



# Tracking Solution User Guide

Team Mechanics

**Assembly Instructions**

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## The Be Traced kit

The Be Traced System Mounting Kit includes:

- 3-in-1 antenna, with roof mounting;
- Power cable with external interfaces;
- Ball attachment and articulated arm.



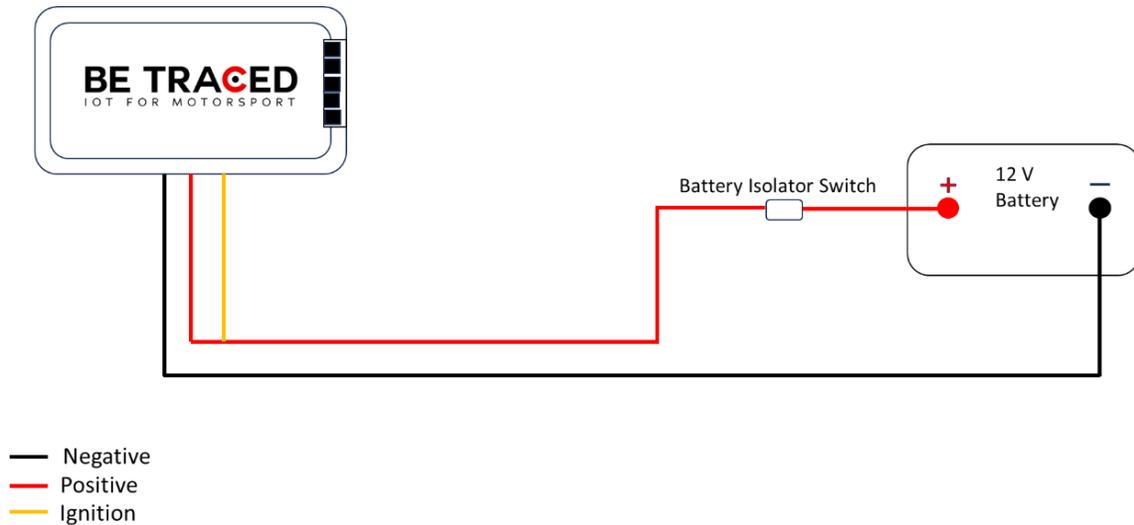
**Fig. 1**

**ATTENTION:** the kit does not include the device, which will be provided only at the end of the pre-race sporting and technical checks.

## Power Supply

The Be Traced device requires external power supplied by the vehicle's battery, it allows 11 to 35 volts DC. It is mandatory to connect the power cable provided in the kit behind the battery cut-off, in order to be able to adequately supply power to the device.

Follow the diagram below (**Fig. 2**) to connect the device to the battery:



**Fig. 2**

The device is equipped with an internal battery that provides power in emergency situations where the vehicle's battery cannot be used.

When the device detects that it is stationary in "Transfer" mode and the stop is prolonged for more than 5 minutes, the device goes to sleep. Just click any button to turn on the device's screen again.

After a 15-minute "Transfer" stop without power, the device automatically shuts down. The device will turn on again as soon as power is supplied again.

## Mounting of the Roof Antenna

The outdoor antenna must be properly installed on the roof of the vehicle to ensure proper data transmission.

The antenna is equipped with three different cables:

- Blue cable: dedicated to the GPS signal;
- Red cable: dedicated to the GSM network signal;
- Grey cable: dedicated to satellite communication.



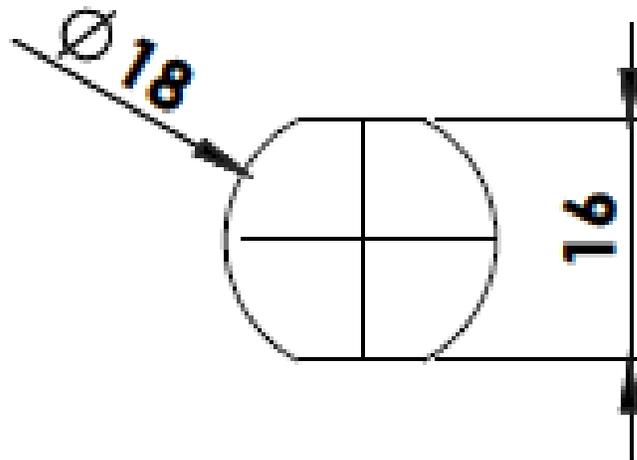
**Fig. 3: Roof antenna**

The cables must be connected to the back of the device, respecting the writings above the connectors and the colors blue, red and gray, identifiable by a colored dot located on the device:



**CAUTION:** Make sure you have screwed the connectors to the device correctly.

To install the antenna, it is necessary to drill into the roof of the car to insert the cables and the underside of the antenna. The hole must have a diameter of 18 millimeters (**Fig. 4**). Once the roof of the vehicle has been drilled, unscrew the bolt and washer on the underside of the antenna, remove the protective film underneath and insert the antenna into the hole created. Once the antenna is inserted, reassemble the washer and bolt (washer first then bolt) and tighten the two items securely. Manage the cables to get them to the device, strictly avoiding passing them between the roll bar and the body, to avoid malfunctions in the event of an accident.



**Fig. 4: Antenna hole measurement**

**Attention:** ONLY for cars with a high historical value it is possible to apply the antenna on the rear window in plexiglass or in another position outside the vehicle, provided that the same has maximum visibility of the sky.

If the rear window is not oriented towards the sky it is necessary to use an L-shaped bracket or other types of bracket to be able to orient it horizontally.

In case the antenna through screw remains outside the vehicle, it is essential to isolate the hole in order to avoid the ingress of water inside the antenna with heat shrink sheath or with other adhesive tapes.



**Fig. 5: Roof antenna installed on the vehicle**

The recommended cable management is shown in the following images (**Fig.6, Fig.7, Fig.8, Fig.9**):



**Fig. 6**



Fig. 7

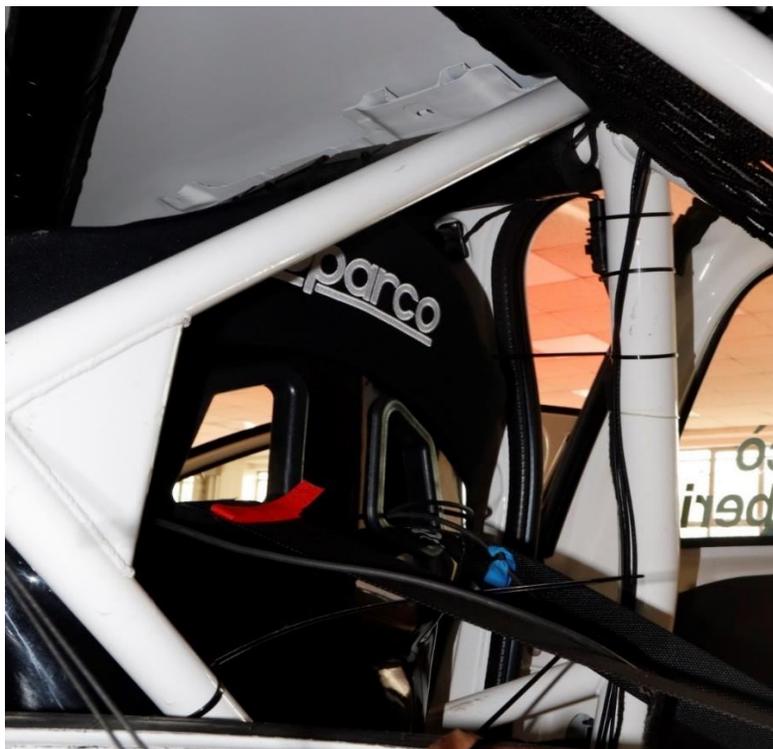
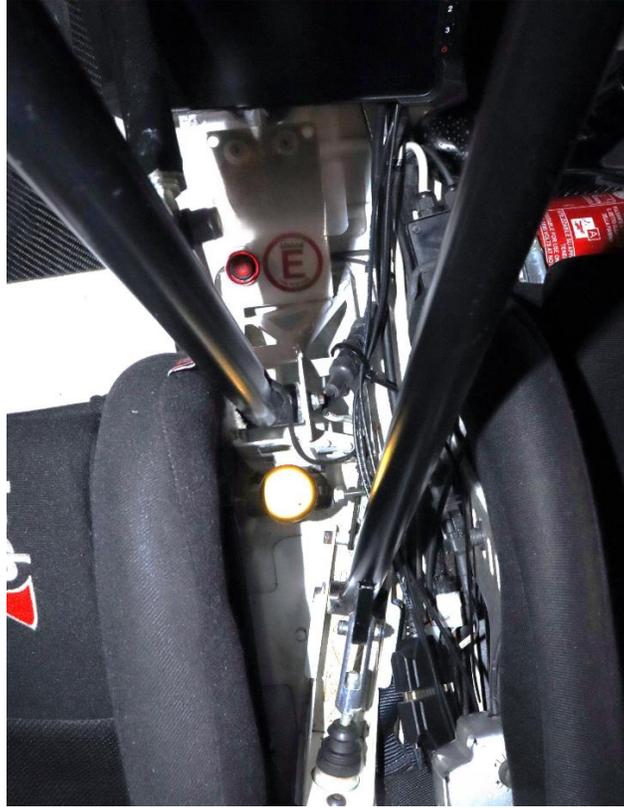


Fig. 8



**Fig. 9**

## Mounting the unit and its dimensions

Proper mounting of the unit must be done using the RAM mount included in the mounting kit. The stand is integrated with a ball that attaches to a small, fully adjustable arm. To adjust the arm and device, unscrew the nut on the arm.



**Fig. 10**



**Fig. 11**

The device has a length of 14 cm, width of 22 cm, thickness of 2 cm (**Fig.10**). It must be mounted in a central location and must be reachable by BOTH occupants of the vehicle. It is possible to orient the unit according to the crew's preference thanks to the RAM MOUNT arm which is fully adjustable.



**Fig. 12**



Fig. 13

## Check for proper installation

To verify the correct installation of the device, once power is supplied, check the status of the device via the following icons:

1. External power supply, if the device is properly powered icon 1 will be displayed (**Fig.14**).
2. GPS signal, if the antenna is correctly connected, icon 2 is displayed (**Fig.14**).
3. Connecting to the Be Traced server, if the antenna is correctly connected and the device is correctly transmitting to the Be Traced server, icon 3 is shown in **Fig.14** (**Warning:** when the device is turned on, it takes a few moments to start transmitting correctly).

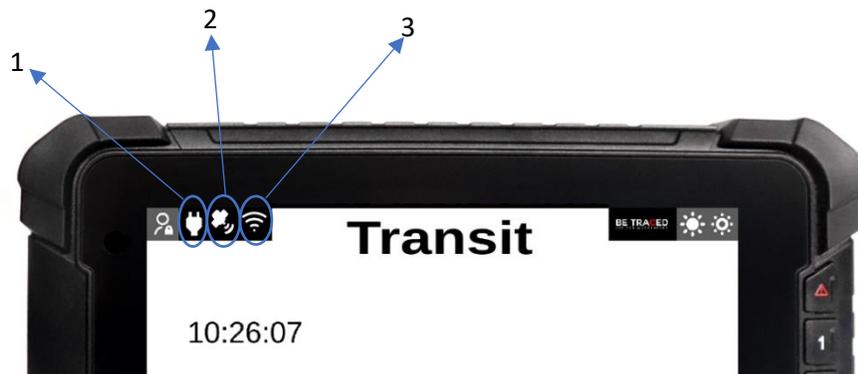


Fig. 14

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## Contacts

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