

Conowingo Models



Caboose #3

HO Scale



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Thank you for purchasing this kit!

The enclosed caboose is fictional. Therefore, do whatever you wish to with it. After all, it's your model railroad! It is loosely based upon a Glory Trains 20' Logging Caboose kit that was offered in HOn3.

We painted this caboose blue and white so that it would stand out. That is the intention of a red – or other brightly painted caboose. Please feel free to deviate.

GENERAL NOTES

This kit utilizes some plywood. It was chosen for its' tough, thin, wood properties. Unfortunately, plywood and the laser cutter do not always play well together. As a result, some of the laser cuts may not go all the way through. For cutting the plywood, we recommend using a tougher blade than the faithful #11 and apologize for any inconvenience that may cause.

We skipped around and learned better ways to do things when we built the pilot model. As a result, some photos

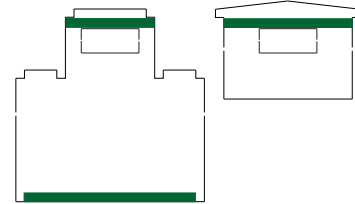
aren't 100% representative of what you should be looking at.

There are also other tips and information listed on our website, on the Instructions page. The file is titled "General Instructions Help".

BRACING

- 1. Brace the walls as shown below on the inside using 1/16 x 1/16 stripwood. You will need to do this twice.

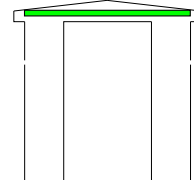
Ensure that you leave the areas below the notches clear so that the sides will fit into place.



- 2. Take a piece of 1/32 x 1/32 and brace the interior walls as shown below. You will do this twice.

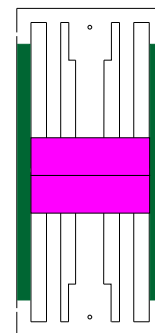
You should cut out and test fit the door to ensure the bracing will fit over the top of it.

Alternatively, you could put two small pieces horizontally across the bottom.



- 3. Take a piece of 1/8 x 1/8 stripwood and cut two pieces that are the same length as the trucks. (Green)

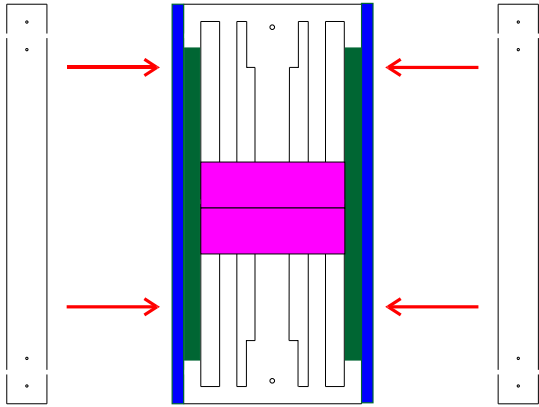
Glue them into place.



- 4. Cut out the two support pieces that are on the 1/16 basswood sheet.

They may need to be trimmed to fit between the pieces of 1/8 x 1/8 stripwood.

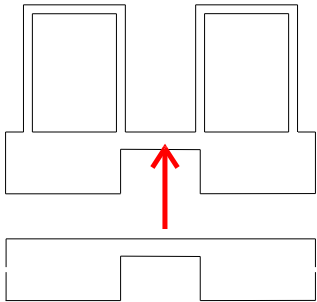
Glue into place. (See above in pink)



- 5. Glue the side pieces into place as shown above. Side pieces shown sideways for clarity.

Ensure the body sits flat when upside down.

- 6. Cut out the laserboard hand rails and glue them to the ends of the car as shown below.



Ensure they fit snugly.

Repeat for the other end.

PAINTING

- 1. Blue (or chosen boxcar color) We used Apple Barrel Award Blue
 - 1 piece of 1/32 x 1/32 stripwood (hand rails)
 - Hand rail assembly (both sides)
 - All walls
 - Laserboard external bracing pieces
- White
 - Both doors
 - 1 piece of 1/16 x 1/16 stripwood (door frame)

- 1 piece of 1/32 x 3/32 stripwood (hand rail tops)
- Window frames
- Windows

- Black
 - Trucks
 - Wheels
 - Coupler pockets/possibly couplers
 - Underside of the body
 - Stirrups

- Silver
 - Smoke jack

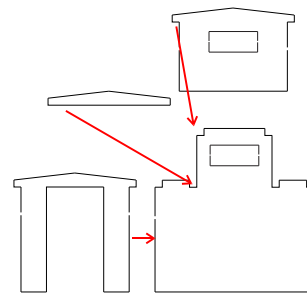
- 2. To age the decking, scrape the 1/32 x 3/32 stripwood with a hobby knife, scuff it with a sanding block and/or cut the edges off as you feel appropriate.

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

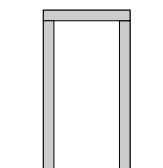
We do not recommend adding nail holes at this time. You want to get the deck in place before that. (We'll let you know.)

BUILDING ASSEMBLY

Once everything is dry, assemble the walls as follows;



1. Place the outer walls parallel to each other. We've found that holding them in your hand can be cumbersome, but seems to work the best. The diagram above shows which pieces go where in relation to the left side wall notches.
2. Slide the inner walls and roof support pieces into place as shown above. Ensure the walls fit together tightly.
3. Once you have a good idea of how it fits together, glue the walls together, ensuring it is square and sits flat.
4. You may use clamps and/or a rubber band to hold the walls in place while the glue dries.



5. Build the door frame for each end out of the designated 1/16 x 1/16 stripwood.
6. Glue the doors into place behind the door frame.

You may choose to position the door so there is a very small space between the bottom of the door and the floor. We did this by accident on another model, but feel that it adds a "sign of life". If you do this, we recommend scuffing the bottom of the door with a hobby knife or sanding so the bottom isn't perfectly even.

At the end, or if you have scrap pieces of stripwood around, you might want to consider cutting and gluing scrap pieces of 1/32 x 3/32 wood to the doors to make them look more three dimensional.

ROOFING

1. If you are using tarpaper for the roofing, we recommend following the preparation instructions by Jason Jensen. To find them, look up **Jason Jensen Trains** on Youtube and look for episode 010.
 - With this model, we decided to apply the tarpaper to each roof surface as single pieces.

2. Cut the tarpaper to the desired size.



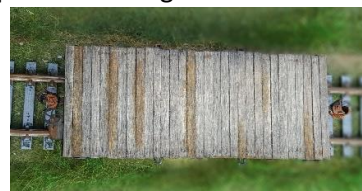
3. Cut out the chipboard roofing pieces (main roof and overhangs)
4. Paint (or use a marker) on the edges and any other planned exposed areas black. We used a black marker on the pilot model.

We didn't paint the undersides of the roof.

5. Glue the chipboard roofing sections into place, ensuring the engraved side of the chipboard faces up, so that it sits neatly on the roof supports.
6. Apply the tarpaper as desired.

DECKING

1. Cut the 1/32 x 3/32 stripwood to fit the width of the body.
2. 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.



3. Flip the car over and add a weight so that the deck dries evenly.
4. When the deck is dry, trim the edges to your liking.

- 5. It's now ok to add the nail holes should you so desire.

WEIGHTS

- 1. You should install any weights (not included) at this time. The unweighted pilot model weighs in at .75 oz. According to NMRA standard RP-20, this car would be properly weighted at 2.3 oz. The pilot model seems to do well with no additional weight. However, it doesn't run on the track every day.

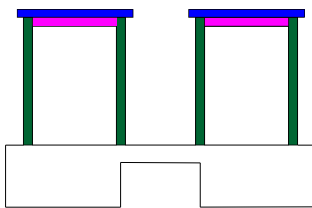
If you intend to meet the standard, we recommend adding an even amount of weights to the interior, so it will be out of sight. Adding weight to the underside may be possible, but you need to be mindful of where the wheels will go.

TRUCK INSTALLATION

- 1. Center one of the truck sides and glue into place.
- 2. 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.
- 3. 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.
- 4. Ensure the wheels move freely and let the truck dry upside down.

HANDRAIL INSTALLATION

Do the next series of steps for both ends



- 1. Cut the 1/32 x 1/32 stripwood that was designated for the handrail to fit as shown above. (Green and pink pieces)
- 2. Lay the laserboard so it is flat with the 1/16 laser cut end facing up.

- 3. Glue the 1/32 x 1/32 stripwood into place as shown above.

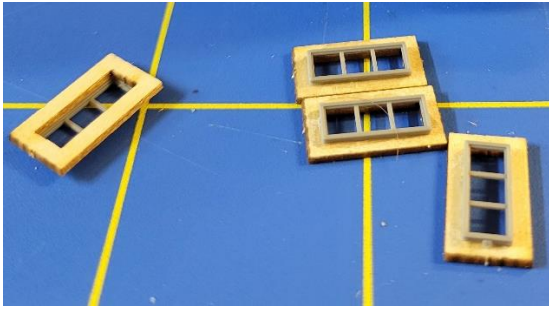


- 4. When dry, glue the ends on with CA. Your model will look different than the one above because we had to modify the end pieces.
- 5. If there is a gap between the side and end pieces (caused by the laserboard), fill it in with wood putty.
- 6. Cut and add the 1/32 x 3/32 wood railing to the top of each hand rail. (See above step 1 in the blue.)

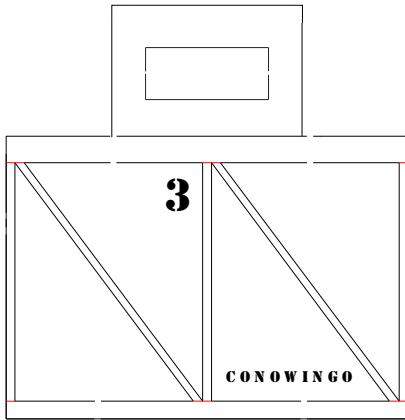
DETAILS AND FINISHING TOUCHES



- 1. Glue the laserboard wall supports into place as shown above on both sides of the building.



- 2. Glue the 4 windows behind the window frames, so they are even.
- 3. When dry, glue the windows into place.
- 4. Locate the position you would like to install the smoke jack, drill a hole and glue into place.
- 5. Assemble the coupler boxes and glue them into place on the body.



- 6. Apply decals as above if you choose to do so.

We chose to keep it very simple due to the size of the caboose.

- 7. Center the building on the body and glue into place.
- 8. Glue the stirrups into place.

With this kit you can deviate in many different places, however, we've found that you want to add the stirrups last. Otherwise, you will be repeatedly gluing them back into place.

- 9. Once dry, touch up paint as required and weather as desired.
- 10. 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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