



FLOCK OFF
INSTALLATION MANUAL

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To ensure functionality of the Flock Off system, use only Flock Off approved components. Any modification or adjustment should be approved by Flock Off prior to installation.



A Violation of the above can result in the loss of warranty.

It is extremely important to follow each step outlined in the Flock Off Installation Guide for optimal results.

SAFETY WARNINGS



This system produces an electrical current which could cause injuries. Only certified, trained professionals should perform the installation. To avoid electric shock, system must be turned off before performance of any maintenance.



Working at elevated heights must be done according to the safety standards applicable to this type of work. Falls could result in serious injuries or even death. Prior to the installation, fall protection must be verified and means of a suitable access to the location must be identified. Evaluate, if necessary, the need to install further fall protection equipment.

Components



▪ Power Supply

- Qty. 1
- IP Rating: 65
- AC 110/220 volts
- Power Consumption: 25 watts
- System Operation: 2,500 volts AC at .021 amps



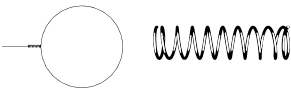
▪ Stainless Steel Wire (SS wire)

- Qty. 1
- 600 ft. / 180m
- 316 Stainless Steel Wire, 0.45 mm gauge



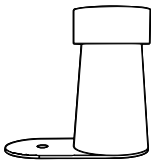
▪ Double Insulated Wire

- Qty. 1
- 82 ft. / 25m



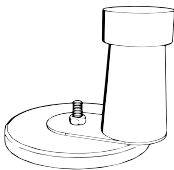
▪ Ring and Spring

- Qty. 20 each



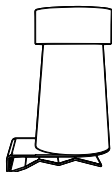
▪ Roof Capacitor (kit dependent)

- Qty. 100



▪ Magnetic Capacitor (kit dependent)

- Qty. 100



▪ Metal Clip Capacitor (kit dependent)

- Qty. 100

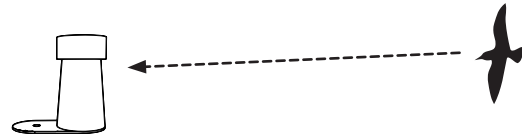


▪ Warning Sticker

- Qty. 2

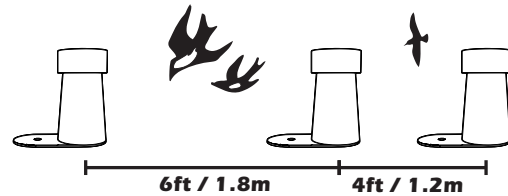
Before You Begin

1. Line of Sight - The Flock Off System is most effective when the capacitors are pointed in the direction of a bird's line of sight.

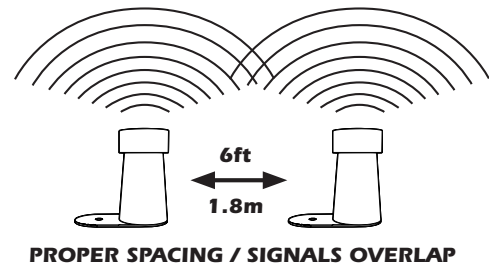


2. The recommended capacitor spacing according to bird species is as follows:

- Pigeons or larger - up to 6ft / 1.8m
- Smaller than pigeons - up to 4ft / 1.2m

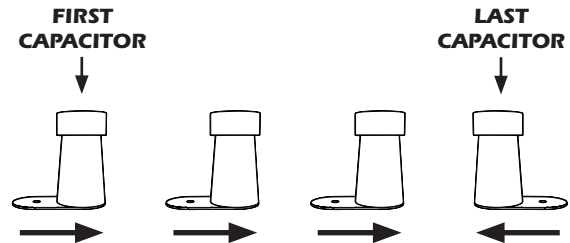


3. Do not exceed the recommended spacing as it will cause gaps in signal coverage and can cause the system to be ineffective.

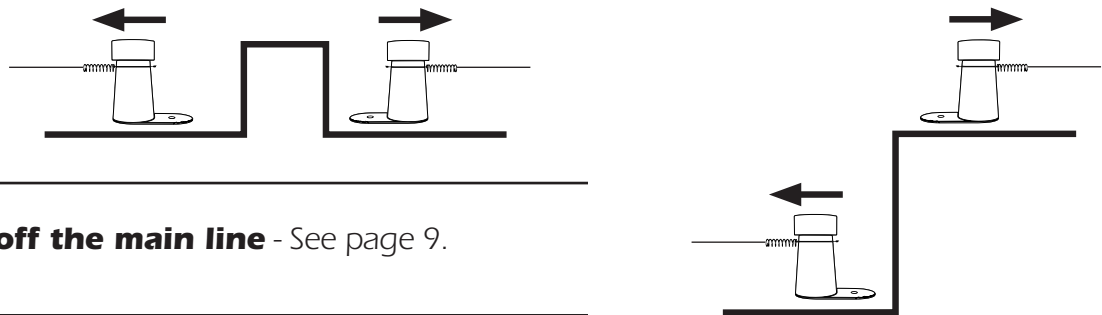


4. Orientation of capacitors -

When laying out the roof and magnetic capacitors, the base of the first and last should face in the opposite direction of each other. The capacitors in between should have the flange facing the opposite direction of the tension being applied. This will prevent the capacitor from lifting during the wiring process.



5. Obstacles - If there are any obstacles or there is a need to change levels during installation, a jumper will need to be created. The wire must never come within 1.5" / 3.8cm of any substrate. See page 10.



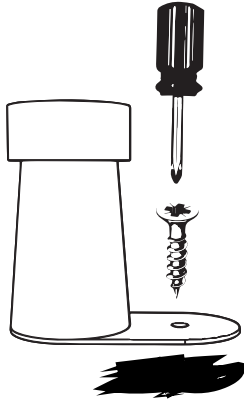
6. Branching off the main line - See page 9.

7. Grounding - If you are installing on Concrete, Brick, Stone, or Tile, you may need to ground the system. Place SS wire around base of capacitor and connect to a grounding source.

Capacitors

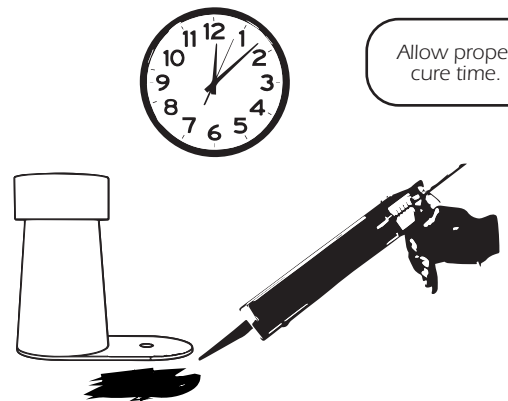
ROOF CAPACITOR

To install the roof capacitor, screw into the sub-structure and/or apply adhesive to the bottom.



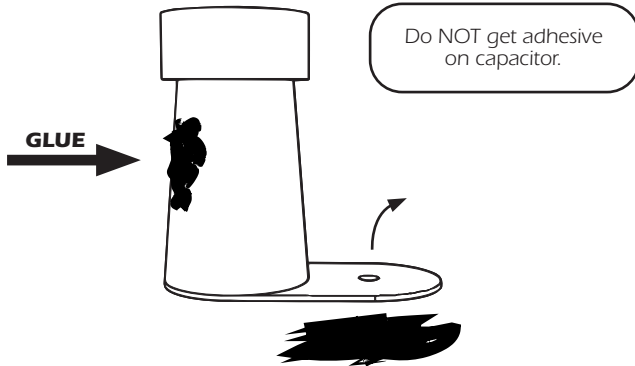
ROOF CAPACITOR

When using adhesive, allow for proper cure time before installing the wire.



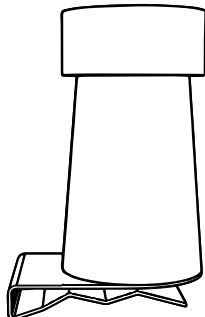
ROOF CAPACITOR

When using adhesive, make sure to not get any on the capacitor.



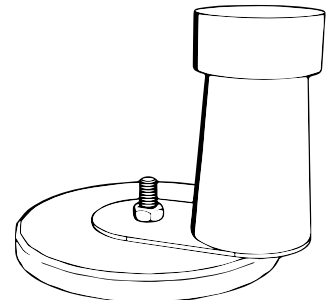
CLIP CAPACITOR

The metal clips can fit an edge up to 1/4" thick. Slide the clip on to the edge. It may be necessary to add adhesive to secure into place.



MAGNETIC CAPACITOR

Attach the magnet to the sub structure. Ensure there is a solid connection. If the magnet moves while the wire is being tensioned, find another attachment method i.e. screwing or adhesive.

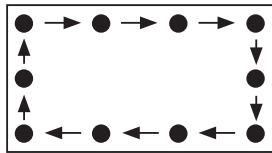


01 Installing the System

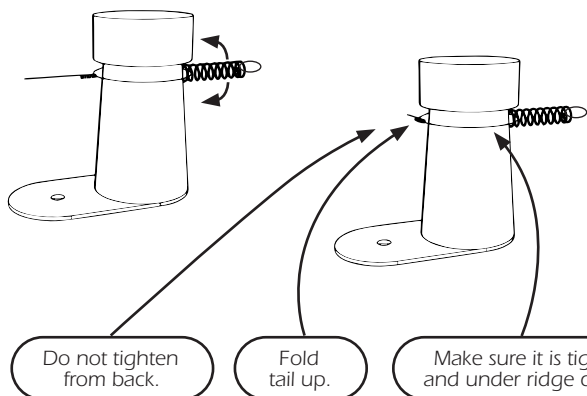
1. Clean and prepare surface



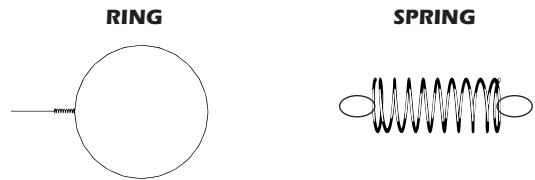
2. Layout and attach capacitors to substrate



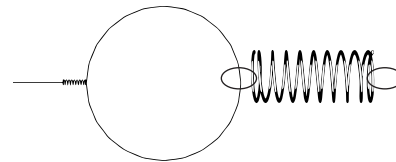
4. Tighten ring around the capacitor by holding spring and twisting until tight against capacitor.



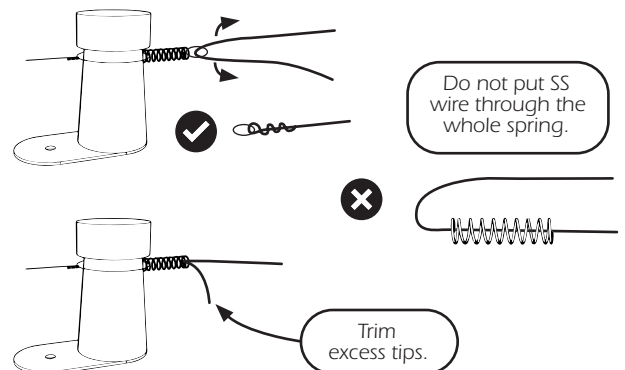
3. Wiring the capacitor



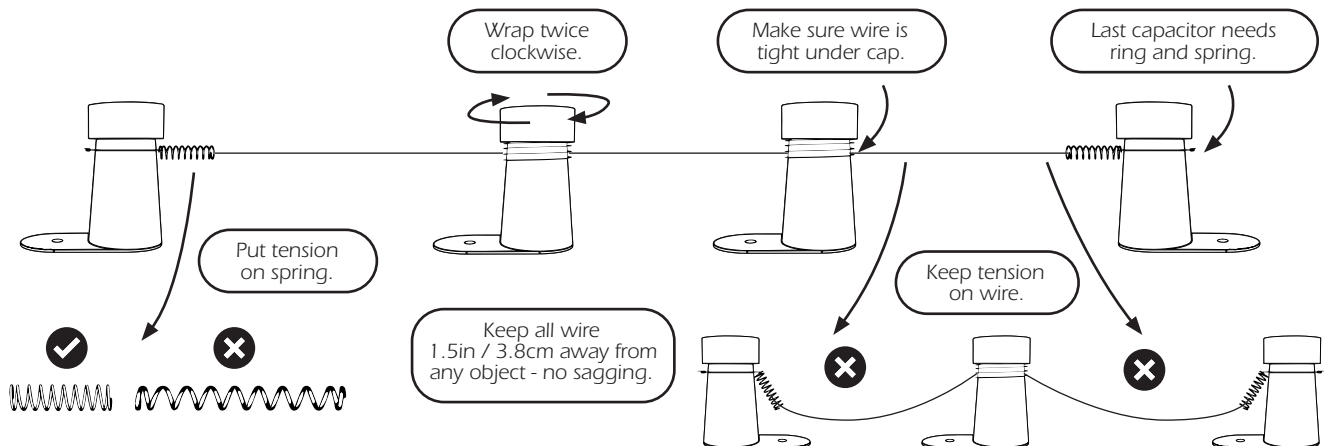
Attach ring to spring by taking first loop of spring and threading onto ring.



5. Put the SS wire through the first loop of the spring. Wrap tightly back on itself.

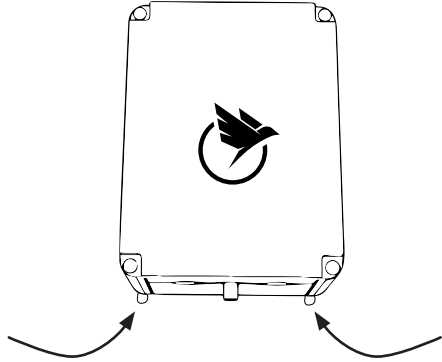


6. ALL CAPACITORS must be wrapped in the same direction for the system to function properly.

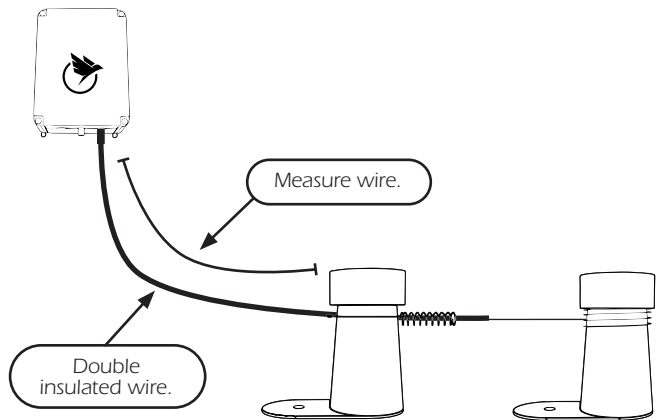


02 Installing Power Supply

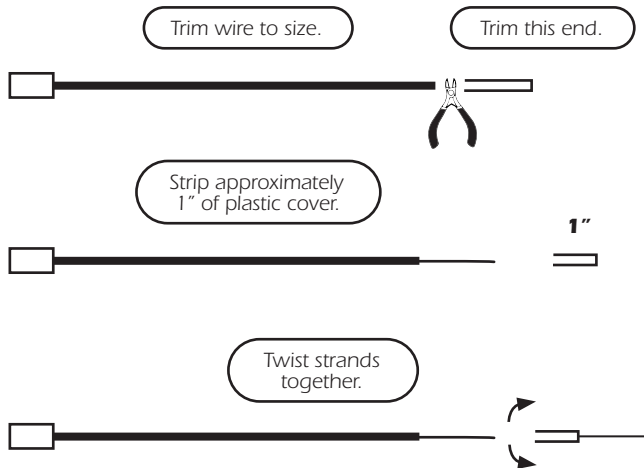
1. DO NOT power the system on until the system is fully installed. Using the tabs on the power supply, mount the box to the mounting surface.



2. Measure the length of the double insulated wire needed to reach the first capacitor.

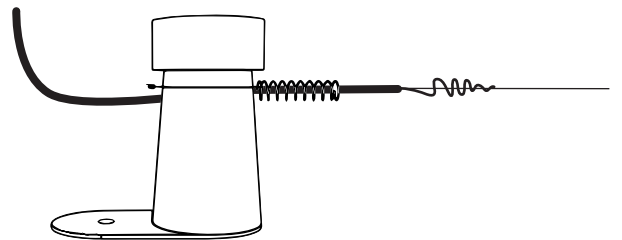


3.

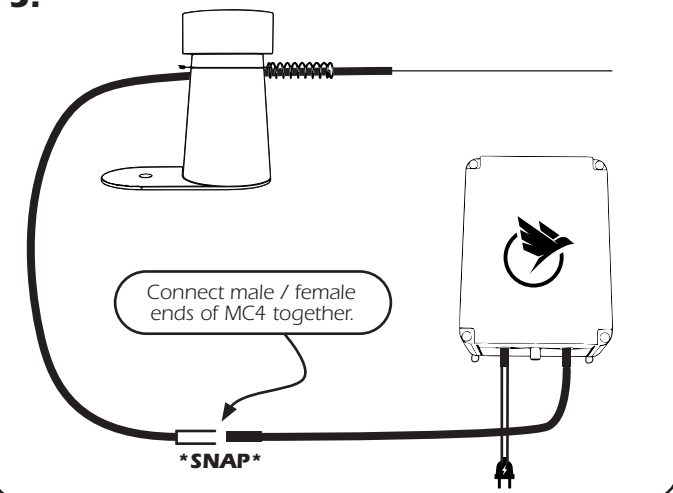


4.

- Feed double insulated wire through spring.
- Wrap exposed wire on main wire.

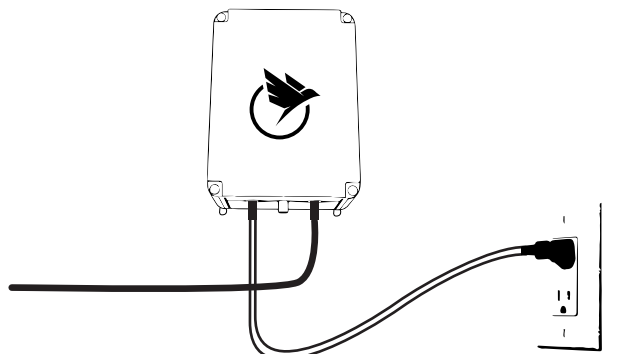


5.



6.

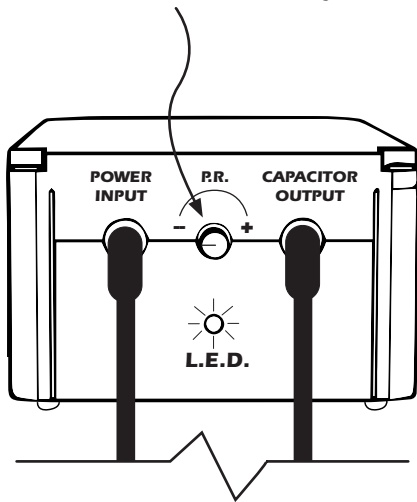
- Make sure power is at lowest setting.
- Plug system in.



03 Setting Power Level

1. Set the power level

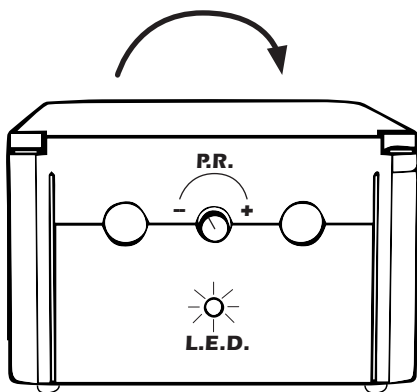
- Before plugging the power supply in, make sure the regulator is turned all the way to the left.



2. ONLY ONE OF THE FOLLOWING STEPS ARE REQUIRED

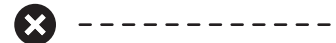
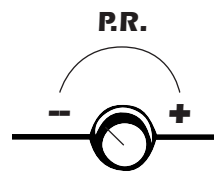
A.

- **Slowly** turn the power regulator clockwise until you see LED dim or start to flash
- Turn the power regulator back until LED turns back to original brightness. Leave at this position.
- *Add a mark to indicate correct setting.



B.

- Turn knob slowly until you hear a chattering noise.
- Turn knob back until you hear a steady hum.
- Leave at this position.
- *Add a mark to indicate correct setting.

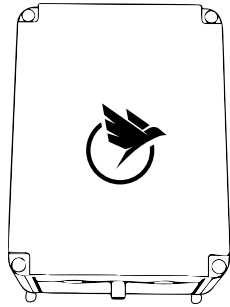


04 Checking the System

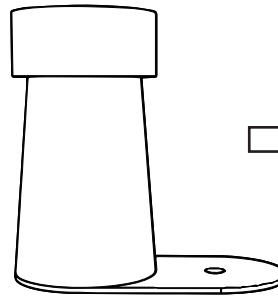
1. With the power set properly, utilize the Flock Off Detector to ensure an electromagnetic signal is emitting from the components.



DETECTOR



POWER SUPPLY

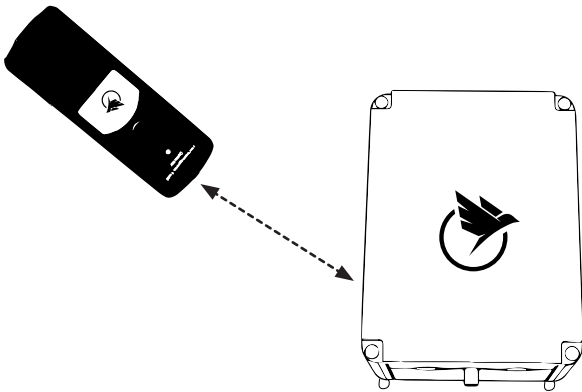


CAPACITOR

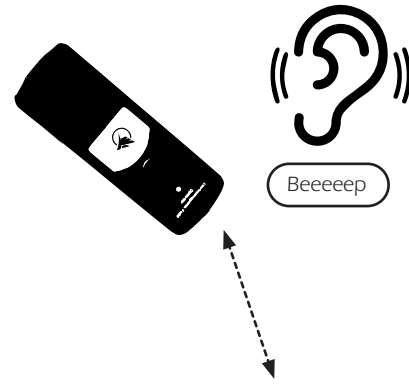


DOUBLE INSULATED WIRE

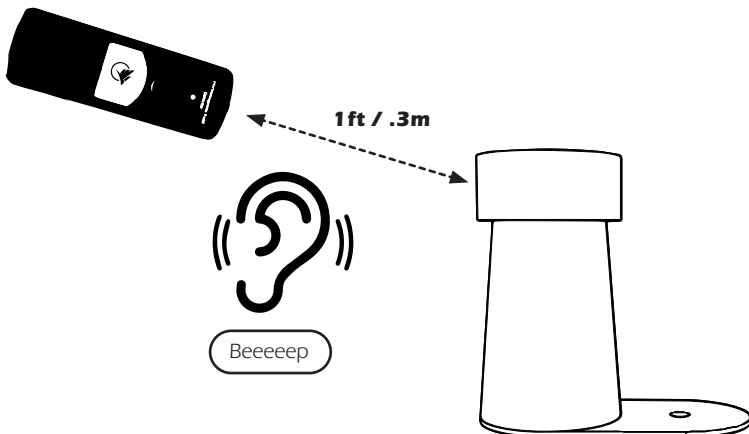
2.



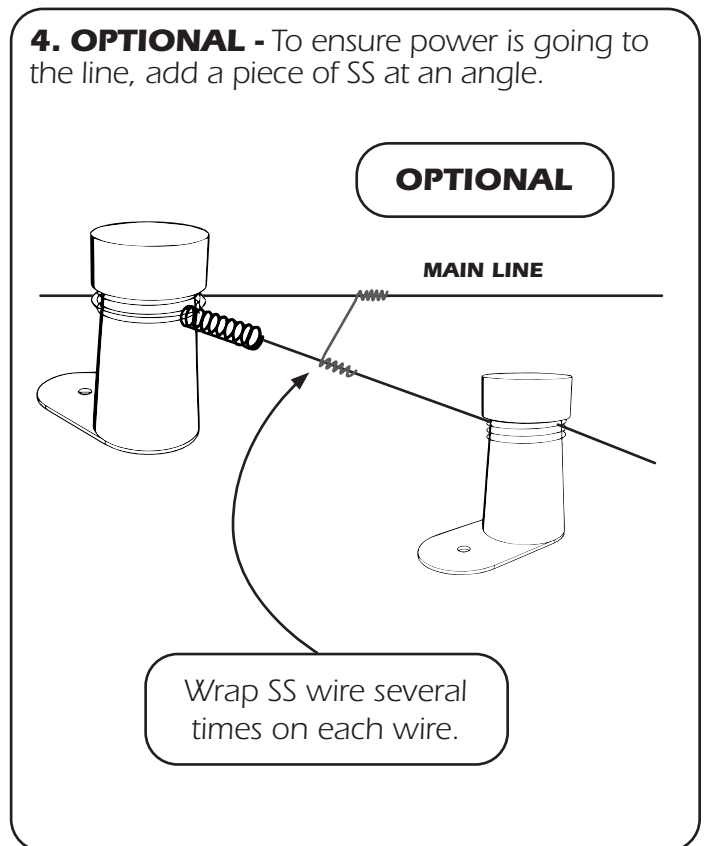
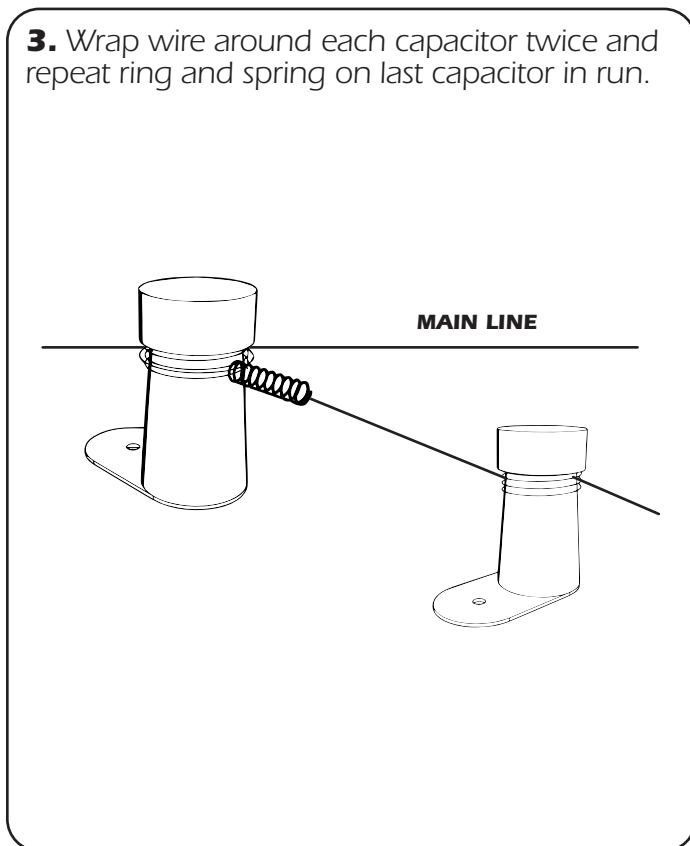
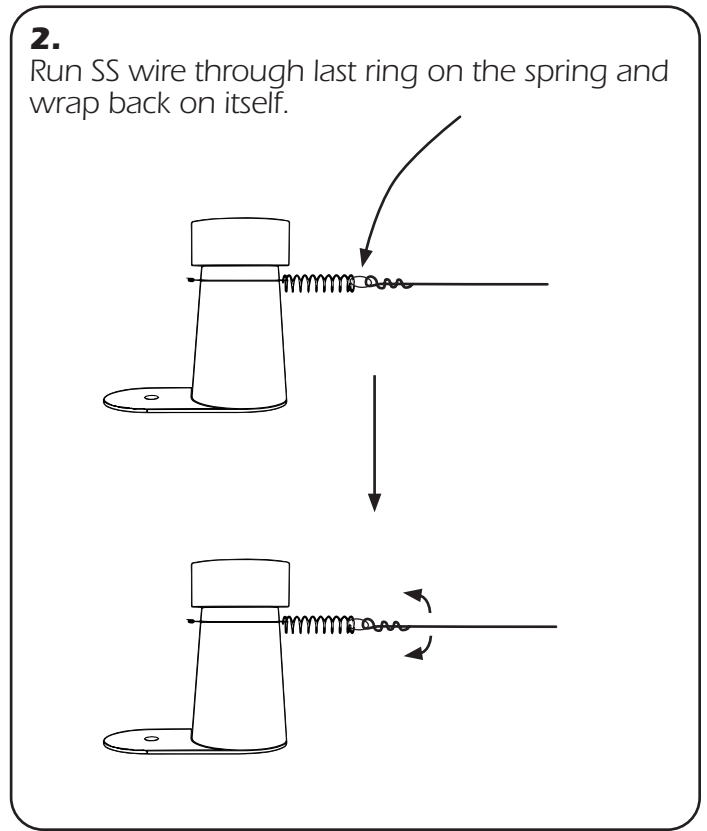
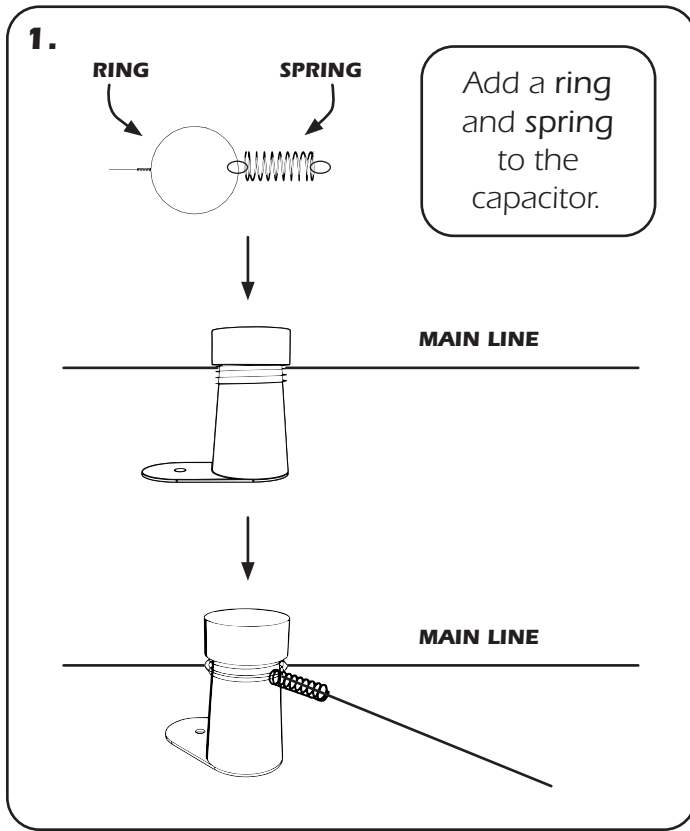
3. Check signal at insulated wire.



4. Check every capacitor for signal.

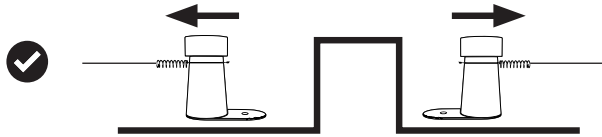


A. Branching Off Main Line

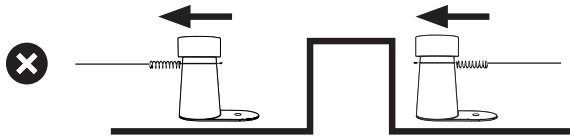


B. Creating a Jumper

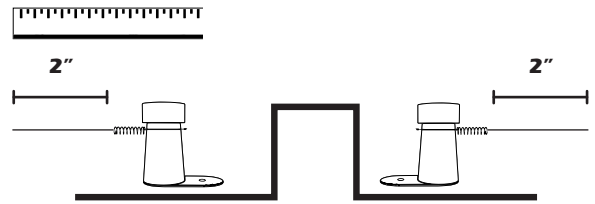
1. If there is an obstacle that will cause the wire to come closer than 1.5" / 3.8m, you will need to create a jumper.



- Place capacitor on either side of obstacle.
- Bases of capacitors should be opposite.
- Put a ring and spring on each capacitor.



2. Measure the distance between the two capacitors. Cut a piece of double insulated wire 2" longer on each side.

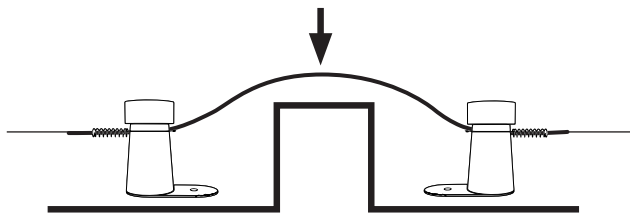


Strip .5" off each end. Twist strands together.

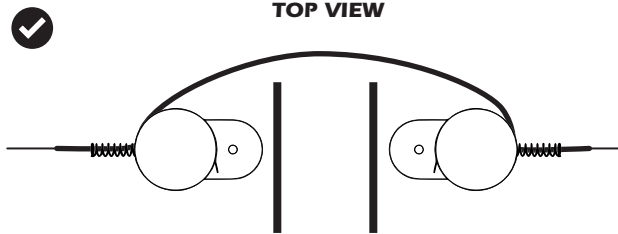


3. Feed through ring and spring and wrap onto SS wire.

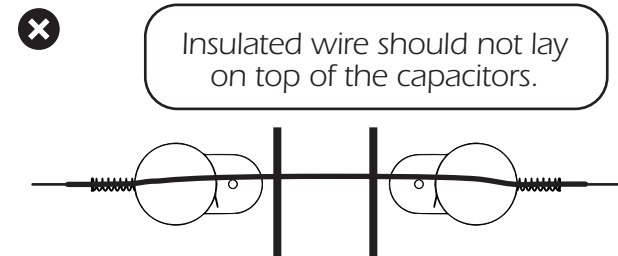
DOUBLE INSULATED WIRE



TOP VIEW

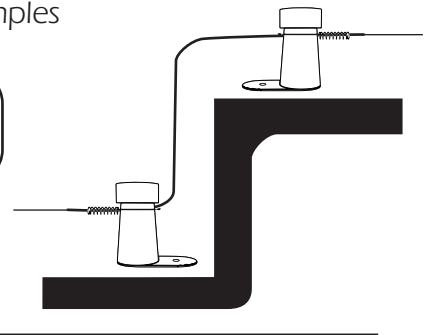


Insulated wire should not lay on top of the capacitors.

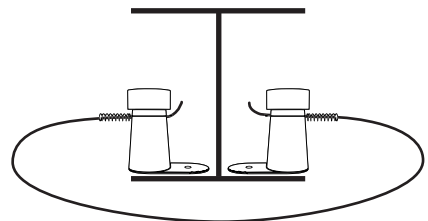


4. Jumper examples

Different levels

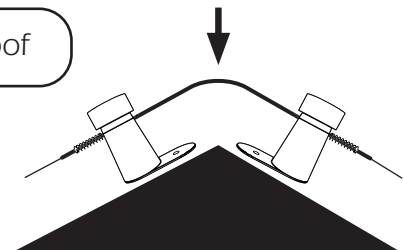


I-Beam



JUMPER

Peak of roof



Troubleshooting

PROBLEM	POSSIBLE CAUSE AND SOLUTION
<p>FLOCK OFF POWER SUPPLY FAILS TO TURN ON</p>	<ol style="list-style-type: none"> 1. Make sure the power supply is receiving power by using a non-contact voltage meter to test the power outlet. 2. If the unit has been connected to a GFIC outlet, make sure the outlet has not tripped. If it has, reset the GFIC.
<p>BIRDS ARE NOT BEING REPELLED</p>	<ol style="list-style-type: none"> 3. Check the entire system to validate power is present using a non-contact voltage meter or Flock Off Signal Detector. Signal should be received at least 1ft / 3m away. (pg. 8) 4. Ensure that no part of the stainless-steel wire is closer than 1.5" / 3.8cm to any physical object. If so, a jumper should be used. (pg. 5, 10) 5. Is the Power Regulator set to the correct level? (pg. 7) 6. Are capacitors placed in line of sight of the birds? (pg. 3) 7. If the capacitors are installed on brick, concrete or tile, was a ground wire used? 8. If jumpers were used, make sure they have been connected and are wrapped onto the main wire. (pg. 10) 9. Ensure all capacitors are wrapped twice in a clockwise direction when using the standard stainless-steel wire. (pg. 5) 10. Ensure all wraps around capacitors are tight and tucked up under the cap of the capacitor. (pg. 5) 11. Make sure all rings and springs are tight against the capacitor. (pg. 5)

If you continue to have an issue with your Flock Off System, please contact Flock Off directly by email customercare@flockoff.com.

Warranty: Seller warrants to Customer that for a period of twenty-four (24) months from the date of shipment by Seller, all Goods will: (a) be free from any defects in workmanship, material and design; (b) conform to applicable specifications and other requirements specified by Seller; (c) be fit for their intended purpose and operate as intended; (d) be merchantable; (e) be free and clear of all liens, security interests or other encumbrances. Customers may return Goods for a full refund (less shipping and restocking fee) within thirty (30) days from the date of shipment by Seller if not completely satisfied with the performance of the Goods.

