

Tips and guidelines to

INSTALL

AND MOUNT SOLIDTRACK HARDWARE

Before you begin

1

**Manage device.**

Log in to the SolidTrack platform.

2

**Configure device.**

Edit settings to fit your tracking needs.

3

**Activate device.**

Place a magnet left of "Activate with magnet" on the label.*

4

**Mount device.**

Follow the instructions below when possible.

* Hold the magnet still until the LED flashes red continuously. Note: it may take up to 15 minutes for new units to stop blinking and appear online.

Get started

5 tips for installation

We recommend reading the full manual to learn how to give your SolidTrack hardware the best conditions for a long, energy-efficient life. To get started, keep these five tips in mind.

- ✓ Install with the label facing up or pointing outwards to an open view of the sky whenever possible.
- ✓ Choose a safe, discreet location to avoid detection, removal or vandalism.
- ✓ Install the unit on a solid flat area directly on the asset to best track movement and vibration.
- ✓ Install where the unit is unlikely to suffer direct impacts (tree branches, tools, or the ground).
- ✗ Never install the unit where it is completely surrounded or covered in metal or similar materials.

Guidelines for installation

A SolidTrack Field Unit has many use cases and can be installed in countless places on very different assets.

But there are two general guidelines that serve as best practices for installation. You should aim to fulfil both whenever possible.



Secure optimal conditions for GSM and GPS signal reception.

Place the hardware away from potential hazards and in a discreet spot to avoid detection.

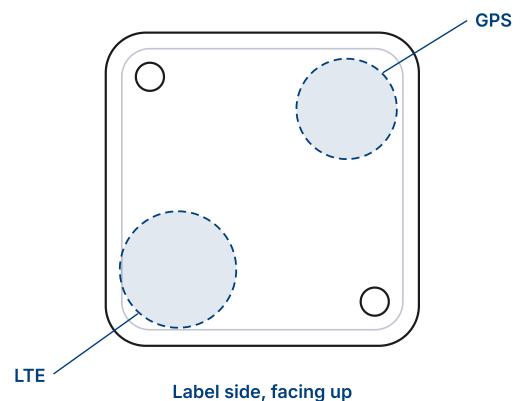
1. Optimal connectivity

Secure a clear connection

The Field Unit transmits data over mobile networks, much like a mobile phone. If your phone has a poor connection at a specific location, the unit will too.

With this in mind, always aim to install units where conditions for a data connection are good. The same applies to receiving the most accurate GPS position.

- ❌ Never install the unit encapsulated in metal or similar material such as wire netting or foil. This severely limits its ability to capture GPS satellite signals and degrades GSM reception and transmission, creating a Faraday shield.
- ✅ Obtain the best radio path with horizontal placement. Face the label upwards with the GSM and GPS antennas uncovered. If the unit sits in a corner, place the GSM antenna away from the corner.
- ✅ When mounting on a vertical or inclined surface, aim for the most unobstructed sky view possible for the GPS antenna.



Antenna areas

2. Safe location

Choose a safe and discreet location

Even though the Field Unit is very robust, it is still worth avoiding clear and obvious hazards. This protects both the unit and the parts used to install it, such as screws or magnets.

Keep the maximum levels of operation stated in the product sheet in mind to maintain product warranty.

- ✓ **Respect the following conditions to maintain product warranty. Maximum impact / shock / vibration value: 8 g. Operating temperature range: -30 °C to +85 °C.**
- ✓ **Install where the unit is unlikely to suffer direct impacts (tree branches, tools, or the ground). Where possible, also avoid unnecessary exposure to water, chemicals, mud, sand or stone chippings.**
- ✓ **Avoid detection, removal or vandalism by selecting a discreet location. Where relevant, installations above 2.5 metres are preferred, as they are harder to spot and reach than a location at ground level.**

Installation based on use case

Tips for securing the data you need

While keeping the best-practice guidelines in mind, see below for mounting tips based on the most common use cases, so you capture the data you actually need.

Position data

Theft protection

- ✓ **Place the unit in a discreet location. Choose somewhere out of sight and away from where traditional wired tracking hardware is typically installed, as thieves will know where to look.**

Remember that the unit should not be entirely surrounded by metal. Test the location by checking your signal quality in the SolidTrack platform before installing permanently.

Fleet overview

- ✓ Place the unit for best GPS reception. Follow the best-practice guidelines whenever possible. When installing on similar assets, consider choosing a similar mounting location.

Utilization data

Running hours

- ✓ Place the unit directly on the asset in a flat area to best track motion and vibration. Install away from places of direct impact from stone or debris. Consider installing it with the protective cover.

Service intervals based on distance

- ✓ Place the unit for best GPS reception. Follow the best-practice guidelines whenever possible. When installing on similar assets, consider choosing a similar mounting location.

Accelerometer data

Impact recorder

- ✓ Place the unit directly on the asset in a flat area to best track drops, hits and impacts. Install away from the most likely points of impact. Consider installing it with the protective cover.

Handling, tilt or rotation

- ✓ Place the unit directly on the asset in a flat area to best track changes in inclination or rotation. If placed on a pallet, install away from the most likely points of impact, or consider the protective cover.

Humidity and temperature

- ✓ Place the unit so the humidity and temperature sensor has clear access to the surrounding air, while staying close to the assets you want to keep safe.

Remember that the unit should not be entirely surrounded by metal. Test the location by checking your signal quality in the SolidTrack platform before installing permanently.

Miscellaneous

Other things to consider

Following the tips above gives your SolidTrack hardware the best start. These last few points are meant to make the process easier still.

- ✓ When installing units on similar assets, consider choosing a similar mounting location for a quick, repeatable installation process.
- ✓ Make a note or take a picture of your installation for later reference or replacement. Save the information in the SolidTrack platform.
- ✓ If you want the flexibility of moving a unit between different assets, consider installing it with a magnet kit (sold separately).
- ✓ Use the SolidTrack mobile app while installing: set up basic configuration, or take notes and upload pictures of your installation directly from your phone.



Always install and fasten units properly with quality installation kits, especially on moving assets in traffic.

Installation kits

Mount with screws or quality magnets

SolidTrack hardware is designed to be installed with either screws or magnets.

Screws are best for permanent installations. If you want the flexibility of moving the unit between different assets, a magnet kit is the recommended option.

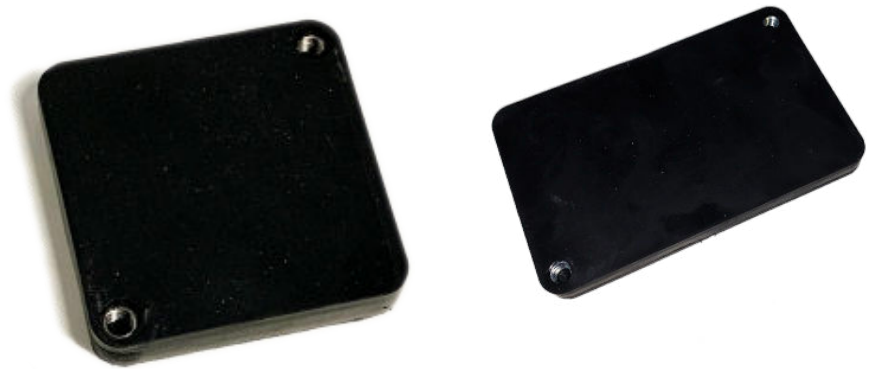
When attaching units with screws, be careful not to tighten too hard: exceeding the recommended torque moment of 3 Nm can compromise the durability of the unit.

Both installation kits are available from SolidTrack (sold separately).

Screws



Magnets



Support options

Support or personal service

For support or personal service, please contact your SolidTrack partner or Solidus Makina directly.

For more information or general support on the SolidTrack tracking solution, get help online from the support centre at solidtrack.io/support.