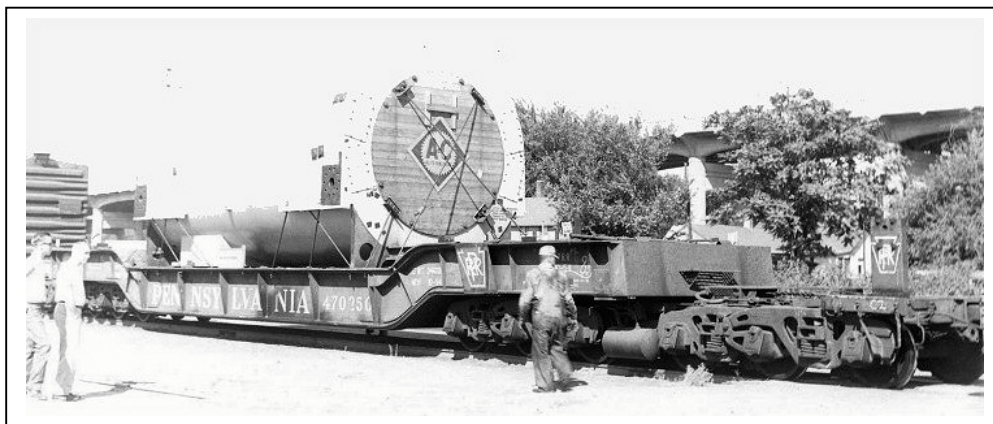


CONCEPT MODELS

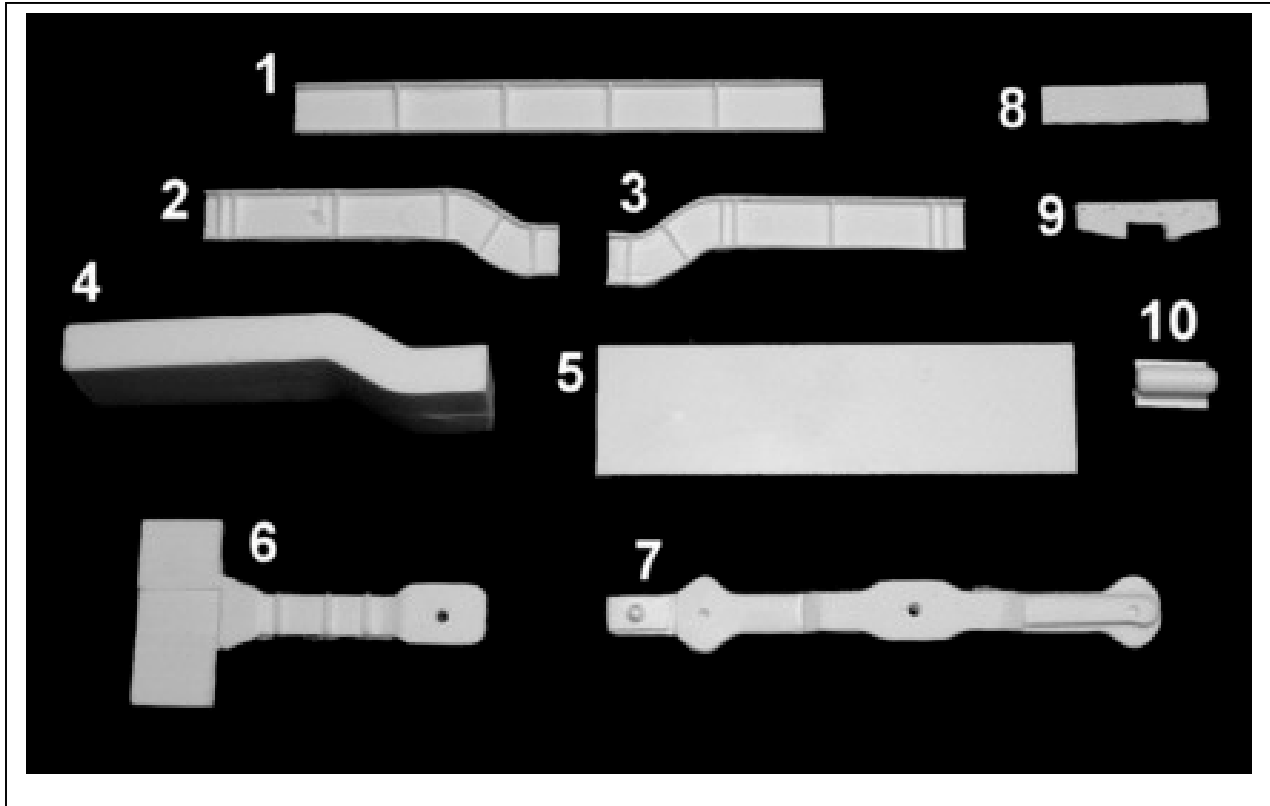
Web Address: <http://www.con-sys.com>
Email: concept_models@con-sys.com

8331 Sheep Ranch Rd.
Mountain Ranch, CA 95246



**INSTRUCTIONS FOR PRODUCT
PRR 470256 DEPRESSED FLAT**

PRR 470256 PARTS



Item	PART NO	DESCRIPTION	QTY
1	9004-1	Floor Beam	2
2	9004-2	Left Lift Girder Face	2
3	9004-3	Right Lift Girder Face	2
4	9004-4	Lift Girder Core	2
5	9004-5	Floor Core	1
6	9004-6	Truck Bolster Top	2
7	9004-7	Truck Bolster Bottom	2
8	9004-8	Catwalk	2
9	9004-9	End Fascia	2
10	9004-10	Air Tank	4
11	9004-11	Logo Mount	2
12	9004-12	Brake Stand (PRR type)	2

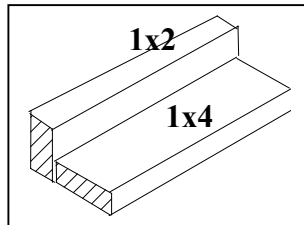
PART NO.	GENERIC PARTS	QTY
	1/8" Tube x 2 s.f.	2
1013	1/8" x 2-56 screws	2
1016	3/8" x 2-56 screws	4
1041	Brake Mech.	2
1010	Brake Wheel	2
1011	Small Pins	6
1012	Coupler Pocket Covers	2
	Decals	1
	Instructions	1

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.



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.

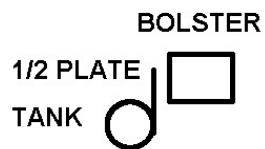
PREPARATION Wash the parts before assembling with a dish washing detergent such as “Dawn”. Rub lightly with a soft sponge.

ASSEMBLY

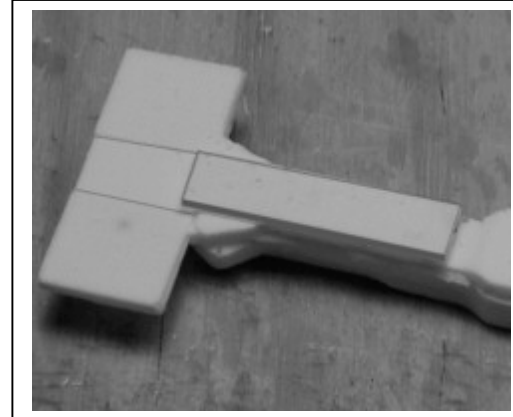
1 Cement the truck bolster top (6) to the bottom (7). Use a 2-56 clear drill for a guide as shown. After the cement is set, drill a 1/8" hole no more than the thickness of the bolster top on the top side, center of the bolster. Work carefully. Use a pin vise if you do not have a drill press with stops.



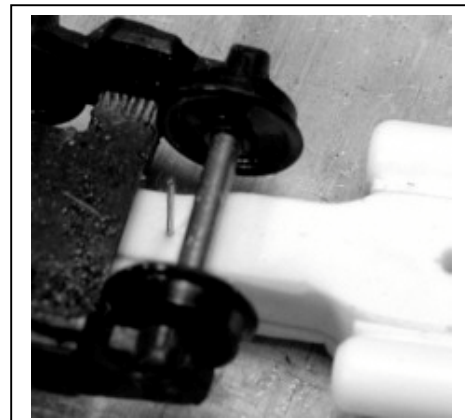
2 Cut off 1/2 of the tank mounting flange and glue the air tanks (10) to each side of the truck bolster. The lip in the tank should be even with the seam on the bolster.



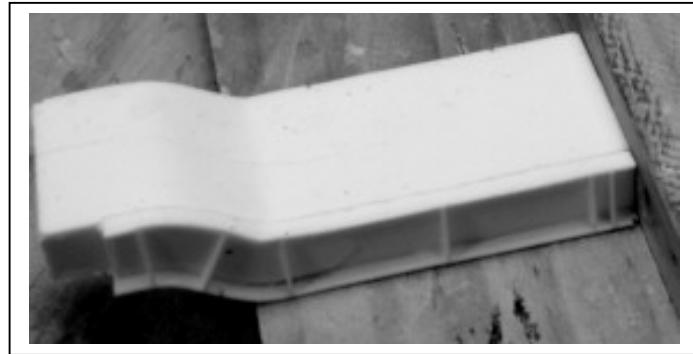
3 Apply the catwalk as shown. The catwalk overlaps the end platform slightly.



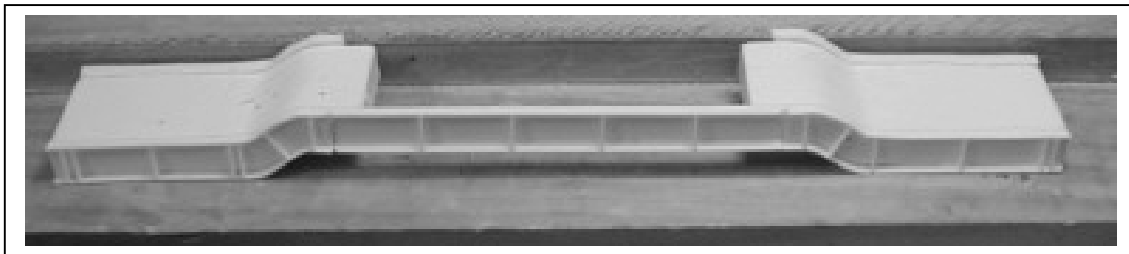
4 Install 6-wheel Buckeye trucks as shown. Drill a #76 hole and place a small pin as shown to keep the trucks from swiveling when placed on the track. Trim pin to clear.



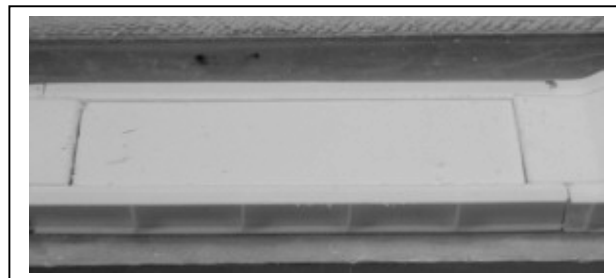
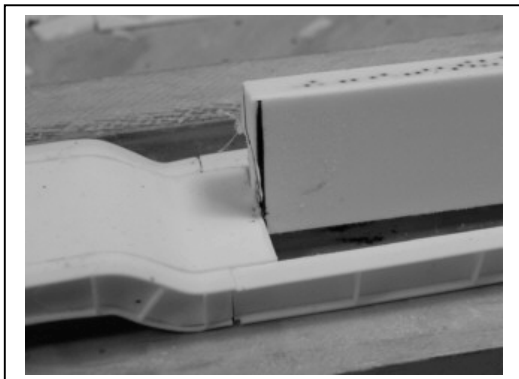
5 A fixture as we describe on page 3 is a great aid for the following steps. Cement the Left Lift Girder Face (2) exactly flush with the end and the top of the Floor Core (5). Do the same with the Right Lift Girder Face (3). Make both ends the same.



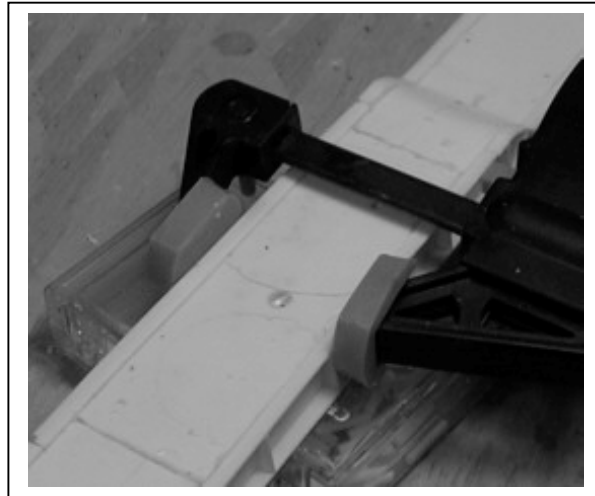
6 Position the end pieces against the fixture as show. Install the Floor Beam (1) as show. Make sure the glue is set before continuing. After the glue has set, turn the assembly around and add the second Floor Beam in the same manner.



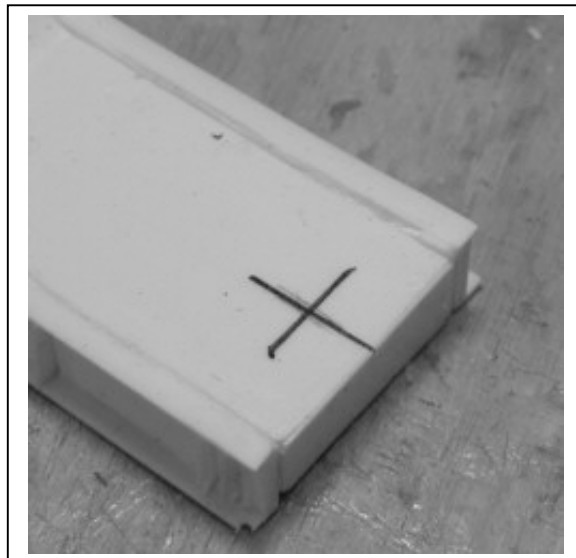
7 File away a corner of the floor core as shown to get the fit measurement. Once you are sure of the floor length, draw a line with a square across the floor core and remove the material to the line. A motor tool with a 1/4" rotary cutter works well for this. The floor should drop in the opening very snug but should not deform what has now become the dressed floor assembly of the car.



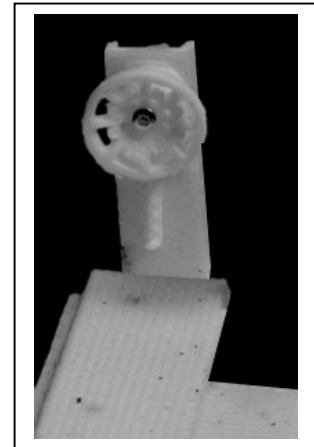
8 Apply cement to the core and replace in the cavity. Use capillary action of the liquid cement to fill any gaps. Clamp with light pressure as shown until cement has set. The assembly should look like the picture below.



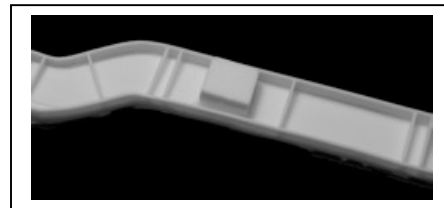
9 Mark the bottom of the ends for drilling as shown $\frac{1}{4}$ " from the end and centered. Drill a $\frac{1}{8}$ " hole no deeper than halfway through the assembly. You might want to do this with a series of small drills. If you do not have access to a drill press with stops, use a pin vise and work carefully!



10 Sub assemble the brake stand as shown by applying the brake wheel to the brake mechanism with a small pin. Cut the pin off and file the back of the mechanism smooth. Apply the assembled Brake Mechanism to the smooth face of the brake stand. The open face of the I-beam structure faces outward and is cemented to the top surface of the end platform. Do both ends of the car the same.



11 Cement the PRR Logo Mount (11) on the right hand lift girder face as shown.



PAINING

. Use a lacquer based primer such as floquil.

- 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.

Overcoat entire car with Testor's Glosscoat prior to decaling.

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 and the decal to leave the backing.
- 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.

