

# CONCEPT MODELS

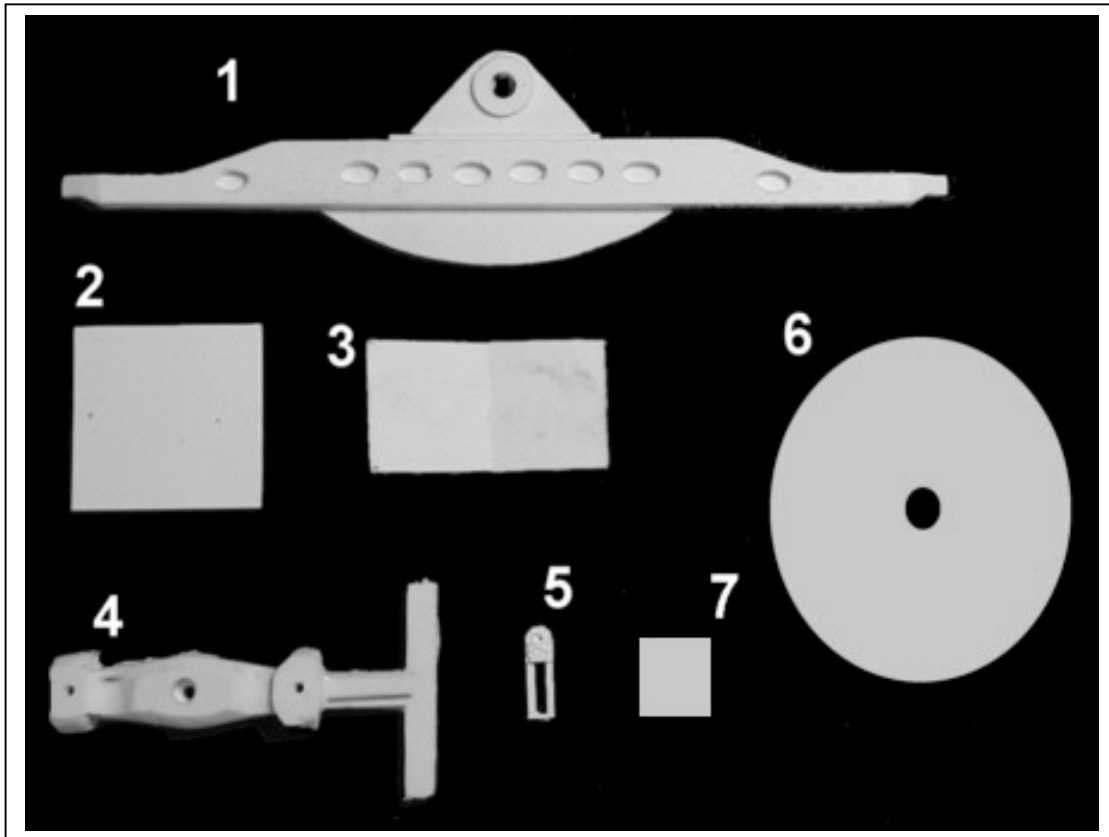
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**INSTRUCTIONS FOR PRR 470249  
SPECIAL WELL FLAT CAR**

## PARTS - PRR 470249 WELL FLAT CAR



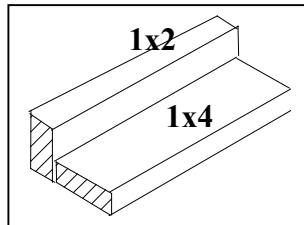
Item No.	Part No.	DESCRIPTION	QTY.	Part No.	GENERIC PARTS	QTY.
1	9006-1	Side Frame	2		3/16" Plastic Tube x 8'6"	1
2	9006-2	End Deck – 9' s.f. x 9'6" s.f. x .080" Styrene	2	1014	3/16" x 2-56 Screws	2
3	9006-3	End Block	2	1016	3/8" x 2-56 Screws	2
4	9006-4	Truck Bolsters	2	1010	Brake Wheel	2
5	1021	Brake Stand (STD)	2	1011	Small Pin	2
6	9006-6	Load Wheel	1		.020" Styrene 6'6"s.f. x 22' s.f.	1
7	9006-7	Bolster Mounts	2	9006	Decals (set)	1
8	1028	Coupler Pockets (CM)	2	9006	Instructions	1
9	B-25	End Fascia	2			

## 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.



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.

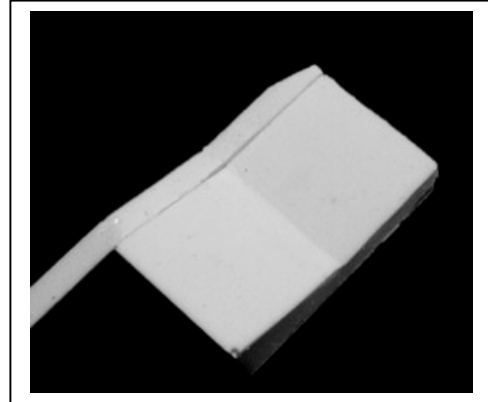
### **WARNING**

Some parts 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.

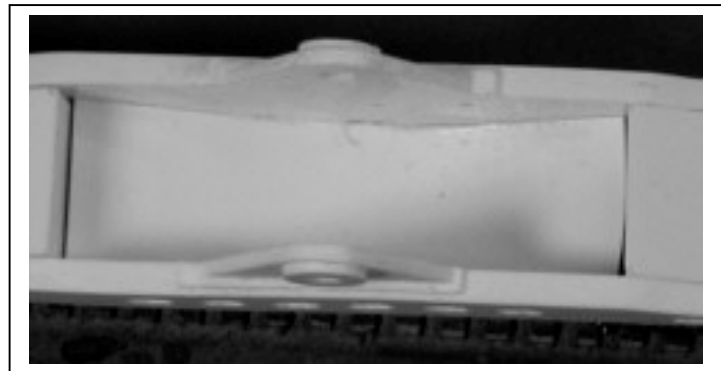
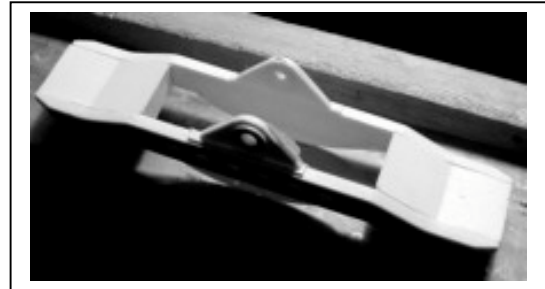
**PREPARATION** Wash the parts before assembling with a dish washing detergent such as “Dawn”. Rub lightly with a soft sponge.

## ASSEMBLY

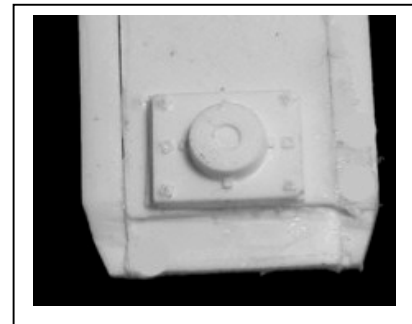
**1** Cement Side Frame (1) to End Block (3) as shown. Turn the side frame around and add the other end block the same way.



**2** Add the 2<sup>nd</sup> side frame to complete the assembly as shown. Next add the styrene filler to fill out the well bottom. Pre-curve the styrene over a warm surface to ease installation. Start by pressing into place from the top and forming to the curve of the sides. This goes easier if you spot glue as you go. Fill the seam with ACC cement from the inside. Here's where an ACC accelerator like "Zip Kicker" works well.

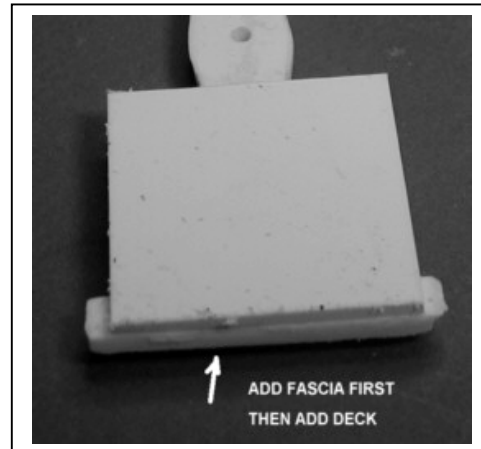


**3** Add the Bolster Mount (7) centered adjacent to the recess in the end block. Both ends are the same. Drill a 2-56 tap drill hole centered in the bolster mount. **Do not drill all the way through.** Tap each hole for 2-56 screw threads.

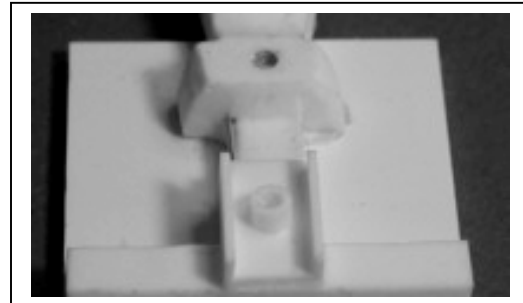


### Truck Bolster Assembly

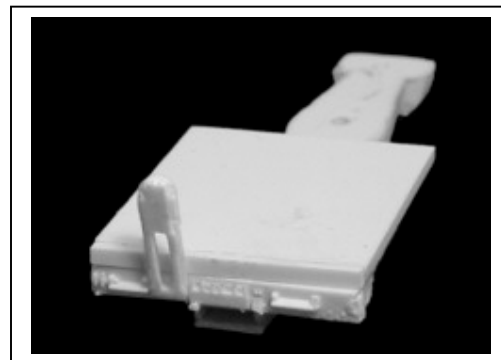
**4** Add the End Fascia (9) to the the Truck Bolster (4). Cement it even with the top of the truck bolster. The End Deck (2) overhangs the End Fascia. Add the End Deck (2) as shown.



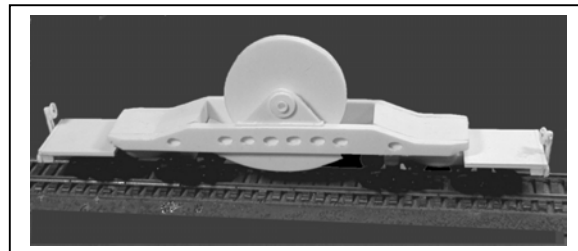
**5** Add the Coupler Pockets (8) as shown. The notch on the back of the pocket goes inboard on the bolster.



**6** Add the Brake Stand (5) as shown. Add coupler pocket covers and secure with the 3/16" screw provided. This completes the truck bolster assembly.



**7** The segments of the car should be painted at this time. The load should also be painted. The car is assembled by attaching trucks and couplers to the bolsters and the attaching the bolsters to the main car body.



## PAINING

If you followed the instructions for cleaning the parts before assembly, you are ready to paint. A primer 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.

- 1) Now that Floquil has left the scene I'm buying primer from ACE hardware as an enamel part of their rust proof line. A half pint goes a long way. Especially when you thin it 3 parts lacquer thinner to 1 part paint.
- 2) 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 improves the color.
- 3) After painting overcoat entire car with Testor's Glosscote prior to decaling. If you decal over the Glosscote as soon as it is just dry to the touch, decal adhesion is improved.

## DECALING

The decals provided are a very thin film decal film. Success with these decals depends on following these instructions.

- 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.
- 3) Slide the decal directly onto the wetted surface with a small brush. Position with the brush. Remove excess water with a tissue.

NOTE: 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.

- 4) Top coat the decals with Testor's Dullcote for best results.

