

## ***Micro Dripper Irrigation DIY Kit (inc. Rainbird Timer)***

### ***Installation Guide***

Congratulations! Your garden is about to benefit from some of your finest work, with the help of this DIY Irrigation Kit. While gardens do come in all shapes and sizes, we've done our best to put together this kit to suit your typical small to medium sized garden beds.

And even if it doesn't quite include everything for your place, for instance you need an extra fitting here or there, it's still a great way to get started with your own irrigation project.

#### ***Kit includes:***

- 1 x Rainbird 1ZEHTMR Digital Tap Controller
- 2 x AA Batteries
- 1 x 19mm x 20mm Nut & Tail
- 1 x 25m 19mm Poly
- 4 x 19mm Elbow
- 2 x 19mm Tee
- 5 x 19mm x 15mm F.I. Tees
- 2 x 19mm x 15mm F.I. Elbows
- 25 x 19mm Ratchet Clamps
- 6 x 450mm Poly Risers
- 6 x Shrub Adaptors
- 6 x Rainbird 8VAN Spray Heads
- 1 x Teflon Tape

#### ***Tools you'll need:***

- Shovel
- Pipe Cutters (or Secateurs)
- Multi-Grips (to tighten the Ratchet Clamps)

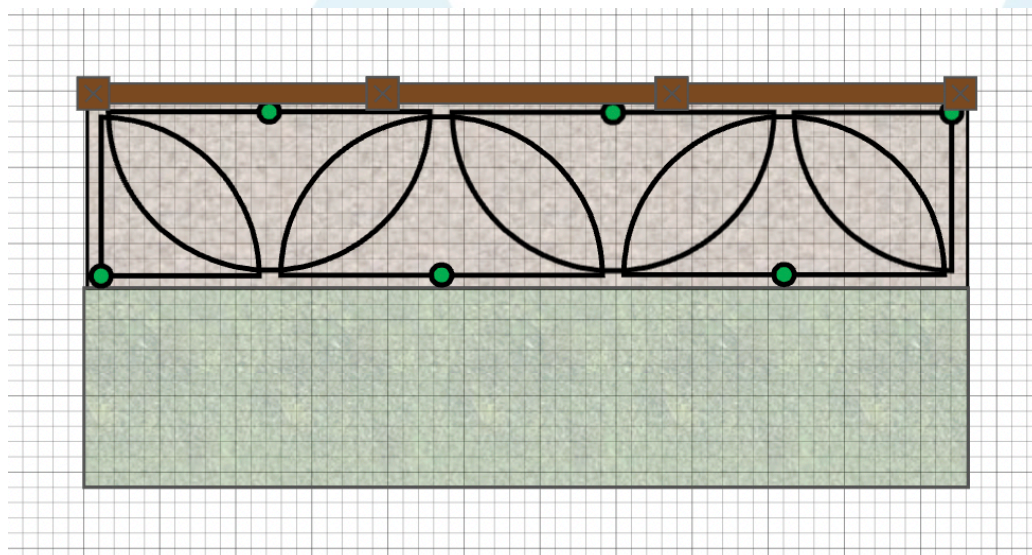
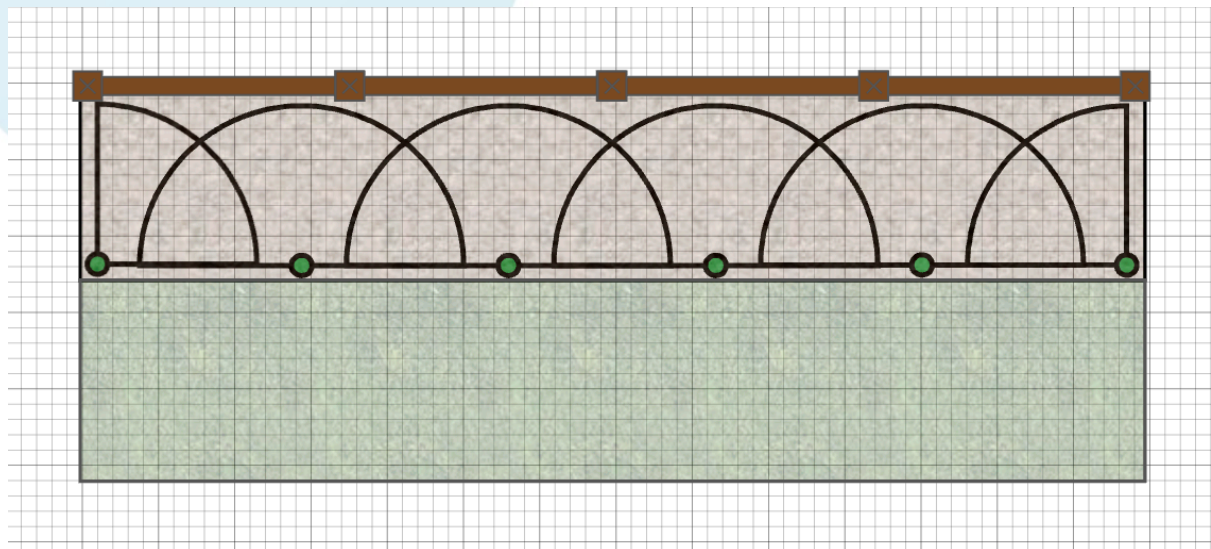
## *Installation Steps*

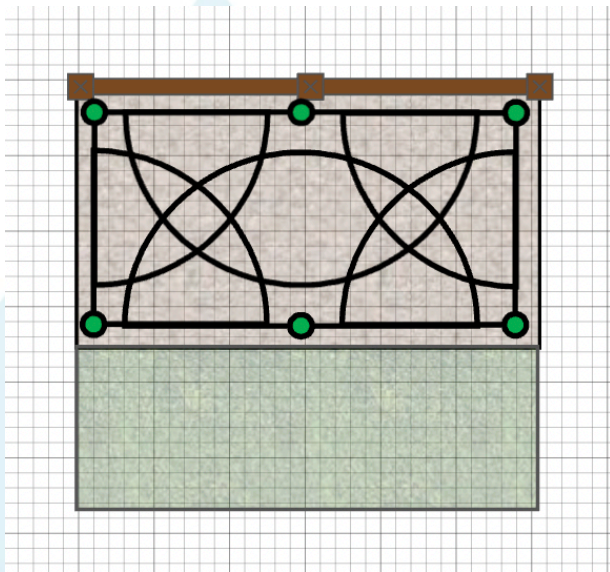
1. Identify a preferred layout & dig trenches (or scrape away mulch)
2. Roll out pipe & install parts
3. Program your timer
4. Flush the system

### *1) Identify a preferred layout & dig trenches*

#### *How to work out your ideal sprinkler layout*

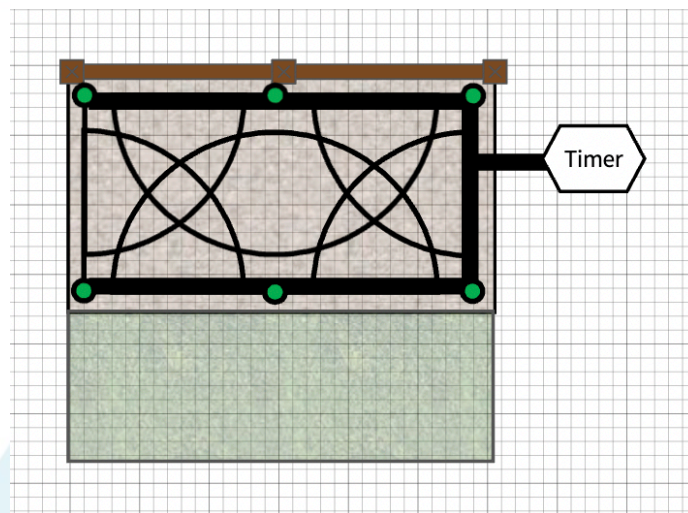
Shrub spray heads (like the ones included in this kit) provide the most even coverage when positioned to spray all the way to the base of the next one, so you want considerable overlap. The Rainbird 8VAN spray heads in this kit have a spray radius of up to 2.4m (8 feet), so you'll want to space them no further than 2.5m apart. See the examples below, you'll notice the more overlap, the more even coverage:





### ***How to plan & your dig trenches***

Always start from your water source (usually a garden tap) & identify a path that runs to the base of where each sprinkler will go. The poly risers will screw directly into the pipe with the help of a Poly F.I. Tee (inline) or Poly F.I. Elbow (at an end point). Your goal here should be to minimise the distance the water needs to travel to get to each spray. See this example:



It's always best to use a trenching shovel, and you don't need to dig deep trenches to hide your poly tube, just enough to bury it, and also enough to support the risers, so they stand nice and upright. Keeping your garden looking neat and tidy!

## **2) Roll out pipe & install parts**

As you roll out the pipe & connect each piece, always start from the timer, it will make your life a whole lot easier.

### **How to connect the timer**

Connecting your **Rainbird 1ZEHTMR Tap Computer** is easy:

1. Pull the battery case out of the back of the timer & insert the included **AA batteries**.
2. Screw the timer directly onto the tap. (*the timer screws onto a standard 20mm tap, if you have a non-standard 25mm tap, [you may need one of these](#)*)
3. Screw the included **13mm x 20mm Nut & Tail** onto the bottom of the timer.

### **How to connect poly pipe fittings**

Connecting poly fittings is easy, but you must do it correctly to avoid any burst pipes later on! It's a matter of:

- 1) Cutting your pipe,
- 2) Push the barbed fitting all the way inside the pipe,
- 3) Connect and secure a **ratchet clamp**, behind the raised barb, using multi-grips.

And if it's a cold day, and your pipe is too firm, you can always dunk the cut end of pipe in some hot water to soften it a little. [Watch the YouTube video](#).

### **How to Install Shrub Sprays on Risers**

This kit includes both **Poly F.I. Tees & Elbows, 450mm Poly Risers, Teflon Tape, Shrub Adaptors & Rainbird 8VAN Spray Heads**. To install them:

- 1) At the point along the poly tube that you wish to install a spray head, cut the poly pipe and connect a **Poly F.I. Tee (or Elbow if at an end point)** as directed above.
- 2) Apply **Teflon Tape** to each of the threaded ends of a **450mm Poly Riser**, going around about 3-4 times & tight enough that it doesn't slide off when the thread is screwed on.
- 3) Screw the **450mm Poly Riser** into the **Poly F.I. Tee** & on the other end screw on a **Shrub Adapter**.
- 4) Hold the **450mm poly Riser** upright & back fill the dirt around it so it stands on its own.
- 5) Hold off screwing in the **Rainbird 8VAN Spray Heads** until after you've flushed the system

### **3) Program Your Timer**

This Kit includes a [Rainbird 1ZEHTMR Tap Timer](#), learn how to program it here:

- [Watch YouTube Video](#)
- [Read Product Manual](#)

### **4) Flush & Adjust The System**

Although we have no doubt you worked as cleanly as possible, you still want to make sure there's no dirt or grit in the lines from installation that will block the system up on it's first cycle. So just:

- 1) Make sure your spray heads aren't screwed on yet,
- 2) Give the system a manual cycle for a minute or until you can see the water is flowing clear out of all outlets,
- 3) Insert the included **Spray Head Filters**, then screw on your **Rainbird 8VAN Spray Heads** & adjust accordingly.

#### **How to Adjust Rainbird VAN Spray Heads**

There are 2 adjustments you can make to Rainbird VAN Spray Heads:

1. **Spray Arc Adjustment:** Looking at the spray, you'll see a middle collar in between the coloured top & the base. Use your fingers to rotate it, and it will open and close the spray arc from left-to-right.
2. **Spray Radius Adjustment:** You can adjust the flow from these spray heads all the way down to zero, but they'll effectively spray with only a small adjustment down to about 80%. This is done with a small screwdriver, by screwing down the small screw on the top of the Spray Head.