



SUNCATCHER RECTANGLE W/SINGLE GABLE ROOF ASSEMBLY INSTRUCTIONS

GETTING ORGANIZED

Video: SCA001 <https://youtu.be/ZeijUJQ3N-k>

TOOLS NEEDED

- Phillips Head Screwdriver
- 7/16" regular wrench

HELPFUL TOOLS TO HAVE

- Power screwdriver or drill with a Phillips Head bit and a square drive bit, to remove screws from shipping crate - **not to assemble the Suncatcher**
- A utility knife or a pair of scissors for removing packing materials
- A step ladder
- Rubber or plastic mallet
- Regular flat black Rust-Oleum spray paint to cover any scratches in power coating that may occur when handling the parts of the cage.

BASIC TIPS AND ADVICE

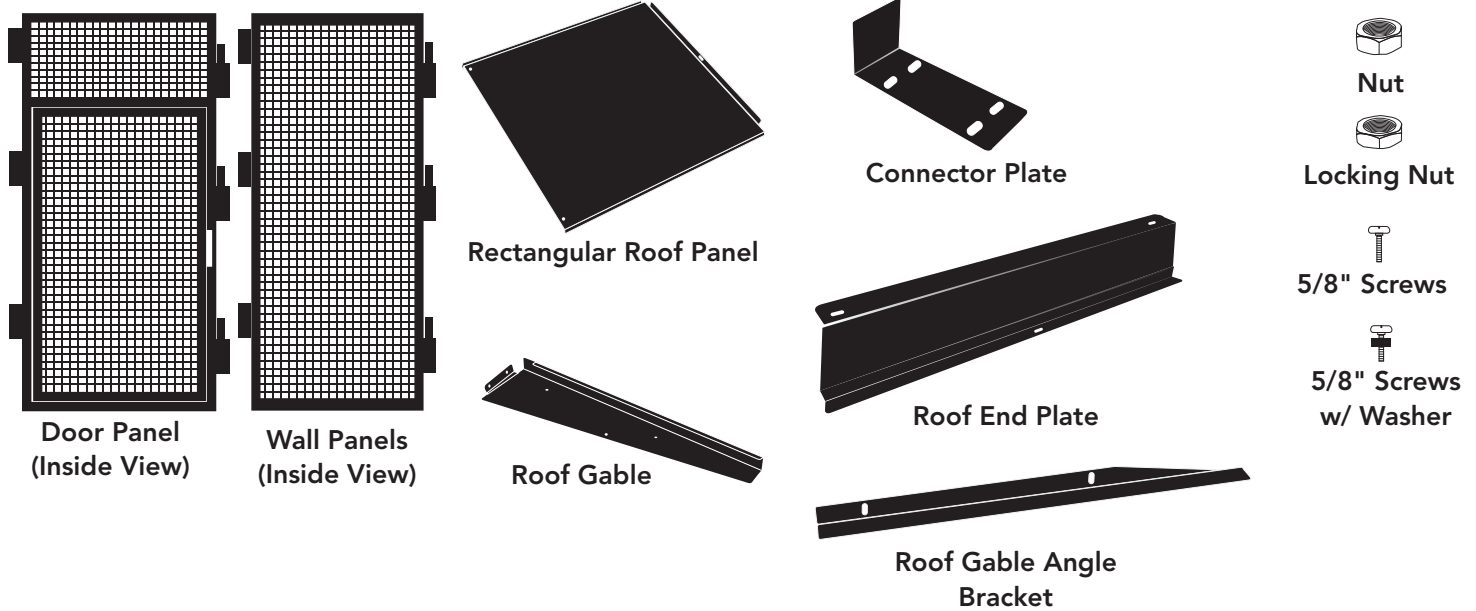
- The Suncatcher enclosure is engineered to be easily assembled by two people. Two people are necessary to assemble the cage so that one person can hold parts in place while the other secures the parts with screws and bolts.
- Thoroughly read through instructions before starting.
- Complete the assembly steps in the order that they are presented.
- Choose a level place to set the cage and build the cage in the location where it will be set.
- Collect all the tools that you will need.
- Unpack the shipping crate and take an inventory of the enclosure parts. The exact type and number of parts may be different depending on the size of the cage and the accessories you ordered. Refer to the packing list for the complete inventory.
- Unpack and place all the parts near where the enclosure will be located.
- Do not use a drill or power screw driver to seat the screws. Over tightening may damage parts or overheat screws and nuts.
- Do not let the stainless steel hardware pieces get too hot. Heat makes them expand and difficult to install.
- In order for all the parts of a Suncatcher enclosure to be assembled in their correct positions it is very important that the parts be able to move a bit while they are being put together. Therefore do not tighten any nuts or screws completely until the end of assembly.
- The nuts with locking nylon inserts must not be tightened further than just getting them into the screws before the final tightening of the cage. Once the locking nuts are tightened, they are very hard to loosen or remove.
- Don't be alarmed if you have leftover hardware when you are done.

RECEIVING & UNPACKING

Video: SCA002 https://youtu.be/AAbgdc_gmKM

- Your Suncatcher enclosure will be shipped in a large crate. Use a Phillips head screwdriver to remove the outside panels of the crate. If it is necessary to remove any of the crate support lumber a square-drive bit will be needed to remove the interior screws.
- Unpack the crate before taking inventory. Take care to not scratch the powder coated parts.
- Remove any protective packing materials and lay the parts out where they are easily accessible and can be seen.
- You should have all the parts listed on your packing list enclosed with your unit. All Suncatcher enclosures have the same basic parts, but the numbers and size of each may vary depending on upon the size of the cage.
- Small parts can be easily lost in packaging so carefully look through all packaging.

PARTS LIST



If you have problems with assembly, or are missing parts, you can call (920) 886-1220 ext. 15 or email CustCagesContact@aol.com
 We are open 9:00 am – 4:30 pm CST Monday through Friday.

STEP 1 Assembly of Door & Side Panels

Video SCA003 <https://youtu.be/pjgX8RF6rgQ>

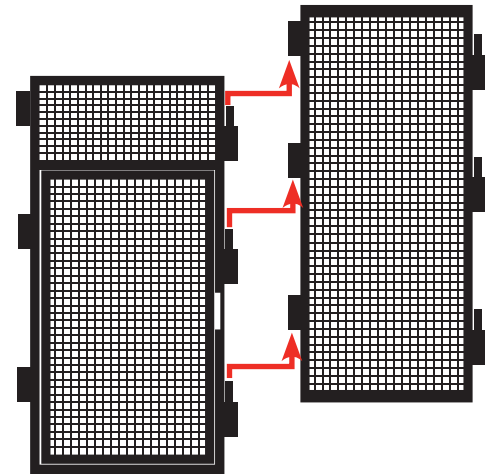
- Locate the door panel. The top of the panel will have threaded bolt holes in the center. The outside of the panel will have one bolt hole and the inside of the door panel will have two bolt holes.
- Looking from the inside of the panel, the left side will have round tubular hinges without pins. The right hand side round tubular hinges will have stainless steel pins which face up.
- Locate a side panel. The top of the side panel has one bolt hole on the outside and 2 bolt holes on the inside, just like the door panel. The position of the hinges on the side panel are also the same as the door panel.

While one person holds the door panel upright, a second person can line up the left hand (from the inside) hinges on a side panel over the right side hinge pins of the door panel.

Illustration 1

- Insert the top of the center hinge pin first, because it is slightly longer than the upper and lower pins, but **DO NOT** push it down.
- Line-up the upper and lower hinges on the side panel over the pins on the door panel. Once they are in place, apply pressure to seat the pins fully into the hinges. Gently swinging the panel back and forth will help to seat the pins. If seating the pins is difficult, use a rubber or plastic mallet to gently tap on the top corner of the side panel frame. **Do not tap on the center of the frame.**
- Continue putting the side panels in place until the ring of panels is complete.
- The left side hinges on the door panel will be seated onto the right side pins of the last side panel.
- Gently pull and push the side panels of the cage until the shape is roughly symmetrical.

Illustration 1



STEP 2 Roof Supports

Video SCA004 <https://youtu.be/80euz3T8MFA>

- Pre-assemble the roof gables and angle brackets by positioning the angle bracket on the inside of the gable with the flat, narrow end of the bracket parallel with the top flange of the gable and pointing towards the narrow end of the gable. There are left and right side gables and angle brackets, and they will only fit together correctly left+left and right+right. Secure the angle bracket to the gable using a 5/8" screw and locking nut, with the locking nut against the angle bracket. **DO NOT COMPLETELY TIGHTEN THE LOCKING NUTS.** *Illustration 2*
- Attach the gables to the tops of the wall/door panels on the outside of the ends of the cage with the flat side of the gables facing out of the cage. Use a 5/8" screw with washer through the bottom hole on the gable into the threaded insert in the top of the wall/door panel. There will be one gable over each end of the cage. The narrow end of the gable will be the low side of the roof. **DO NOT COMPLETELY TIGHTEN THE SCREWS.** *Illustration 3*
- Attach the end plates to the outside top of each wall/door panel that will be under the high side of the roof. Use a 5/8" screw with washer through the bottom hole on the end plate into the threaded insert in the top of the wall/door panel. **DO NOT COMPLETELY TIGHTEN THE SCREWS.** *Illustration 4*
- From the inside of the cage, tie each of the adjacent end plates together with a connector plate using four 5/8" screws inserted through the holes in the end plate and connector plate from outside the cage and secure the screws with locking nuts inside the cage. **TIGHTEN THE NUTS FIRMLY ENOUGH SO THAT THE END PLATES ARE LIKE A SOLID UNIT** *Illustration 5*
- Use more screws, locking nuts and connector plates to tie the ends of the outer-most end plates to the flanges on the wide ends of each roof gable. **TIGHTEN THE NUTS FIRMLY ENOUGH SO THAT THE HIGH CORNERS OF THE GABLE AND END PLATES ARE LIKE A SOLID UNIT.** *Illustration 6*

Illustration 2

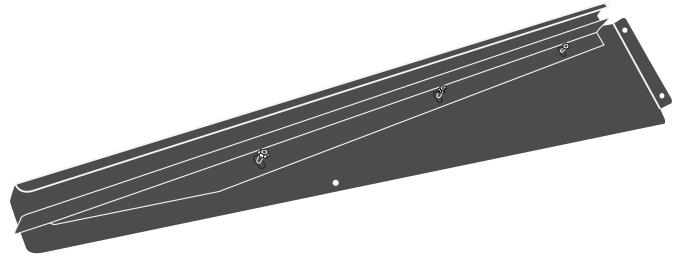


Illustration 3

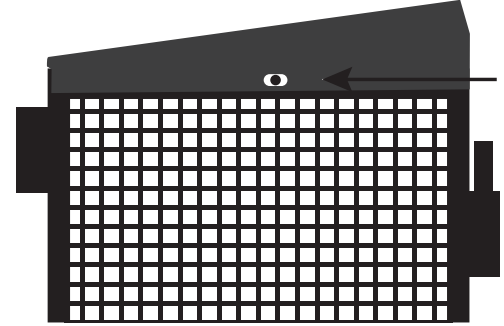


Illustration 4

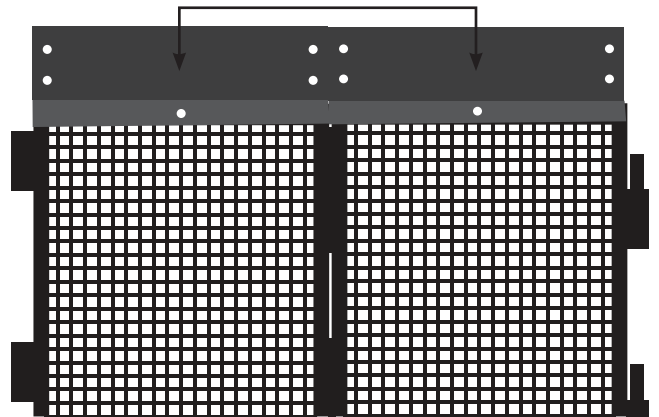


Illustration 5

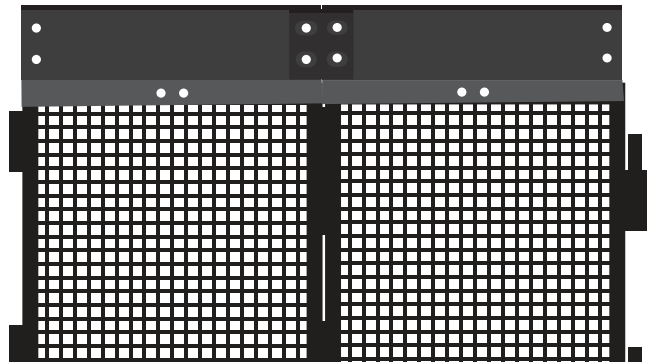
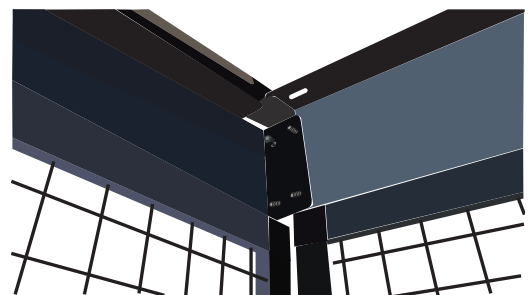


Illustration 6



STEP 3: Roof Panels & Roof Peak

Video SCA005 <https://youtu.be/JuVQH36E7F4>

- Locate a roof panel. The top edge of the panel is flat; the left edge is bent into a downward-facing channel; the bottom edge has a downward flange with a screw hole in the middle; and the right edge is has an upward flange. *Illustration 7*
- Facing the side of the cage with the low end of the roof, install the first roof panel on the left end of the roof by inserting the left edge of the roof panel between the gable angle bracket and top edge of the gable, then slide the roof panel up to the end plate. The top edge of the roof panel will sit on top of the end plate, and the bottom edge of the roof panel will be secured to the top of the wall/door panel with a screw w/ washer. **DO NOT COMPLETELY TIGHTEN THE SCREW.** *Illustration 8*
- Install the rest of the panels of the roof from left to right, with the channel on the left edge of each panel overlapping the flange on the right side of the panel installed before it. The right edge of the last panel installed will slide between the gable angle bracket and top of the gable on the right side of the roof. *Illustration 7*
- Insert a 5/8" screw without a washer through the holes in the top corners of the roof panels through the holes in the top ends of the end plates and secure them with locking nuts inside the cage. **DO NOT COMPLETELY TIGHTEN THE LOCKING NUTS.** *Illustration 9.*

STEP 4: Tightening & Finishing

Video SCA006 <https://youtu.be/LKBP-JmZJIA>

- Inspect all of the connection points in the cage. Make sure that they are aligned correctly and can slightly move, except for the connections between the end plates which should be relatively solid. If any connection points are misaligned, gently adjust the parts around them until they can move.
- The tightening process will start outside the cage and finish inside. **DO NOT OVER TIGHTEN.** Just snug is tight enough. To tighten the locking nuts inside the cage, one person will be inside holding the locking nut with the wrench while the other person is outside the cage tightening the screw with the screwdriver. The tightening sequence is:
 1. Tighten the screws at the tops of the wall/door panels outside the cage.
 2. Tighten all the locking nuts connecting the roof panels and the end plates.
 3. Two people will work together to tighten the connection between the gables and the gable angle brackets. One person will hold the locking nuts in place with a wrench while pushing the angle bracket up so that the edge of the roof panel is as snug as possible against the top of the gable. The other person will tighten the screw from the outside of the cage. *Illustration 10*
- Inspect all the fasteners outside and inside the cage to make sure that they are snug.

Illustration 7

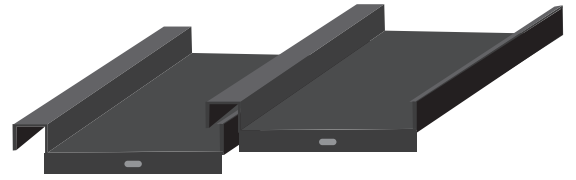


Illustration 8

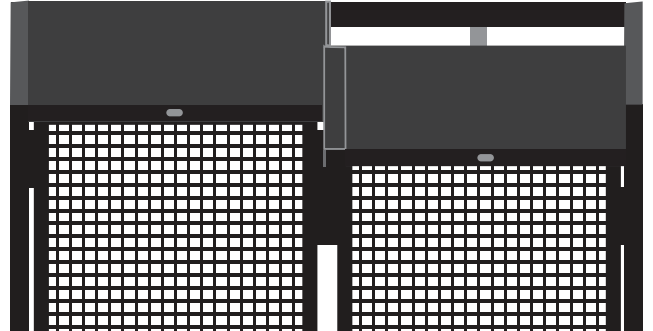


Illustration 9



Illustration 10

