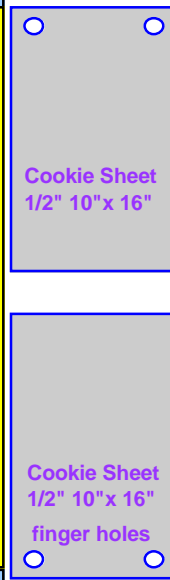
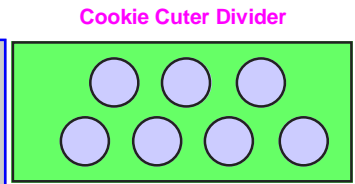
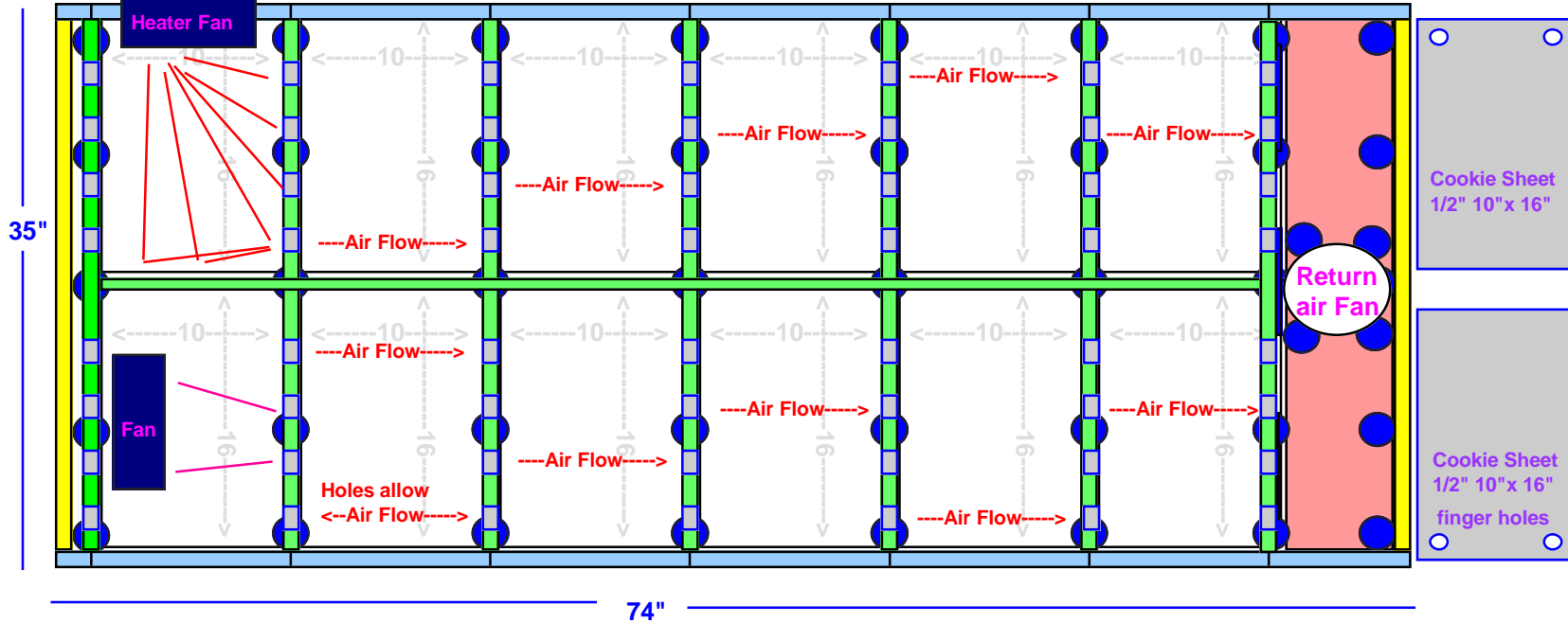


MAKE SURE THIS HEATER IS NOT TO HOT

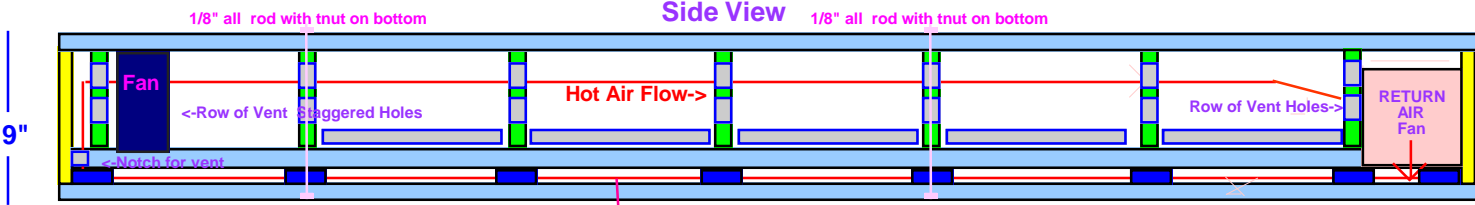
Top View

Pinewood Derby Paint Curing Box by: Mark Jones 12-12-2008



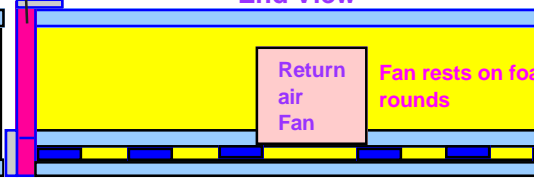
74"

Side View

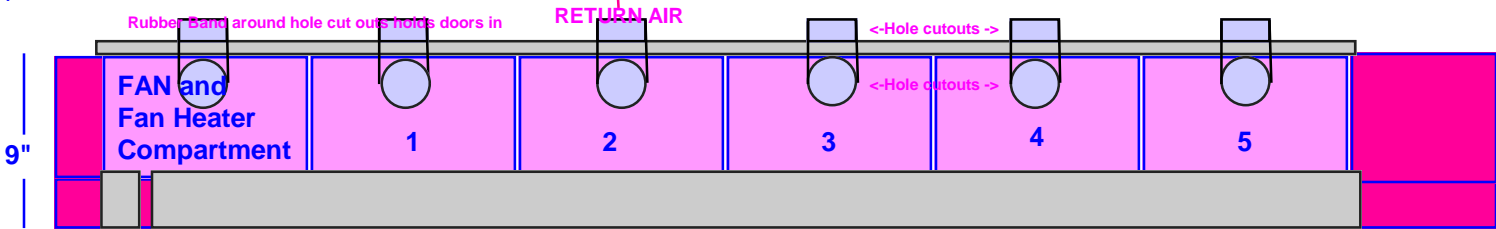


Small finish Nail Holds door in

End View



9" x 35" Ends



2.5" hole cutouts give Rubber band a place to wrap around and holds the door in place and gives door a handle

Cut Sheet

- | Qty: | Size: | Description: |
|------|---------------------|--|
| 42 | 7/8x2"x2" | spacer strips (hole saw cut outs) blue foam holds bottom air plenum in place |
| 14 | 7/8x7"x17" | cookie Tray alignment strips and top support strips with 2 1/2" hole saws cut in them to allow air flow. |
| 1 | 7/8x7"x68" | cookie Tray stop strip and center top support. |
| 2 | 7/8x11"x74" | side bottom plenum cover from end to end. Cut 6 Doors out of middle of this 9x11 |
| 1 | 4" x 4" x6" | Heat Duct Booster Fan. |
| 2 | 7/8" x 35" x 74" | Top and Bottom Panels |
| 1 | 7/8"x 35" x 72" | Middle Panel must cut out air flow holes using 1"x 4" notches starting 2" from ends |
| 2 | 7/8" x 7 1/8" x 35" | End Plates one has Fan cord Hole. |
| 10 | 1/2x10"x16" | Foam cookie Sheets |
| 4 | 1/2" x 2 1/2" x 66" | Door Keepers two on top and 2 on bottom flush with bottom. |
| 2 | 7/8x 9"x 74" x | Side Panels |

- Material Purchase List:**
- | | |
|---|---------|
| 3 1"x4"x8' Blue Foam Lowes. | \$36.00 |
| 1 4"x4"x6" fan heat extender induct type | \$14.00 |
| 1 Gorilla Glue "for foam" | \$11.00 |
| 1 1/2" 4x8 Blue Foam sheet (cookie sheet) | \$11.00 |
| 2 Walmart heater fans | \$30.00 |
| 1 lb of sheet rock screws 1.5" | \$4.00 |
| 4 1/8" all rod nuts and washer and nut. | \$6.00 |
| 1 package of Rubber Bands | \$3.00 |

Total \$115.00

Assembly instructions

- 1. Cut Top and bottom panels 35"x74**
- 2. Cut Middle Panel 35x72 on one end cut out a 4" hole for fan centered 1" from end on other end cut out a notch 1" in to 14" 1" deep. mirror this on other side.**
- 3. layout cookie tray alignment strips down both side and center and top**
- 4. Rip 2 side panels 9 x 74 cut out 6 doors neatly. They should break in middle of alignment strips.**
- 5. Rip 2 end plates 7 1/8"x35" cut a hole in one for Fan cord.**
- 6. Rip cookie tray alignment strips 7x17" and use 2" hole saw and save centers for spacer strips.**
- 7. Glue 2 1/2" hole saw cutouts around edges and center and under cookie sheet alignment strips.**
- 8. Glue middle panel on to bottom panel so it sits on top of the cutouts with 1" inside both ends.**
- 9. Glue on edge tray alignment strips and end plates.**
- 10. Glue fan in place with flow going pointing down.**
- 11. Glue top panel in place.**
- 12. Glue on side panels and glue on 1/2" x72 doors keepers and locks.**
- 13. Glue on the 2.5" circle cutouts on the doors and on top of the box to act as a door knob and a wrap around for the rubber band to keep the door drawn up tight.**

How this works.

Cars are spray painted using a painting block that have four 1.5" screws run up through a 1/2 piece of plywood cut to 3" x 8" long. 1 pair of screws poke through each end of the plywood block so the screw points support the pinewood block car bottom while it is being painted. This allows the car to be moved around while it's in the finishing process.

Car has been freshly painted. Pickup the car by using your fingers to grasp the sides of the 3x8" long block then place it on the 1/2" 10x16" foam cookie sheet and place it in the paint car curing box. One fan and one fan on heat will keep the box at 145 degrees and the fan will circulate the warm air from one end to the other end flowing the whole length of the paint car curing box. In 20 minutes the car will be ready for another coat of paint. Remember many and light coats of paint.

The hardest thing was to find a 750 watt to 1500 watt heater fan that would do the job. I tried several and found them to be too hot or not hot enough. I used two \$15.00 walmart rectangular heater fans. One supplies the heat drawing external air from the room and shoots it into box and the other one on the other side helps to circulate the heat. Heat inside the box is at 130 degrees.

Comments, improvements or what works best for you can be emailed to: mjones02@centurytel.net