

FIRE STATION PHOTO REAL BUILD KIT

by *Innovative Hobby Supply*

Making Traditional Hobbies Better!

INSTRUCTIONS FOR:

Kit BK 6414 "Fire Station" Build Kit ~ 'S' scale

Free replacement parts are available simply by calling 866-712-4059.

Includes one (1 ea.) 1/8 in. dia. x 11 in. long round wooden dowel and two (2 ea.) Ultra Sign sample sign posts.

Views of the completed Photo Real "Fire Department" build kit shown below are for reference purposes and as an aid in assembly.



Fire Department with open door



Fire Department interior view



Fire Department top down view



Fire Department detail view

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INTRODUCTION

Please read these step-by-step instructions thoroughly before you undertake any cutting or assembly. Then follow the simple step-by-step instructions. This build kit is a medium skill-level kit in our **Photo Real Building Kits** product line. Assembly time is approximately 2 hours. With just a little patience and the right tools, this amazing kit can be constructed by any hobbyist, offering a more realistic-looking model than painted plastic forms. Printed on our exclusive, high-definition 'Flex Stock' material, these kits are very rugged and will provide many years of enjoyment on your train layout, slot car track, or diorama.

After you've read through the assembly instructions once, start again at the beginning and follow the steps to cut and assemble the model. We strongly recommend using a hot-melt mini-glue gun for assembling this kit. (Mini-glue guns are available at your local craft store, as well as many hardware stores and drug stores, for less than \$5.00.) Hot melt glue is easily controlled and sets-up fast, which greatly speeds-up the assembly time since you don't need to wait for the glue to dry. **Use hot-melt glue sparingly:** apply an amount just sufficient to tack the items together. You can reinforce the bond surfaces with a final bead of hot glue – or with white glue – once you are satisfied with placement of component pieces.

These instructions include plenty of clear, full-color photographs to make assembly easier. As with all model assembly, some patience is required. The skills acquired in constructing your first building kit will carry over to our other kits, which will make it easy to add as many buildings to your layout as you desire – saving you time and money and giving you better results than for most molded plastic kits. Enjoy the most innovative and realistic scale-model building kits available.

GETTING STARTED

IMPORTANT: The most important skill in getting a good result is the technique of 'scoring' the material where indicated (fig. 1). Scoring is simply making a shallow cut through the top layer of the paper with a sharp hobby knife (e.g., an X-acto knife) while using a ruler or other straight edge.



Figure 1 - Scoring the material.

This technique is simple to learn, yet vital to getting a perfect fold – even on small parts! Using this technique helps to ensure a beautiful trouble-free assembly. Without it, the folded edges tend to buckle unevenly and look bad when assembled.

Practice on a scrap piece until you have perfected your technique sufficiently to have confidence. The hobby knife should be used for scoring only! When cutting out parts completely, use a sharp scissors as this material is tough and does not cut easily with a

knife. Remember to always wear safety glasses when using sharp tools or hot glue guns. Keep all materials away from extreme heat or flames. Adult supervision is required for those under age 16.

- 1) Collect the assembly tools you will need: hobby knife, hot-melt mini-glue gun, straight-edge, scissors, tray (for separating and storing component pieces from scrap), tweezers (figs. 2-A, 2-B).



Figures 2-A, 2-B - Useful tools/materials for assembly.

- 2) Other useful tools include hobby glue (also called white glue) waterproof Sharpie-type markers in red, black, brown, green and silver for detailing edges. Clear tape is useful for temporarily holding components together from the inside areas.
- 3) Cut out the base (item 16) and set it aside (fig. 3). Cut out the walls, items 1-4. Carefully cut out the middle doors and set aside.



Figure 3 - Prep the base and walls.

- 4) Detail out all building edges at this time using a red marker (fig. 4).



Figure 4 - Detail the edges with marker.

- 5) Cut out the inside room detail with the fire suits and the two interior side-doors item 12 and set aside (fig. 5).



Figure 5 - Cut out the detail items.

- 6) Free the staff door and visitor door with scissors, but only on the two sides that open! Then score the hinge area lightly using a hobby knife and straight edge. Fold inward and then open (fig. 6).



Figure 6 - Cut free the staff and visitor doors.

- 7) Cut out the middle garage door on the front side and back side. **Note:** be careful not to bend walls beyond its memory (fig. 7).



Figure 7 - Cut out the middle garage door front and back.

- 8) Using a small amount of white glue, cement the inside side door detail to both doors (ref. fig. 6).
- 9) Let dry for 5 minutes and then detail out the edges using the silver marker (fig. 8).

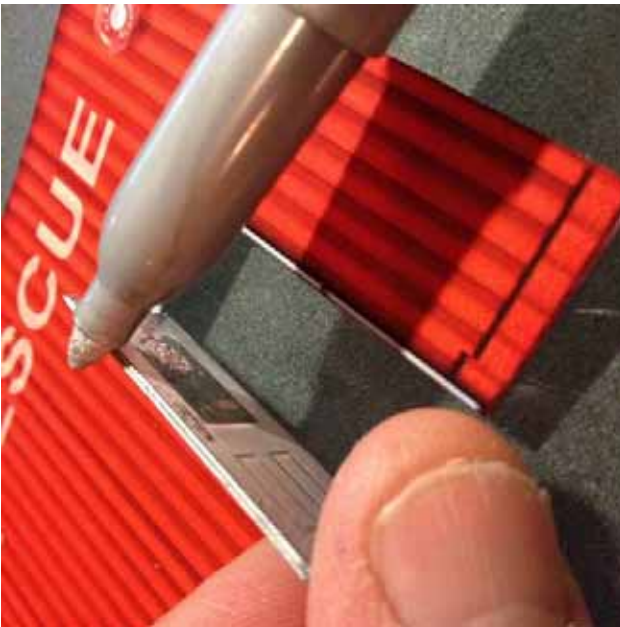


Figure 8 - Detail the door edges.

ASSEMBLY

Tip: Practice your hot-glue attachment technique on scrap material before starting.

- 10) Score the fire suit illusion room at score lines on each side and fold (fig. 9).



Figure 9 - Score and fold the illusion room piece.

- 11) Fasten the illusion room behind staff entrance door using hot glue (fig. 10).



Figure 10 - Attach the illusion room behind the staff entrance door.

- 12) Attach the first inch of one corner of the front wall to the base using hot glue along the bottom edge. Next, attach the opposite corner while adding slight tension to keep the front wall straight. Hold upright and straight until the glue cools (fig. 11).



Figure 11 - Attach the front wall to the base.

- 13) Finish tacking down the front wall from behind the garage doors using hot glue while keeping the front wall straight and vertical.
- 14) Now attach the side walls using the same method: attach one lower corner and then attach the upper corner where the walls meet. Line up the walls carefully as the glue sets. Once the glue is cool and the walls are fixed vertically, reinforce with more glue along the inside seam. Keep a close eye on alignment (fig. 12).



Figure 12 - Align and tack the walls using hot glue.

Tip: You can use a small piece of clear tape to hold and position the walls together before gluing. Alternatively, just use a tiny drop of hot glue sufficient to just tack walls together before laying down a binding bead of glue.

- 15) Finish attaching the back large wall with garage doors using the same method.

- 16) Test fit the last side wall before gluing. If necessary, using a scissors, trim the end of the side wall a small amount to fit. Glue in place. Next, reinforce all wall-to-wall seams and where the walls meet the base (fig. 13-A). When all four walls are properly attached, your model should look like figure 13-B.



Figures 13-A, 13-B - Reinforce the seams with hot glue.

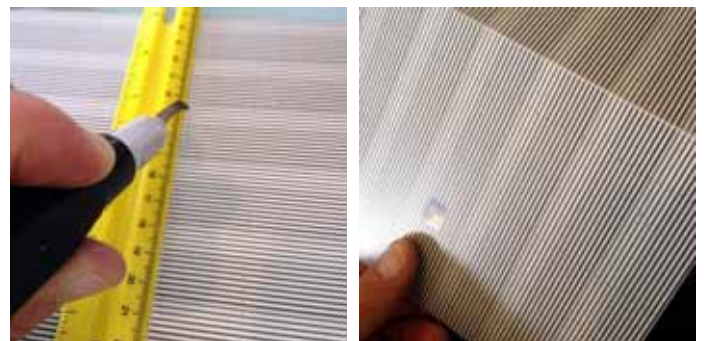
Tip: Score the bottom 1/8 in. of the two garage doors and fold carefully to add the look of thickness if desired. See fig. 14-A, 14-B.

- 17) Garage doors can be installed in an upright position with just pressure-fitment and scotch tape, if desired. Or, you can glue them in place (figs. 14-A, 14-B).



Figures 14-A, 14-B - Attach the garage doors.

- 18) Score the roof using a straight edge on the light gray line in the dead center of the roof (fig. 15-A). Then fold it at a slight angle on the edge of a table or desk. Test fit the roof on the assembly to center the roof over-hang on all four sides (fig. 15-B).



Figures 15-A, 15-B - Score, fold and center the roof.

- 19) Score and fold the four small narrow red corner trim pieces item 13 in the middle (figs. 16-A, 16-B).



Figures 16-A, 16-B - Score and fold the four corner-trim pieces.

- 20) Attach the corner trim pieces to the assembly with white glue. Remember to use the red marker to color the edges before installing to improve the realism of your model (fig. 17).



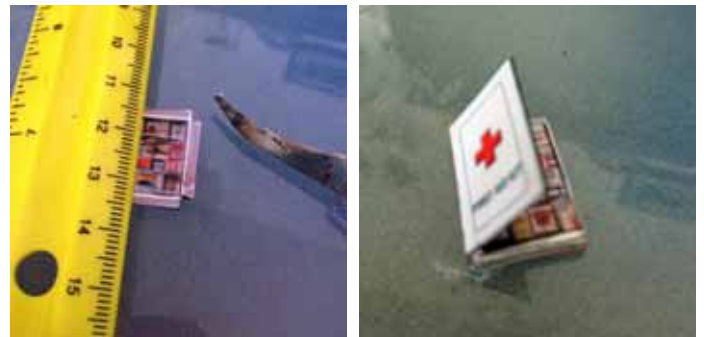
Figure 17 - Attach the corner trim pieces.

- 21) Leave the roof unattached for the moment to allow for more detailing on the inside with scale figurines, fire hoses, or the use props that are included with this kit.
- 22) If desired, you can now attach the parking lot and corner memorial garden, fire bells, roof vents, side gardens and first aid kit. Or you may want to create your own outside props using lichens, trees, plaster forms, etc.
- 23) Cut out all detail items using a sharp scissors and prepare all edges using the permanent markers (fig. 18).



Figure 18 - Trim and edge-color detailing pieces.

- 24) Score and fold the body of the first aid kit at the cover and hinge area and assemble with hot glue from the back side (fig. 19-A). Attach the cover with hot glue along the finished first aid box (fig. 19-B). See fig 26-B for suggested placement.



Figures 19-A, 19-B - Score, fold and assemble the first aid kit.

- 25) Cut out both side and front parking lots. Using a brown Sharpie or similar marker, color the edges of the pieces.
- 26) Butt the front and side parking lot pieces directly up to the building assembly on top of the base so they overlap with the building base. Make sure the side parking lot is correctly positioned (figs. 20-A, 20-B). Tack in place both of the parking lot pieces with a drop or two of hot glue on the backside. Once you are satisfied that the placement is correct, finish attachment using hot glue.



Figures 20-A, 20-B - Attach the front and side parking lot pieces.

Tip: Instead of gluing the small flat detail items directly to the walls, create a small spacer made of a drop of hot glue that is raised a bit. Let cool and add a drop more for adhesion to give it more depth. Using the small spacer technique adds illusion of realism for small detail items.

- 27) Using the two miniature **Ultra Sign** sign-posts included, attach the two street signs using a small bead of hot glue along the flat side of post (fig. 21).



Figure 21 - Assemble the street signs.

- 28) Using white glue, attach the two sides of the flag together and finish the edge with red marker. Attach the flag to the thin, 6 in. long x 1/8 in. dia. dowel provided. Use silver marker to finish the pole (fig. 22).



Figure 22 - Assemble the flag.

- 29) Score and notch the corners and then fold the rim of the Memorial Garden piece on the edge of a table or desk. This gives the item a raised surface (fig. 23).



Figure 23 - Score and notch the memorial garden.

- 30) Use hot glue on the inside and underside of the Memorial Garden to assemble it (fig. 24).

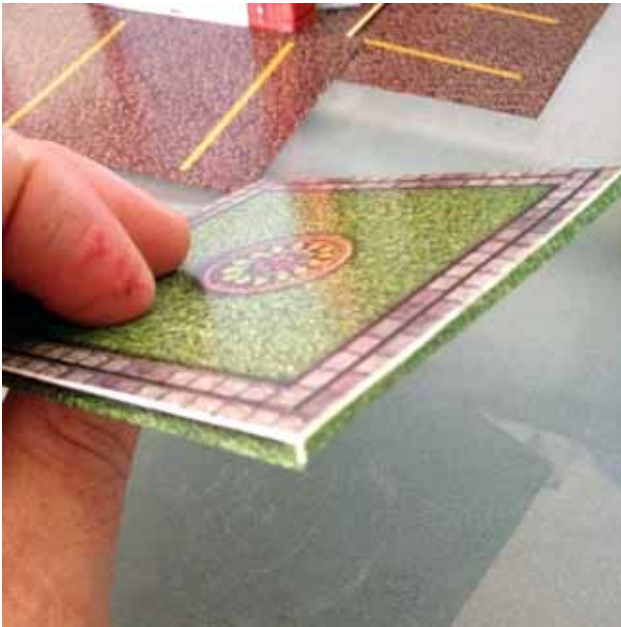


Figure 24 - Assemble the Memorial Garden piece.

- 31) Attach the Memorial Garden over the top of the two parking lots and attach with hot glue on underside (fig. 25).



Figure 25 - Attach the Memorial Garden piece.

- 32) Attach detail items as shown to inside and outside of Fire Station assembly (figs. 26-A, 26-B).



Figures 26-A, 26-B - Attach detailing pieces to the outside.

Tip: Hot glue can be used to simulate water running out of the hanging hose reels (ref. fig. 26-A).

- 33) Finish and attach other detail items, as desired, placing them where wanted. We suggest placing the first aid kit on the outside wall near the staff door (figs. 27-A, 27-B).



Figure 27 - Attach remaining detail items.

- 34) Last, attach the roof to the assembly with hot glue starting on one end and working your way around the station until it is secure. You may use white glue, but allow at least 2 hours drying time before handling the assembly.
- 35) Add detail items around the fire station grounds as desired such as lichen, trees, figurines, ladders and any additional props.
- 36) Enjoy your new **Photo Real** Fire Department scale model!

*The skills you have learned in assembling this build kit will make constructing any of our line of **Photo Real Build Kits** faster and easier. Check out our entire line of photo-realistic build kits at www.innovativehobbysupply.com*