



For live Tech Support:
Call Certified Tracking Solutions
1.780.391.3800
Toll Free **1.855.287.4477**
8AM to 5PM
Monday to Friday MST

STEP 1 Determine Mounting Location/Orientation

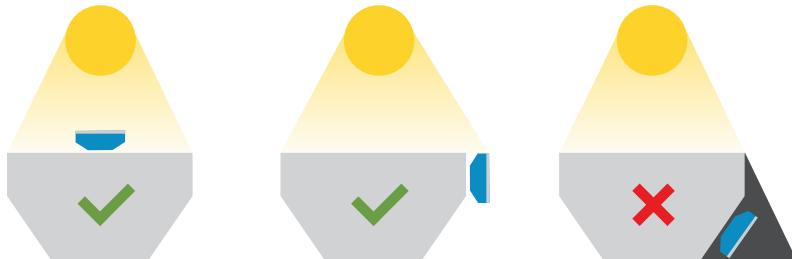
Units should be installed with solar panel facing directly towards the noon sun. At bare minimum have the solar panel no greater than 90 degrees away from the noon sun

Avoid mounting the device where shadows may cast upon the solar panel

Avoid placing device inside a container made from any conductive materials or partially mounted into a bracket made from any conductive materials. Doing so may potentially degrade GPS and cellular reception.

Avoid mounting the device in low locations where dirt, grease, or any other staining particles can be introduced by rotating wheels. Excess dirt, grease, or staining materials on the solar panel will reduce the amount of charge the device can receive.

Avoid mounting the **AC1SPSOLAR** to locations that are high risk to predictable physical harm.



STEP 2 Physically Mount the Device

The **AC1SPSOLAR** was designed to be mounted to an asset using the equipped magnet mounts. These magnets can support a load up to 22 pounds.

For other applications the device can be mounted using the two flanges (two holes per) at each end of the housing for screw mounting, or using double sided tape.

STEP 3 Determine Installation Type

The **AC1SPSOLAR** device has two installation types depending whether your application requires an input cable (optional).

TYPE 1 Without Input Cable / Device is charged solely by the sun

INSTALLING STEPS (device **without** input cable)

Step 1 Mount the device as per "Mounting Location/Orientation" and "Physically Mounting the Device" recommendations above

Step 2 Wake Up the Device – The **AC1SPSOLAR** device is delivered in "shipment mode".
To start the device, hold the black button located near the circular connector on the side panel of the device for 3 seconds.

Step 3 Proceed to "Testing the Device"

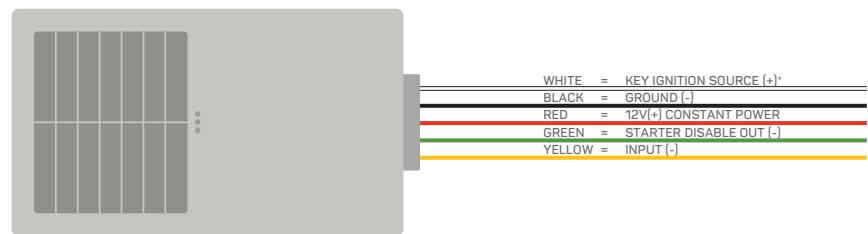


TYPE 2 With Input Cable / This allows for the device to charge via a wired connection and/or the sun. In addition inputs and outputs can be used

INSTALLING STEPS (device **with** input cable)

Step 1 Install input cable into the asset using the wiring diagram below. Connect cable to **AC1SPSOLAR**.

installation diagram



*Optional: device can be programmed to see either wired or "virtual ignition" status depending upon availability in the asset

Step 2 Mount the device as per "Mounting Location/Orientation" and "Physically Mounting the Device" recommendations above

Step 3 Wake Up the Device – The **AC1SPSOLAR** device is delivered in "shipment mode".
To start the device, hold the black button located near the circular connector on the side panel of the device for 3 seconds.

Step 4 Proceed to "Testing the Device"



STEP 4 Confirm LED Status

OPTIMAL	BLUE	Slow Blinking	Connected to Cellular /Online
	GREEN	Slow Blinking	Valid GPS
NOT OPTIMAL	BLUE	Fast Flashing <i>(several times per second)</i>	Searching for Cellular
	GREEN	Solid	Searching for GPS

If either of these "not optimal" LED states exist we recommend moving the asset outside with a clear view of the sky

STEP 5 Testing the Device

Always be sure to "test" the device first before sending the asset into service. This will confirm that the device is operating normally. There are two options;

OPTION A Call Certified Tracking Solutions

Call us at 1.855.287.4477 and we will run through our test process to ensure everything is connected and mounted properly.

OPTION B Self Test

Step 1 Go to AutoConnectGPS.com and click on **Customer Login**



Step 2 Enter the **AC1SPSOLAR** serial number (ESN) for both the **User Name** and **Password** to login.



Step 3 Click **Login**

Step 4 Click on device serial number on the left side of the screen. The **Asset Info** box will open on the bottom left corner of the screen.



Step 5 The icon on the map should have a red 'dot' below it. If it has an exclamation mark (!) it means that the device has 'invalid' GPS. In this case you will need to move the device outside.

F.A.Q.

How long does the battery take to charge? How long will it last?

The device takes about 71 hours to charge from a completely discharged state. The length of operation of the device depends on its configuration. The longer the device is able to sleep the more power it saves. The current battery voltage value can be seen on the website inside the Asset Info Box under the "Backup Battery Voltage" section. The voltage on the battery can span from 3.3V to 4.1V, which are the low and high level limits respectively.

Why does my battery take forever to charge?

If you are not seeing a "Backup Battery Voltage" of 3.9V or 4.0V after 71 hours of charging, you may need to check if you are indeed charging the battery correctly. There are two ways to charge the device. The solar panel charging is highly dependent on its quality of sun exposure. If an external power source is available you can charge the device via the optional cable harness. If the device is turned on and operating normally it can take longer to reach a full charge or may never fully charge if always being used.

Does this device require any physical maintenance?

A routine spray wash of the solar panel can be administered to clean any grease, grime, or dirt from the solar panel. These contaminants may degrade the solar panel performance over time. In most situations if the device is mounted with the solar panel directly facing the sky, rain may be enough to keep the panel clean.

Why isn't this device showing its current location?

The most common reason is that the device doesn't have enough power to operate. If your device does not have the blue LED and green LED blinking on while awake, then it needs to be recharged. Another reason could be that the device is inside a building or in an area where there is either no cellular or GPS signal available. In this instance, move the device so it has a clear view of the sky.

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