Mine Mount Models

CRAFTSMAN MODEL KITS

A.K. MACHINE SHOP

A.K. Machine Shop & Welding is the place to go when your gears are grinding. Known for precision milling and perfect welding like dimes. A.K.'s great grandfather was the local blacksmith. So, when horseshoes turned into horsepower, the family business changed to stay ahead of the times. A.K. stands by his great grandfather's motto "Good enough is never an option". He carries on the family tradition of precision craftsmanship and quality work.

A.K. Machine Shop & Welding is a great kit that fits into your roadside scene. It can be built into the model we designed or use your imagination to see what you can come up with for your railroad!

Tools & Supplies

- ✓ Hobby knife, with #1 Xacto Blade
- ✓ Fine File
- ✓ Square & Ruler
- ✓ Pounce tool or T-Pin/Needle
- ✓ 1-2-3 blocks (optional)
- ✓ Small magnets (optional)
- ✓ NWSL Chopper (optional)
- ✓ PVA glue or wood glue
- ✓ Cyanoacrylate glue (CA)
- ✓ Paints & Brushes
- ✓ Tweezers
- ✓ Patience
- ✓ Fun

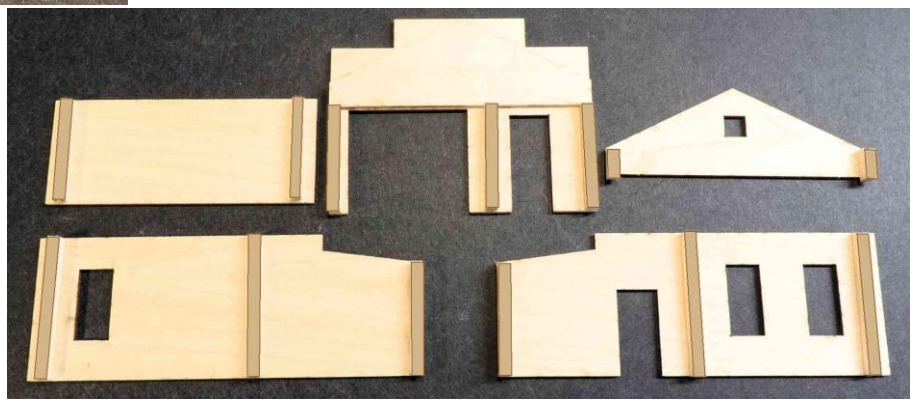
Pre-assembly

1. Inspect all sheets of laser cut materials against the diagrams provided in the instructions, checking for any missing pieces or damaged parts. Please reach out to us with any issue.
2. Before starting your model, read through these instructions completely to become familiar with the parts and assembly sequence.
3. **IMPORTANT** Keep all laserboard sheet sprews to cut and use as "Sheet metal bars and plates" for details around the buildings.

Bracing & Corner Molding

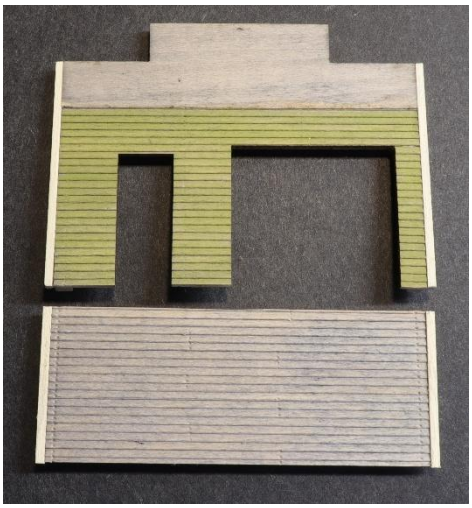
4. To create the false front wall, use parts #1,6,7. Place #7 so that the scribed triangular line is facing up. Align the peak of #6 on top of #7 and glue. Place #1 with the clapboard side facedown. Now align and glue assembly #6/7 so that #6 overlaps and reinforces the joint.

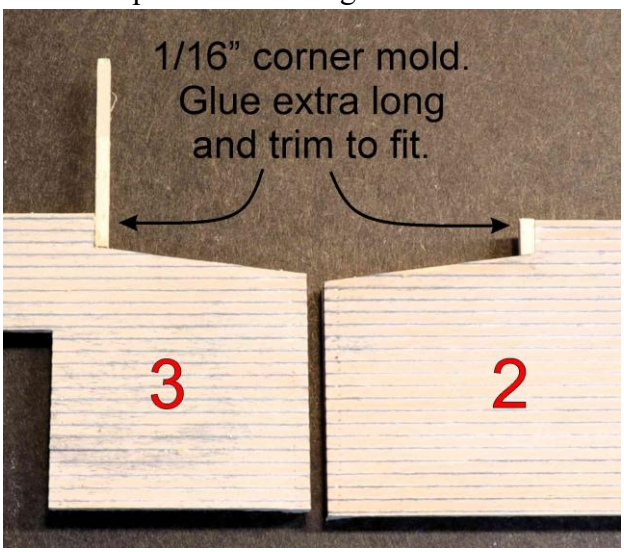
5. In the kit we provide 1/8"x1/8" stripwood (RED tip) to brace the backside of the clapboard pieces. Remove parts #1/6/7, 2, 3, 4, 5 from clapboard and basswood sheets. Cut the 1/8" stripwood to fit on the smooth side of the parts. Reference the parts list and schematics for



bracing location. Special note - some bracing needs to be glued a little over 1/8” away from the edge of the wall. Noted on schematics sheet.

6. We suggest you paint the walls and corner molding your desired color before adding the corner molding. Add the corner molding using the 1/16”x1/16” stripwood (GREEN tip) provided in the kit. The 4 corner moldings are glued to the sides of parts# 1/6/7, 4. Cut the 1/16” corner molding about 1/8” longer than the edge of the wall that it will be glued to. Use 1-2-3 blocks or other squared weights to hold it in place while the glue dries. Trim the corner molding flush to top and bottom edges of walls.

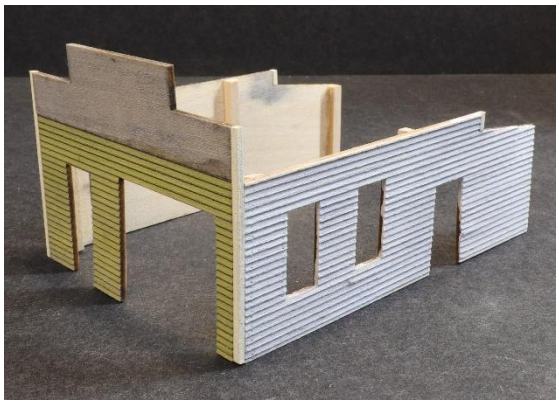


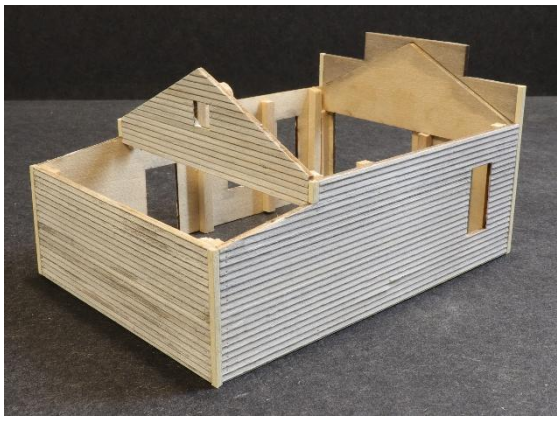


7. Similarly repeat the corner molding technique in a “shorter version”. On parts #2 & 3, there are two very short vertical wall sections Cut the 1/16”x1/16” stripwood (GREEN tip) stripwood slightly longer and glue on to the wall. Trim them to match the pitch and height of the wall. Reference the picture to the left.

Assembling the Walls

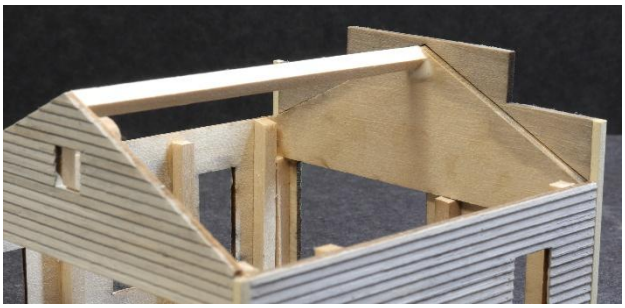
8. Building up the walls is an easy construction process. Now with the four main walls painted & assembled, it is time to glue up. This is the time you want to use 1-2-3 blocks and small magnets to assure the walls are glued together square. Start by laying the front assembly (#1/6/7) with the clapboard facedown. Glue on the 2 side walls (parts #2&3). Allow it to dry. Then lay down #4 back wall clapboard side down. Making sure the clapboard pattern is in the correct direction. Flip over the assembly of the other 3 walls and glue the assembly to the edges of the front wall along the corner moldings. Again, square up walls using 1-2-3 blocks and magnets.
9. Glue wall #5 in between the short vertical sections of the side walls.





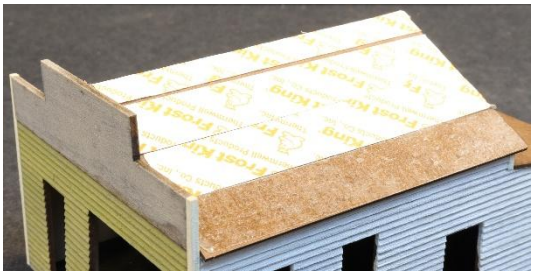
Roof

10. Add 1/8”x1/8” stripwood (RED tip) as a ridge beam to the peak of the roof. This helps support the two roof sheets parts #12, 13.
11. Glue on the two roof sheets parts #12, 13. Also add the back roof sheet part #14.

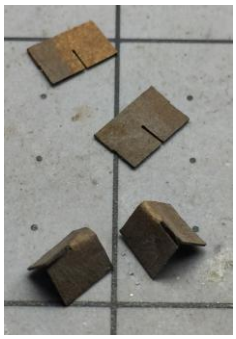


12. You can use double stick tape or glue to attach the strips of shingles. I prefer the double stick tape method. Start at the bottom of #12 or 13 and place the first strip slightly overhanging the bottom edge. The next row of strip shingles overlaps the earlier row just above the vertical slots of each shingle. Keep the rows nice and straight (unless you want a worn and weathered roof).

    On our website there is a Mine Mount Minute how-to on painting convincing shingle colors, easily and quickly.



13. Continue applying the shingle strips until you reach the peak on both sides.



14. Now it is time to attach the ridge cap shingles. Use the shingle strips provided and cut them into 2-tab wide sections. Next, fold the 2-tab shingles in half along the center line, so they sit on the peak of the roof. The bent shingles need to be glued to the top ridge of the roof. We used CA glue to do this. They need to be overlapped to cover up the split section, and only leaving the solid part of the shingle exposed.

15. Paint the sheet of “Rolled Roofing”, white sticker sheet, provided in the kit. I usually use a light gray and grimy black to achieve the base roof color. Sometimes adding a little red or green will give you a variety of roofing material looks. You can add other weathering materials to get the look you like. The rolled roof is a self-stick material, but you can add double stick tape or glue to strengthen the bond. Apply strips of the rolled roofing to the back bump out sloped roof.

16. The roof trim is made with 1/32” x 1/16” stripwood (BLUE tip). Cut the ends to match the pitch of the roof and glue under the eaves.

17. Also add 1/32”x3/32” stripwood (PURPLE tip) to the top three edges of the false front wall. Be sure to make the top trim even with the backside of the wall.

18. ow add the four triangular supports #12 on top of #11. The two outside triangles should be even with the edges of #11. Then cover them with the roof sheet #13.

Windows & Doors

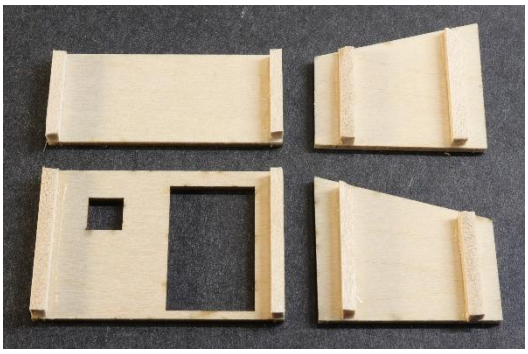
19. The windows are by Tichy Train Group. And a couple doors that are cut from 1/32” micro-plywood. Just like any plastic kit, the plastic doors need to be washed off with mild dish detergent and warm water. Paint them with your desired color. There is a sheet of clear acetate that has the glazing for doors and windows already precut to the correct sizes.

20. The one side window in part #2 has an optional sign that can be added to the wall before the Tichy window is installed. Glue it on the wall so that the right side of the blue sign covers over the wall opening. Allow to dry. Then cut out the sign paper from the open before installing the window.

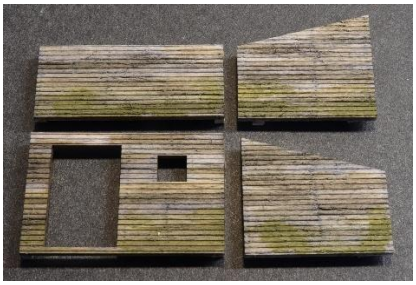
21. The large wood garage double door is made with parts #8, 9. Stain and paint each piece prior to gluing them together. The kit has a small sheet of tan laserboard that has six hinges and a hasp that goes on the surface of #9.

22. Now just test fit the windows & doors into the different openings, and glue them once happy with the fit. Use all the pictures provided to help with locations.

Storage Shed



23. The kit comes with an easy to build small storage shed to add to the overall scene. The building process is like the main structure, but just on a small scale.
24. Add the 1/8”x1/8” stripwood (RED tip) to brace the backside of the clapboard pieces parts #15, 16, 17, 18. Reference the schematics page for location.

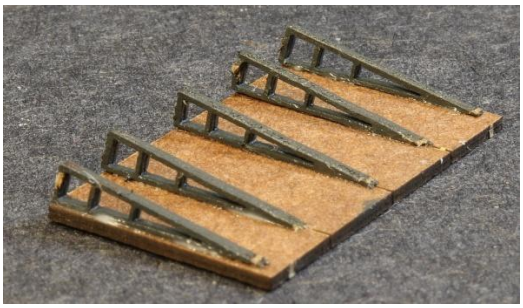


25. Stain and/or paint the clapboard walls.
26. Stain and/or paint the corner molding 1/16”x1/16” stripwood (GREEN tip). Glue it onto the edges of #16, 17.

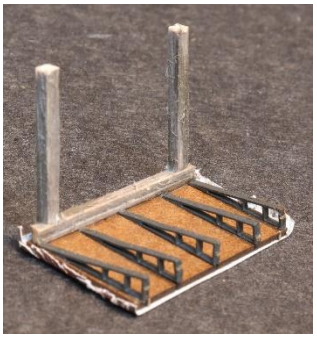
27. Assemble the four walls using the same method as the main building. 1-2-3 blocks and magnets really help this process.

28. Add the small square window. If you plan on having the door completely open, I suggest leaving the window out. It will allow the door to sit flatter on the wall.
29. Glue the small sliding door together parts #10, 11. You can position this closed or open, if you want to detail the interior. Add a length of 1/32”x1/16” stripwood (BLUE tip) above the door to function as a guide rail for the door.

30. Glue on the roof sheet part #19.
31. Corrugated roofing material is provided to use on the small shed. Reference the Mine Mount Minutes How-To page on our website. There you will find a great method of weathering the corrugated to look old and rusty.



32. There is an optional small lean-to roof you can add to one of the side walls. The roof is created with parts #20 & five of #21. There are lines scribed on #20 to guide you lining up the roof rafters #21. We suggest gluing the middle one first and working outwards. An extra rafter is provided for the oopsie drop factor.



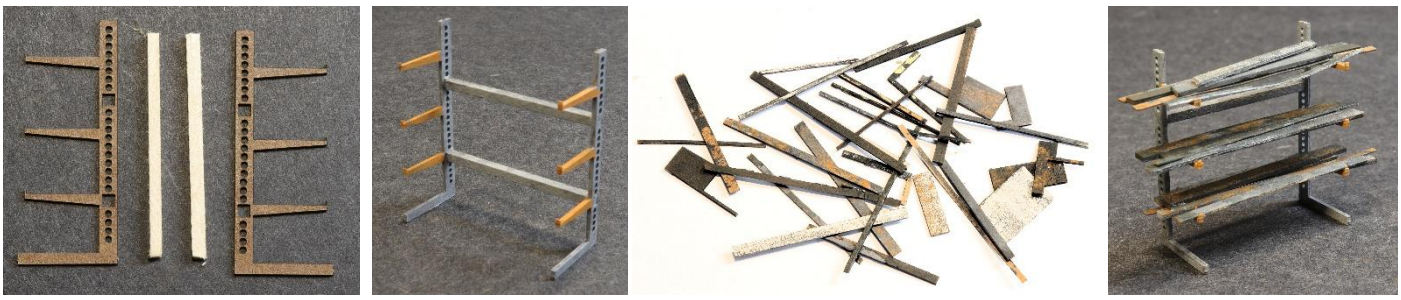
33. Use the schematic to glue up 1/16”x1/16” stripwood (GREEN tip).to create the leg supports. Then glue the leg assembly to the bottom, front edge of the roof. Next, pick a side you want the lean-to on and attach it, so the top of the roof is slightly under the eve of the main roof.

Signs & Details

34. The kit comes with a variety of signs that can add life to your model. There are no specific spots for any of the signs. Cut them out with a new sharp hobby blade and glue them to the walls.
35. The A.K. MACHINE SHOP sign is only one that has a specific location. On the front wall #7.
36. The rest of the signs can be used anywhere you think looks good. See pictures on the website and instructions for suggested locations.
37. The resin detail parts should be rinsed off with warm soapy water and dried before painting. The straight roof vent and the brick chimney are installed by filing the bottoms to match the pitch of the roofs. Or you can drill or cut small holes for them to fit snuggly in with glue. Glue them into the locations you like. Paint around the base with a grimy black color to simulate tar sealant. The trashcans, tanks, tires, barrels and other resin details can be placed around the building where you see fit.

38. Other details we provide require assembly. The PORTABLE HOIST is a delicate model. Carefully remove the pieces from the base. The hoist motor can slide on to the crossbar and be positioned anywhere along it. You can leave it free to move if you want to. We suggest using CA glue to attach the two legs to the crossbar. A small chain and hook are provided to finish the model. Thin black line is used for the control cable. Crease it and glue along the cross beam. Cut a small square of the laserboard frame to create a control box on the end of the line.

39. The OIL TANK ON A STAND is another easy to assemble model. It consists of the tank, stand, and hose nozzle. It is a delicate model so use caution removing it from the sprews. We suggest painting the parts before assembly. Take your time and it will turn out great.
40. The INDUSTRIAL RACK is made of two upright brackets and two pieces of 1/16”x1/16” stripwood (GREEN tip) cut to 1-1/4” (approximately 9ft HO scale). After painting the rack, you can cut up and paint the leftover laserboard sprews to look like sheets and bars of metal stock. Stack the “Metal Stock” on the rack bars and lean them against the walls.



The model will be complete at this point. Add as many details as you would like. Create a wonderful scene on your model railroad or diorama. We want to thank you for enjoying the building of **A.K. Machine Shop & Welding**

. Please share your finished build by sending good quality pictures to info@MineMountModels.com and we will post them in the "Customer Build Gallery" section of our website. Also, check out our other products by visiting **www.MineMountModels.com**.

Thank you,
Ron & Michelle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SAFETY
FIRST


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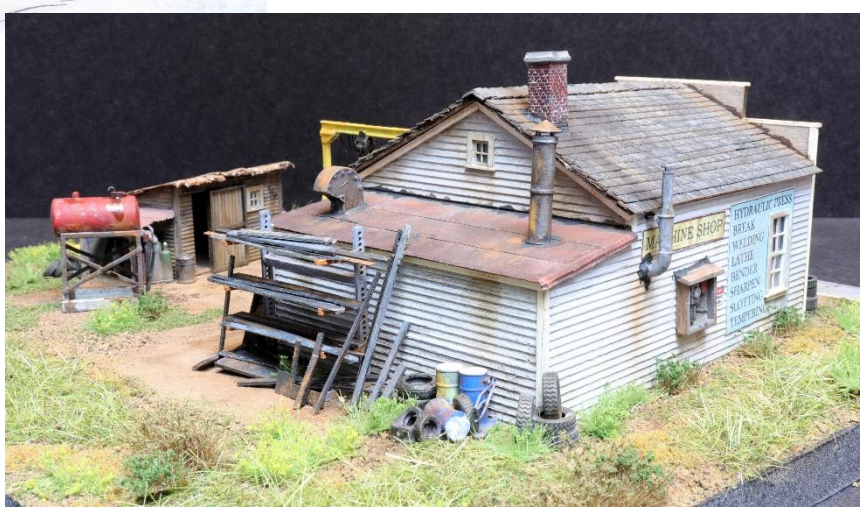
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