

As gardeners we all do not look forward to those dry, torturous summer garden days where we have to drag hoses all over the garden.

We will stumble over them, have them brake our most beloved plants, leak all over the place, not making the gardeners life easy.

Since we are running our little nursery we came up with a low cost alternative solution to the sometimes costly and over the top irrigation systems on the market.

All parts for this system can be obtained either at Home Depot or Lowe's or your local hardware store.

### Here is the parts list for the sprinkler:

#### Plumbing Department: In assembling order

1 = 1/2 inch end cap

1 = 1/2X18 inch galvanized pipe

1 = 1/2 inch T-section

1 = 1/2X48 or 1/2X60 inch galvanized pipe, depending how high and how much reach you need from your sprinkler.

1 = 1/2 inch connector

1 = small pipe compound

#### From the brass fittings drawer

1 = 3/4X1/2 Female Hose to MIP Adapter

#### Garden Department

1 = Sprinkler head - In 2004 they were available without the zinc base, but in 2005 and 2006 I had to buy both for twice the price.

1 = Garden-Hose - The quality is up to you, I chose a good quality, because I need them to last. I purchased them as 100 ft hoses from Costco and cut them to the desired length. To do it this way you also need some end parts which can be pretty costly if you buy good quality. So measure your situation, distance faucet to sprinkler and you may be better off just to use a 25 ft or 50 ft hose.

1 = Programmable Water Timer - Home Depot has the round timers I use, Lowes has similar products

#### Somewhere in the store

1 = 9 volt battery for the water timer.

**And before you leave the store** you will need some 36 to 48 inch stakes to keep the sprinklers from vibrating too much. Tomato stakes, pre-cut re-bar, broom sticks or similar will do. I wire them together with thin metal wire

but have also used Duck tape from time to time. Let your imagination go wild.

### Here are the tools you need:

A Phillips screw driver for the water timer batteries.

Either two small plumbing wrenches or two vice grips or one of each will do. Roam through your toolbox, a large wrench might also do the job.

A hammer and a piece of wood or a rubber hammer to drive the pipe into the ground, do not damage the threads.

For the stake or re-bar a plain hammer will do.

A spade or a sharpshooter or a regular shovel to dig your hose under, otherwise some hardwood mulch to hide it.

### Now we are ready for action

Take the cap and your 18 inch pipe apply some compound to all connections, screw together with either small plumbing wrenches or two vice grips. Add the 'T' connector (see sketch) no in front of 'T' goes the brass hose adapter.

Now hammer these into the ground to the brass connection, this is easier than assembling all of it first. Got that in, screw in the long pipe and now the two way connection. screw in your sprinkler head and hook up your hose and you are ready. it takes about 15 minutes.

You can dig your hose under or just bury it under leaves, mulch or leave it just out laying. With a black hose even better. We leave ours all year out, no disconnecting needed except the timers. You don't want them to freeze.

**The electronic water timers** are pretty simple, it takes a 9 volt battery, some take two AA batteries. Generally a 9 volt will last all season. You can set the start time, I recommend nights, the interval, I recommend every 2 or 3 days and the duration, I recommend 2 hours. When there is rain in sight I just turn the faucet off, which does not affect the timer. You can also set the timer to off. It does not affect your program a green light will blink when you turn it back on until your set duration is back in place. You can also change your duration any time here, change to desired duration and then hit the yellow button and your new setting is in.

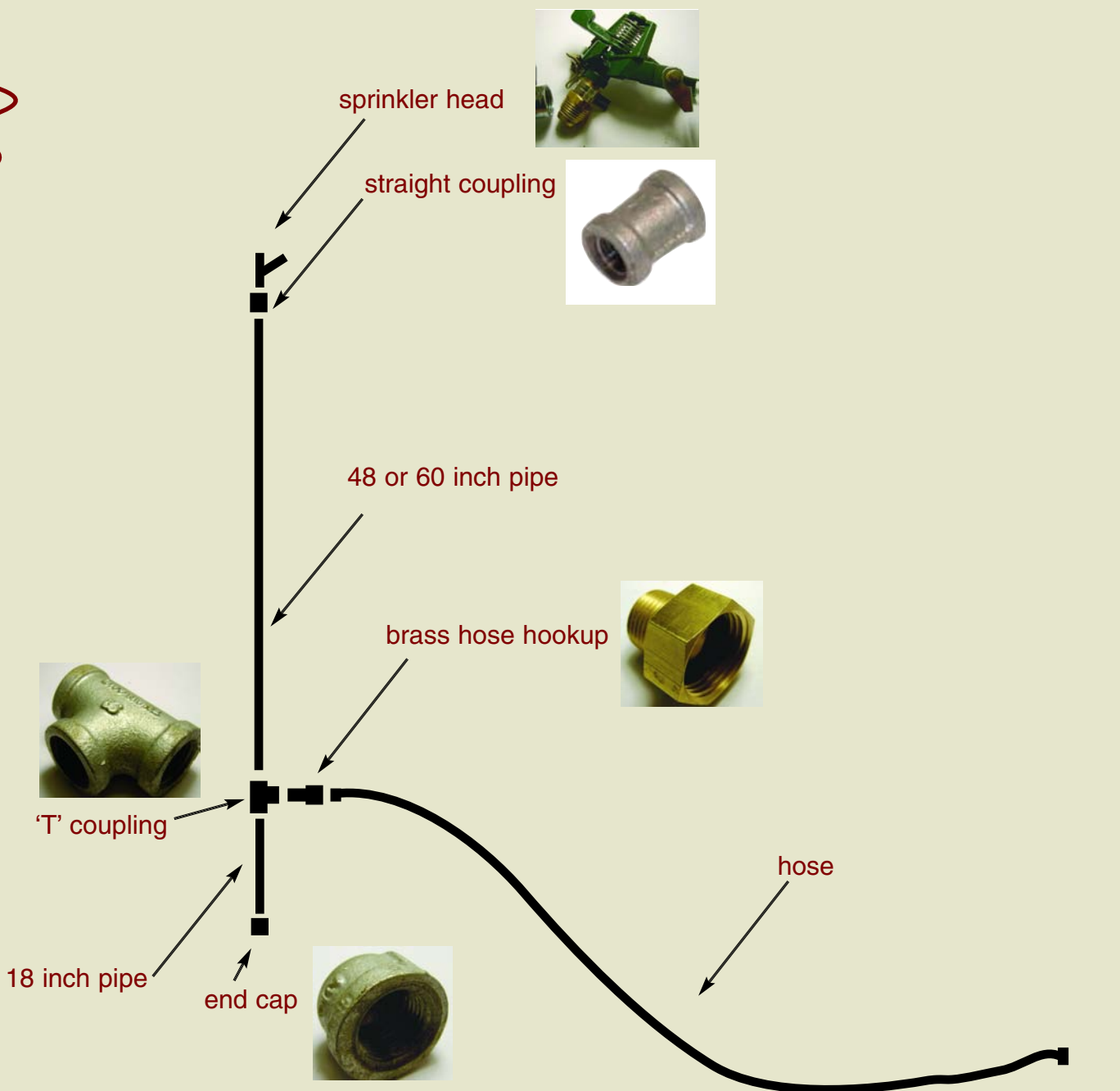
This should be all, feel free to contact me at [wolfgang@gardensoyvey.com](mailto:wolfgang@gardensoyvey.com)

Thank you

Wolfgang Marquardt

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yellow button

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