

# CONCEPT MODELS

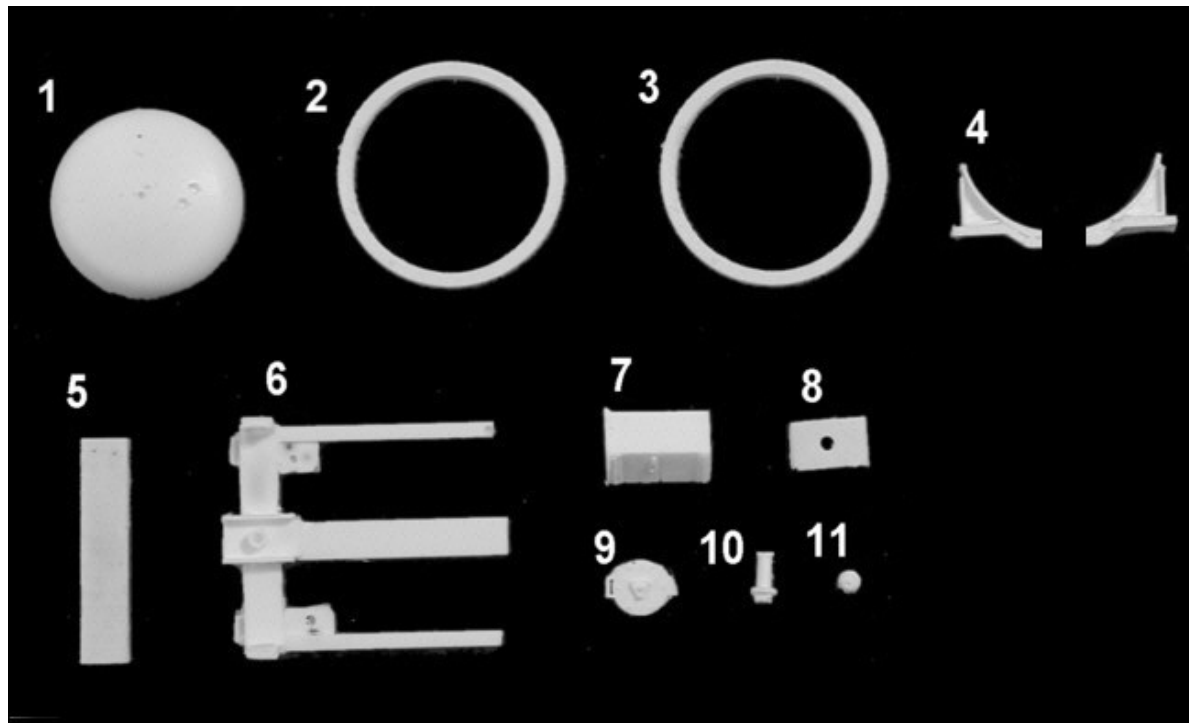
Web Address: <http://www.con-sys.com>  
Email: [concept\\_models@con-sys.com](mailto:concept_models@con-sys.com)

8331 Sheep Ranch Rd.  
Mountain Ranch, CA 95246



**UTLX 80006,80020 CRYOGENIC TANK  
CAR KIT INSTRUCTIONS**

## PARTS – UTLX 80006,80021 TANK

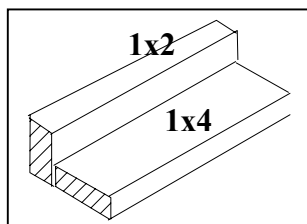


Item No.	DESCRIPTION	QTY.
1	Hi Press Ends (pr)	1
2	Large Ring – saddle (.2)	2
3	Small Ring (Center) (.15)	2
4	Tank Saddle Segments	4
5	End Deck	2
6	End Sill	2
7	Piping Control Box	2
8	Coupler Cover	2
9	Hatch Cover	2
10	Drain Connection	1
11	Vent	2

STANDARD PARTS	QTY.
s.f. = scale feet	
3/16" x 2-56 screws	2
Brake Valve	1
Brake Reservoir & Mount	1
Brake Mount	1
Brake Mech.	1
Brake Wheel	1
PVC Tank Tube – 72'-9" ( s.f.)	1
Placard Holders	4
Placard Holder Mounts	2
Decals	1
Instructions	1

## Tools

All basic model workers tools – files, motor-tool with fine burrs, hobby knife, 2-56 tap drill and tap, HO scale rule, etc. Wood blocks for holding parts square, metal square, etc.



A gluing fixture is a great aid to assembly. It helps hold parts square while gluing and aids in drawing the longitudinal lines on the tank tube.

## Instructions

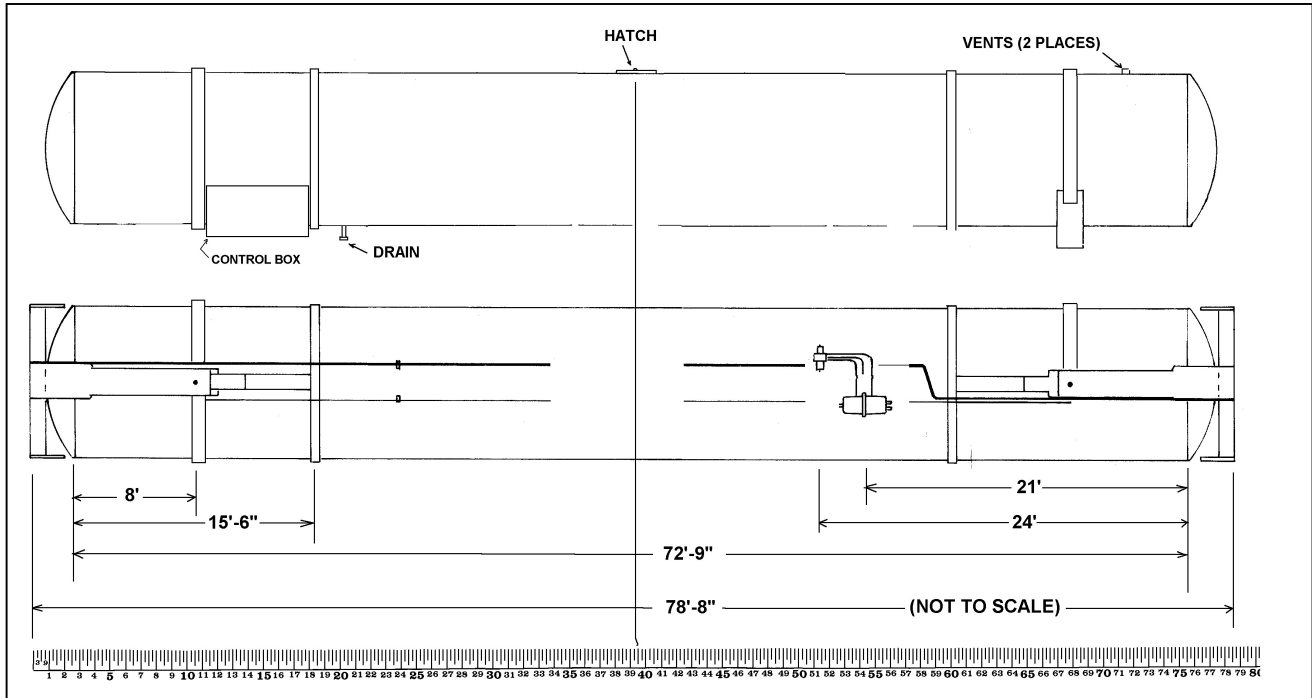
**NOTE:** This kit consists of resin castings and must be assembled with an ACC cement (not provided) – both the thicker types as well as the thin. Solvent cements will **NOT** bond the parts together! Resin parts are more fragile than common styrene plastic used in injection molded models. Use reasonable 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

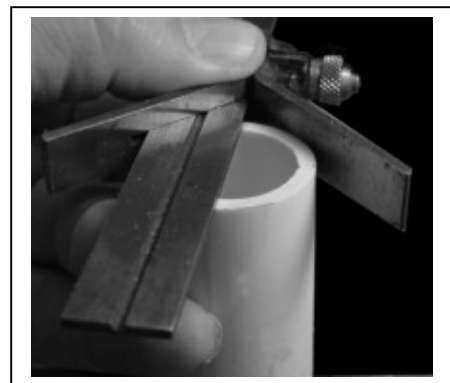
ACC cements allow the modeler to work very quickly. A general rule is to use the thin cements to glue long joints taking advantage of capillary action that makes the cement run the length of the seam. The thicker cement is suited to applying large area parts to each other. An accelerator can be applied 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.

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

# ASSEMBLY



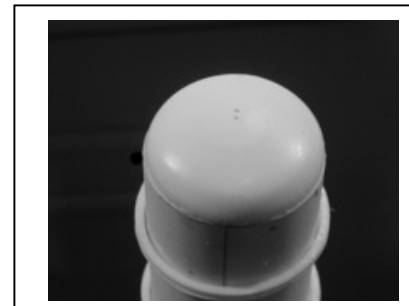
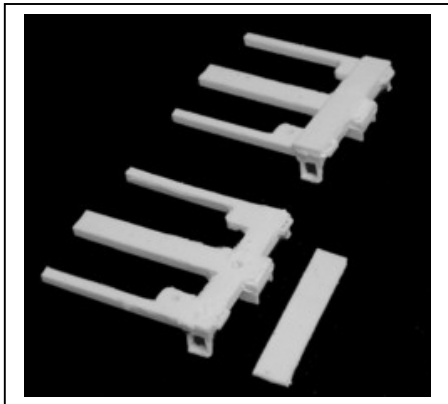
**1** Mark the end of the tank tube and extend to the sides of the tube and draw two lines 180 degrees apart on the sides of the tank tube. Mark: TOP, BOTTOM, A-END, B-END. Use the above diagram to measure off the ring locations at the top and the truck positions at the bottom.



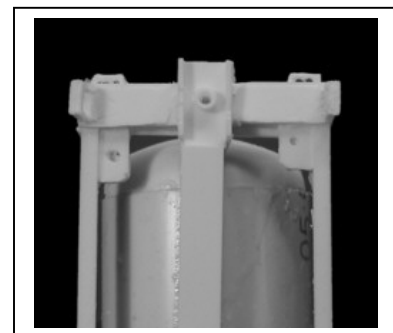
**2** Measure off the ring distances from the end of the tube. The rings are usually too large to account for differences in shrinkage and materials supplied. Break the sharp edges of the outside ring diameter with a file. Cut the ring as shown and extract a very small piece to make the ring fit snugly. Apply a small drop of cement at the top and clamp the ring to the tube. After the cement has set, repeat in small increments around the ring until the entire ring is secured.



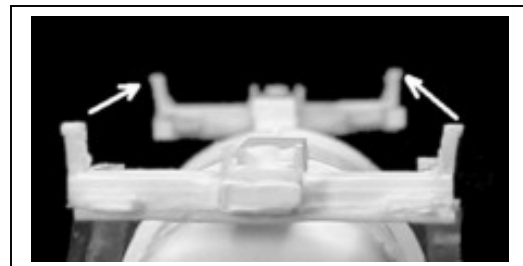
**3** Install the Hi Pressure Ends (1). The one with the indentations belongs on the B-End of the tank tube.



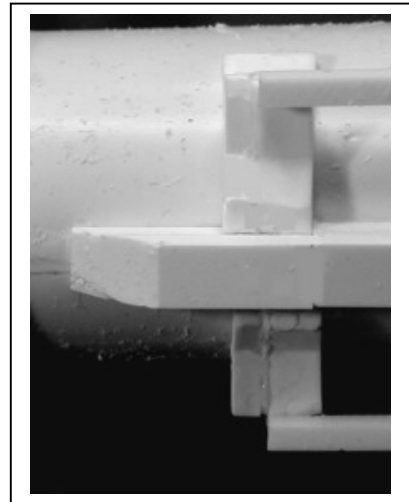
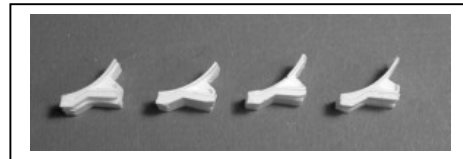
**4** Cement the decking to the end sills as illustrated.



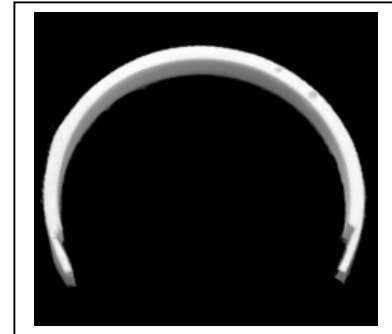
**5** Cement the end sills to the tank as shown. The trailing edge of the deck should be in a line with the car end. The ends should line up parallel as shown. Remove the trailing segments of the end sill. They are not used on this car. (Even though shown in some of the common photos throughout.)



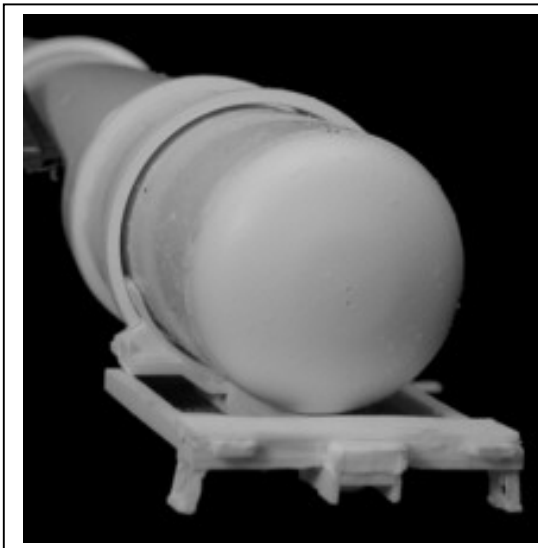
6 The four tank saddles should be prepared as shown. Place adjacent to the truck mounting position which you should have marked in earlier steps.



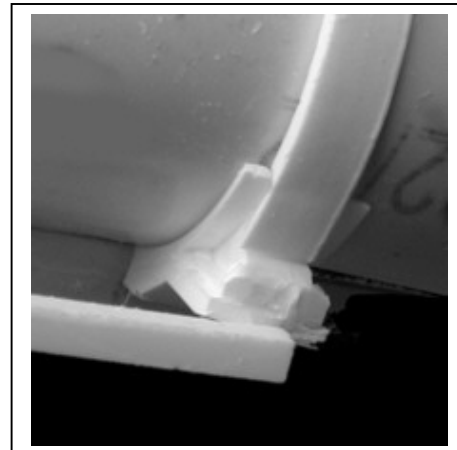
7 The large Ring (2) must be cut to fit. Each end overlaps the tank bolster. The finished part is shown to the right.



8 Check for fit. This needs to be trimmed if it looks like this. This takes time but it makes for a correct configuration.



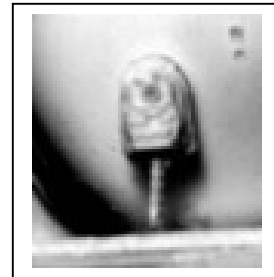
9 Finished ring should appear as below. Cement in place starting on one side.



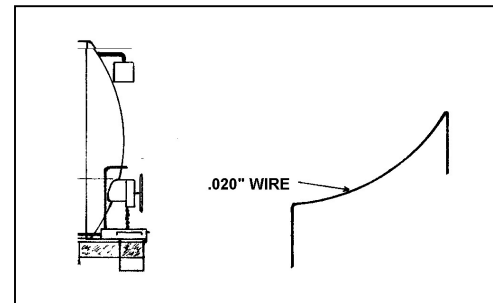
**10** Place the Piping Box (7) as shown.



**11** Install the brake mechanism mount and Ajax brake mechanism as shown. Install the brake wheel with a small pin. Install the rest of the brake components per diagram.



**12** Make a curved guard railing from .020" steel and install as shown in the End Sill (5). It will be necessary to drill with a .020" drill (#76).. Cut away the end sill braces leading from the sill to the tank bolster. They are not used on this model. Install a guard rail the entire length of the car on each side. The photo below shows the location of supports best simulated with Athearn Stanchions.



## PAINING

- . Use a lacquer based primer such as Floquil then 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 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

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. The decals provided are a very thin 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.
- 4) Top coat the decals with Testor's Dullcote for best results.

