

Korber Models

Scale Model Railroad Structures

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Model TT2105 O Scale Mr. Muffin's Transport Hub Instructions

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12"W x 12"L x

Introduction















Congratulations, you have purchased the Korber Models #TT2105 Mr. Muffin's Transport Hub. This structure represents thousands of buildings that could be seen along the tracks 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 piece 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.

2	MRS300 - Doorway Wall Section 	2	MRS300 - Loading Door insert Beige door 
2	MRS501 - Foundation used with Door Wall 	3	TT350 - 5" - (20 scale ft) Wall with Door opening 
3	MRS703 - Building Top Straight Pilaster 	5	TT450—5" (20 scale ft) Blank Wall 
2	1/2 Sheet of clear plastic "Window Glass" 	3	Injection Molded Entry Door 
2	TT250—5" (20 scale Ft) Wall with Window 	3	TT150—5" - (20scale ft) Wall loading dock Wall 
2	Injection Molded 9 pane window (1-1/2 x15/16) 	1	Roof material 10 15/16" X 8 7/16 " 
8	Loading Dock bases 	2	Loading Dock Decks 

4	Loading Dock Roof Braces (1 set) 	1	Loading Dock Awning 
1	Air Conditioner plus roof accessory 	1	D809—Round Roof vent style 3 
1	Angle brace for back wall Roof support 	1	Sign and board 

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

The Korber #TT2105 Mr. Muffin's Transport Hub, 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
- Light grey or cement color paint for walls
- RustOleum camouflage flat spray paints work well for painting the structure, window frames, and doors
- *Rust-Oleum Stops Rust MultiColor Textured Desert Bisque Spray Paint* works great for a concrete feel to the walls
- Paper towels or soft cloth rags
- Styrene glue to weld pieces together. Testors or plastruct plastic Weld Cement works well
- Medium grit sandpaper or emery board
- Testor's Dull-cote™ (optional)
- Small clamps (optional)
- Flat black or grimy black spray paint (optional)
- Fine saw to cut extra width from back wall to match front

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.

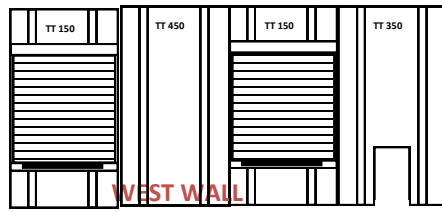
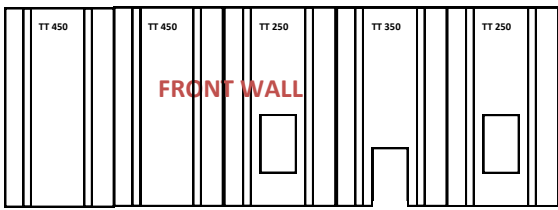
The parts in the kit can be assembled in the color they come in or optionally you can paint them to the final colors you select, it is much easier to do this step before you completely assemble them. The windows and doors come colored in gray, however you may want to apply a light coat of flat paint in the color of your choice, RustOleum Camouflage spray paints give a great look. Paint in a well ventilated area (outside is good).

All the wall sections come colored in a cement gray or cream, however many modelers find a light coat of flat cement color or RustOleum Camouflage Khaki spray paint gives not only a great look, but also makes it easier to add weathering to the walls later on. In a well ventilated area (outside is good) apply a coat to the wall sections. Let the paint dry before moving to the next step.

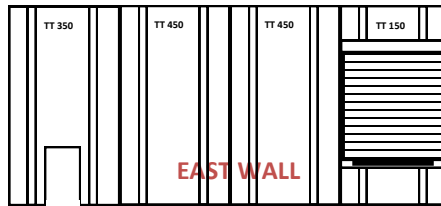
2 - Assembly of Walls

In this step we will assemble the four main wall sections of the structure prior to final assembly of the building. The assembly of the walls of the structure is based on gluing together several modular sections to make a continuous front wall. On following page is a front view drawing of the relationship of the modular wall sections used to make the first wall.

- Some sanding will be necessary. Rough up edges only where you need to glue
- Glue two sections together aligning them on a flat surface face up and let dry
- Repeat the last step but using the remaining modular wall sections to create a continuous wall
- Optionally use clamps as necessary to hold pieces together
- Repeat the above steps for the next wall using the diagram on the next page as a guide



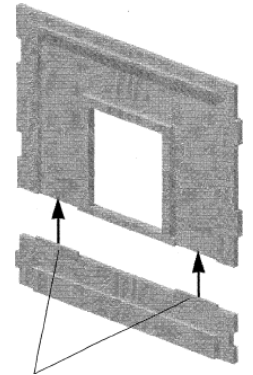
The parts **MRS300** and **MRS501** will need trimmed at both outside edges once center edges are glued so they are same length as Front wall.



The building can be made of any of the parts as long as there are 4 side walls sections and 5 front wall sections.

Back Wall Assembly

- Remove the rounded tab sprues at the top edges of the foundation section. Use glasses or goggles. See safety message included on this instruction sheet.
- The interlocking tab should be trimmed on its top and bottom edge so it fits neatly into the corresponding socket on the building top section that will be next to it.
- File smooth. Place the overlapping joint into the recessed area on either side of doorway. File as necessary to get a good fit.
- Now apply glue to backside of overlap joint on the foundation piece and press onto wall section.
- Lay 2 wall bays next to each other, and press the 2 bays together engaging the tabs on one bay into the sockets in the other bay. **Do not glue yet.**
- Place a finished pilaster in place so that it rests between the raised ridges on the wall sections. If it does not lie flat, file the top surface of the wall tabs. Now apply glue to each wall section 3/8" on either side of the joint you are working on. **Do not put glue on the edges where the next bay will join.** Put the pilaster in place and hold it down. Place some weights on pilaster to hold it in firm contact with the wall bay. There should be no gaps showing.
- Once the glue has completely dried, you will need to measure the length of your wall piece against the front wall section.
- The two sections should be the same length. To accomplish this, use a hand saw to trim down the outside edges of the back wall. This step needs to be done before you put on the the other two pilasters.
- **The Front and back walls sit inside of the side walls**
- The end pilasters overlap the edge of building.



3 - Assemble & Install windows & doors

The windows & doors 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 & door frames
- If the window & door 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 or door detailed (outside) side down on a flat surface
- The windows & doors are designed to insert in the opening from the back, or inside of the building
- Apply a small amount of glue around the edge of the frame and insert in the openings on the wall pieces
- Let the glued windows & doors 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 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 affect 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
- Cut window materials to fit over the back of each window & door – glue in place



4 - Assembly of Main Structure

The assembly of the main structure is based on making a simple rectangle shaped structure when viewed from the top. To the right is a top view drawing of the relationship of the wall sections.

Placement of walls

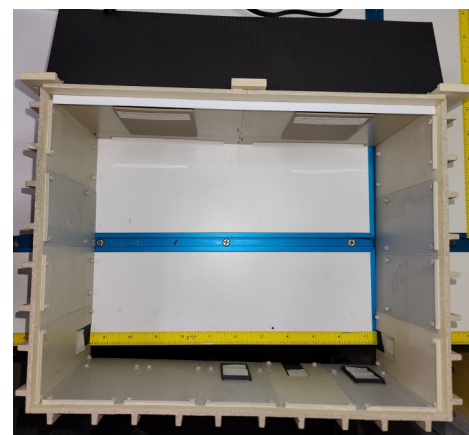
- Some sanding may be necessary. Rough up edges only where you need to glue
- Take sidewall one and the front wall and line them up to make a right angle. The use of a small square is helpful. The front wall sits butt up to the inside edge of the side wall . Dry fit the walls to ensure a smooth seam is made. You will note the walls have small tabs in the back of the wall to assist in alignment, you may need to trim flashing material from the alignment tabs on the back. Glue the two wall sections together.
- Repeat the last step but using the remaining side walls to make a rectangle.
- Optionally use clamps as necessary to hold pieces together.



5 - Install roof

The #TT2105 Mr. Muffin's Transport Hub one level of rectangular flat roof made from a black material. The intent is to glue the pieces to the molded cleats which are about 1/4" below the top of the wall sections of the building.

- First, add the angled white styrene cleat to back wall at same height as side walls
- The black roof material parts measuring 11" x 8.50" are designed fit together inside the four walls and rest on the molded cleats in the side walls. Make sure there is no support roofing along edges, so roof will sit flat on molded cleats. You can glue in this place. You may want to paint the upper inside section of the walls black to match the roof material. As an option, you can use fine gravel to glue to roof for more realistic feel.



6 - Build Rooftop Air Conditioning Unit

The roof top Air Conditioner unit consists of six parts, four walls, a top and a bottom, all of which may be attached to the same sprue.

- Trim flash or sprue from the pieces to create the six parts, two end walls, two side walls, a top (larger) and a bottom.
- The parts come molded in a silver color, and do not need to be painted.
- Glue together the four sides to make a rectangle with two ends (shorter) opposite each other and two sides (longer) opposite each other. Use a small square if needed to make a right angle joint.
- Once the side sections are dry, glue the bottom section to the underside of the assembly between the legs.
- Once the bottom sections is dry, glue the roof section to the top to enclose the structure
- The final product should look like the photo to the right.
- Repeat the above steps for the second unit
- Place on the roof and glue in place



7 - Roof top Accessories

This kit comes with a variety of rooftop chimney pieces, chose the ones you would like to use.

- Trim or sand off any flashing
- paint desired color then weather to suit.
- Add a little glue to bottom and place on roof.



8 - Loading Dock and Roof

The loading dock is made of 2 decks and 8 bases.

- Trim off any flashing and sand smooth
- Align the 2 decks and glue the middle together
- Add the base pieces on bottom edge. The middle piece needs trimmed to fit .
- The side bases should be even with back edge that butts up to back wall
- Now glue to building around edge of loading dock door frames.
- For the Roof, add loading dock braces below the bump out ridge on back wall.
- When the glue is dried, Add the corrugated roofing . When it is trimmed to fit just right, glue along the back edge and braces



9 - Final Detailing – Weathering

Your Korber Models #TT2105 Mr. Muffin's Transport Hub 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.

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.

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TRANSPORT HUB

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