CONCEPT MODELS

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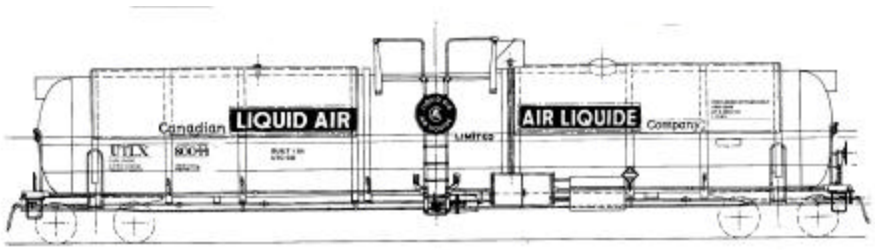
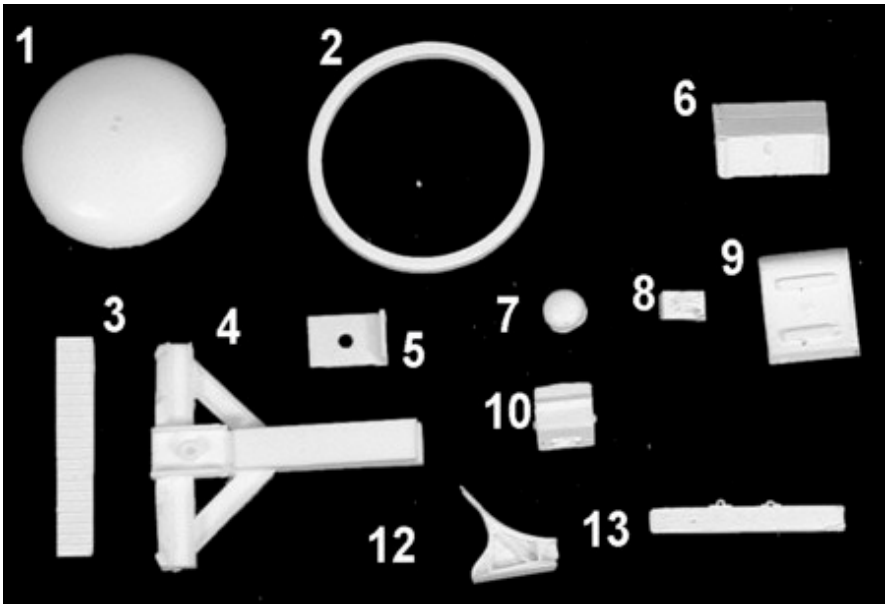


UTLX 800XX CRYOGENIC TANK CAR

PARTS - RINGED CRYO. TANK CAR KIT



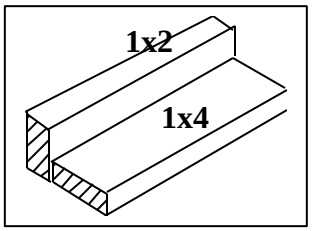
Item No.	PART NO. 8506		QTY.
1	1000	Med.-Press. End (pr)	1
2	1033	Tank Ring (.125")	12
3	1043	End Deck	2
4	1042	Deck Sup./Bolster (.200 sill)	2
5	1032	Coupler Cover (CM)	2
6	1073	Control Cabinet	2
7	1034	Dome	1
8	1035	Single Drain Box	1
9	1036	Coil Housing	1
10	1037	Double Drain Box	2
11	1038	Hatch	1
12	1039	Tank Saddle Support	4
13	1040	Ladder Support	2
		Tank Layout Template	1
		Tank Wrapper - .010" x 15'-3" x 19'-6"	1 80067 ONLY

PART NO,	GENERIC 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
1048	Brake Mech. Mt.	1
1041	Brake Mechanism	1
1010	Brake Wheel	1
1049	Placard Holder	4
1050	Placard Mounts	2
1011	Small Pin	1
	Decals per specific model	1
	Instructions	1

Tools and Supplies

All basic model workers tools – files, motor-tool with fine burrs, hobby knife, Wood blocks for holding parts square, metal square, etc. 36" length of .020" music wire. Athearn stanchions

Drills: #76, #72, #50 (2-56 tap drill)



A gluing fixture is a great aid to assembly and marking the longitudinal lines on the tank body. It helps hold parts square while gluing.

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! 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.

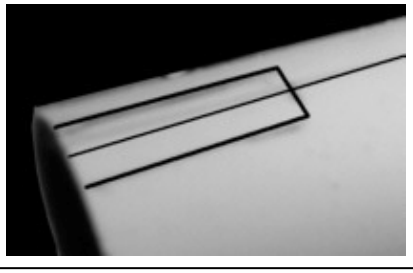
IF YOU WANT PAINT TO STICK -

Wash the parts before assembling with a dish-washing detergent such as "Dawn". Rub lightly with a soft sponge. Rinse and dry. Compressed air works nice for blowing water off the parts.

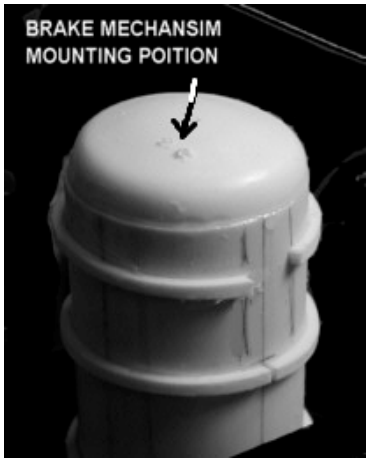
ASSEMBLY

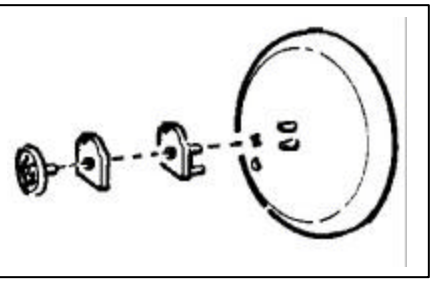
1 Clean the entire Main Tank Tube with lacquer thinner or acetone. Work fast since the chemicals can soften the PVC if left on for a long time. The idea is to remove the printed markings and take off the gloss surface. Draw a line the entire length of the tube using a straight edge as shown. Transfer the position of the line as shown and draw a second line 180 degrees from the first. This provides a center line top and bottom of the tank tube.

2 Use the provided template to mark the location of the reinforcing rings on the tank tube. Measure the location of the stub sill 6 scale feet and mark as shown.
To install reinforcing rings and the tank bolster, apply just a spot of glue on the top and wait for the cement to set. After making sure the part is straight (perpendicular to the tube length), on the bottom cut out a small part of the ring to allow it to be pulled tight around the tube and cement the rest of the ring to the tube.

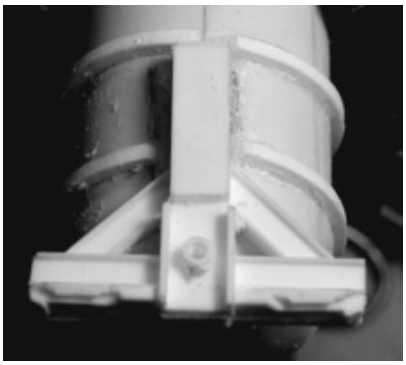


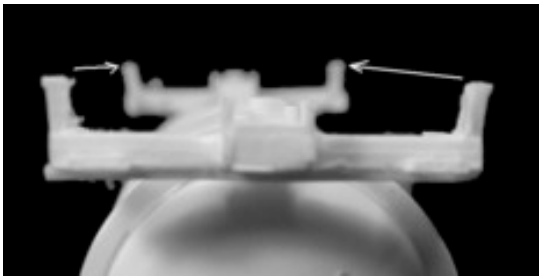
3 Cement the Tank Pressure Ends (3) to the tank tube. One end will have markings for installing the brake mechanism mount. Orient as shown. Label this as the “B” end.



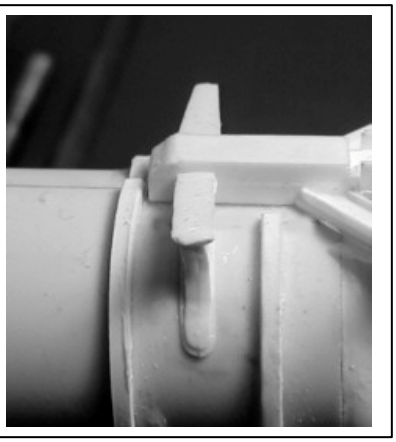


4 Install the stub sills as shown. Be sure to get then perpendicular to the car's centerline. Clip the "tails" off. They are not used on this car. Check for alignment as shown.

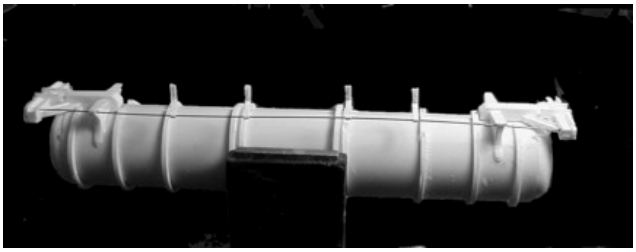




5 Install the Tank Saddle Braces (12) at the bolster/truck location point as shown.

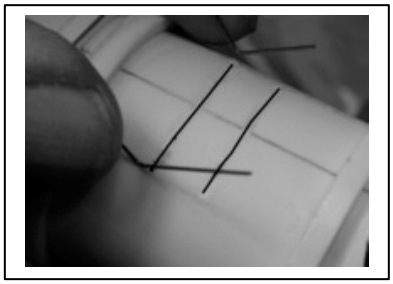


6 Drill a #76 hole at the tip of the Tank Saddle Braces and thread .020" music wire through the holes. Cement in position at the ends. The pictures at the front of this document show three braces per side. Use Athearn Stanchions for a durable support that will withstand club handling.

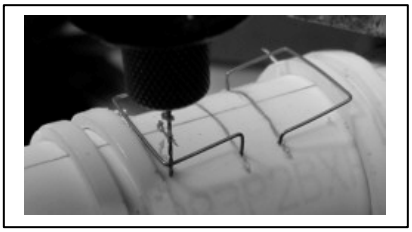


7 Cut the railing template from the Tank Layout drawing provided. (I use rubber cement for temporary attachments.) Mark the four wire locations where the handrails will attach to the tank.

8 Make sure the holes for the railings line up across from each other. Drill with a #76 drill. Bend .020" music wire according to the outline.

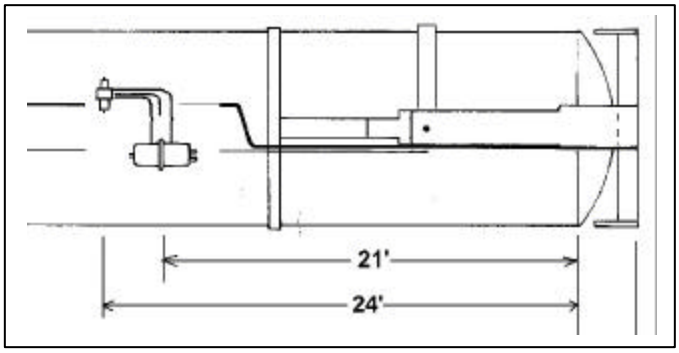


9 With the railings setting in place. drill a #60 or #61 hole at the corners and apply an Athearn Stanchion at each corner. Adjust the height of the assembly and apply ACC cement by transferring minute amounts of cement to the places where the tank is penetrated and at the stanchion-wire connections.



10 Add the tank detailing parts (7,8,9 & 10) as shown. The 80010 has an additional Double Drain Box (10) on top adjacent to the one pictured.

11 Install the Brake Valve and the Brake Reservoir at the bottom center of the tank as shown on the tank layout diagram.



PAINTING

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 paining 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.