

CONCEPT MODELS

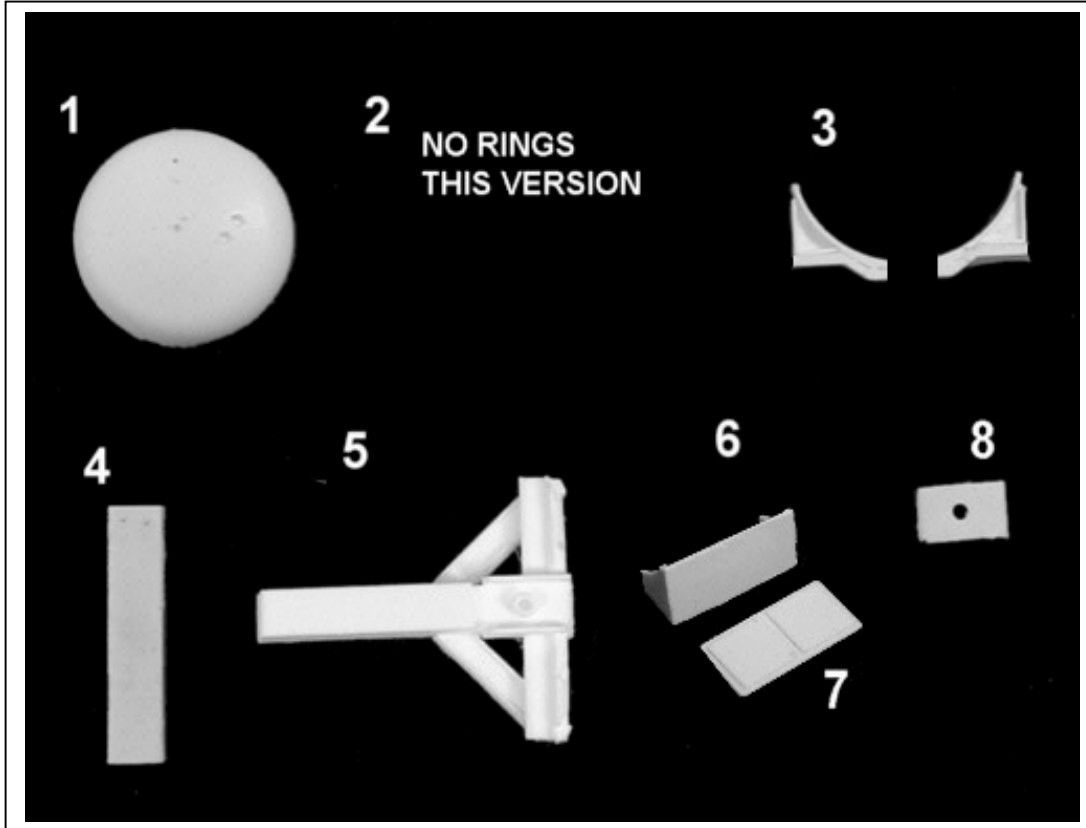
Web Address: <http://www.con-sys.com>
Email: concept_models@con-sys.com

8331 Sheep Ranch Rd.
Mountain Ranch, CA 95246



**INSTRUCTIONS FOR PRODUCT
UTLX 80078-79 CRYOGENIC TANK CAR**

PARTS UTLX 80078-79



Item	PART NO.	DESCRIPTION	QTY
1	1000	High Pressure Ends (Pr)	1
2			
3	1039	Tank Saddle	2
4	1080	End Sill Deck (Narrow)	2
5	1047	End Sill	2
6	1006	Control Box	2
7	1007	Control Box Face	2
8	1008	Coupler Cover (CM)	2
9	1074	Hatch	1
10	1058	Vents	2

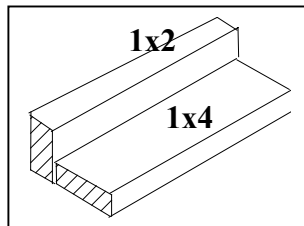
PART NO.	GENERIC PARTS	QTY
1014	3/16" x 2-56 screws	2
1018	Brake Valve	1
	Brake Reservoir w/brkt (CM)	1
1019	Brake Cylinder	1
1048	Brake Mount	1
1041	Brake Mech.	1
1010	Brake Wheel	1
1079	PVC Tank Tube – 48 s.f.	1
1049	Placard Holder	4
1011	Pin, Small	1
	Decals	1
	Instructions	1

Tools

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

Drills: #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.

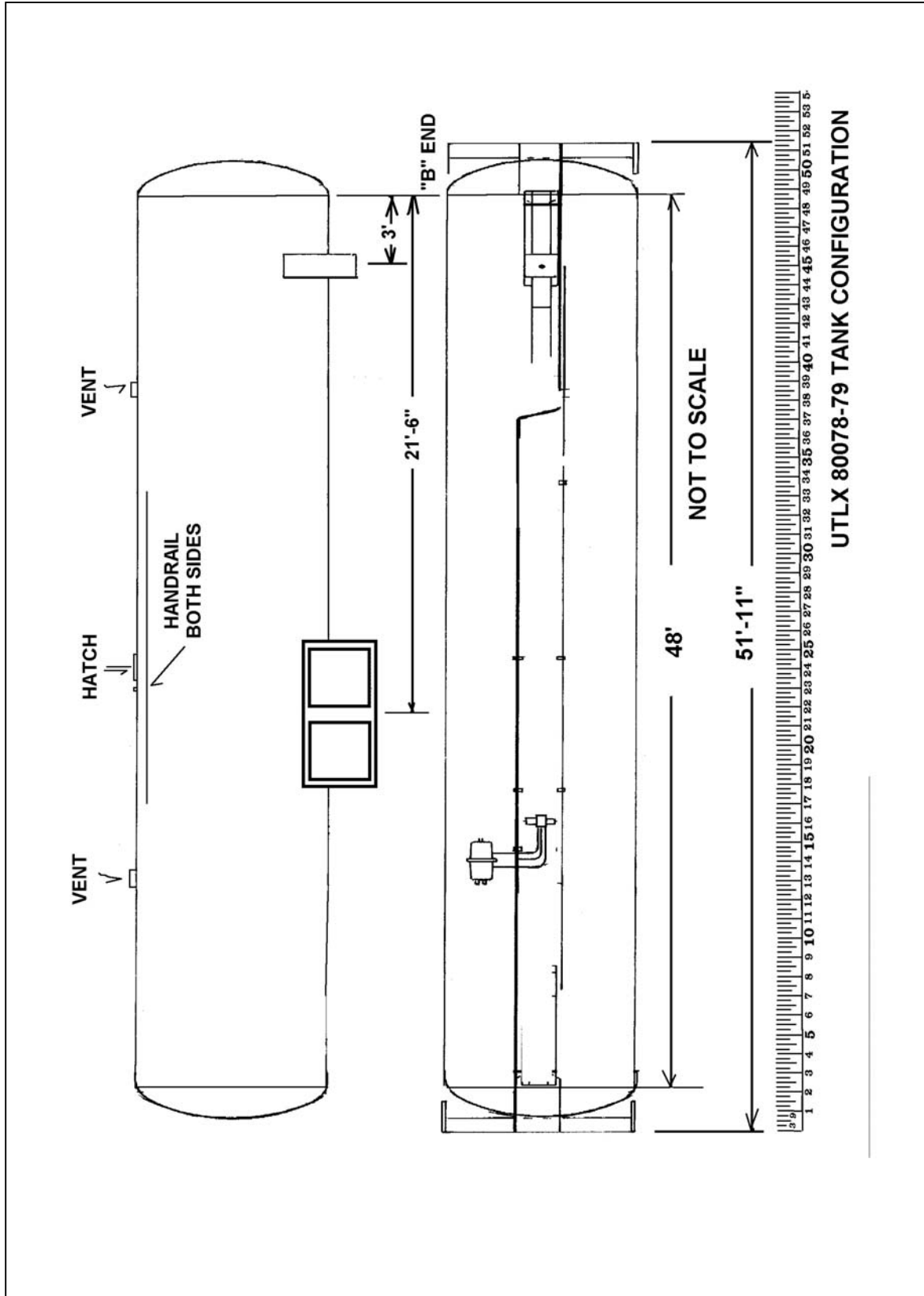
Instructions

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.

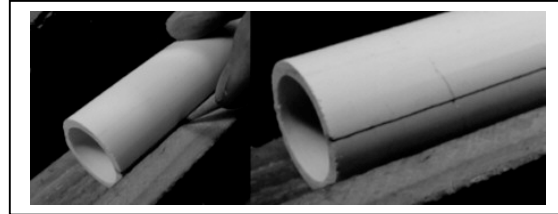
PREPARATION Wash the parts before assembling with a dish washing detergent such as “Dawn”. Rub lightly with a soft sponge.



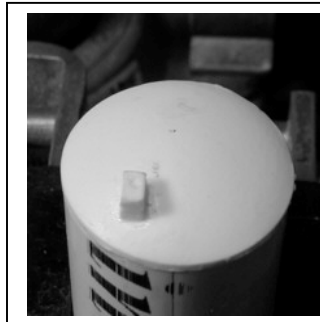
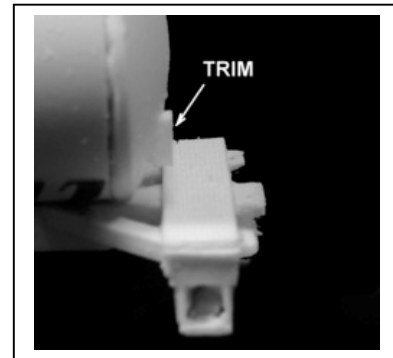
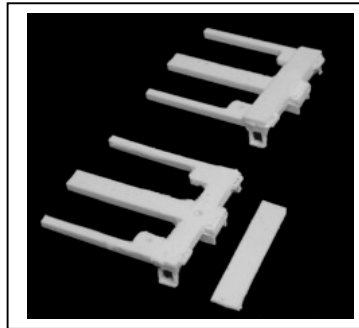
1 Use a 45 degree centering tool to make opposite sides of the tube end.



2 Draw longitudinal lines for top and bottom center. Use the preceding diagram to mark truck locations (on bottom).



3 Add the decking to the end sills, the tank ends. Trim back the brake mount as shown. Add the tank ends to the tank tube. Note the position of the brake mechanism mount for the "B" end. Trim off the mount for the "A" end. File the ends to match the tank tube. A moto-tool set up for rotary filing works well.



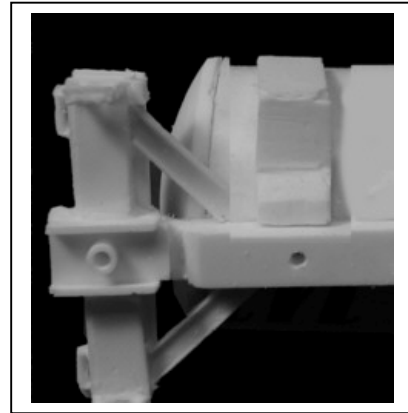
4 Position the sill so that the inside edge of the sill is about even with the end of the tank. Mark the position of the truck center. Trim the tail of the part and bevel the end. Cut and bevel the other end sill assembly. Attach the first end sill as shown.



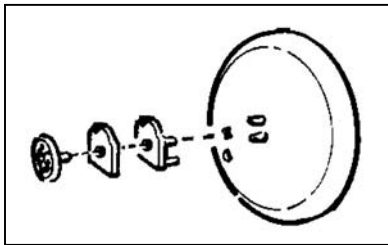
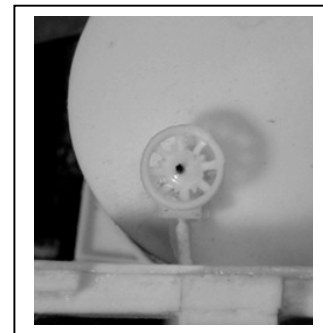
5 Attach the other end sill making sure that the ends are in parallel alignment.



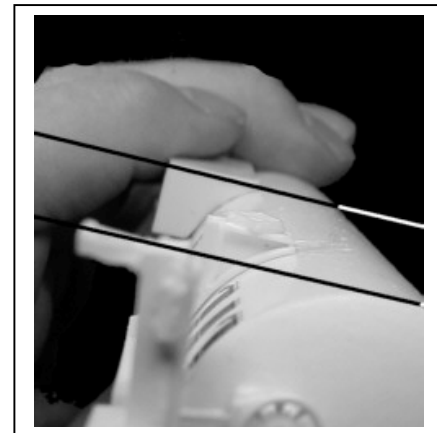
6 Cut the tank saddles in half and cement the saddle halves to the bottom of the tank and center sill. A small section the width of the sill is removed. The sides of the saddles should be perpendicular to the ground.



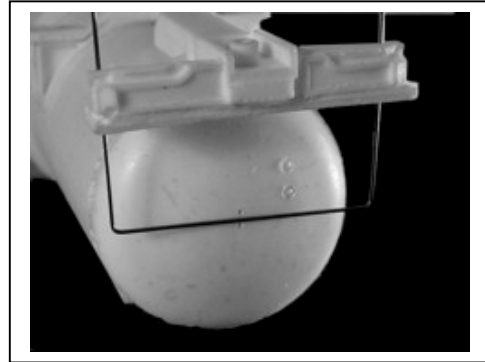
8 Install the brake mechanism mount by cutting off the bottom pin and drilling a hole for the top pin. Cement in place. Cement the Ajax brake mechanism to the mount as shown. Install the brake wheel with a small pin. Install the rest of the brake components per diagram.



9 Install the piping control box on the side of the tank. Make sure the structure is parallel to the tank saddles for best appearance. (See lines in photo.) Install the faceplate once the box structure is cemented in place.



10 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).



11 Install the safety railings which run from sill to sill on the sides. I use .020" steel music wire for the railings and Athearn stanchions for the supports. (Your local hobby shop will have to supply these.) Placards are mounted to the end sills by drilling a hole up through the deck. Trim the tail off of two of them and glue to the tank saddle as shown.



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. Two coats of white with plenty of drying time in between are recommended.
- 2) 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.
- 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) When completely dry, top coat the decals with Testor's Dullcote for best results.

