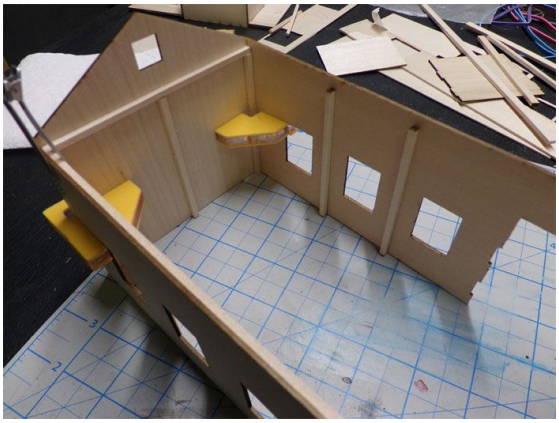
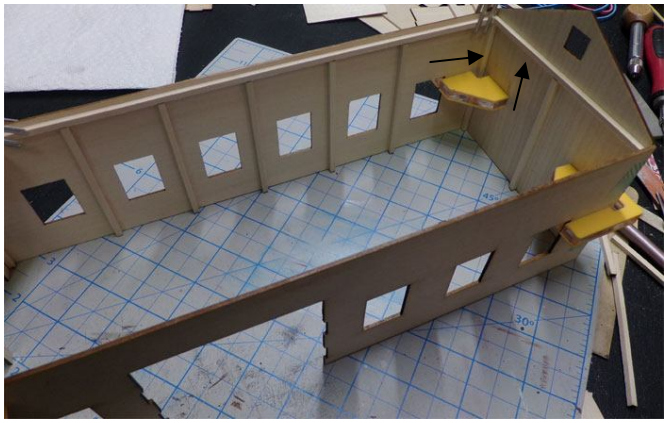
Standard HO Scale 2-Stall Metal Engine House

“2-Stall Metal Engine House” Instructions

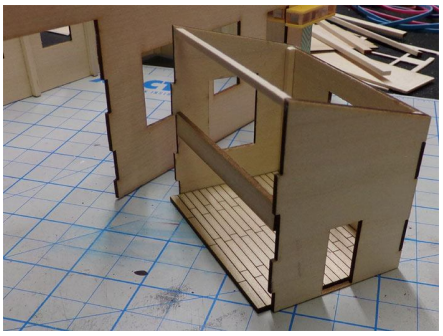
(*First Read The Instructions Completely*) This Model is 12.5"L X 6.5"W X 5"H

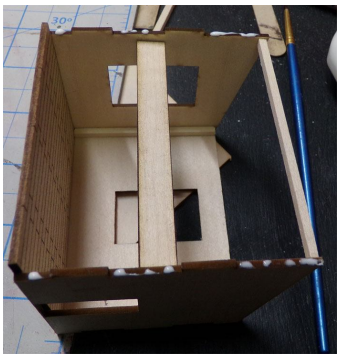
These instructions are made for the 2-Stall Engine House with the Extension Room. These instructions can also apply for the 2-Stall Wide Engine House. **Part #1 is the Wood Framing.**

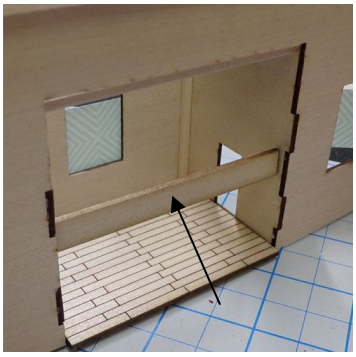




The model has no back end opening or windows. We use the corner magnets and tape to hold the walls together as the corner braces are glued (1/8 X 1/8 X 3 5/8”). The above right image does not show the corner brace ¼” longer. The long 1/8 X 1/8 X 11 5/8” upper side bean will fit blunt against the corner bean. The front and end cross bean (1/8 X 1/8 X 5 5/8”) will fit on top of the corner end beans. Add the side braces between the windows. (1/8 X 1/8 X 3.5”)

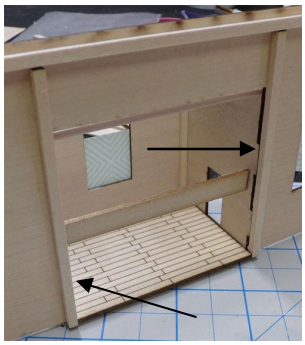






Next the extension walls and floor are assembled. Glue the top cross brace, floor and the 2 back corner braces. (1/8 X 1/8 X 2 3/8”) Do not glue the wide center brace, this holds it open as it is glued to the wall opening. Once the glue has cured a few hours, remove the wide brace.

Below left image shows the last 2 wall bean braces installed. The center image shows the upper and side brace installed.



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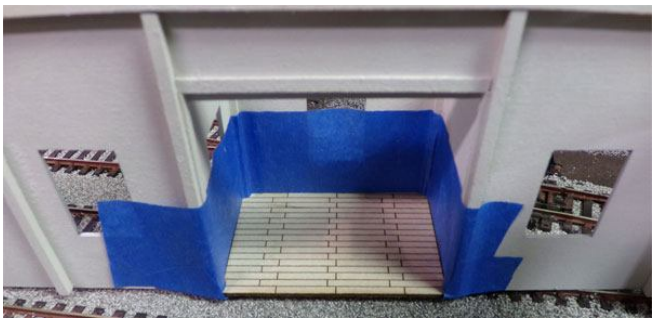
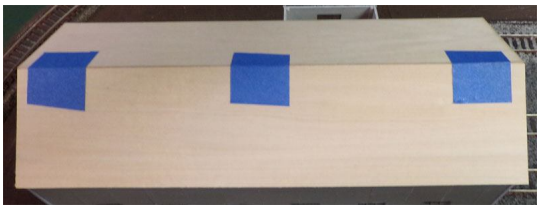
Above image shows the extension room floor taped and the inside walls spray can painted a light gray.
Below image shows the floor walls taped so the floor can be brush painted “Burnt Umber”.

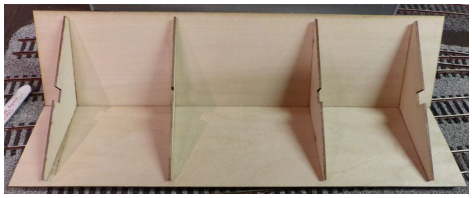


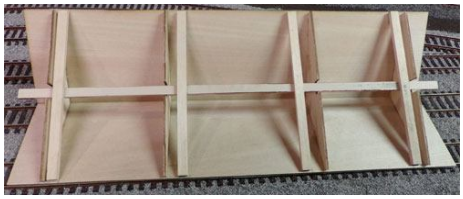
Next is building the light brace. There are (4) 1/8 X 1/4 X 4 7/8” cross braces and (1) 1/8 X 1/4 X 11 7/8” center light brace. The copper tape can be added for light wiring on both side (+ & -).

Your center bean will fit on the end braces. The right demo corner braces were not made tall enough.

The top 2 roof section join edges were beveled sanded at an angle so the top section would fit better at the peak. The inside was glued leaving space for the 4 rafter sections. Set it back on the building to dry. Once dried good flip it back over to add the 4 rafter braces.







If You Have Any Questions, Contact Michael Heonis

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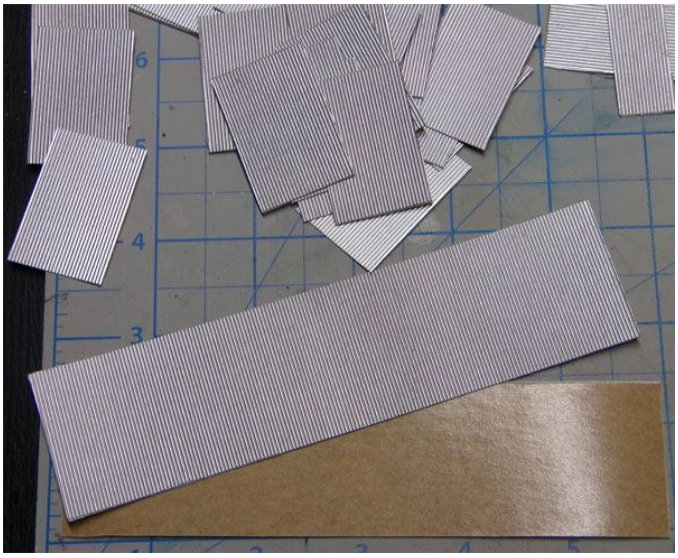
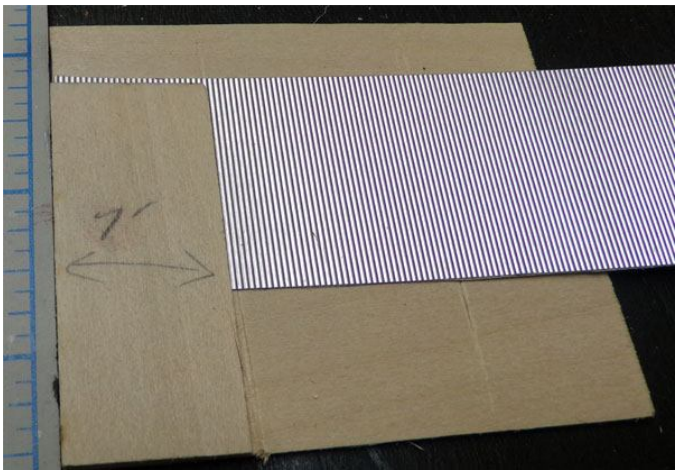
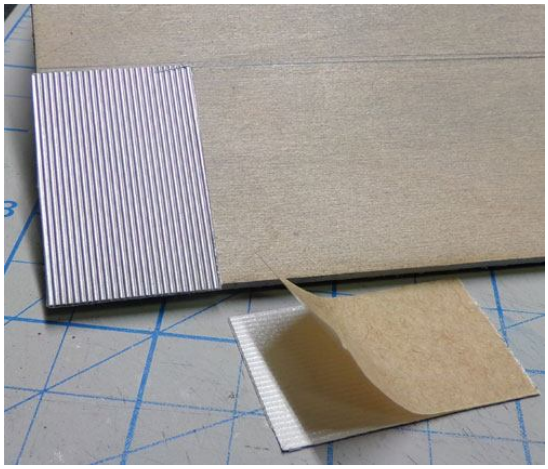
The 2nd part is the Metal Siding.

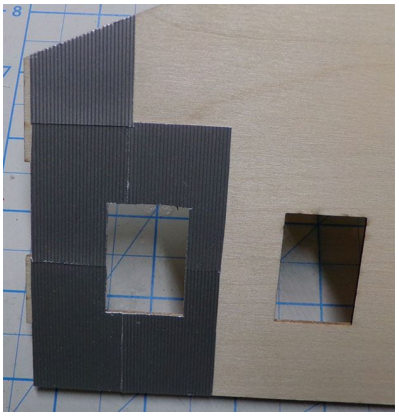


All these adhesive backing metal siding strips must be cut to scale width. These were cut to 7 scale feet width to allow any alignment trimming needed later on. Below I made a jig to cut from top to bottom with a Exacto Knife. Start at the bottom corner and slightly overlay the next side adjoining panel till the bottom row is complete.

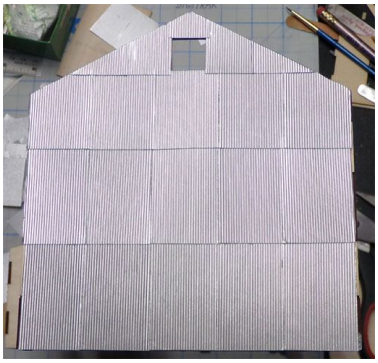




Now start on the next upper row slightly overlaying the top of the first row. Do the same to each next row. Be sure to trim out where end vent and window opening are.



(Below right image shows the back of the 2-stall engine house)



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This build is basically the same, the sides have the same 6 window each. The 4 corner plastic angle moldings and the 2 vents are spray painted a light gray before installing. The windows frames and door are spray painted a medium gray before installing. These windows have a good tight fit toward the outer edge. (Top Right Image) Glue the inside 4 corners of each window frame, door and vent.
Top image and right image shows the corner angle trim and vent installed.

These 2 above images are showing how to make the aluminum foil ¼" wide strip. We use the back side facing up. Now add glue along the roof top center and press the aluminum foil strip in place. Trim the ends.

Next is adding interior detail plus interior and exterior lighting

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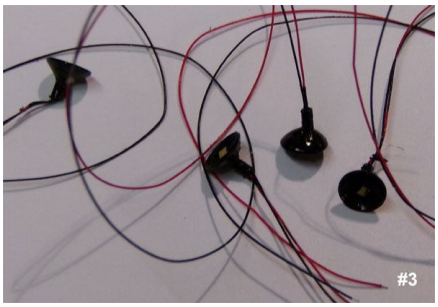
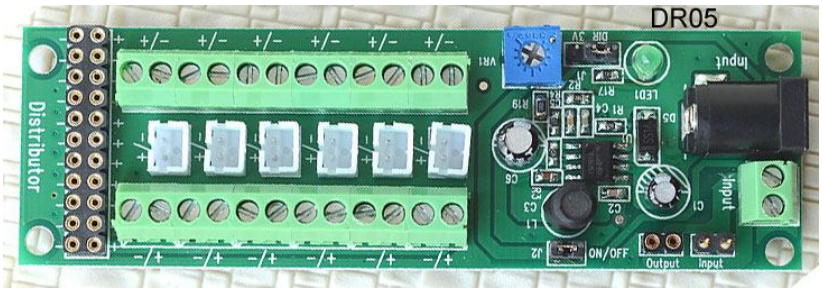
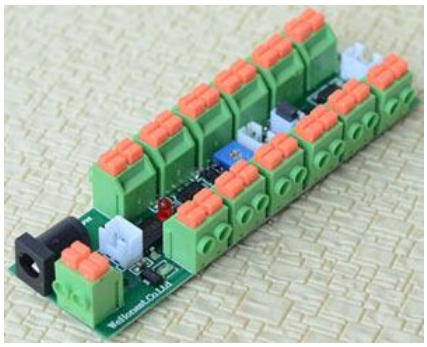
Now we add some interior detailing, figures and items.

Above: Broom on the left, slug hammer and crowbar on the right. Another crowbar on the table.
Below: Detail is Woodland Scenic's (A1781) Welders & Accessories plus Tichy Train Group (#8169) Standard Crane and other small detail items. Broom, crowbar, sledge hammer 4 screw jacks, small & large cylinder tanks. Bottom Right Photo shows 2 upright air compressors on the wall beside the door.



Next is the LED interior and exterior lighting all from WeHonest Model Company. 12 green lamp shades were used on the interior and 4 gray lamps on the on the exterior. I used the DR05 distribution board set at 3V, no resistors were needed here.





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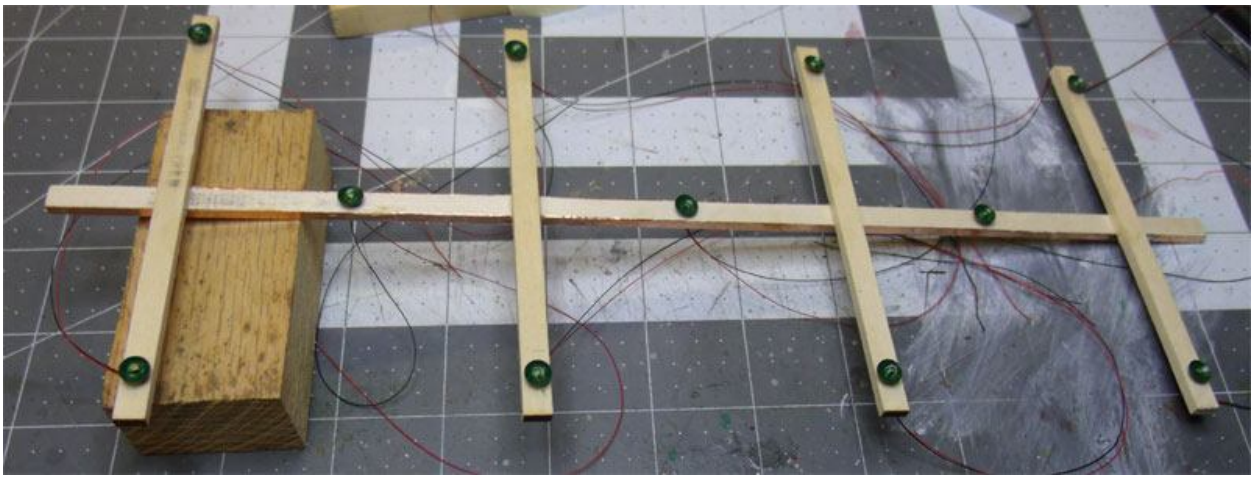
11 interior lights plus one in the extension room and 4 outside lights.



These wires were soldered to the copper tape, one side red wires, the other for black wires, Then a power plug was soldered to the end which connects to the distribution board. These 11 LED lights were plug into one plug on the distribution board. No problem without any resistors. Just make sure that 3V is set on the distribution board.

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The pit on the right also has 2 LED lights.

Day Time

Night Time

These outside lights are controlled by a different power plug that can be connected to a different distribution board to be off during the daytime.