

## Micro Spray 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 these applications:

- Veggies patches,
- Small garden beds,
- Sideways or fencelines.

And even if it doesn't quite include everything for your place, like the right spray heads, or 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 Tap Timer
- 2 x AA Batteries
- 1 x 13mm x 20mm Nut & Tails
- 1 x 25m roll of 13mm Poly
- 6 x 13mm Elbows
- 2 x 13mm Tees
- 2 x 13mm End Plugs
- 25 x 13mm Ratchet Clamps
- 10 x Rigid Risers
- 10 x Asta Stakes
- 4 x Black Quarter Circle Micro Sprays
- 6 x Black Half Circle Micro Sprays
- 1 x Micro Punch
- 1 x Teflon Tape

#### Tools you'll need:

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

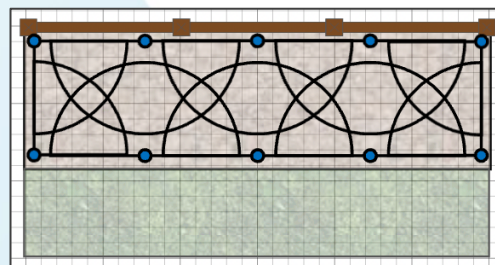
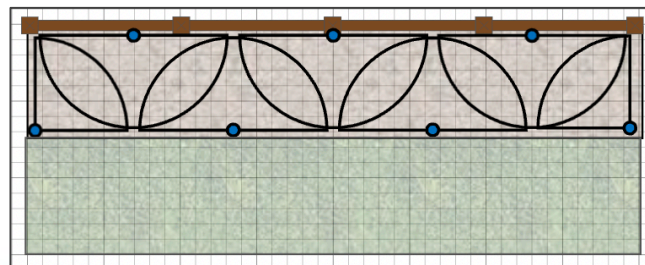
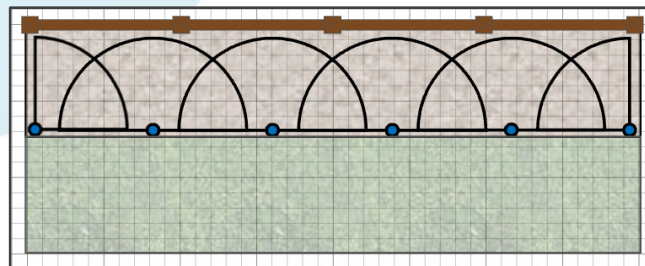
## Installation Steps

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

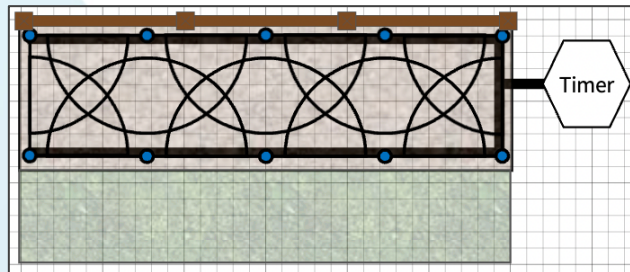
#### *How to work out your ideal sprinkler layout*

All sprinklers 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 Micro Sprays in this kit have a spray radius of about 1.2m, so you'll want to space them no further than 1.5m apart. See the examples below, you'll see some have better coverage than others:



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

Always start from your water source (usually a garden tap) & identify a path that reaches each sprinkler's location. Your goal here should be to minimise the distance the water needs to travel to each sprinkler. See this example:



In the garden beds, you don't need to dig deep trenches, just deep enough to hide the pipework. If they're too deep your sprinklers will sit too low!

### **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 Micro Sprays on Rigid Risers***

This kit includes, ***Micro Sprays, Rigid Risers & Asta Stakes***. To install them:

- 1) At the exact location you want to place your sprinkler, use the included ***Micro Punch Tool*** to punch a hole in the top of your poly tube.
- 2) Screw in the ***Rigid Riser***
- 3) Right next to the *Poly Pipe & Rigid Riser*, press the ***Asta Stake*** into the ground and clamp in the ***Rigid Riser*** so it securely stands upright on its own.
- 4) Screw in the ***Micro Spray*** – making sure it faces in the right direction. (but wait to do this final step until 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 The System**

Although we have no doubt you worked as cleanly as possible, you 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 all of your micro spray heads aren't yet screwed on,
- 2) Give the system a manual cycle for 30 seconds to a minute,
- 3) Screw on all your spray heads & enjoy your new micro spray system!