



Scale Model Railroad Structures

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Model 967 O Scale 20'L x 9"W x 12"H

Anakin Shoe Factory

Compiled by: Tanya Burdick



Introduction

Skylights were a common feature of factories in the early 20th century, and the Shoe Factory has them in spades. This model is right at home on near a main line or branch line in towns and cities of all sizes. The Shoe Factory is a two story brick industrial building that is a perfect fit on your railroad.

The Korber Shoe Factory model includes molded brick details, roof top skylights, covered loading dock, injection molded roof top water tower, and windows to bring life to your model railroad.




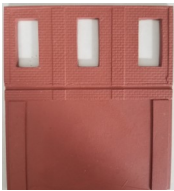
Buildings like this are still in use across the land serving different uses in the community. This structure fits nicely as a key business on your layout ranging from steam thru modern era.


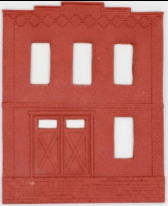
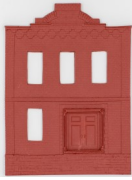





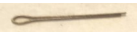

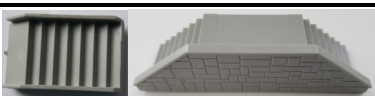







You can follow the simple, step by step instructions outlined in this document to easily assemble this great looking addition to your layout. Once assembled this model has approximately a 9" x 20" footprint. We have covered not only the key required steps to build the building so you can get it on your layout the quickest, but have also included several optional steps to enhance the appearance. These enhancements are based on submissions from modelers just like you who have taken the Korber structures to the next level, and now by following a few extra steps you can achieve the same results.

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 centerpiece 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. You may also want to spread these parts out so that you have a small separate stack of each part and make it easy to find each as you start the assembly process. If you are missing anything, please contact us so we can get you any of the missing items.

Qty	Description	Qty	Description
1	Side Wall w/ 2 double doors & 4 windows  SIDE WALL #2	1	Side Wall w/ 6 windows  SIDE WALL #4
1	Left End Wall with 3 windows 	1	Middle Wall w/ 3 windows 

Qty	Description	Qty	Description
1	Right End Wall #6 	1	Side Wall on Loading Dock Side #5 
1	Side Wall on Main Side #7 	1	Loading Dock platform 16 1/8"
		5	LD foundation walls 1- 15 3/4", 4 - 1 1/2"
		1	LD Roof 16 1/8" 
7	Skylights	2	Skylight supports
2	Roof support for 2nd story 		#11 & #12 
2	Smoke Stacks 1 large, 1 small 	25	Windows plus 2 sheet clear plastic 
6	Cotter pins 	2	Down spout Wires 
2	Stairs 	3	Loading Dock Roof Supports 
2	Store signs 	8	4- Corner supports 3"L, 4- 5"L 
		1	Loading dock roof beam 15 1/2"L 
1	Rooftop Water Tank 4 supports 1 barrel 1 top & bottom 1 pipe 	1	2nd story roof 5 1/4"W
		7	2 1/8"W x 5 5/8"L Skylight Roofs
		1	3/4"W x 5 3/4"L 
		1	1 3/16"W x 5 3/4"L 

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

The Korber Building, 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

Flat paint, choice of colors, for doors, windows, trim

“Red” automotive primer spray paint to cover all molded brick surfaces such as Krylon Ruddy Brown

Antique white craft paint for cement lines

Light grey or cement color paint for cement foundation and frame

RustOleum camouflage flat spray paints work well for painting window frames, gutters and doors

Small paint brushes

Paper towels or soft cloth rags

Cyanoacrylate (CA) glue. Also known as Super Glue, Gorilla™ super glue works well

We like the new Gorilla brand super glue because it is thicker than most super glues, and allows you to put it on a seam while holding the part in your hand, and will not run when you turn the seam on the side to put two pieces together. This glue is available in most retailers, including the larger home improvements stores

CA glue accelerator (optional) (turns any CA glue into quick set glue (optional))
Medium grit sandpaper or emery board
Testor's Dull-cote™ (optional)
Small clamps (optional)
Flat black or grimy black spray paint (optional)

1 - Parts preparation & painting

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. Some may require more grooming than others. Then it is time to wash parts with soaping water to clean of residue from mold release agent. Dry completely.

The parts in the kit will need to be painted to the final colors you select, and it is much easier to do this step before you assemble them. All the wall sections come colored in a brick red or yellow coloring, however many modelers find a light coat of flat red auto primer spray paint gives not only a great look, but also makes it easier to add the mortar color lines to the walls later on. In a well ventilated area (outside is good) apply a coat to the inside (smooth side) of all the brick wall sections first; once dry, do the same to the other side. By painting the **BACK** side first you avoid any marks that might appear on the brick textured side.

Use a similar process for the window frames and doors. You may want to paint both of these types of pieces the same color to create a theme for your building.

The internal wooden pieces do not need to be painted as they are for structural support only.

Option

An optional step that adds a great deal of realism to any model of a brick building is to add the mortar lines to contrast with the red brick color. The ability to lay the wall sections on a flat surface, when done prior to assembly, makes this detail step simpler. There are several ways to do this, including use of water based paint (Antique White or Light Grey latex well diluted with water until the consistency is as thin as milk), some commercially available products, and the use of light spackling compound to fill mortar joints. In all of these approaches the general concept is to spread the white product you are using over the brick walls, filling in the mortar line grooves in the wall section, and then removing the excess from the top of the bricks. We will walk through the water based paint method.

One simple method we have used is to dilute some water based antique white or light grey craft paint to create a soupy like consistency.

- Cover entire wall section with diluted white paint, letting it settle and collect in the mortar lines
- Wait a few seconds and lightly wipe off excess paint using a slightly damp paper towel or soft cloth until paint is removed from the brick surface, but not the mortar joints
- Keep flat and let dry before moving so the paint in the joints does not run
- To remove haze from brick surface, apply a thin layer of Dull-Cote and wipe gently
- It may require several applications to achieve the mortar line that you want

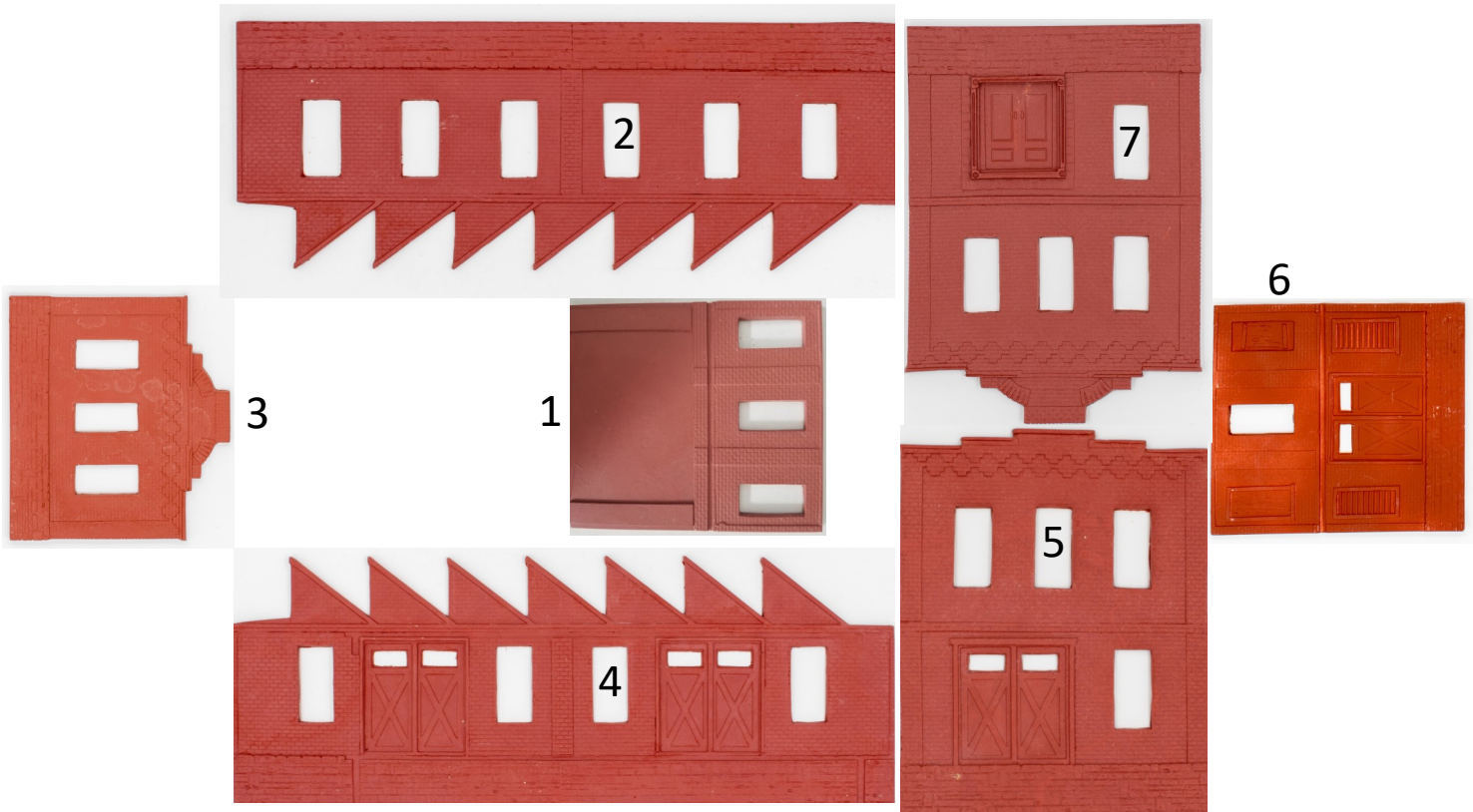
The good news with this option is that if you don't like it, the paint is water based, so you can get it wet, remove it, and start over.

The foundation should be painted a cement or light grey color once assembled. There are other cement details that also can be highlighted with the cement color you choose.

Once dry, this area should be washed using a mix of either watered down black paint, or alcohol and India ink. The purpose of the wash is to settle the black color in the grooves/joints around the bricks and give definition. The wash should not be so dark as to overpower the cement/light grey color.

EXAMPLE MAY NOT LOOK LIKE YOUR KIT





This is how the outside building parts go together. Part 3 sits on outside of 2 and 4. Part 1 and 6 sit on inside of 5 and 6. These 2 parts will need trimming of sides to match the inside dimension of wall segment 2,3,4.

Make sure sides 4 and 5 , 2 and 7 are sanded square to allow for smooth gluing surface.

2 - Assembly & Install windows

The windows are made from injection molded plastic and will have a clear plastic sheet stock applied over the opening from the inside of the model to form a finished window.

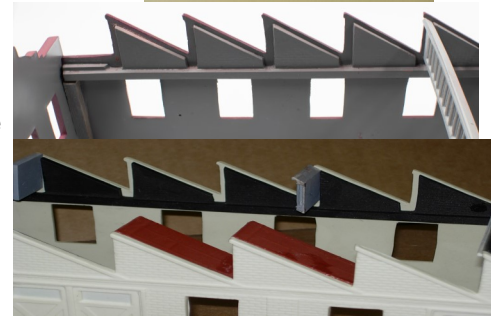
- Carefully remove any flashing from the window frames
- If the window frames have not been painted, and if you would like to do so, paint them now and let them dry before moving to the next step
- Place the walls to which you want to add windows brick side up on a flat surface
- The windows are designed 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 sections
- Let the glued windows dry before moving the wall sections to a vertical position to avoid glue running or the windows falling out
- Prepare to cut and glue small pieces of window clear plastic material over the back of each window. Consider the following two window detailing option for the windows:
- If you want the window panes to have a hazed affect, lightly sand the window material until you've achieved desired haze effect prior to cutting into small window pieces
- You may also detail the windows with shades by covering the top portion of the window material with masking tape



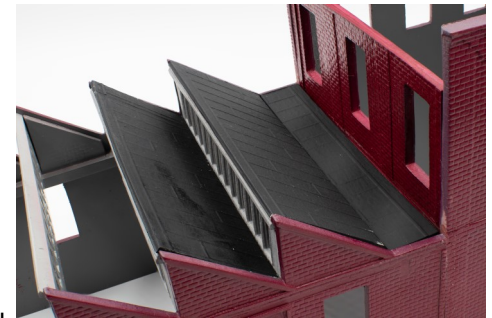
3 - Assembly of Main Structure



It is time to start sanding **6 skylights** at roughly 45 degrees on the **front bottoms** of skylights so roof pieces will fit under them and then on all **7 skylights** the **back tops** at a 45 degree angle to have a snug fit at roof joint.



- Then cut window glass material and glue behind each skylight and set them aside to dry completely. If you prefer to make your window glass hazy, rub them with fine sand-paper until you get the desired degree of haziness, they glue behind windows.
- The next step is to lay wall sections # 2 and # 4 face down on a clean work surface. Then place skylight supports #11 and #12 on the wall sections so that the saw tooth pattern of skylight matches the pattern on wall sections. The skylight supports are to be installed allowing about a **1/8" gap at the top edge and vertical edge** of the saw tooth pattern of the wall section. This gap is to allow the skylight windows and roofs to be recessed so that their faces are flush with the saw tooth pattern of the exterior wall.
- Note: The bottom of supports will sit at top of windows.
- Once you have dry fitted in place, glue these supports down making sure to leave 1/8" gaps. Your support may overhang side edge. This is okay as after the pieces are thoroughly dried, you will sand the edged smooth.
- Next align the wall sections #2,#3, and #4 as shown on the floor plan diagram. Make sure wall contact areas are smooth and square. Some sanding may be required.
- Now glue together the sides and fronts making sure corners are square. Now are walls #1, #5,#7 and #6 as in diagram on previous page. Then glue wooden corner support pieces into the interior corners of structure to provide additional stability when handling the kit during remainder of the assembly process.
- Once wall structure is dry begin to prepare to install the skylight windows and roof sections starting at the front of the building (at wall #3) and working your way to the back. Start by placing the first section of flat roof in front of the first skylight window, glue in place (the flat roof sections will overhang the sidewall slightly). Then dry fit the skylight (that only had the top edge beveled) into the gap of the recessed support. **DO NOT GLUE DOWN YET.** The skylight will not fit properly until it has been sanded to obtain the proper fit. Sand the top and bottom if needed to create a tight fit at roof top and bottom points. Once you have achieved a nice fit between the flat roof, first skylight and next angled roof piece you can then glue the flat roof and skylight in place. Don't glue the angled roof piece yet. When dry proceed to next steps.
- When starting with the second skylight, dry fit and sand part as needed to match the pitch of both the roof above and below the skylight. Once properly fit you can glue in place. Once dry, go on to the other skylights in turn, taking your time to properly fit the pieces before gluing.
- Once skylights are complete, fit and glue final flat roof section.



4 - Install the Main building roof and add water tower and smoke stacks

- Install the roof supports on walls 7 and 5. You have 2 options. For Flat roof glue the supports with flat side up aligned with side walls, or align slanted side with side wall top edge. The choice is yours.
- Next install the roof with gutter edge hanging over the sides. If slated, you will need to cut along the middle seam to get your slanted look.
- Now follow the instructions provided for the water tower and install. **PAGE 8** You will need to cut small hole for water pipe.
- The small smoke stack goes into the depression already provided, the big one needs assembled by gluing the 2 top parts together then glue to wooden dowel and then all gets glued to base.
- You will need to decide where you want this added and drill a hole for it.

5 - Build and Install Loading Dock and Roof

- The loading dock has six pieces, a front section, two sides, 2 interior supports and a top section. Create a three sided “U” shaped part.
- Glue the “U” shaped base to the side of the building. Note that the dock sides should mate to slots in the side wall of the building. **You will need to make 2 more slots for the U base to fit it.**
- Dry fit the loading dock top on the loading dock base you have just attached to the building, some light trimming or sanding may be needed to get a tight fit to the building just below the loading dock doors. Once you are satisfied with the fit , glue the loading dock top to the base and the rear to the building.
- The loading dock roof has a black tar look to it that faces up, and attaches to the rear of the building in a slot above the freight doors. This roof section is supported by plastic braces that are glued in the slots on side of building. See the following sheet to see the door supports placements. **You will need to make 2 more slots in side walls to hold the braces.** This is easier done while building is on the side. Glue the plastic support on small side.
- Once the supports are dry top wooden support align on base and glue to base and side wall. Then it is time for the loading dock roof to be placed and glued down. Then add the side steps to side of dock.



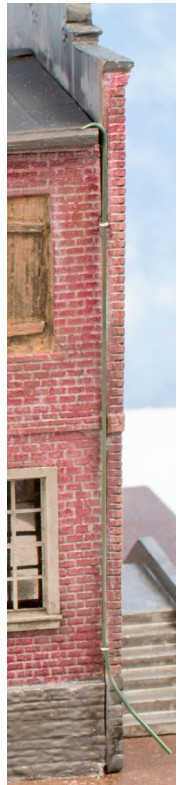
6 - Final Detailing – Weathering

If you have not already done so, place and glue the steps to the building. The double stairs goes at the main door. One small ones go at end of loading dock. Attach to wall and dock for support.

You can now add the down spouts to your building. Locate the side of building desired for the down spout, then drill a small 3/64 diameter hole in wall at top and bottom for the cotter pin anchors. Next bend the green down spout wires to acceptable shape and size and fit in the cotter pin circular ends with a dab of glue.

Your Korber Building is now assembled and ready for placement on the layout. You may wish to provide some additional weathering before you install it as a building next to the tracks would be a heavily used structure with a layer of soot, and would rarely look brand new. There are 2 smoke stacks for roof if desired. Just glue them to flat roof parts.

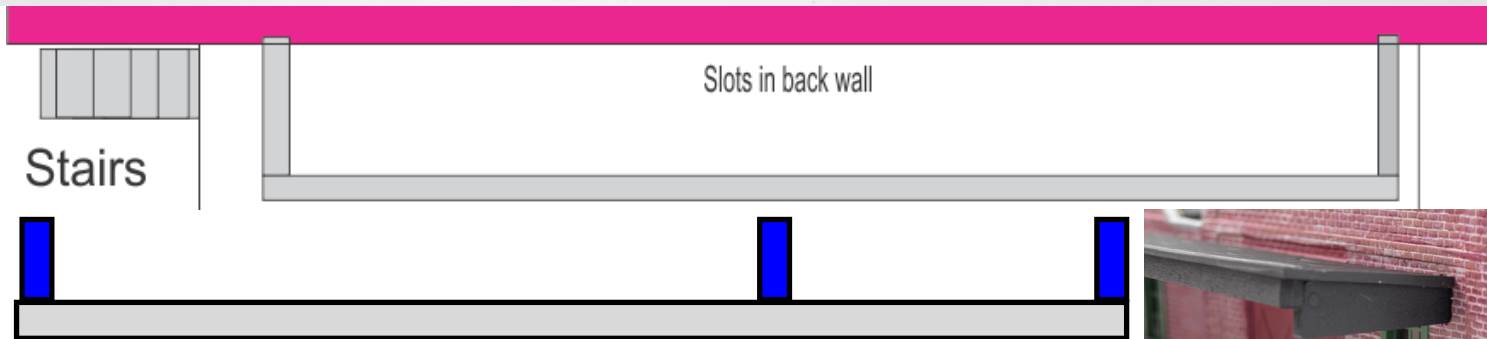
To add a weathered look, spray the entire model with flat black from a distance. This will give a sooty look to the building. Once done you can spray the completed structure with Dullcote to remove any gloss or shine.



If you choose not to detail the inside of your structure, or light it, an effective and quick way to make a good looking background building is to cover the widows with black construction paper from the inside. This creates a dark building look that is more desirable than the view in to an otherwise empty shell of a building.

The blue marks are where the plastic supports go.

The Roof piece fits along the tops of door frames in groove.



Roof Support and wood Brace.

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Roof Top Steel Water Tank

Model 930



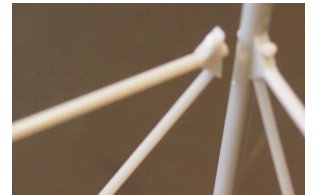
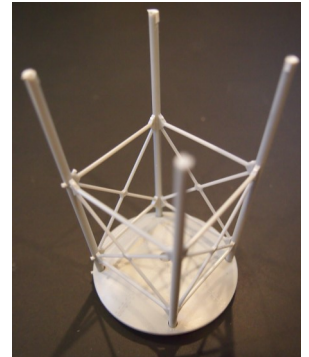
Made In USA



Congratulations, you have purchased the Korber Models #930 injection molded Roof Top Steel Water Tank. This tank represents thousands of similar units that could be seen on roof tops in any city or town 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.

This kit like any, requires a few additional items to complete the construction. We have included suggestions; however you may use any product that fits the function. RustOleum flat spray paints work well for painting the kit, Black, Grey or White, 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), Testor's Dull-cote™ (optional).

- Remove all parts still on a sprue with a sprue nipper or a sharp razor blade. File as needed making sure any unwanted "nubs" are removed.
- Place the tank bottom, bottom side up on your work surface and install the legs in the four holes in the tank bottom. 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.
- Once the four corner joints of the leg assembly have dried, remove the leg assembly from the tank bottom, and apply a drop of glue into the leg holes in the tank bottom. Re-insert the four legs into the leg holes in the tank bottom.
- Once dry, stand the tank bottom on the four legs, and set the tank body on top of the tank bottom. Note the tank body has one end that is slightly larger than the other in diameter, the larger end mates to the tank bottom. Glue in place.
- Next simply add the tank top to the top of the tank body, glue in to place. The end product should look like the photo on the opposite page to the left.
- Optionally you can glue the dowel in hole in the center of the bottom of the tank to represent the large pipe running to the tank
- Spray paint the entire model (usually black, white or grey) and let dry.
- Once dry you optionally can add the included American Flag sticker to the tank.
- Your Korber #930 Roof Top Steel Water Tank is now assembled and ready for placement on the layout. You may wish to provide some additional weathering before you install it as it would rarely look brand new.
- To add a weathered look, spray the entire model with flat black from a distance. This will give a sooty look to the tank. Once done you can spray the completed structure with Dull-cote to remove any gloss or shine.



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