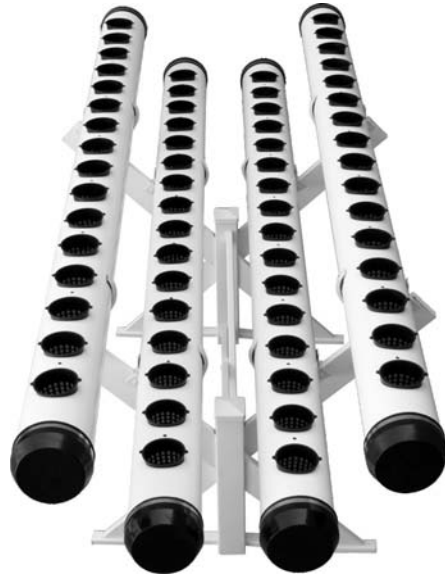


PT32V & PT64 Blue Drip Spear Garden System Manual

by Future Harvest Development™



PT32V



PT64

PT32V & PT64 Drip Spear Garden Manual

Future Harvest Development™

Thanks you for purchasing a Plant Tier Gardening System.

Grow Healthy Grow Your Own

Please be sure to read all instructions before commencing with your new garden assembly and operation.

If you have any questions, please call us at 1-866-491-0255.

Thank you and happy growing!

FHD

IMPORTANT

USE CAUTION WHEN HANDLING. PLASTIC MILLED EDGES ARE SHARP.

MAKE CERTAIN THERE IS NO DEBRIS IN TUBES BEFORE OPERATING WATER PUMP.

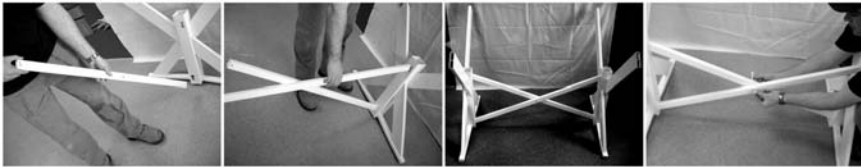
Keep your system clean with regular maintenance, quality fertilizers, and proper water temperature.

This system is continuous feed and does not need to be timed.

PT64 OWNERS PLEASE NOTE: This manual demonstrates the PT32V. PT32V assembly is the same as the PT64 (exception – longer pipes and larger number of parts). All extra parts required for PT64 assembly are noted in the Parts List.

Tools Needed For Assembly:

- 5/16 Nut Driver
- Exacto Knife
- Rubber Mallet (optional)

STEP 1: stand assembly (2)-cross braces (2)-preassembled side frames (1)-2 ¼" nylon bolt & nut

- Securely insert the first **cross brace** bar into the bottom post slot on one of the preassembled **side frames**.
- Insert the second cross brace bar into the top slot on the same side frame post, making an X shape.
- Securely insert open cross brace ends into other side frame post.
- Secure cross brace's with a **2 ¼" nylon bolt and nut**.
- Stand is complete.

STEP 2: pipe assembly (8)-pipe brackets (8)-1 ¼" nylon bolts & nuts (16)-rubber pads (4)-4' pipes

- Attach **pipe brackets** to stand. Align holes and secure with **1 ¼" nylon bolt and nut**.
- Apply two **rubber pads** to each pipe bracket to ensure against pipe slippage.
- Place **pipes** onto pipe brackets.

STEP 3: attach end caps (1)-reservoir (4)-female rubber endcaps (4)-male rubber endcaps

- Position **60L reservoir** at the rear of garden system.
- Attach **6" rubber endcaps** to pipes. Attach **female caps** to the front and **male caps** to the rear of system, with drain spouts facing down over the reservoir.
- Tighten metal cap clamps.

STEP 4: feed line assembly (4)-back flushing endcaps (4)-4'L, ½" poly tubes (8)-zap straps

- Attach one **back flushing endcap** to each of the four, 4' lengths of **½" poly tubing**. These are your **Feed Lines**.
- Use two **zap straps** to secure one **Feed Line** to each pipe. Position **Feed Lines** with the flushing end caps facing the front (same end as the female rubber endcaps) and the open **Feed Line** ends facing the rear (same end as the male rubber endcaps).



TIP: To make insertion of fittings easier, submerge your ½" poly tubing in hot water for about 20 seconds. This will also create a better seal on fittings.

STEP 5: header line assembly (2)-poly elbows (3)-poly tees (4)-10'L, ½" poly tubes

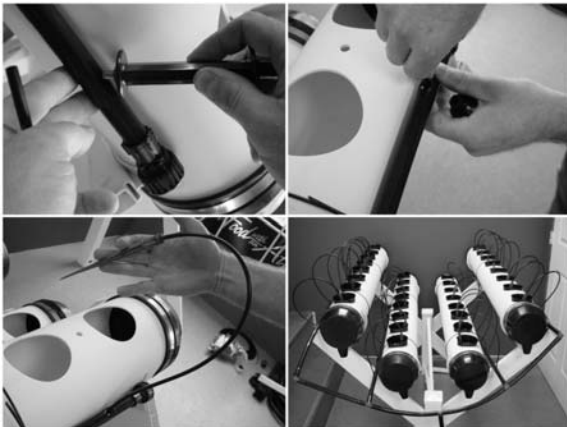
- Assemble the three **Header Line** sections before attaching to **Feed Line**, using the two **poly elbows**, three **poly tees**, and four, 10" lengths of **½" poly tubing**. See picture above for **Header Line** layout.

STEP 6: attach header line (1)-½" threaded barb (1)-20'L, ½" poly tubes


- Start from top to bottom with one of the side sections and attach the **pre-assembled Header Line** section to the open **Feed Line** ends. Attach ½" elbow to top **Feed Line**, then attach ½" tee to lower **Feed Line**. Repeat this with the other side section.
- Connect the pre-assembled middle section to the ½" tees from both side sections.
- Attach the **threaded barb** to the **20" length of ½" poly tube**. Connect this tube to the middle section ½" tee completing your **Header Line**.

STEP 7: attach pump to header line (1)-Xstream Pump

- You can now attach your **Xstream Water Pump** to the threaded barb on the Header Line. Store attached water pump inside reservoir for safe-keeping.

STEP 8: attach drip spears (32)-drip spears (32)-15" L, 1/4" spaghetti lines (1)-Olson tool punch (32)-baskets

- Attach one **drip spear** to each of the 15" lengths of 1/4" spaghetti Drip Line.
- Using your **Olson tool punch** (remove plastic cap), poke a hole into the 1/2" poly Feed Line (line your holes up with the basket sites). Be sure to use enough pressure to pierce the 1/2" feed line or you will not receive water from your feed.
- **Immediately** insert the open end of spaghetti drip line, attaching drip line and spear to your Feed Line. (*NOTE: the poly line holes you pierce will shrink, making it important to insert the spaghetti line as soon as possible, creating a good seal.*)
- Repeat for all basket sites (aligning holes with basket sites).
- Insert **baskets** in basket sites and place drip spears in baskets.

TIP: For easier insertion of the spaghetti line into the Feed Line, cut the open end of the spaghetti line at an angle (beveled edge). 

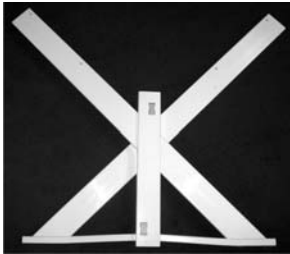

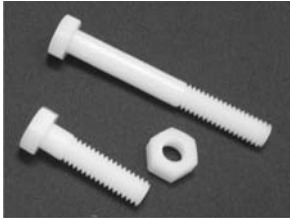
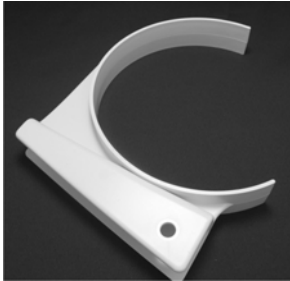


STEP 9: attach drain line (1)-10' L, 3/4" flex line (1)-reservoir lid

- We are now ready to complete your system by attaching your drain line. Cut your 10' length of 3/4" flex line into 4 sections – two 2' lines and two 3' lines.
- Insert these four drain lines into the male rubber end caps, using the longer lines on the top pipes. We strongly suggest using a soap-like lubricant to make insertion easier.
- Pull drain lines through holes on **reservoir lid** and cover your reservoir.
- Fill reservoir with water approximately 2" from the top edge. Plug in pump and check all connections for leaks.

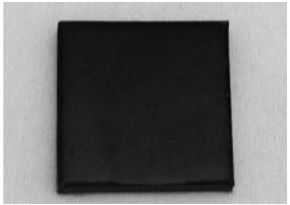





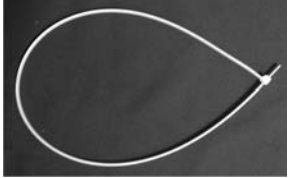
Your system is ready to grow!



PARTS LIST

PART IMAGE	QTY	PART DESCRIPTION
	2	Pre-assembled Side Frame
	1	Cross Brace
	8 1 9	5/16" Nylon Bolt (1 1/4" length) 5/16" Nylon Bolt (2 1/4" length) 5/16" Nylon Nut
	8	Pipe Bracket
	4	PT32V 4' Pipe
	4	PT64 8' Pipe






PARTS LIST (continued)

PART IMAGE	QTY	PART DESCRIPTION
	16	1" x 1" Rubber Bracket Pad
	4 4	6" Female Rubber EndCap 6" Male Rubber EndCap (includes metal cap clamp)
	1	60L Reservoir and Lid
	4	1/2" Back Flushing EndCap <i>NOTE: attached to Feed Line.</i>
	4 4 1	PT32V 1/2" Black Poly Tubing (4' length) <i>Feed Line</i> 1/2" Black Poly Tubing (10" length) <i>Header Line</i> 1/2" Black Poly Tubing (20" length) <i>Header Line</i>
	4 4 1	PT64 1/2" Black Poly Tubing (8' length) <i>Feed Line</i> 1/2" Black Poly Tubing (10" length) <i>Header Line</i> 1/2" Black Poly Tubing (20" length) <i>Header Line</i>
	8	26" Zap Strap <i>NOTE: secures Feed Line to pipe.</i>

PARTS LIST (continued)

PART IMAGE	QTY	PART DESCRIPTION
	2	1/2" Poly Elbow <i>NOTE: Header Line connector.</i>
	3	1/2" Poly Tee <i>NOTE: Header Line connector.</i>
	1	3/4" MPT x 1/2" Threaded Barb <i>NOTE: attaches Header Line to water pump.</i>
	1 1	PT32V 550 Xstream Water Pump PT64 900 Xstream Water Pump
	32 64	PT32V Blue Drip Spears PT64 Blue Drip Spears

PARTS LIST (continued)

PART IMAGE	QTY	PART DESCRIPTION
	32 64	PT32V 1/4" Spaghetti Drip Line (15" length) PT64 1/4" Spaghetti Drip Line (15" length) <i>NOTE: connects drip spears to Feed Line.</i>
	1	Olson Hole Punch <i>NOTE: remove rubber tip before use.</i>
	32 64	PT32V 3.5" Mesh Basket PT 64 3.5" Mesh Basket
	1	3/4" Flex Line (10' length) <i>NOTE: This is your Drain Line. Cut into four separate lines.</i> - Two 2' lines - Two 3' lines
	1	Teflon tape

THE ORIGINAL GROSTAR SHADE

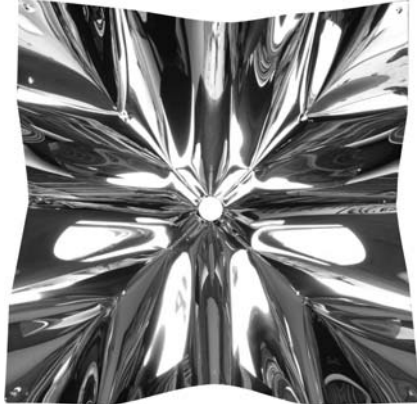


Future Harvest Development™ brings you the latest technology in light projection reflectors. The GroStar!

Designed by a lighting engineer, this amazing shade sets a new standard in indoor and greenhouse lighting.

The GroStar's unique design utilizes multiple corrective surface coatings, allowing light to penetrate the canopy.

This shade truly performs, providing your plants with the right lighting environment for lush, healthy plant growth.



Holland Secret's Bada Bing, Bada Bang, Bada Bloom

Modern gardening systems require cleaner, sediment free liquid fertilizers that will not cause salt build-up and line clogs.

Holland Secret's Bada Bing, Bada Bang, and Bada Bloom is the sediment free nutrient that does just that!



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