

# GARDENERS SUPPLY COMPANY

## LED Compact 2-Tier SunLite® Garden

Our Vermont-made SunLite® Gardens employ the latest in lighting technology to give your plants the ideal quality and intensity of light for optimum growth. You can start plants from seed, grow herbs, houseplants, succulents and even orchids..

Our ultra-light fixtures have a slim profile to give plants plenty of headroom. They measure a full 14" wide to ensure even light coverage across each shelf. Inside, there are two LED bulbs that produce an abundance of brilliant, full-spectrum light. These bulbs use half the electricity of fluorescent bulbs and provide up to 50,000 hours of use.

Each fixture has its own pull chain for easy height adjustments, plus electronic ballasts to eliminate buzzing. This complete light garden includes frame and fixtures, LED bulbs, watertight trays and casters.

### Parts Included

Parts Included		Hardware:	
	Qty.		Qty.
<b>Frame:</b> S1L Vertical Bars	2	Ball Chains	4
S1R Vertical Bars	2	Chain Connectors	4
S2 Vertical Bars	2	Split Rings	4
S3T Side Bars	2	Chain Grips	4
S3B Side Bars	2	¾" Bolts	2
A3 Bars	2	2" Bolts	22
A4 Shelf Bars	4	End Plugs	4
Poly Trays	2	Bolt Caps	6
		Casters	4
		Caster Inserts	4
<b>Lights:</b> Light Fixture Hoods	2	<b>Tools Required</b>	
Ballasts with LED Bulbs	4	Phillips screwdriver	
6' Electrical Cords	2	Needle-nose pliers (optional)	
		Rubber mallet or hammer (optional)	



### Frame Assembly

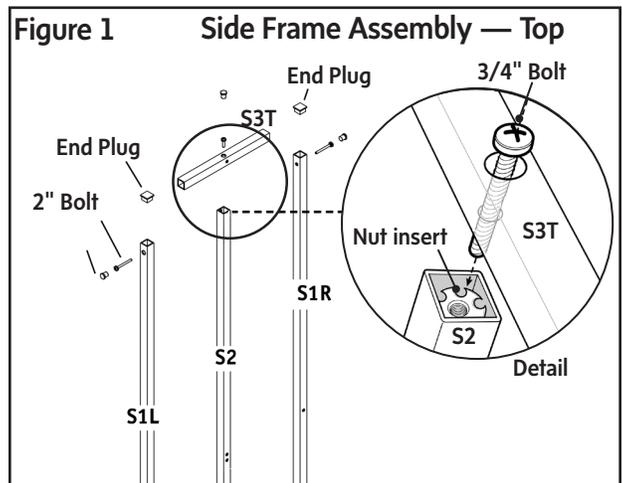
Please read through all the instructions and identify all parts before beginning assembly.

**Step 1.** Organize all parts on a flat, clean surface. All frame parts are labeled with a letter and number. See parts list. Use a hammer or rubber mallet to tap an End Plug into the tops of each S1R (right) and S1L (left) Vertical Bar. **Important note:** The top of the S1R and S1L Bars have bolt holes through 2 sides of the bar. The bottom of the bars have bolt holes in all 4 sides of the bar.

**Step 2.** Take an S2 Vertical Bar and find the nut insert located inside the end (Figure 1 detail). Using the shorter ¾" bolt, connect an S3T Bar to the top of the S2 Vertical Bar by screwing the bolt through the S3T bar and into the nut insert (Figure 1 detail). The Bolt will be fully inside the S3T when tightened. **Important note:** Orient the the S1L and S1R Vertical Bars so that the largest holes at the bottom face the outside of frame.

**Tip:** Make sure the bolt enters the nut insert straight. If the nut insert is off center, use a hammer and a bolt to tap the sides of the nut insert gently until it is level.

**Tip:** You may need to loosen bolts as you go through the rest of the assembly, so only partially tighten them for now.



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**Step 3.** Using a 2" bolt, attach an S3B Bar to the bottom of the S2 Vertical Bar (Figure 2).

**Step 4.** Connect an S1L and an S1R Vertical Bar to the ends of the S3B (Figure 2). **Important:** Insert the bolt through the large hole in the vertical bar first, then the small hole, then the nut, so that your screwdriver is inside the bar when tightening. The head of the bolt will be flush against the inside wall of the S1L and S1R Bars when tightened. Attach the S3T between the S1L and S1R (Figure 1). You have just finished the first Side Frame.

**Step 5.** Repeat Steps 2 through 4 to assemble the second Side Frame, then firmly tighten all bolts on both Side Frames, making sure the bars are flush with one another.

**Step 6.** Connect the ends of an A3 Bar between the top S3T Bars (Figure 3). The open track of the A3 Bar should face toward the ground. Insert the bolts through the predrilled holes in the S3T bars, then screw the bolts into the ends of the A3 Bar on both ends (Figure 3). Connect the remaining A3 Bar to the middle tier.

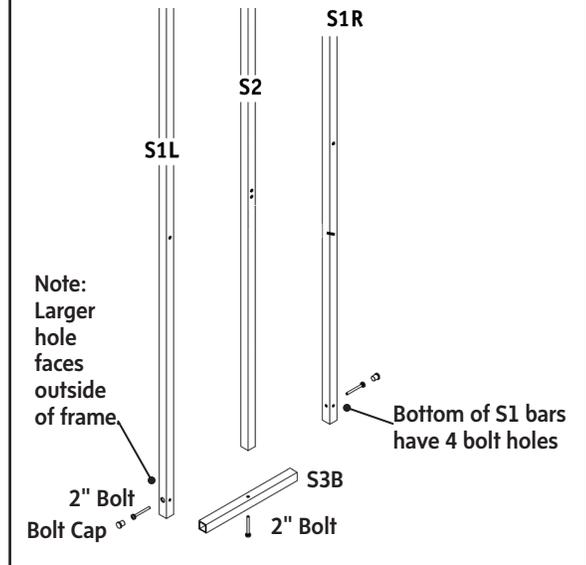
**Step 7.** Connect the A4 Shelf Bars to the S1L and S1R Vertical Bars at each tier (Figure 3). Each A4 Shelf Bar is box-shaped with a thin flange. Make sure the wide flat side of the flange is flush with the outside of the S1 Bars on each side and pointing toward the top of the unit. The box-shaped portion of the Shelf Bars are positioned inside to hold the Poly Trays.

**Step 8.** You may now tighten all bolts on the frame, holding the bars in place as you tighten. With the frame upright, make sure all outside edges of the bars are flush and secure. Adjust, as necessary.

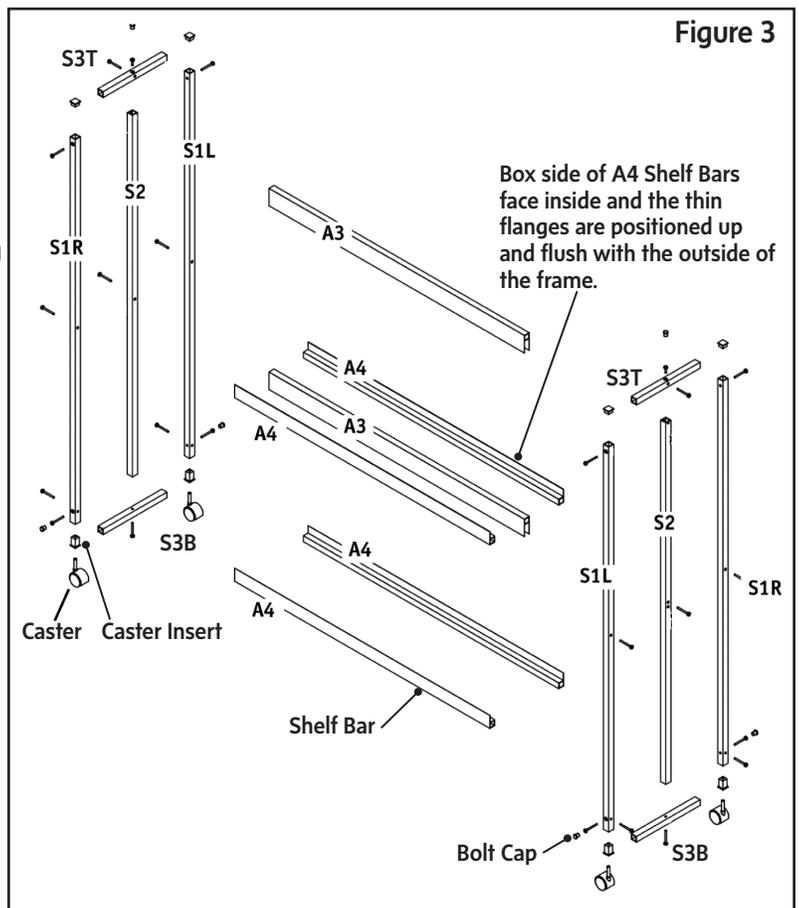
**Step 9.** Gently lay the entire frame on its side. Place a Caster Insert into the bottom of all four S1 Vertical Bars. Firmly push a Caster into each insert until it clicks into place (Figure 3). Use a mallet, if needed.

**Step 10.** Stand the unit upright. Cover all the bolt holes with Bolt Caps (Figures 1 and 2). Place Poly Trays on the A4 Shelf Bars. The frame assembly is finished.

**Figure 2 Side Frame Assembly — Bottom**



**Figure 3**



## Assembling the Light Fixture

**Step 1.** Place a Light Fixture Hood upside down on a level surface. This will reveal the Ballast Clips inside (Figure 4). **Important:** Remove the LED Bulbs to prevent breakage during assembly by twisting them 90 degrees and sliding the pins through the slots (Figure 5)

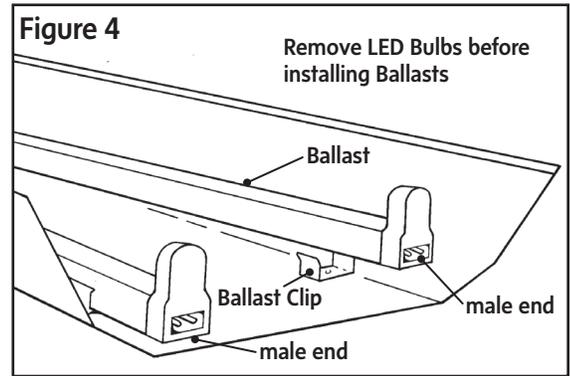
**Step 2.** Examine a Ballast and note that one end of it has an open pin (female) socket and the other end has a closed pin (male) socket. **Important:** Place two Ballasts into the Hood so that both male ends are facing the same direction, as shown in Figure 4. Push a Ballast into each set of Clips, making sure to center the Ballasts in place.

**Step 3.** Plug both ends of the Electrical Cord into the male ends on the Ballasts.

**Step 4.** Reinstall the LED Bulbs by sliding the pins on the Bulbs into the Ballast sockets, then gently twisting the Bulbs 90 degrees until they "lock" into place (Figure 5). Do not force the Bulbs into place. **Tip:** If the LED Bulbs look misaligned, press on the white plastic cover to pop it back into place (Figure 6).

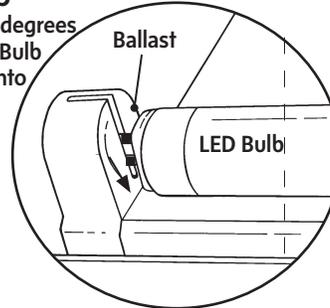
**Step 5.** Repeat Steps 1-4 to assemble the other Light Fixtures.

**Step 6.** Place one Light Fixture on each Poly Tray in the assembled Frame. Turn them over so that the Tubes are facing down and the Power Cords are on the same end of the Frame. Remove the protective plastic film from the black side of the Light Fixture Hoods.

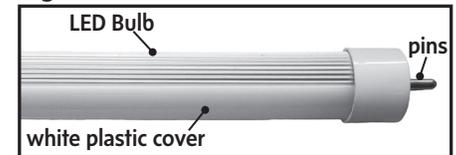


**Figure 5**

Twist 90 degrees until the Bulb "locks" into place.



**Figure 6**



## Ball Chain Assembly

**Step 1.** Attach a Chain Connector to each Split Ring (Figure 7, detail). If necessary, use needle-nose pliers to pry open the Split Rings.

**Step 2.** Connect one end of a Ball Chain to the Chain Connectors on the Split Rings. The last ball of the chain will "snap" onto the connector.

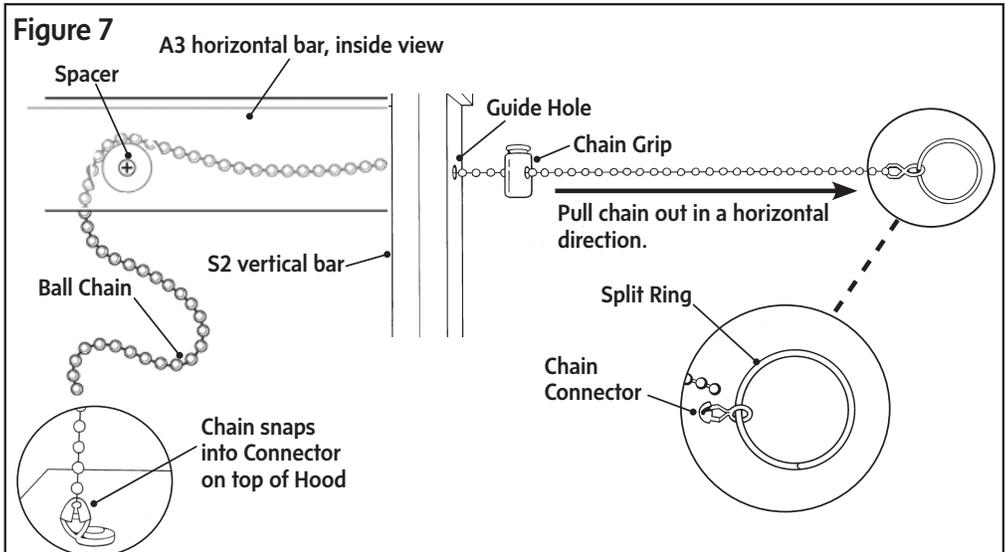
**Step 3.** Take the loose end of each Ball Chain and thread it through a Chain Grip (Figure 7). Then, thread the Ball Chain through the drilled hole in the S2 Vertical Bar and over the Spacer, as shown in Figure 5. **Tip:** To make it easier to install the Ball Chains, tip the assembled Frame onto its side so that the chain drops down into the hole and over the spacer. Repeat to install the Ball Chains on both sides and all tiers of the Frame.

**Step 4.** Place Poly trays and assembled Light Fixtures onto each tier of the Frame. Attach the Ball Chains to the Light Fixtures by snapping the last ball of each Ball Chain into the Chain Connectors that are pre-installed on the top of each Light Fixture.

## Adjusting the Light Fixture Height

**Step 1.** Check the Ball Chains to make sure they are correctly positioned and move freely through the Chain Grips when pinched.

**Step 2.** Adjust the height of the Light Fixture one side at a time. Pinch the Chain Grip and pull the chain out vertically (Figure 7). This will allow you to adjust the height of the Fixture with the least amount of resistance and protect the Chain Grip from abrasion. **Important:** Support the Light Fixture with one hand until you are sure the Chain Grip "catches".



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### **Fixture Use and Safety**

- Always turn off the power to the Light Fixtures when inserting, adjusting or removing LED Bulbs. If you insert a LED Bulb when the power is on, it may trigger an auto safety mechanism, resulting in the light shutting off. If this happens, turn off the Fixture; make sure the LED Bulbs are fully seated in the tube sockets; wait for thirty (30) seconds, then turn the Fixture on again. This will reset the Light Fixture so the lights operate normally.
- Use the power cord only with a properly grounded electrical outlet or power strip. Do not use with a two-plug outlet or extension cord unless the adapter you use is properly grounded.
- If water is spilled near the power source, unplug the unit before you wipe up the water.
- Do not put objects on top of the Frame or on Light Fixture.
- For best results, attach a timer to your lights to control the length of time the lights are on and to be sure your plants get adequate light.

For articles and tips on seed starting and growing under lights, plus more seed-starting systems and supplies, please visit us at [www.gardeners.com](http://www.gardeners.com).