

### WhereSafe XTracker Solar Manual



#### How WhereSafe and your XTracker Solar Work

1. With the WhereSafe GPS Tracking service plan, the XTracker Solar updates every 2 minutes when moving. It goes into standby mode when no movement is detected and updates once every 24 hours.
2. The battery has a standby time of approximately 4 years (based on a full charge). It is rechargeable using the included charging cable and wall charger, solar panel, and optional trickle charging cable.
3. During charging, the RED LED light will be on solid. When the battery is fully charged, the RED LED light will turn off. The estimated charging time for a depleted battery is 12 hours.
4. Download the WhereSafe app (download for free from the App Store or Google Play Store) and create an account. You will be prompted to Activate your device. If you already have an account, login to your app and click "Activate Device", and follow the instructions.
5. Change email, phone number and notification delivery type (Email, SMS/Push) from Account Settings, and setup your preferred notifications:

NightWatch – Get alerts when vehicle movement is detected within a timeframe you define.

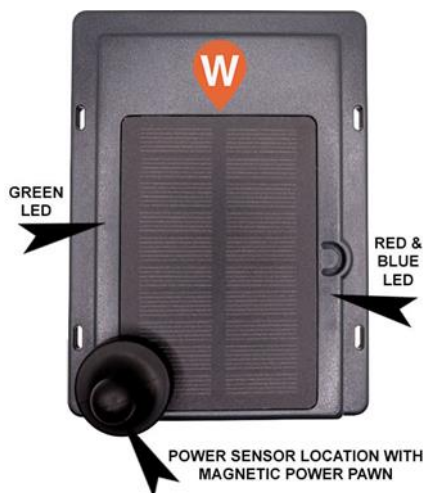
RideMonitor – Get speeding, harsh braking and acceleration alerts.

SafetyNet – Choose your city and get notified when the device enters or leaves that area.

TamperGuard – Get instant notifications when your device is disconnected.

#### Turning the XTracker Solar ON and OFF

The XTracker Solar can be turned on and off by using the included magnetic power pawn. It can be used by holding the pawn over the power sensor location (see image below).



1. **CHECK STATUS:** You can check to see if the device is ON or OFF by tapping the power pawn to the sensor location for 1 second (or less). If the device is ON, the blue LED will blink twice. If the device is currently off, the red LED will blink twice.
2. **TO TURN ON DEVICE:** Place the magnetic Power Pawn on the power sensor location and hold it there for 3-5 seconds. The red LED will flash 3 times, and then the blue LED will flash one time once it makes a network connection. This device is now ON.
3. **TO TURN OFF DEVICE:** Place the magnetic Power Pawn on the power sensor location and hold it there for 3-5 seconds. The blue LED will flash 2 times, then the red LED will flash 15 times. This device is now OFF.

LED indicator

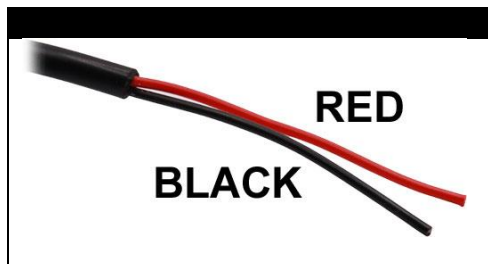
Red LED (Power)	OFF	Device is in standby mode (sleeping) or power is turned off, or charging is complete.
	On SOLID	Charging
Blue LED (Cellular/Network)	15 blinks	Device is turning off
	OFF	Device is in standby mode (sleeping) or power is turned off
	1 blink	Normal operation (when not in standby mode)
	2 blinks	Server error
	3 blinks	Network error
	4 blinks	No network
	5 blinks	SIM PIN Locked
	6 blinks	Weak cellular signal
Green LED (GPS)	7 blinks	No SIM inserted
	OFF	Device is in standby mode (sleeping) or power is turned off
	1 blink	Normal operation (has GPS fix)
	2 blinks	No GPS fix
	4 blinks	GPS antenna / chipset error

Solar Panel Trickle Charging

The solar panel will trickle charge the battery when exposed to sunlight. 1 hour of sunlight equals up to 9 GPS updates. If the device is in standby mode (1 report every 24 hours), then 1 hour of sunlight will provide enough charge for 9 days of standby time.

Installation - Wiring for XTracker Solar Trickle Charging Cable (Not Included)

The optional Trickle Charging Cable allows you to connect the device to a vehicle's (12V-24V) battery, or any other wire with constant power. This will trickle charge the XTracker Solar battery when required. The Trickle Charger comes with two leads: red and black.

	Wire color	Wire function
	Red	Supply voltage, 12-24V
	Black	Grounding wire

Power Connection – The power supply range is 12V – 24V. Connect positive power to the red wire, and negative (ground) to the black ground wire.

Recommended installation locations on a vehicle

- 1) The best spots for GPS trackers are close to windows, on the dashboard of the vehicles, or in the rear window and will provide the most unobstructed view for obtaining a GPS position.
- 2) Any thermal barriers or heating layers on the windshield may affect the signal.
- 3) Other common installation spots are under the dashboard, or any other area/compartments with access to wiring/power locations.
- 4) DO NOT install device within a metal container as this will disrupt the GPS signals.

- 5) If installing under the hood or within a compartment, make sure to test the device can get a signal and update its location properly.

#### Power Draw of XTracker Solar

The XTracker Solar uses power when performing certain functions. These figures can be used to determine the power draw when installed and connected to a vehicle battery using the Trickle Charger.

1. Active mode (connecting to network, acquiring GPS, sending reports) = 30 mA - 60 mA
2. Deep Sleep Mode = 7 uA
3. Charging (until battery reaches 4.2 volts) = 485 mA
4. Trickle charging (after battery reaches 4.2 volts) = 25 mA

#### Troubleshooting

*After the XTracker Solar is turned on, the Blue LED (Cellular) is continuously flashing.*

The signal is too weak or the device isn't registered to the network. Move the device to a place with good cellular network coverage. If the problem persists, refer to the "LED indicator" section above or call WhereSafe Support.

*The XTracker Solar is not getting a GPS signal.*

The GPS signal is weak. Move the device to a place under open sky. GPS signals are not guaranteed while indoors (parking garage, underground, etc). If the problem persists, refer to the "LED indicator" section above or call WhereSafe Support.

**For all other support questions, please contact us at [support@wheresafe.com](mailto:support@wheresafe.com) or 1-888-386-3024.**