

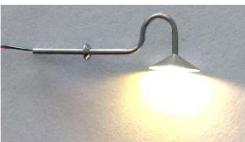
# 1:48 Scale Greenthumb Greenhouse



Glass dome sold separately

## Items included in this kit:

Battery cell with LED light  
Overhead lamp

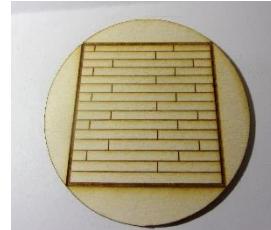


A

- A. 3 piece laser cut wood base with coin cell battery cut out
- B. Laser Engraved Flooring - 1/16" maple
- C. Greenhouse structure walls (engraved fronts)
- D. Laser cut door frames (inside and outside) 1/32" maple
- E. Laser cut doors and door overlays (2) 1/16" maple doors and 4 1/32" maple overlays and 1 upper door overlay to be used to secure acetate for window.
- F. Wood strips and 1/16 x 1/16 wood beams



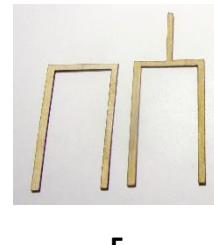
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D



E



F

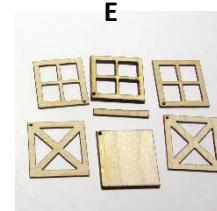


## Lase Cut Kits:

- Potting bench
- Trestle bench
- Seed box
- Three-tiered wood plant stand
- Stool

## Other:

Acetate for "glass"



## Please read all directions first including the tips that follow

1. Trace the walls and roof onto paper. Cut out pattern. Save for later.

2



2. Glue three base pieces together-- the 2 marked and one ring, making sure all the edges are flush especially the two cutouts in the middle, they must be flush in order to fit the battery and switch! Clamp and let dry.

3. Sand edges until smooth. Paint base pieces. (I used green), be sure to get inside the ring (it will show through glass) and all along outside.

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4. Fit the battery pack into the holes with the on/off switch facing downward. Lightly sand if necessary to get snug fit. The battery should sit nicely and not fall through the hole but be able to switch out batteries when needed. Set aside.

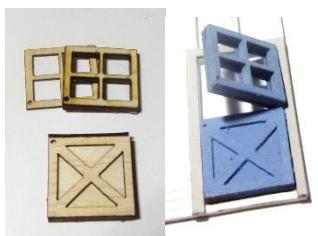
5. Prepare all wood pieces. Painting or staining laser cut wood can be difficult unless you prepare the wood first. Laser cutting leaves a "soot" where the pieces are cut.

Option 1: Use a q-tip dipped in denatured alcohol and rub along charred edges to remove soot.

Option 2: Use Liquid Pumic or Orange Goop Hand Soap (waterless) and a toothbrush to gently scrub around the edges. This option is not recommended for the smallest pieces that may break.

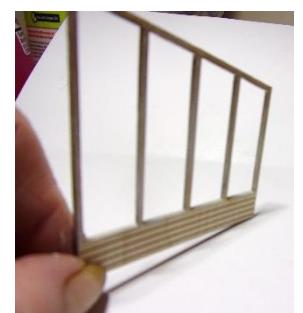
6. Stain or paint door and door overlays. Door and frames could also be painted color of your choosing.

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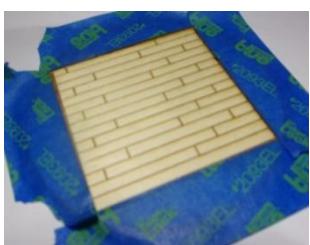


7. Glue overlays to front and back of the doors, but be sure to add "glass pane" cut from acetate under one of the door overlays.

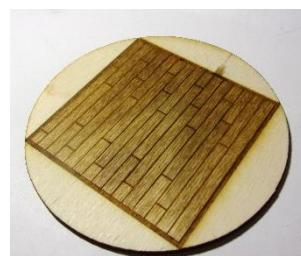
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8. Paint inside and outside of walls and roof. No need to paint the top and bottom as I found it makes it harder to glue pieces together. I now only wipe paint that has seeped over the edge from areas that will be glued. Start with a thin coat over the charred edges. Let dry. Apply a thin coat over entire piece. Let Dry. Sand with fine grit sandpaper any parts of the wood where the grain has been raised or there is roughness in the paint. Apply final coat. Be careful of all the corners and make sure the paint has not gathered in the corners.



Use painter's tape to tape around the engraved wood flooring.



Stain flooring color of your choice



Paint outside of flooring as grass, a sidewalk, and/or flower beds.

9. Use pattern to cut acetate. Leave a very small gap between the edge of the acetate and the edge of the wood. Leave room around edges for wood to stick to wood rather than trying to glue wood to acetate.

10. Wear gloves and carefully glue acetate to the inside walls. Let dry.

11. Stain or paint 1/16" x 1/16" sticks. They will go into the corners to help cover acetate. Once the acetate and wood strips are in place.

12. Stain or paint trim strips. Glue to base of walls and along top like crown molding. These strips will also help hold the acetate in place. There should be 1/16" on the side of each strip of wood.

13. Start with the shorter front piece and glue into engraved slot on floor, tape in place. Glue one side (without door) into its slot and up against the side of the front piece.

14. Thread wire for long arm light fixture through hole. Poke through acetate with pin vise). From the interior wall to outside and glue light fixture in place. Run the light wire through the drilled hole and down the channel, gluing in place. The door trim piece will cover the wire.

15. Glue this wall into engraved grooves on flooring and butting up against front wall. The angled walls should fit inside the front and back walls. Secure with tape to let dry. You may wish to keep the fourth wall open to attach to a house or for a scène where you rearrange furnishings.

16. Glue 1/16" x 1/6" sticks into corners to cover edges of acetate and secure walls together.

17. Use a pin vise to drill a hole where the door trim touches the floor, thread all wires through the hole and run down to the connectors for the coin cell battery.

18. Connect the wire from the light fixture to the wire from the battery. Untwist bulb wire to separate the two colors. Connect red wires together and twist.

19. Repeat with opposite wire (black/green). Insert battery into holder and click switch. If the light does not come on, check the wire connections and try again. Do not secure in place until final step.

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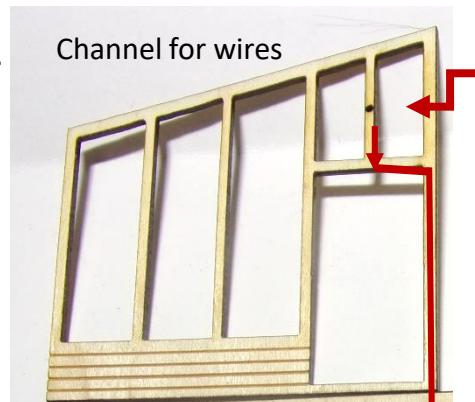


Top and bottom trimmed with wood strips

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14



18



20. Slip one black tube down the black wires and one down the red wires. Twist together black wires until tight and then slide tube down to cover the twist. Repeat with remaining wires (red to green).



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Secure wires with tubing

20. You can use a heat gun or hair dryer to shrink the black tube and it will secure the wires in place in place. Tuck wires into the groove channels of the base until all the slack has been taken up when you can sit the flooring on the base tightly.

21. Glue trim around outside of doorways, the front trim will cover the wire for the lamp.

22. Assemble furnishing kits according to package directions. Arrange as desired and glue or use museum max or other medium to secure in place. You will need to do this so when you lift the dome to turn on/off the switch your accessories stay in place.



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23. Glue felt pads to bottom of base to raise it so that the light switch is not protruding past the entire piece. You want to be able to pick up the finished dome and click the on off switch underneath.



### Other ideas:

Use the MiniEtchers garden kit to add wheelbarrow, watering can, planters and birdhouse.

Use MiniEtchers 1:48 scale pots to fill with greenery.

Order MiniEtchers cactus plants for a variety of plants growing in the greenhouse.

Use Diorama bushes and flower clumps around outside in flower beds.

Thanks for purchasing this kit. Be sure to send me a picture to post on my web site.

Your feedback and suggestions are welcome.

Shellie Williams  
Mini Etchers  
[www.minietchers.com](http://www.minietchers.com)

For a video on how to install LED lighting visit:  
<https://www.youtube.com/watch?v=VUXDx8SGmPw>

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