WATERING

Watering Recommendation:

Example: Shrubs up to 4 feet high we recommend 2 gallons per day in the summer. The recommended flow rate can be achieved using 2, 1-GPH drip emitters. These guidelines are suitable for most areas and soils.

Note: Plants larger than 2 feet in diameter should have more than 1-drip emitter per plant to cover the plants root zone.

Watering Time:

Run the system 45 minutes to 3 hours every 2-5 days, depending on your location (cool to warm) and soil type. After a week check the soil, the health of the plants, and adjust the watering time as needed.

KIT CONTAINS

1–3/4 in. Backflow preventer with FHTxMHT	1–1/2 in. Tee	2–1/4 in. Barbs
1–3/4 in. FHT preset pressure regulator at 25 PSI	20–1 GPH PC drippers	1–1/4 in. Ball Valve
1–3/4 in. FHT swivel adapter with screen	2–2 GPH PC drippers	5–Micro tubing holder stakes
50 ft.–1/2 in. Polyethylene tubing .600 ID x .700 OD	2–4 GPH PC drippers	2–Goof plugs
50 ft.– 1/4 in. Micro tubing	3–1/2 in. Tubing holder stakes	1–Hole punch
1–1/2 in. Hose connector	2–1/4 in. Tees	2–Figure “8” hose ends

3 YEAR WARRANTY

DIG CORPORATION warrants these products to be free from defects in material and workmanship for a period of three years from date of purchase. This warranty does not cover damage resulting from accident, misuse, neglect, modification, improper installation or subjection to line pressure in excess of 50 PSI. This warranty shall extend only to the original purchaser of the product for use by the purchaser. This warranty shall not cover batteries or any malfunction of the product due to battery failure. The obligation of DIG CORPORATION under this warranty is limited to repairing or replacing at its factory this product which shall be returned to the factory within two years after the original purchase and which on examination is found to contain defects in material and workmanship.

DIG CORPORATION SHALL IN NO EVENT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND; THE SOLE OBLIGATION OF DIG BEING LIMITED TO REPAIR OR REPLACEMENT OF DEFECTIVE PRODUCTS. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

Unattended use for prolonged periods without inspection to verify proper operation is beyond the intended use of this product, and any damage resulting from such use shall not be the responsibility of DIG CORPORATION. There are no warranties which extend beyond the description on the face hereof. In the case of purchase of the product for use other than, for irrigation purposes, DIG CORPORATION hereby disclaims any implied warranties including any warranties of merchantability and fitness for a particular purpose. In the case of the purchase of the product for personal, family or household purposes, DIG CORPORATION disclaims any such warranties to the extent permitted by law. To the extent that any such disclaimer or implied warranties shall be ineffectual, then any implied warranties shall be limited in duration to a period of one year from the date of the original purchase for use by the purchaser. Some states do not allow limitation on how long an implied warranty lasts, so the above limitation may not apply to you.

In order to obtain performance under this warranty, the unit must be returned to the factory, along with proof of purchase indicating original date of purchase, shipping prepaid, addressed as follows:

DIG CORPORATION, 1210 Activity Drive, Vista, CA 92081. Repaired or replaced units will be shipped prepaid to the name and address supplied with the unit returned under warranty. Allow four weeks for repairs and shipping time. Repair of damaged units not otherwise within warranty may be refused or done at a reasonable cost or charge at the option of DIG CORPORATION.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

MATERIALS

The following raw materials are used to manufacture this kit:

- Drip tubing: low-density 7510, 2% carbon black, polyethylene
- Micro tubing: Vinyl
- Pressure regulator and backflow device: ABS with 204 SS spring
- 1/2 in. Fittings: ABS
- 1/4 in. fittings and ball valve: Acetal
- Drippers: Silicon diaphragm and polypropylene body
- Hose end and stakes: Polypropylene

1.800.344.2281 FAX: 760.727.0282

DIG water matters

1210 Activity Drive
Vista, CA 92081
26-008 REVA 042214
www.digcorp.com
e-mail: dig@digcorp.com

INSTALLATION INSTRUCTIONS

Drip Watering Kit

Model G77AS

INTRODUCTION

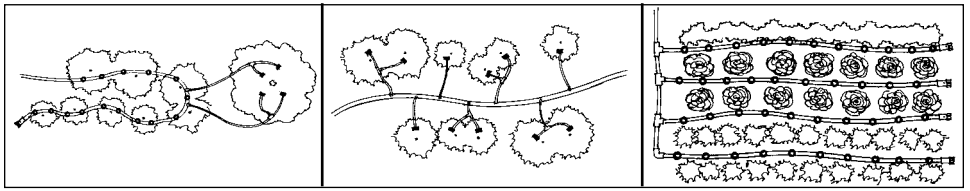
Thank you for purchasing the DIG Model G77AS Drip Watering Kit. Please take the time to read through the enclosed instructions and follow them step by step. If you have any questions, please call our customer service line at 1-800-344-2281.

GENERAL DESCRIPTION

Follow these guidelines for the design and installation of a cost effective and reliable drip irrigation system in a landscape area, which promotes efficient water use and protects our natural resources.

PLANNING & DESIGNING

When designing your system, make sure to have a design drawing before you start the job. Design drawings should be clearly readable to scale and should include water source location, layout of the poly tubing, drip emitters, fittings, end line for flushing, plant materials and sidewalks. Different species and sizes of plants will have different water requirements, so take into account the plant type, location, size and soil type. Trees, shrubs, roses, and vegetables within a different height and size will require a different number of drip emitters per plant. This will require measuring the area you wish to water. We recommend using graph paper, this will make drawing to scale easier.



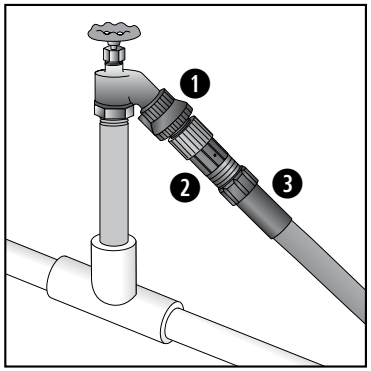
For detailed information, see the DIG planning guide DS20L, or go to www.digcorp.com to download PDF.

RECOMMENDED NUMBER OF DRIPPERS PER PLANT

TYPE OF PLANTS	NUMBER OF DRIPPERS AND SPACING
Flowers	One dripper (1 GPH) in loamy & sandy soil spaced every 12-18 in.
Vegetables	One dripper (.5 GPH) in clay soil, spaced every 18 in. One dripper (1 GPH) in loamy & sandy soil spaced every 12-18 in. or one per plant.
Small shrubs and roses (up to 2 feet high)	One dripper (1 GPH) per plant in clay soil. One to two (1 GPH) drippers in loamy & sandy soil, spaced every 12-18 in.
Medium shrubs and small trees (2-4 feet high)	Two drippers (1 GPH) per plant in clay soil spaced 10 in. from center. Two drippers (2 GPH) spaced 9-12 in. from center or 3 (1 GPH) drippers in loamy & sandy soil, spaced 12-18 in. apart.
Medium shrubs and small trees (4-6 feet high)	Two to three drippers (2 GPH) in loamy soil spaced 16-18 in. apart in a loop or 4 (1 GPH) drippers in sandy soil, spaced 12-18 in. apart in a loop around the tree.

INSTALLATION

Begin your installation at the water source by attaching the backflow preventer ❶ to your faucet, then attach the 25 PSI preset pressure regulator ❷ to the backflow preventer. Connect the hose adapter ❸ to your pressure regulator and insert the poly tubing into the swivel compression adapter. If you wish to automate the system, you can use a DIG battery operated controller (Model 9001D, 9001EZ or 7001) available at a store near you.

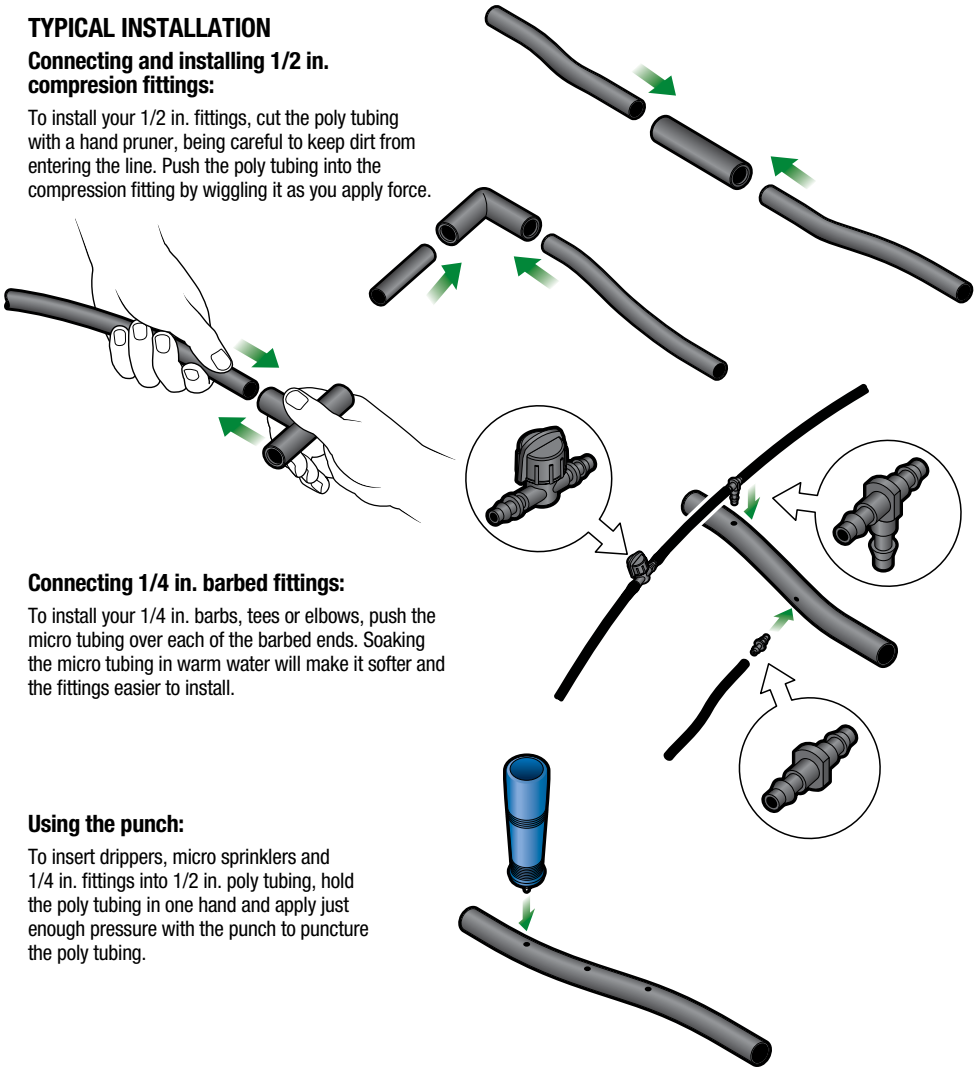


Next, lay down your 1/2 in. poly tubing. If you plan to leave it above the ground, allow the poly tubing to sit in the sun before installation, making it easier to work with. Use stakes to secure the poly tubing to the ground. If you are burying the poly tubing, dig a trench about 6 in. from the roots of the plants. A shallow trench, 5-8 in. deep is all that is needed to keep the poly tubing safe from cultivation practices. Do not bury the end of the poly tubing, allow it to remain on the surface for periodic flushing.

TYPICAL INSTALLATION

Connecting and installing 1/2 in. compresion fittings:

To install your 1/2 in. fittings, cut the poly tubing with a hand pruner, being careful to keep dirt from entering the line. Push the poly tubing into the compression fitting by wiggling it as you apply force.



Connecting 1/4 in. barbed fittings:

To install your 1/4 in. barbs, tees or elbows, push the micro tubing over each of the barbed ends. Soaking the micro tubing in warm water will make it softer and the fittings easier to install.

Using the punch:

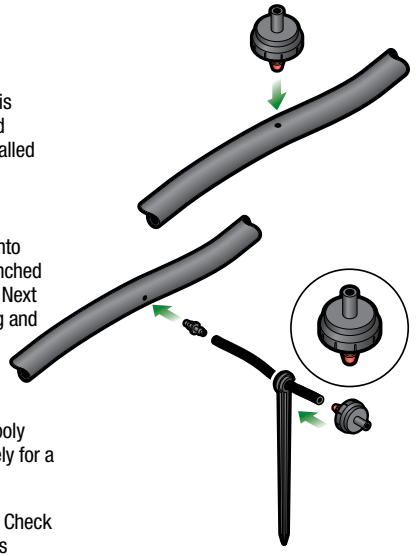
To insert drippers, micro sprinklers and 1/4 in. fittings into 1/2 in. poly tubing, hold the poly tubing in one hand and apply just enough pressure with the punch to puncture the poly tubing.

Installing drippers to 1/2 in. poly tubing:

Drippers are installed by punching a hole in 1/2 in. poly tubing and snapping in the barbed side of the drippers. If the poly tubing is buried, the drippers should always be located above the ground. This is achieved by inserting a 1/4 in. barb or tee into the poly tubing and running 1/4 in. micro tubing to the surface where the dripper is installed into the end of the micro tubing.

Installing drippers into 1/4 in. micro tubing:

For plants far from the poly tubing, first insert a 1/4 in. barb or tee into one end of the 1/4 in. micro tubing, then insert the barb into the punched hole in the 1/2 in. poly tubing and run the micro tubing to the plant. Next insert the barbed inlet of the dripper into the end of the micro tubing and secure with a stake.

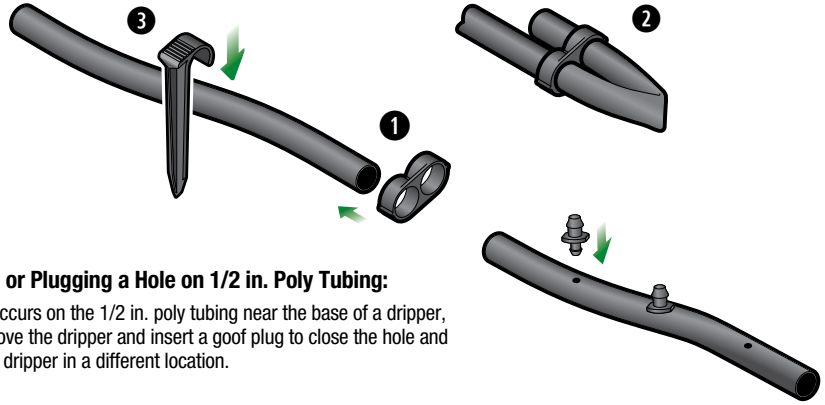


INITIAL SYSTEM START-UP

❶ Before turning the system on for the first time, leave all 1/2 in. poly tubing ends open and turn on your water and allow it to run freely for a few minutes. This will flush out any dirt that may be in the line.

❷ Close the end of the poly tubing by using a “figure 8” hose end. Check to see the drippers are operating correctly and that no leakage is occurring.

❸ Use stakes to secure the poly tubing to the ground.



Repairing or Plugging a Hole on 1/2 in. Poly Tubing:

If leakage occurs on the 1/2 in. poly tubing near the base of a dripper, simply remove the dripper and insert a goof plug to close the hole and reinsert the dripper in a different location.

DRIP LAYOUT EXAMPLE