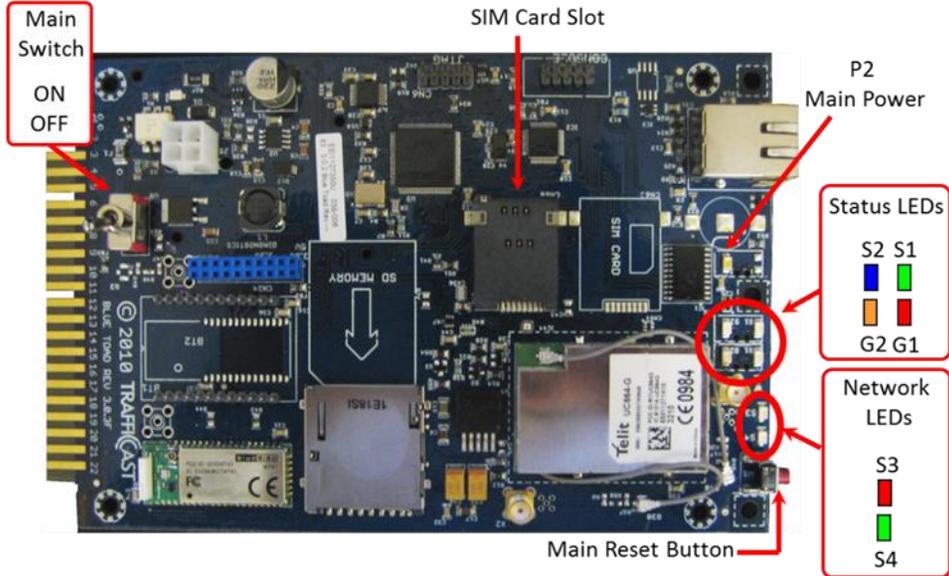


Step 7 - Turn on BlueTOAD

To turn on the BlueTOAD™ - Flip the main on-off switch to the on position



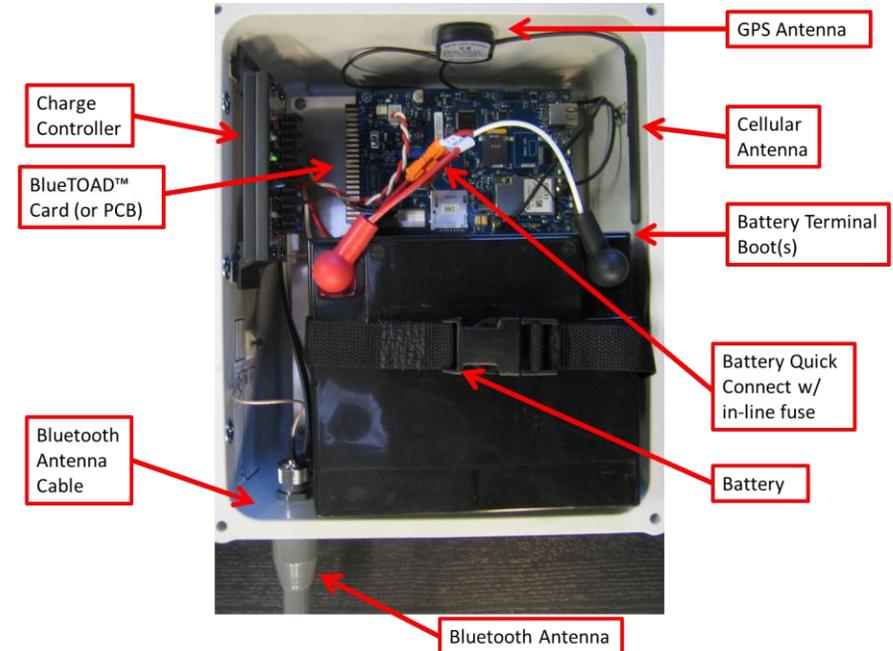
LED	Color	@ Initial Start-up	@ Normal State May take up to 5 mins.
P2 - Main Power	White	Solid	Blink - 1x per 3 sec
S1- Boot	Green	Blink - 4x per sec	Blink - 1x per 3 sec
S2-Bluetooth	Blue	Off	Blink - 3x per 3 sec
G1- Cell Modem	Red	Solid when modem is on	
G2- Network Connect	Amber	Off	Blink - 1x per 3 sec
S3-GPS	Red	Off	Blink - 3x per 3 sec if Satellites > 3
S4- Cellular Signal Strength	Green	Off	Solid SS > -60dBm

Cellular BlueTOAD™

Solar Power
Install Manual
 Customer Support
 847.902.4407



BlueTOAD™ Component Description

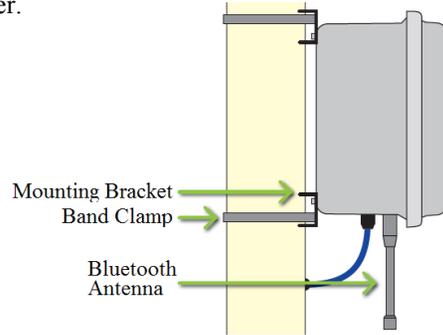
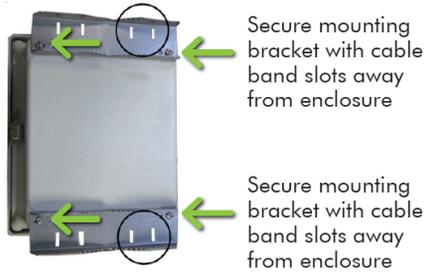


General Information

Category	Recommended Requirements
Mounting structure	Lamp or signal poles (BlueTOAD ~ 40 lbs)
Height	10' to 14' ground clearance to clear immediate obstacles
Antenna Clearance	Bluetooth antenna is unobstructed and has clear line of sight to the target road segment
Alignment	See Mounting & Alignment section
Solar Panel	Southern exposure - Please consult http://solarelectricityhandbook.com/solar-angle-calculator.html for the optimum angle in your location.

Step 1 - BlueTOAD™ Mounting & Alignment

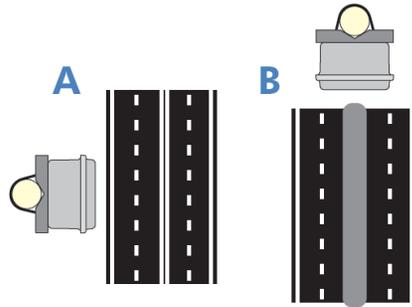
The BlueTOAD™ device comes with 2 mounting brackets and 2 band clamps able to fasten to support structures up to 14" in diameter.



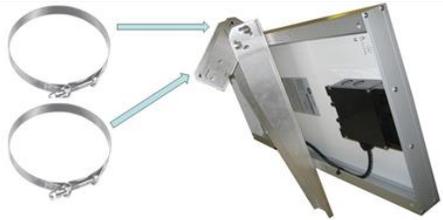
Enclosure Alignment

A: Roadside – Front cover is mounted parallel to road

B: Median – Front cover is mounted perpendicular to road

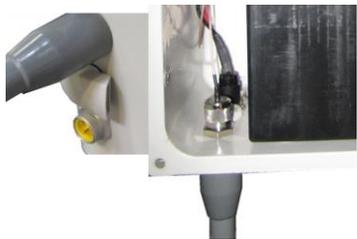


Step 2 - Ethernet Cable Installation



- Attach mounting bracket to solar panel
- Set panel angle as solar calculator recommends based upon install location
- Mount Solar Panel above BlueTOAD device
- Mount such that panel faces true south
- Use drill with 5/16" nut driver bit to tighten bands

Step 3 – Bluetooth Antenna Connection



- Attach Bluetooth Antenna:
[Take extra caution not to detach the cable from the connector on the BlueTOAD™ PCB]
- Secure antenna with nut on inside of enclosure.
- Connect Bluetooth cable to antenna.
- Hand-tighten (with most connectors and antennae, hand-tension is preferable).

Step 4 – Connect Solar Cable



- Insert solar cable plug with the mated connector on the enclosure.
- Plug will only insert in one position.
- Hand tighten
- Check to see if the “charge control light” on the charge controller is lit, ensuring proper connection

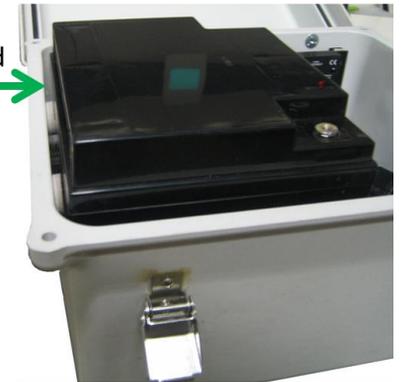
Step 5 – Install Battery

The battery comes with factory installed quick connects on the power terminals. The Battery should be installed with the terminals facing out of the enclosure (see figure below).

[The battery should be disconnected and removed during transport]



Battery will protrude beyond the enclosure →



Step 6 – Connect battery

Connecting the battery to the charge controller is the final step in the installation process. The power harness from the charge controller has the opposite keyed and mated connector to that from the battery terminal. Insert the 2 connectors together.

