GEORGE'S FEED & GRAIN

KIT #6401 "S" SCALE 1:64

Assembly Required

From

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RECOMMENDED ASSEMBLY:

George's Feed & Grain is based on several Checker Board Mills buildings that Ed Suydam found in his travels.

On a trip through Minerva, Ohio, a town served by the Sandy and Beaver Canal, the Pennsylvania Railroad, and the Wheeling & Lake Erie Railway, and Herington, Kansas located near the Rock Island, M-K-T, Topeka, Salina & Western, and the Union Pacific Railroad, Ed Suydam used the features found on stores in both towns and came out with a scale model. In order to produce a model that will fit on most model train layouts some of the building's features have been altered from the prototype buildings.

This kit will give you a lot of fun during the assembly process and look very nice when you place it on your layout. Please read the instructions before you start the assembly of the building.

The walls are laser-cut rag board and printed bond; included is enough wood pieces to make a sturdy building.

In this kit you will find parts made in our own factory and parts from our friends at Kappler Mill & Lumber Company, Tichy Train Group, Tomar Industries, Evans Designs, Northeastern Scale Lumber Company and Grandt Line.

The rag board and printed bond is laser-cut. This material is great to work with and can be kit bashed easily. We have found that Elmer's Wood Glue or Aleene's Tacky Glue will give superior results for most of the material in this kit. However, some parts need CA or a Goo-type of bonding, Ambroid Cement or Duco Cement. Always follow the glue manufactures' instructions and safety advice.

It would help to assemble this kit if you have the following tools and supplies: ruler, T-square, small paintbrush to apply the wood glue, small cup to hold the wood glue, sharp knife or razor blades, emery boards, steel weights, heavy books or heavy canned goods to hold the drying parts in place, waxed paper, pencils, and a nice flat surface to work on. You should have various colors of paint and paintbrushes on hand. Elmer's wood glue or Aleene's Tacky Glue, 3M Formula 77 spray glue, Ambroid Cement or Duco Cement, Clear DuPont Krylon. (Remember to clean the glue and paintbrush after each use.)

The rag board and printed bond in this kit is of the highest quality. But all material made with wood pulp will, with time, start to separate along the fiber lines. Using some wood glue, run a bead along the edge of each piece of the laser-cut rag board in your kit. (The glue will be drawn into the fibers pieces.) Allow the glue to dry and than follow the assembly instructions. Any warping that may develop when you glue the walls will go way when you add the bracing.

The wood in this kit is also of the highest quality and can be sanded and painted with model paints.

The plastic and other parts are of the highest quality and should be handled with care so you do not break the smallest pieces.

For ease of construction, the kit is made up of two modules: the main building and the grain silo. As you build the modules, you will get a feel of the final layout of the building. Remember to test fit, test fit, and test fit.

You will find window frames, doors, roof grate, smoke stacks, barrels, loading dock, signs and a jib crane. If you paint them, they should be painted before attaching to the kit. The glazing material should be attached before the walls are glued together. Use glue or electrical tape to attach the glazing to the windows and doors. Sandpaper is provided to be cut and attached to the roof pieces. This will look like real roofing paper when painted.

1. THE MAIN BUILDING

Lay out the four walls on your workbench and glue the printed bond to the rag board. Put an even coat of glue on each wall, covering the entire surface. Use a one-inch paintbrush for this, or spray with 3M Formula 77 spray glue. Line up the window and door openings. Put a piece of wax paper on a flat surface under

✓ the walls and a piece on top of the walls. Place a flat book or board on top and a heavy weight on top. Make sure the pieces do not move, so they will be lined up on all four sides. After the glue has set up remove any glue that may have leaked out from between the pieces. Seal the inside of the walls with a light spray of clear DuPont Krylon or Elmer's Glue.

✓ Place the front and rear walls on your workbench with the outside face of the walls facing up (checker board pattern). Using the photos on the corner post guide as a reference, glue the corner trim 3/32" x 3/32"x 3-3/4" to the edges of both the front and back wall. The front wall has the freight, personal door opening and one window. The back wall does not have any openings. After the glue has set up on the corner trim, turn the walls over and glue the 3/16" x 5/16" x 3-3/8" corner posts to both front and back walls right at the edge of the rag board. The corner posts must be flush with the bottom of the rag board. Lay weights on top of the posts until the glue has set up. Paint the corner posts red before you glue them to the ends of the walls.

✓ Glue the 3/16" x 5/16" x 6-1/16" pieces between the corner posts, along the bottom edge and matching the top edge of the post. Leaving enough room for the vertical corner posts that you have glued to the end walls, glue bracing to the left wall and the right wall. Remember the roof will set on top of the horizontal sidewall bracing, so it must be lined up with the top edge of the corner posts. The left wall has one window opening, one person opening and a freight door, the right wall has one window opening and one freight door opening and the hole for the smoke jack.

Now is the time to add the window frames, glazing and doors. Use CA or Goo-type cement. If you are going to paint the windows and doors, do it before you glue them to the building pieces. We did not paint the frames and doors on the sample model; the dark and light gray looked good. Clean up the little bit of flashing on the frames, so they will have a good fit. Glue the frames into the openings in the building walls. Looking at the freight doors, the smaller panel goes to the top. If you keep the freight door open, use the pieces of rag board that will fit between the doors. Paint it brown or red. See photos for placement of the windows and doors. Use weights to keep everything flat and true until the glue has set up. Note: At this point it is a good idea to coat the inside of the walls with glue or a sealer. This will seal the rag board and seal the edges of the electrical tape, if you have used it to attach the glazing. Glue the smoke stack base into the right side wall. Wait to attach the curved smoke stack until after you have completed the main building.

After the windows and doors have been attached, glue the front and rear walls to the left and right walls. Work around the building adding weights and making sure the building is square. Add more weights to hold the pieces square while the glue is drying. After the glue has set up, add the corner sway braces. If you left the freight doors on the left and right side of the building open, use one of the sway braces to look like a piece of floor. Glue it across the width of the building, lining it up with the open doors. Hold everything in place with weights.

The ends and side walls should be painted on the inside wall surface, above the horizontal roof bracing, to the top edge of the ends and walls. This should be done before you attach the roof. When the roofing paper is attached this will make a nice visual.

Glue the roof in place at this time. Glue the roof details on either before or after you add the sand paper roof material. The grate should be placed towards the front of the roof, the A/C unit should be placed down the centerline of the roof a little ways from the grate, and the two round smoke stacks placed on the right side of the roof.

The front porch roof is made from a piece of red mat board. Glue the edging, 1/32" x ¼" x 6-25/32" and 1/32" x ¼" x 1-1/4", to the mat board. Make sure the red is facing down. Then glue the back brace to the mat board, 1/8" x 1/8" x 6-23/32". Finally glue two strips of sand paper to the top of the porch roof, and glue the front porch roof assembly to the front of the main building, leaving space above the roof for a sign, about one inch from the top of the front wall. Material has been provided to add a wall cap to the ends and sides. Paint the wood red before you glue it to the building. The wood is cut 1/32" x ¼" x approximately 11-3/4" and 1/32" x ¼" x approximately 7". The cap material is cut a little long so you can cut it to fit. The front porch roof should be glued about one inch down from the top of the front wall.

Sand and paint the loading dock and front porch to look like old concrete and glue the loading dock to the left wall under the person and freight doors. Glue the front porch to the front of the building. You can scribe some lines into the wood surface to make it look like marks from the concrete forms.

Attach the curved smoke stack by sliding it in to the hole on the right side of the building.

2. THE GRAIN SILO

✓ Lay the four walls on your workbench and glue the printed bond to the rag board. Put an even coat of glue on each wall, covering the entire surface. Use a one-inch paintbrush for this. Put a piece of wax paper on a flat surface under the walls and a piece of wax paper on top of the walls. Place a flat book or board on top and some heavy weights on top of that. Make sure the pieces do not move, so they will be lined up on all four sides. After the glue has set up, remove any glue that may have leaked out from between the pieces.

✓ Place the front and rear walls with the outside face of the walls (checkerboard) facing up. The front and rear walls have a peeked end. Using the photos on the corner post guide as a reference, glue the corner trim 3/32" x 3/32" x 6-3/16" to the edges of both the front and back wall. After the glue has set up on the corner trim, turn the walls over and glue the 3/16" x 5/16" x 5-3/4" corner posts to the both front and back walls, right at the edge of the rag board. The corner posts must be flush with the bottom of the rag board. Lay weights on top of the posts until the glue has set up.

✓ Glue 3/16" x 5/16" x 2-15/16" wood pieces between the vertical corner posts. Each wall of the silo should have bracing. Leave room for the corner bracing.

✓ Glue the four silo walls together, standing them up, then using weights, make sure the walls are lined up and square and in the proper order. The front and back walls have a peeked end. Glue the silo roof in place. The roof is made of two pieces of corrugated mat board and is cut to fit. Sand the top of the corner post with a slight angle, so the roof material will fit. Attach the two pieces of mat board together, with masking tape on the inside surface, and glue to the silo. Paint the face board red and glue it to the sides of the roof. The material for the silo face board is 1/32" x ¼" x 11"; cut it to fit. In the kit is a piece of treasury paper, 1/2 inch wide, that must be creased lengthwise and glued to the top of the silo roof. The grain silo can be glued to the back of the main building.

3. ROOFING MATERIAL

Sand paper is provided to be used as roofing paper on the main building. Cut it into 3-foot strips, glue the strips to the roof. The sand paper can be painted black, green, silver, red or gray.

4. BRACING

It is very important to add the bracing material to the rag board walls. After the glue has set up, you can see and feel the difference. Some of the bracing pieces are cut a little long. You can cut or sand them to make a nice fit.

5. SIGNS

Glue the signs to the outside of the building.

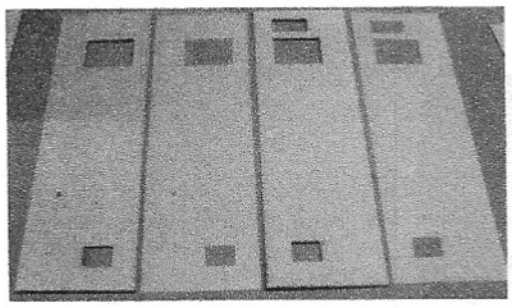
6. JIB CRANE

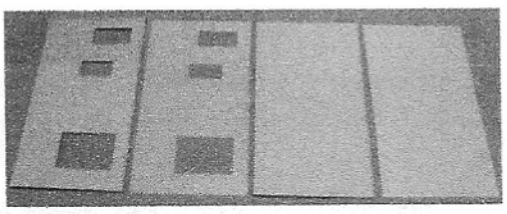
Look over the instructions for the jib crane, assemble the jib crane and glue the crane to the loading dock.

7. Glue the drums to the loading dock.

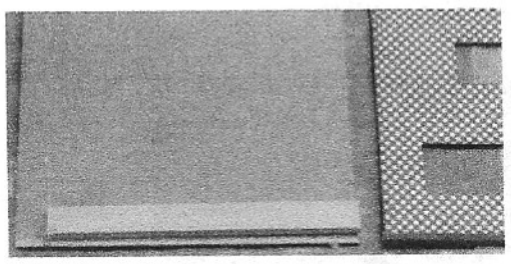
8. Touch up the paint as necessary. Brush with a light touch.

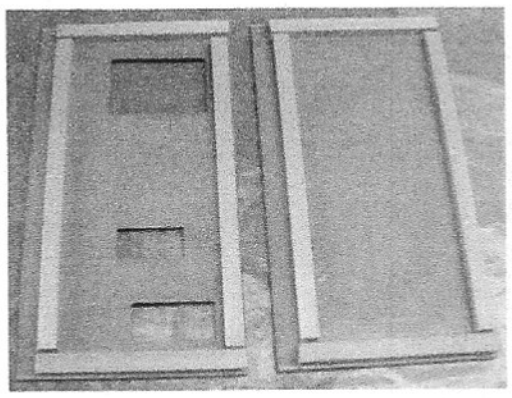
Place your model next to a siding on your layout and you will have a place for your local switch crew to drop off and pick up cars.

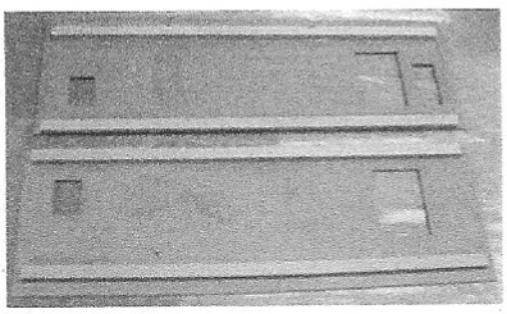


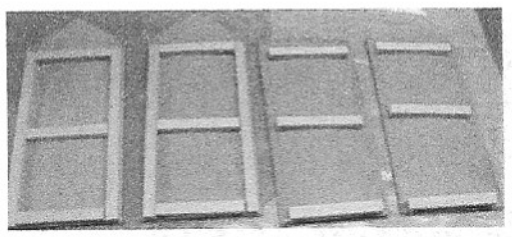


Walls before glueing

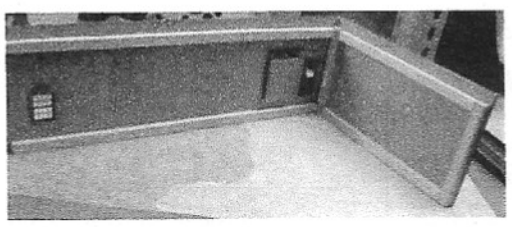




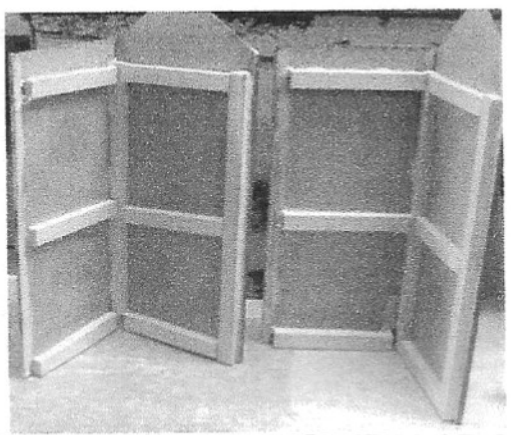


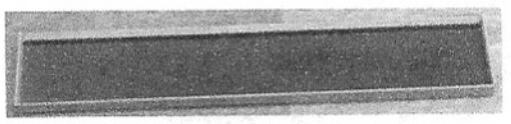


Bracing lay out



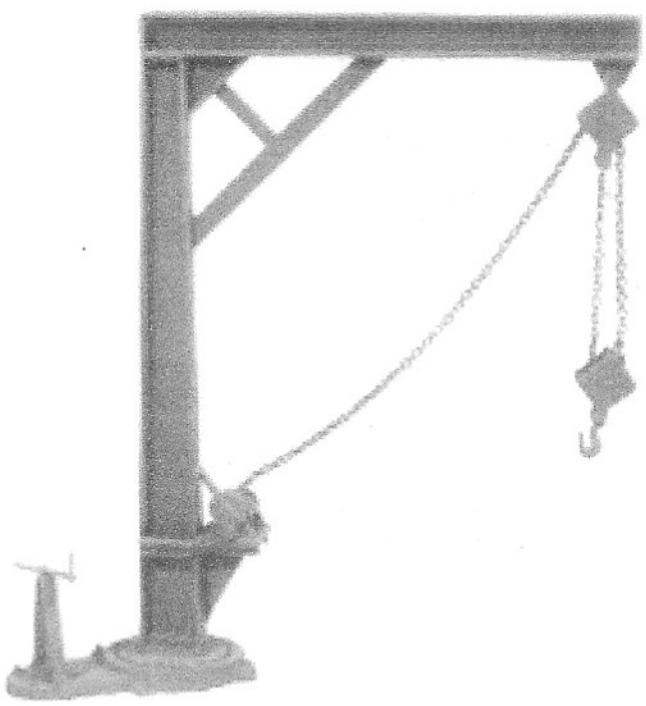
Inside of the main building



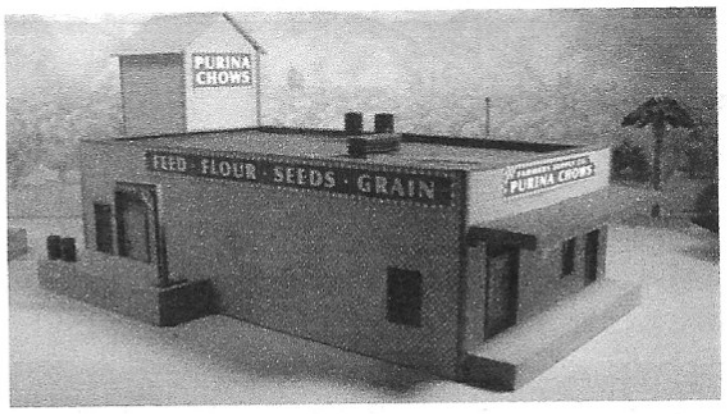


Under side of the porch roof

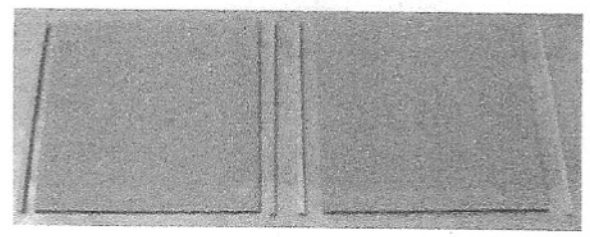
Inside of the Silo

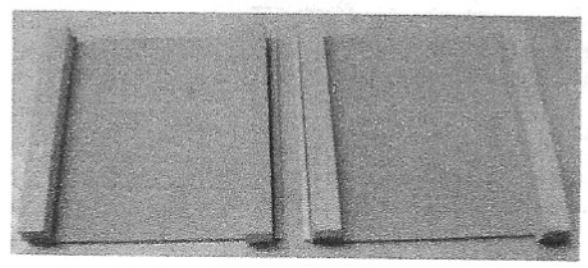


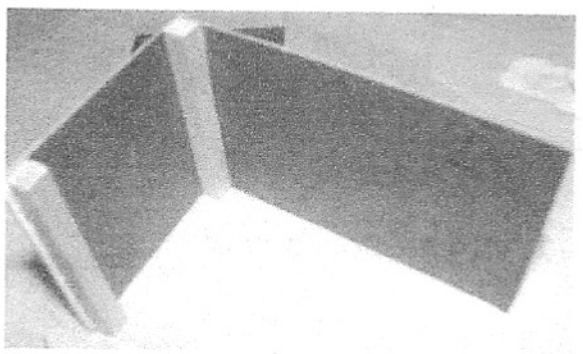
Jib Crane

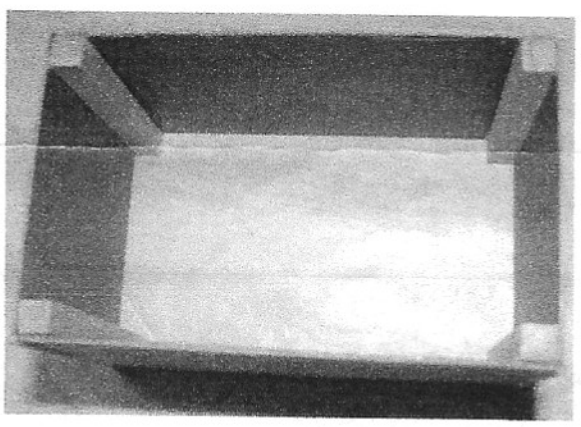


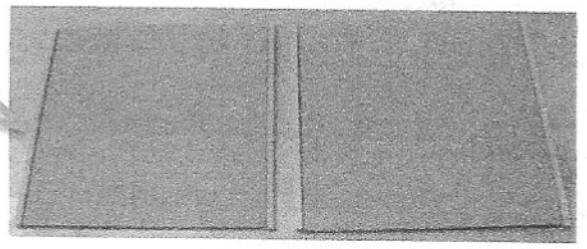
Improved corner posts

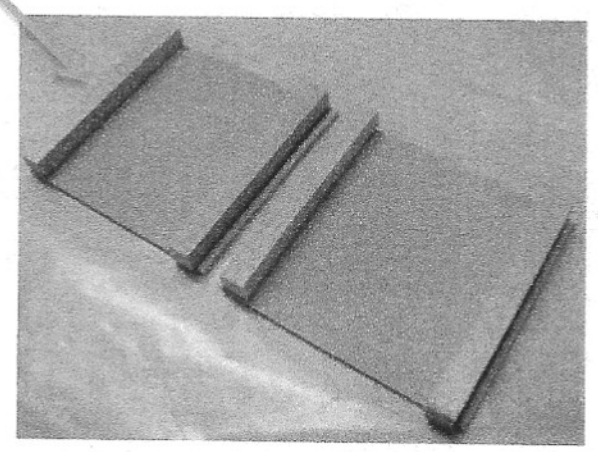


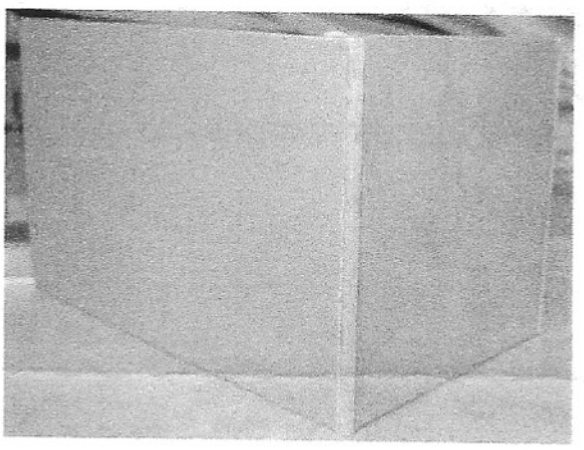












The photos on the instruction sheet are not photos of your model, but will show you the correct layout of the improved corner posts.

Paint the part of the corner post that will show before gluing them to the walls.
Lay a piece of wax paper on you bench.
Trim the corner posts, if needed, before glueing them to the walls.
Lay the two smaller walls on your work bench and glue the 1/16" x 1/16" to each side of both wall. Than glue the 1/4" x 1/4" to the assemblies as shown.
After the glue has set up, glue the longer walls to the assemblies, making sure that the wall assemblies are square . Remember the 1/4" x 1/4" must be set back and not glued on top of the 1/16" x 1/16" end post.

ADSM 10-10-2010