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LandAirSea Tracking Key

READ THIS BEFORE USING THE LANDAIRSEA TRACKING KEY





- 1. KNOW HOW GPS WORKS.** The LandAirSea Tracking Key uses GPS to find its location. In order to lock onto the location, the GPS should have a direct line of sight to 3 locations in the sky and these locations are changing constantly throughout the day. Make sure that there isn't any metal completely blocking this upward / outward line of sight. GPS signals will go through plastic, glass, rubber, fiberglass, cloth material, or anything else not made of metal. The more metal obstructions that are above and around the GPS sensor the longer it will take to lock onto the location (GPS sensor is inside the Tracking Key). Make sure you choose an optimal location to place the unit for good tracking results. An example of placement for the Tracking Key is the glove box but depending on the design of the vehicle, it may take longer to lock onto the location. If the glove box is very low inside the vehicle with a lot of obstructions, it may not be able to track. In this case you will have to find a better location to place the GPS unit.
- 2. TAKE A TEST DRIVE (VERY IMPORTANT).** Place the Tracking Key outside with new batteries. Make sure the unit has a clear view of the open sky. Wait a minute or 2 for the device light to start flashing. Once it starts flashing, take the unit on a test drive for at least a few miles. Now download your test data by following the Quick Start Guide for Software Installation and Downloading Data.

Unit Placement





Location of the GPS Unit	Effectiveness	Comments
On the front or rear dash board	99%	Probably one of the best locations to keep your unit if you do not need to conceal the device. You can place the unit in a box of tissues or in something on the dash.
Under the Front or Rear Dash Board	95%	It is important to remember that the unit must be high enough up in the dash board to make an effective lock. Spotty data will indicate that your placement may need to be adjusted.
In the Glove Box	80-95%	This is good location to keep your unit. Effectiveness may vary from one vehicle to another, but if placed properly it should work in the glove box of almost any vehicle.
Under or on the Seat.	70%	Placement under the seat will vary from vehicle to vehicle. If you must place the unit under the seat, make sure you test it for a day or two to make sure it will work in your vehicle.
Under the Vehicle	70%	Placement under the vehicle will vary from vehicle to vehicle. If you must place the unit under the seat, make sure you test it for a day or two to make sure it will work in your vehicle. LandAirSea does not guarantee that the Tracking Key will work in this location. If the unit is not properly gathering data you may have to adjust your location.


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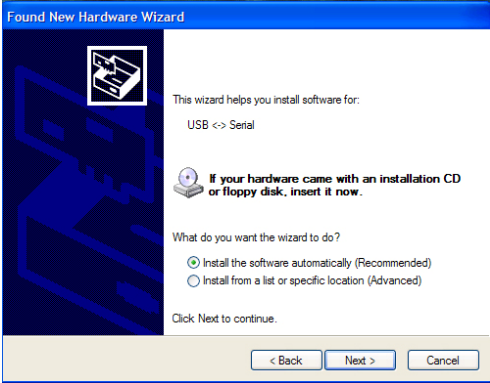

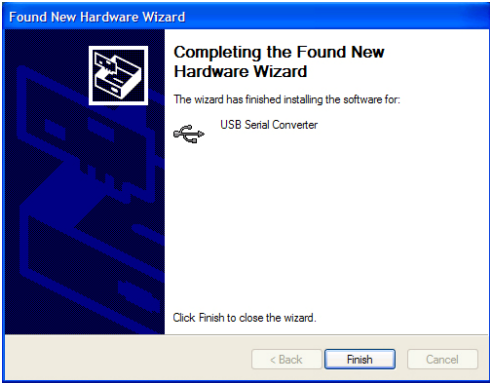

Software Installation

	Software Installation
	Install the Past-Track 8.0 software <u>BEFORE</u> connecting your Tracking Key device to you computer. See below.
	Installing the Past-Track 8.0 Software
	Place your Past-Track version 8.0 installation CD into your computer's CD drive tray. Follow the prompts. For a normal installation, click Next through most of the prompts. After installation, <u>LEAVE</u> the CD in your CD Drive.

Connecting the LandAirSea Tracking Key to Your Computer

	<u>You must go through these steps to successfully download data from your LandAirSea Tracking Key.</u>
Step 1	Preparing to Install
	Ensure that you have your Past-Track version 8.0 disk in your CD drive.
	Place fresh AAA batteries in your tracking key, and plug it in to your computer's USB port.
Step 2	New Hardware Found
	














	<p>Select “No, not at this time” and hit Next. (If your computer does not automatically find your device, reboot your computer with the Tracking Key connected to your PC).</p>
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<p>Step 3</p>	<p>Driver Installation</p> 
<p style="text-align: center;"></p> <p>Step 4</p>	<p>Select “Install software automatically” and hit Next.</p> <p>Finish Installation</p> 
<p style="text-align: center;"></p>	<p>Select Finish.</p>

You are now ready to download tracking data by running the Past-Track software.

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QUICK START GUIDE - Downloading Data

	Preparing to download.
	Remove the protective cover from the front of the unit. This will expose the USB plug.
	Check your batteries
	Ensure that you have fresh batteries in your unit. After long tracking sessions the batteries in your unit may be worn down.
	As your batteries approach low levels, the GPS performance may decrease and the battery indicator will turn red. At this point you may not be able to download your information off of your unit. <u>If you are having difficulty downloading your unit always change the batteries out before you do anything else.</u>
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Step 1	Plug the Tracking Key into your computers USB port.
	<i>Be sure that you have completed all of the steps on the “Software Installation” before proceeding any further.</i>
	Remove the protective cap from your Tracking Key and plug it into your computers USB port. Give your computer about 10 seconds or so to properly detect. If you have sound on your computer, you will hear a tone.
Step 2	Finding your device.
	Run Past-Track by double clicking on the Past-Track icon which you should be able to find on your Desktop.
	Click on the  in the Icon Bar.
	A new screen will appear. Now click the button called <u>Find Port.</u>
	You should get the message saying “Device Found”. Hit <u>OK.</u>
	<i>If you receive the message “Device Not Found” please refer to the trouble shooting guide for corrective actions.</i>

Step 3

Download your unit.



To erase existing data on your unit place a check mark in the box labeled “Erase data log after download”. If there is a check mark in that box the system will erase any stored data off of its internal memory after it is done downloading.



Click the **Download** button on your screen.



If you receive an error message please refer to the trouble shooting guide.

Step 4

Save your data.



Once your unit is completely done downloading you will be prompted to save. The standard(default) format for any file after its downloaded is:

mmddy.las

mm = month of the last time the unit tracked

dd = day of the last time the unit tracked

yy = of the last time the unit tracked



If you do not rename the data, this is the name that will be given to your data once it is saved. Never change the .las extension.



Remember where you save your data, it is important to always look at where your file is being saved. It is a good practice to use the default folder location: “My Tracking Data”.

Step 5

Viewing your data



At this point you will be prompted on how you would like to open your data. There will be three options:



- Google Earth (You must have this installed before you are able to select this option. *See Quick Start Guide- Satellite Images*)
- Street Maps (U.S. Only) *
- Activity Report

Once you have made your selection it will be displayed for you.

* Do not select the Street Maps option if the data was not recorded in the U.S.

QUICK START GUIDE - Satellite Images

1. You must install Google's Earth Software

If your computer is more than 2 years old, then Google Earth may run slow or not at all on your computer. Go to www.landairsea.com/earth.html for more information on running Google's Earth software.

Step 1	Go to http://earth.google.com/download-earth.html and click on the "Download GoogleEarth.exe" button. Save the File to your desktop.
Step 2	Double click the file that you just downloaded and follow the on screen steps to begin the installation of Google Earth.

2. Viewing Tracking Data in Google Earth

Step 1	Open or download tracking data from your LandAirSea Tracking Key using the Past-Track software Version 8.0
Step 2	You will be prompted to open your data in 3 different formats, select Google Earth. If you have already opened your data in the U.S. Street Mapping, in the icon bar at the top of the screen, click the icon denoted with a globe (Third button from the left).
Step 3	Google Earth will now automatically launch and your tracking information will be displayed. HINT: MAKE SURE YOU PUT A CHECKBOX NEXT TO "ROADS" IN THE LAYERS WINDOW.

Basic Google Earth Controls

The diagram illustrates the navigation controls in Google Earth. It shows a central directional pad with arrows for 'Up, Down, Left, Right' movement. To the left of the pad are two circular buttons for 'Rotate Counter Clockwise' and 'Rotate Clockwise'. To the right are two more circular buttons for 'Rotate Counter Clockwise' and 'Rotate Clockwise'. Below the pad are two vertical sliders for 'Zoom in / Zoom out' and 'Tilt Forward or Backward (3D)'. Below the diagram is a screenshot of the 'Places' window in Google Earth, showing a list of tracking stops with their arrival and stoppage times. The stops are:

- Arrived on Thursday, October 20, 2005 at 05:20:28pm. Stopped for 3 Hours 33 Min 21 Sec. [Stop #25](#)
- Arrived on Thursday, October 20, 2005 at 09:08:08pm. Stopped for 12 Hours 13 Min 29 Sec. [Stop #26](#)
- Arrived on Friday, October 21, 2005 at 09:37:07am. Stopped for 6 Min 20 Sec. [Stop #27](#)
- Arrived on Friday, October 21, 2005 at 10:09:01am. Stopped for 3 Hours 53 Min 35 Sec.

Double Click on the Stop # to zoom in to that location