



# RALLY SAFETY SYSTEM

# SELF - INSTALLATION MANUAL

**FOLLOW THE INFORMATION BELOW**

**TO INSTAL THE SYSTEM BEFORE GOING TO SCRUTINEERING**

Version released on 22.06.2021

## STEP 1 – GET FAMILIAR WITH THE SYSTEM COMPONENTS

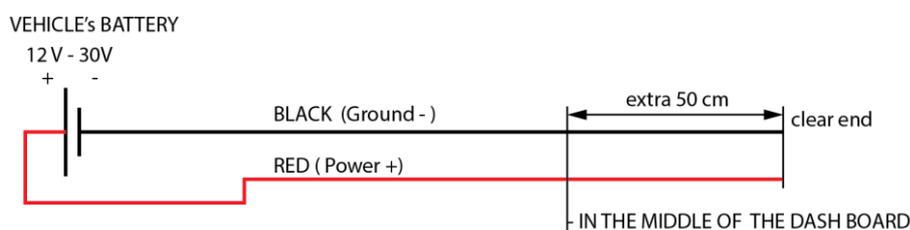


*NOTE: on CARS and TRUCKS, the organization will provide additional extension cable to place the radio antenna on a better position.*

- **IMPORTANT! NO CUTTING OF CABLES, MODIFICATION OF CONNECTORS OR OTHER INTERFERENCE IN THE SYSTEM COMPONENTS IS ALLOWED! ANY DAMAGE TO THE EQUIPMENT MUST BE PAID ACCORDING TO THE SUPPLIER'S PART LIST**

## STEP 2 – PREPARE POSITIVE AND NEGATIVE CABLE FROM THE BATTERY TO THE DASH BOARD (SSV, CARS, and TRUCKS) OR THE HANDLE BAR (ENDURO/ATV) AND INSTALL INSULATED TERMINAL CONNECTORS (SUPPLIED BY THE ORGANIZATION)

- **IMPORTANT! THE BATTERY MASTER CUT-OFF (KILL) SWITCH MUST NOT DISCONNECT THE POWER SUPPLY FOR THE RALLY SAFETY SYSTEM.**
- It is the responsibility of the competitors alone to provide, DIRECT POWER SUPPLY from the vehicle's battery according to the drawings provided.
- The power cables must be "flexible" (multi wire), insulated cables – 2 x min 0.5 to 1.25 mm<sup>2</sup> (preferably with RED and BLACK insulation color).
- **RECOMMENDATION:** The connection may have an IN-LINE FUSE - "BLADE TYPE" of 5A.



FEMALE INSULATED  
TERMINAL CONNECTORS

## STEP 3 – MOUNT THE GPS TRACKER ON THE PROPER POSITION

- For ENDURO the best position is at the navigation tower or the top end of the suspension forks.
- For ATV the best position is at the navigation tower or the area around the head light
- For SSV, CARS, TRUCKS, the best position is the “A-pillar” of the roll cage, or the horizontal member of the roll cage, with the tracker facing upwards.

- **IMPORTANT! THE GPS TRACKER MUST HAVE VISIBILITY TO THE SKY (NO METAL ON TOP OF THE DEVICE)**
- **IMPORTANT! INSTALLATION IS DONE WITH CABLE TIES THROUGH THE HOLES OF THE BASE OF THE DEVICE**
- **IMPORTANT! POSITION THE DEVICE IN SUCH A WAY THAT NO DIRECT DAMAGE CAN BE DONE!**



*Installation of the GPS TRACKER on the suspension fork using cable ties.*



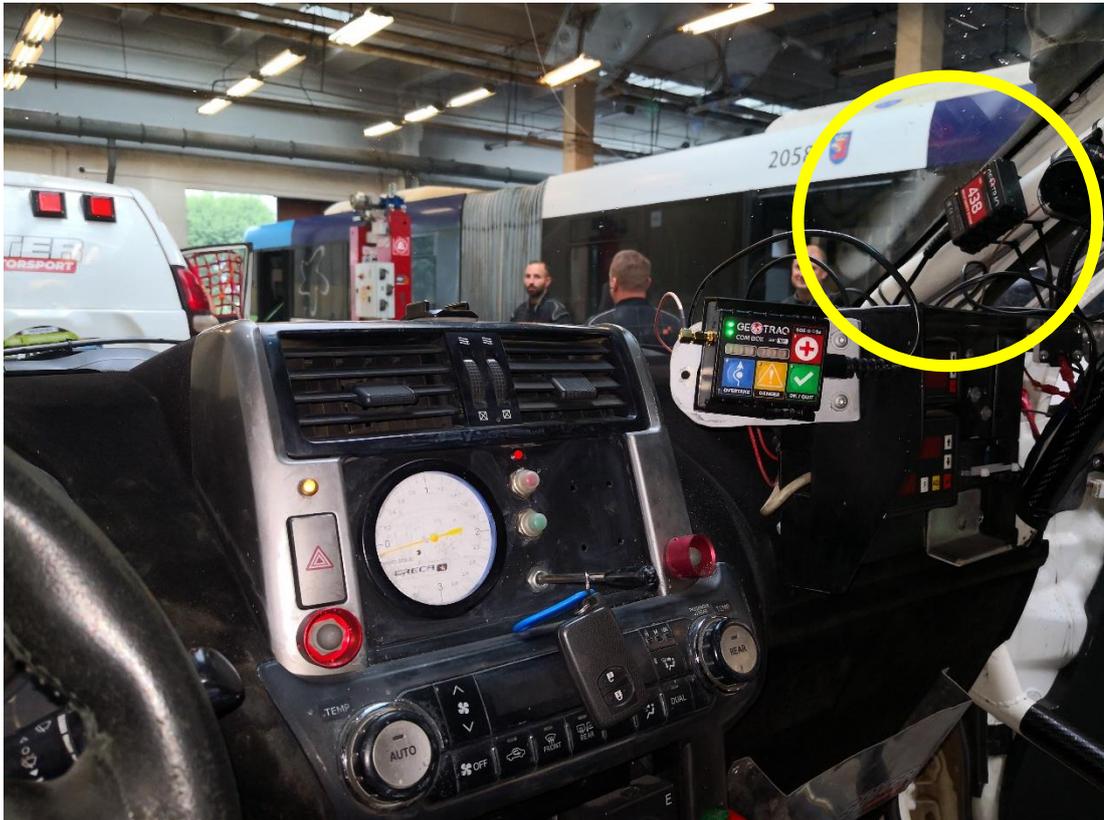
*Installation of the GPS TRACKER on the navigation tower using cable ties.*



*Installation of the GPS TRACKER on the railing of ATV using cable ties.*



*Installation of the GPS TRACKER on the roll cage "A-pillar" of a SSV using cable ties.*

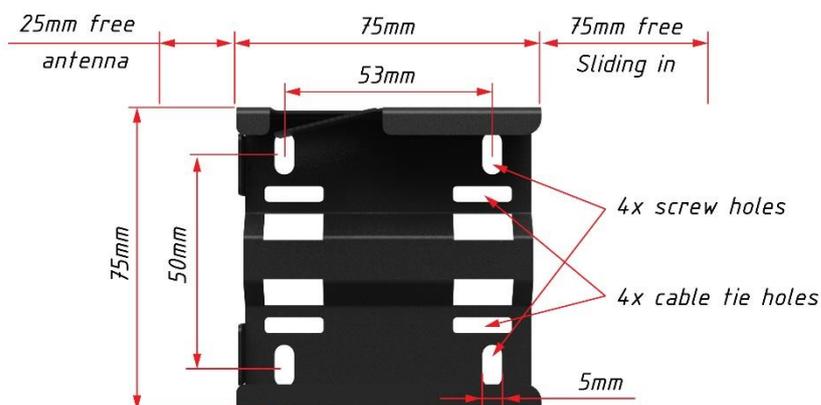


Installation of the GPS TRACKER on the roll cage "A-pillar" of a Car using cable ties.

## STEP 4 – MOUNT THE COM BOX MOUNTING BRACKET AND INSERT THE COM-BOX UNIT ON THE PROPER POSITION

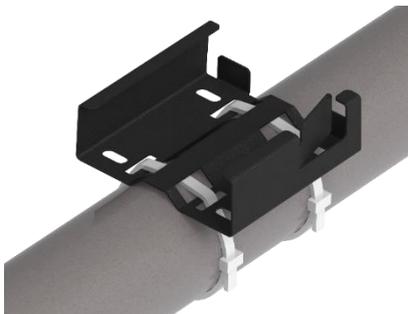
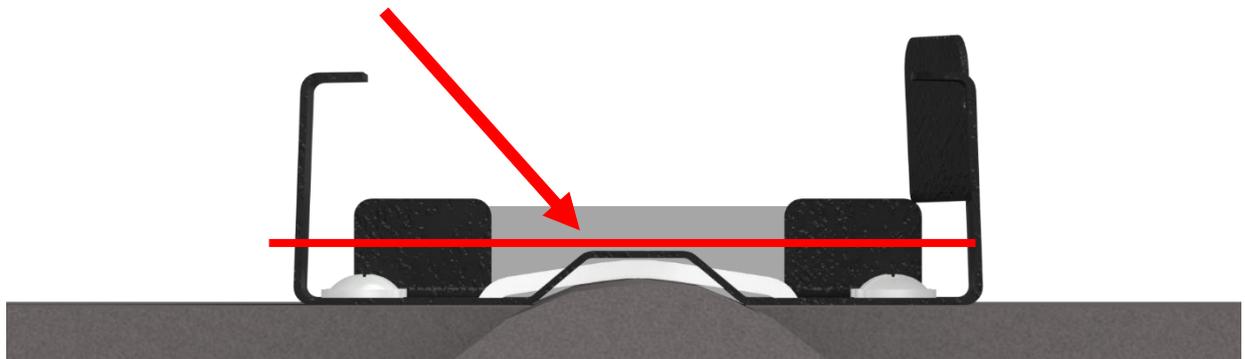
- You can bolt the mounting bracket as shown in the graphics bellow, or you can use double-sided tape to stick it to a good surface or use cable ties to fix it to a tube of the roll cage.
- If needed, additional opening can be drilled to fix it on the required position.

- **IMPORTANT! THE COM-BOX MUST BE IN REACH OF THE DRIVER / CO-DRIVER TO OPERATE THE BUTTONS!**
- **IMPORTANT! LEAVE ADDITIONAL SPACE ON THE SIDE OF THE UNIT FOR THE ANTENNA / EXTENSION AND SLIDE THE UNIT IN TO THE BRACKET!**





**IMPORTANT: No bolt/screw heads or cable/zip ties can protrude over the red line as marked below.**



Cable / zip tie fixture



Screw / bolt fixture



Com-Box unit installed in bracket

- When the mounting bracket is securely installed, you can slide-in the Com-Box unit in.

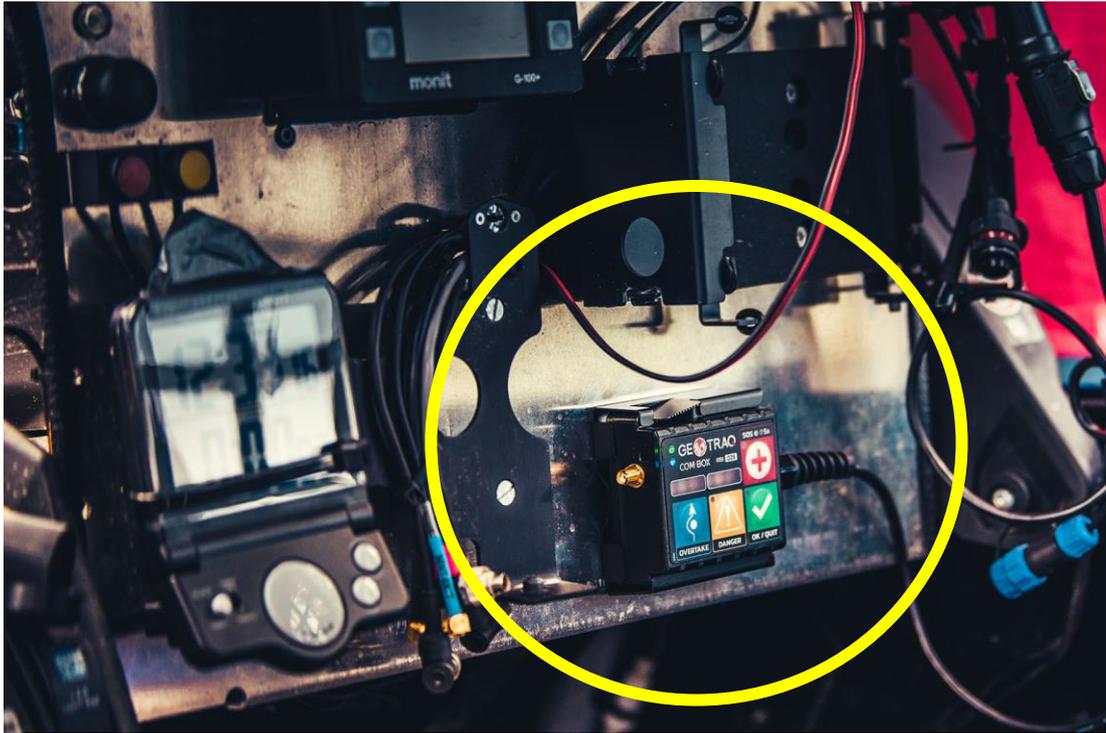




*Installation of the Com-Box unit with bracket on the handle bar using cable ties.*



*Installation of the Com-Box unit with bracket on the handle bar using cable ties.*



*Installation of the Com-Box unit with bracket on the dashboard using bolts.*



*Installation of the Com-Box unit with bracket on the roll cage using cable ties.*



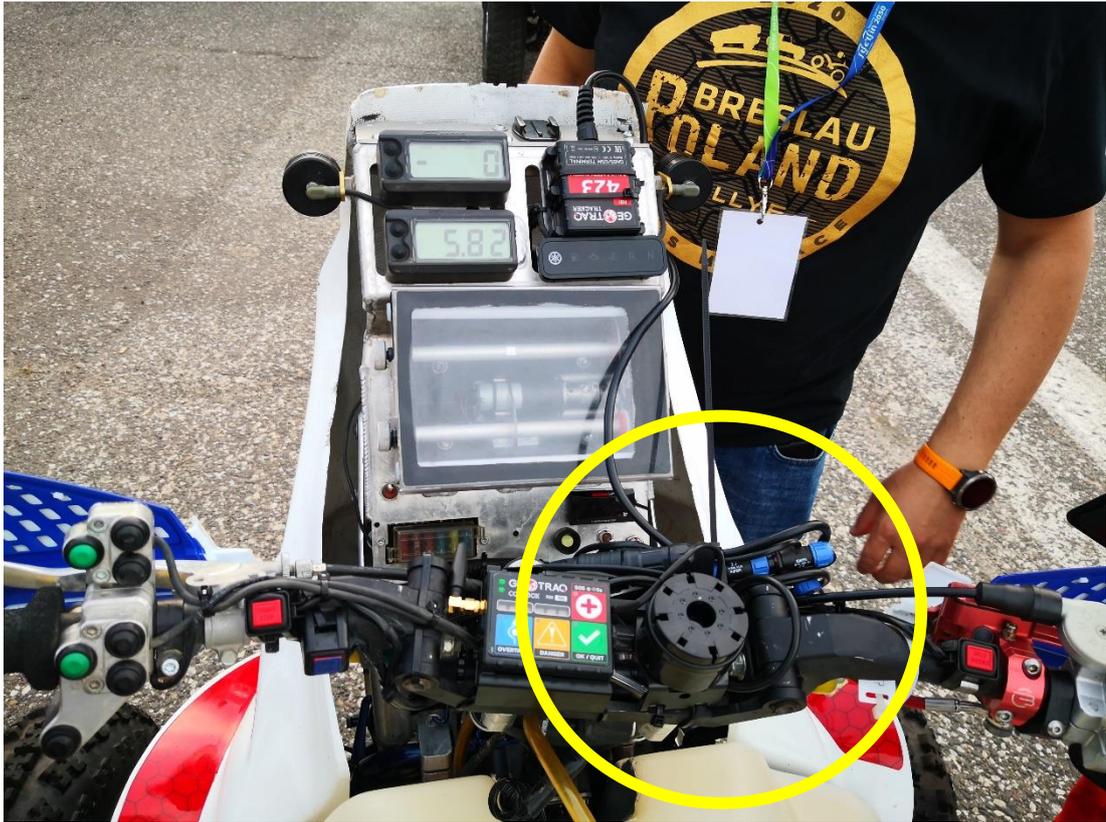
Installation of the Com-Box unit with bracket on the dashboard using bolts.

## STEP 5 – MOUNT THE BUZZER ON SUITABLE POSITION

- You can use cable ties to fix it to a tube of the roll cage or similar base.
- **IMPORTANT! FOR CARS AND TRUCKS, THE BUZZER WILL BE SUPPLIED WITH ADDITIONAL RADIO EXTENSION CABLE THAT GOES FROM THE COM-BOX UNIT TO THE BASE OF THE BUZZER MOUNT AND THE ANTENNA WILL BE ATTACHED ON THE BUZZER MOUNT.**



Installation of the Buzzer with bracket on the handle bar using cable ties.



*Installation of the Buzzer with bracket on the handle bar using cable ties.*



*Installation of the Buzzer with bracket on the Roll cage using cable ties.*



*Installation of the Buzzer with bracket on the Roll cage using cable ties.*

**STEP 6 – INSTALL THE ANTENNA AS SUPPLIED DIRECTLY ON THE COM-BOX UNIT OR ON TO THE BUZZER MOUNT (CARS, TRUCKS).**

- IMPORTANT! DO NOT USE FORCE WHEN TIGHTENING THE CONNECTOR. TIGHT WITH FINGERS ONLY!**



*Installed antenna on the Com-Box unit.*



Installed antenna on the Buzzer unit (optional only when using extension cable).

## STEP 7 – CONNECT ALL THE CABLES TO POWER UP THE RALLY SAFETY SYSTEM.

- First, make sure you have connected the antenna (optional extension cable and antenna)
- Second, connect the blue connectors (buzzer)
- Third, connect the black connectors between the GPS Tracker and the Com-Box unit
- Finally connect the 2 power terminals (positive and negative)

- **IMPORTANT! WHEN CONNECTING THE POWER TERMINAL MAKE SURE YOU HAVE THE PROPER POLARITY – RED is POSITIVE, BLACK is NEGATIVE!**
- **IMPORTANT! IF ALL THE COMPONENTS ARE CONNECTED PROPERLY, THE COM-BOX UNIT WILL DISPLAY A “GREEN STATUS” ON THE BATTERY ICON AND “BLUE/GREEN STATUS” on the RADIO ICON**

### BATTERY STATUS

- - EXTERNAL POWER
- - NO EXTERNAL POWER
- - (BLINKING) INT. BATTERY EMPTY

### RADIO STATUS

- - RADIO OK
- - SLEEP MODE, NO RADIO

### OVERTAKE FUNCTION

### DANGER BEACON



### EMERGENCY SOS BEACON

- PRESS AND HOLD UNTIL ACTIVATED

### CONFIRM / QUIT BUTTON

## STEP 8 – FINAL INSPECTION AT SCRUTINEERING

- Leave the cables in such a way that they can be checked at scrutineering.
- Only after you receive START PERMISSION, you can make the cables as best you want on the vehicle using cable ties.
- Do not use insulating or any other tape to group the cables.

- **IMPORTANT! DO NOT PUT THE CABLES OF THE SYSTEM IN HIDDEN PLACES (INSIDE THE DASHBOARD OR HARD TO REACH LOCATIONS). THE MARSHALS WILL CHECK ALL THE SYSTEM AND COMPONENTS FOR PROPER INSTALLATION AND OPERATION AT THE SCRUTINEERING AND IF NEEDED THEY WILL REMAKE THE WIRING.**

## STEP 9 – WATCH THE VIDEO OF HOW TO USE THE SYSTEMS

- On the following link, you can learn how to operate with the Com-Box:  
<https://www.youtube.com/watch?v=6hSXuu6DcyE>

