

## **GARDEN IRRIGATION - WRITTEN INSTRUCTIONS: \*\***

**Option:** If you want to add a Y connector, add it before the timer, then, connect the timer to one side of the Y connector; and add a 10'-12' hose to the other side. Do not get a 20' hose; it's too much to store inside of your bed.

**Note:** Please use white plumber's tape to the thread of all the screw on connections to prevent future leaks.

1. Proceed to attach Timer to the hose bib/ aka faucet or to your Y connector.
2. Attach the Hose End fitting, using the Power-Lok style, to a short piece of the 1/2 inch poly tubing. Hold the poly assembly up to the timer to determine a suitable length (trim to fit) --- (This should fit just above the soil line); attach an L Power-Lok fitting to your assembly. Connect the Hose end fitting to the faucet. Adjust to the direction you want for the layout of the poly tubing in the bed.
5. Attach the figure 8 to poly tubing --- place one half of the 8 over the tubing, push it about 4" down, then bend the end of the tubing toward the 8, push the other half of the 8 over the end of the tubing.
6. Stretch out the poly tubing, use ground staples to hold everything straight. Extend poly tubing up to the front end of the garden bed; cut off at the corner; install an L connector; add a short piece of poly tubing to reach from the corner of the garden bed to the position just below the timer.
7. Complete the connections by making sure both L connectors are securely fastened to the poly tubing. (one on tubing below the faucet and the other on tubing extending to the corner)
8. Cut 4 foot lengths of the 1/4 inch drip lines to fit across the bed (Cut between the drip emitters - do not cut into a drip emitter). Attach a goof plug to one end and add a 1/4 inch barb connector to the other end. There is enough drip line to make 12, 4ft pieces. Space them about 9 inches apart (allow 4-6" from each end of the box so that water does not run down the inside edge of the box)
9. Use the proper punch tool to punch a hole (in the appropriate placement) in the side of the poly tubing; Push the end with the barbed connector into the hole. Note: one method is to do all the punching from the top of the poly line, insert the drip lines --- then turn the entire assembly on its side so that the drip lines are lying on top of the soil.
10. Use the U shaped ground stakes to hold all your lines in place -- eventually the sun will warm and relax the curl in all of the lines. **Please no rocks in the beds.**

Leased beds will be supplied with: Faucet/ hose bib, DIG Timer (instruction sheet is on garden website, go to site, print a copy), Irrigation lines and connectors, 3 wire hoops, shade cover.

## **PROBLEMS IN THE IRRIGATION SYSTEM**

If you see a problem --- water leaking all over or spraying into the air --- please turn off the faucet at the source of the problem and call a garden manager. Phone numbers are always posted on the garden bulletin board.

**NEVER ATTEMPT TO TEMPORARILY REPAIR AN IRRIGATION CONNECTION WITH TAPE, ELECTRICAL TAPE, DUCT TAPE, OR ANY OTHER TYPE OF TAPE. It does not work. The water will find a way to leak through.**

**NEVER ATTEMPT TO REMOVE THE FAUCET FROM YOUR GARDEN BED. IF THERE IS A PROBLEM WITH THE FAUCET, CONTACT ONE OF THE GARDEN MANAGERS. WATER HAS TO BE SHUT OFF AT THE GATE VALVE BEFORE A FAUCET CAN BE CHANGED.**

WHEN TO USE AN IN-LINE CONNECTOR – if you accidentally cut a drip line while gardening you can use a barbed connector --- the type that is connecting the drip line into the poly pipe. If the drip line is damaged by a chewing critter (rabbit or rats usually do this), causing extensive damage, it might be easier to install a new drip line. See Joy Hubbard or one of the other garden managers. We have spare parts in the shed for sale \$2.00 for a 4ft line with a connector; you can reuse the goof plug.

WHEN TO USE AN IN-LINE COUPLER for the poly tube – if the poly tube gets cut by a shovel or damaged, while working in the garden it can generally be repaired using an in-line coupler to join the two pieces of the poly tube together. The garden generally has a couple of these couplers available --- the cost is \$5 each.

**FACT** – as the drip emitter drops water into the soil, the water spreads downward and outward through capillary action. Each emitter is wetting an area about 6-8” in diameter. So the 6’ spacing between emitters is actually overlapping. If your drip lines are 9 inches apart, the emitters are still overlapping in the distribution of water as the water penetrates downward through the soil.

**\*\* ONE OF THE FIRST THINGS YOU WILL HAVE TO DO IN YOUR NEW GARDEN BED IS TO PAINT THE WATER RISER --- THE PIECE OF PVC PIPE EXTENDING OUT OF YOUR GARDEN BED THAT THE TIMER WILL BE ATTACHED TO. THE GARDEN HAS THE PAINT AND THE BRUSHES. PLEASE DO THIS FIRST BEFORE ANY OTHER ACTIVITY. PUT THE LID BACK ON THE CONTAINER AND CLEAN THE BRUSH FOR THE NEXT PERSON.**