PREMIER POLYTUNNELS

The Outside, **Inside**

TWIN LINE OVERHEAD IRRIGATION ASSEMBLY GUIDE

Thank you for purchasing a Premier Polytunnels' Irrigation Kit.

Please take the time to carefully read through this Assembly Guide before you head out into your garden and begin building your overhead irrigation system.

The following is a Guide to the successful assembly of your overhead irrigation system. Please use the Checklist supplied with your order, together with this Guide, to help you identify the different parts of your irrigation kit.

If you are unsure or confused about any aspect of assembly, please feel free to contact us via e-mail at info@premierpolytunnels.co.uk or by telephone on 01282 811250.
Premier Polytunnels are proud to be the **ONLY** polytunnel supplier to offer an out of hours Construction Advice Service, available until 9pm, 7 days a week.

TOOLS REQUIRED: Sharp Knife

WARNING: PRODUCTS MAY CONTAIN SHARP EDGES. ALWAYS WEAR GLOVES.

TWIN LINE OVERHEAD IRRIGATION

FOR POLYTUNNELS GREATER THAN 12FT WIDE

On polytunnels greater than 12ft wide a Twin Line overhead watering system is used.

Two straining wires are suspended along the length of the polytunnel under the hoops from which the spray lines are suspended.

Two short 12-inch lengths of wire should be assembled with the flat end of a wire strainer attached to one end and a small loop at the other end big enough to fit over an 8mm bolt **(See Fig1 and Fig2).**

On ***14ft wide*** polytunnels this loop should be placed over the bolt holding the ends of the Door Rail to the P Clips at one end of the polytunnel and held with a nut and washer **(See Fig3).**
On polytunnels ***greater than 14ft wide*** the wire loop should be placed over the bolt holding the top of the Door Post to the P Clip.

Two lengths of wire should be cut the length of the polytunnel and a loop formed at one end – This is attached to the two bolts holding the Door Rail – OR – Door Post at the opposite end of the polytunnel. Thread the end of the wires through the hole in the end of the wire strainers and through the hole in the cam. Trim of excess wire and turn the cam with a spanner in the direction that prevents the cam from unwinding **(See Fig4).**

Fig1

Fig2

Fig3

Fig4

*****IT IS IMPORTANT NOT TO OVER TENSION THE STRAINING WIRE AS THIS WILL PULL IN THE END HOOPS OF THE POLYTUNNEL.... Just take the strain and no more.*****

The wire is attached under the intermediate hoops using cable ties **(See Fig5).**

Fig5

"MEASURE TWICE, CUT ONCE!"

20mm LDPE pipe is used throughout the system as a method of water delivery – Barbed fittings which are inserted into this pipe are a tight fit to prevent the joint from leaking or coming apart.

*****PLEASE NOTE: When assembling barbed fittings with the pipe, heat the pipe in hot water for several seconds before fitting the barb – This will greatly assist assembly (See Fig6).*****

Fig6

Cut two lengths of 20mm pipe 18-inch shorter than the length of the polytunnel and insert an inline valve in one end with a short 6-inch piece of pipe on the opposite end of the valves **(See Fig7)**. Cable tie these pipes under the two straining wires with the valve at the end of the polytunnel at which the water supply will enter. Insert a 90 Degree elbow in this end of each of the pipes and a bung in the opposite end.

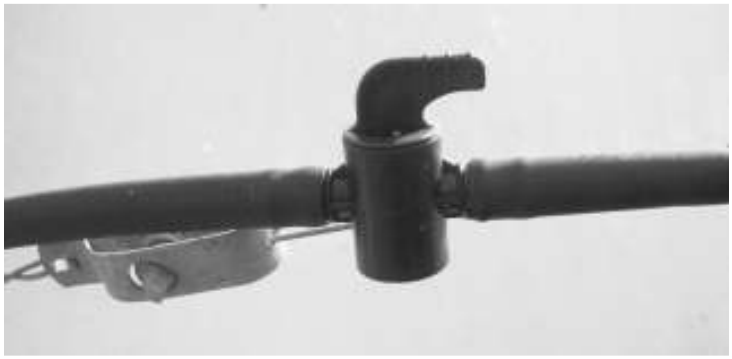


Fig7 – Inline valve

Cut a length of pipe to be fixed to one of the Door Posts – This is the feeder pipe where the water supply enters. This pipe should start at waist height and be cut level with the steel Door Rail on ***14ft wide*** tunnels or level with the Door Lintel on ***16ft wide and larger*** polytunnels. Fit the ¾ inch barbed 'Female' connector and ¾ inch 'Male' click fitting to the inlet end of the pipe, **(See Fig8 and Fig9)** – At the Door Rail or Door Lintel end a barbed tee should be inserted. On ***14ft wide*** polytunnels this should be the leg of the "Tee", and on ***16ft wide and larger*** polytunnels insert one stem of the "Tee". **(See Diagram1 on page 6 and Diagram2 on page 7)**.

If you have purchased a ***'Premier Irrigation Kit'***, a pressure regulator will be supplied and this can be inserted between the female connector and male click fitting **(See Fig8 and Fig9)**.

Fig8

Fig9

To complete the pipe work on ***14ft wide*** polytunnels, two lengths of pipe should be cut and fixed from each side of the tee to the two elbows on the spray lines and cable tied to the Door Rail. The feeder pipe should be fastened to the Door Post using pipe clips.

To complete the pipe work on ***16ft wide and larger*** polytunnels, a 20mm pipe should be cut to fit from the leg of the tee across the Door Lintel to the opposite Door Post. At this end of the pipe fit an elbow. A further length of pipe will run from this elbow up the Door Post to the elbow previously inserted in the spray line. From the remaining side of the tee cut a pipe to fit up the Door Post between the tee and spray line elbow.

The final job is to insert the sprinkler assemblies into the spray lines. This is done by making a hole in the underside of the spray line using a 3-inch nail (or using the hole punch supplied with our ***'Premier Irrigation Kit'***) and pushing in the sprinkler assembly – This requires a bit of effort! **(See Fig10 and Fig11).**

Fig10

Fig11

To get the correct position for the sprinklers one should be placed approximately 18-inch from each end of the polytunnel and the remaining equally spaced between these two **(See Fig12).**

Fig12

If you have purchased our ***'Premier Irrigation Kit'*** you will have been supplied with a Galcon battery operated Tap Timer. This timer connects directly to your water tap. This timer is supplied with manufacturer instructions.

Depending on various circumstances it may only be possible or necessary to water one side of your polytunnel at a time – Use the inline valves to control the supply to suit your needs.

Now all that's left to do is connect your hose and retire the watering can!

Diagram1

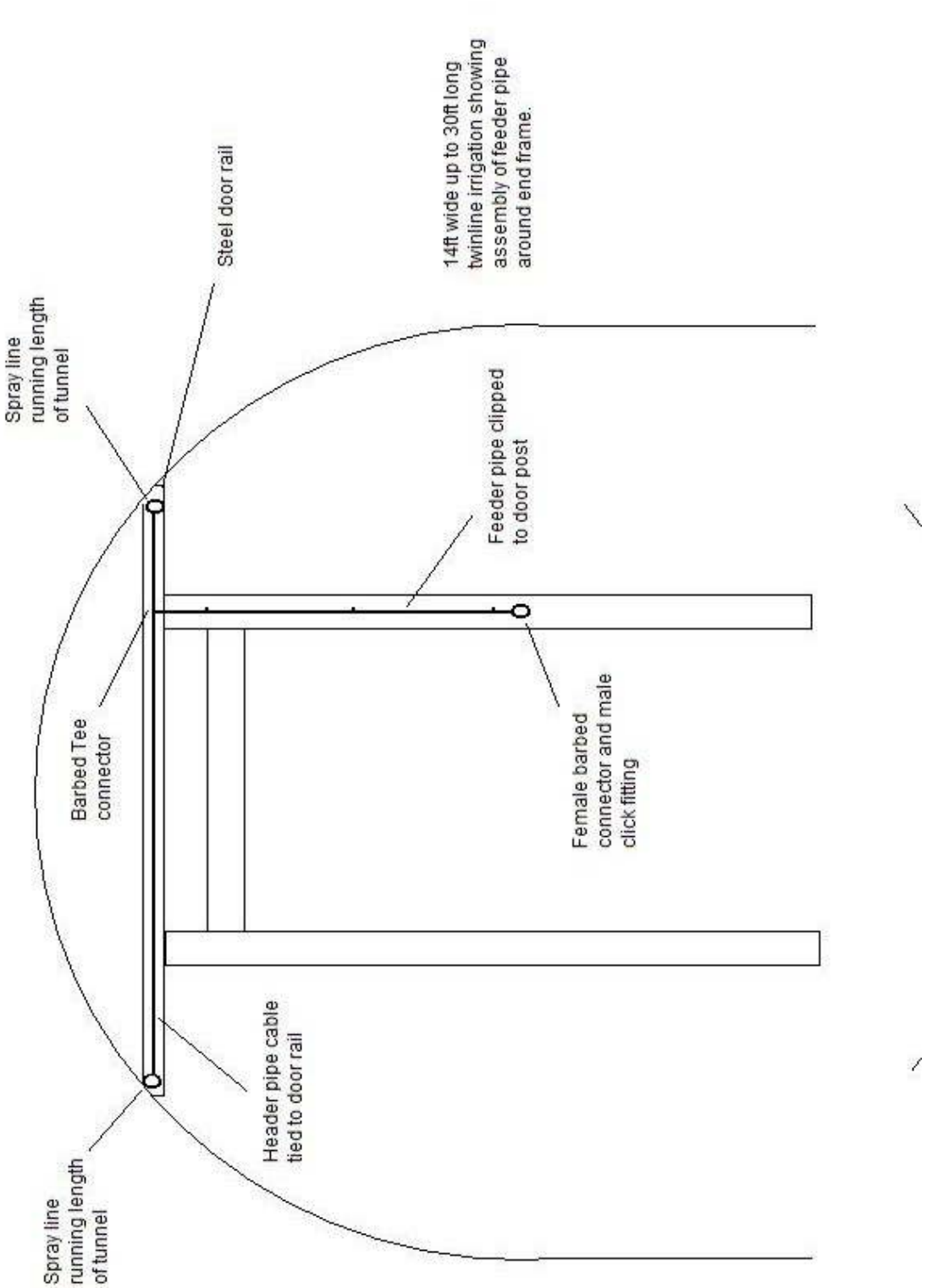
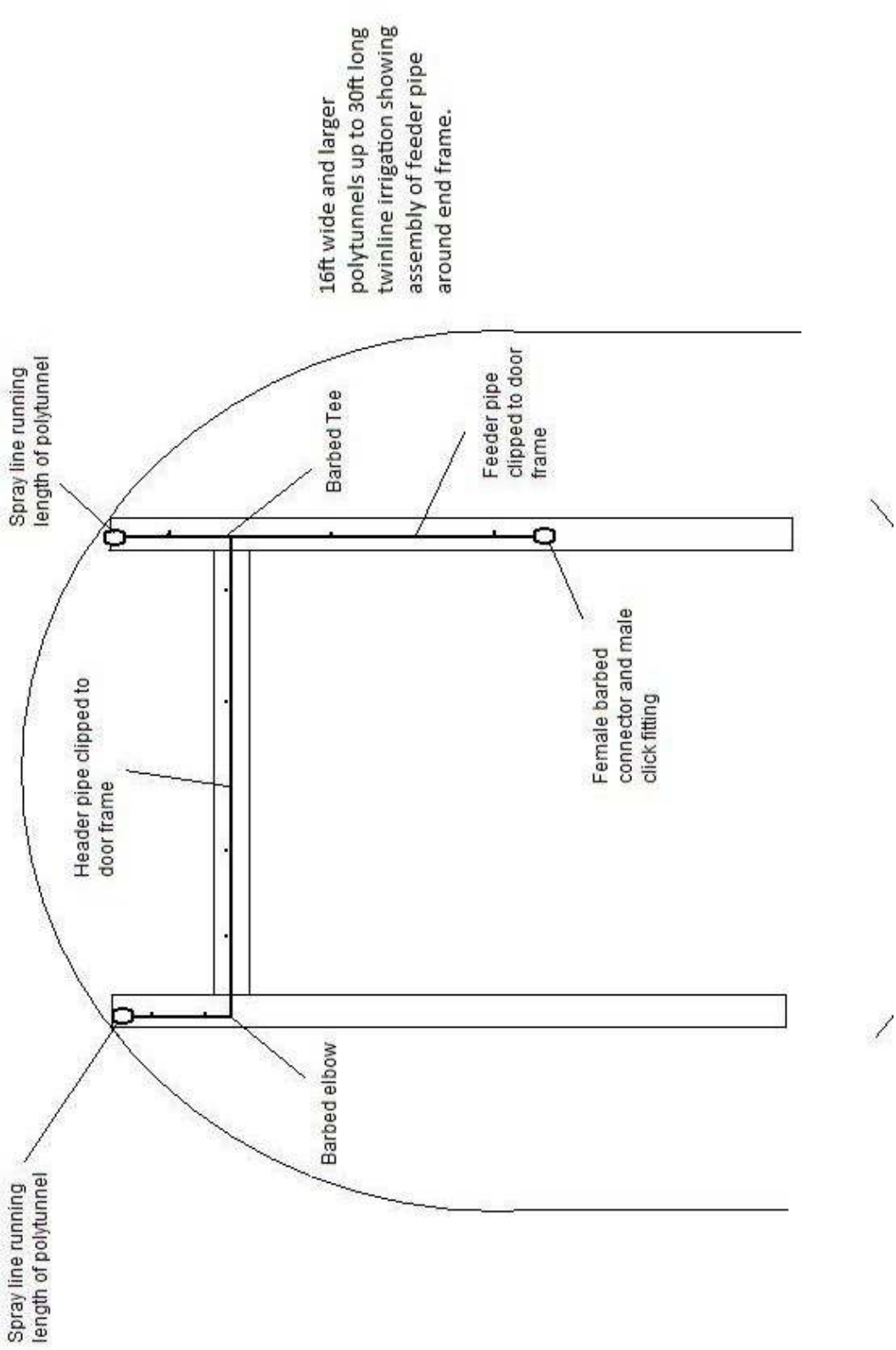

14ft wide up to 30ft long twinline irrigation showing assembly of feeder pipe around end frame.
Steel door rail
Spray line running length of tunnel
Feeder pipe clipped to door post
Barbed Tee connector
Female barbed connector and male click fitting
Header pipe cable tied to door rail
Spray line running length of tunnel

Diagram2


16ft wide and larger polytunnels up to 30ft long twinline irrigation showing assembly of feeder pipe around end frame.
Spray line running length of polytunnel
Barbed Tee
Feeder pipe clipped to door frame
Female barbed connector and male click fitting
Header pipe clipped to door frame
Barbed elbow
Spray line running length of polytunnel