

## **3 Stall Locomotive Roundhouse**

HO Kit #104

### **Assembly Instructions**

#### **Materials Needed**

Duro Super Glue or Zap Glue

Duro Cement

Ambroid Cement

Sand Paper or Emory Board

Wax Paper

Masking Tape

Small Square & Straight Edge

Dull-Coat and Paint

#### **Pre-Assembly Instructions**

1. Prior to assembly, orient yourself to the construction process by reading through the instructions and familiarizing yourself with the parts, diagrams and templates.
2. Remove all excess flash from walls and window openings with a file or emery board.
3. To give your roundhouse a realistic look it should be painted and detailed prior to assembly. To fill the mortar joints, cover the wall section with white paint, wait a few seconds, and lightly wipe off excess paint until paint is removed from the brick surface and leaving the paint in the mortar joints. To remove excess haze from the brick surface, apply a thin layer of Dull-Cote and wipe gently.
4. Glue windows in place from the inside of the building, then cut and glue window glass into each window frame from the inside.

#### **Floor Plan**

1. Before beginning assembly, tape together the floor plan templates. This is necessary to ensure the stalls are lined up at the proper angles.
2. For a 3 stall roundhouse you will have 2 templates. For additional stalls, add one additional template for each additional stall until the desired number of bays are represented.
3. Cover the completed template with wax paper.

#### **Assemble Roof Support Structure**

1. Refer to the roof support template.
2. Cover the template with wax paper.

3. Most of the wood comes precut, but may need to be lightly sanded to clean up cut edges. Additionally, some pieces were intentionally shipped long and are to be trimmed and sanded to make a tight fit as the structure is assembled.
4. Layout the posts and main beam on the template, using a square to ensure that the posts are at right angles to the beam and glue in place. Repeat with the remaining (4) posts.
5. Next, dry fit upper post # to roof beam #. Sand the top of the upper post to the proper height and angle to match the template and to make a tight fit to the roof beam. When post is complete, sand the end of the roof beam at a slight angle to match the vertical of the post, refer to the template. Repeat with upper post # and roof beam #. When complete, glue together posts # and #, glue posts to main beam and then glue the roof beams to the posts and the main beam. When dry, trim off the overhanging ends of the roof beams to match the vertical of the main posts at the ends of the structure.
6. Repeat steps 4 and 5 until you have assembled one beam structure for each bay plus one additional structure, ie. - 4 structures for a 3 bay roundhouse.

### **Assembly of Walls**

1. Prepare to glue together a sidewall and a back wall by lining up the wall sections with the lines on the plan layout template. Check that the contact points of the walls fit tightly and at the proper angles while the walls line up with the template, some light sanding may be necessary. Lightly sand contact edges only where you needed to help the glue to adhere. When wall sections fit tightly, you are ready to glue.
2. Repeat with the other side wall and back wall.
3. When those sections have dried, repeat process with front wall sections.
4. Continue fitting and gluing the remaining back walls and front walls following the lines on the plan view until all bays have been assembled and the shell of the building is completed.

### **Placement of wood supports**

1. With the assembled walls positioned on the plan layout template, place an assembled roof support against the inside wall of each of the side walls. All roof supports **MUST** butt up against the front walls.
2. Next, glue in place remaining roof supports between front and back wall sections along centerlines between front and back walls, following those shown on plan template. See Picture 1 and 2.



Picture 1



Picture 2

### **Skylights**

1. The skylights will be placed between each roof support structure on top of the front roof support beams and against the vertical posts. See Picture 1 and 2.
2. Prior to gluing, refer to Picture 3 which illustrates how the skylight notches fit onto the beams. Take note that the skylight notch against each sidewall must be widened (filed) so that the notch is long enough to sit on the beam and allow the edge of the skylight to butt against the sidewall.



Picture 3 – Position of skylights on beams



Picture 4 - Widened notch to fit onto beam and against side wall.

### **Roof Placement**

1. Roof material should fit on top of the support beams with the textured side facing up.
2. Dry fit front roof sections prior to gluing. Begin with the roof sections adjacent to each side wall. Place roof sections onto roof supports with one edge against the side wall and the back edge against the skylight. If roof

doesn't fit squarely at overhangs, skylight and at the centerline of wooden supports, make marks and cut to fit. To make cuts, align a straight edge along marks and score with sharp razor knife and then snap off excess. File edges to fit tightly to adjacent roof piece. Perform this procedure on outside roof sections first and then repeat procedure to fit center roof piece. When all front roof pieces fit tightly together, glue in place. Note: Taping roof sections together from bottom may be helpful.

3. Repeat step 2 for upper roof pieces.
4. Prior to gluing back roof sections, drill a hole for the smoke stacks in the center of each back roof section about 15 scale feet from the back of roof.
5. Glue back roof sections in place.
6. Glue smoke stacks into drill holes and ensure that they are plumb.

### **Finishing Touches**

1. Finally, glue doors into desired position.
2. To add a weathered look, spray entire model with flat black from a distance. This will give a sooty look. Over the doors should be darker from the locomotive smoke stacks.

**Congratulations**, you have completed your Korber Model Roundhouse. We hope that it gives you years of enjoyment on your layout.

***If you have any questions please contact us at  
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