

# INSTRUCTIONS



## Compatible with:

- iOS 7 and above
- iPhone 4s and above
- iPod touch 5
- iPad 3 and above
- Android minimum requirements are device with BLE 4.0 and Lollipop OS

## Requires 4 x AAA Batteries

For more information and updates visit [www.pocketpit.net](http://www.pocketpit.net)

The pocket pit lap counting system uses a small line of sight infrared transponder to send a predefined code to the track side receiver box. The receiver box connects to a mobile device using Bluetooth to automatically count and time your laps using a real time stopwatch within the Pocket Pit app.

## Installation

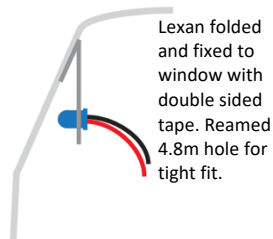
The receiver box requires 4 x AAA batteries (Not included). Remove the retaining screw on the base of the unit and install batteries before operation.

## Personal Transponder

Plug the personal transponder into a spare receiver slot.

## Transponder Mounting Options

Using a piece of Lexan, install the blue infrared LED into your car so it is directed out of one of the side windows. It could be mounted directly on the window (as shown) or on the chassis of the car.

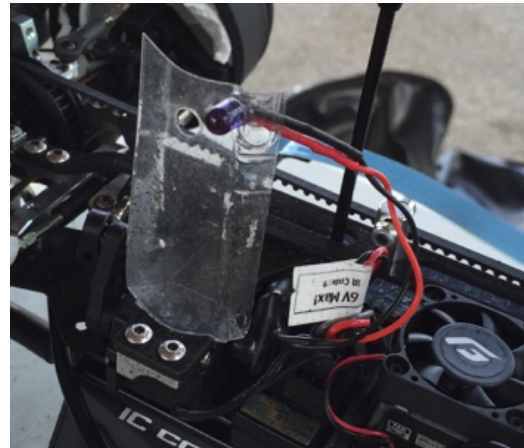
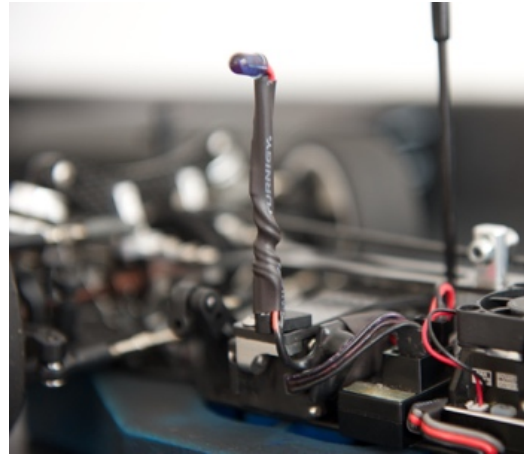


Ream a small hole directly in the side of your shell to form a small 4.8 to 5mm hole and create a tight interference fit for your IR LED to fit into. The side of the car you choose will determine where you place the lap counter receiver at the side of the track.

Mount the LED onto the end of a small length of aerial tube and fix into the cars aerial mount with the LED pointing out of the side of the car.

When mounting the IR transponder, the blue IR LED must be in a fixed position with the tip pointing out of the car to the side of the track where the receiver box will be positioned. The LED must be pointing out of a clear window or out of a hole in the shell. Failure to fix the LED correctly could lead to missed laps.

## Examples of mounting the IR LED



**Warning!** Do not bend the wires directly at the base of the LED as they could snap!

**Positioning the Receiver Box:** The Bluetooth receiver box uses a low power Bluetooth device that must be positioned within 10m of your Android phone, iPhone, iPad or iPod.

Position the box approx. 100mm above the edge of the track so the infrared signal has a clear line of site to the infrared receiver on the side of the box. Push in the large black on/off switch so the red light comes on and the lap counter is now ready for you to connect to.

Launch the application on your device and connect to the box using the Auto button. Make sure you have entered your serial number into the settings window.

When connected, the app will automatically start when your car first passes the receiver box. When you pass for the first time the app will tell you the lap counter and clock has started. You can use the speakers of your device or headphones to listen to your lap times live.

The lap counter software will continue until the designated race time has passed and will stop automatically when you pass on the next lap.

When you have finished your run you can save your lap times for future reference. **WARNING!** Do not exit the lap timer before you have saved your lap times, or you will lose the data.

## Troubleshooting

### Can't connect to the receiver box?

- Make sure you have entered the correct serial code in the settings window of the app. The serial code is found on the base of your device.
- Make sure you have installed 4 x AAA batteries.
- Make sure the power is on with the Red LED lit on the top of box.
- Make sure you have Bluetooth activated and turned on in your device.
- Turn Bluetooth off and on again and try to reconnect
- In Android make sure your device can be seen in the Bluetooth settings.
- Restart the application.
- Make sure the receiver box is not positioned greater than 10m.

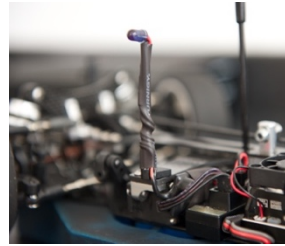
### The receiver box is not detecting laps?

- Make sure the box is at the same height as the LED in the car.
- Make sure the IR LED in the car is pointing out of the window and not obstructed in any way.
- Make sure the Transponder is powered and plugged in correctly.
- Check the transponder plug is a firm tight fit when plugged in. The pins can be crimped slightly to ensure a tight connection is formed.
- The box might be detecting laps but not connected to your device.
- Make sure the receiver box is not positioned greater than 10m.

# QUICK START GUIDE

**1** Open the base of the receiver box and install 4 x AAA batteries.

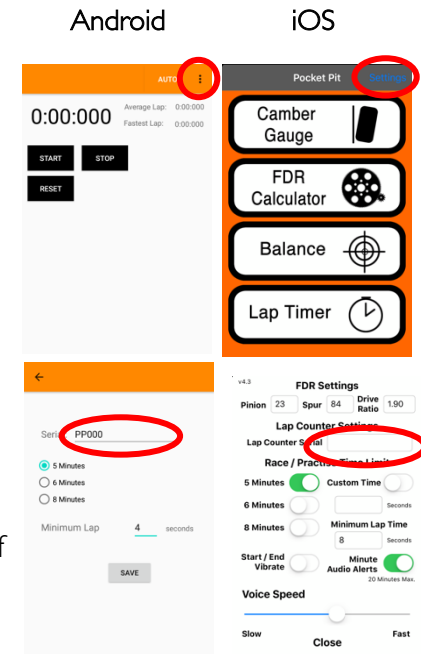
**2** Install IR Emitter into car with tip of the blue LED facing out the side window of the car.



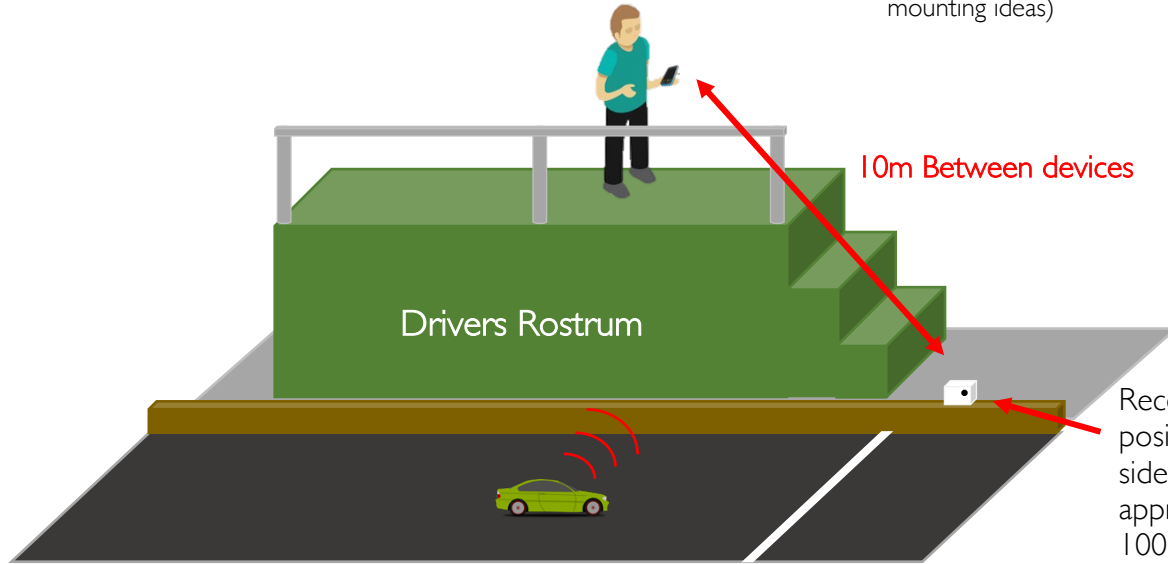
(see reverse for other mounting ideas)



**3** Download and install the Pocket Pit app from the Apple App Store or Google Play.



**4** Open the app and tap on the settings button. Enter the serial number found on the bottom of your device.



Receiver box positioned at the side of the track approximately 100mm from the ground

**5** When you are ready to race, position the receiver box at the side of the track and turn it on by pressing the black switch. Keep the distance between your device and the receiver box below 10m.

**8** When your car passes the box for the first time the timer will begin automatically and tell you your lap time each time you pass the receiver box.

**iOS:** The app can give you minute by minute updates and will tell you when run time is complete.

**Android:** The app will tell you when your run has started, when you have 30 secs remaining and when your run is complete.

**7** **iOS:** Tap connect and wait for your connection to be established.

**Android:** The app will now search and connect to your device.

When connected the connection window will close automatically and you are ready to start your run.

**6** From the home screen tap the lap timer button and then tap Auto in the top right-hand corner.

