mr. B. Molnár László
Timekeeping Results:	ChronoMoto Kft.
GPS Control Results:	M-Info

2.6 IDENTIFICATION OF OFFICIALS:

MNASZ identification- everyone.
Chief Post Control: Red west, Timekeeper and Marshall: White west

3. ENTRIES

3.1 DATES:

Opening Entries:	30.03.2017.
Closing Entries:	10.05.2017.

3.2 ENTRY PROCEDURE:

Entries, together with the proof of transfer payment should be sent to the following address:

GarZone s.r.o. Vel'koblahovská 75/39, Dunajská Streda - Slovakia

info@garzoneracing.com

[Phone: +36 30/791-4270](tel:+36307914270)

3.3 NUMBER OF ENTRIES AND GROUPS:

Groups: T1, T2, T3, T4, TH, Challenge

3.4 ENTRY FEES, OTHER:

T1 - T2 - T3 class:(without advertising x1.5)	750 €
T4 csoport (shortened distance, total 294.2 km SS):.....	750€
TH class:(without advertising x1.5)	350 €
Challenge (without advertising x1.5)	200 €
Team Registration:	100 €
Basic service plate/vehicle(50 m ² area):	Included in Entry fee!
Additional service area (50m ²):60 €

Service vehicle entry permission (Windshield sticker):.....30 €

For a Service area up to 50m², max 2 entry permission can be purchased!

Teams, who might want to enter with more vehicles, must purchase an additional 50m² service area, with additional 2 entry permission to purchase. Service areas requested and the number of service vehicles has to be indicated on the Entry Form.

Trailers, Motorhomes, Promotion Vehicles:60 €

Additional Mandatory Liability InsuranceIncluded in Entry Fee!

GPS + Overtaking system rental..... Included in Entry fee!

Caution for GPS + Overtaking system150 €

GPS + Overtaking system installation package:you can buy it for 50 € or you can rent it for 20 €.

On-site registration: Registration after the 'Deadline for entries' is considered on-site registration for the organizer! (150% of the entry fee). On-site entry is only possible if the crew will send their entry form to the organizer up to the entry deadline, and and **200€** -paid in advance

The entry form will only be accepted after confirmation of the entry fee / advance payment of the entry fee.

3.5 PAYMENT METHOD:

All entry fees should be transferred to the following bank account before the Closing Entry:

Garzone s.r.o.

Bank neve: **Slovenská Sporitelna, as.**

Szla. Szám: **5063476359/0900**

Swift code: **GIBASKBX**

IBAN: **SK2609000000005063476359**

The Application form will be accepted only with the proof of payment of the fee. Entries, after the Entry Deadline, will be considered 'Registration on the spot' by the Organizer! (150%)

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

4. INSURANCE

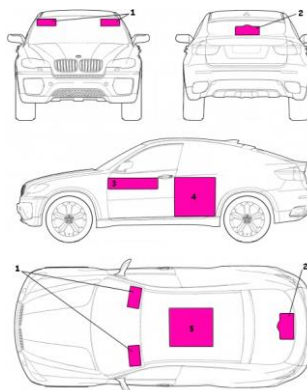
Insurance information according to 2017. **General Prescription.**

5. ADVERTISING

5.1 ADVERTISEMENTS:

1. 2 pc Start number Panels with Ads
2. 2 pc Advertising Panels (52x50)
3. 1 pc rally plate (43x21cm)
4. 2 pc (25x10cm) windscreen decals
5. – it will not be issued

More: In the Bulletin.



6. IDENTIFICATION

Rally plates, competitors name.

7. TYRES

According MNASZ **General Prescription** and Art nr **19.** in the Supplementary Regulation.

8. FUEL

Only commercially available fuel can be used, without adding any additives. Fuelling only at the marked Petrol Stations in the Road Book and at the designated area. Refuelling only at the indicated

refuelling stations and places in the Supplementary Regulation.

9. ADMINISTRATIVE CHECK

9.1 LOCATION: WALDORF SCHOOL, 9700 SZOMBATHELY, 11-ES HUSZÁR STR.40.

9.2 TIMES SCHEDULE:

19.05.2017 07:00-10:00 ACCORDING TO THE ARRANGEMENT!

GPS tracking system rental is compulsory before the checking.

9.3 DOCUMENTS TO BE PRESENTED:

- Competitors Licence
- Driver and Navigator's licence
- Driver and Navigator's valid Driving Licence/ Except CH Navigator according to General Prescription
- ASN Licence for foreign competitors/ International Licence
- Entry Form- fully completed
- Compulsory car insurance policy
- Vehicle registration document or temporary traffic permission for SP numbers and belonging Start Diary
- Authorization from the owner of the vehicle in case is other than the driver or navigator
- FIA Technical Passport, or ASN Passport for competitors with foreign licences
- Starting Permission (who is concerned)

10. TECHNICAL SCRUTINEERING, SEALING AND MARKING

10.1 LOCATION: Waldorf School 9700 Szombathely, 11-es Huszár str.40.

ANY MEMBER OF THE TEAM CAN TAKE THE VEHICLE FOR THE TECHNICAL SCRUTINEERING WITH THE TEAM'S AGREEMENT

10.2 TIMES/SCHEDULE:

19.05.2017 07:00 -10:30 According to the arrangement!

10.3 PARC FERMÉ:

Following the technical scrutineering, each vehicle must be set in Parc Fermé for the starting preparation **19.05.2017.** between **09:00 and 10:40.** See 12.1.

10.4 NECESSARY CONDITIONS:

- Competing vehicle
- Gps devices and Tracking systems fitted, in working condition.
- All rally panels, competition numbers and advertising panels fitted properly to the required places.
- Scrutineering Sheet- filled up
- Homologation Form, valid Technical Passport
- Compulsory fire-resistant clothing, requirement corresponding helmets and FHR system/ according to General Prescription
- Technically corresponding and approved size fire extinguisher properly fitted in the car
- Warning triangle, survival kit

10.5 SAFETY REQUIREMENTS:

Everyone is obliged to use a GPS tracking system for vehicles and equipment. Competitors must hire or buy them before the Administrative Check.

11. SUPERSPECIAL STAGE

Super Special will be held on 19.05.2017. Following the superspecial, at the regrouping area in the Beled, according to the SSS results- the first 5 competitors will choose their starting order for the next selective. The rest of the competitors starting order will be according to their positions achieved in the SSS. First, T1, T2 , T3, T4 vehicles , followed by TH vehicles, followed by Challenge category.

12. START OF THE EVENT

12.1 PARC FERME BEFORE THE OFFICIAL START:

LOCATION: 11-es Huszár úti Laktanya, 9700 Szombathely, 11-es Huszár str.37-40.
DATE: 19.05.2017. 09:00-10:40

12.2 BRIEFING/ ROAD BOOK PROVIDING: (COMPULSORY)

LOCATION: WALDORF SCHOOL, 9700 SZOMBATHELY, 11-ES HUSZÁR STR.40.
DATE: 19.05.2017. 11:00

12.3 PUBLICATION OF STARTING LIST AND STARTING POSITION:

ACCORDING TO THE PROGRAMME ABOVE.

12.4 START CEREMONY/OFFICIAL START:

ACCORDING TO THE PROGRAMME ABOVE.

13. RUNNING OF THE EVENT

13.1 ROAD BOOK PROVIDING

LOCATION: WALDORF SCHOOL, 9700 SZOMBATHELY, 11-ES HUSZÁR STR.40.
TIME: 19.05.2017 11:00

13.2 TIME CARD PROVIDING/EXCHANGES

Time cards will be provided to the participants each day before starting of the Leg, which has to be returned at the Finish.

Time Card exchanges: TC/IE 11, TC/IE 27, TC/IE 35,

13.3 LIMITED TIME DELAY

Delays between two time controls as well as the delay of the day- is limited to **15 minutes**. Exceeding this time, competitors will be excluded from the race.

13.4 FIXED PENALTY

On racing days, those competitors who got fixed penalties can restart to the race- at the stages of IE/TC 5, IE/TC 11, IE/TC 12, IE/TC 28, IE/TC 35, IE/TC 43. until the first vehicle's planned time, in compliance with the other rules described in the TROB rule book.

13.5 EARLY CHECK IN AT THE END OF LEG:

In case of early arrival at the end of Leg to the Parc Ferme Finish, at the time controls, competitors will not be penalized. TC/IE 16, TC/IE 43,

13.6 Parc Fermé:

Before the Start and between Legs, all vehicles must be placed to the Parc Ferme (for the night).

Location: 11-es Huszár úti Laktanya 9700 Szombathely, 11-es Huszár str.37-40.

13.7 FAULT START:

Vehicles, that cannot take the Start- in accordance with the TROP General Prescriptions point 41.1 can be pushed out from the timecontrol zone.

14. SERVICEPARK

14.1 LOCATIONS:

11-es Huszár úti Laktanya

9700 Szombathely, 11-es Huszár str.37-40.

Entry (for service vehicles): Söptei Külső str.60

14.2 OTHER:

Refuelling and washing in the Service Park area is prohibited. Filling stations and Carwashes are indicated in the Road Book for each Legs.

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

Using a min 5x4m protector canvas 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!

15. PROTEST AND APPEALS

Protest fees:	General:	350 €
	Technical:	350 €

16. FINAL CHECKING

LOCATION: WALDORF School 9700 Szombathely, 11-es Huszár str.40.

TIME: 19.05.2017. from 18:15

17. RESULTS

17.1 PROVISIONAL OVERALL CLASSIFICATION PUBLICATION:

LOCATION: WALDORF SCHOOL, 9700 Szombathely, 11-es Huszár str.40.

TIME: 19.05.2017 19:20

17.2 FINAL OFFICIAL CLASSIFICATION PUBLICATION:

LOCATION: WALDORF SCHOOL, 9700 Szombathely, 11-es Huszár str.40.

TIME: 19.05.2017 19:50

18. PRIZES

18.1 PRIZE GIVING CEREMONY:

LOCATION: Iseum Savariense 9700 Szombathely, II. Rákóczi F str.6-8.

Time: 19.05.2017 20:00

Absolute1-3 - cup
Categories1-3 - cup

19. ORGANIZER'S OTHER ANNOUNCEMENTS

To prevent the conditions of selective sections, held on 20 May 2017, the use of tyres are to be regulated as follows in case of SS7, SS8, SS9, SS10. Regarding vehicles with a total weight of over 1,000 kg, tyres are restricted to use by type, and tread depth. The allowed tread depth can not exceed 10 mm. Tyres, which are in compliance with this rule for sure are –widely-known in cross-country rally- BFGoodrich All Terrain, Michelin All Terrain, Fedima, F/Terrain, BFGoodrich G1 Rock, Michelin Rock, and Fedima F/Guide. The use of mud tyres (Mud, MT) is FORBIDDEN!

Restrictions on tyres are to be checked by the Technical Committee.

It is strictly forbidden to recce along the route of Riverside Baja!

Different from the MNASZ General Sporting Rules&Regulations for Cross- Country Rally but due to considering the concept and 'short' selective sections of Iseum Rallye, on the second day of Riverside Baja (20 May 2017.) from SS7 to SS10, time for preparation before Selective Start is reduced to 3 minutes and competitors start by one minute each.

Route of competing cars at Riverside Baja is partly on road M86, which became a toll road as of January 2017. To pay toll for competing vehicles is compulsory and the only responsibility of the competitors. For further information please check: <http://www.utdij.hu/hirek/uj-fizetos-utak-2017-ben/>

New toll roads in 2017: M86 and Vas county. M86 was extended with a new section between the settlements of Hegyfalú and Csorna up to Szombathely, for this very reason M86 is a toll road as of 1 January 2017 and so Vas county was also put on the list of vignettes-bound counties.

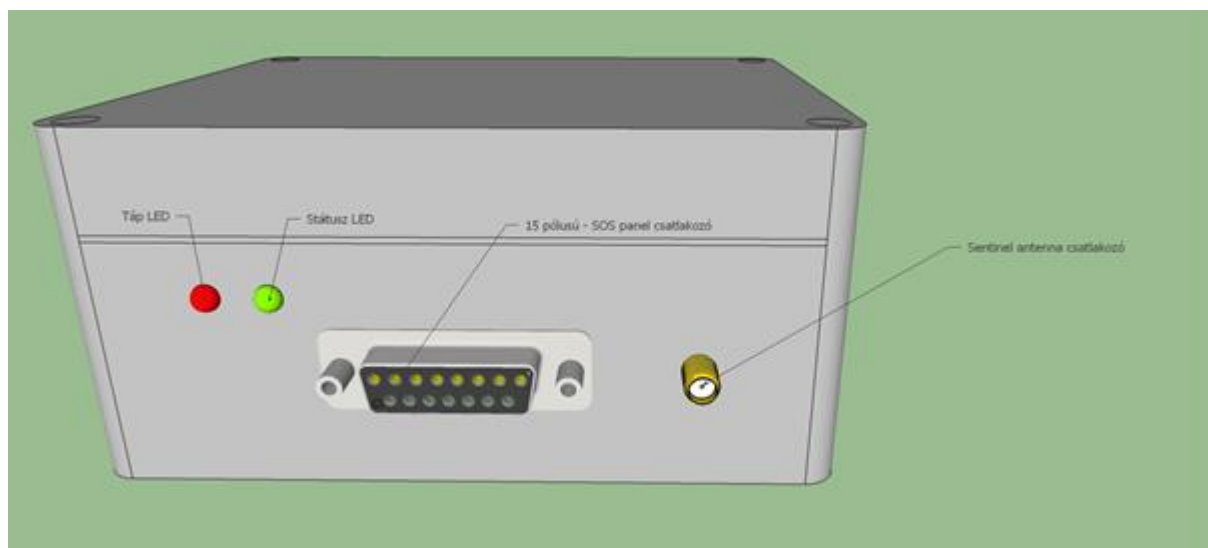
Failure to comply with the rules, on the basis of scrutineers report- the level of penalties is determined by the Stewards.

Licence nr: **SAMS: 161001/2017**

MNASZ: K-194/2017.04.19.

Cross-Country Rally Committee

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 in 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.

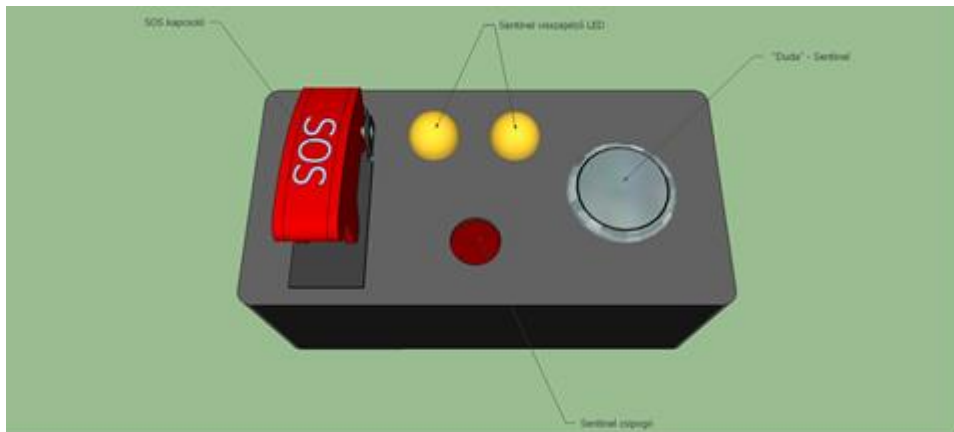
Sentinel function

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 Sentinel has two functions:

- "Toot" function, which indicates the overtaking intent of a Sentinel 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.

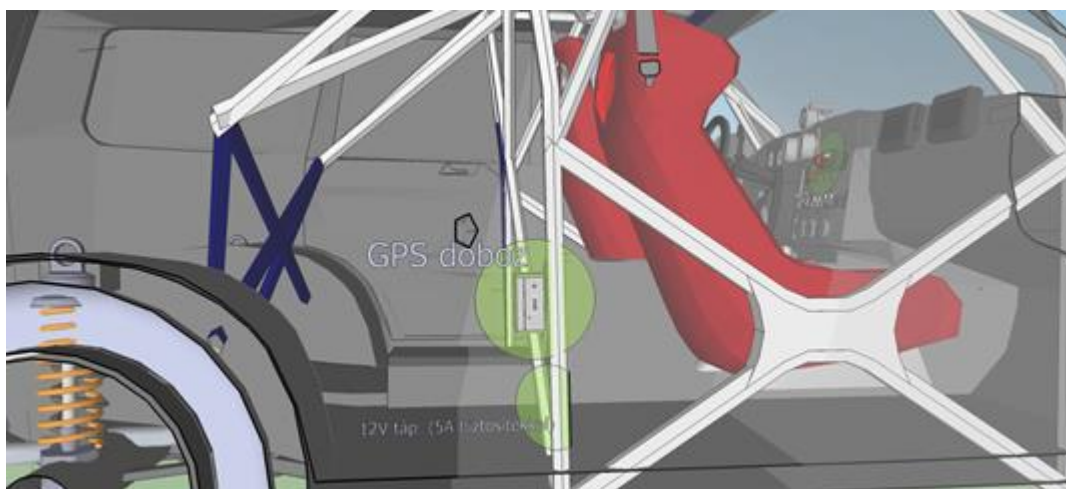


Pic. No. 2.: **SOS Panel** Sizes: 95x48x67mm Weight: 120 g

Tool installation

- SOS panel, Sentinel 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.

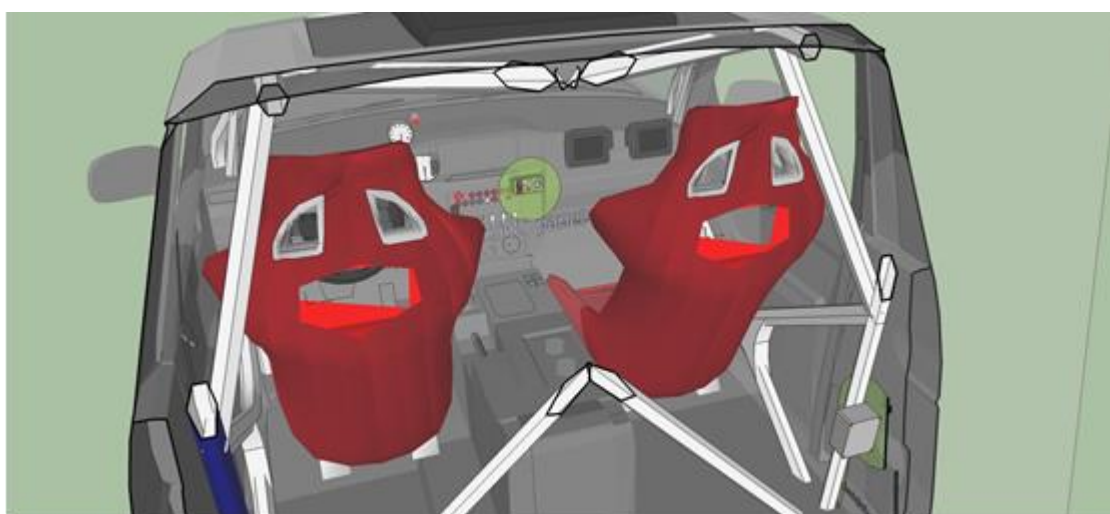
- Installing the device: The device received at the Administrative check must be connected to the previously purchased and installed SOS panel and Sentinel antenna. The device must be fixed in the right column B with 2 clamps so that the device does not move and the visibility ensured.



Pic. No. 3.: How to install 1.



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.

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