



MONTICELLO GREENHOUSE

OPTIONAL IRRIGATION SYSTEM INSTALLATION MANUAL



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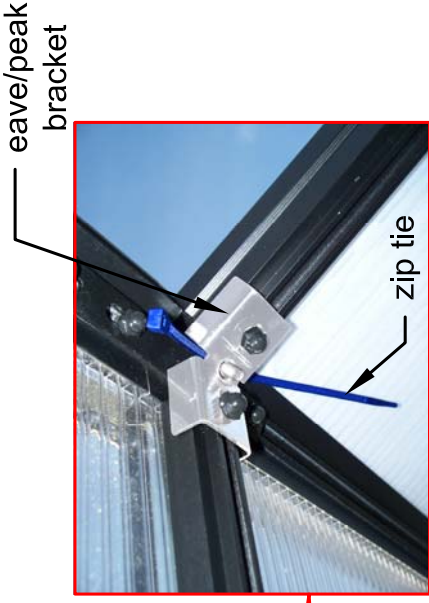
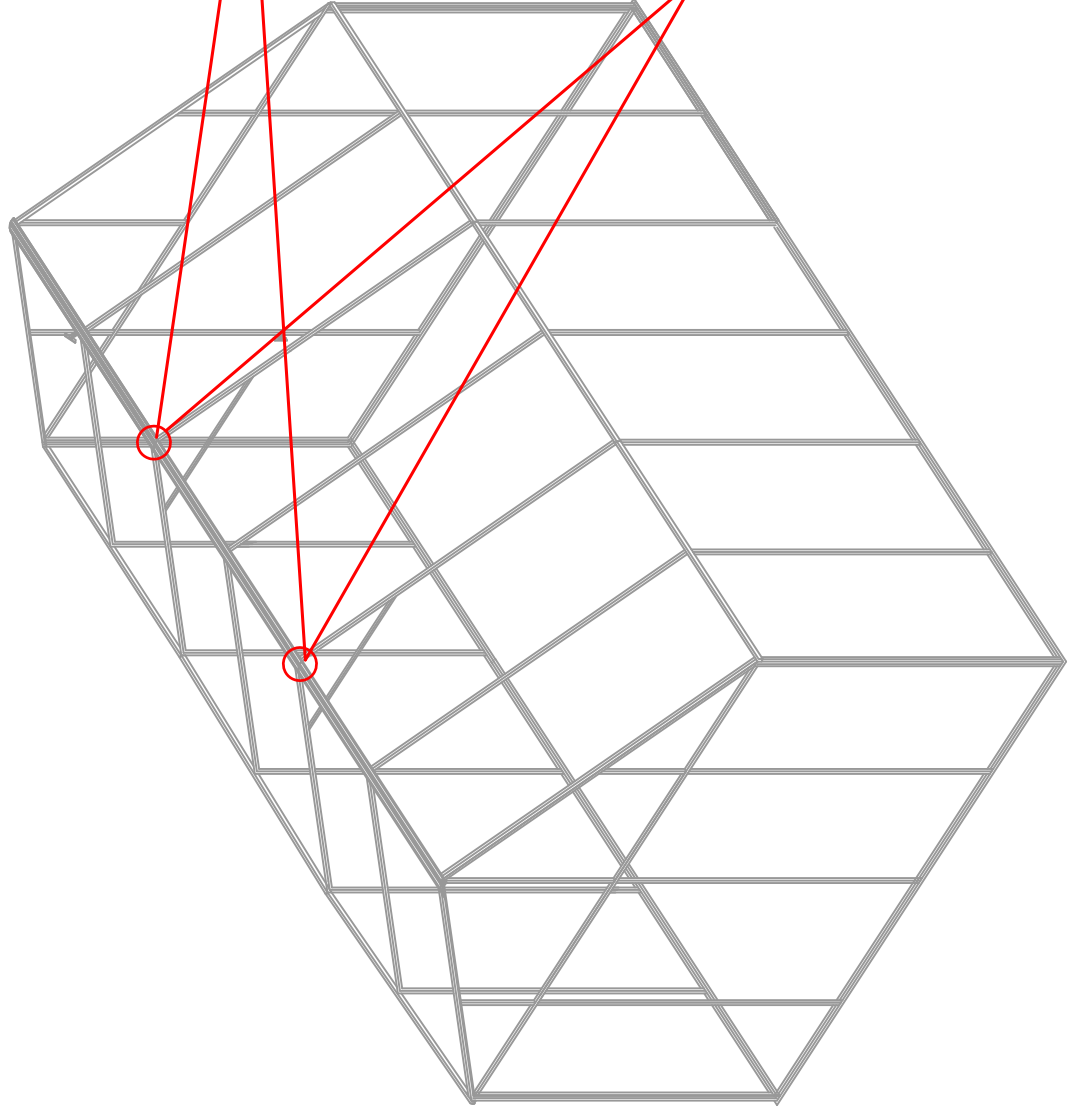
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IRRIGATION - Part List

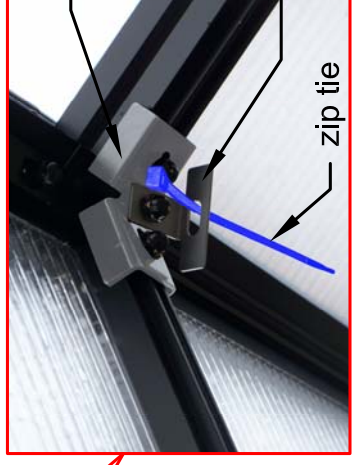
	8' x 8'	8' x 12'	8' x 16'	8' x 20'	8' x 24'
White Hose	12'	16'	20'	24'	28'
Line End Plug	1	1	1	1	1
12" Mister w/ Tip	1	2	3	4	5
Threaded Line End	1	1	1	1	1
Brass Hose Adapter	1	1	1	1	1
B-3 Bracket	2	2	2	2	2
Zip Ties	4	5	6	7	8
Set Screw Assemblies	2	3	4	5	6
Programmable Timer	1	1	1	1	1

This illustration shows the **Eave/Peak bracket (B-4)** located at the peak of the greenhouse, where the optional Irrigation System and optional Shade Cloth System attach.

If you have the optional shade system use the zip ties provided to attach the irrigation to the existing B-3 brackets shown in photo labeled (with shade system), otherwise attach irrigation directly to the eave/peak bracket as shown in photo labeled (without shade system)



(without shade system)

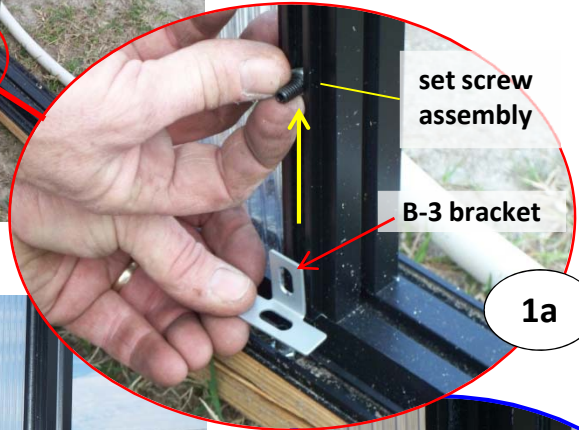
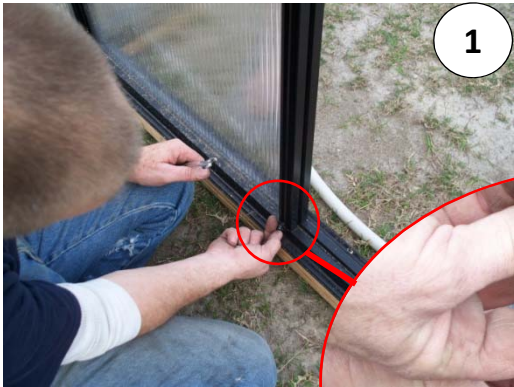


B-3 bracket for shade system application

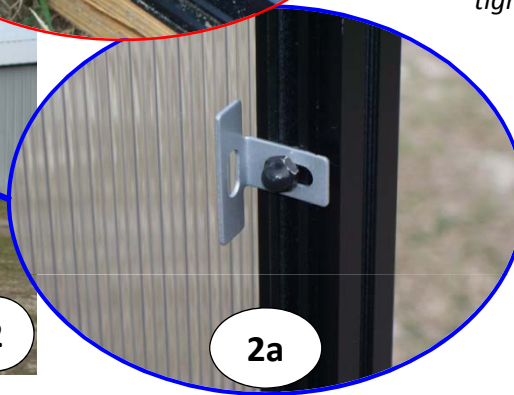
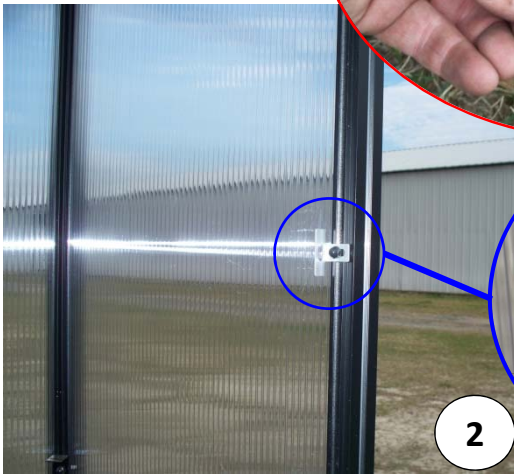
(with shade system)

SOME PARTS SHOWN IN SILVER ARE USED ONLY TO CONTRAST FROM THE BLACK FINISH OF THE GREENHOUSE IN THIS MANUAL. *The views on this page are from inside the greenhouse and facing the door.*

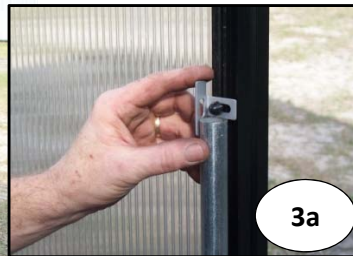
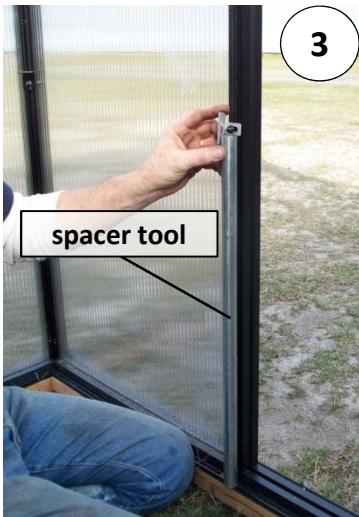
The Irrigation System can be installed on the left or right side of the door (*inside view*). This manual shows installing on the left side of the door.



STEP 1:
On the left side of the door frame, at the bottom **photo 1**, remove the existing B-3 bracket shown in silver **photo 1a**. Next slide the set screw assembly shown in **photo 1a** up the door frame approximately center of the door frame. *This location is temporary, hand tighten the set screw assembly to keep it in place for now.*



STEP 2:
Place the B-3 bracket that was removed in Step 1 onto the set screw assembly as shown in **photos 2 & 2a**.



STEP 3:
With the bracket and set screw assembly being loose, use the provided glazing spacer tool (included in standard greenhouse package) shown in **photo 3** to properly space the **bottom** of the B-3 bracket (**photo 3a**) from the **top** of the base rail (**photo 3b**).



Next, tighten the set screw assembly.

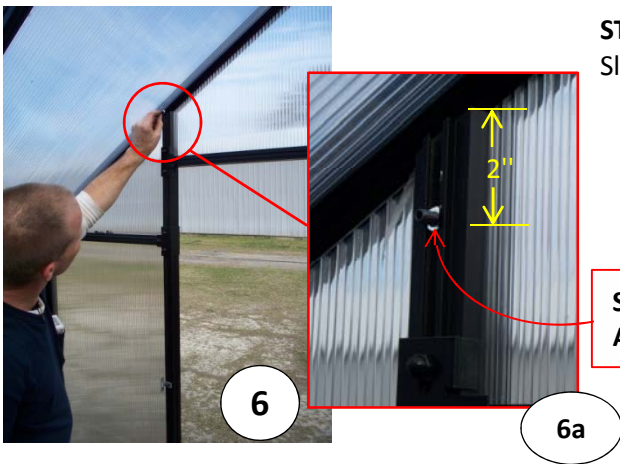
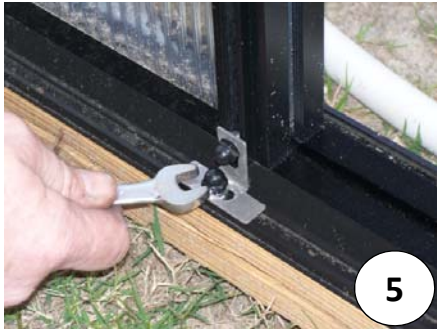


The views on this page are inside the greenhouse and facing the door.

STEP: 4

Insert a new set screw assembly into the track of the door frame **photo 4**. Slide set screw upward and place B-3 bracket onto set screw assembly **photo 5**.

Tighten set screw assembly

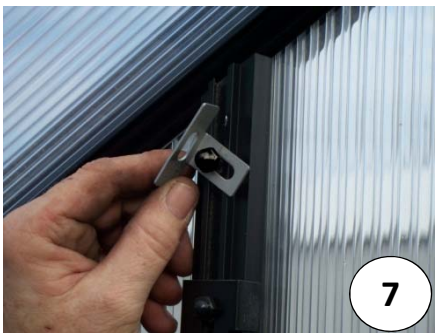


STEP: 5

Slide a set screw assembly photo 6 (shown in yellowish color **photo 6a**) downward into the track approximately 2" at the top of the door frame.

STEP 6:

Place B-3 bracket onto the set screw assembly, position the bracket parallel to the pitch or slope of the roof. Tighten set screw assembly. **photo 7**



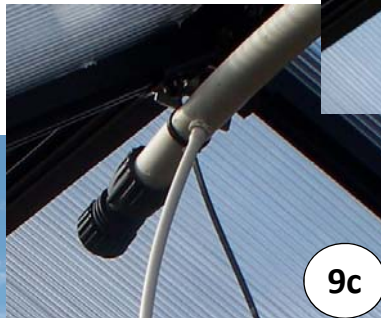


The views on this page are from the inside of greenhouse and facing the back wall.

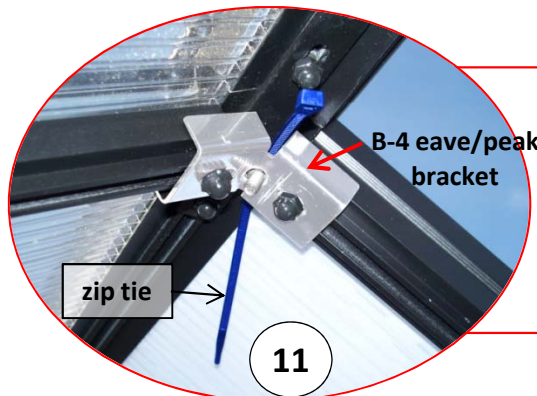
STEP: 7

Locate the irrigation hose. Lay the hose on top of the *roof truss braces B-9* as shown in **photo 8**. The end of the hose that is "capped off" needs to point in the direction opposite the door.

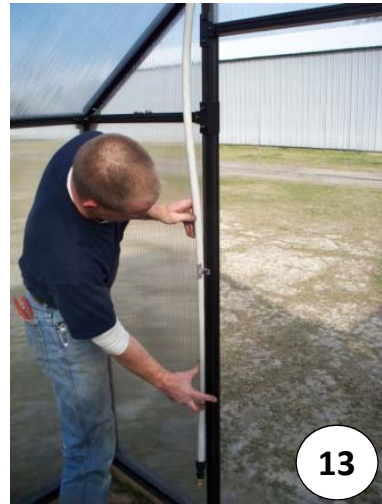
Attach the hose at the peak of the greenhouse using the supplied zip ties. **Photo 9** shows the first attachment point; over the last roof truss brace. Insert the zip tie through the B-3 bracket **photo 9a** and secure the irrigation hose firmly **photos 9b, 9c**. *If you do not have the optional Shade Cloth System installed then you will not be able to attach the zip ties to the B-3 bracket. see **photo 11** at bottom of page.*



Continue attaching the hose above each roof truss bracket. **photo 10**



Without Shade System: Insert the zip tie (shown in blue for contrast) behind the eave/peak bracket and secure the hose firmly.



The views on this page are from the inside of greenhouse and facing the door.

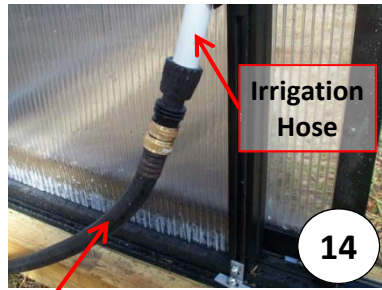
STEP: 8

After attaching the hose to the roof truss bracket nearest to the door, guide the hose toward the left side of the door frame and attach to the B-3 bracket that was installed in Steps 5 & 6 **photo12 & 12a**.

Next, attach the hose using zip ties to the B-3 bracket from Step 2 **photo 13**.

STEP: 9

Connect a water hose to the end of the irrigation hose. Locate the Irrigation Controller(*provided*). Connect the controller to the other end of the water hose, then connect the controller to a nearby water faucet.



Water Hose
(supplied by others)



Instructions for setting the controller are provided in the back of this manual and also in the packaging of the controller.

SINGLE-PORT DIGITAL TIMER



INSTALLING THE BATTERIES

- Remove the tray on the back of the timer by sliding it out.
- Insert two AA (1.5V) alkaline batteries (not included) and replace the tray.
- Replace batteries when low battery icon appears.

Note:

Used up or dead batteries must be removed from the timer and disposed of properly. Batteries must be removed from the timer at the end of the watering season and replaced with new ones at the beginning of the next watering season.

INSTALLATION

Attach timer to an outdoor hose faucet and turn on after programming.

PROGRAMMING THE TIMER

- Rotate the dial to positions indicated for setup.

SET CLOCK

- Press the + button to advance clock time (hold button for quick advance).
- Press the - button to reverse clock time (hold button for quick reverse).

START TIME

- Press the + button to advance start time (hold button for quick advance).
- Press the - button to reverse start time (hold button for quick reverse).

HOW LONG

Set watering duration from 1 to 240 minutes using the + and - buttons.

HOW OFTEN

Set watering frequency as every 6 hrs, 12 hrs, or from 1 to 7 days using the + and - buttons. 1 is every day, 2 is every other day etc. up to 7 days.

AUTO

Timer waters according to programmed time, duration, and frequency.

RAIN DELAY

- When in **AUTO**, press + button for 24 hrs, 48 hrs, or 72 hrs.
- Screen will flash between clock and hours remaining before programmed cycle resumes.
- To remove rain delay, turn dial to **OFF** and then back to **AUTO**.

MANUAL/HAND WATERING

To water without interrupting the set cycle, press [MANUAL] button and then use + and - buttons to set from 1 to 240 minutes.

- To remove manual watering (turn off), turn dial to **OFF**.
- To resume programmed cycle turn the dial back to **AUTO**.

TROUBLESHOOTING

Water does not come on at desired time.

Check if:

- Clock is set to correct time including AM and PM.
- Start time is set to desired time including AM and PM.
- Rain Delay is on.

Timer does not water.

Check if:

- Timer is set to **AUTO**.
- Hose faucet is on.
- Batteries are low.
- Clock is set to correct time including AM and PM.
- Rain Delay is on.

Water won't turn off.

Check if:

- Watering duration is set to desired time.

Working Water Pressure

Minimum: 25 psi Maximum: 100 psi

Working Temperature

Maximum: Do not exceed 120 degrees F
Minimum: Keep from freezing

Warnings

For outdoor use with cold water only.



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