



# Sunshine GardenHouse

## GardenHouse Assembly Instructions

### GKP812 Model

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Sunshine GardenHouse

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An 8' x 12' **level work** space is needed so the GardenHouse will be squarely built and the panels will join tightly. However, due to wood inconsistencies and the natural moisture in redwood, some adjustments may be necessary to fit redwood panels. You may need to untighten brackets slightly for better fit.

The Standard Building Code states that "a greenhouse with wood frame construction shall be located not less than 5 feet from an adjoining structure or property line" (Section 502, Greenhouses). Your local building code may vary, so check with local building officials.

All major components of the kit are panelized so that you and a helper can assemble the GardenHouse in a day or two. A second person is essential to position the panels.

The GardenHouse kit comes in seven boxes.

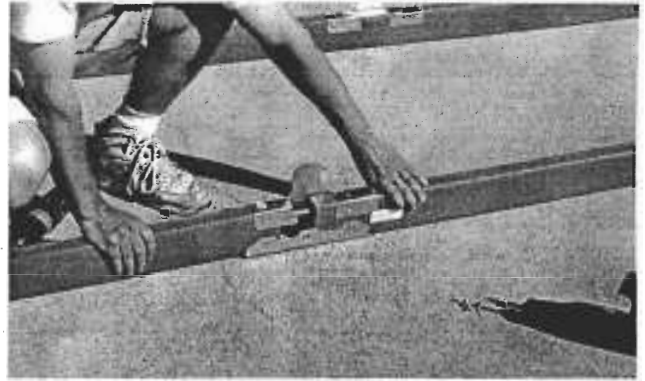
#### TOOLS REQUIRED

- \* Screw gun or variable speed drill with Phillips drive bit. All screws are supplied.
- \* 6' stepladder
- \* Hammer
- \* 16' tape measure
- \* Optional: 5 tubes (10.1 oz each) of silicone-based clear caulk. Use this to seal joints, to provide additional protection against wind-driven rain or very cold climates. This type of caulk adheres well to redwood and the glazing panels.

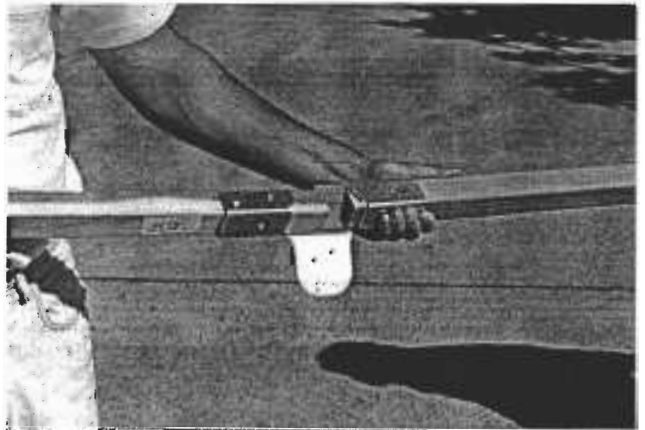
Redwood is naturally resistant to moisture and insect damage, and will fade to a silver gray over time unless treated. If you seal or paint the wood, use a water based product. Acetone or Ketone products may damage the glazing.

#### PRE-ASSEMBLY

#### 12 FOOT LENGTHS



**From Box #4 & 6:** Attach side base parts using 1-1/4" screws. Match parts "A" together and parts "B" together.



**From Box #4 & 5:** Attach side wall top plate parts using 1-1/4" screws. Match parts "A" and parts "B".

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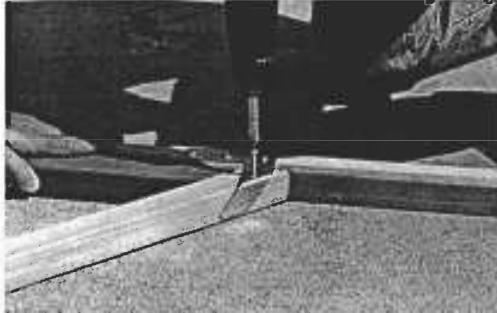
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#### ROOF TRUSS

##### From Box #5

Layout two **rafters** and a **truss** as shown. Attach one rafter to the truss through the connector using two 1-1/4" screws.



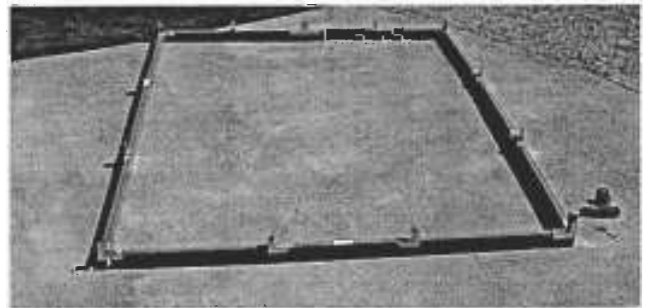
Then use a 2-1/2" screw through the pre-drilled hole in the rafter. Turn the assembly over and repeat on the other side.

Repeat this procedure to make a total of five roof trusses.

#### BASE

##### From Box #4 & 6

Use 1-1/4" screws to attach the two **side wall bases**, **front wall base** and **back wall base** to each other. The face of the connectors where the door will be located on the front wall should be inside the GardenHouse. The face of the center connector on the back wall base should be on the inside also.



Use the **stub block (located in Box #4)** when installing each corner connector so space is left for the corner posts.

Check that the base is square by measuring from corner to corner in both diagonal directions. If the measurements are not equal, push on the longer dimension until they are equal.





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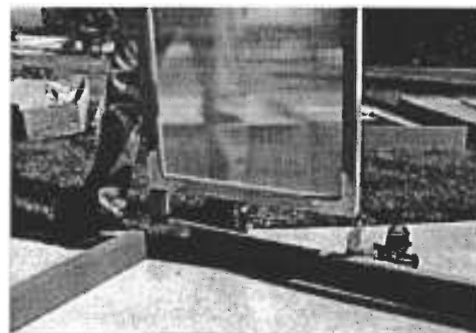
#### BACK WALL

##### From Box #3

Place the two back wall panels on the back wall base with the panel connectors facing inside. Slide the corner posts into their corners.

**Do not drive screws into the taped connector holes. Screws in the taped holes will create unwanted space between panels.**

Drive 1-1/4" screws into the **untaped** connector holes at the base.



#### FRONT WALL

##### From Box #6

Place the **front wall panels** on the front wall base with the panel connectors facing inside.

Drive 1-1/4" screws into the **untaped** connector holes at the base.



#### SIDE WALL TOP PLATES

##### From Box #4 & 5

With a helper, attach the **side wall top plates** between the front wall and back wall using 1-1/4" screws.

Stagger the 8' top plate above, where the 4' is located at base. See joint location diagram.

Drive screws into the **untaped** holes only.

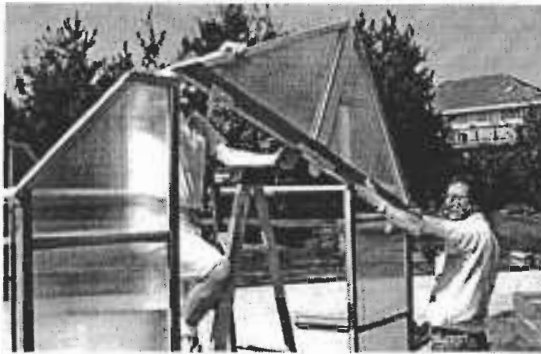
Sagging is normal and expected when installing the side wall top plate. This will be straightened up later in the assembly



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#### TOP BACK & FRONT PANELS From Box #5

With a helper, attach the top back and front panels with the ridge connector facing in, using 1-1/4" screws.

Align the panels along the roof line.



Drive 2-1/2" screws through pre-drilled holes at the roof line joint.



Note: Prop open front door before installing top panel; it makes it easier.

#### BACK WALL STUD From Box #3

To position the back wall stud at the center of the wall and centered on its connectors, use the "spacer" (box 5) at the top and bottom of a back wall panel.



Attach the stud through the connectors using 3/4" screws.



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#### ROOF

##### From Box #4



(If not already done at the factory, rest the **ridge front** and **ridge back** pieces on the side wall top plate with the connectors pointing down. With the ends of the ridge flush with the ends of the top plate, mark with a pencil on the inside of the top plate at the front of each connector.)

Position a roof truss at the center mark on the top plate. Align the front edge of the truss with the mark and attach it from the inside using 3/4" screws through the **untaped holes only**.



Rest the **ridge front** onto the front wall and center truss. With the ridge flush with the front wall, attach it through the connectors using 1-1/4" screws.

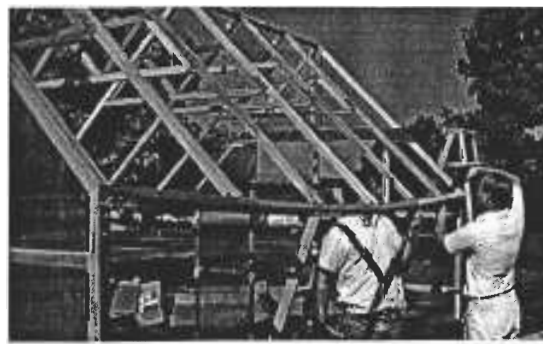


Slide the **ridge back** into the center truss connector and resting on the back wall. With the ridge flush with the back wall, attach through the connectors using 1-1/4" screws.



Seat the remaining four trusses fully into the connectors. Attach them to the ridge using 1-1/4" screws, and to the side wall top plates using 3/4" screws through the **untaped** holes.

The sag in the ridge and top plates is natural for now.



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#### SIDE WALLS

From Box #1 & 5



All side wall panels are identical. Position a side wall with the connectors on the inside and the metal angle on the top.

Drive 2-1/2" screws into the two **pre-drilled** holes at the corner.



Drive 1-1/4" screws through connectors on the outside, lifting any sag from the top plate.



Position the second side wall panel at the edge of the first panel. Drive 2-1/2" screws halfway into two **pre-drilled** holes along this joint.

Position a third panel, driving 2-1/2" screws halfway into two **pre-drilled** holes at the corner.



Swing the "halfway connected" second and third panels inward and press them together into alignment with the base.

Use four 2-1/2" screws to attach them through the **pre-drilled** holes along the joint. Finish driving all the "halfway" screws in completely.

Fasten the center connectors on the outside of the wall with 1-1/4" screws.

Repeat this procedure for the other sidewall panels.





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#### BACK VENT PANELS

From Box #3

Ask a helper to slide a **back vent panel** snugly up into position so the vent swings out freely at the base.

Attach the top of the panel from the inside using one 2-1/2" screw through the pre-drilled hole.

Then attach the sides using four 2-1/2" screws through the pre-drilled holes.

Repeat for the second back vent panel.

*NOTE: If the top plates and ridge do not appear level now, check the building for squareness and adjust as needed. Roof panels will not fit properly if the building is not square and level.*



#### ROOF PANELS - VENTED SIDE

From Box #2 & 7

**SUGGESTION:** It is generally preferable to locate the roof vents on the side of the roof away from the prevailing summer wind, so rising warm air is drawn out as wind moves over the GardenHouse. As hot air is exhausted at the roof, cooler air is drawn in through the lower vents on the back wall.



The vented side of the roof must be attached before the unvented side.

From the side of the GardenHouse, lift the **front 2' panel** above the ridge near the front wall and let it slide down until the metal angles rest on the ridge.

Position the panel to overhang the front wall 3/4". Secure the panel with 2-1/2" screws through the six pre-drilled holes.





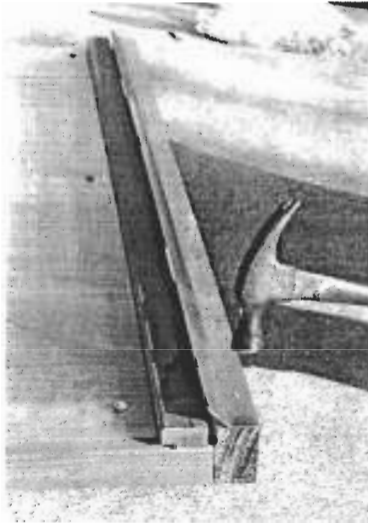
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#### ROOF PANELS - VENTED SIDE (cont.)



Attach vent flashing to the top edge of the **vented roof panels** using 2# nails through the four holes.

With a helper, lift a vented roof panel above the ridge and let it slide down until the metal angles rest on the ridge. Slide the panel against the front roof panel and secure it using 2-1/2" screws through the six **pre-drilled** holes along the sides and one in the center.

Position the other vented roof panel against the first one and attach it the same way.

Attach the **back 2' roof panel** the same as you did the front 2' roof panel. It will overhang the back wall 3/4".

#### ROOF PANELS - UNVENTED SIDE From Box #2

With a helper, lift the **front 4' roof panel** above the ridge and let it slide down until the ridge flashing rests on the ridge of the other side of the roof.

Position the panel to overhang the front wall 3/4". Secure the panel with 2-1/2" screws through the six **pre-drilled** holes along the sides and one in the center.



Repeat this procedure for the **center roof panel** and the **back roof panel**. The back panel will overhang the back wall 3/4".



From the inside the GardenHouse, secure the unvented panels using 2-1/2" screws through the three **pre-drilled** holes in the ridge.



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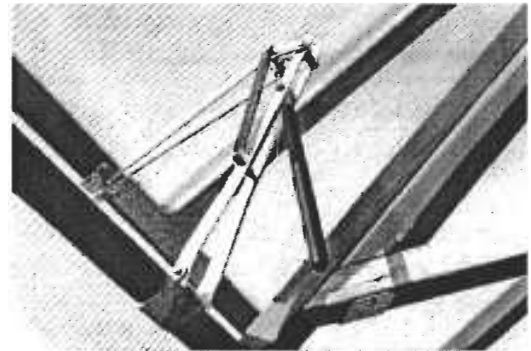
#### AUTOMATIC VENT OPERATORS

From Box #4

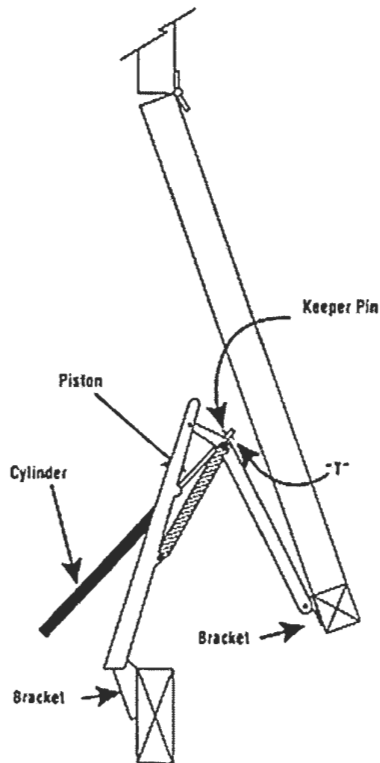
**SUGGESTION:** Installing the black cylinder into the operator arms is easier if you refrigerate for an hour (**don't freeze**) the black cylinder before attachment. You can easily push the piston into the black cylinder when the paraffin has contracted in the colder temperature.



Position a vent operator near the center of a roof vent along side a truss with one bracket on the vent frame bottom and one on the adjacent roof panel blocking. Attach the two brackets using four 1-1/4" screws.



Place the piston of the cylinder through the housing (the threaded bolt) and into the "T" with the "T" pointing away from the cylinder. Remove the plastic in the "T".



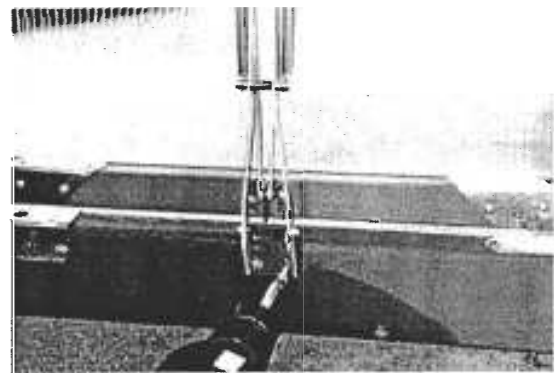
Align the hole in the "T" with the outermost hole in the piston and push the keeper pin through both.

Screw the cylinder into the housing so threads are about equal on both sides of the housing.

Follow the same procedure for the other roof vent operator.

Position the base vent operators at the center of the back wall vents.

Attach the same way as the roof vent operators.



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#### DOOR & VENT WIND STOPS From Box #3

Attach the stops  
around the door and  
base vents as shown.



#### DOOR HARD- WARE From Box #4

Attach the door pull  
and barrel bolt.



### ANCHORING

Anchor the greenhouse to the ground at each corner. Purchase anchors based on your particular site conditions and attach them to the base after driving them into the ground. In windy areas, we recommend embedding stakes into poured concrete and attaching them to the base.



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**Congratulations!** You've completed your Sunshine GardenHouse.

We are very interested to hear about your GardenHouse experience. Please send us your owner's registration form so that we can keep you updated on any special information.

A shade cloth kit, a comprehensive new book for greenhouse gardeners, and a growing choice of GardenHouse accessories are available. Please give us a call at 888-272-9333.



#### Optional Bench Kit

Get the optimum use from your GardenHouse with the specially designed GKP812 Bench kit. Made of clear-grade, dried redwood to match your GardenHouse, it easily attaches to the house frame.

To purchase the GKP812 Bench kit, order from your local GardenHouse dealer or contact us direct at Sunshine GardenHouse, 888-272-9333.



Visit our home page at [www.gardenhouse.com](http://www.gardenhouse.com) or send us an email at [greenthumb@gardenhouse.com](mailto:greenthumb@gardenhouse.com)