

# CONCEPT MODELS

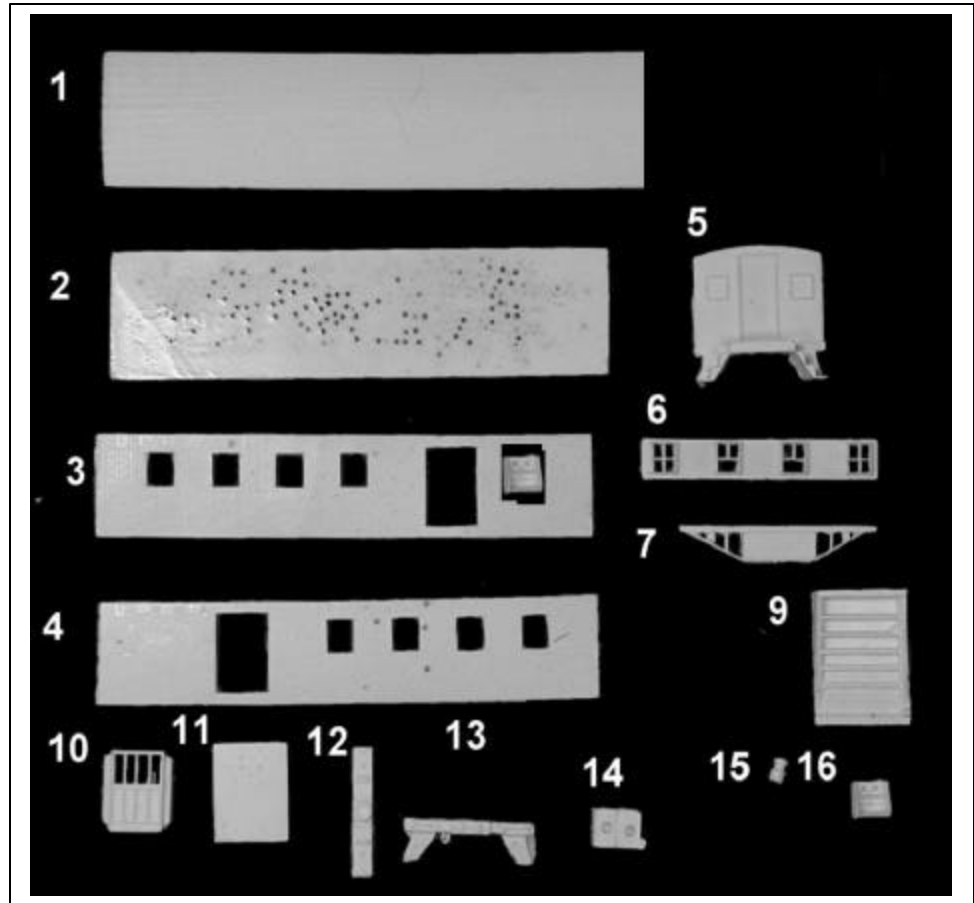
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Mountain Ranch, CA 95246



**INSTRUCTIONS FOR PRODUCT  
UP PHOTO CAR**

**PARTS**



Item No.	PART NO.	DESCRIPTION	QTY.
1	4501-1	Roof	1
2	4501-2	Floor	1
3	4501-3	Left Side	1
4	4501-4	Right Side	1
5	4501-5	End	2
6	4501-6	Window Set	2
7	4501-7	Tool Box / Truss Rod Assy	2
8	4501-8	- not used on this version-	
9	4501-9	Skylight Window & Baffle	1
10	4501-10	Door	2
11	4501-11	Tool Box Spacer	1
12	4501-12	Truck Bolster	2
13	4501-13	Platform End – cast set	2
14	4501-14	Wire Bending Jig	1
15	4501-15	Vents	2
16	4501-16	Stack	1

GENERIC PARTS	QTY.
3/16" Pan Hd. Screws	2
"K" Brake	1
Coupler Pockets (Std.)	2
Clear styrene Skylight cover 6'6" x 9'6" x .005"	1
Decals (set)	1
Instructions	1

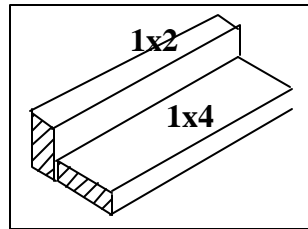
## Tools

All basic model workers tools – files, motor-tool with fine burrs, hobby knife, Wood blocks for holding parts square, metal square, etc.

Drills: 1/8", #76, #72, #68, #50 (2-56 tap drill), #65

Music Wire .020" for handrails. Athearn stanchions for tanks cars.

Pins (dressmaker type) for attaching brake wheels and other items.



This fixture is a great aid to assembly. It helps hold parts square while gluing and aids in drawing horizontal lines on tanks for tank cars.

## Instructions

**NOTE:** This kit consists of resin castings and must be assembled with an ACC cement (not provided) – both the thicker types as well as the thin. Solvent cements will **NOT** bond the parts together! They can dissolve them. Resin parts are more fragile than common styrene plastic used in injection molded models. Use reasonable care in handling and do not apply any solvents. The illustrations at the front show the general layout of parts for the car. Work very carefully when positioning the parts for gluing. ACC cements adhere very quickly and permanently.

## Gluing with ACC Cements – USE WITH CARE

ACC cements allow the modeler to work very quickly. A general rule is to use the thin cements to glue long joints taking advantage of capillary action that makes the cement run the length of the seam. The thicker cement is suited to applying large area parts to each other. An accelerator can be applied sparingly. One technique is to apply the glue to one part and the accelerator to the other part to be joined. I also use a Q-tip to apply a minute amount of accelerator to the glue after the parts have been joined. The accelerator triggers the ACC cement to set very quickly. It is only slightly slower with the thicker cement.

**PREPARATION** Wash the parts before assembling with a dish washing detergent such as “Dawn”. Rub lightly with a soft sponge.

## **WARNING**

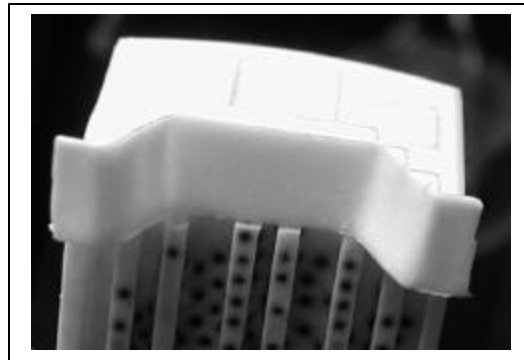
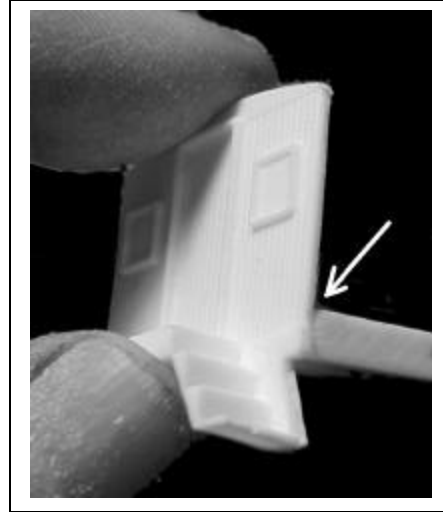
Some parts may have lead encapsulated within them. In the event the lead is exposed for any reason, do not allow it to remain on the skin. Dispose of any lead shavings that may result. Obey all safety precautions of all suggested cements and assembly materials.

## ASSEMBLY

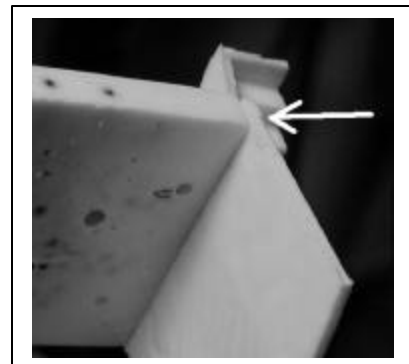
**1** Make sure the floor is the same length as the inner roof. Trim the floor as necessary. After that, match the curve of the end against the interior roof curvature. File slightly at the ends and it should match.

**2** Note: The sides are slightly wider than the floor. The following will make use of that issue.

Attach the ends to the floor centered with the bottom sill flush with the bottom of the floor. The



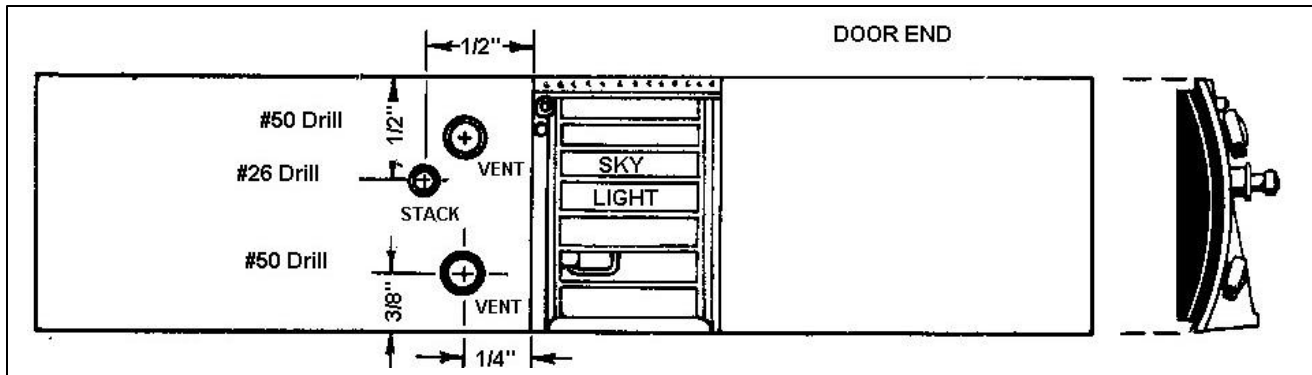
**3** File away the over hanging portion of the ends to make the sides flush with the floor.



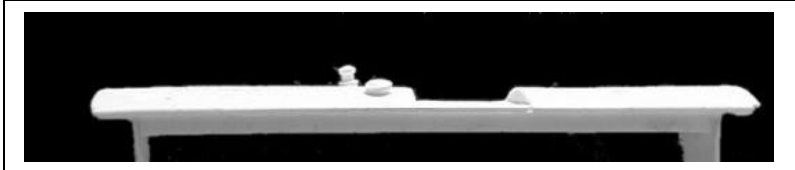
4 File the side window and door openings to get an easy fit. Install the window set with the large single pane in the center widows facing toward the bottom of the side. Clamp as necessary until cement has set. Install the door as shown. Note that there are left and right sides and are a mirror of the door and window layout.



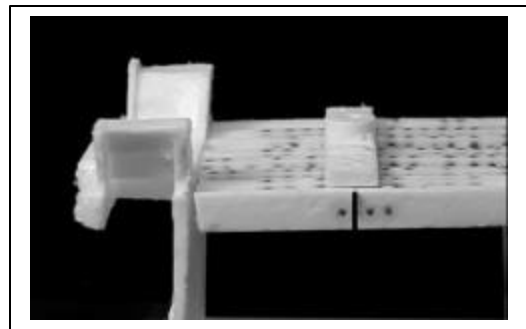
5 Drill the Roof as shown for the vents and stack ON THE LONG END. Add the vents and the skylight at this time.



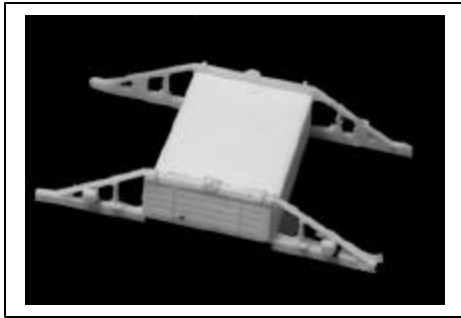
6 Cement the Roof to the car ends as shown.



7 Install the truck bolster 5/8" from the end of the floor.



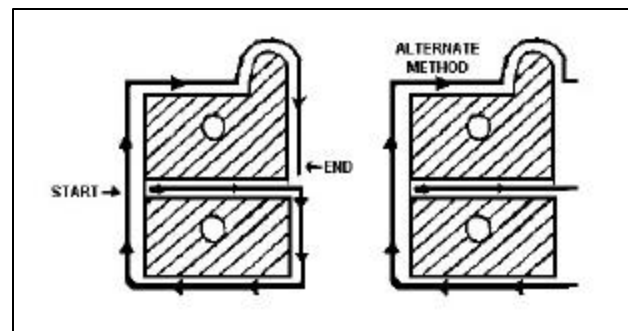
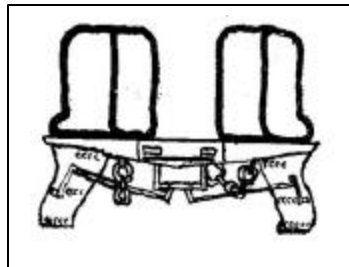
**8** Cement the Truss Rod/Tool Box side to the Tool Box Spacer on a flat surface. Then, cement the assembly to the car floor centered between the truck bolsters.



**9** Drill #76 holes for the end railings in the Platform End Set. There are indentations to guide you. Cement the Platform End Set to the steps and end platform.



**10** Use the wire bending jig to create handrails. If you are using a stiff wire, make the railings in two pieces; solder of glue the center vertical bar to the top. The sharp curve is easy to make using the Kadee coupler adjustment tool which is actually a jewelers ring pliers,



## PAINING

- 1) If you followed the instructions for cleaning the parts before assembly, you are ready to paint. A primer such as Floquil's is recommended. Allow to dry overnight before proceeding with any of the color coats. When painting with white do not over dilute with thinner. Twenty five percent thinner should be sufficient and will improve coverage. Dark colors can be diluted up to 50-50. Two coats of white with plenty of drying time in between are recommended. White on top of primer is recommended for light colors yellow through red. It improved the color.
- 2) Overcoat entire car with Testor's Glosscoat prior to decaling. If you decal over the Glosscoat as soon as it is dry to the touch, decal adhesion is improved.

## DECALING

NOTE: The decals provided are a very thin film decal film. Success with these decals depends on following these instructions. The glue used for the decal sheet is different than what has been used in the past. The water does not dissolve the glue. Water causes a chemical reaction causing an almost immediate release of the decal. For this reason once the decal has been wetted it must be used quickly. It cannot be re-wetted later for use.

- 1) Cut out the decal segment you are going to apply.
- 2) Dip the decal in warm water which has had 1 drop of DAWN kitchen detergent. Do **NOT** leave the decal to soak in the water and slide off the backing..
- 3) Slide the decal directly off of the backing onto the wetted surface with a small brush or tweezers. Position with the brush. Remove excess water with a tissue.
- 4) A decal setting solution is recommended for best adhesion.
- 5) Top coat the decals with Testor's Dullcote for best results.