



Installing Bird-Zap Shock Track™

Please read these instructions thoroughly BEFORE attempting to install your Bird-Zap Shock Track system!

Bird-Zap Shock Track is an integrated system of components that when assembled properly, creates an effective and discreet bird deterrent on all types of installation surfaces. To complete the installation you should have a working knowledge of electrical connections, be able to perform simple mechanical procedures and be



able to to improvise and/or adapt the Bird-Zap Shock Track system (if needed) to meet the conditions of the installation. If at any time, you are not sure how to proceed, be sure to contact Nixalite and talk with a Customer Service Specialist. We can help guide you through your Bird-Zap Shock Track installation.

Step 1 - Position the Charger



Position the charger as close to the track as possible. While closer is better, the jumper wires that connect the charger to the track can be up to 550 feet long. Solar powered chargers must be positioned to capture as much sunlight as possible.

If positioned outside, install all plug-in chargers inside a NEMA 3R rated utility box (purchased separately). Use weatherproof outlets installed by licensed electricians for all outdoor plug-in chargers. Solar and battery powered chargers are weather resistant and require no additional protection.

Step 2 – Clean the surface

Clean and deodorize the installation surfaces with a surface sanitizer and disinfectant. If possible, pressure wash the entire area shortly before the installation. Make sure that the area is clean and dry before proceeding. If using adhesive for fastening, follow the surface preparation steps printed on the adhesive container.

Step 3 - Layout the Track

Dry fit the Bird-Zap track before installation. This can help you avoid unforeseen conditions and costly mistakes. Position the track on or close to where it will be installed on the surface, making sure the track follows the surface contours without creating gaps or wrinkles under the track. If you need to cut the track to length, leave it a couple inches longer than what is needed - you can always cut more off later. Mark the locations of all the connectors you will be installing and note the type of connector.



Step 4 - Using Quick Connectors

Quick Connectors make joining Bird-Zap track a quick and easy process. They come in 2 types; the **Straight Connectors (#ST SC)** and the **Corner Connectors (#ST CC)**.

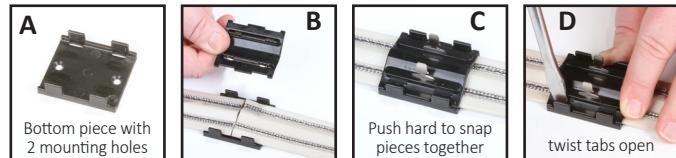
The Straight Connector (#ST SC)

This 2-piece connector joins two ends of Bird-Zap Track and/or connects power to a charger or to another track. The Straight Connector takes the place of the discontinued Quick Lock Down Connector.

To install; place the bottom piece of the connector on the surface (flat side down) where two tracks will meet end-to-end (**Figure A**). Fasten it to the surface with hardware (screws, nails, etc) or a quality adhesive. Place both ends of the Bird-Zap track in the bottom part of the connector. (**Figure B**). To help prevent short circuits, trim off any wire strands that have come loose from the braided stainless



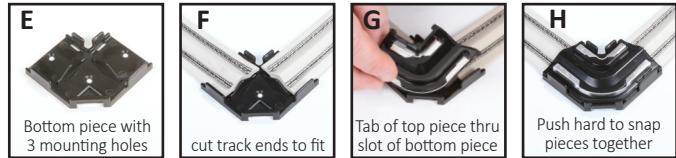
conductors. Lay the top half of the connector over the bottom half. Make sure the 'teeth' are lined up over the braided stainless conductors of both tracks and **press down hard** until all four tabs of the top half snap into the slots of the bottom half (**Figure C**). If the metal tabs on top will not be used, bend them outwards away from each other so they lie flat. To take apart the connector, use a flat-bladed screw driver to twist the tabs open (**Figure D**).



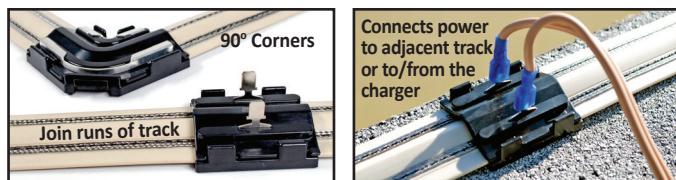
The Corner Connectors (#ST CC)

This 2-piece "L" shaped connector joins two ends of the Bird-Zap Track together at a 90° corner.

To install; place the bottom piece on the surface (flat side down) where two tracks will meet at a 90° corner (**Figure E**). Fasten it to the surface with hardware (screws, nails, etc) or a quality adhesive. Cut each Bird-Zap Track to the correct length and place both ends inside the bottom piece of the connector (**Figure F**). To help prevent short circuits, trim off any wire strands that have come loose from the braided stainless conductors. Insert the **hook shaped tab** of the top half of the Corner Connector into the matching slot of the bottom half of the connector (**Figure G**). This aligns the 'teeth' over the braided conductors of both tracks. **Press down hard** until all four tabs of the top half snaps into the slots of the bottom half (**Figure H**). To take apart the connector, use a flat bladed screw driver to twist the tabs open. Usually, freeing both tabs on one side is enough to separate the connector.



Quick Connector Details/Applications



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Making Connections with Standard 'Crimp' Connectors

Nixalite offers standard crimp-style connectors to make connections between individual runs of track or between the track and the track charger. A small quantity of crimp-style connectors are supplied with the track while larger quantities can be purchased as accessories.

Crimp-Style Connectors supplied with the track

- Straight crimp connectors (end to end) - 4 male/4 female
- Corner crimp connectors - 4 male/4 female

Additional Crimp Connector Kits (purchased separately)

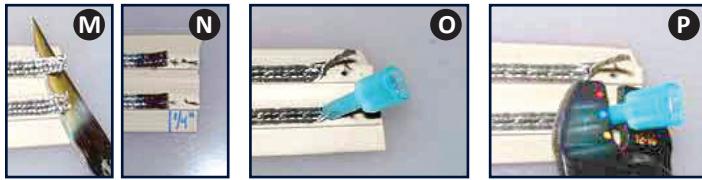
- Straight connection kit - 100 male / 100 female
- Corner connection kit - 100 male / 100 female
- "T" junction Kit - 100 male / 100 female

The "T" Junction Kit uses connectors that support the ability to splice into an existing track at a 90° angle. These can also be used in corner splices.

Making Connections with Crimp Connectors

Use the following steps when creating splice connections with crimp connectors.

Use a sharp knife to cut the stitching that holds the stainless braid to the Bird-Zap track base (figure M). Cut 1/2" of the braid free from the track. On one side of the track at a time, cut the 1/2" long braid back to 1/4" to allow room for the crimp connectors (figure N). Twist the braid into a wire shape and slide on the appropriate male or female connector on the end of the braided conductor (figure O). Using a Wire Crimping Tool, crimp the connection across the barrel of the connector as shown (figure P). Always use a Crimping Tool (#ST Crimp) to ensure a tight connection. Install and crimp the second connector. With both crimps in place, the track is ready to connect to another track, to the Jumper Wires or to the Charger.

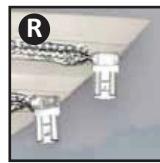


Creating Corners with Crimp Connectors

While the Bird-Zap Shock Track can make gentle side to side turns, it cannot go around corners without being cut and spliced. You can use the Quick Corner Connectors (page 1) or you can use the crimp connectors to create the corner. If you use the crimp connectors, use the following procedures to create a corner splice.

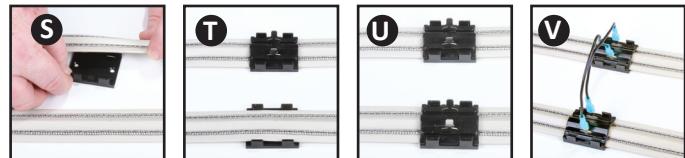
You will need to cut the Bird-Zap Tracks at a 45° angle. Make sure the two tracks meet at the outside corner so there are no gaps between the tracks. Follow the instructions for cutting the braid loose from the track as described under the *"Making Connections with Crimp Connectors"* heading. Once you have twisted the braid and are ready to crimp the connectors in place, use the following instructions.

At corners, use the 'Flag Connector' to splice together the stainless steel braids of the track (figure Q). Flag Connectors are supplied with each roll of track or they can be purchased separately in packs of 100. Use the very tip of the Crimping Tool to crimp these connectors tightly. Install the Flag Connectors on both braided conductors (figure R). Test the connections by lightly pulling on the end to insure that the connectors are secure. On the adjoining strip, install the appropriate female crimp connectors and join the two tracks together at the corner.



Step 5 – Using Jumper Wire & Quick Connectors

Quick connectors and Jumper Wire can be used to supply power to other areas of the installation and connect the system to the Track Charger. Using the instructions given on page 1, install the Straight Connector (#ST SC) at any point along the path of the track (figure S). If you want to power another part of the track installation, install another Straight Connector along the path of that part of the track installation (figure T). Complete the connector installation by snapping the top half onto the bottom half at both locations (figure U). Complete the connection by creating Jumper Wires (with female connectors at both ends of the wires) long enough to connect the 2 Straight Connectors (figure V).



Step 6 – Adhere to the surface

Apply adhesive to either the back of the Bird-Zap Shock Track or on the installation surface where the track will be positioned. Leave 2" gaps every 12" of adhesive bead to allow for rain water to drain off the surface under the installed track. Press the track down to the surface so the adhesive squeezes out towards the edges. **ALWAYS** read and follow the surface preparation and application instructions provided on the adhesive container or packaging!

Step 7 – Join the connectors

Press together all of the splice connectors. Be sure that the individual stainless steel braid stays separated from each other. If they get too close to each other, you will get a short in the system. If needed use adhesive to hold the connectors in place.

Step 8 – Track to Charger

The Bird-Zap Shock Track and the charger unit are connected using the copper dual lead Jumper Wire. This special highly insulated wire is available separately in several colors to match your needs. To connect the wire, simply strip the ends of the dual leads and connect the ring connector to one end and the appropriate male or female connector to attach the wire to the track.



Step 9 – Warning Signs

If the Bird-Zap Shock Track installation is in a place where people might come into direct contact, you will need to install the available warning signs.

WARNING!
High Voltage Bird Shock System Installed

If you have any questions - Contact Nixalite

Bird-Zap Shock Track is a component system and there are many different ways to assemble the different components to create the bird control that best suits your application. If you have any questions or need advice on how to assemble your Bird-Zap Shock Track installation, please contact Nixalite of America Inc and talk with our bird control professionals.

ALWAYS Read, Understand & Follow Installation Instructions. Bird-Zap Shock Track is an active deterrent system and will require regularly scheduled inspections and maintenance. If you have any questions or comments, please contact Nixalite at 800.624.1189 or visit our website at www.nixalite.com



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