

Conowingo Models



Repurposed 24-Foot Boxcar

HO SCALE



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February, 2025

Thank you for purchasing this kit!

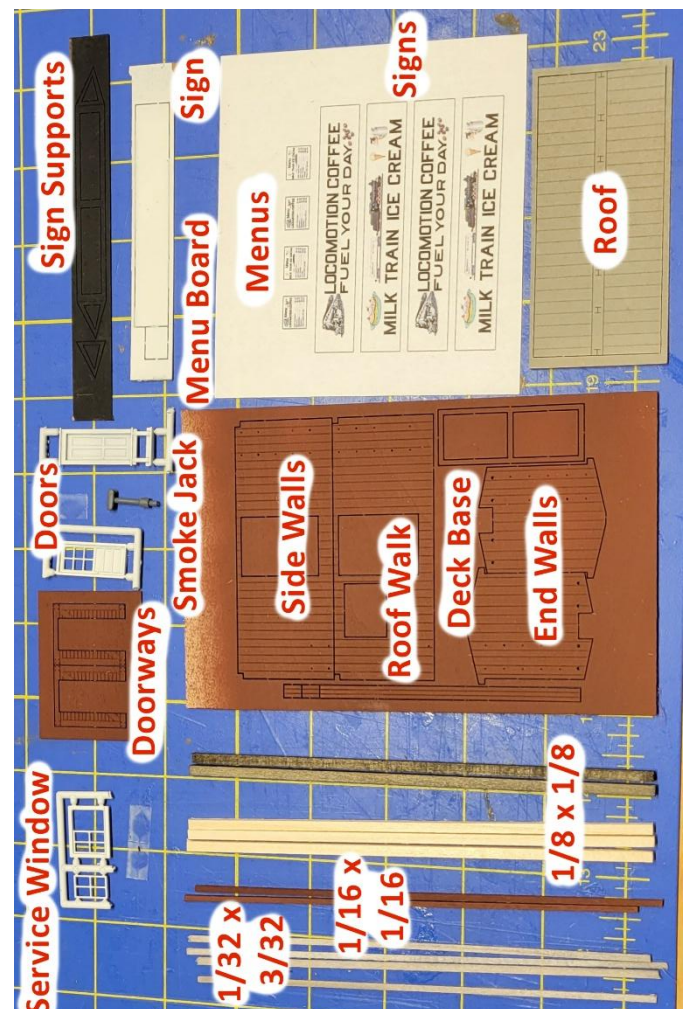
This kit is intended to be a boxcar that has been converted into a retail shop- either a coffee shop or ice cream shop. However, it could be made into a snack bar or whatever you desire. As you become familiar with the parts, you will see where the ladder rungs, coupler boxes and anchors for the truss rods have been "removed" to convert this boxcar into a structure.

The clinic kits may come pre-painted, so that only touch-ups are required. A color chart is provided for regular production kits where there were no pre-painted parts.

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PARTS DIAGRAM

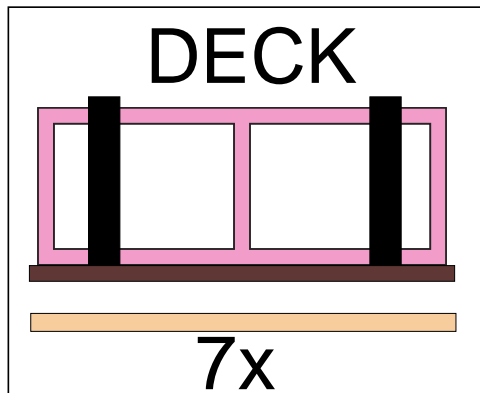


STRIPWOOD PREP

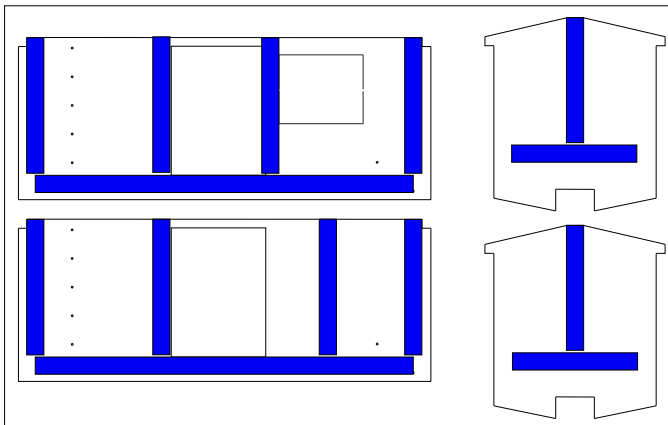
Begin by cutting the braces as shown below. Only clinic kits are pre-painted.

Stripwood Cut Chart				
Size	Color	Length	Quantity	Nomenclature
1/8 inch	Black	1.25 inches	4	Base Supports
1/8 inch	Black	.7 inches	2	Deck Supports
1/16 inch	Brown	1.58 inches	2	Door Track
1/16 inch	Brown	1.78 inches	1	Step Base
1/32 x 3/32	Stain Grey	.83 inches	7	Decking
1/8 inch	None	1 inch	12	Bracing
1/8 inch	None	3 inches	2	Bracing

*Deck pieces should be cut as shown below. Glue together at this time only if the parts have been pre-painted.



BRACING



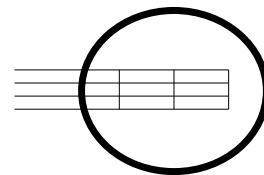
1. Glue the bracing to the insides as shown above.

PAINTING

Color Chart		
Item	Color	Quantity
Sign Support Pieces	Black	2
Deck Base	Brown	1
Door Track 1/16 x 1/16	Brown	2
Doorway	Brown	2
End Wall	Brown	2
Roof Steps	Brown	6
Roof Walkway	Brown	1
Side Wall	Brown	2
Step Base	Brown	1
Roof	Silver	1
Smoke Jack	Silver	1
Base Supports	Stain black	4
Decking 1/32 x 3/32	Stain grey	7
Door	White	2
Menu Board	White	1
Window	White	1 (2 pcs)
Sign	White front/ Black Rear	1

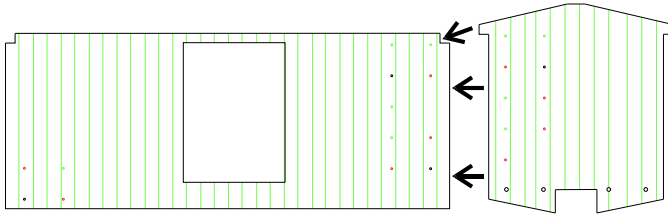
The above chart is provided for non-clinic kits and assumes that you want to paint your kit like the pilot model.

For clinic kits, use the above to do paint touch up at the end.



You will need to cut the roof steps from the roof walk and split them into three pieces each.

BUILDING CONSTRUCTION

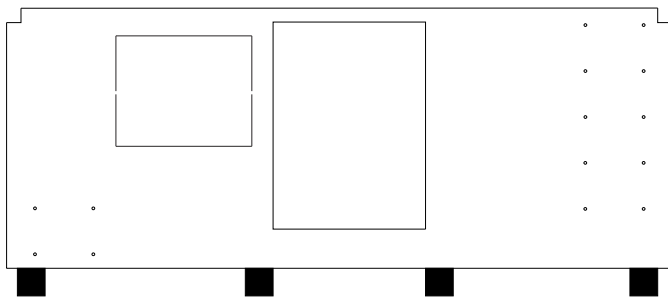


1. Assemble the four walls so that the end walls fit inside the side walls. Two shown above for clarity.

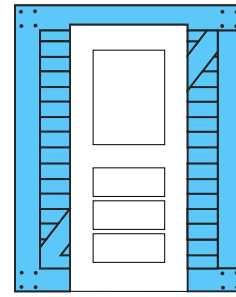
There are notches on the end walls that fit over the top of the side walls and “lock” the two together.

Ensure the building is square.

The bottom of the sides should line up with the bottom of the ends.



2. Glue the four black stained base supports into place under the building as shown above.
3. Set aside to dry.



2. When dry, glue the doors into the doorway pieces as shown above. (Only one side shown for clarity.)

You may want to glue some spare 1/16-inch stripwood to the inside to hold the door and doorway flush with the wall.

You may consider cutting off the bottom of the back step so that the building sits level on the ground. We left it on the pilot model because it looks better and nobody will notice the difference.



3. The service window is a slider. Glue the sliding window into place behind the fixed window. It doesn't matter where you place it.



4. Install the door tracks as shown above.

Note the relation to the wholes on the right where the ladder rungs were previously located and the relation to the service window.

The opposite side is exactly the same, although without the window.

5. Install the doorway/doors and window as shown above.

DOOR AND WINDOW PREPARATION

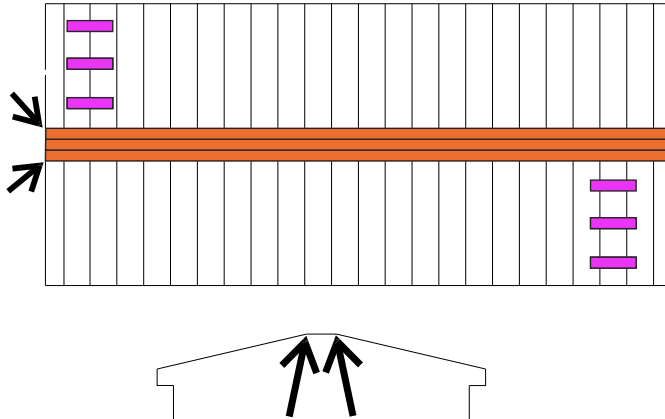
1. Add the window glazing to the windows and the door with the window.

You may need to slightly cut the window edges so that they fit into place.

Be sparing with the glue to prevent unsightly globs.

The door with the window goes on the same side as the service window.

ROOF INSTALLATION



1. Bend the roof along the two guide lines for the roofwalk as indicated by the two arrows.

If you have spare 1/16 or 1/8-inch stripwood, you may want to consider applying it to the center, underside of the roof. This adds rigidity to the roof as you apply it.

2. Glue the walkway to the roof as shown above in orange.
3. Glue the roof to the building, ensuring that all sides are even and don't pop up.
4. Once you are happy with the stability of the roof, proceed to the next step.
5. Install the roof steps as shown above in pink.
6. Decide where you want your smoke jack and mark that location with a pencil.
7. Using a hobby knife (or drill bit, if you have one), cut the hole for the smoke jack.
8. Glue the smoke jack into place.

SIGNS, SIGNS, EVERYWHERE A SIGN



1. Decide which sign you want to use and cut it out.

As stated before, please feel free to make your own signage.

Use the signs on the sheet provided, not the ones above.

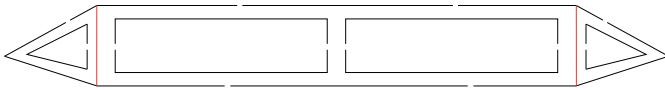
You want the paper to be a little bit bigger than the sign.

We sized the square on the large sign to be 10% bigger than you will need. We recommend using that line as a guide.

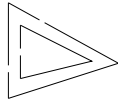
The square on the menu is the correct size. Cut slightly outside of it.

2. Apply glue to the entire white side of the sign, ensuring that it is distributed evenly.
3. Carefully apply the paper to the sign, ensuring there are no bubbles, that the lettering is even on all sides, and is straight and flat.
4. Repeat the previous steps for the menu board.
5. Carefully remove the sign support from the carrier tray, along with the sign structure.





6. The sign structure will have two end supports that need to bend. The bends are shown above in red.
7. Gently score those two bends, so that the end supports will bend at a 90° angle.

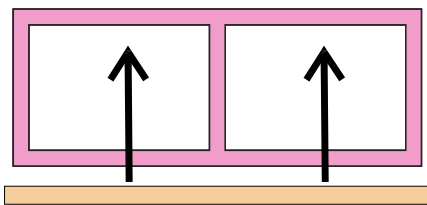


8. Install the sign support on the back of the sign structure, preferably in the middle at the same angle as the end supports.

Ensure the end supports and sign support are at the same angle and not installed upside down.

9. Trim the edges of the sign and the menu board. You may want to sand the edges slightly for a more even look.
10. Once complete, glue the sign to the structure.
11. Install the sign on the front side of the building where desired.
12. Glue the menu board into place, to the left of the service window.

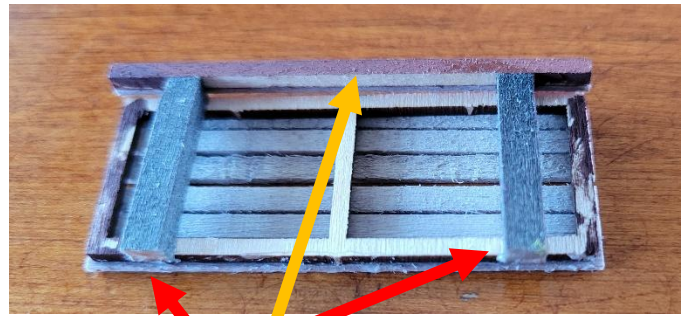
DECK BUILDING



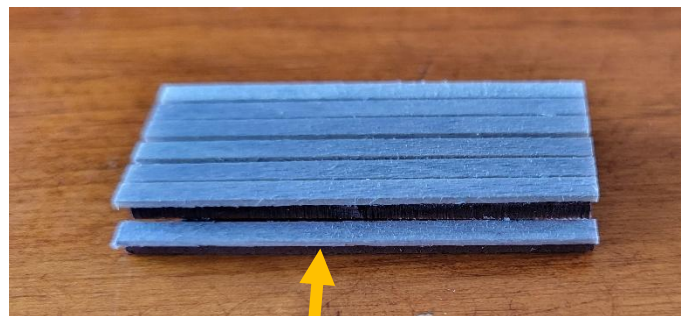
6x

1. Glue the 1/32 x 3/32 deck boards to the deck base as shown above.

Space them as evenly as possible and ensure there is a slight overhang on each side.



2. Glue the 1/8-inch deck supports into place as shown above.
3. Glue the 1/16-inch step base into position as shown above.



4. Flip the deck over and apply the last deck board to the top of the step base.

FINISHING TOUCHES

1. Do paint touch-ups where required.
2. Weather as appropriate.

This boxcar is old. The amount of upkeep determines the amount of weathering the building needs.

We've found that brushing on a light coat of Hunterline Concrete will help age the building. It works well on pre-painted surfaces, but will require some effort to look good. It's not hard, it just requires the drive to stick with it.

The whole building could then use a coat of diluted acrylic grey or black paint to age it.

The smoke jack and roof could use some diluted acrylic orange to represent rust. It could also use

some less-diluted acrylic black over that to represent creosote and soot.

The holes where the ladder rungs and anchors for the truss rods have been “removed” could use a combination of the diluted orange and black to represent rust and rot.

3. Enjoy!

Once again, thank you for your purchase!

If there are any parts missing, please e-mail me what you need to complete the kit and I'll send it your way. I'm a one-man shop and I do occasionally miss things. Also suggestions for improvement are welcome.

Please send photos!

See the Conowingo Models website

www.conowingomodels.com

Or our Facebook page

<https://www.facebook.com/ConowingoModels/>

for more exciting, funky buildings and rolling stock for your model railroad!

Many thanks to my family, Jeff Grove, Steve Milley and Mark Schreier for their support!

