

Soil Tube Assembly

Soil Tubes

Parts

- 30" of $\frac{3}{4}$ " Schedule 40 PVC pipe
- One $\frac{3}{4}$ " Schedule 40 PVC coupling
- Two $\frac{3}{4}$ " Schedule 40 PVC 90° elbows
- Two $\frac{3}{4}$ " Schedule 40 PVC tees
- Three #12 hose clamps
- Three #24 hose clamps
- One small can PVC cement
- One 48" clear plastic fluorescent light tube cover
- Three end caps for above
- Nylon stocking material or cheesecloth

Tools

- $\frac{5}{16}$ " nut driver
- Hack saw (for cutting PVC)
- Sharp knife (for cutting tube)
- Tape measure or ruler

Assembly

__1. Cut Schedule 40 PVC pipe into the following sizes.

Qty	Length	Description
1	10 $\frac{1}{2}$ "	Cross Piece
2	8"	Legs
1	3"	Support

__2. Cement the coupling to one end of the support—see Figure 1. Push the pieces together quickly because the cement sets up very fast.



Figure 1

__3. Cement a 90° elbow to one end of each leg—see Figure 2.

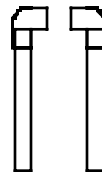


Figure 2

__4. Cement the cross piece to one of the 90° elbow and leg assemblies—see Figure 3.

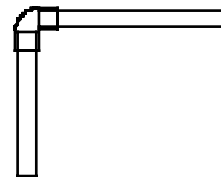


Figure 3

__5. Lay the cross piece and leg assembly on a flat surface. Cement the other end of the cross piece to the other leg assembly so both leg assemblies lay on the flat surface—see Figure 4.

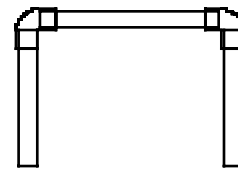


Figure 4

__6. Cement a tee to each leg—see Figure 5.

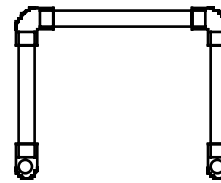


Figure 5

__7. Cement the support to one of the tees—see Figure 6.

__8. Measure and cut the fluorescent tube cover in half.

__9. Measure and cut each of the halves in half.

__10. Open the three #12 hose clamps completely.

__11. Place a mark on the cross piece $\frac{3}{4}$ " from each end—see Figure 6.

__12. Measure and mark the center of the cross piece—see Figure 6.

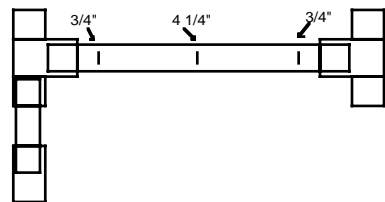


Figure 6

__13. Fasten the #24 clamps to the cross piece using the #12 clamps—see Figure 7 for proper orientation of the clamps.

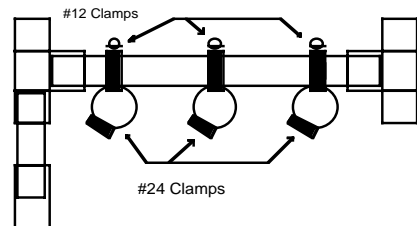


Figure 7

__14. Insert the fluorescent tube covers and hold in place with the #24 clamp. Do *not* overtighten clamps.

__15. Cut three pieces from the nylon or cheese cloth approximately 2" square.

__16. Place a square on the bottom of each tube and press the tube cap on to hold it in place.