



# VEHICLE FINDER

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2.0





## Thank you for purchasing our FINDER!

### Before starting:

Read the instructions carefully, before using the FINDER for the first time. Please keep this user manual in a safe place in case you may need it in the future.

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### NOTE!

We update our user manuals on a regular basis, in order to keep up to date. The latest version can be viewed at any time at:

[paj-gps.com/finder](http://paj-gps.com/finder)

## 1.1 Scope of delivery

Your delivery will include:

- The PAJ VEHICLE Finder 4G 2.0
- A wiring harness
- A quick start flyer
- A M2M SIM card\*



\*the M2M SIM card is already inside your FINDER and is not replaceable.

## 1.2 Product description

Connection cable

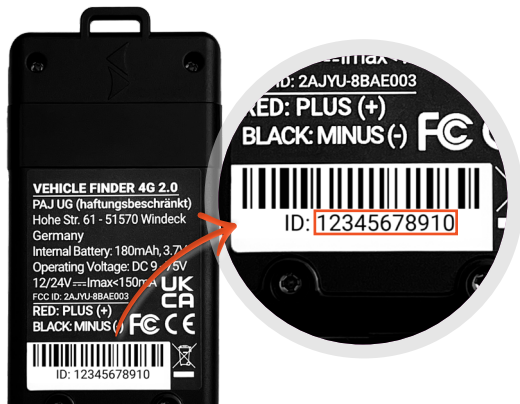
LED signals



Wiring harness connection

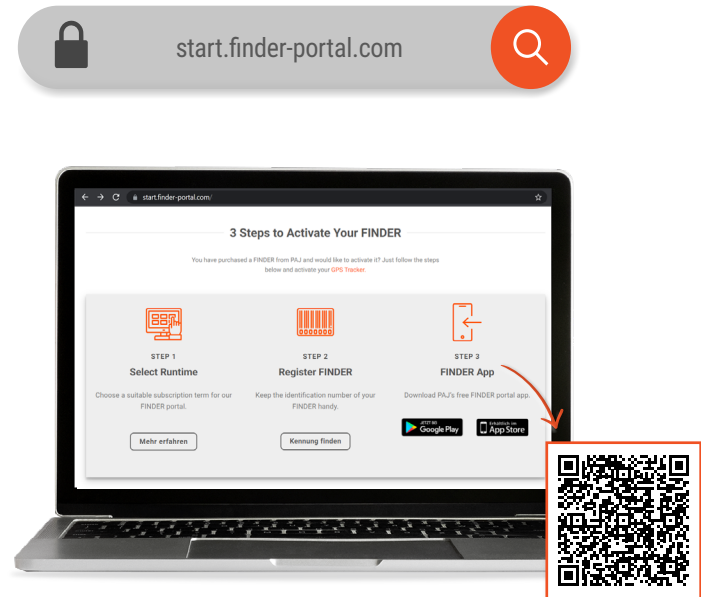
### NOTE!

To activate, you need the device ID. Please make a note of it before installing your FINDER!



## 1.3 Activation

In order to use your VEHICLE Finder 4G 2.0, you will need to previously activate it online. Enter the following link and follow the instructions:



## 1.4 Connection to vehicle

Please note the following points, before connecting to the vehicle:

- SIM card already placed in the VEHICLE Finder 4G 2.0
- The VEHICLE Finder 4G 2.0 should not be attached to gasoline lines or other flammable components
- No other components on your vehicle should be damaged by the attachment
- By installing the VEHICLE Finder 4G 2.0 on the vehicle battery, it is possible that this will be discharged to power the VEHICLE Finder 4G 2.0. If you regularly use your vehicle, this should not be a problem with a functioning battery, as it is constantly recharged by driving. If this is not the case, please check before connection whether your battery has a discharge protection and, if necessary, retrofit this. In idle state, the FINDER requires about 10-20 mAh

### NOTE!

Please always observe the manufacturer's specifications for your vehicle. Claims for damages for improper connections are excluded.

## 1.5 Installation



1. Mount the FINDER with the help of the adhesive strip in the engine compartment



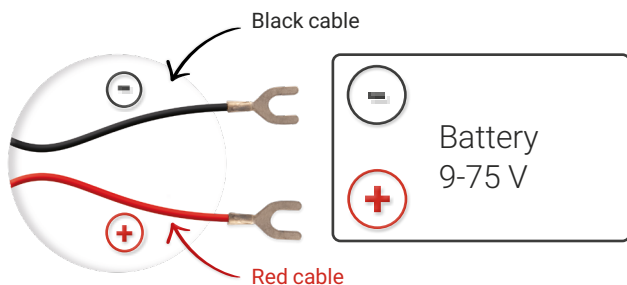
2. Connect the FINDER via the black plug function to the wiring harness



3. Connect the FINDER to the battery. Connect the **red cable** with the fuse to **PLUS (+)**. Connect the **black cable** to **Minus (-)**

## NOTE!

By connecting to the power supply, the FINDER turns on immediately and the LED lights give a signal. If the device is not connected to the vehicle battery but to another location (e.g., fuse box), this may cause the ignition on/off function to be not accurately recognized.



**⚠ WARNING!** The poles must not be swapped under any circumstances.

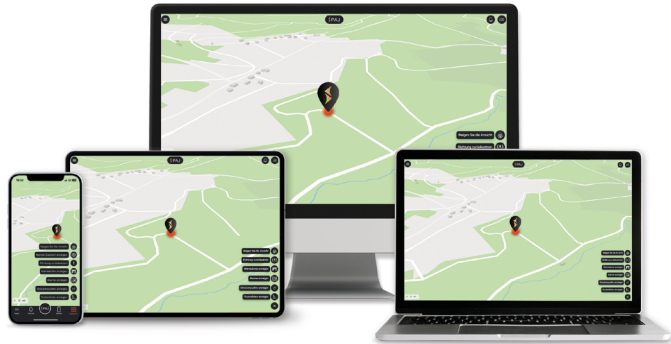
## 1.6 Start-up

If the activation was successful, you can start the VEHICLE Finder 4G 2.0. When connected to the power supply, the FINDER will switch on.

## NOTE!

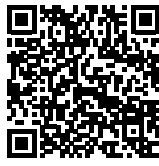
After you have successfully installed the VEHICLE Finder 4G 2.0 in your vehicle, it is advisable to move the vehicle for some time. For example, drive the car briefly to go shopping. This allows the device to log into the correct network faster and establish a first connection.

## 1.7 Use



As soon as your device has been successfully activated, started up and has sent and logged data for the first time, you can place it wherever you choose and use your phone, tablet or PC to start tracking it! You will be able to do this in our App or enter the following link to the desktop version:

[v2.finder-portal.com](https://v2.finder-portal.com)




## 1.8 Standby mode and location update

The PAJ VEHICLE Finder 2.0 4G sends its location information to the FINDER portal every 30 seconds when the vehicle is moving. As soon as the vehicle is stationary, the device switches to standby mode to save energy. The transmission of location data continues seamlessly as soon as the vehicle is moving again.

### Standby mode


As soon as the FINDER is no longer moved, standby mode is activated after a few minutes to save power. This suspends the update of the location for the duration of the standstill of the unit. In the FINDER portal, the standby mode is displayed as follows:

Device status  
 Standby

Nevertheless, the unit naturally remains on standby and still sends alarm messages. As long as the FINDER is in standby mode, only the data (time, battery status, etc.) of the last position before standby mode is displayed on the portal, as the position does not change during standby.

### Online mode

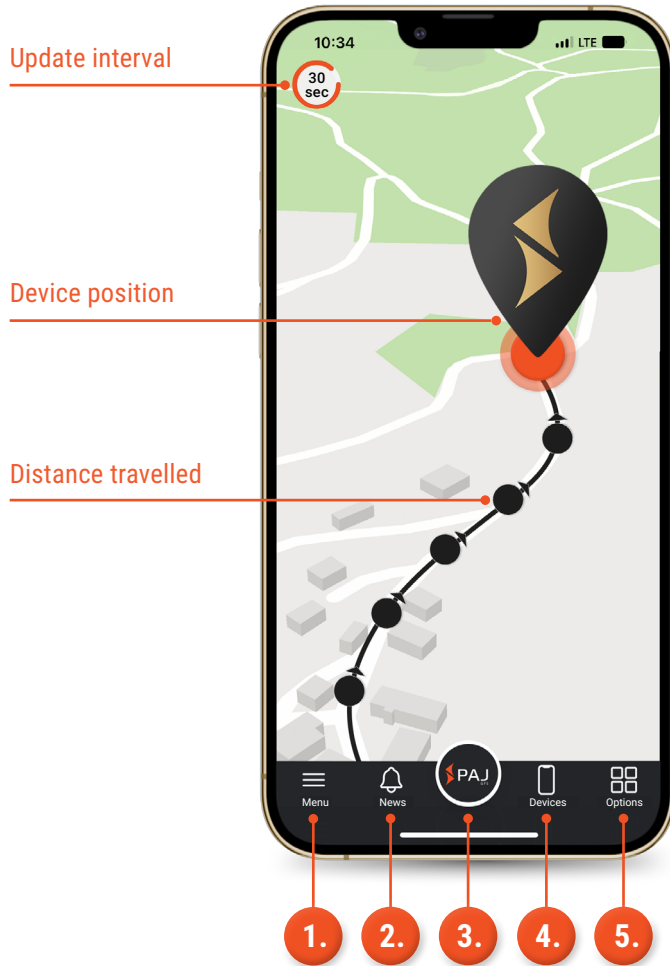
At the latest, when the FINDER is moved again, the device automatically switches to active and sends its position to the portal again every 30 seconds.

Device status  
 Online

### Location update in standby mode

If the FINDER is in standby mode for a longer period of time, the unit will still send a new position to the portal at least every 24 - 26 hours.

## 1.9 Short description FINDER-Portal



### 1. Application menu

View statistics, device settings, application settings, alert summary, extra features e.g. logbook etc.

### 2. Alerts and activities

Last activity, unread notifications, timeline

### 3. PAJ Logo

Update page/refresh

### 4. Device list

Overview devices, alert settings, travelled routes, customize device display

### 5. Options

Map view options



Detailed instructions for the FINDER-Portal can be found on: [paj-gps.de/portal-anleitung](http://paj-gps.de/portal-anleitung)

or scan this QR-Code.

## 1.10 Meaning of the LED lights

### Orange LED - Network



Signal	Meaning
The orange LED is on	Signal available
The orange LED flashes	No signal available
The orange LED is off	The GPS tracker is in standby mode or switched off

### Blue LED - GPS status



Signal	Meaning
The blue LED is on	GPS signal available
The blue LED flashes	No GPS signal available
The blue LED is off	The GPS tracker is in standby mode or switched off

#### NOTE!

Please note that the LED lights are hard to spot in daylight. The VEHICLE Finder 4G 2.0 is designed to discreetly protect vehicles from theft, which is why the LED lights are deliberately set fainter.

## 1.11 Alerts



### Movement/Shock alert

Receive a notification as soon as your GPS tracker is either moved or shaken.



### Geofence alert

Receive a notification as soon as your GPS tracker leaves your determined perimeter.



### Speed alert

Receive a notification as soon as your GPS tracker exceeds a certain speed (you can set the speed limit in the FINDER Portal).



### Ignition alert

Receive a notification as soon as your car is started or turned off.



### Voltage alert

Alert notification, as soon as the voltage of the vehicle battery deviates from the defined threshold. You can set the voltage threshold in the FINDER Portal.

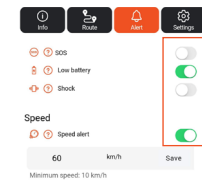


### Power cut alert

Receive a notification as soon as the GPS tracker is disconnected from the external power supply.

#### NOTE!

All alerts must be activated and deactivated via the FINDER-Portal. Once the alert is active you will receive a notification via the PAJ App and/or via email.





## 1.12 Technical data

Weight	80 g
Dimensions	94 x 50 x 19 mm 101 x 50 x 19 mm (including eyelet) length of connection cable: 50 + 150cm
Battery time*	approx. 12 hours (standby)
Battery type (internal)	3.7 V / 180 mAh Li-ion
Charger	fixed connection to vehicle battery: 9-75 V
Time to start	cold start: 3-5 min / standby: 1-3 min / in operation: 1-10 s
Network/Bands	LTE (23 dBm ± 2.7 dBm): B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/ B25/B26/B28/B66/B34/B38/B39/B40/B41 GSM/GPRS: GSM 850 / EGSM 900 (33 dBm ± 2 dBm) DCS 1800 / PCS 1900 (30 dBm ± 2 dBm) EDGE: GSM 850 / EGSM 900 (27 dBm ± 3 dBm) DCS 1800 / PCS 1900 (26 dBm ± 3 dBm / - 4 dBm)
Network module	SIMCOM A7670G
GPS chip	AT6558R
GPS accuracy	up to 5 meters
GPS reception	-162 dBm
Storage temperature	from -30 °C up to +80 °C
Operating environment	from -20 °C up to +75 °C
Humidity	10 % up to 85 %
Water protection	waterproof according to IP67

\*Emergency battery, when the FINDER is disconnected from the power supply.

## 1.13 Safety Instructions

### Signal words

The following signal words are used in these operating instructions:

#### NOTE!

This is a warning about possible damage to property.

#### WARNING!

This classifies a hazard of medium risk level. Failure to comply with the warning may result in serious injury.

### Proper use

Please read the safety instructions for this PAJ FINDER, hereinafter only referred to as GPS tracker, carefully before use in order to be able to deploy it properly. The intended use is to employ the GPS tracker only as described in this manual to locate an object or a living being. Please bear in mind that it is a criminal offence to monitor third parties using a GPS tracker without their consent. If you use it in any other way, this is considered improper use and can lead to damage to property or even personal injury. Please note that the GPS tracker is not a toy for children. In other countries and regions there are different laws on digital positioning and localization of people, animals and/or objects. PAJ UG is not responsible if such laws or regulations are violated, this is the sole responsibility of the user.

#### NOTE!

The manufacturer and dealer accept no liability for damage caused by improper or incorrect use.

## Safety



**WARNING! RISK OF ELECTRIC SHOCK!**

**A faulty electrical installation or a mains voltage that is too high can lead to an electric shock.**

- Before use, make sure that the mains voltage of the socket corresponds with the information on the type plate.
- To be able to disconnect the charging cable from the mains as quickly as possible in the event of a failure, connect the power supply unit where it is easily accessible.
- If you notice any visible damage to your GPS tracker or charging cable, do not use it.
- Use only the original parts supplied to charge the GPS tracker. If the charging cable is damaged, replace it only with original accessories from the manufacturer.
- Never place the GPS tracker near an open fire or hot surfaces.
- The GPS tracker is not protected against humidity and water. Please use and store it only in a dry environment.
- The charging cable should only be used indoors. Keep it away from humidity and do not kink it.
- Do not open the housing of the GPS tracker. Leave the repair to qualified specialists. However, if you carry out repairs yourself, connect the GPS tracker incorrectly or operate it incorrectly, liability and warranty claims are excluded.

## Hazards for children and vulnerable people



**WARNING! DANGER OF SUFFOCATION!**

Please do not let people (including children) with limited physical, sensory or mental abilities use the GPS tracker. It is considered an exception if they have previously received instructions from a person responsible for their safety on how to use the device.

Please be sure that they not play with small parts (e.g. accessories, etc.). These may be swallowed, leading to suffocation.

## NOTE!

Inform your child about the dangers and use of the GPS tracker.

## The battery



**WARNING! EXPLOSION AND FIRE HAZARD!**

Below you will find information and instructions on how to use the battery:

- The GPS tracker runs by a lithium ions battery. It is not exchangeable and must not be removed or opened.
- Make sure that the GPS tracker (also when charging the battery) is kept away from heat sources and high temperatures, such as direct sunlight in a vehicle. **Disregard of this instruction may result in destruction of the battery and overheating, explosion and fire.**
- Only use the original accessories for the charging process. If the battery is charged otherwise, this may result in overheating, explosion or fire.
- Do not burn or pierce the GPS tracker. Protect it from mechanical damage.
- If a child swallows the battery, seek medical aid immediately!

Removing or replacing the battery:

- Contact our support if the battery needs to be removed or replaced.
- Send the machine to us to remove or replace the battery.

- For safety reasons, do not attempt to remove the battery. Failure to remove the battery properly may result in damage to the battery and unit, personal injury and/or compromise the safety of the unit.
- PAJ GPS shall not be liable for any damage or loss (whether in contract or tort, including negligence) arising from your failure to comply with these warnings and instructions.



**WARNING! RISK OF CHEMICAL BURNS!**

**Batteries that leak due to damage can cause burns if they come into contact with the skin. Therefore, never open the battery.** However, if the battery leaks, please wear protective gloves.

## Electromagnetic compatibility

Please observe all rules and prohibitions and switch off the GPS tracker immediately in danger areas and if it might cause interference. Furthermore, it should not be used in the vicinity of, for example, medical equipment, fuels and chemicals, or in blasting areas. With mobile devices, malfunction due to interference may occur and affect performance. Transformers and very strong magnetic fields must be avoided. Otherwise there may be deviations in the transmission.

### NOTE!

Failure to observe these recommendations may result in malfunctions or damage to the GPS tracker.

## Cleaning



**WARNING! RISK OF DAMAGE!**

Below you will find information and instructions on how to clean the GPS tracker:

- Do not use aggressive cleaning agents or brushes for cleaning. **Do not clean the GPS tracker with metallic cleaning objects (e.g. knife, metal sponge). This may damage the surface.**
- Never put the GPS tracker in water, in a dishwasher (or the like) and do not use a steam cleaner.

**Correct cleaning:**

- The surface may be wiped clean with a slightly dampened cloth.
- The GPS tracker should then be wiped dry completely.

## Storage

If you are not using the GPS tracker for a lengthy period of time, turn it off. Place the tracker in its original packaging or in a carton of the same size. Protect the tracker from dirt and humidity.

### NOTE!

Keep the FINDER away from children's reach in order to avoid possible damage to property or personal injury.

## Declaration of conformity

Hereby, PAJ UG (haftungsbeschränkt) declares that the tracker, VEHICLE Finder 4G 2.0, is in conformity with the Directive 2014/53/EU. The complete text of the EU Declaration of Conformity can be found at the following Internet address:

[paj-gps.de/konformitaetserklaerung/](http://paj-gps.de/konformitaetserklaerung/)



## Packaging disposal

Dispose of the packaging according to type. Throw cardboard and paper to the corresponding container. Foil belongs in the recyclables collection.



## 1.14 Disposal of used batteries

The following note is addressed to those who use batteries or products with products with built-in batteries and who will not resell them in the form in which they were supplied to them (end users).

### Free recall of used batteries

Batteries must not be disposed of with waste. You are legally obliged to return used batteries so that proper disposal can be guaranteed. You can return used batteries to a local collection point or to your local retailer. As a distributor of batteries, we are also to take back used batteries, although our obligation to take back used is limited to the type which we carry or have carried as batteries in our range. Used batteries of the aforementioned type can therefore either be returned to us with sufficient postage or handed in directly to our dispatch warehouse at the following address free of charge:

**PAJ UG (haftungsbeschränkt)**

**Hohe Straße 61**

**51570 Windeck**

**Germany**

**E-Mail: [info@paj-gps.de](mailto:info@paj-gps.de)**

## Meaning of the battery symbols

Batteries are marked with the symbol of a crossed-out dustbin (see illustration). This symbol indicates that batteries must not be disposed of in household waste. Batteries containing more than 0.0005% mercury by mass, more than 0.002% cadmium by mass or more than 0.004% lead by mass are also marked with the chemical name of the pollutant below the dustbin symbol. The abbreviation „Cd“ stands for cadmium, „Pb“ for lead and „Hg“ for mercury.



## 1.15 Disposal of electric devices

The Electrical and Electronic Equipment Act (ElektroG) contains a large number of requirements for the handling of electrical and electronic equipment. The most important ones are summarised here:

### 1. Separate collection of WEEE

Waste Electrical and Electronic Equipment that has become waste is referred to as WEEE. Owners of WEEE must dispose of it separately from unsorted local waste. In particular, WEEE does not belong in household waste, but in special collection and return systems.

### 2. Batteries and accumulators

As a rule, owners of WEEE must separate spent batteries and accumulators that are not enclosed in the WEEE before handing them over at a collection point. This does not apply if the WEEE is handed over to public waste management authorities and separated from other WEEE there for the purpose of preparation for reuse.

### 3. Options for returning old appliances (WEEE)

Owners of WEEE from private households can hand it in to public waste management authorities or at the collection points set up by manufacturers or distributors as defined by the ElektroG. An online directory of collection and collection points can be found here:

<https://www.ear-system.de/ear-verzeichnis/sammel-und-ruecknahmestellen.jsf>

### 4. Data protection

Old equipment often contains sensitive personal data. This applies in particular to information and telecommunication technology devices such as computers and smartphones. For your own sake, please note that each end-user is responsible for deleting the data on the old equipment to be disposed of.

### 5. Meaning of the „crossed-out dustbin“ symbol

The symbol of a crossed-out dustbin regularly displayed on electrical and electronic equipment indicates that the respective device must be separated from unsorted local waste at the end of its service life.



### 6. Manufacturer registration number

As a manufacturer, within the meaning of the ElektroG, we are registered with the responsible foundation Elektro-Altgeräte Register (Benno-Strauß-Str. 1, 90763 Fürth) under the following registration number: **DE33887550**

## DO YOU HAVE ANY QUESTIONS?



In this case, please contact us  
and we will be delighted to help you!

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The PAJ GPS Team wishes you to enjoy your  
VEHICLE Finder 4G 2.0!



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