



PUSH BUTTON PEDESTRIAN CROSSWALK SYSTEM OPERATING MANUAL

TABLE OF CONTENTS

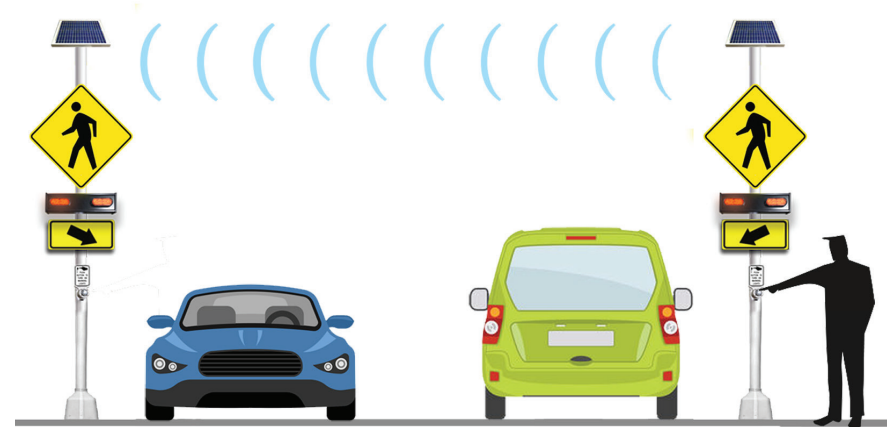
Introduction	2
Basic Operation. What is the CrossTalk	2
Description of CrossTalk Cross Walk Controls.....	3
Mounting	
Round Pole	4
Square Post	5
U-Channel	6
Troubleshooting	7
Fuse Location and Replacement	8

INTRODUCTION

Rectangular Rapid Flash Beacon (RRFB) is a device using LED flashing beacons in combination with pedestrian warning signs, to provide a high-visibility strobe-like warning to drivers when pedestrians use a crosswalk. In general, RRFBs are a visual cue that pedestrians may begin crossing the roadway at any time. They are always accompanied by crosswalk markings and signs. Crosswalk RRFBs operate by wireless push button activation. When a pedestrian pushes the button to cross the street, the sign is activated and begins to flash to warn drivers of the crossing pedestrians. The flashing pattern can be activated with pushbuttons.

BASIC OPERATION

CrossTalk for pedestrian street crossings where people need to cross safely. Pedestrians simply press the button to activate the CrossTalk device located inside the control cabinet. The CrossTalk wirelessly activates the sign alert LEDs on both sides for the programmed amount of time.



WHAT IS THE CROSSTALK

The CrossTalk is an Advanced, Solar-Powered Lighting Controller. CrossTalk controllers are used for a variety of traffic & safety applications including cross-walk / pedestrian systems, speed/radar systems and more. CrossTalk applications can be setup quickly and provide more functionality and flexibility than traditional “wired” systems.



The CrossTalk device is a rugged, integrated unit which provides a built-in solar controller with Maximum Power-Point Tracking (MPPT), battery management with low-voltage disconnect (LVD), short-range wireless (900MHz), multi-function programmable lighting control, support for up to (4) beacons, auto-dimming, and a scheduler all in one compact enclosure.

DESCRIPTION OF CROSSTALK CROSS WALK CONTROLS

Net/Mode Setting
Flash pattern setting
(50/50, 90/10, wig-wag, etc.)

Status Light
The status light
flashes in sequence with
the first output to indicate
the flasher is active and
flashing rate.

Charging Light
Solar controller status
indicator shows when the
battery is being charged:
Green = Charged
Red = Charging

Solar Port
Solar connection port

Battery Light
Battery status light
for safe accurate
connections:
Green = Good
connection
Red = Reverse-polarity

**LED Outputs
1,2,3,4**
Load: 12V LED/DC
flasher outputs/
switches (x4).
Maximum load
50W per output.

**Ethernet
RS-232**
Communication
Port / Laptop
Connection

Switch Attachment
Sensor connection port.
Connect any sensor for use
in conjunction with sign
alerts.
Sensor options:
• Push Button

In 1 / In 2
Digital input range 5-24V DC
for radar, advance warning,
and more

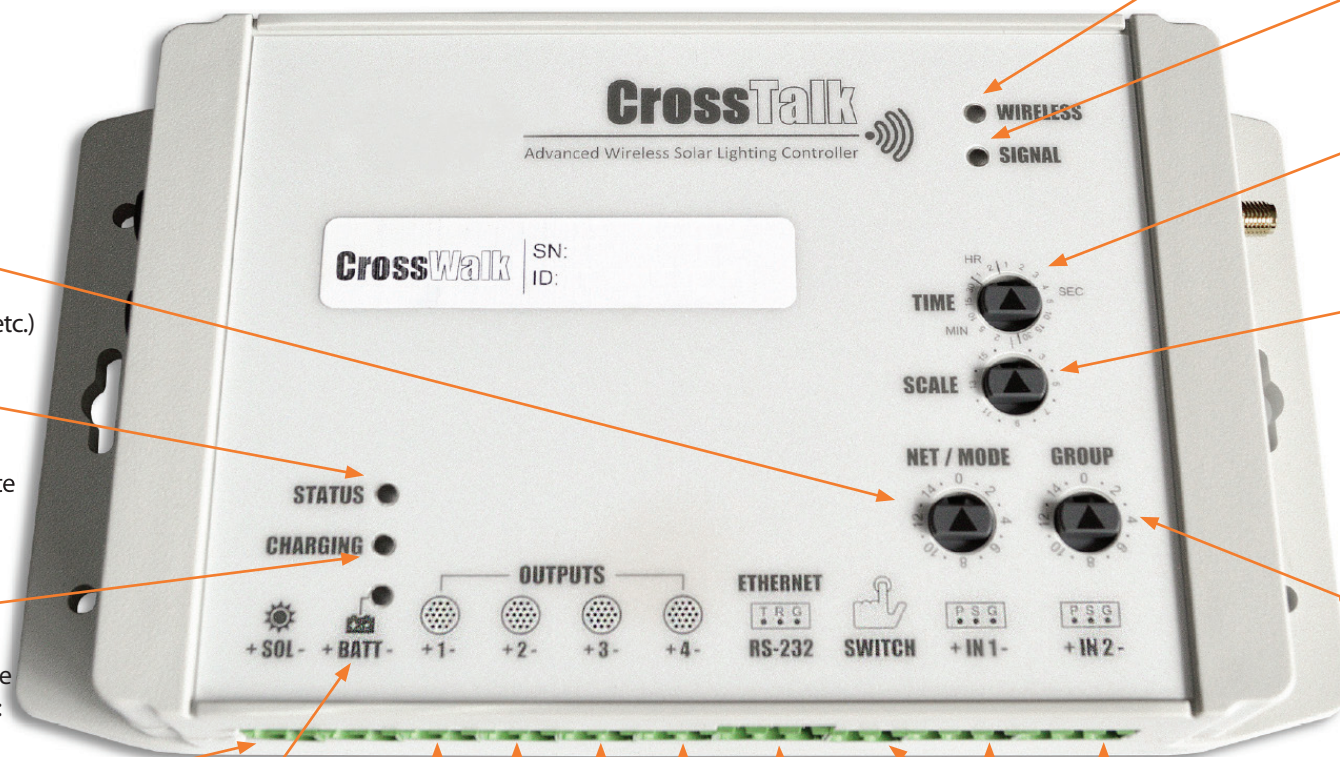
Group Setting
All devices with the
same GROUP setting can
communicate with each
other.

Scale Setting
Used as a multiplier in
combination with the time
setting.
(Example: With
Time set to 10 SEC and Scale
set to 6. The beacon will stay
on for 60 seconds (10 SEC x 6))

Time Setting
Determines the length
of time in either seconds,
minutes or hours

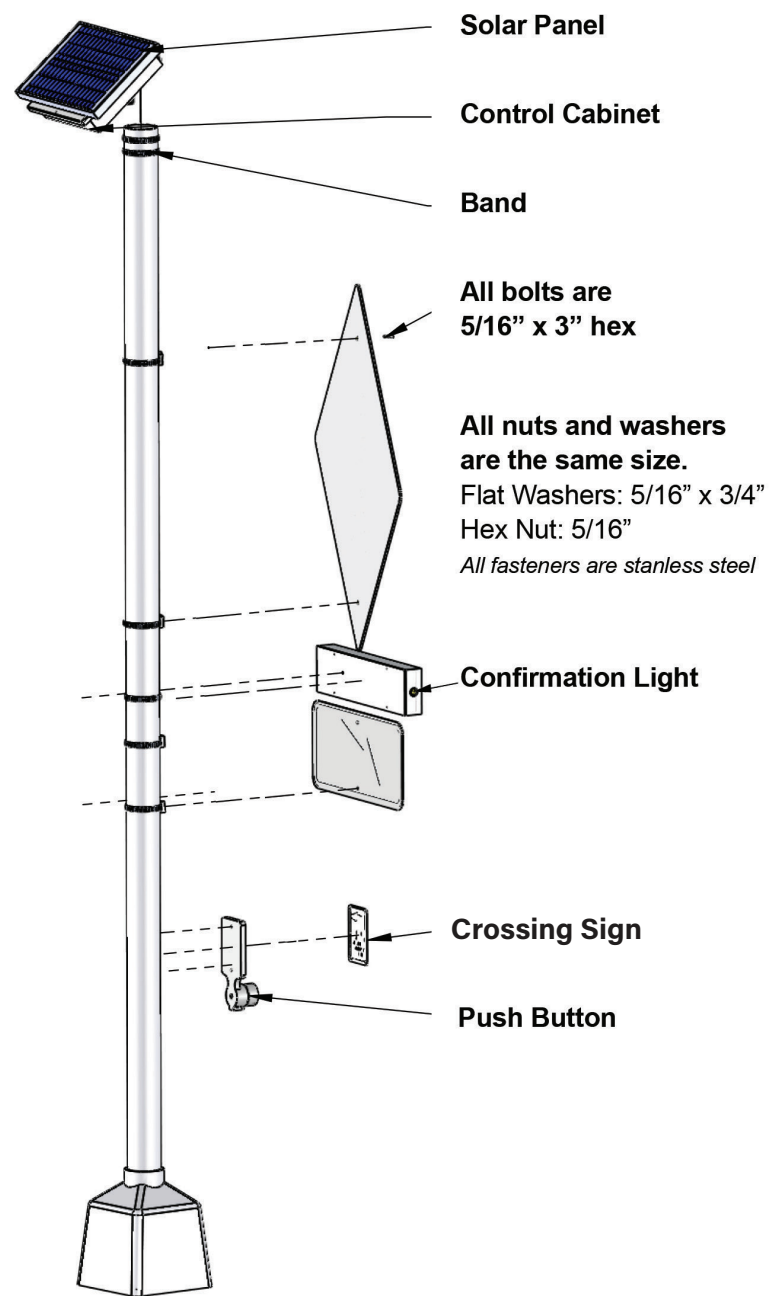
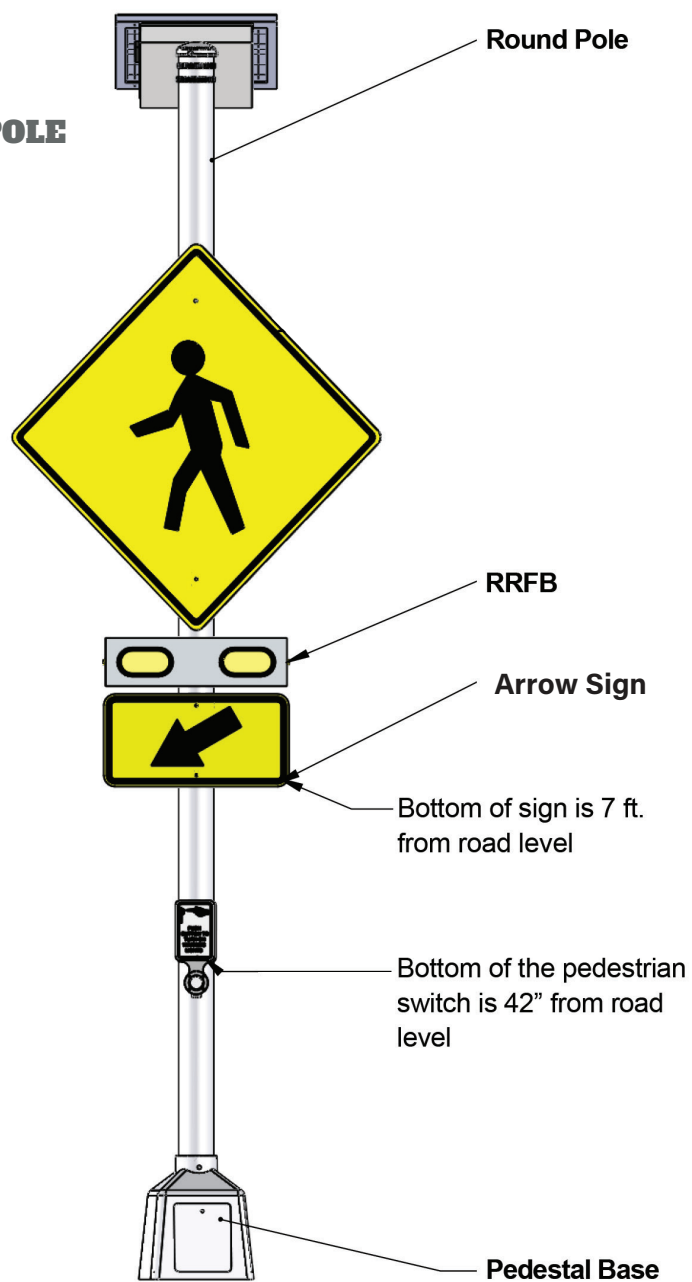
Signal Light
Indicates the strength
of wireless signal during
communication

Wireless Light
When lit, indicates that a
wireless device is connected



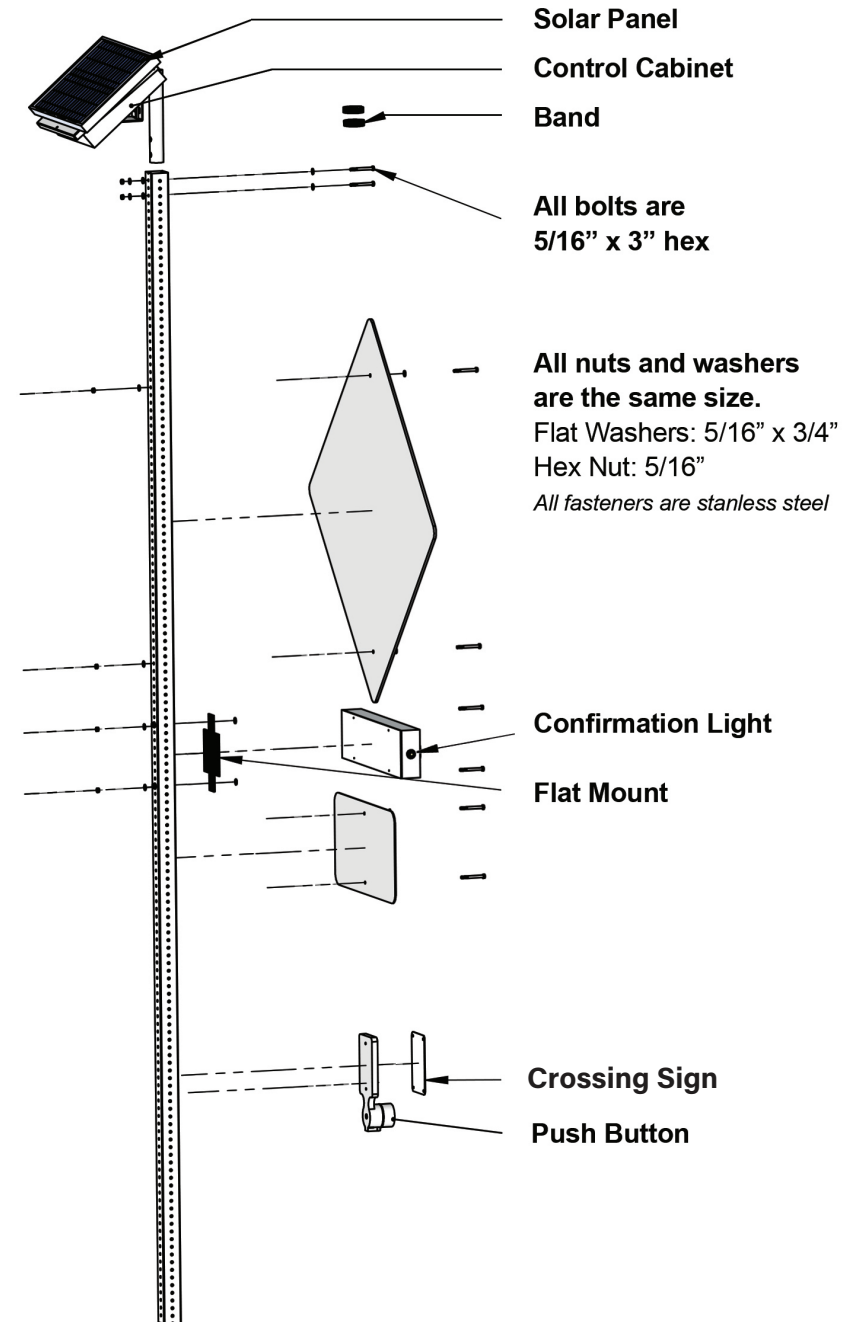
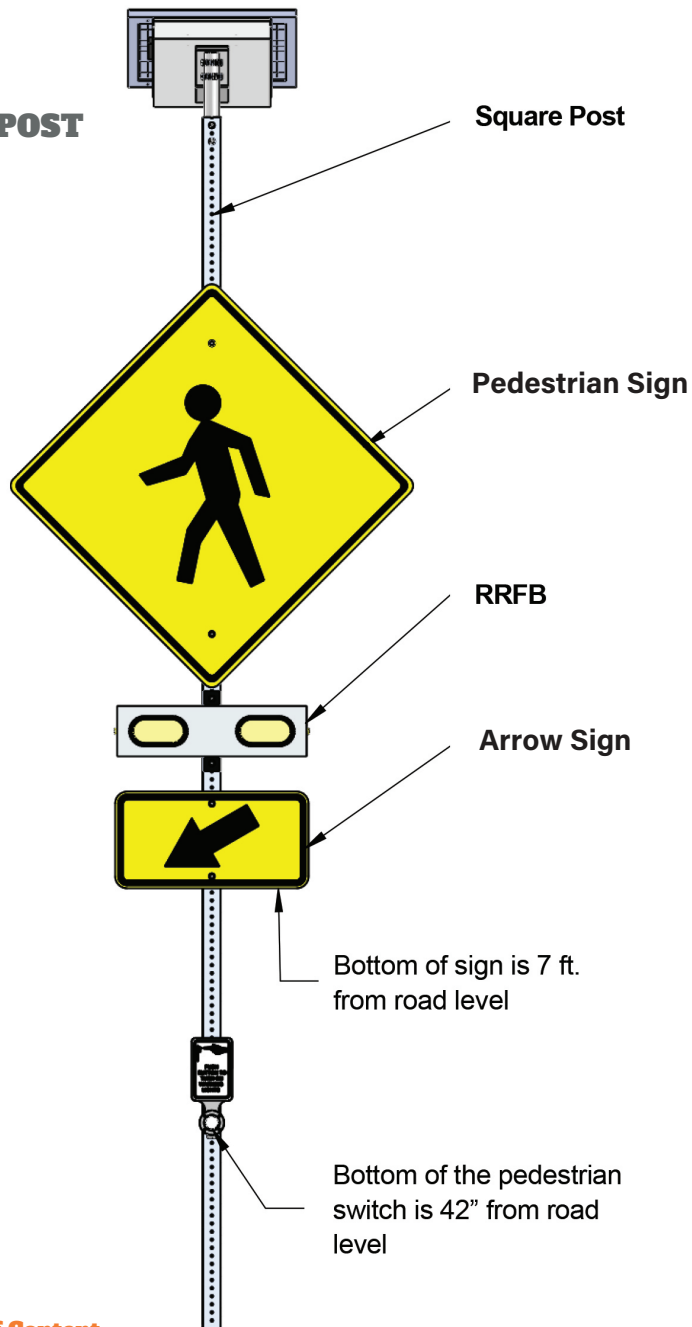
ROUND POLE

MOUNTING



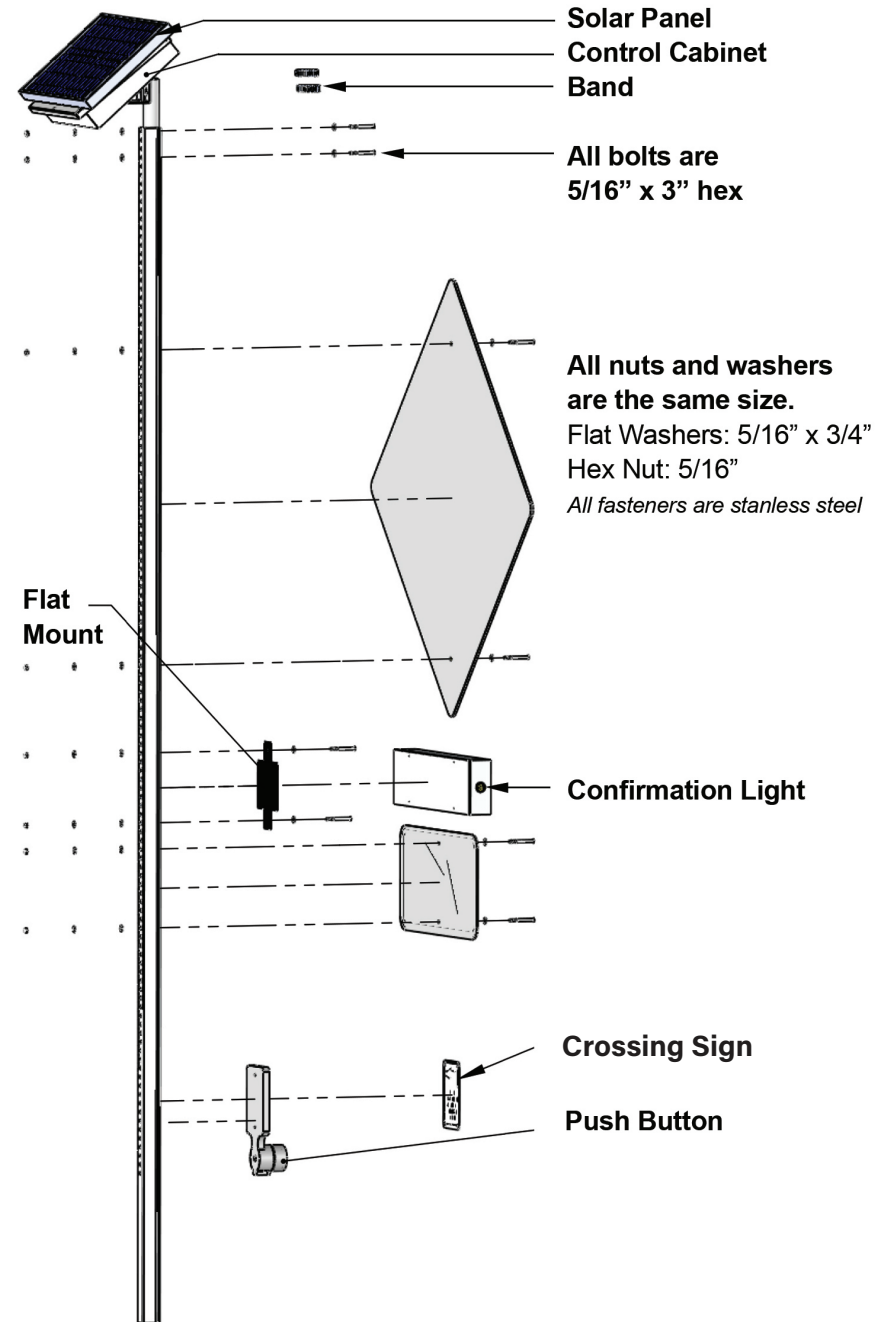
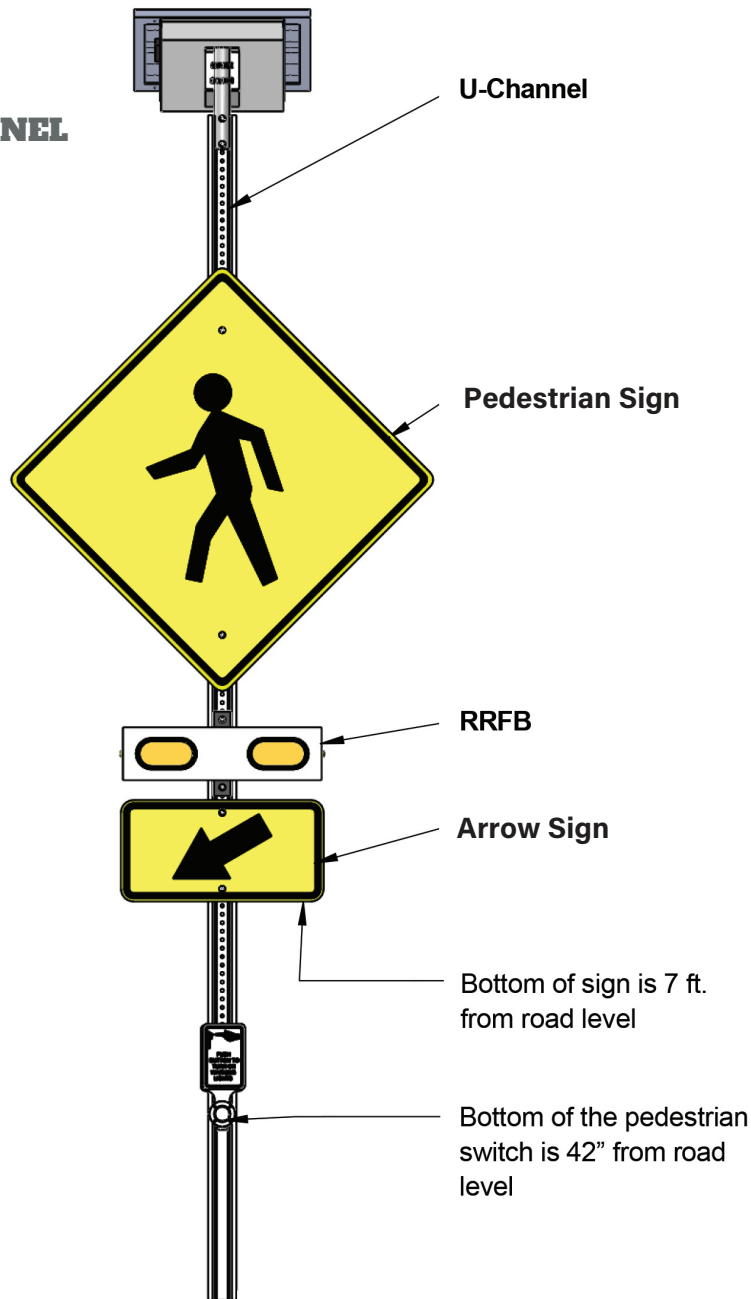
SQUARE POST

MOUNTING




U-CHANNEL

MOUNTING



TROUBLESHOOTING GUIDE

PROBLEM	STEP 1	STEP 2	STEP 3	STEP 4	STEP 5
No Power	<ul style="list-style-type: none"> Check <i>Battery Light</i> on CrossTalk is on 	<p>If light is off:</p> <ul style="list-style-type: none"> Check battery voltage is a minimum of 12V. Check for correct polarity of battery wires to CrossTalk 	<p>If batteries are good:</p> <ul style="list-style-type: none"> Check internal 10 amp blade fuse. (See page 8 for access to fuse.) 	<p>If fuse is good:</p> <ul style="list-style-type: none"> Inspect CrossTalk for signs of electrical damage 	<p>If problem persists:</p> <ul style="list-style-type: none"> Please call us
Not Charging	<ul style="list-style-type: none"> Recharge batteries to test 	<ul style="list-style-type: none"> Check <i>Charging Light</i> is illuminated. <p>Solid or flashing is OK.</p>	<p>If light is off:</p> <ul style="list-style-type: none"> Make sure the solar panel is: <ul style="list-style-type: none"> - clean - facing south - in full sun 	<ul style="list-style-type: none"> While the solar wires are unplugged from CrossTalk, check voltage of solar wires (minimum of 15V on a sunny day.) 	<p>If low or no voltage:</p> <ul style="list-style-type: none"> Follow the wires to the panel and check for damage. Ensure wires are connected with correct polarity
Not Flashing	<ul style="list-style-type: none"> Check batteries for output of 12V 	<ul style="list-style-type: none"> Ensure CrossTalk is set to the proper setting for desired flash pattern 	<ul style="list-style-type: none"> Check <i>Status Light</i> for flashing when push button is activated. 	<ul style="list-style-type: none"> Check inputs for push button Ensure wires are secure in ports 	<ul style="list-style-type: none"> Check LEDs for 12V output when activated

FUSE LOCATION & REPLACEMENT

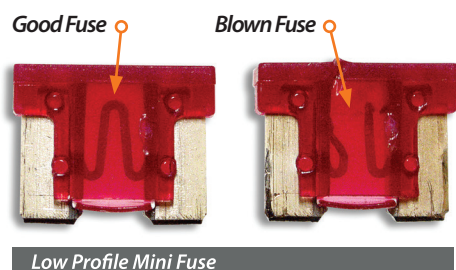
Access the CrossTalk components by removing the CrossTalk from the control box. Turn the CrossTalk onto the face to reveal 4 screws on the backside of the housing on the corners. Loosen each screw until the face cover easily separates from the back of the housing. The screws will remain in the housing.

Carefully lay the cover over as to not to break the connection of the aerial wire.

Locate the 10 amp Low Profile Mini Fuse at the bottom left of the control panel.

Remove the fuse by grasping with fingers and gently rocking the fuse side to side.

Inspect the fuse by looking through the translucent housing at flat wire in the center. If the wire is solid, the fuse is good. In a blown fuse, the wire will be broken.



Replace the blown fuse with a new one by inserting into the port and firmly pressing it into place.

Align the covers and twist the screws until the covers are snug. Remount the CrossTalk to control box.

