

**Datum:** 2018-02-05 **Tid:** 14.00

**Ämne:** BULLETIN Nr: 1 **Dokument Nr:** 1.1

*Från:* Tävlingsledaren

*Till:* Samtliga tävlande  
 Antal sidor: 3 Bilagor: 4

## TILLÄGGSREGLERNA

### Art. 2.6 FIA Delegater

FIA Sportdelegat: Arnaud Crepin

FIA Läkardelegat: Jean Duby

### Art. 3.2 Aktiviteter under rallyveckan

**14.00 – 20.00 Tisdag 13 februari**

Utlämning av FIA Safety Emergency Console

**15.00 – 18.00 Onsdag 14 februari**

Återlämning av GPS Trackers för rekognosering

### Art. 6.2 Arrangörens reklam

#### BILAGA 4. TÄVLINGSNUMMER OCH REKLAM

Arrangörens reklam på dörrsidor är "VÄRMLAND". Ingen arrangörsreklam kommer i övrigt att tillämpas.

### Art. 7.1 Däck

FIA Nominated Tyre Manufacturer	Tyre	Compound
Michelin	15/65 15 X-ICE NORTH 3 L CL 15/65 15 X-ICE NORTH 3 R CL	Ice
D-Mack	205/65-R15 DMG-ICE -ICE2	Ice
Pirelli	205/65-15 SOTTOZERO ICE 1 Left 205/65-15 SOTTOZERO ICE 1 Right	Ice

### Art 11 BESIKTNING

Påminnelse! Rallydubbade däck är förbjudna i besiktningslokalen/Stjerneskolans lokaler.

Se även Art. 15.1.

Max 3 mekaniker får följa bilen till besiktningen (2 för bilen och 1 för den personliga utrustningen).

I tillägg, 2 mekaniker får följa servicebilen med reservdelar.

### 11.1 Besiktningstider

#### A) BESIKTNINGSTIDER– BILAR ANMÄLDA AV EN TILLVERKARE

Sealing for Manufacturers' cars Rally Sweden 2018				
Date: Wednesday 14/02/2018				
Location: Service Park				
	Nb cars	Time		N°
M-SPORT FORD WORLD RALLY TEAM	3	9h00	9h45	1 - 2 - 3
HYUNDAI SHELL MOBIS WRT	3	9h45	10h30	4 - 5 - 6
TOYOTA GAZOO RACING WRT	3	10h30	11h15	7 - 8 - 9
CITROEN TOTAL ABU DHABI WRT	3	11h15	12h00	10 - 11 - 12

Scales Available for Manufacturers Location: Tech Zone / Service Parc	From 11h30 to 13h00
--------------------------------------------------------------------------	---------------------

#### B) BESIKTNING ÖVRIGA BILAR– STJERNESKOLAN – TORSBY

Se bilaga nr 1.

### 12.5 Super Special Stage, genomförande och startordning

Tillåten maxtid på SS1 och SS 15 är 5 minuter. Tävlade som inte fullföljer SS 1 eller SS 15 inom 5 minuter kommer att betraktas som bruten med möjlighet att starta om i enlighet med Art 46 i FIA Sporting regulations.

### 12.7 Brutna bilar som startar om, Rally 2

Tävlade som inte fullföljer en sektion måste informera tävlingssekreteraren: Tel: 072-2366731  
För generella frågor till Race Control: Tel: 054 10 0646

### BILAGA 2 RECCE SCHEMA

Korrekt recce schema är bifogat i bilaga 4.

### BILAGA 6 - FIA SAFETY EMERGENCY CONSOLE – INSTALLATIONS- OCH ANVÄNDARMANUALER

Manualer är bifogade i bilaga 2 och 3

## 2018 FIA WORLD RALLY CHAMPIONSHIP REGULATIONS

### Art. 40.3.3:

Delete as follows:

~~“A green LED on the emergency console will then remain illuminated for the duration of eight seconds, which is confirmation for the crew that the switch has been activated correctly.”~~

**Art. 40.5.1 Electronic Red Flags**

Points a), b) and c) are replaced as follows:

“Electronic red flags will be used in all competing cars. When activated from rally control, the screen of the FIA Emergency Console will turn red and show the message “RED FLAG”. Crews must immediately confirm the electronic Red Flag by pressing the button “ACKNOWLEDGE” and proceed as specified in Art. 40.5.3.”

**Art. 51.3 Running of Flexi Service**

For JWRC competitors, flexi-service regulation in accordance to Art. 51.2 in the FIA WRC Sporting regulation applies.

**As per WRC Art. 60.3, the following drivers are requested to use tyres from FIA-nominated tyre company :**

NIKARA Jarkko  
JIRVELIUS Mattias  
SOLANS Nil  
SANDBERG Kjell  
HOLMBERG Johan  
ANDERSSON Johnny  
ALSDAL Fredrik  
SELMER Christian August  
HOELBLING Luca  
MOLINARO Tamara  
VIDAL Amador  
ROMAN Joakim  
KRISTOFFERSSON Johan

**Appendix VIII Art. 6.2**

JWRC drivers will be allowed 22 pcs of Pirelli Sottozero ICE (185/65-15) WJ for the whole event.



**Christina Lundqvist Viklund**  
Clerk of the course

<u>Time</u>	<u>Car n°</u>	<u>Crew</u>	<u>Car</u>	<u>Gate</u>	
15:00	14	SOLBERG / MENKERUD	Ford Fiesta WRC	4	
15:03	37	BERTELLI / SCATTOLIN	Ford Fiesta WRC	4	
15:06	97	BLOMBERG / ANDERSSON	Mitsubishi Mirage	2	(nat)
15:09	81	NIKARA / ADACHI	Ford Fiesta R5	4	
15:12	83	SOLANS / SOTOS	Ford Fiesta R5	4	
15:30	21	AL RAJHI / ORR	Ford Fiesta WRC	4	
15:33	35	KATSUTA / SALMINEN	Ford Fiesta R5	4	
15:36	98	CARLSTRÖM / NORMAN	Mitsubishi Mirage	2	(nat)
15:39	85	HOLMBERG / BÄCK	Ford Fiesta R5	4	
15:42	86	ANDERSSON / JOHANSSON	Ford Fiesta R5	4	
16:00	31	TIDEMAN / ANDERSSON	Skoda Fabia R5	4	
16:03	32	VEIBY / SKJÆRMOEN	Skoda Fabia R5	4	
16:06	99	KARLSSON / NILSSON	Mitsubishi Mirage	2	(nat)
16:09	82	JIRVELIUS / GUSTAFSSON	Skoda Fabia R5	4	
16:12	84	SANDBERG / LÖNNMARK	Skoda Fabia R5	4	
16:30	33	PIENIAZEK / MAZUR	Skoda Fabia R5	4	
16:33	38	SCANDOLA / GASPARI	Skoda Fabia R5	4	
16:36	100	LARSSON / ODDSHAMMAR	Mitsubishi Mirage	2	(nat)
16:39	87	ALSDAL / NILSSON	Skoda Fabia R5	4	
16:42	89	HOELBLING / GRASSI	Skoda Fabia R5	4	
17:00	36	ARAI / MACNEALL	Ford Fiesta R5	4	
17:03	39	SHAYMIEK / TSVETKOV	Ford Fiesta R5	4	
17:06	101	FRISERO / AGNESE	Mitsubishi EVO IX	2	(nat)
17:09	88	SELMER / SELMER	Ford Fiesta R5	4	
17:12	90	MOLINARO / WYDAEGHE	Ford Fiesta R5	4	
17:30	40	ABBRING / TSJOEN	Ford Fiesta R5	4	
17:33	46	LINARI / ARENA	Ford Fiesta R5	4	
17:36	34	HUTTUNEN / LINNAKETO	Hyundai i20 R5	2	
17:39	93	BRÅDHE / WERNEFUR	Peugeot 208 R2	4	
17:42	94	JOCIUS / ZVICEVIVIUS	Peugeot 208 R2	4	
18:00	41	ÅHLIN / SJÖBERG	Skoda Fabia R5	4	
18:03	42	ADIELSSON / JOHANSSON	Skoda Fabia R5	4	
18:06	75	PROTASOV / CHEREPIN	Citroen DS3 R3	2	
18:09	43	TUOHINO / HÄMÄLÄINEN	Skoda Fabia R5	4	
18:12	44	STUGEMO / LEXE	Skoda Fabia R5	4	
18:30	45	BERG / SUORSA	Skoda Fabia R5	4	
18:33	92	ROMAN / BUSKAS	Skoda Fabia R5	4	
18:36	76	LARIO / HÄMÄLÄINEN	Peugeot 208 R2	2	
18:39	91	VIDAL / CAMACHO	Mitsubishi EVO X	4	
18:42	95	WIEROMIEJCZYK / WROBEL	Peugeot 208 R2	4	
19:00	61	BERGQVIST / FLØNE	Ford Fiesta R2	4	
19:03	62	FOLB / GUIEU	Ford Fiesta R2	4	
19:06	102	KRISTOFFERSSON / BARTH	Skoda Fabia R5	2	
19:09	63	RÅDSTRÖM / JOHANSSON	Ford Fiesta R2	4	
19:12	64	SIRMACIS / SIMINS	Ford Fiesta R2	4	

19:30	65	TORN / SIKK	Ford Fiesta R2	4	
19:33	66	TANNERT / HEIGL	Ford Fiesta R2	4	
19:36	96	RYRLÉN / BENGTTSSON	Ford Fiesta R2	2	
19:39	67	DEVINE / MORIARTY	Ford Fiesta R2	4	
19:42	68	HOLDER / FARMER	Ford Fiesta R2	4	
20:00	69	FRANCESCHI / COURBON	Ford Fiesta R2	4	
20:03	70	BOTTARELLI / FENOLI	Ford Fiesta R2	4	
				2	
20:09	71	CHALAL / RENUCCI	Ford Fiesta R2	4	
20:12	72	WILLIAMS / HALL	Ford Fiesta R2	4	
20:30	73	FERNANDEZ PIRAINO / RIQUELME	Ford Fiesta R2	4	
20:33	74	OLDRATI / FAPPANI	Ford Fiesta R2	4	

## SAS Fitting Kit Manual – RALLY CAR

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### **\*\*Product Disclaimer\*\***

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## Fitting Kit Components

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The RallySafe Kit includes:

- RallySafe Installation and Fitting Kit Instruction Sheet;
- 3-in-1 antenna with leads;
- Internal radio antenna with lead;
- 6 – 24v wiring loom with plug;
- Mount, to be bolted to tunnel;
- Adjustable mount connector/knuckle.



(Contents may differ slightly to image shown)

## 12 Volt Power Supply (Please read carefully)

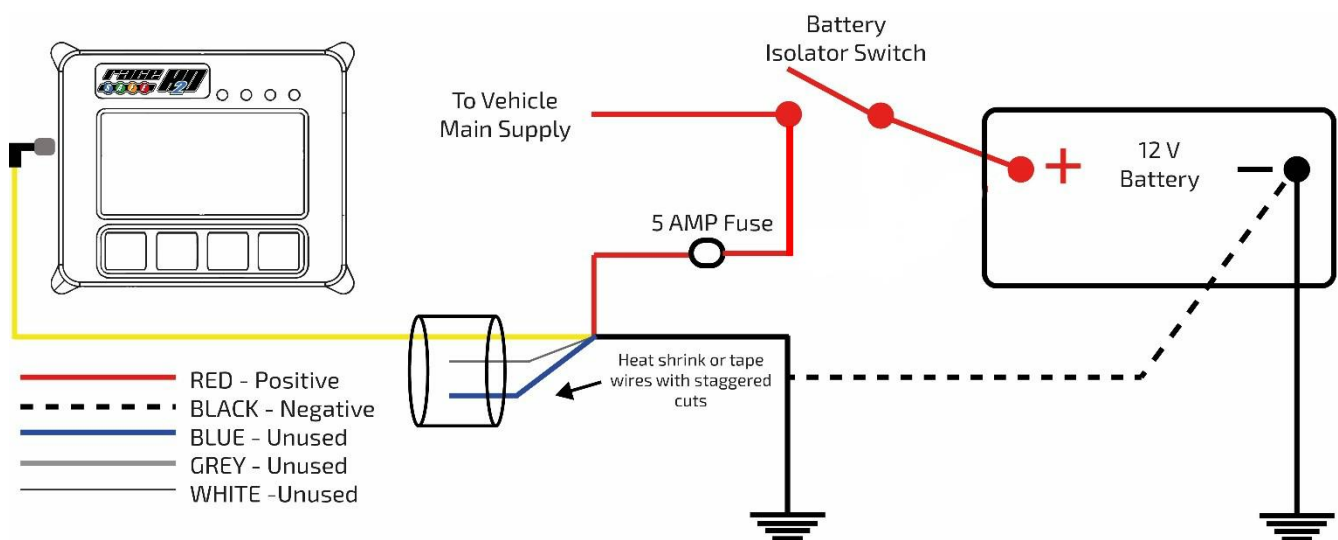
RallySafe requires a reliable power supply from 9 to 28 volts DC. We recommend a 5 amp (Max) blade type or similar quality fuse is used at the battery supply end of the RallySafe power lead.

**Zero volts or battery negative can be picked up at any suitable earthing point providing the isolation switch does not switch the negative side of the battery.**

The RallySafe unit has an internal battery that is kept charged via the car's power supply. It acts as a reserve supply to power the unit in the case of an accident where a car's power supply is interrupted. i.e. car battery smashed or dislodged.

In the yellow power loom there are 5 wires. **White blue and grey must be stagger cut and heat shrunk or taped back so they can't short to ground or to each other.** Red and black are used as follows:

## Connection Diagram



**RALLYSAFE 12V WIRING DIAGRAM**

## Unit Mounting & Dimensions

For mounting the RallySafe unit is a RAM style 50mm x 75mm flat base with ball, bolted through the tunnel with 4 M6 Bolts. It should be in a central, protected location on the central tunnel in front of the seats and both easily visible and accessible by both the driver and co-driver/nav. Photographs of mounting and positioning can be seen below.

### MOUNTING EXAMPLES



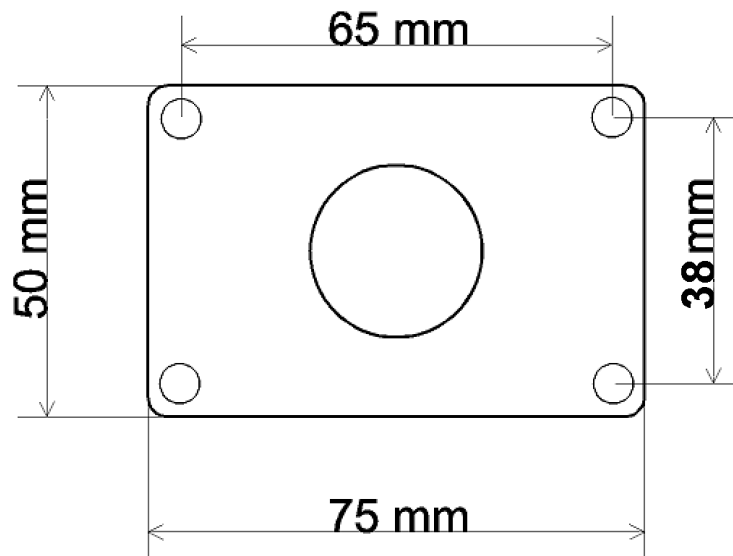
*Here the 25mm rubber ball mount is securely attached to the tunnel.*



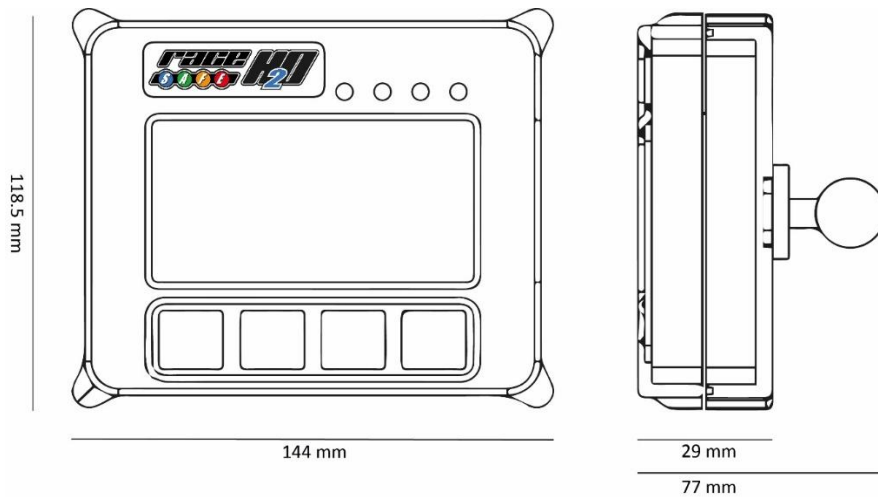


*The RallySafe unit then mounts to the 25mm rubber ball mount (connected through the RallySafe connector).*

Base Dimensions:



## Unit Dimensions



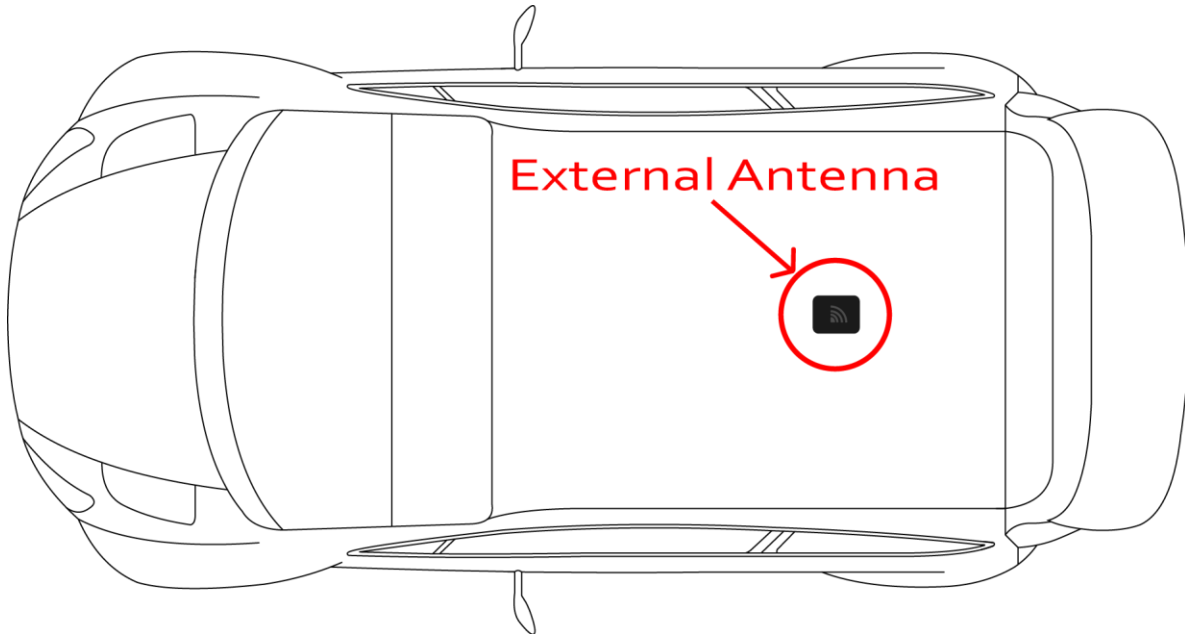
## Antenna Installation

All leads on both external and internal antennas **must** run on the inside of all roll cage bars. This is to stop cable crushing on impact. The preferred route is to go down from the antenna, underneath the closest part of the roll cage (roof cross or main hoop), follow that along to the roof hoop, then go down the inside A pillar to the unit. Any excess cable must be run so that the cable is not bent any tighter than a 100mm radius. We recommend running it across the underside of the dash and back (do not coil in tight loops). Cables must be tied neatly along the whole installation all the way to the unit so they can't be accidentally caught or dislodged. All this will be checked at scrutineering and you may be required to fix it before your car can pass.

### External Antenna:

The antenna is mounted through a 12mm hole in a central location on the ROOF of the vehicle, rear of the main roll bar hoop, allowing the cabling to pass through the roof and follow the cage bars back to the RallySafe unit location. The antenna is a fully watertight unit which seals against the roof surface.





**Antenna leads are connected as follows (There may be variations with the type and number of leads).**

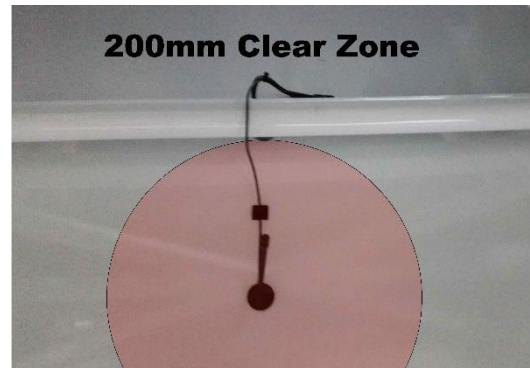
1. The 2 UHF leads, colour-coded **Blue**, is connected to the terminal labelled "UHF" on the RallySafe unit (Right Hand Thread). Terminals are located of the rear of the unit and/or colour-coded Blue.
2. The Satellite Communication antenna lead is connected to the centre or rear terminal labelled "IRI" (Left Hand Thread). It may also be colour-coded **Yellow** (this may be not marked on the 2-in-1 antenna).
3. The GPS antenna lead labelled "GPS", is connected to the terminal labelled "GPS" on the RallySafe unit (Right Hand Thread). Terminals may be on the side or rear of the unit and/or colour-coded **Green**.
4. GSM, has a small stick antenna supplied with the RallySafe unit, and is connected to corresponding terminal labelled "GSM" on the RallySafe unit (Left Hand Thread). The terminal is located on the rear of the unit and/or colour-coded **Red**.

## Internal Antenna:

The Internal Antenna should be placed on the inside of the **ROOF** in a clear uncluttered area, with a 200mm radius clear of any bar work or solid metal object. The internal antenna has a magnetic base with double-sided tape for adhesion. The cable is then run to the RallySafe unit. **Please keep cable on the inner side of the roll cage pipework so as not to be crushed in the event of an accident.**



*Here the antenna is stuck to the inside centre of the roof (Preferred)*



*Please note the internal antenna must be 200mm AWAY from any roll cage components*

## Contact Us

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### STATUS AWARENESS SYSTEMS

14 Short St, Ulverstone

Tasmania, 7315

AUSTRALIA

Phone: +61 3 6425 7003

Email: [contact@rallysafe.com.au](mailto:contact@rallysafe.com.au)

# **SAS Tracker Competitor User Manual**

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## Welcome

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For your and other competitor's safety it is important that you are familiar with the use of the WRC tracking unit, herein referred to as "the unit" or "the WRC Tracking Device".

The SAS System is designed to increase competition safety by providing safety notifications to inform event management, improve response times and provide accurate and reliable event times.

The following document outlines the basic features and functions of the WRC Tracking unit.

If you have any questions, please don't hesitate to contact the team at SAS or alternatively ask your fellow competitors.

## Powering The Unit On

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The unit is pre-loaded with all of the stage coordinates and is activated when powered on. Please power the unit on early before the event to give it time to run checks.

When powered on the unit will display the transport screen ([SCREEN 1](#)) which displays the car number (top corner), transit time, distance and speed.

The unit does not need to be powered off at any stage during the event as it will go to sleep within a few minutes of inactivity but can be re-woken by either moving the vehicle or pressing any of the four buttons.

It is recommended that the unit is not powered off during the event, to ensure the internal battery stays fully charged for emergencies.

## Stage Modes

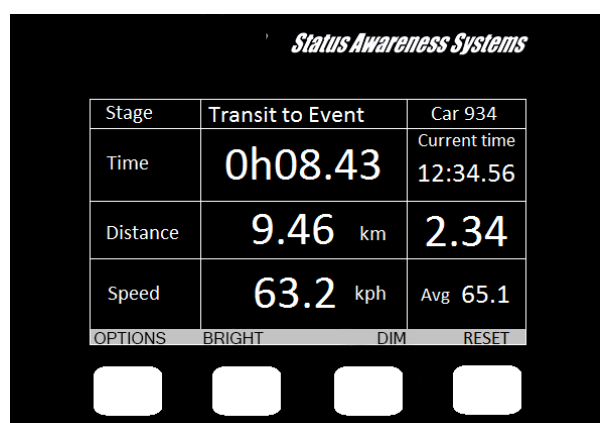
The unit has two modes. When in a competitive stage the unit will go into stage mode, and all other times it will be in transport mode.

### Transport Mode-

Transport mode (**SCREEN 1**) displays the name of the next point you are travelling to, whether it is a service or a competitive stage. While on a transport stage the unit will display your time in transit, current time, speed, average speed and accumulative and intermediate distances.

The unit has four white buttons, in different modes those buttons can do different things, so their functions are listed on the screen above the button's location.

In the transport screen you have the option to reset the intermediate trip meter and dim or brighten the screen. Note that the screen must always be clearly readable so full brightness is recommended for daytime.



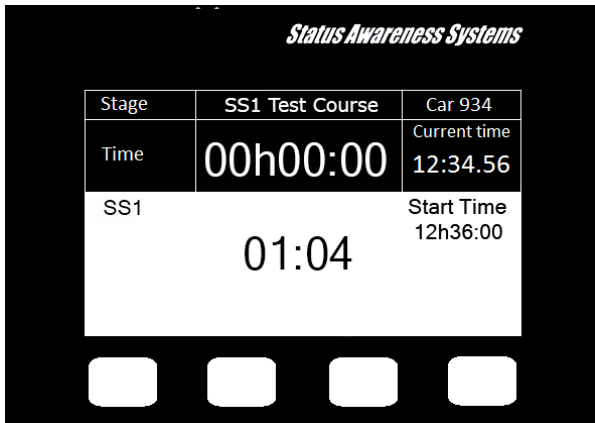
(SCREEN 1)



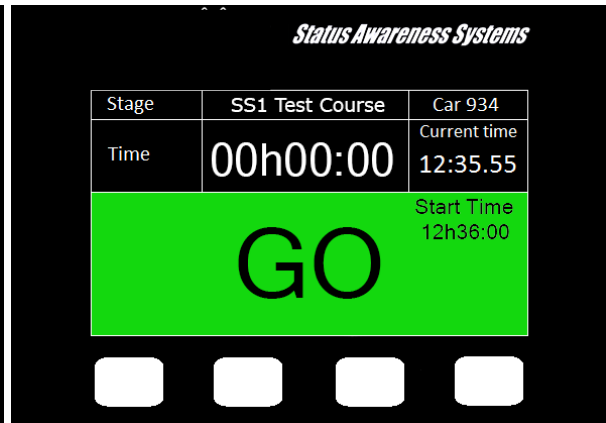
### Stage Mode-

**SCREEN 2** – When the start official assigns you your start time, a countdown will display on the unit as shown below. Also shown is the stage number and your start time in the white field in the bottom half of the screen.

**SCREEN 3** – Once your start time is reached the screen will go green and you are to proceed into stage.



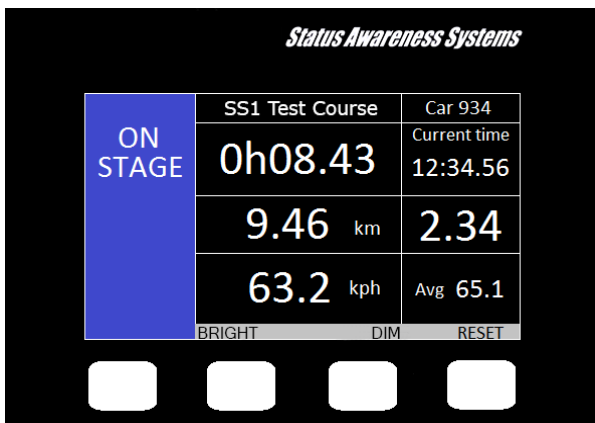
(SCREEN 2)



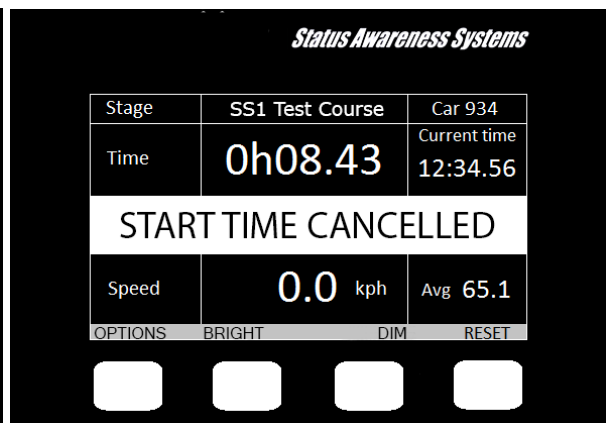
(SCREEN 3)

**SCREEN 4** - Once you have started the stage the unit will then switch to on stage mode. The unit will start timing and the push to pass option will appear (If applicable for the event).

**SCREEN 5**—If the start is held and your start time is cancelled this will be shown on your unit. Once it is clear to send cars again the official will re-issue a new start time.



(SCREEN 4)



(SCREEN 5)

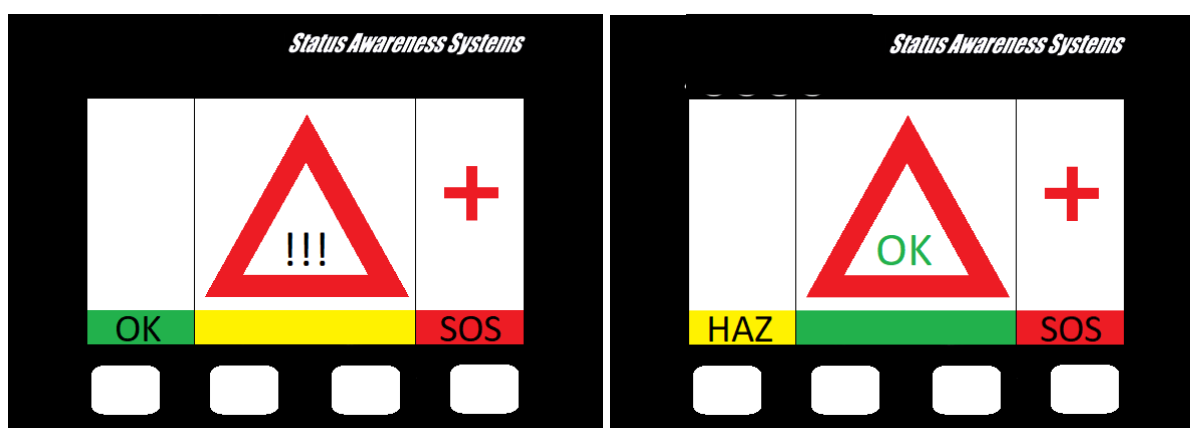
## Hazard Alerts

The unit's primary function is to help alert race control of incidents on the course.

The incident is conveyed to race control with different levels of hazard depending on the severity, similar to flags in circuit racing.

**SCREEN 6-** If a car stops during a stage the unit will automatically transmit a HAZARD notification. You must either upgrade or downgrade to OK or SOS by pressing the corresponding buttons below the text.

**SCREEN 7-** If you select OK after the HAZARD alert, then the following screen will appear, showing that you and the car are OK and out of the way of oncoming vehicles.

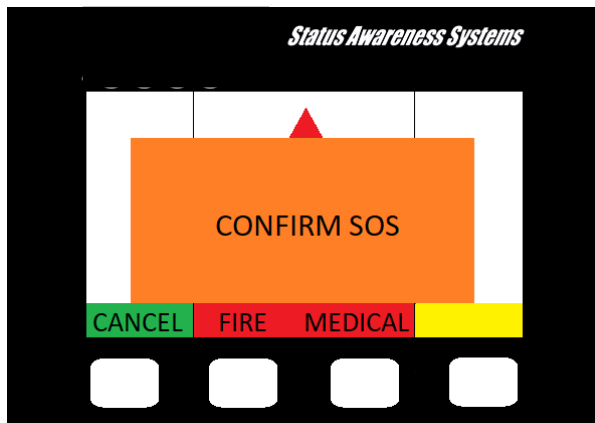


(SCREEN 6)

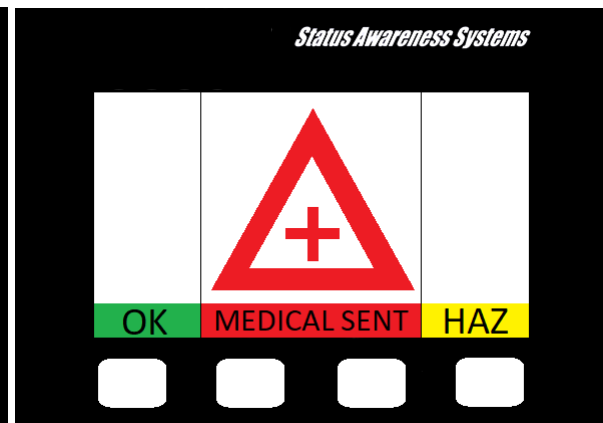
(SCREEN 7)

**SCREEN 8-** If the manual SOS button is pressed, it must be confirmed as either a fire or medical SOS by pressing one of the two middle buttons. It can also be cancelled if pressed by mistake. If a car is involved in a High G impact an automatic SOS message will display. If no urgent assistance is required, you can downgrade to OK by selecting the corresponding button.

**SCREEN 9-** Once confirmed screen 9 will display. Even once confirmed the hazard can be downgraded to an OK.



(SCREEN 8)

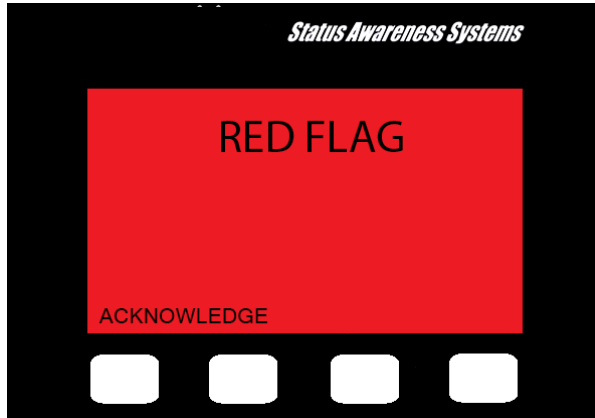


(SCREEN 9)

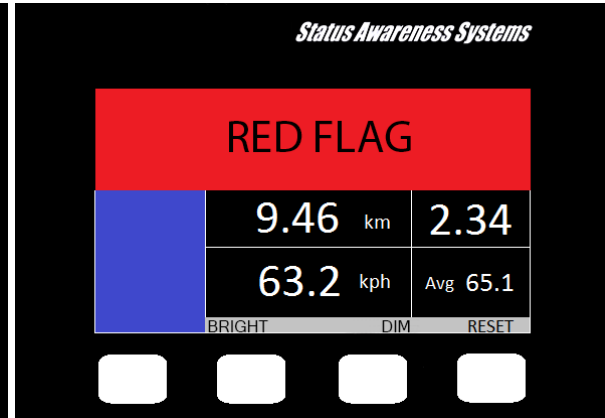
## Red Flag

In the case of a serious incident, a stage may be red flagged. The red flag will display a full screen warning (SCREEN 10) until acknowledged. You must acknowledge the flag by pressing the far left button, which will then show the normal stage functions with a warning still at the top of the screen (SCREEN 11).

The red flag will be shown to all vehicles before the incident on the stage affected.



(SCREEN 10)



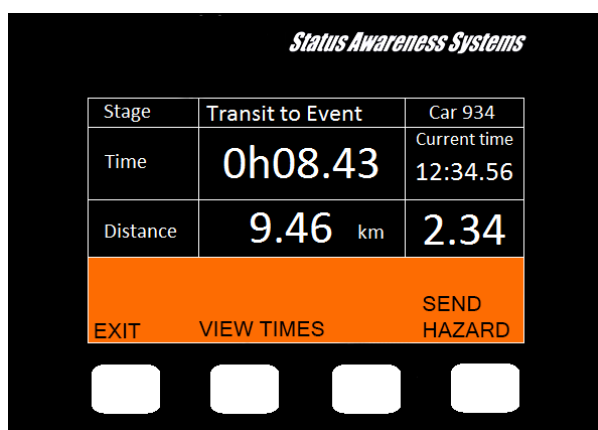
(SCREEN 11)

## Transport Menu

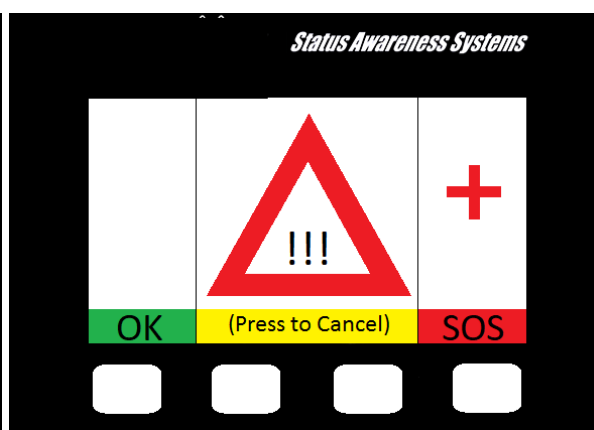
In transport mode the unit has a menu that can be accessed by pressing the options button (button 1 in transport mode). This allows you to view your stage times or send a manual hazard/SOS.

### Manual Hazard-

WRC tracker also provides an option to signal a hazard manually while in transport mode. This is done through the options menu and can then be upgraded or downgraded to the relevant level the same way as a stage hazard. Once the hazard is no longer required, it can be cancelled by pressing either of the two middle buttons.



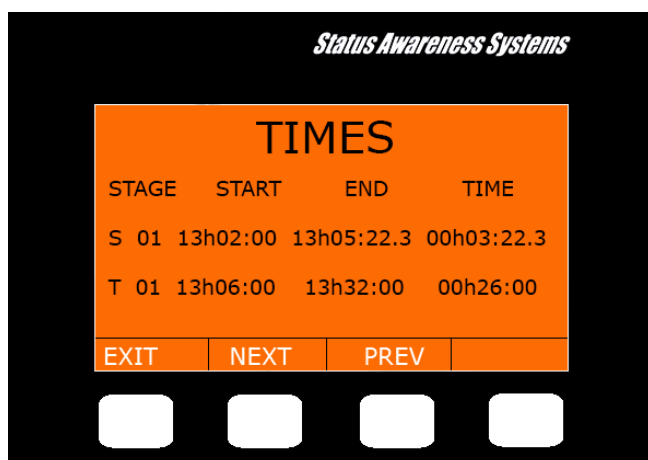
(SCREEN 12)



(SCREEN 13)

### Stage Times-

From the options screen, you can press the stage times button. This gives you access to provisional transit and competitive stage times. You can select times for any completed stage with the next and previous buttons.



(SCREEN 14)

**Priority 1 and 2 Drivers**

Version 2.2

2018-01-31

<b>Tuesday 13 February Stage</b>	<b>Allowed Time</b>	<b>SS km</b>	<b>Tot SS km x 2</b>	<b>Finish to Start</b>	<b>To Next Stage</b>	<b>Totals</b>
SS 17/18 Likenäs	08:00-10:00	21,19	42,38	17,95	77,87	138,20
SS 2/5 Hof-Finnskog	09:45-12:30	21,26	42,52	31,15	44,69	118,36
SS 3/6 Svullrya	11:30-15:00	24,88	49,76	7,37	16,44	73,57
SS 4/7 Rjorden	12:30-16:00	19,13	38,26	16,79	48,12	103,17
Shakedown Skalla	14:00-17:30	6,86	13,72	5,96	2,80	22,48
SS 8/19 Torsby	14:15-18:00	9,56	19,12	10,67		29,79
<b>Totals</b>		<b>102,88</b>				<b>485,57</b>

<b>Wednesday 14 February Stage</b>	<b>Allowed Time</b>	<b>SS km</b>	<b>Tot SS km x 2</b>	<b>Finish to Start</b>	<b>To Next Stage</b>	<b>Totals</b>
SS 9/12 Torntorp	08:00-10:00	19,88	39,76	28,55	49,39	117,70
SS 10/13 Hagfors	09:30-12:30	23,40	46,80	24,71	26,43	97,94
SS 11/14 Vargåsen	11:00-14:00	14,21	28,42	28,26	35,02	91,70
SS 16 Torsby Sprint	12:15-15:00	3,43	6,86	3,67		10,53
<b>Totals</b>		<b>60,92</b>				<b>317,87</b>

<b>Thursday 15 February Stage</b>	<b>Allowed Time</b>	<b>SS km</b>	<b>Tot SS km x 2</b>	<b>Finish to Start</b>	<b>To Next Stage</b>	<b>Totals</b>
SS 1/15 SSS Karlstad	17:00-18:00	1,90	3,80	0,00		3,80

**Priority 3 and Non Priority Drivers**

<b>Tuesday 13 February Stage</b>	<b>Allowed Time</b>	<b>SS km</b>	<b>Tot SS km x 2</b>	<b>Finish to Start</b>	<b>To Next Stage</b>	<b>Totals</b>
SS 2/5 Hof-Finnskog	08:00-10:00	21,26	42,52	31,15	44,69	118,36
SS 3/6 Svullrya	09:45-12:00	24,88	49,76	7,37	16,44	73,57
SS 4/7 Rjorden	11:00-13:30	19,13	38,26	16,79	47,99	103,04
SS 17/18 Likenäs	12:30-16:00	21,19	42,38	17,95	70,60	130,93
Shakedown Skalla	14:30-17:30	6,86	13,72	5,96	2,80	22,48
SS 8/19 Torsby	14:45-18:00	9,56	19,12	10,67		29,79
<b>Totals</b>		<b>102,88</b>				<b>478,17</b>

<b>Wednesday 14 February Stage</b>	<b>Allowed Time</b>	<b>SS km</b>	<b>Tot SS km x 2</b>	<b>Finish to Start</b>	<b>To Next Stage</b>	<b>Totals</b>
SS 11/14 Vargåsen	08:00-10:00	14,21	28,42	28,26	39,49	96,17
SS 9/12 Torntorp	09:15-12:00	19,88	39,76	28,55	49,39	117,70
SS 10/13 Hagfors	11:15-14:30	23,40	46,80	24,71	65,42	136,93
SS 16 Torsby Sprint	13:15-16:00	3,43	6,86	3,67		10,53
<b>Totals</b>		<b>60,92</b>				<b>361,33</b>

<b>Thursday 15 February Stage</b>	<b>Allowed Time</b>	<b>SS km</b>	<b>Tot SS km x 2</b>	<b>Finish to Start</b>	<b>To Next Stage</b>	<b>Totals</b>
SS 1/15 SSS Karlstad	16:00-17:00	1,90	3,80	0,00		3,80