

Conowingo Models



Bobber Boxcar

HO Scale



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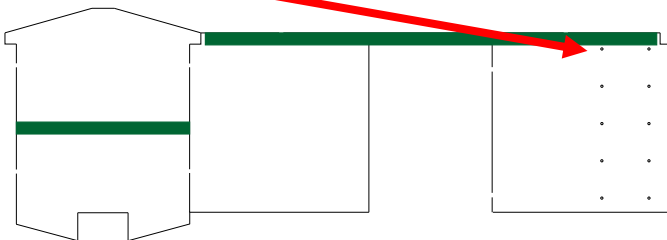
Thank you for purchasing this kit!

The enclosed boxcar is fictional. Therefore, do whatever you wish to with it. After all, it's your model railroad!

Supplied are the basic directions. For more tips and some additional instructions, including the most up-to-date version please see conowingomodels.com

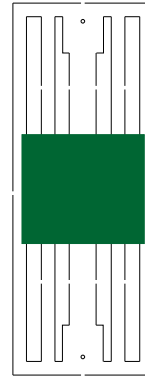
BRACING

1. Brace the walls as shown below on the inside using 1/16 x 1/16 stripwood. (2X) Be careful not to cover the ladder holes.

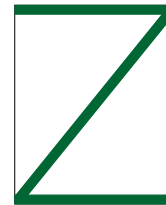


2. Take the two nearly square pieces that are on the same piece of 1/16 basswood and glue them

together. These pieces are supports for the trucks and will ensure you get the proper width. Once that is done, center them on the body and glue into place with the long side being the width.



3. Reinforce the doors (2X) as shown below using 1/32 stripwood. Ensure the long side of the door is vertical.



PAINTING

4. Brown (or chosen boxcar color) We used Apple Barrel Chocolate Bar Brown
- 1/32 x 1/32 stripwood (except one piece)
 - 1 piece of 1/16 x 1/16 stripwood
 - Both doors
 - All four walls
 - Roof walk pieces (as desired. See step 10)
- Black
- Trucks
 - Wheels
 - Coupler pockets/possibly couplers
 - Underside of the body

5. To age the decking, scrape the 1/32 x 3/32 stripwood with a hobby knife, scuff it with a sanding block and/or cut the edges off as you feel appropriate.

6. Stain the 1/32 x 3/32 stripwood. We did splashes of Hunterline Blue Grey, Railroad Tie and Driftwood to create an uneven effect.

ROOFING

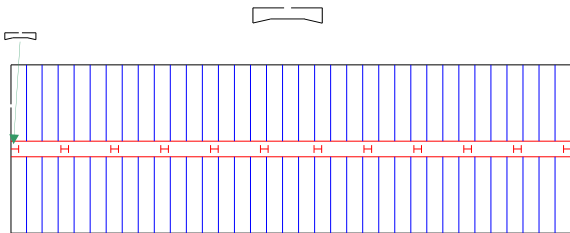
7. Since this kit is derived from the 24 and 36 foot boxcars, we decided to not mess with what worked. With this kit, you have the option to do a metal or

tarpaper roof. We also included some of the extra parts you would need should you decide to add a walkway.

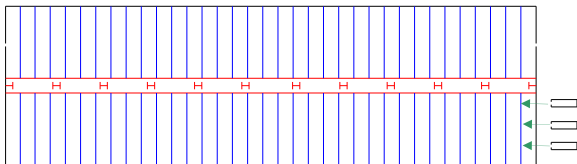
- 8. Regardless of your roofing choice, we recommend running pieces of 1/16 x 1/16 stripwood down the underside of the roof, leaving ample room for the roof to rest on the walls.
- 9. If you are using tarpaper, we recommend following the preparation instructions by Jason Jenson. To find them, look up **Jason Jenson Trains** on Youtube and look for episode 010.
 - The width of the tarpaper should be cut to 3/8 inch.
 - You could also slightly modify that same instruction and apply the tarpaper to the roof as a single piece.

- 10. (Optional) If you are looking to add the roof walk-
This instruction was added here because it made sense to add it here. However, we'd recommend holding off until the roof is installed so as to not interfere with the installation.

- 10a. Glue the roof supports onto the Hs as shown below. The rounded side should straddle the center. (Only one shown for clarity.)

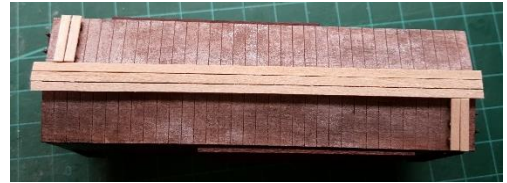
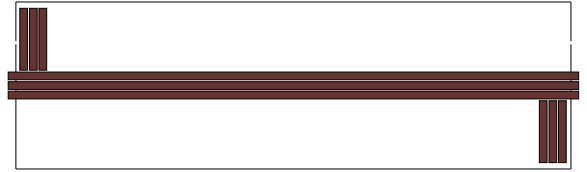


- 10b. Glue down the roof supports for the ladder accesses on the right forward and left aft sides of the roof. (Only left aft shown)



24-Foot Boxcar shown

10c. Size and glue down the stripwood on the ladder accesses.



36-Foot Boxcar shown

DECKING

Decking is optional if you are planning on displaying the boxcar with the doors closed.

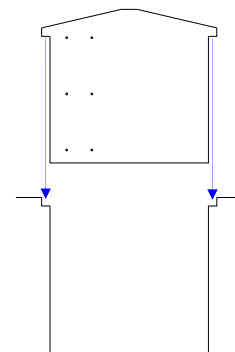
- 11. Cut the 1/32 x 3/32 stripwood to fit just inside the width of the body. There needs to be no overhang so that the sides fit properly. In the door area, the decking should come right up to the door.
- 12. With the top side is up, glue down the stripwood as shown. Ensure you leave a small gap between the pieces to prevent buckling if you do more painting/staining to it. A few not-so-perfectly-aligned pieces add "signs of life" to it.



- 13. Flip the car over and add a weight so that the deck dries evenly.

WALL ASSEMBLY

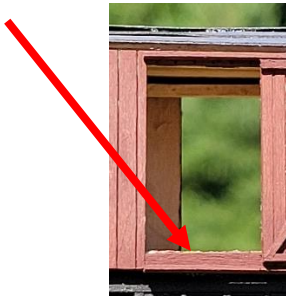
- 14. Assemble the walls using the four pieces as shown below. Ensure the ears on the ends hook over the side walls. (there are no ladder holes on the Bobber)





- 15. Place the walls over the flat car so that the side walls cover the body. You may need to trim some of the deck boards. Once you're happy with the fit, glue the walls to the deck.

- 16. Size and cut and glue into the bottom of the doorways the piece of painted 1/16 x 1/16. Do not throw away the rest of the 1/16 x 1/16.



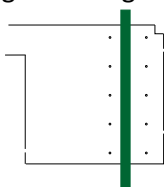
WEIGHTS

- 17. You should install any weights (not included) at this time. The unweighted pilot model weighs in at .95 oz. According to NMRA standard RP-20, this car would be properly weighted at 2.5 oz. The pilot model seems to do well with no additional weight. However, it doesn't run on the track every day.

If you intend to meet the standard, we recommend adding an even amount of weights to the front and rear interior, so it will be out of sight. You could also hide the weights underneath "boxes" or other cargo.

LADDER INSTALLATION

- 18. This kit comes with drop grabirons. To install take the following steps one side at a time-
 - 18a. Apply some CA to the inside of the boxcar where the holes for the grabirons are.
 - 18b. Turn the car sideways and place a piece of the leftover 1/16 x 1/16 vertically (if the car was upright) under where the grabirons go.



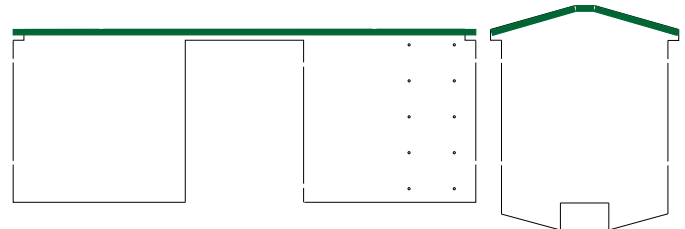
- 18c. Carefully insert the grabirons into their respective holes and let dry.



- 18d. Repeat for opposite side.

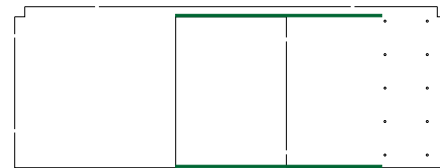
ROOF INSTALLATION

- 19. Install the roof, being sure that all sides are squarely in place. Ensure all sides are glued down.
- 20. Fit, cut and install 1/32 x 1/32 trim pieces around the top of the car. You may need to add a little bit of wood putty to fill any gaps.



DOOR INSTALLATION

- 21. Very carefully, sand down the unpainted piece of 1/32 x 1/32 stripwood. This is to form the door tracks.
 - 21a. Utilizing the doors, sand down the door tracks to fit into the desired location as shown below. You want the doors to fit between the tracks.



- 21b. When you are happy with the fit, glue the tracks and door into place. The doors can go anywhere along the tracks.



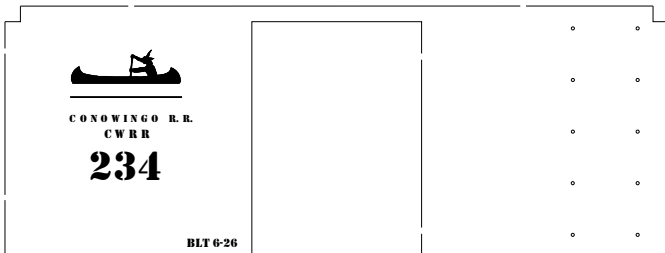
- 21c. Do this with both sides.

TRUCK INSTALLATION

- 22. You will notice that the castings for the truck is off center. Utilizing the wheels, figure out how to best center the truck and glue one side into place.
- 23. Once the truck side in the above step is dry, add glue to where the other truck side will fit. We recommend CA for this step and the next.
- 24. This part can be a little tricky. Insert the wheels into the notches in both sides and gently fit the second truck side into place.
- 25. Ensure the wheels move freely and let the truck dry upside down.

FINISHING TOUCHES

- 26. Assemble the coupler boxes and glue them into place.
- 27. Apply decals as below if you choose to do so.



- 28. Once dry, touch up paint as required and weather as desired.
- 29. Enjoy!

Many thanks to Greg Cassidy, Jeff Grove, Steve Milley, Mark Schreier and my family for their help with this endeavor.

If there are any parts missing or if the instructions aren't clear, please e-mail us and we will make it right.
conowingomodels@yahoo.com

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Thank you for your purchase!

