



# Korber Models

Scale Model Railroad Structures

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## Model 705 O Scale Fire Tower

### Instructions

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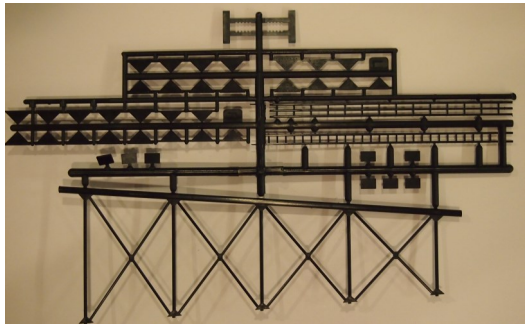
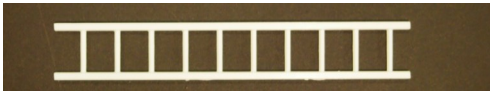

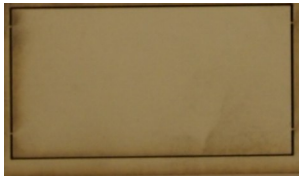
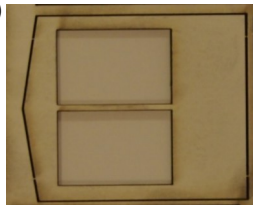
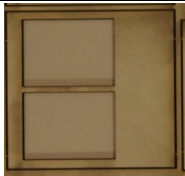
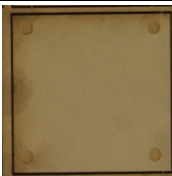
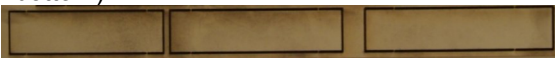

### Introduction

Congratulations, you have purchased the Korber Models #705 Fire Tower. This structure represents thousands of fire spotting structures that could be seen all across the nation. You can follow the simple, step by step instructions outlined in this document to easily assemble this great looking addition to your layout.

Before you start you may want to read through the instructions to get a feel for the things you will be doing, and the basic order in which they will be done. You are on your way to adding a great focal point to your layout, so let's get started!

### Parts list & Templates – (What's in the box)

Take a few minutes to locate all the parts in the box to make sure you have all the pieces you will need and that the quantities are right. If you are missing anything, please contact us so we can get you any of the missing items.

Qty	Description	Qty	Description
1	Tower Base 	4	Tower leg with bolt plate details 
1	Lower Stair—2 5/8" 	3	Upper Stair—2" 
2	Roof section 	2	Side wall (Peaked) 
2	Side Wall 	1	Cabin Floor 
1	Tower landings (three sizes—largest at the bottom) 	4	Window Frames (2 for the peaked side and 2 for the regular side wall) 
4	Sheet of clear plastic "Window Glass"		

## Materials needed – (What else might I need that is not included)

The Korber 705 FireTower, like any kit, requires a few additional items to complete the construction. We have included a list here, including some color and brand suggestions based on our experience; however you may use any product that fits the function. Please also note that some items are listed as options such that they either make assembly simpler, or are needed only for optional steps

RustOleum camouflage flat spray paints work well for painting this model. Green for the window frames, black for the roof, and khaki for the cement base. A light grey flat auto primer works well for the rest of the structure. To give an aged metal look  
Masking Tape—1" wide

Cyanoacrylate (CA) glue. Also known as Super Glue, Gorilla™ super glue works well  
CA glue accelerator (optional) (turns any CA glue into quick set glue (optional)  
Testor's Dull-cote™ (optional)  
Small clamps (optional)  
Flat black or grimy black spray paint (optional)

## 1 - Parts preparation

Look over all the molded parts and remove any flashing that might be left on them. Flashing is the thin pieces of the molding material that may be left in widow openings and along edges in the molded parts. This can quickly be removed with a razor type knife, a small file, or an emery board.

Remove the tower leg sections from the rest of the spru. The remaining part on the spur are options should you want to add bolt plate details.

Using a razor knife, carefully remove the laser cut parts from the sheet. Note there is one thinner sheet for the window frames and the larger one for the cabin sections

## 2 - Assembly of Cabin Structure

The assembly of the main structure is based on making a simple square shaped structure when viewed from the top. There are four walls, two side walls with a peaked roof top, and two side walls with a flat top. In addition there is a floor or base that is inserted in the bottom of the cabin. Below is a top view drawing of the relationship of the side wall sections.

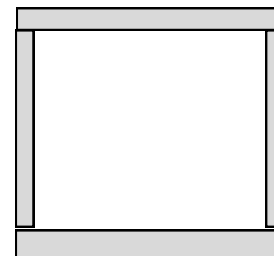
### Placement of side walls

- Take one peaked top sidewall and a flat top side wall and line them up to make a right angle. Make sure the window opening are aligned in the same direction near the top. The use of a small square or other right angle tool is helpful. The flat top side wall should overlay the edge of the peaked side wall. Glue the two wall sections together.

### Top View

Peaked top side wall

Flat Top side wall



Peaked top side wall

Flat Top side wall

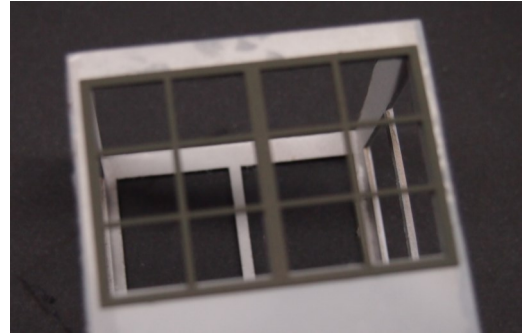


- Repeat the last step but using the other peaked top wall section and the flat top side wall already attached to the first peaked side wall. Again use a small square as needed to keep straight.
- Finally attach the remaining flat top side wall to both of the peaked side walls to complete the square box structure.
- Dry fit the Cabin Floor in the bottom of the four walls, note the four dots should face down for use in aligning the tower legs. Once you have verified the fit and orientation, carefully add glue to the sides of the cabin bottom and re insert in the bottom of the four walls, aligning to be totally inside the four walls and flush when viewed from the side.
- Optionally use small clamps as necessary to hold pieces together
- Once dry we recommend painting the entire cabin, inside and out a light grey primer. In a well ventilated area (outside is good) apply a coat to the inside and outside of the cabin, don't forget the bottom. Since many fire towers were made of steel, and painted a grey, this flat primer will give a weather grey/tin look to the tower.

### 3 - Assemble & Install windows

The windows are made from laser cut material and will have a clear plastic sheet stock applied over the opening from the inside or back side to form a finished window.

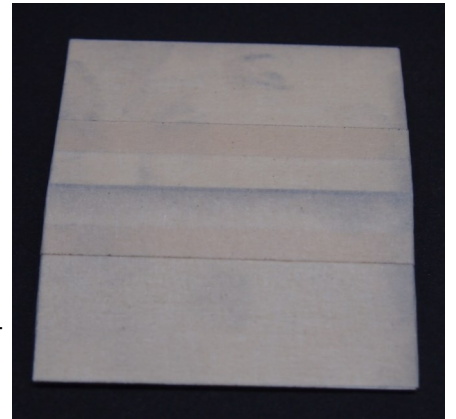
- Carefully remove the window frames from the card they are attached to if not already done
- If the window frames have not been painted, and if you would like to do so, paint them now and let them dry before moving to the next step
- Note there are two sizes of window frames, the larger ones fit on the side walls with flat tops, be sure to pick the right size for the right wall
- Using a small amount of glue on the back of the frames glue the clear “window glass” to the frame and let dry, be careful not to use too much glue as it can affect the glass
- Place the cabin on the side such that the window opening you want to place the window frame over is facing up
- The windows are designed to overlay the window opening from the front, or outside of the building, and will not fit inside the window opening if installed from the back
- Apply a small amount of glue around the edge of the frame and insert over the openings on the wall pieces, be careful to align the window frame to center over the window opening in the walls
- Let the glued windows dry before moving the wall sections to a vertical position to avoid glue running or the windows falling out
- Turn the cabin to another side and repeat the process—Remember there are two size of windows frames



### 4 - Install roof

The roof has two parts, one for each half of the roof structure and designed to fit over the peaked end walls

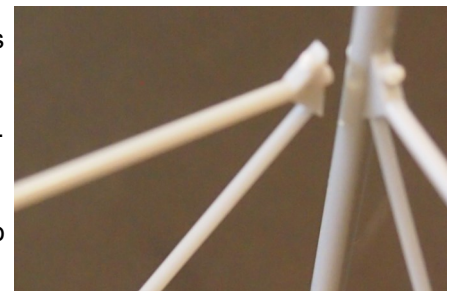
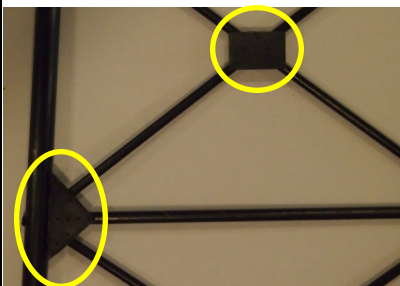
- Using a small piece of masking tape join the two half's of the roof together using the tape to make a “hinge” along the seam, this side will be the bottom or inside of the cabin
- The top of the roof will be covered with strips of the 1” wide masking tape to give the impressing of rolled tar paper roofing. Cover the roof, with some piece of tape starting from the lower roof edge on each side of the roof attaching along the wide side of each half. Place a third piece of tape over the center of the roof peak to completely cover the roof section
- Paint the roof, both sides using a flat black spray paint and let dry
- Once dry, carefully glue the roof into place using the seam in the center to align to the peak of the roof



### 5 - Assemble the tower

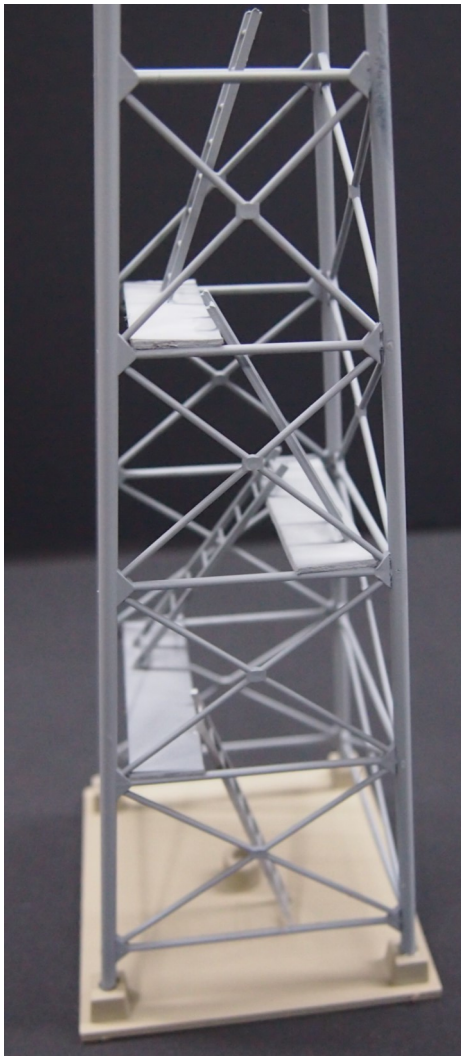
- Place the tower base, on your work surface and install the legs in the four holes in the tower base. **Do not glue at this point**
- Mate the cross supports up to the legs adjacent to them to create a corner joint. The cross supports have a small tab at the end of them that fits into a small hole in the adjacent leg. Glue the joints and hold together until the corner sets.

Repeat for the other three corners. Note the photo on the right



- **Optionally** you can add support plates to the tower legs where the cross members join the tower leg, and where they cross at the center. These parts are located on the tower leg spru, and have both L for triangular plates that attach to the left side of the leg, and R for triangular plates that attach to the right side of the tower leg. There are also small rectangular plates that attach to the center cross section





- There are three tower landings placed on top of the horizontal cross pieces to support the ladder/steps. There are three different lengths, using the widest for the lower, and progressing to the narrowest on the upper landing. Use the photo at the left as a guide
- Glue the widest landing on the second horizontal cross piece from the bottom, place it to the left side of the tower
- Glue the second mid width landing on the third horizontal cross piece from the bottom, place it to the right side of the tower.
- Finally glue the smallest landing to the fourth horizontal cross piece from the bottom, place it to the left side of the tower.
- Attach the lower stair to the side of the first landing as seen in the photo to the left. Use a small pair of pliers or forceps to help hold the part in place. Using the CA accelerator for the glue helps in the process. Do not glue to the base as we will need to remove the base for painting.
- Repeat for the next two landings with the remaining stairs/ladders, gluing to both ends
- The final upper ladder will need to be angled to meet the bottom of the cabin but glued only to the landing as the cabin gets attached in a later step.
- Once the glue dries, remove the tower from the tower base for painting. Paint the tower structure including ladders and landings a light grey flat primer like you previously painted the cabin, and let dry
- The tower base is supposed to represent a cement base, painting this a flat khaki such as the rustolium camouflage makes a convincing aged concrete, paint and let dry
- Once both the tower and base have dried, place a drop of glue in each hole in the base for the four tower legs and glue the tower legs to the base.

## 6 - Final Assembly

The final step is to attach the previously assembled cabin to the top of the completed tower. Place a small drop of glue on top of each tower leg, and place the tower cabin on top of the four legs. There are markings on the bottom of the tower cabin base to help align the legs, but mostly you are just centering it over the four legs. Once glued let dry. The result should look like the photo to the right.

## 7 - Final Detailing – Weathering

Your Korber #705 Fire Tower is now assembled and ready for placement on the layout. You may wish to provide some additional weathering before you install it as a structure such as this would be heavily used with a layer of soot, rust and would rarely look brand new.

To add rust look, many find commercially available weathering powders work well as do art type colored chalks in a reddish brown.

To add a weathered look, spray the entire model with flat black from a distance. This will give a sooty look to the building. Once done you can spray the completed structure with Dullcote to remove any gloss or shine.

