

Contents

- 1 Bluetooth GPS receiver
- 1 Magnet Mount External GPS Antenna with 3m Cable
- **No USB cable is included.**
Please prepare a USB-A to USB-C cable.
A USB-C to USB-C cable with USB PD does not work.

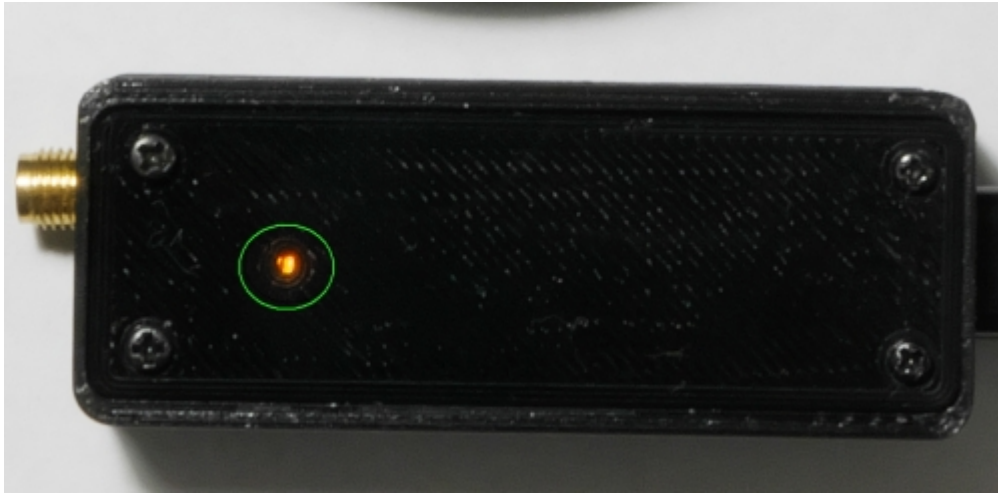
Features

- Bluetooth GPS receiver with up to 10Hz update rate.
(Update rate depends on GPS reception quality.)
- The external GPS antenna provides higher accuracy compared to built-in antenna receivers.
- Achieves a reasonable price utilising 3D printing technology.
- Suitable for any Android motorsport lap timer app that supports external Bluetooth GPS receivers.
(Not compatible with Apple iPhone due to restrictions on external GPS receiver usage.)
- Tested Android apps: "RaceChrono™", "TrackAddict™" and "GPSLaps™"

Connect the USB cable. Verify that the LED is ON as indicated below. Wait until the LED starts flashing every 1 second. This indicates that the GPS receiver has identified the current location and is ready for use. This may take a few minutes the first time, but subsequent times will be much quicker. Follow the instructions below to set up the Android app. Power OFF then ON if there is a significant current position error.

Receiver Setup

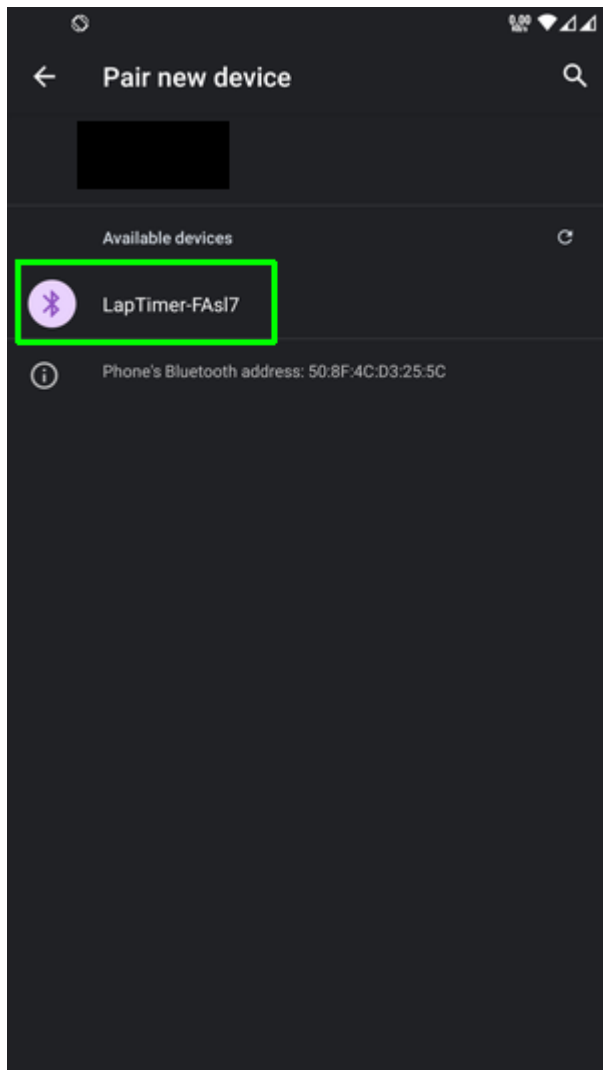
- Place the GPS antenna on the car's roof.
- Attach the antenna cable to the receiver.
- Plug the USB cable. Confirm the LED is ON as below.



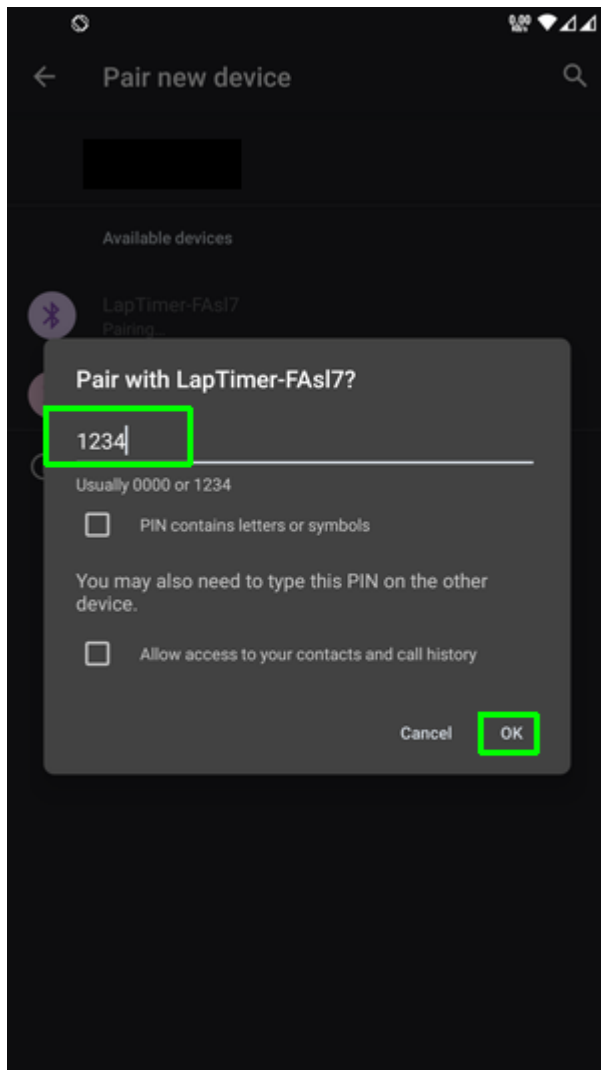
- Wait until the LED starts flashing every 1 sec. That means the GPS receiver recognised current location and is ready for use.
This takes few minutes first time but it gets flashing much quicker from next time.
- Follow the instruction below to set up Android app
- **Power OFF then ON when there is huge current position error.**

Android Setup

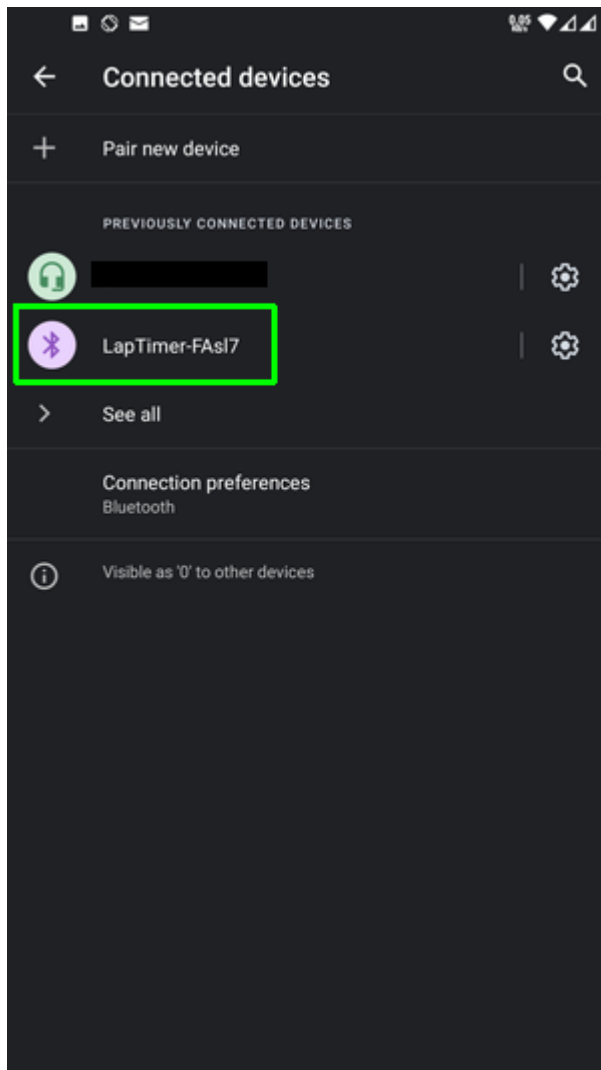
- Open Bluetooth setting on your phone.
- Search Bluetooth device, wait until "LapTimer-xxxxx(5 random alphanumeric)" appears on "Available devices".



- Tap "LapTimer-xxxxx" and enter password "1234".

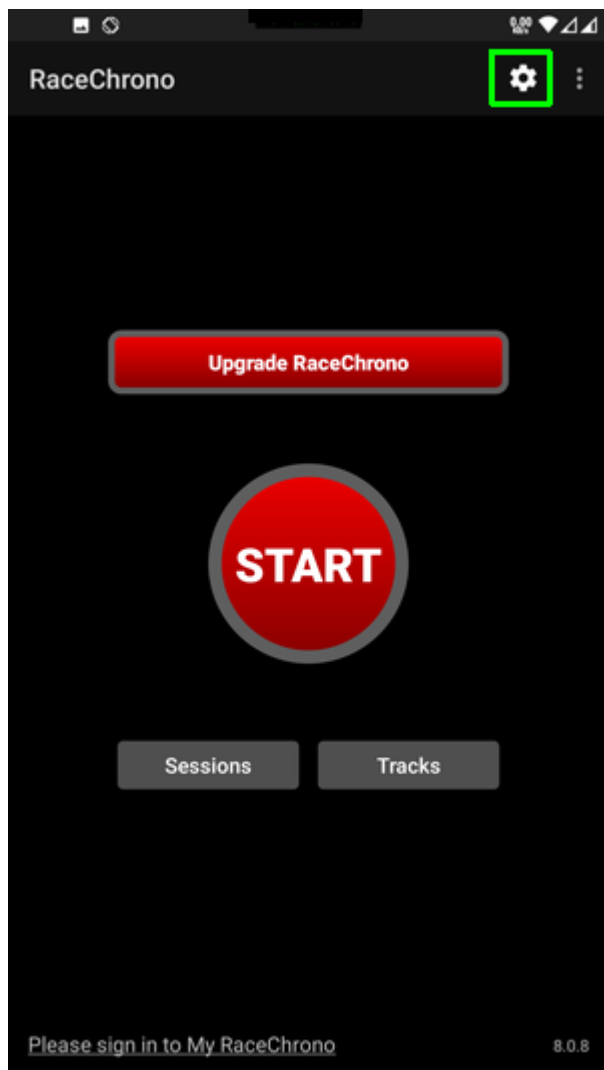


- Confirm "LapTimer-xxxxx" is paired.

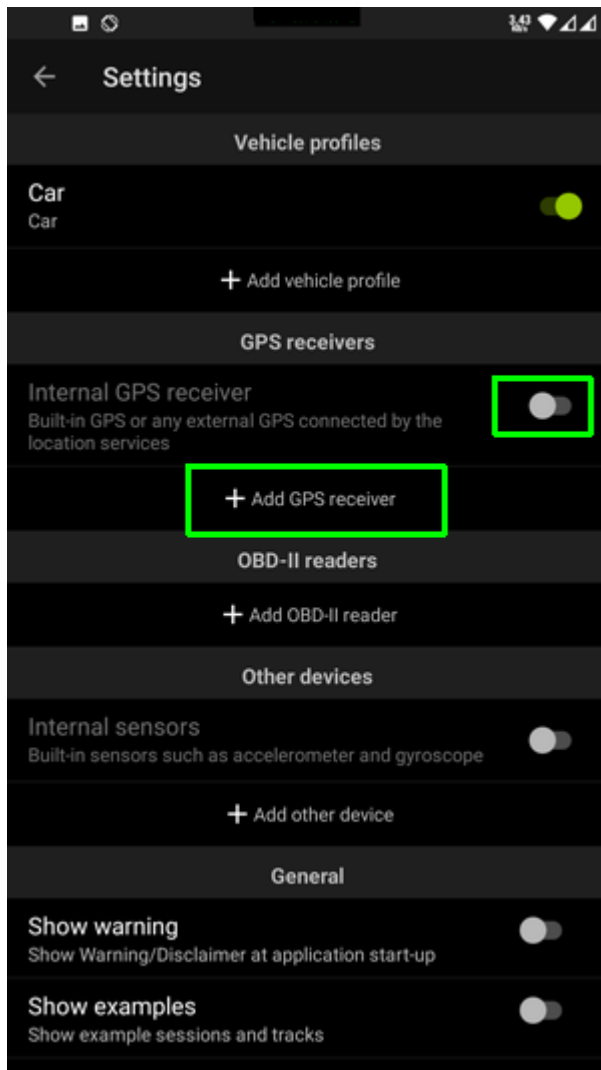


RaceChrono™ Setup

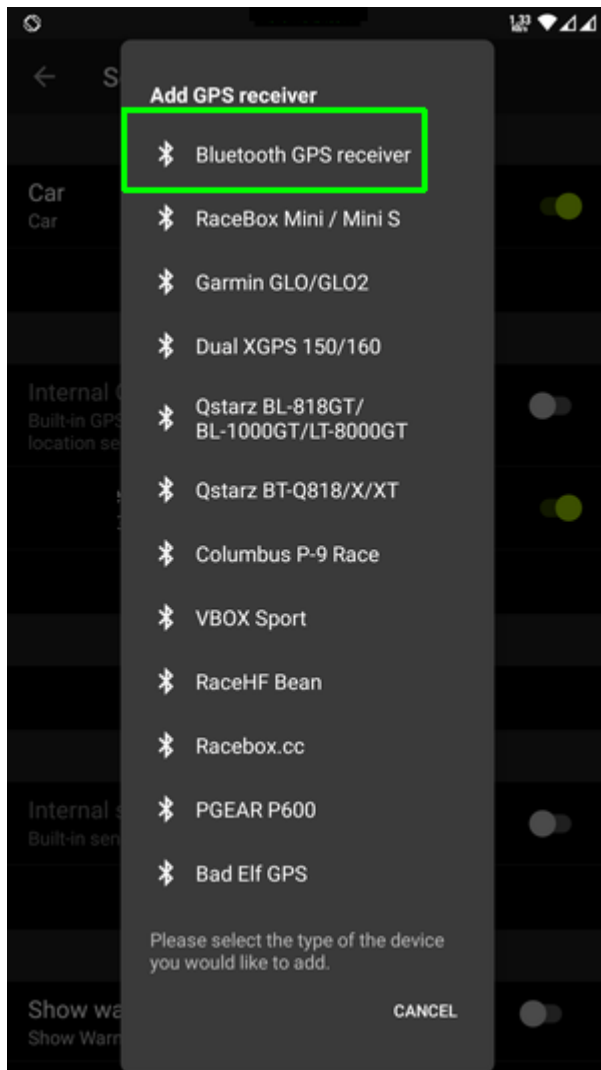
- Open settings.



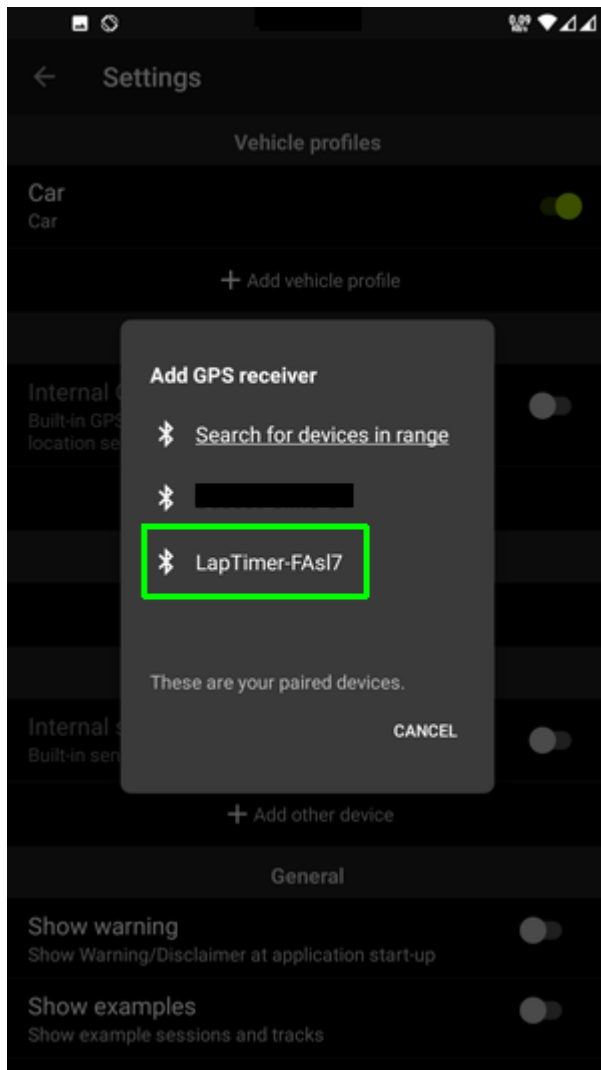
- Turn "Internal GPS receiver" OFF and tap "Add GPS receiver".



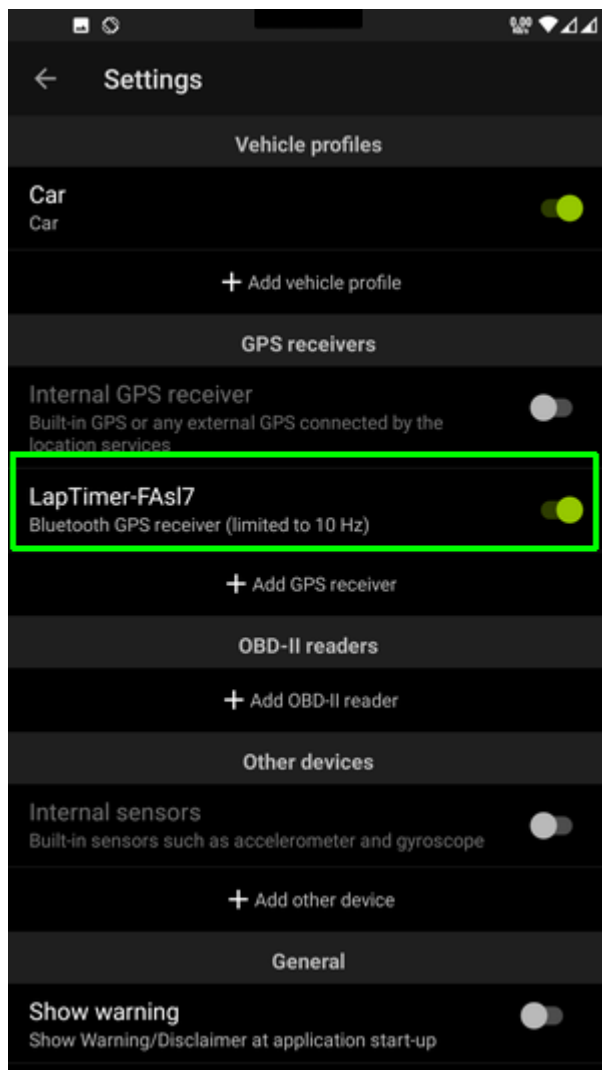
- Tap "Bluetooth GPS receiver".



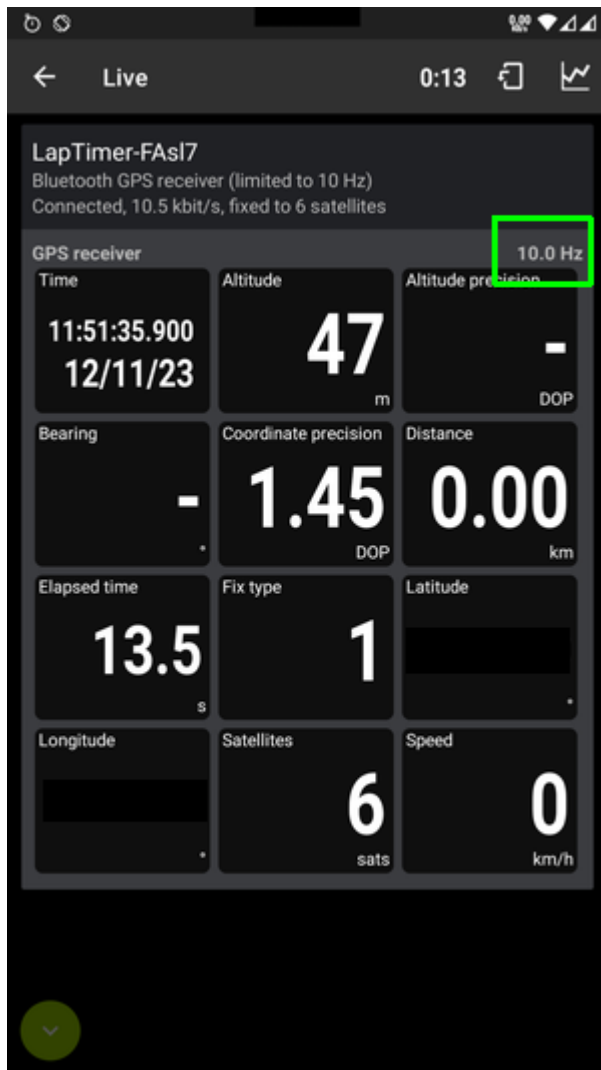
- Tap "LapTimer-xxxxx".



- Make sure "LapTimer-xxxxx" is turned ON.



- Check the connection status.



TrackAddict™ Setup

- Open Settings.



- Tap "Bluetooth" and then the following box.

4:29

100%

SETUP

OPTIONS

Alerts:

SilentNormalUrgent

Tap 'Setup Dashboard Display' to set alert levels

Pit Speed:

OFFSilentNormalUrgent

40 Km/h

For Circuits with Pit Entry & Exit points set

Lap:

SilentChimeVoice

INPUT: POSITION & SPEED

GPS:

InternalBluetoothBLE

Auto Start:

GPS OnlyGPS + Accel

Select trigger type for auto-start in Segment and Drag modes. GPS + Accelerometer is the most precise, but could prematurely trigger from heavy vibration.

INPUT: VEHICLE SENSORS

OBD:

OFFUSBWiFiBluetoothBLE

Setup HP Tuners MPVI

An OBD-2 add-on device can be used to log or view engine RPM, throttle, and certain sensors. Available options and performance vary by vehicle. Please see the User Guide for compatible OBD devices.

Vehicle Survey:

DisabledEnabled

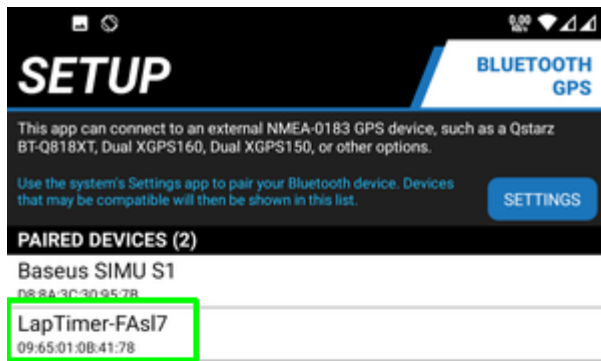
INPUT: ADDITIONAL SENSORS

NBP:

OFFUSBWiFiBluetooth

Numeric Broadcast Protocol (NBP) is a simple universal way for sensor devices to broadcast data to apps. You can connect this app to a compatible device to view and log its data. Please see the User Guide for more information.

- Tap "LapTimer-xxxxx".



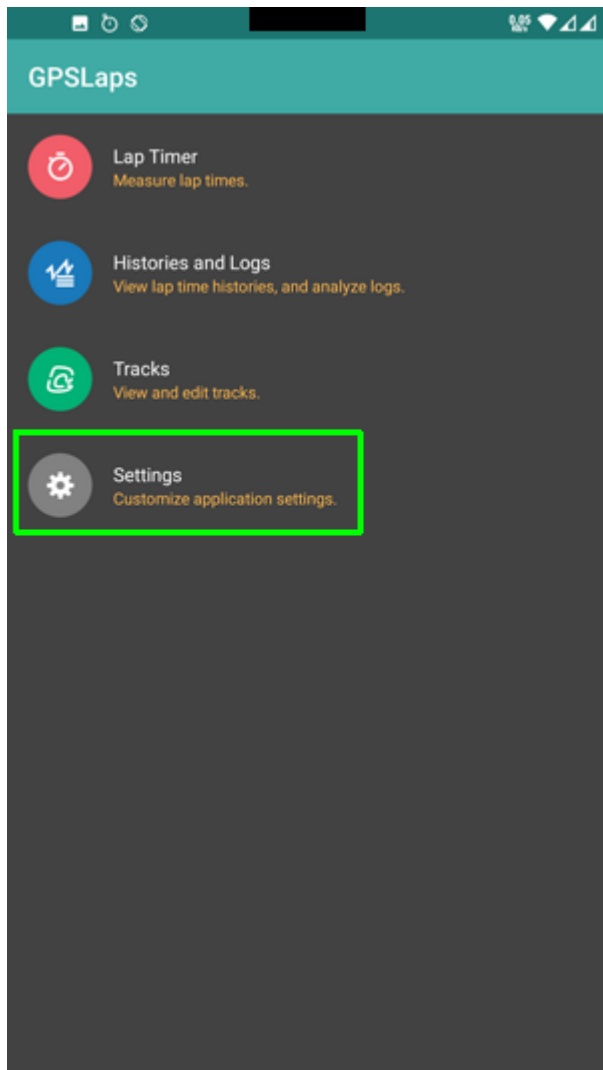
- Check the connection status.



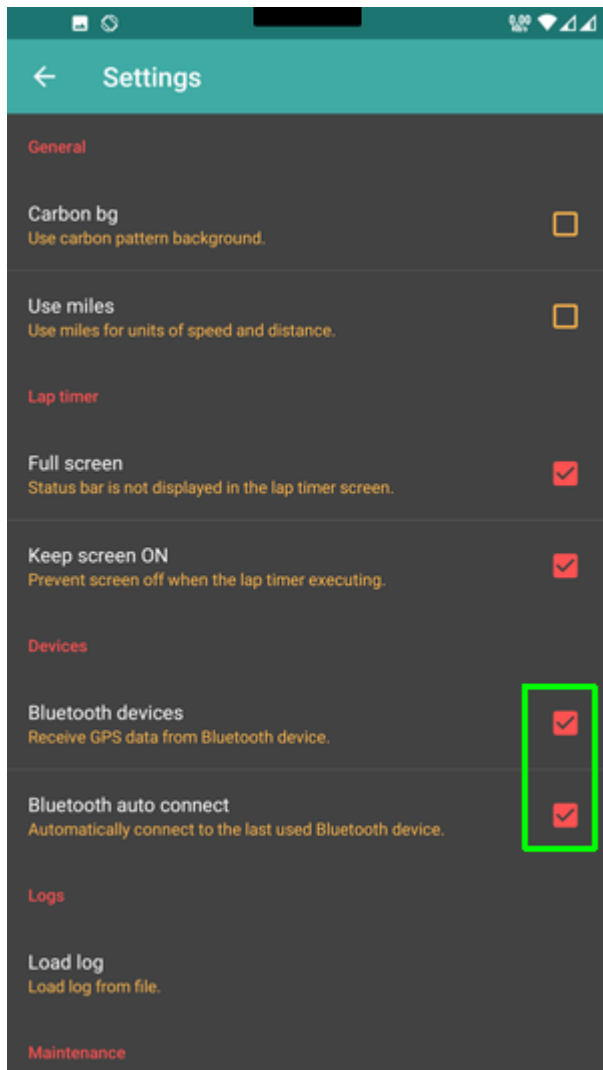
- **TrackAddict™ tends to use your phone's internal GPS before finding the Bluetooth GPS receiver so always need to reconfigure the proper one. Otherwise you can't get 10Hz update rate.**

GPSLaps™ Setup

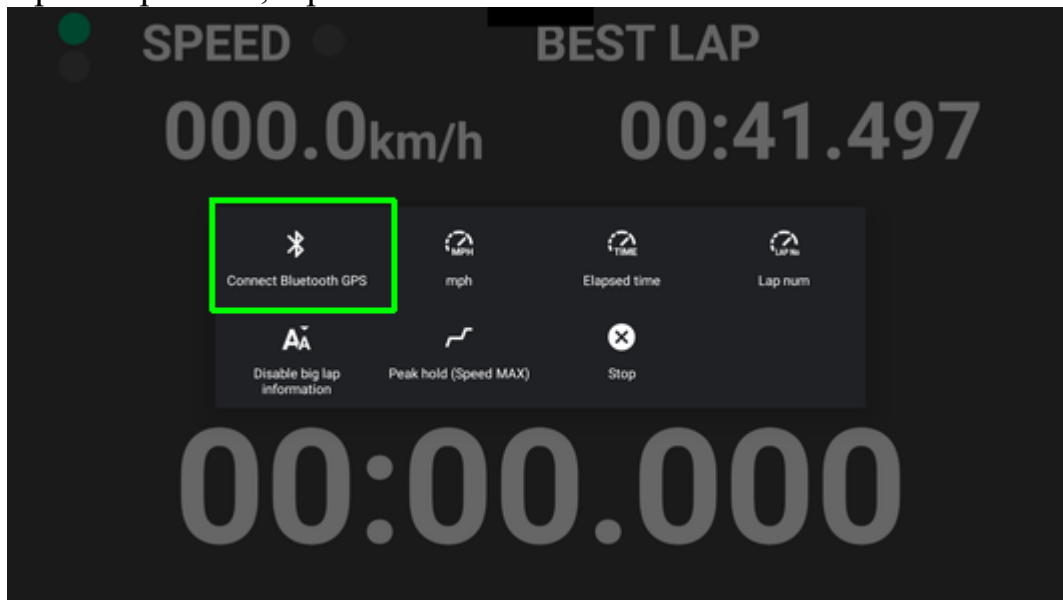
- Open Settings.



- Check "Bluetooth devices" and "Bluetooth auto connect".



- Open Lap Timer, tap the screen and "Connect Bluetooth GPS".



- Tap "LapTimer-xxxxx".

