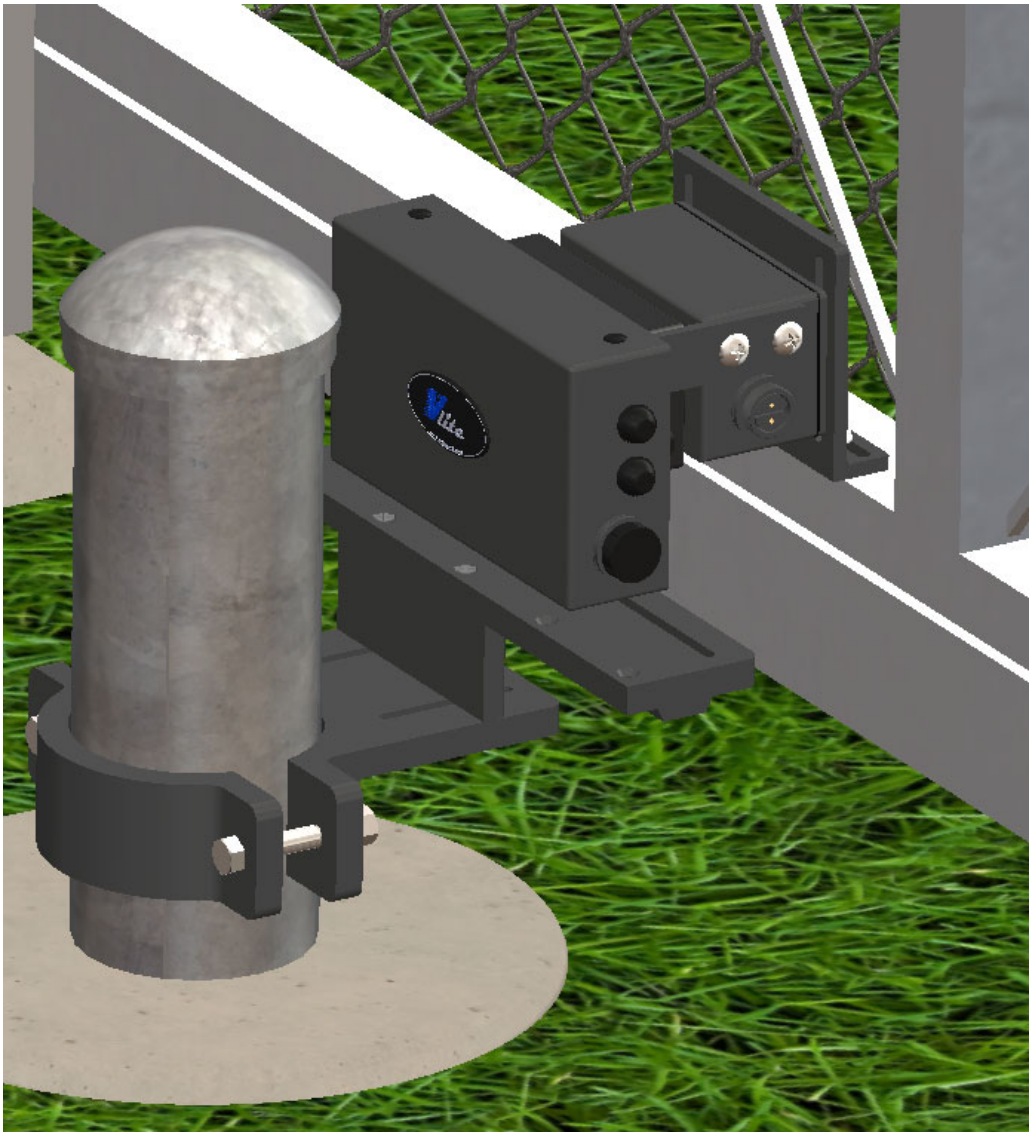
VISUAL WARNING SYSTEM FOR SLIDE GATES



INSTALLATION MANUAL

033126

CONTENTS

Description

The Vlite is a visual warning system designed for sliding gates.

The basic package includes:

- 2 red bi-directional flashing light arrays
- Flasher *(adjustable on and off flash rate)*
- 24VDC Power transmitter assembly
- 12VDC Power receiver assembly
- 2 Junction boxes *(for connecting spliced cables)*
- 2 Coupler boxes *(for connecting to cables with connectors)*
- Transmitter mount
- Receiver mount
- Cables - Primary (1)10', Extension cables (2) 7' & (2) 10'
- Post mounted bracket assembly
- All hardware required included

Required:

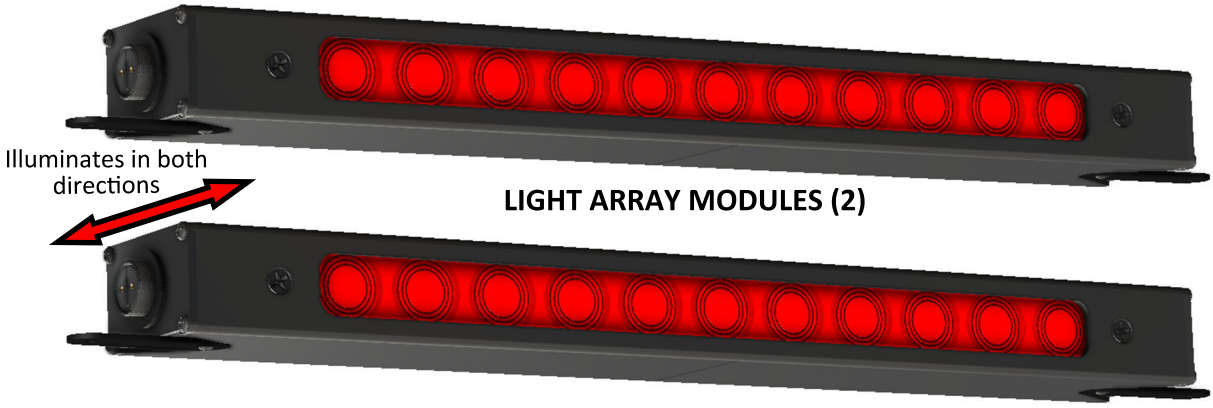
(For Vmag operators use one of the controller stand posts)
A 4" dia. x 36" diameter post for setting or 12" if base mounted.
A post cap is recommended
24VDC power source *(usually available from the gate operator)*

Required Tools:

DC volt meter
9/16" ratchet wrench
Adjustable wrench or an additional 9/16" ratchet wrench
#2 Phillips screwdriver
3/16" drill bit
Drill
5/16" socket driver
Marking pen (Nib marker Amazon)

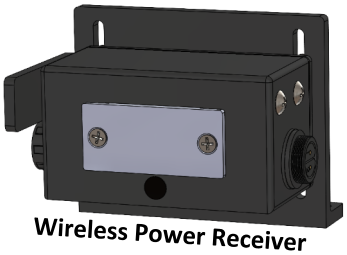
hoehew Upgrade Long Head Deep Hole Marker...
4 ★★★★☆ (103)
$5.49

PARTS IDENTIFICATION



LIGHT ARRAY MODULES (2)

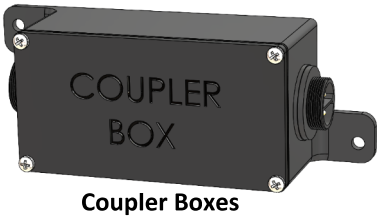
Wireless Power Transmitter



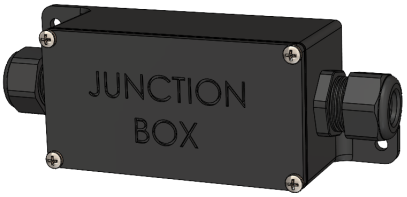
Wireless Power Receiver

Receiver Template

Flasher Controller w/ 1' Cable

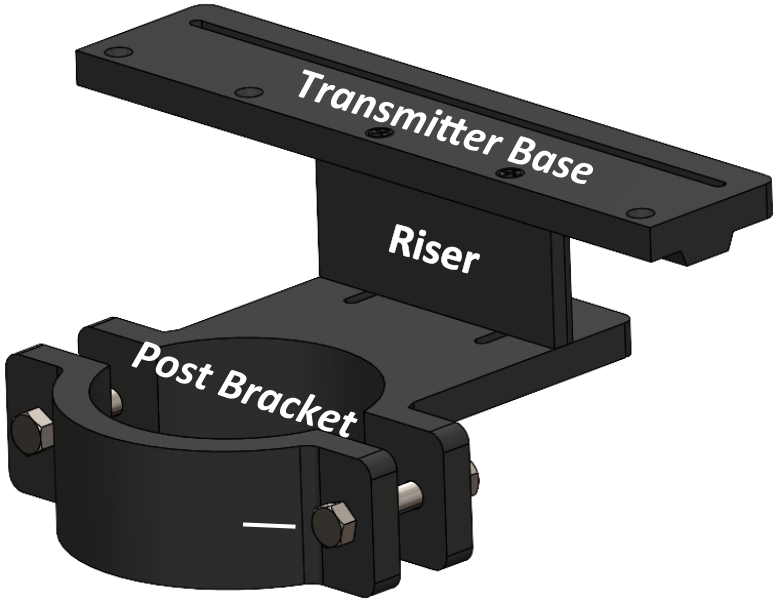


Coupler Boxes (2)

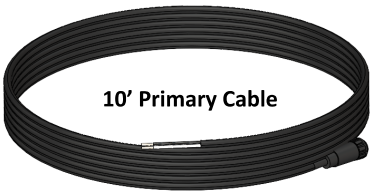


Junction Boxes (2)

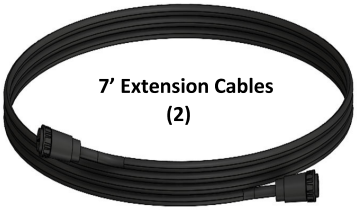
(2 wire nuts with dielectric grease included)



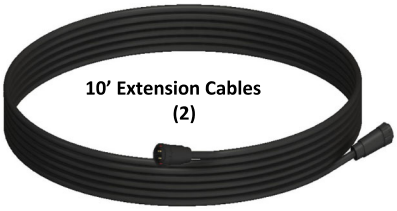
Post Bracket Assembly



10' Primary Cable



7' Extension Cables (2)



10' Extension Cables (2)

INSTALLATION

STEP 1 Post Location

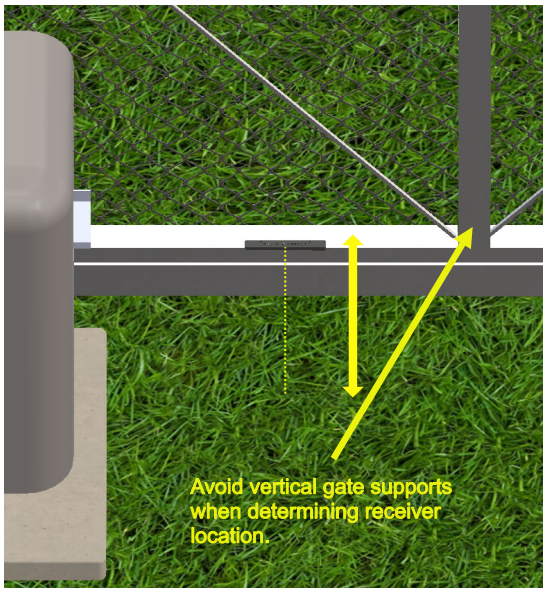
A steel or aluminum 4" OD post approximately 36" length *(if set in ground)* is required.
The post hole is recommended is 12" diameter minimum and depth will depend on the geography at the installation site. 24" depth is recommended.
(A one foot post with a mounting base will also work if bolted to concrete.)
(For Vmag operators use one of the controller stand posts)

Locating the post hole

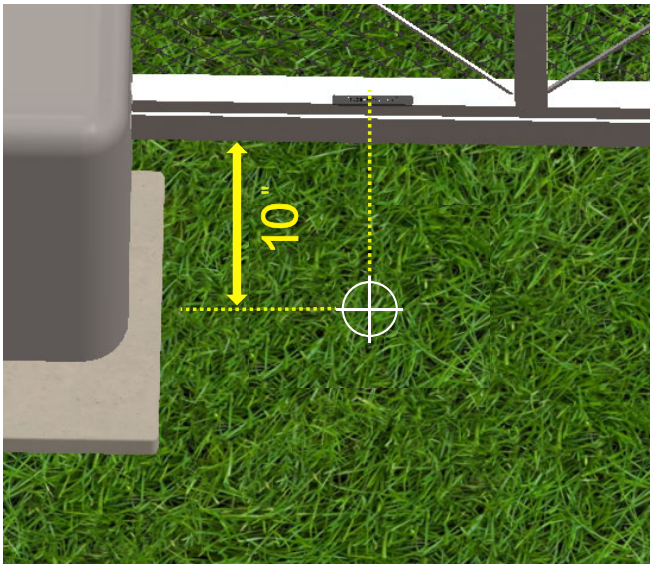
Receiver Location

The receiver template will help determine the receiver location.

GATE IN CLOSED POSITION

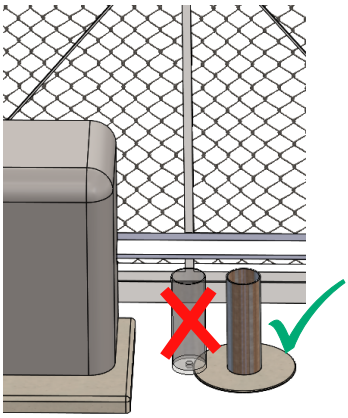


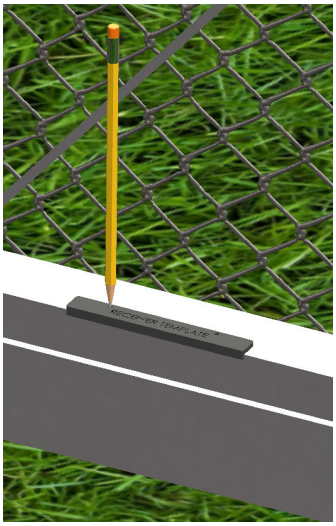
With the gate in the close position, position the template on the bottom gate frame around 10" from the base of the operator.



Align the center of the receiver template with the center of the post hole and 10" out from the inside surface of the gate frame.

Vertical Gate Support



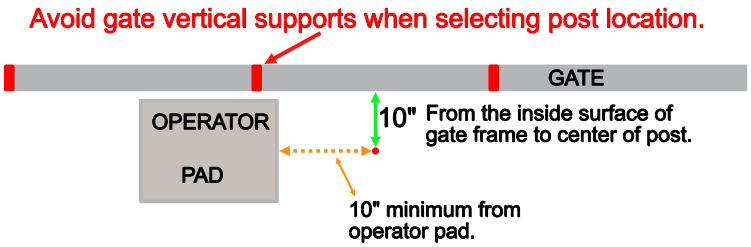


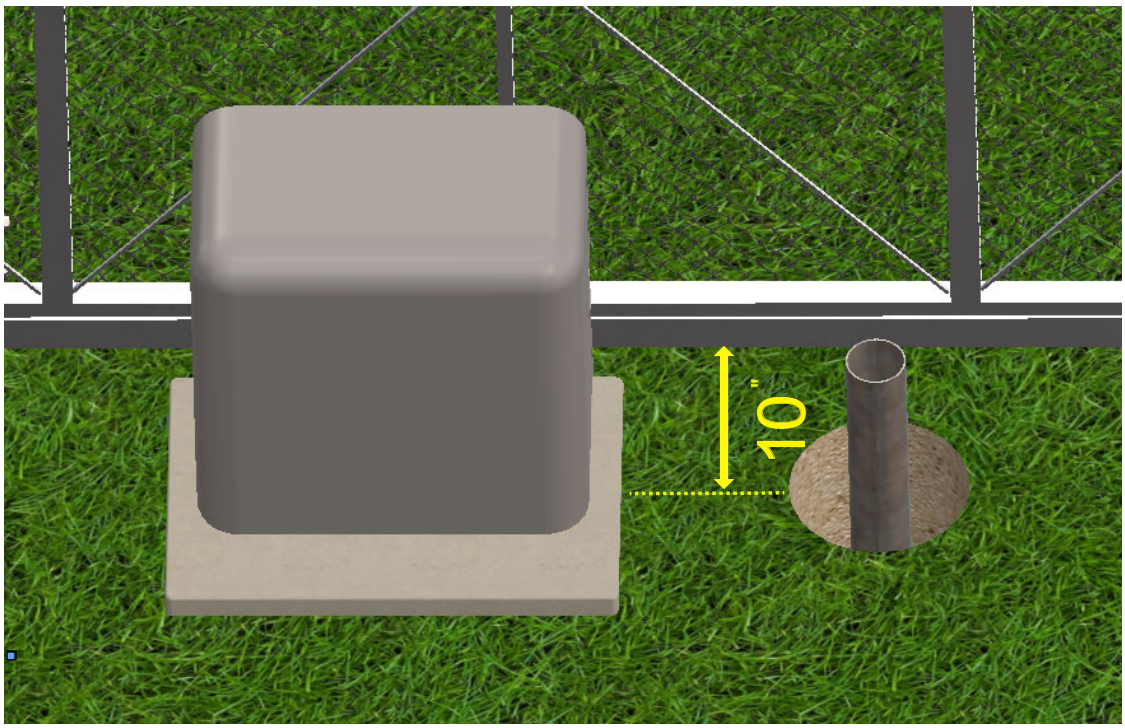
Mark the two hole locations for the receiver using the template.
Receiver to be installed later.

STEP 2 Post Installation

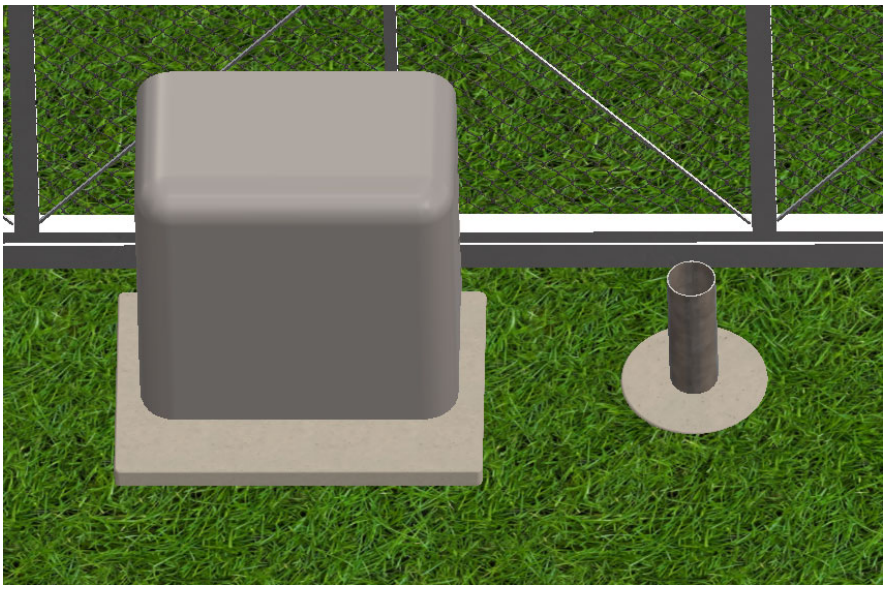
The post hole is recommended is 12" diameter minimum and depth will depend on the geography at the installation site. 24" depth is recommended.

(A one foot post with a mounting base will also work if bolted to concrete.)





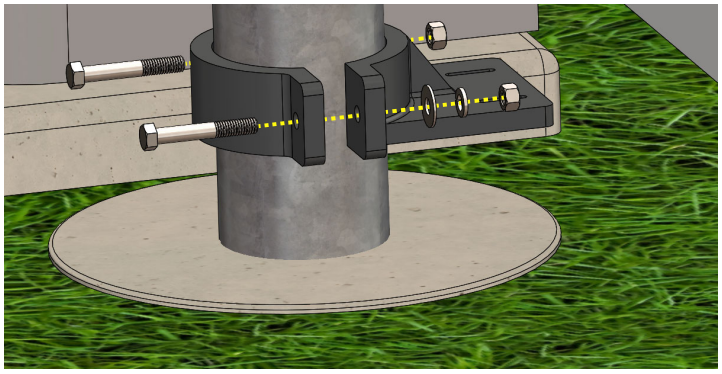
Make the hole 12" diameter and depth in accordance with local standards.



Set post in concrete and allow to set up.

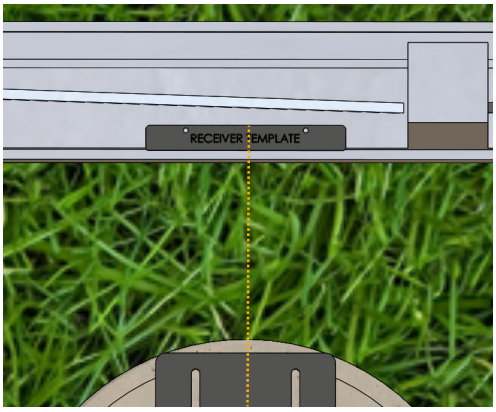
STEP 3 Post Bracket Install

Assemble the post bracket as shown using 3/8" hex bolts, lock washers, flat washers and nuts . Slightly tighten for now. Height will be adjusted later. The bracket should be perpendicular to the gate.



STEP 4 Receiver Install

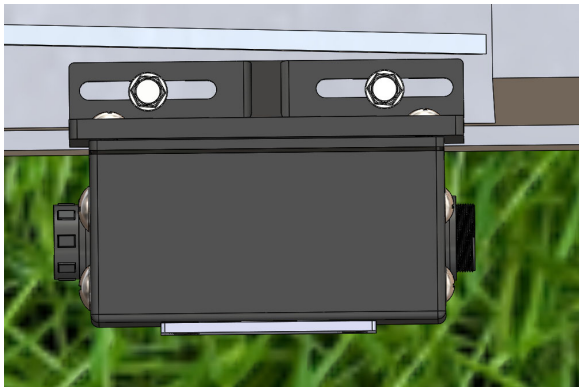
A



Align the center of the receiver template *(the 'T' is close to center)* to the center of the post.

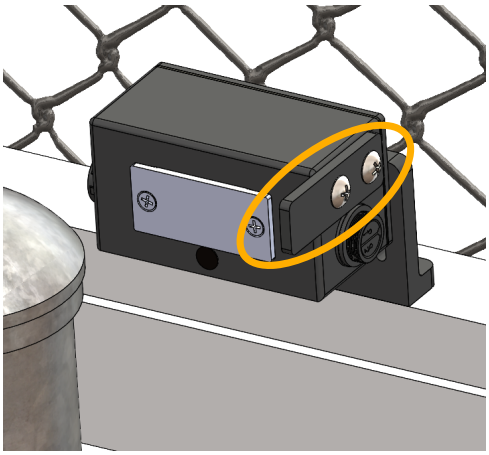
Mark the the holes to be drilled using the two holes in the template.

B



Drill both holes using a 3/16" drill bit. Install the receiver assembly using two self drilling screws with a 5/16" socket and drill.

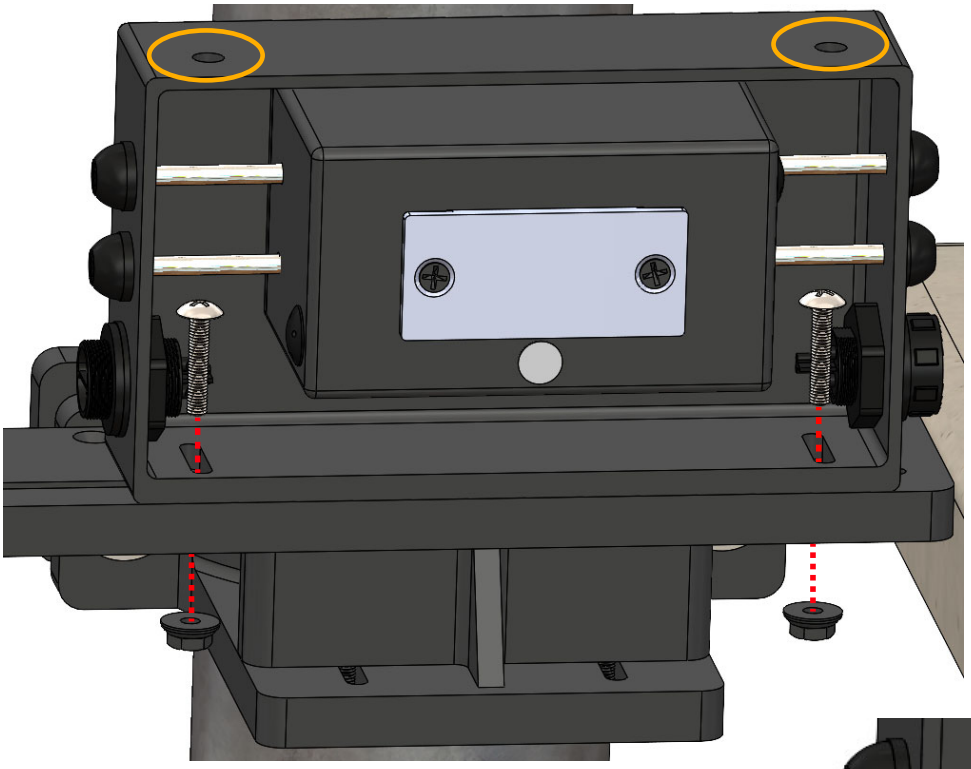
C



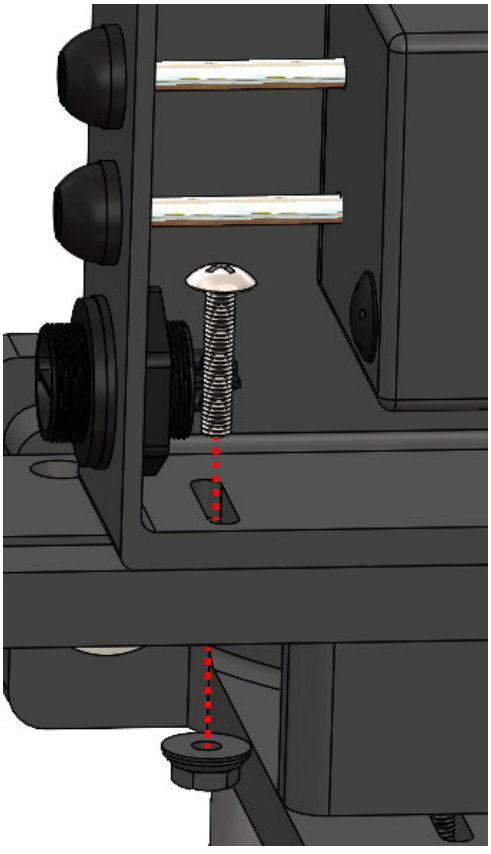
The stop arm must be installed on the side of the open direction.

STEP 5 Transmitter Install

A Remove the two hole plugs out by pushing up from the bottom for screwdriver access.



B



Install the transmitter assembly using two truss head 10-32 x 1" screws and two 10-32 serrated black nuts.

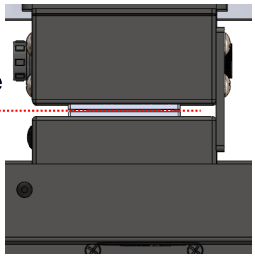
Tighten lightly. Final adjustment will come later.

STEP 7 Transmitter & Receiver Alignment

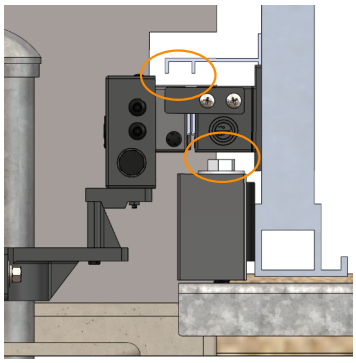
The following examples are for a gate that closes to the left.

A Place the gate in the close position.turn power off.

B The gate should be vertical. Adjust the bottom gate guide rollers if required.

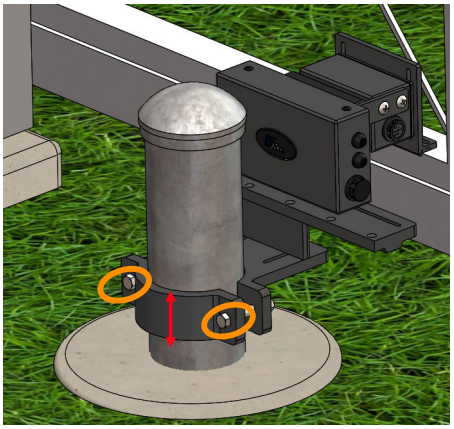


Verify that there is clearance under the operator rail *(if used)* and over the gate bottom guide roller.



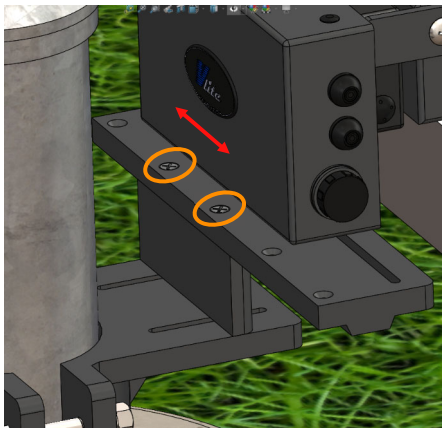
There are three directions of adjustment.

UP & DOWN



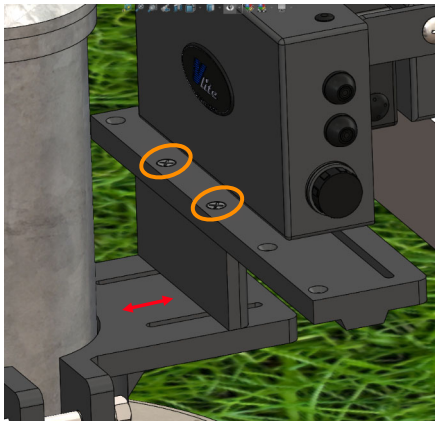
Loosen these bolts to raise or lower the transmitter to align the top of the transmitter with the receiver.

LEFT and RIGHT

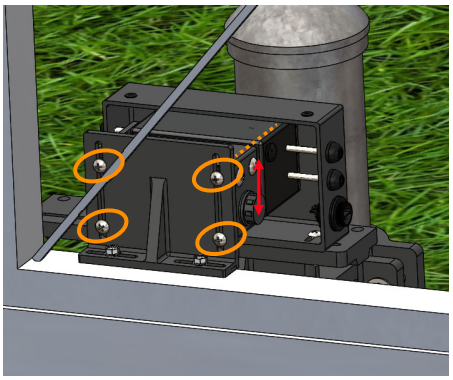


Remove these screws. Shift the transmitter assembly left or right and re-install using a different set of holes.

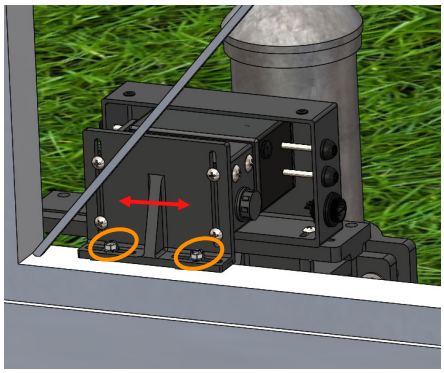
FORWARD and BACKWARD



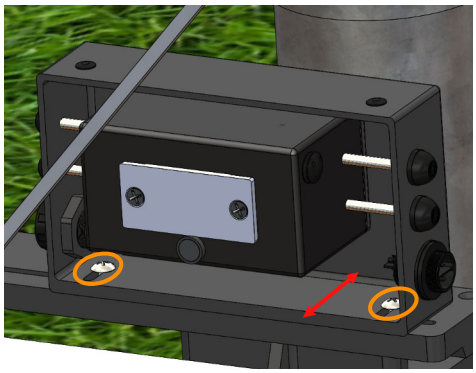
Loosen these screws. Shift the transmitter assembly forward or backward to align the gap distance with the receiver.



Loosen these screws to raise or lower the receiver to align the top of the receiver flush with the top of the transmitter.



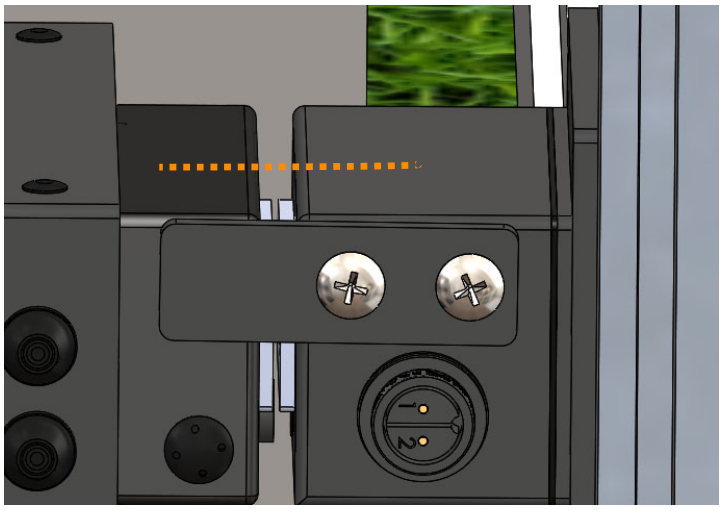
Loosen the two self drilling screws to slide the receiver left or right if some tweaking is required.



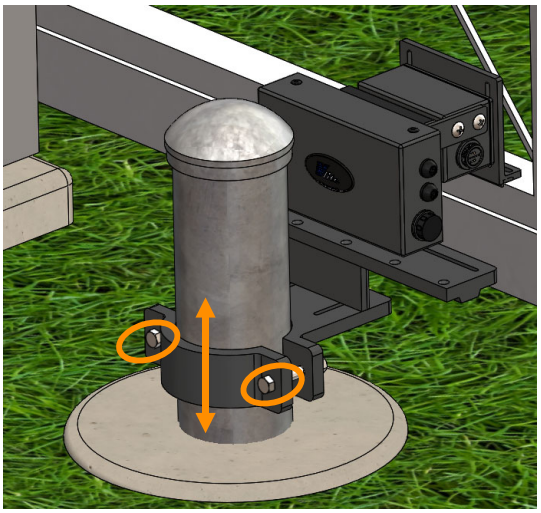
Loosen these screws to position the transmitter forward or backward.

STEP 8 Transmitter & Receiver Alignment

Gate must be in the close position. Either slide the transmitter assy or the receiver bracket to align the receiver stop arm touching the transmitter body.



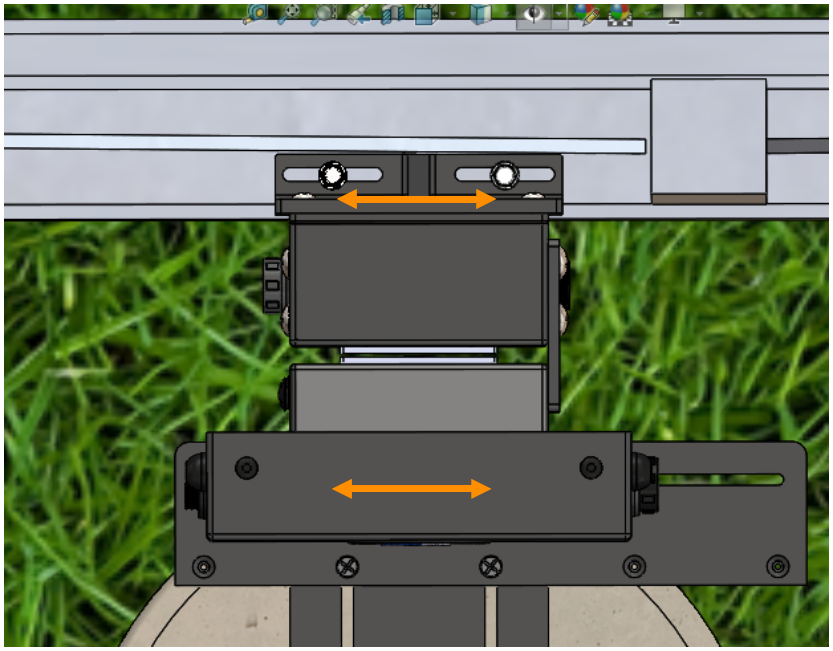
Vertically adjust the post bracket to horizontally align the transmitter level with the receiver.

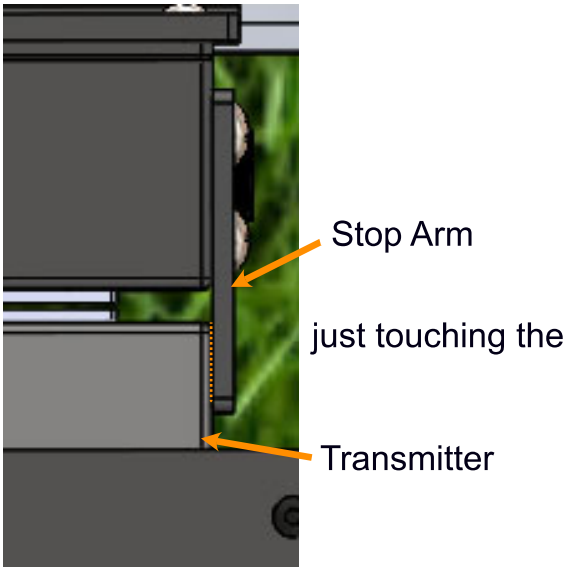


Loosen these bolts to raise or lower the transmitter to align the top of the transmitter level with the receiver.

(Refer to page 9 for horizontal and vertical adjustments.)

Horizontally adjust either the transmitter assembly or the receiver bracket or both to align the receiver stop arm just touching the transmitter.

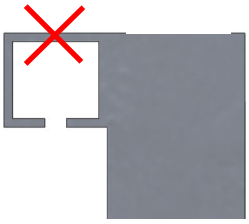




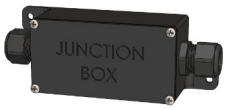
CABLE CONNECTIONS - GATE CLOSES TO LEFT

Start with step 1 *(at the bottom)* and follow the sequence moving up.

Do not mount arrays on the truck *(trolley)* track!

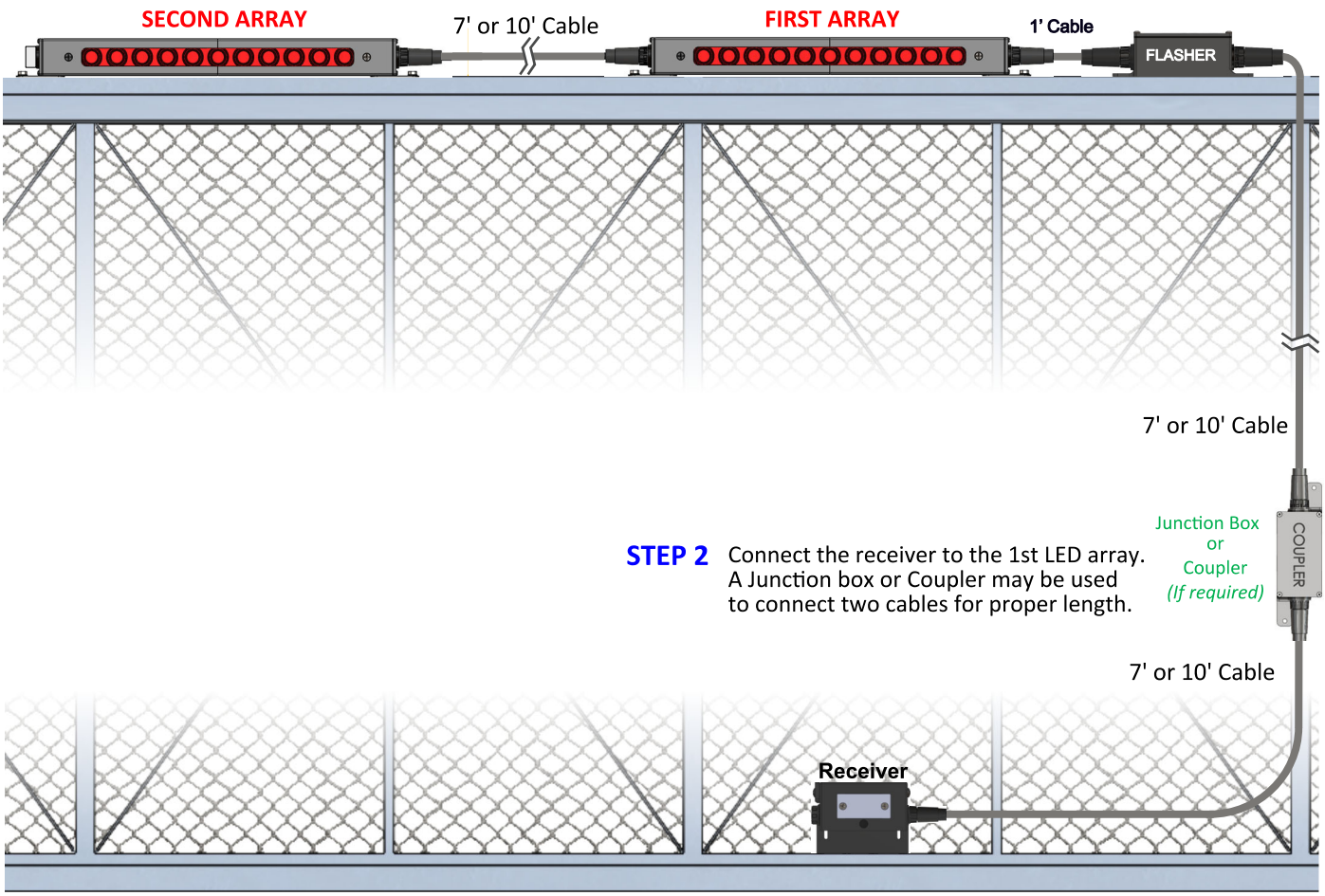


The **JUNCTION** boxes are provided for splicing the cable if required.
(Each box contains two wire nuts with dielectric grease)

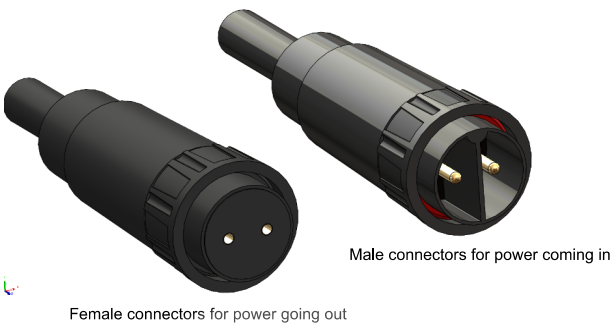


The **COUPLER** boxes are provided for connecting two cables with the connectors if required.

STEP 3 Connect the LED arrays with a 7' or 10' cable.



STEP 2 Connect the receiver to the 1st LED array. A Junction box or Coupler may be used to connect two cables for proper length.



Male connectors for power coming in

Female connectors for power going out

Auxiliary power from gate operator
WHITE POSITIVE +24VDC
BLACK NEGATIVE

Transmitter

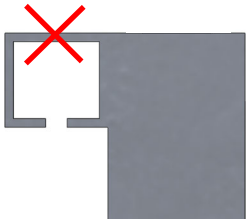
10' Primary cable

STEP 1 Run the 10' primary cable from the transmitter to the auxiliary 24VDC supply from the gate operator. Cut & re-strip excess cable at the gate operator.

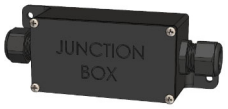
CABLE CONNECTIONS - GATE CLOSES TO RIGHT

Start with step 1 *(at the bottom)* and follow the sequence moving up.

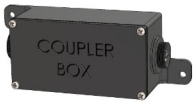
Do not mount arrays on the truck *(trolley)* track!



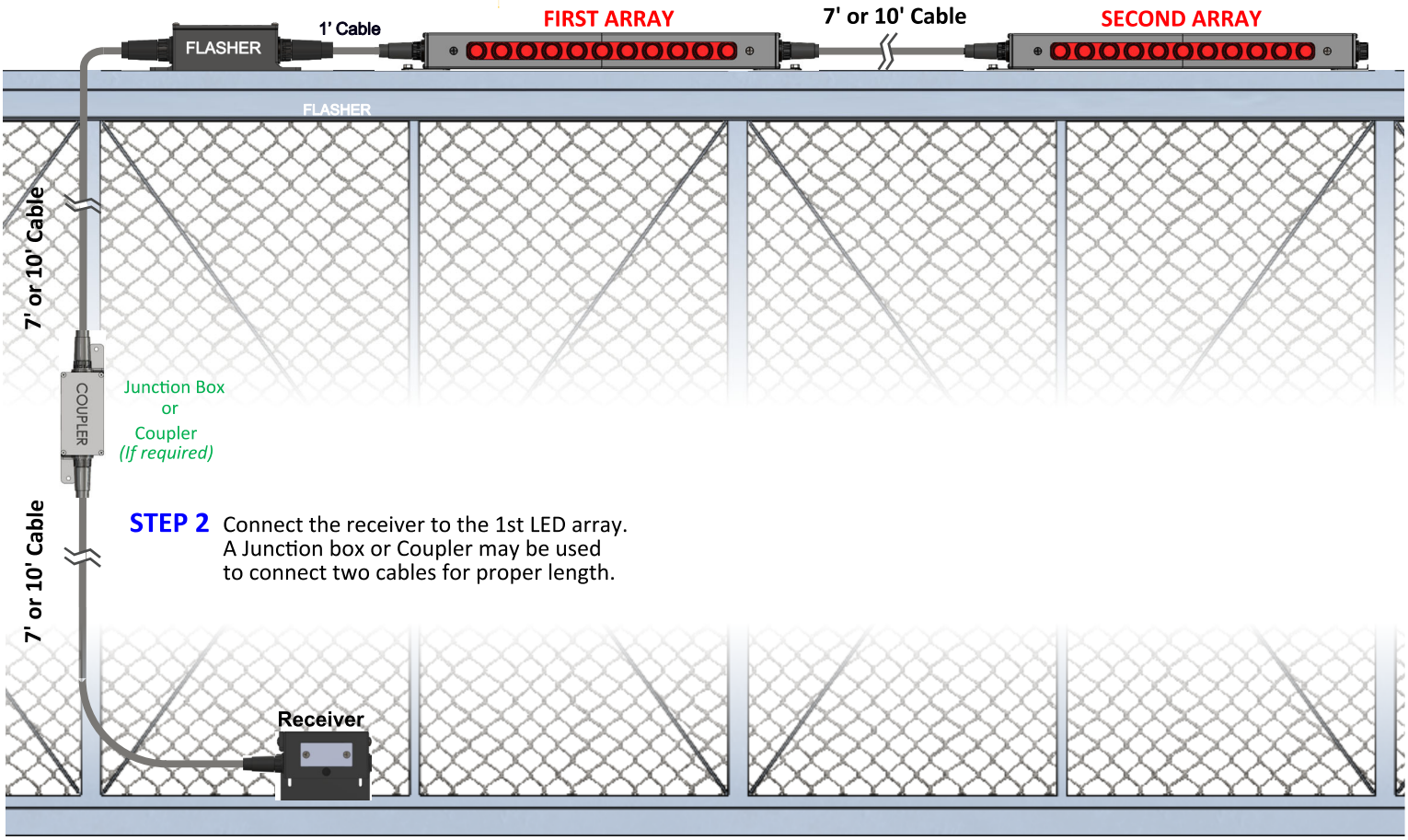
The **JUNCTION** boxes are for splicing two cables together.
(Each box contains two wire nuts with dielectric grease)



The **COUPLER** boxes are provided for connecting two cables



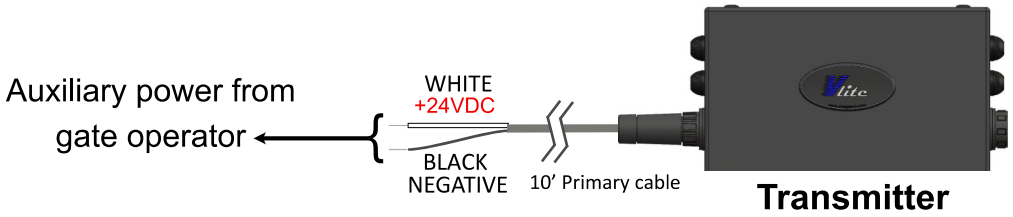
STEP 3 Connect the two LED arrays with a 7' or 10' cable



STEP 2 Connect the receiver to the 1st LED array.
A Junction box or Coupler may be used
to connect two cables for proper length.

STEP 1 Connect the 10' primary cable to the 24VDC operator auxiliary power.

(Use the transmitter connector that is closest to the gate operator).



Cut & re-strip excess cable at the gate operator.

INSTALLING CABLE CLIPS

Secure the cables with the cable clips where needed with #12 x 3/4" self drilling screws using a 5/16" socket

(drilling a 3/16" pilot hole will allow the self drilling screw to go in easier.

OPERATION

1. Turn power on to the gate operator. When the gate is closed, the lights should illuminate.

   If there is no illumination after ten minutes, check all connections. Verify transmitter and receiver alignment.

   All units are tested for proper operation prior to shipping.

   All units are warranted for five years from time of installation.

   No maintenance is required.

SPECIFICATIONS

Power Requirement	24VDC 1 Amp
Temperature Range	-22ºF to 122ºF
Cables & Connectors	UL listed, Outdoor rated, 18 AWG pair
Parts Material	3D printed ASA rated for outdoor use
Hardware	All shafts, springs and fasteners are 10-18 or 316 Stainless Steel
Shipping Weight	12 lbs
Box Dimensions	20" x 17" x 7"

LIMITED FIVE-YEAR WARRANTY

The Vlite warning light system is warranted against defects for a period of 60 months from the date of purchase, providing installation procedures as per this manual are followed. This warranty is in lieu of all other warranties expressed or implied (some states do not allow limitations on how long an implied warranty lasts, so this limitation may not apply to you) and shall be considered void if damage was due to improper installation or use, connection to improper power source, or acts of God. The manufacturer will not be responsible for any charges incurred in the removal or replacement of defective parts.

Lightning or electrical power surges may cause damage beyond repair and are not covered in this warranty.

In the event of a failure due to defective material or workmanship during the first year, replacement parts will be new.

After the first year, replaced parts may be new or refurbished to factory specifications. Replaced parts will be warranted for the remainder of the original warranty or two years.