

# CONCEPT MODELS

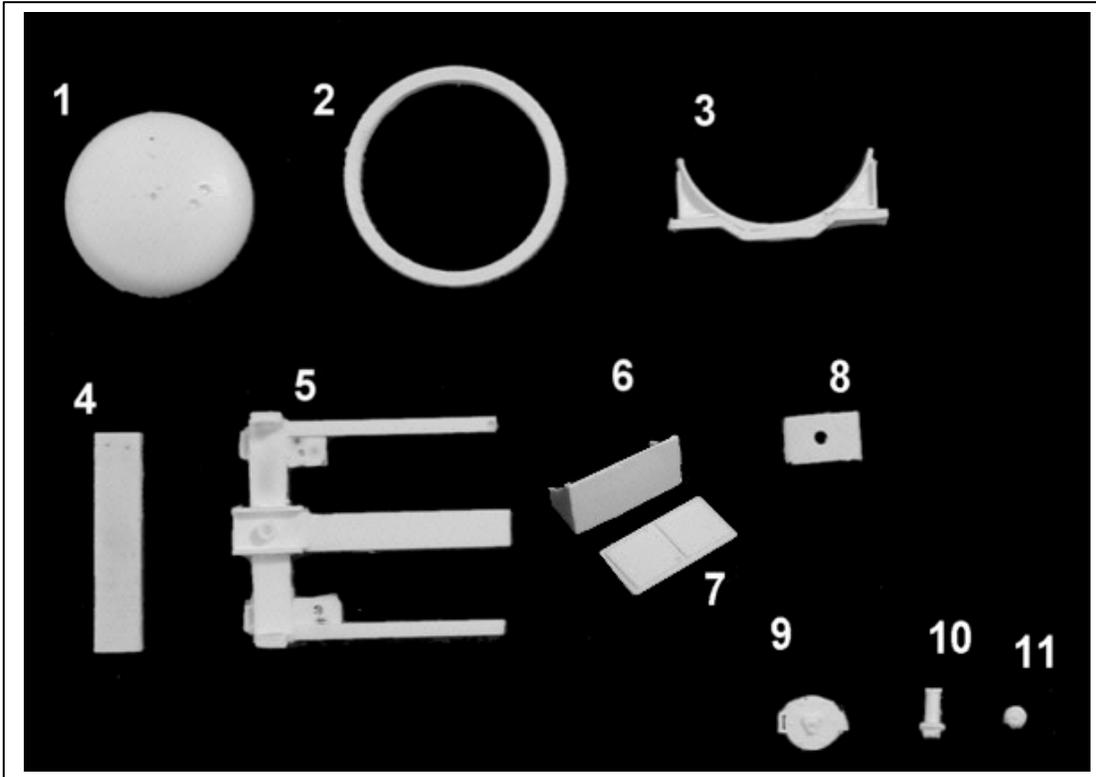
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**INSTRUCTIONS FOR PRODUCT:  
IAPX 1011 ARGON TANK CAR**

## PARTS IAPX 1011 TANK CAR



Item No.	Part No. 8501	DESCRIPTION	QTY.
1	1000	Med Pressure End – pr	1
2		Tank Rings .015” x .250” x 4-1/2” styrene strips	5
3	1003	Tank Saddle Halves	4
4	1004	End Deck	2
5	1005	End Sill	2
6	1007	Control Cabinet Face	1
7	1006	Control Cabinet	1
8	1008	Coupler Pocket Cover (CM)	2
9	1038	Hatch	1
10	1061	Bottom Drain	1
11	1058	Dome Vents	8

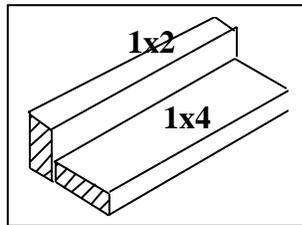
Part No.	STANDARD PARTS s.f. = scale feet	QTY.
1014	3/16” X 2-56 screws	2
1018	Brake Valve	1
1020	Brake Reservoir	1
1019	Brake Cylinder	1
1041	Brake Wheel Housing	1
1048	Brake Mech. Mount	1
1010	Brake Wheel	1
1011	Small Pin	1
	PVC Tank Tube – 58 s.f.	1
1049	Placard Holders	4
1050	Placard Mounts	2
8501-T	Tank Template	
8501-D	Decals	1
8501-I	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.

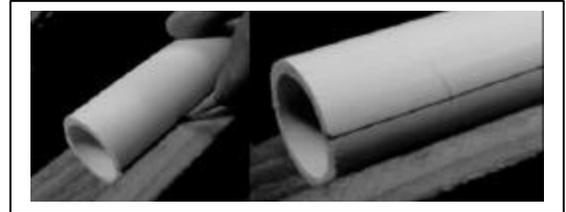
### **WARNING**

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.

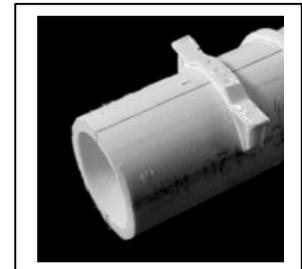
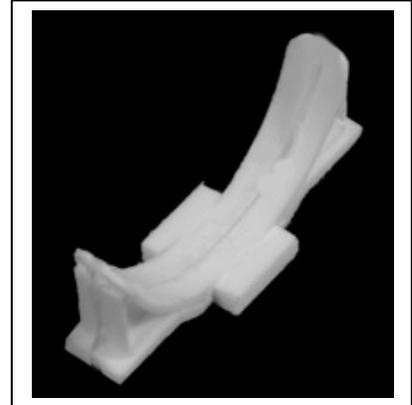
**PREPARATION** Wash the parts before assembling with a dishwashing detergent such as “Dawn”. Rub lightly with a soft sponge.

## ASSEMBLY

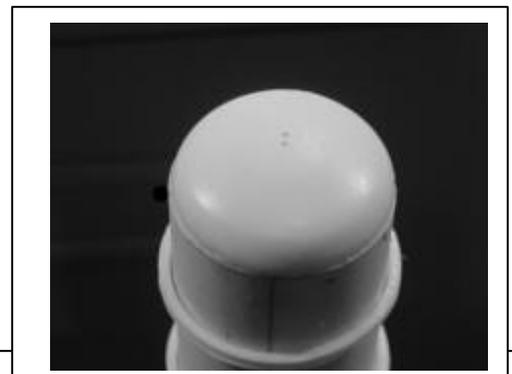
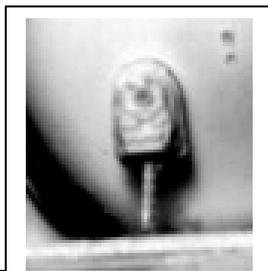
**1** Mark the end of the tank tube and extend to the sides of the tube and draw two lines 180 degrees apart on the sides of the tank tube. Mark: TOP, BOTTOM, A-END, B-END.



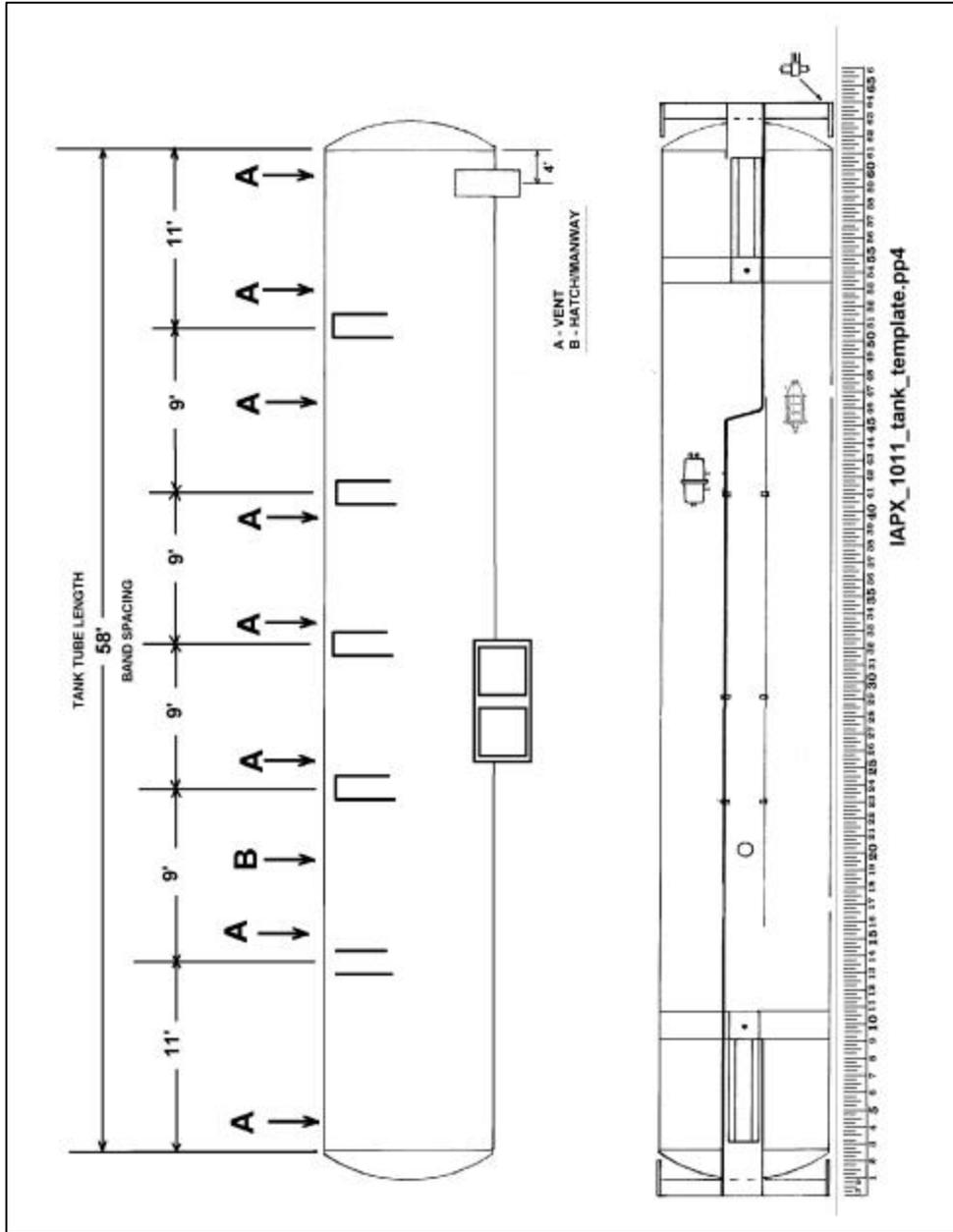
**2** Cement the saddle halves together as shown. File and smooth all seams. Position the Tank Saddles (3) as shown in the overall diagram against the marks made on the bottom of the tube center. Cement in place. Make sure the saddles are parallel to each other. Mark the positions for the thin ring strips. Start by putting a drop of cement at the top of the tank then apply the strip causing the cement to run inside the strip. Repeat cementing the rest of the strip into place with the seam at the bottom. Trim the seam when dry.



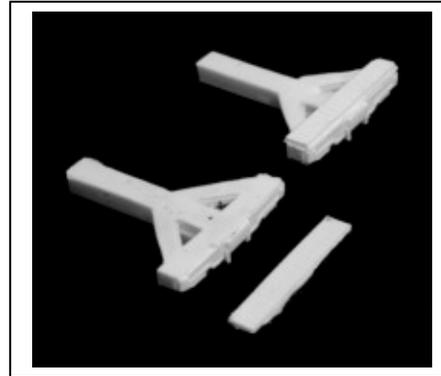
**3** Install the Hi Pressure Ends (1). The one with the indentations belongs on the B-End of the tube where the brake mount gets installed.



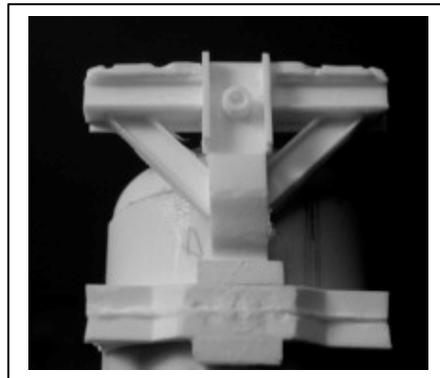




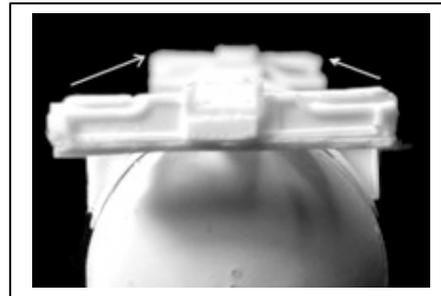
**4** Add the decking to the end sills. The trailing side braces can be cut off since they are not used on this car. (The photo may vary from the actual part supplied.)



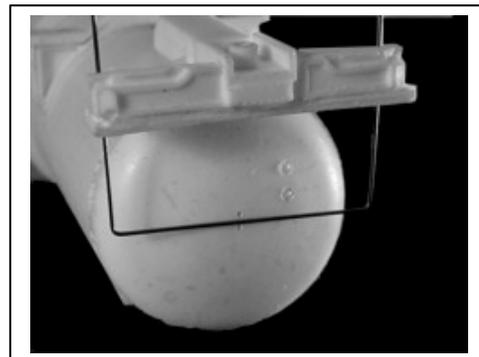
**5** Cut off the sill so that the inside edge of the sill is about even with the end of the tank. Attach the first end sill as shown.



**6** Attach the other end sill making sure that the ends are in parallel alignment. Now apply the control box without the face as shown in the overall diagram. Add the faceplate to minimize the gap between the control box and the tank.



**7** . Make a guard railing from .020" steel (not provided) and install as shown in the End Sill (5). It will be necessary to drill with a .020" drill (#76). Using the guardrail as a guide, position it to touch the end of the tank then cement the bolster in place.



8 Placard holders are installed in the four standard places on a tank car - one on the right bolster and one on the deck sill each side/end. (They're visible in our photos.) For the ends drill a hole up through the deck close to the tank and cement the placard holder in place.

9 Add the tank details to the top of the car as shown on the layout drawing. Add brake components to the bottom of the car and add the brake wheel to the brake mechanism. Add a .020" guard rail to both sides of the car anchoring it to the end platforms. Add Athearn Stanchions as shown on the photo (10 places).

## PAINTING

. Use a lacquer-based primer such as Floquil then the paint all white.

- 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 drying overnight before proceeding with any of the color coats. When painting with white do not over dilute with thinner. Twenty fine percent thinner should be sufficient and will improve coverage. Two coats of white with plenty of drying time in between are recommended. After the white is thoroughly dry, the bottom blue color can be applied. Floquil Light Blue and White mixture can approximate the coloration.
- 2) Overcoat entire car with Testor's Glosscote prior to decaling.
- 3) NOTE: Although I admit that I usually wait only until the paint is dry, about an hour, and then apply the second coat. After the second coat is dry, immediately apply Testor's Glosscote and you can be ready to decal in minutes; keeping in mind that the pain will be soft. The evaporating solvent from the Glosscote improves the decal bond.

## 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.

