

# ASSEMBLY INSTRUCTIONS

## 8' x 6' x 31" DELUXE COLD FRAME G-80-SP

**Please make sure your kit includes all of the following parts before beginning construction.**

If you have any questions or concerns before beginning the assembly of your cold frame, please give us a call at our toll free number 1-877-476-5399.

You will need a Variable Speed Drill, Clear PVC Glue, 100% Silicone Caulking, and a Sharp Knife.

### PARTS LIST

#### BOX 1 lbs.

- \_\_\_ 1 - 8' H-Channel
- \_\_\_ 4 - 49 1/2" U-Trim
- \_\_\_ 5 - 94" PVC pipes - White
- \_\_\_ 2 - 92" Composite Tubing - Red
- \_\_\_ 1 - 92" PVC pipes - Red
- \_\_\_ 3 - 67 1/2" Composite Tubing - Green
- \_\_\_ 2 - 46" PVC pipes - Red
- \_\_\_ 2 - 27 1/4" PVC pipes - Blue
- \_\_\_ 5 - 10" PVC Pipes - 1/2" diameter
- \_\_\_ 2 - 4" Composite Tubing - White

#### Bag #1 g

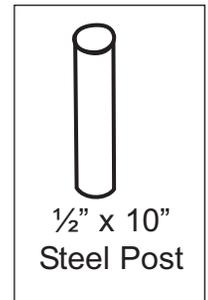
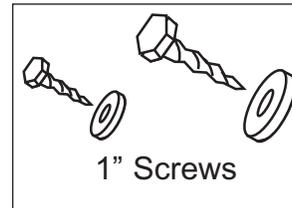
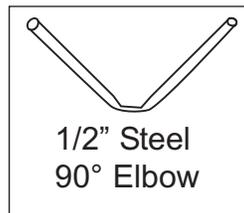
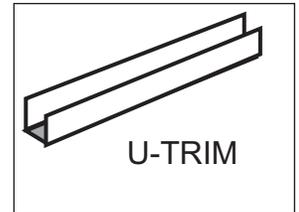
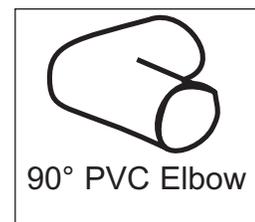
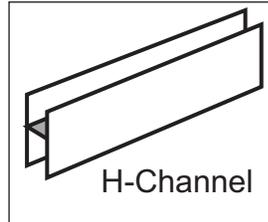
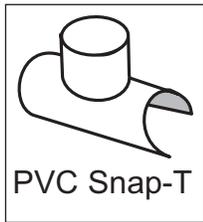
- \_\_\_ 12 - PVC snap-T's
- \_\_\_ 2 - 90° PVC Elbows
- \_\_\_ 2 - PVC End Caps
- \_\_\_ 1 - 1/4" Driver
- \_\_\_ 12 - 1" Drill Screws
- \_\_\_ 130 - 1" Screws

#### Bag #2 g

- \_\_\_ 6 - Large Zip Ties
- \_\_\_ 16 - Small Phillips Screws
- \_\_\_ 4 - 1/2" Steel - 90° Elbows
- \_\_\_ 4 - Punched 1/2" X 10" Steel Posts
- \_\_\_ 4 - 1/4" x 1 1/4" Machine Screws
- \_\_\_ 4 - 1/4" Nuts
- \_\_\_ 2 - Conduit Clamps **with** Bolts and Nuts
- \_\_\_ 2 - Conduit Clamps **no** Bolts and Nuts
- \_\_\_ 1 - Metal Handle

#### BOX 2 - Roll of Plastic

- \_\_\_ 2 - 49 1/2" x 97 1/2" 5mm Panels
- \_\_\_ 2 - 31" x 72" 5mm Panels



<b>Packed</b> <b>by:</b> _____ <b>Date:</b> _____
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# I. BASE FRAME

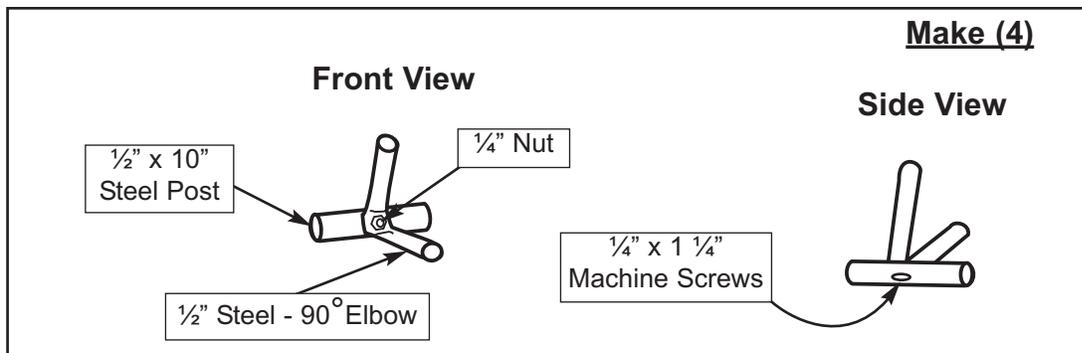
## Materials:

- |   |                          |
|---|--------------------------|
| 2 - 92" <u>Composite Tubing</u> - Red       | 4 - 1/4" Nuts            |
| 3 - 67 1/2" <u>Composite Tubing</u> - Green | 12 - <u>PVC snap-T's</u> |
| 4 - 1/2" Steel - 90° Elbows                 | 8 - 1" Drill Screws      |
| 4 - 1/2" x 10" Steel Posts                  | 2 - 1" Screws            |
| 4 - 1/4" x 1 1/4" Machine Screws            |                          |

**\*\*HINT:** To install a snap-T: Use any short PVC pipe (As illustrated to the right.) in the top of the snap-T. Start to insert one side of the snap-T onto the tube. Then while pushing down, step on the otherside of the snap-T. Be careful! snap-T's can pinch and cause blood blisters if you use your hands.



## Step 1: Assemble Corner Posts

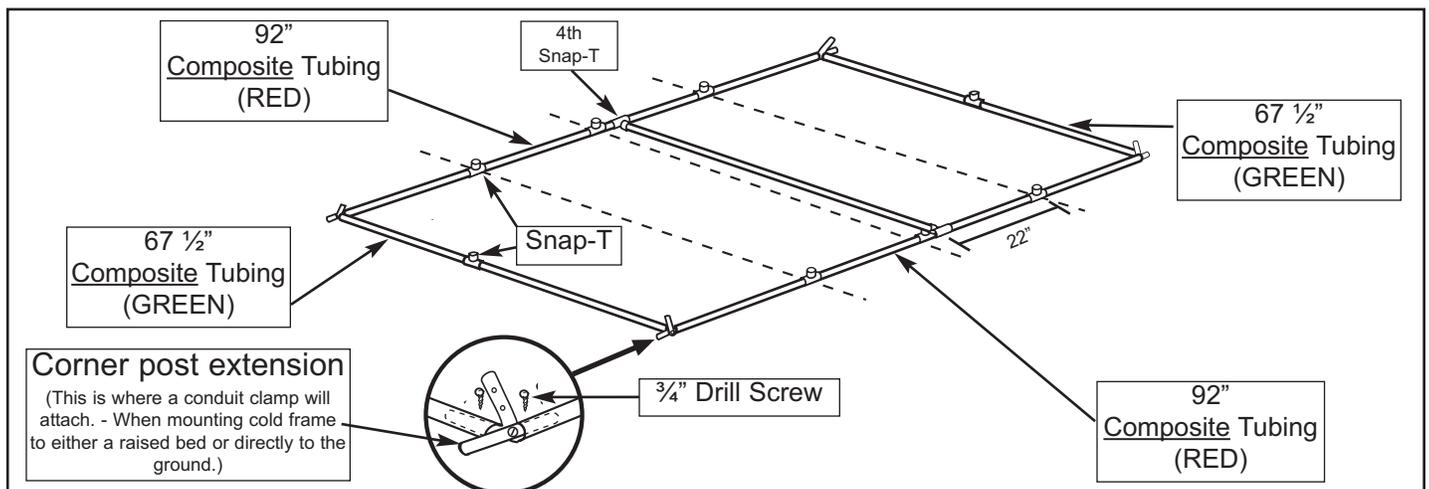


**Step 2:** Attach 3 snap-T's on to both 92" Composite Tubes - RED, equal distance from each other- about 22" apart. Attach a 4<sup>th</sup> snap-T next to the center snap-T. - This will be used for the center, cross support bar.

**Step 3:** Attach the 8" side of a corner post assembly to both ends (One at each end) of both 92" tubes and secure with 1" Drill Screws. - **NOTE:** Some people find it easier to pre-drill the holes.

**Step 4:** Attach 1 snap-T to the center of each 67 1/2" Composite Tube - GREEN.

**Step 5:** Attach a 67 1/2" Composite Tube - GREEN to each corner post on the 92" Composite Tube - RED from Step 3 to make a rectangle base frame.



## II. END & TOP RIDGE FRAME:

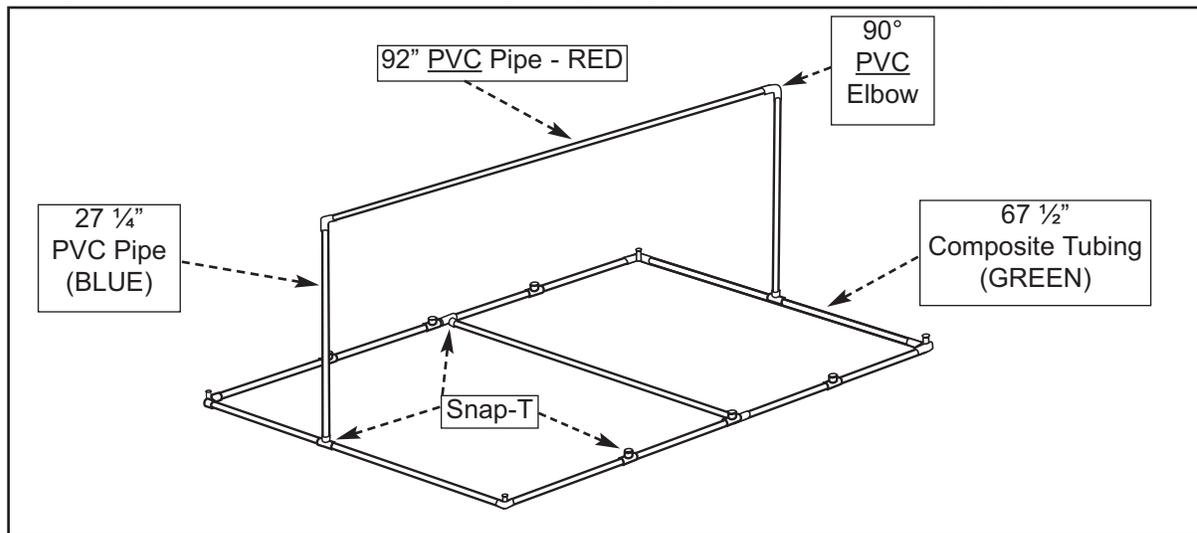
### Materials:

- 1 - 92" PVC Pipe - Red
- 2 - 27 1/4" PVC Pipe - Blue
- 2 - 90° PVC Elbows

**Step 1:** Glue one 27 1/4" PVC pipe - blue into the snap-T on the center of both 67 1/2" PVC pipes - green.

**Step 2:** Make the top ridge support by gluing a 90° PVC Elbow to both ends of the 92" PVC pipe - red.  
Hint: **Make sure the elbows are not twisted by placing open ends of Elbows on a flat surface.**

**Step 3:** Glue the open ends of the Elbows (on the Top Ridge Support) to the 27 1/4" PVC pipes - blue.



## III. RIBS

### A. RIB ASSEMBLIES

#### Materials:

- 5 - 10" PVC Pipes - 1/2" diameter
- 5 - 1" Screws
- 5 - 94" PVC Pipes - White
- 1 - 49" U-Trim

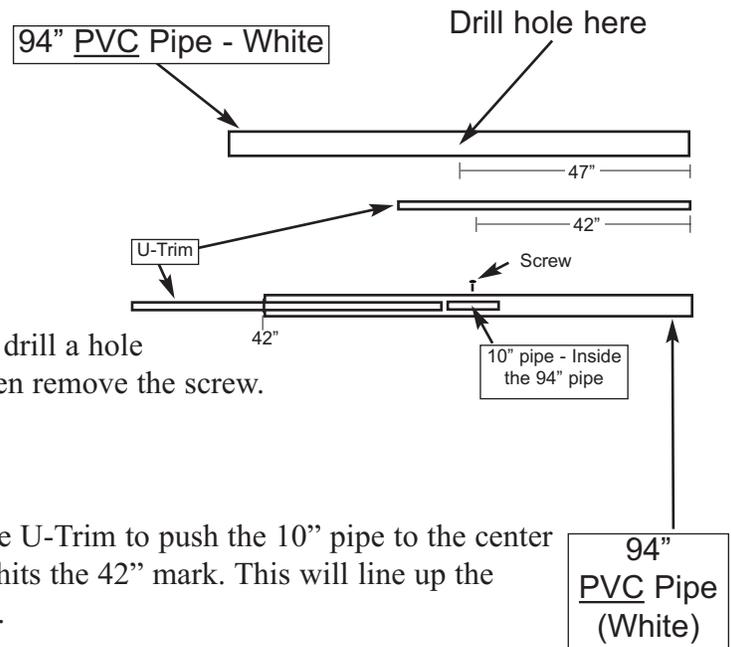
**Step 1:** Mark the center of a 94" PVC pipe - white (47") and drill a hole through one side of the pipe using a 1" Screw and then remove the screw.

**Step 2:** Mark a piece of U-Trim with a pencil at 42".

**Step 3:** Insert a 10" pipe into a 94" PVC pipe - white. Use the U-Trim to push the 10" pipe to the center of the 94" PVC pipe - white. Push until the U-Trim hits the 42" mark. This will line up the center of the 10" tube with the center of the 94" tube.

**Step 4:** Put a 1" Screw through the hole in the 94" pipe and into the 10" pipe. Remove the U-Trim.

**Step 5:** Repeat for remaining 94" PVC pipes - white.



## **B. RIB ATTACHMENT**

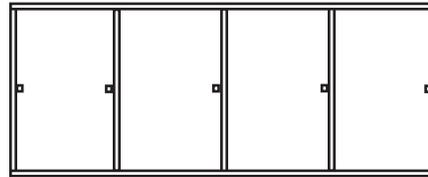
### **Materials:**

**5 - Rib assemblies (made in Step III-A)**

**4 - 1" Drill Screws**

**6 - Large Zip Ties**

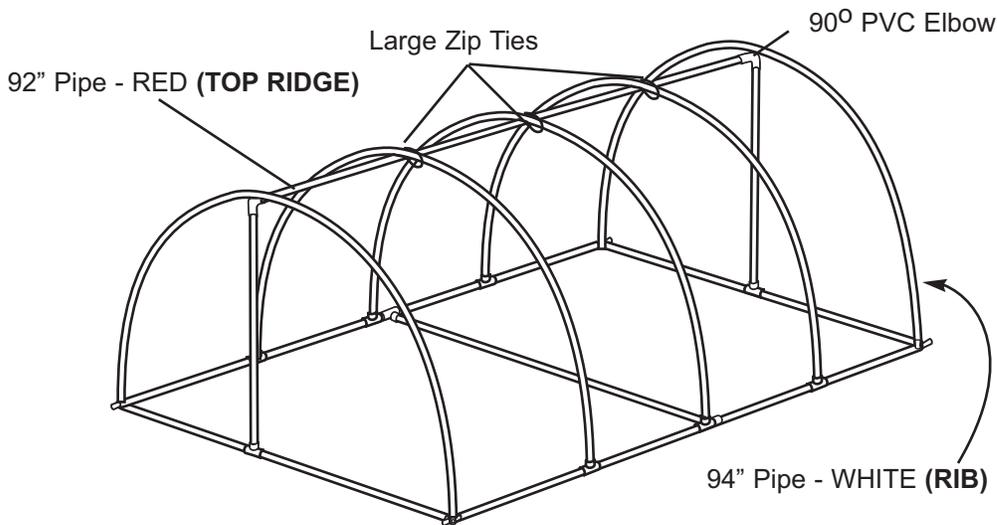
Top view of Ribs and  
screw directions



**Step 1:** Glue one end of each Rib Assembly (94" White) into each of the 3 snap-T's on one side of the base frame. Be sure the pipes seat all the way down into the snap-T's. **Make sure the screws face to the side so they will not be in the way of the paneling.**

**Step 2:** Slide the remaining two Rib Assemblies over the steel corner posts. Bend each corner post to about a 60° angle to accommodate the arch. Attach pipe to the steel corner post with 1" Drill Screw.

**Step 3:** Attach the opposite end of each of the five Rib Assemblies to the corresponding corner post or glue to the snap-T on the opposite side of the base frame.



**Step 4:** Use two Large Zip Ties to secure each of the three middle ribs to the Top Ridge. Criss-cross the Zip Ties going around the Rib and the Top Ridge (Zip Ties will make an X). Trim ends of Zip Ties.

## IV. LEG ATTACHMENTS

(See figure A on the next page)

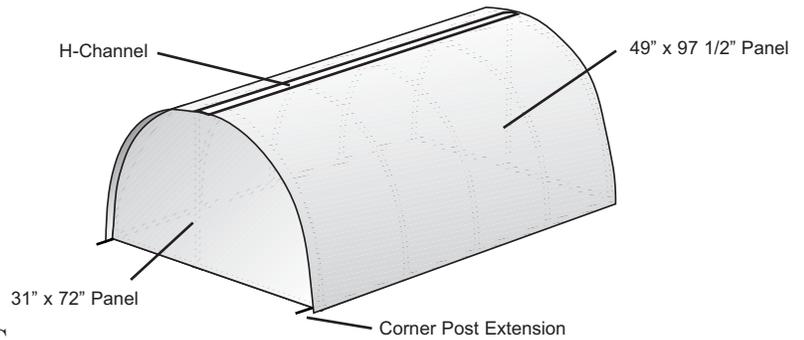
### Materials:

- 2 - 46" PVC Pipes - Red
- 2 - PVC Snap-T's
- 2 - PVC End Caps
- 2 - Conduit Clamps no bolts and nuts
- 2 - 1" Screws

**Step 1:** Glue one End Cap to the end of both 46" PVC pipe - Red.

**Step 2:** Position 1 snap-T next to the 2nd rib and another snap-T next to the 4th rib on one side of the base frame.

**Step 3:** Glue the open end of each 46" PVC pipe - red into the 2 snap-T's to complete the legs. Swing the legs up into the cold frame until they hit the Top Ridge frame. Where they hit the top Ridge frame you will want to screw a conduit clamp at that location so it will catch the leg when you are not using them. You may need to widen the conduit clamp. (See fig. B on next page at bottom)



## V. PANEL ATTACHMENT

### Materials:

- 2 - 49 1/2" x 97 1/2" 5mm Panels
- 2 - 31" x 72" 5mm Panels
- 1 - 8' H-Channel
- 4 - U-Trim
- 1" - Screws
- 16 - Small Phillips Screws
- 2 - Conduit Clamps with bolts and nuts
- 1 - Metal Handle
- 1 - Tube of 100% Silicone Caulking
- 2 - 4" Composite Tubing - White

**Step 1:** Attach a 31" x 72" panel to each end of the cold frame. Use a knife to notch out a hole in the plastic around the Corner Post Extension pipes on all four corners. Attach 1" Screws about 9" apart on curved pipe. Place at least 6 1" Screws into base pipe and two 1" Screws on each 27 1/4" vertical pipe. With a sharp knife, trim the plastic along the curved rib pipe, using the pipe as a guide. Insert caulk into exposed flutes.

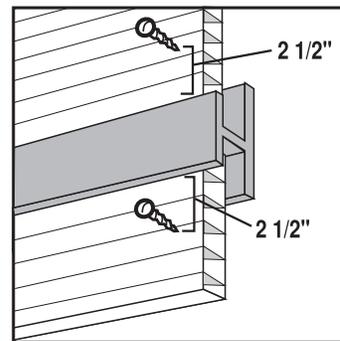
**Step 2:** Attach one 49 1/2" x 97 1/2" panel to the ribs on one side lining up panel so there is equal overhang on both ends (don't cut off excess material) and the long edge of the panel is parallel to top ridge. Attach with 1" Screws.

**Step 3:** Attach 2nd panel, leaving 1/4" between the 2 panels. You may need to trim one panel.

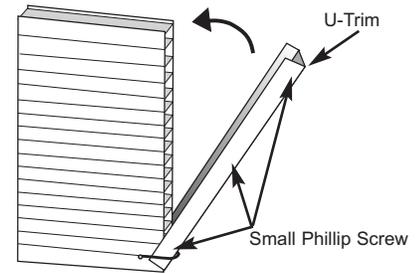
**Step 4:** Slide in 8' H-Channel between the two panels. If H-Channel is difficult to slide on, spray grooves with Pam Vegetable Oil.

**Step 5:** Insert Silicone caulking into the open ends of the flutes. Attach a 49 1/2" U-Trim to the 49 1/2" ends of the panels where the flutes are open. You will secure the U-Trim with small phillips screws. Place small phillips screws about one foot apart.

**Step 6:** Secure cold frame by anchoring the back two corner posts to either a raised bed with the conduit clamps (Included) or directly to the ground with tie down kit HN-14 (available through your Solexx™ dealer). Slide



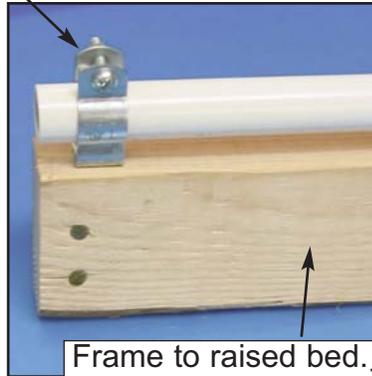
Place screws approx. 2 1/2" on both sides of H-Channel, this will secure H-Channel and allow for expansion and contraction.



Secure U-Trim with small phillips screws. Puncturing a small hole in the U-Trim with a small nail or small ice pick. This makes it easier to put the screw into the U-Trim.

the 4" Composite Tubing - White Over the metal arm of the back Metal corner posts. Then screw the conduit clamp to your wood frame. Pop the arm with the 4" composite tube on it, into the conduit clamp and then insert the screw and nut and tighten down. Repeat for other side. To get maximum solar energy and retention of heat, keep lid closed. Open lid when the sun is direct and warm to vent the cold frame and to harden off seedlings prior to planting outside.

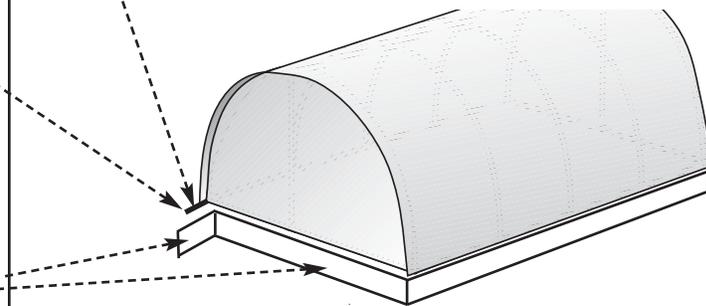
Conduit Clamp



Frame to raised bed.

Attaching Cold Frame to Raised bed.

Slide the 4" Composite Tubing - White Over the metal arm of the back Metal post.



Securing Cold Frame directly to the ground

Anchor Kit (HN-14) If purchased



Slide the 4" Composite tube onto the metal arm so that it sits between the metal arm and the conduit clamp, so that it is not metal on metal. This will act as a bushing and smoothly open and shut

Screw anchor into ground. Attach conduit clamp to eye of anchor and attach to back corner post. (Tighten bolt and nut). One anchor on each side of the cold frame.

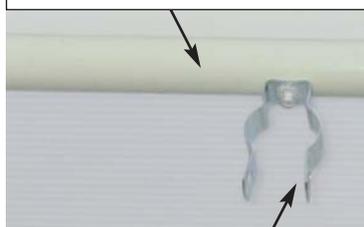
Side of back corner post

**Step 7.** Attach metal handle to front of cold frame. Attach on bottom frame in the middle. Over the snap-T that the middle rib attaches to.

## IV. LEG ATTACHMENTS

(From Page 5)

Top Ridge Frame Top Inside of Cold Frame



Conduit Clamp (No bolt and nut)

FIGURE B



Inside Cold Frame Conduit Clamp catches leg when not in use.

Deluxe Cold Frame with 5mm panels (G-80-SP)

Fig. A

