



Installation and Connection of Galileosky Tracking Device

User Manual

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Necessary Tools, Devices, Materials

To connect Galileosky tracking devices (hereinafter – tracking device, GPS tracker) you should have:

1. Electrical tools.
2. Multimeter.
3. Set of connecting wires with fuses.

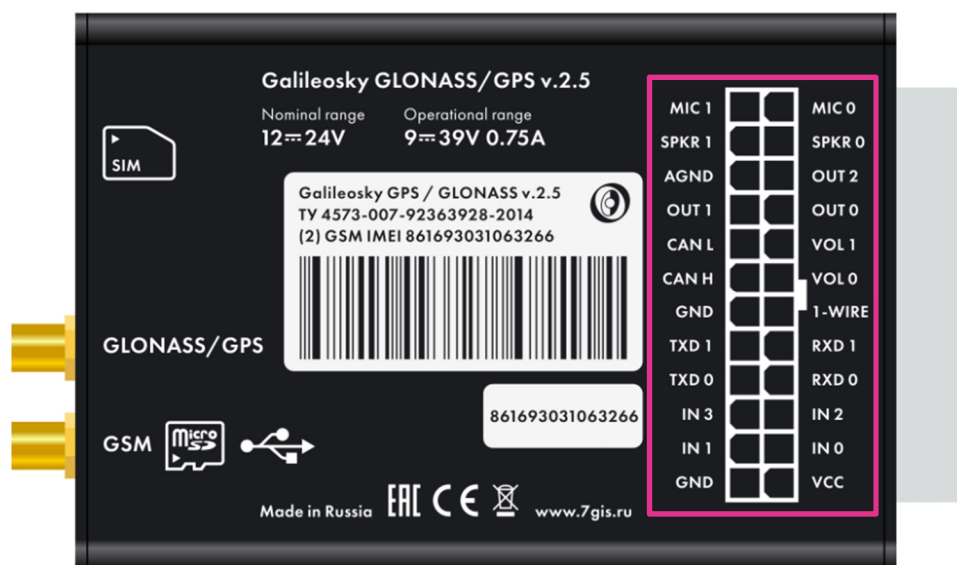
Setting of Galileosky Device to Switch-on

Preparation of the connector a tracking device

Together with a device, you get a counterpart of socket and several crimped conductors.

On the back of the body, there is a schematic representation of the contacts to be connected and location of main service openings (Picture 1).

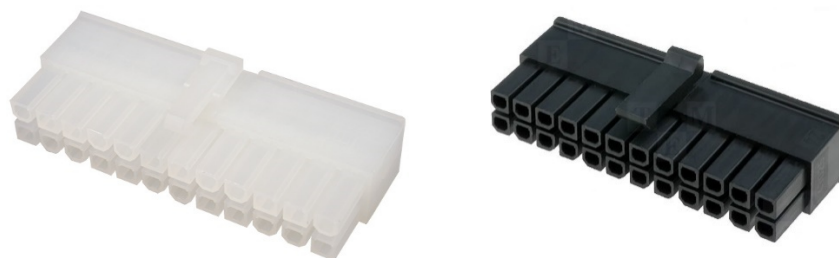
ATTENTION! The symbol of tracking device board key is sometimes perceived as a connection strap between RS232 and RS485 contacts. Be careful, there should not be any connection strap!



Pic. 1
Scheme of contacts location

The order of tracking device board assembling is as follows:

1. Rotate the tracking device board in such a way that the key has been at the top of the socket and the places of conductors connection have been directed towards the user (Picture 2);



Pic. 2
Terminal boards

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2. turn the contacts the locking mechanisms up and along the sides and insert them into the socket until clicking position (Picture 3).



Pic. 3

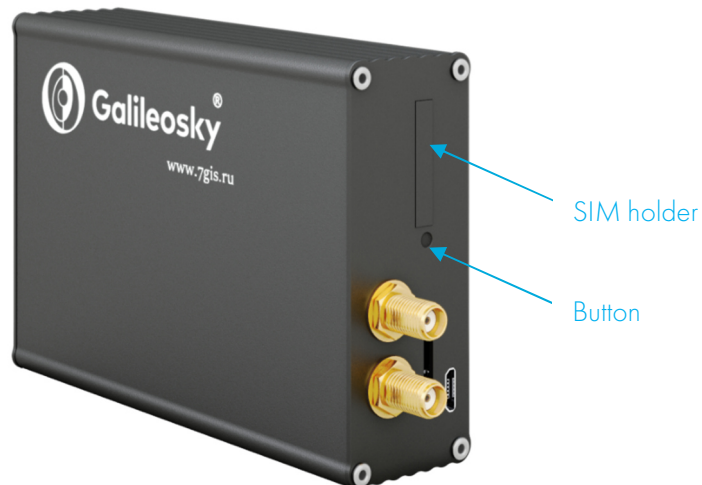
Crimped terminal
conductor

ATTENTION! When you install the conductors observe the polarity – the red wire is used as a positive conductor and the black wire is used as a negative one.

SIM-cards inserting

The order of SIM-cards inserting is the following:

- press the SIM holder button with something sharp (clip, toothpick) and eject the SIM-holder (Picture 4);

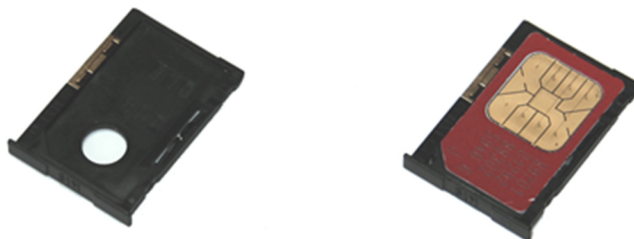


Pic. 4

Ejecting of SIM-holder

- insert the SIM-card into the holder contacts up (Picture 5);

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Pic. 5

Inserting the SIM-cards

- insert the SIM-holder with the card into the tracking device carefully without applying excessive force until locking focusing on the key drawn on the tracking device body (Pic. 6).

ATTENTION! Use SIM-cards with activated GPRS and SMS services.



Pic. 6

SIM-card inserting scheme

Preparation of antennas

Together with the Tracking device, you get a GSM-antenna and a GLONASS/GPS-antenna. The antennas differ in appearance and functionality.

There are 2 types of antennas connectors in Galileosky tracking devices:

1. F-type connector
2. Fakra connector

1. The GSM-antenna (Picture 7) is a passive one and is connected to the GSM-antenna plug.



Pic. 7

GSM-antennas with F type connector

The GLONASS/GPS-antenna (Picture 8) is an active one. It means that it needs a power connection for normal operation. The antenna is connected strictly to the GLONASS/GPS antenna plug. The GLONASS/GPS antenna plug of the tracking device provides the necessary voltage for operation.



Pic. 8

GLONASS/GPS-antennas with F-type connector

Connect the GSM-antenna and the GLONASS/GPS-antenna to correspondent plugs, as shown in Picture 9.

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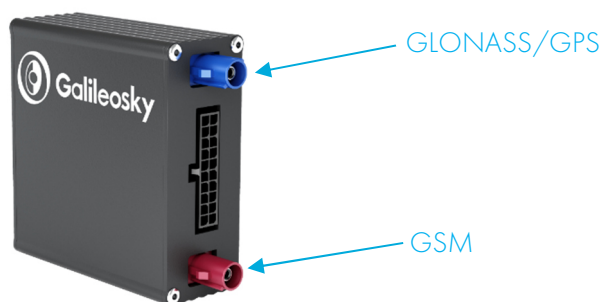


Pic. 9
Connecting
GLONASS/GPS-
antennas with F type
connector

2. Connection of GSM-antennas and GLONASS/GPS antennas with Fakra connector (picture 10) is carried out up to clicking position to the correspondent connectors as shown in Picture 11.



Pic. 10
Antennas with Fakra
connector



Pic. 11
Connecting antennas
with Fakra connector

Installation of Galileosky components in a vehicle

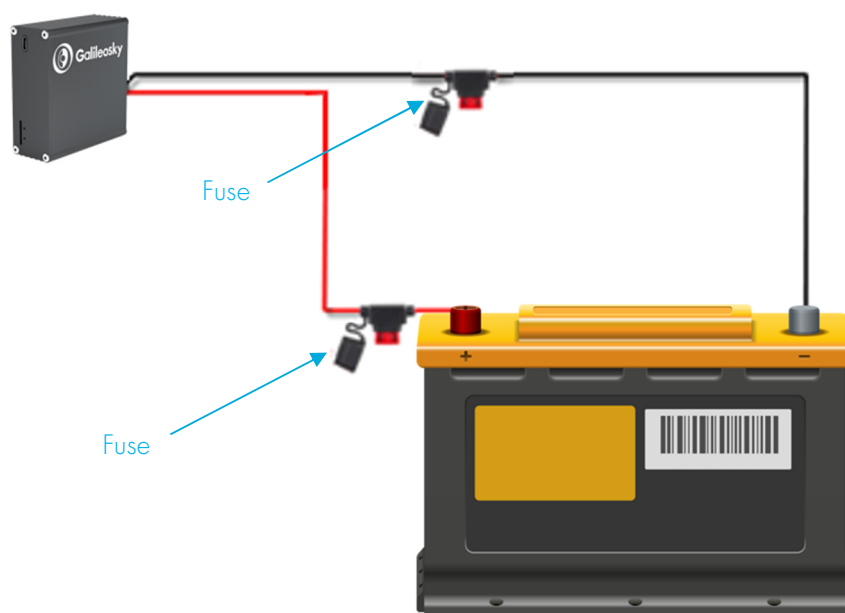
Connection schemes

Galileosky tracking devices can be connected to on-board power system by three different schemes. Riser diagrams and description of operation of these diagrams are shown in Appendix N°1 to this document.

1. Connection from the battery (Pic. 12). The main way of connection provides constant external power supply of the tracking device until the battery cut-off.

The order of connection is the following:

- carry out 2 (two) direct wires of red and black color from the tracking device to the battery;
- connect the black wire to the negative plug of the battery via 1A fuse;
- connect the red wire to the positive plug of the battery via 1A fuse.



Pic. 12

Connection from the battery

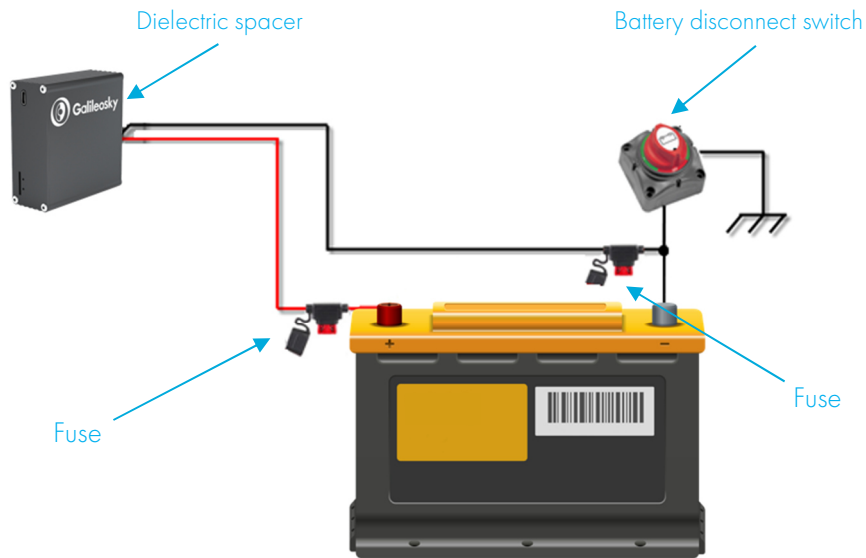
2. Connection from the battery with the battery disconnect switch (Pic. 13). It is the main way of connection on vehicles which have a battery disconnect switch. It provides constant external power supply of the tracking device until the battery cut-off.

The order of connection is the following:

- use a dielectric spacer to isolate the tracking device from the car body and fix it by means of dielectric fastener;
- carry out 2 (two) direct wires of red and black color from the tracking device to the battery;

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- connect the black wire to the negative plug of the battery via 1A fuse;
- connect the red wire to the positive plug of the battery via 1A fuse.

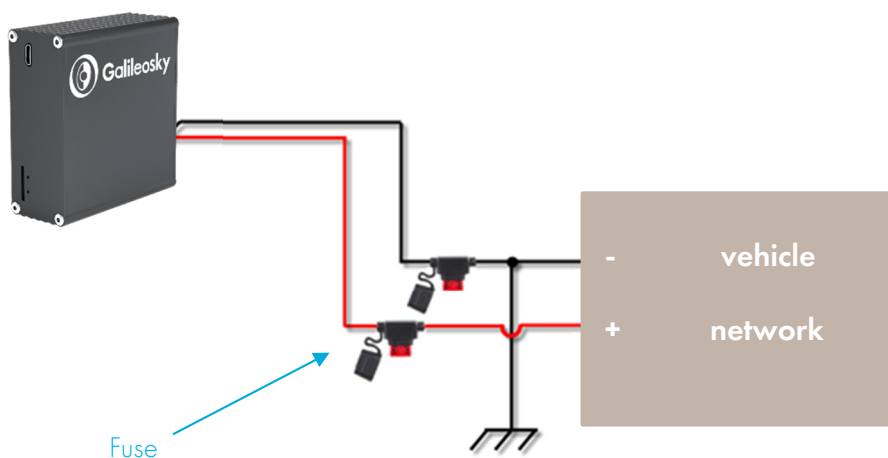


Pic. 13

Connection from the battery with the battery disconnect switch

3. Connection from the vehicle network (Pic. 14). This way of connection is used when the connection of the tracking device from the battery does not provide the required electrical safety level. The order of connection is the following:

- carry out 2 (two) direct wires of red and black color from the tracking device to the nearest places of location of the negative and positive contacts of the vehicle network;
- after disconnection of the ignition key use a multimeter to make sure that there is supply voltage in the positive contact;
- use a multimeter to make sure that there is electrical communication between the vehicle body and the negative contact of the vehicle network;
- connect the black wire to the negative contact via 1A fuse;
- connect the red wire to the positive contact via 1A fuse.



Pic. 14

Connection from the vehicle network

Galileosky tracking device placement in the driver's cabin

Galileosky tracking device is installed in the cabin under the shell of the control panel or fore-body. Possible ways of tracking device placement are shown in Picture 15 of this manual.

ATTENTION! There is an electrical communication between the tracking device body and the negative side of the power supply. In order not to damage the tracking device in vehicles with a battery disconnect switch you need to dielectrically isolate the tracking device body from the car body and connect the tracking device in accordance with the scheme of Picture 13 of this manual.



Pic. 15
Ways of Galileosky
tracking device
placement

GSM-antenna and GLONASS/GPS-antenna placement

The order of connection and placement of GSM-antenna and GLONASS/GPS-antenna is the following:

- place the GSM-antenna in the cabin as close to the windscreen as possible (Pic. 15) or on the vehicle roof, as shown in Picture 16;
- place the GLONASS/GPS-antenna in the cabin as close to the windscreen as possible (Pic. 15) on the vehicle roof, as shown in the Picture 16;
- carry out GSM-antenna and GLONASS/GPS-antenna wires to an installation place of the tracking device and connect them to the corresponding sockets of the device, as shown in Pictures 9 and 11.



Pic. 16

Ways of antennas placement