# POWER FLEET®
People Powered AIoT

Version 1.0
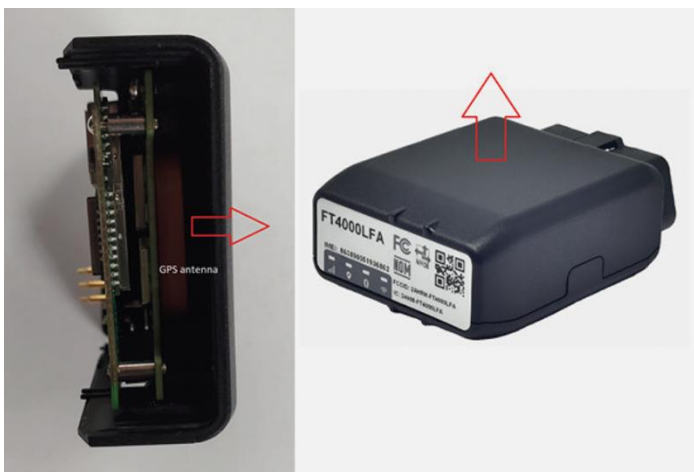
# FTXW
Installation Guide

# Table of Contents

# 1    Locating your Diagnostic port
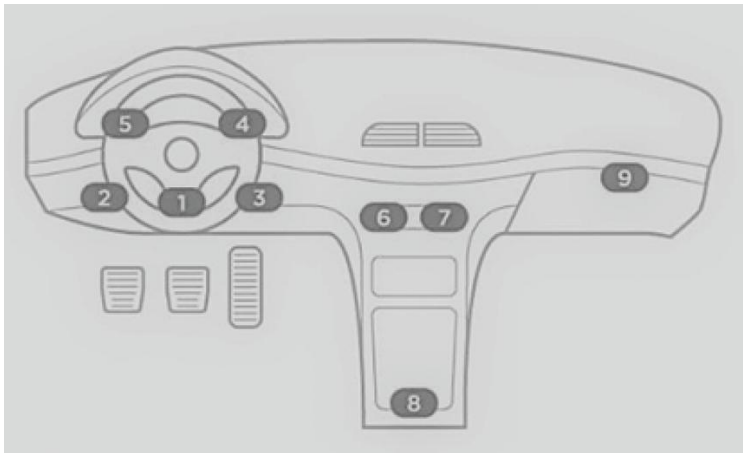


Your Diagnostic port can be located in various locations in and around the driver side. The most common location are found in points 1,2,3.

Other mount locations that are used are points 5,7,8 & 9 just behind the center console.

## 1.1    GPS Antenna



The FTXW has a High-performance GPS antenna integrated.

The recommended Install is indicated by the arrow. The arrow should face the Sky for best performance.

## 1.2    Best Practices

- Always connect the FTXW while the Ignition is turned OFF to ensure optimal functionality of the modem
- Leave FTXW plugged in with Ignition turned OFF for a minimum of 2 minutes, this gives the modem some time to properly connect to the computer of the vehicle
- For ECM and Bluetooth, leave the device connected with Ignition turned ON for at least 5 minutes to allow for device to pick up its settings from cloud and make a successful connection to ECM

- Do not mount the device against extremely hot areas under the dash
- Ensure the diagnostic port of the vehicle is not corroted or damaged. Look out for frayed wires behind the diagnostic port

## 2   LED Light Indicator

|  | GPS | Cellular | Bluetooth | Wi-Fi |
|---|---|---|---|---|
| **LED Color** | Green | Amber | Blue | Purple |
| **Off** | GPS off | Modem off | Bluetooth off | Wi-Fi off |
| **On** | GPS Fix | Modem on, and connected to network | Bluetooth on | Wi-Fi on |
| **Medium Flashing** | Searching for satellites | Searching for cell network | N/A | N/A |
| **Fast Flashing** | Receiving GPS location | Transferring   cellular data | N/A | N/A |

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| LED | Color | Flash (Slow) Count | Error |
|------|-------|------|-------|
| Cellular | Amber | 1 | SIM Error |
| | | 2 | No network |
| | | 3 | Unable to register with network |
| | | 4 | Battery too low to transmit |
| | | 5 | Service activation error |
| | | 5 | Service sync failure |
| GPS | Green | 5 | GPS No Fix |

## Sympton

LED slow flashes in a repeated pattern

## Action

The device is in error state: check the error codes above for corresponding actions
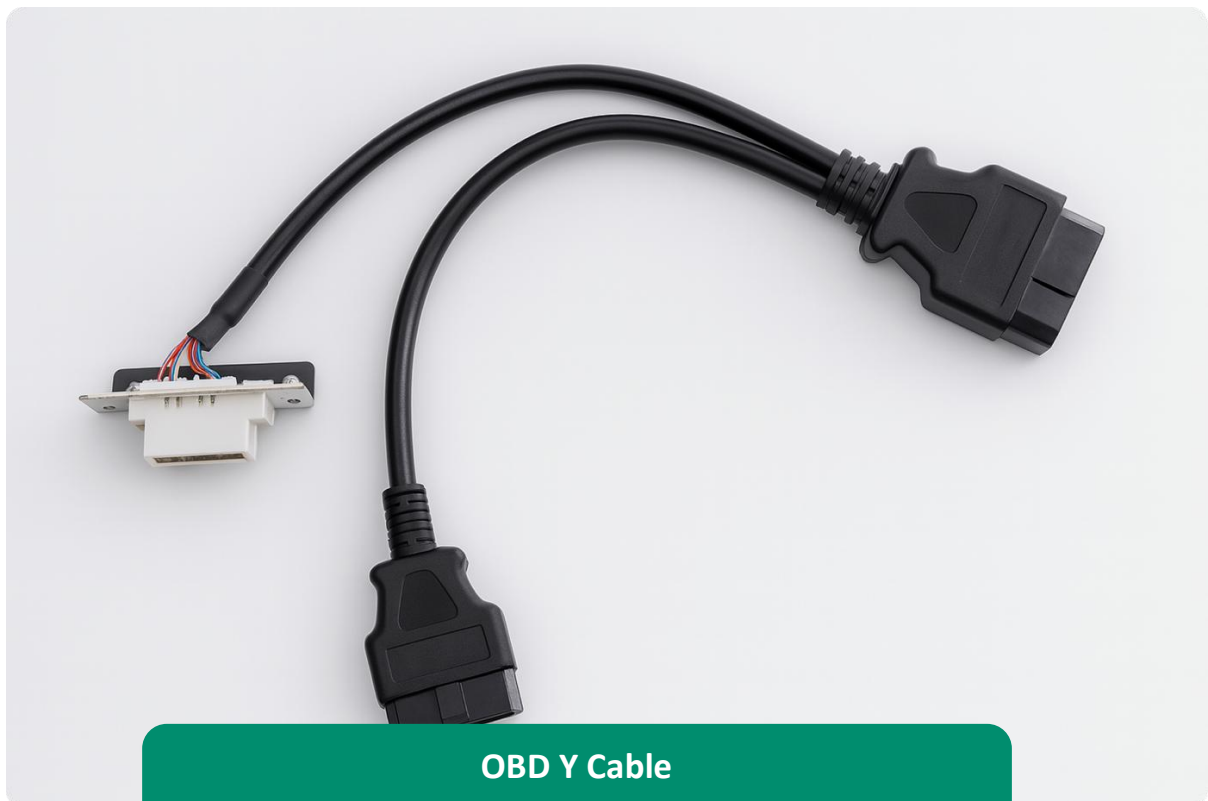
## 3   Installation



Connect the device to your OBD Y cable, this assumes the OBD Y male end is connected to the Diagnostic port of the vehicle. Look for a Red LED as an  indicator of power.

**2**
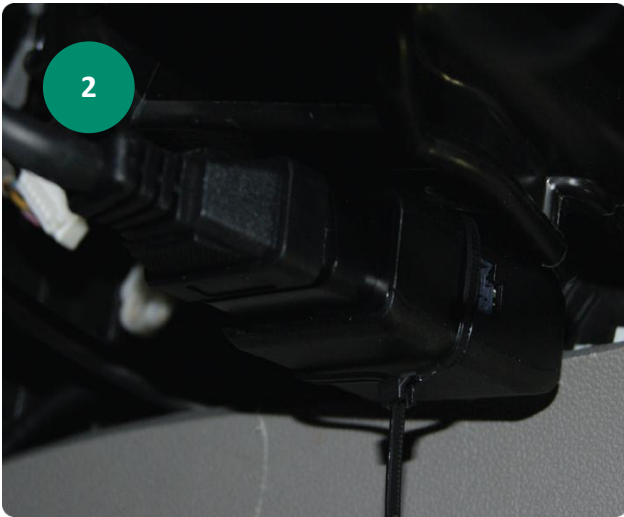
Secure the device using Zip ties preferably up underneath the dash. Ensure the device is not obstructed by any metal.

Ensure device is secure so that there is little to no wiggle room.
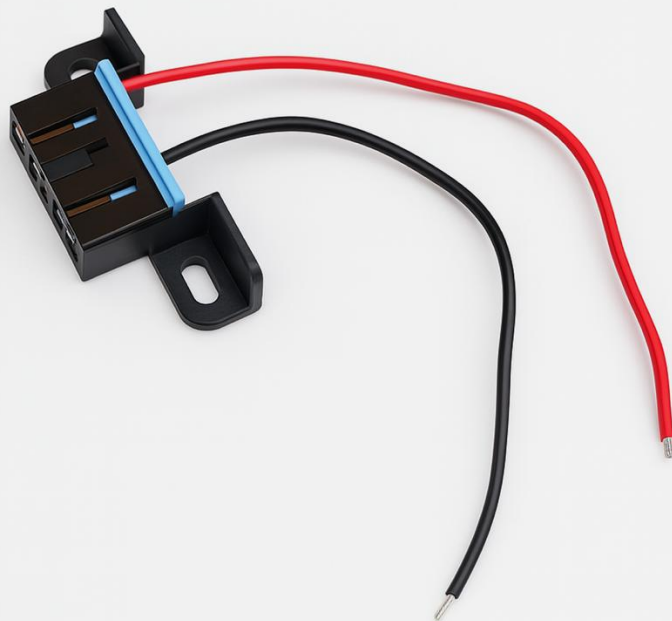
## 4   Cables



**OBD Y Cable**

The OBD Y cable is used for covert installations.

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## 9PIN Y OBD

9 PIN Y cable is used to complete covert installs.



## OBD Hardwire Adapter

OBD Hardwire adapter is used to hardwire your device using a two wire install constant power (red) and ground (black).

## 6 to 9 PIN Adapter

The 6 to 9 pin adapter is used to complete the installation of older type heavy duty vehicles that have 6 PIN Diagnostic ports.



## TTL Cable

The TTL cable is used to install inputs such as PTO's, temperature   sensors etc. The molex end connects to the side of your FTXW.

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## 4.1 6 to 9 PIN Adapter

| Pin at Board Side | Pin Definition | Color |
|:---:|:---:|:---:|
| 1 | Ground | Black |
| 2 | Output 1 (Ground to close) (-) | Orange |
| 3 | BMCU_UART4_RX(TTL 1.8v) | Green |
| 4 | BMCU_UART4_TX(TTL 1.8v) | White |
| 5 | BDCDC 5V output | Pink |
| 6 | 1-Wire_line | Yellow/Red |
| 7 | Input 1 (Ground to close (-) | Grey |
| 8 | Output 2 (Ground to Close (-) | White/Blue |