

# CONCEPT MODELS

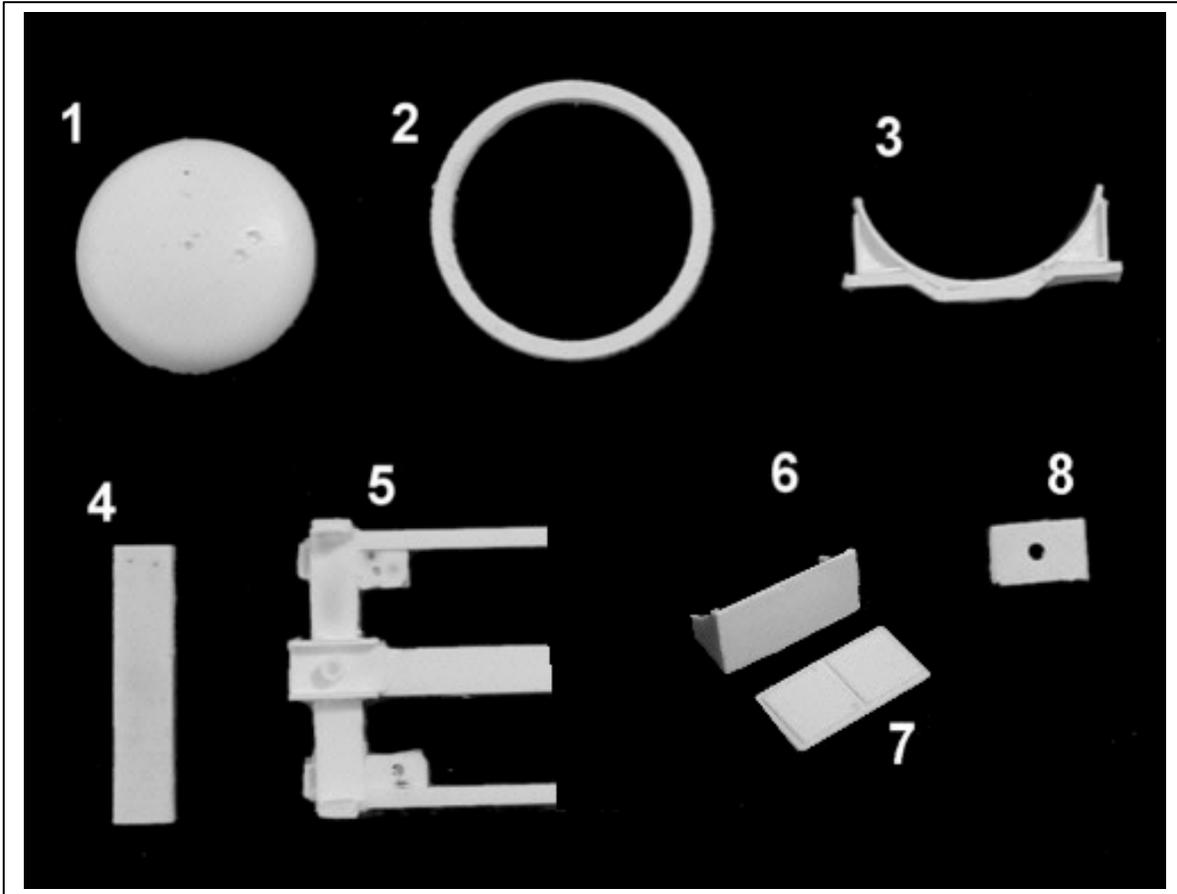
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**INSTRUCTIONS FOR PRODUCT  
APRX 6009 CRYOGENIC TANK CAR**

**PARTS APRX 6009**



| Item No. | PART NO.    | DESCRIPTION              | QTY. |
|----------|-------------|--------------------------|------|
|          | <b>8500</b> |                          |      |
| 1        | 1000        | Med. Pressure Ends (Pr)  | 1    |
| 2        | 1025        | Rings, Reinforcing .100" | 2    |
| 3        | 1003        | Tank Saddle Halves       | 4    |
| 4        | 1004        | End Sill Deck            | 2    |
| 5        | 8500-5      | End Sill (.100 Sill)     | 2    |
| 6        | 1006        | Control Box              | 2    |
| 7        | 1007        | Control Box Face         | 2    |
| 8        | 1008        | Coupler Cover (CM)       | 2    |
|          |             |                          |      |

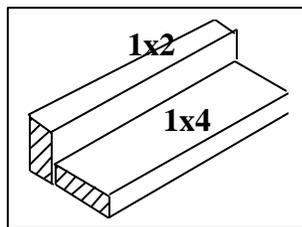
| No.  | GENERIC PARTS       | QTY. |
|------|---------------------|------|
| 1014 | 3/16" x 2-56 screws | 2    |
| 1018 | Brake Valve         | 1    |
| 1020 | Brake Reservoir     | 1    |
| 1019 | Brake Cylinder      | 1    |
| 1048 | Brake Mech. Mount   | 1    |
| 1041 | Brake Whl. Mech.    | 1    |
| 1010 | Brake Wheel         | 1    |
| 1079 | Tank Tube – 48 s.f. | 1    |
| 1049 | Placard Holders     | 4    |
| 1011 | Small Pin           | 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

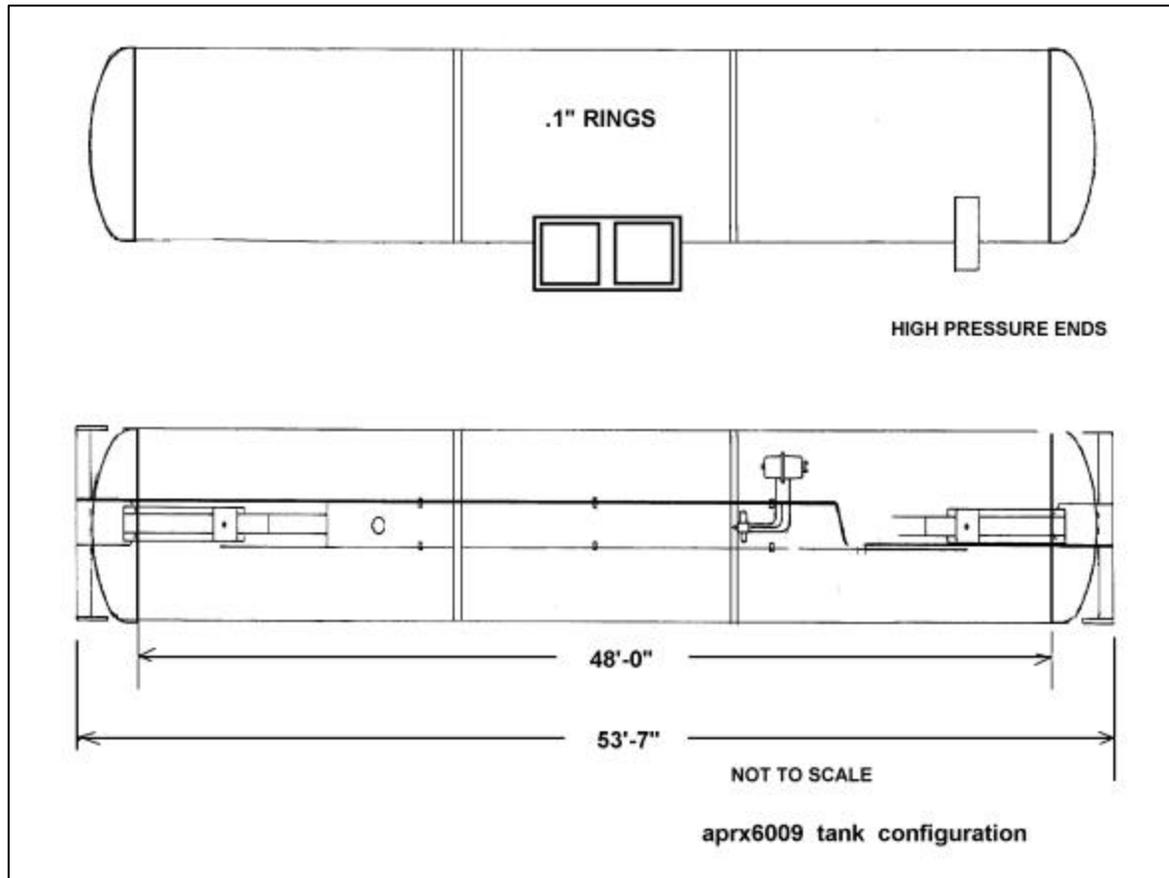
**NOTE:** This kit consists of resin castings and must be assembled with an ACC cement (not provided) – both the thicker types as well as the thin. Solvent cements will **NOT** bond the parts together! They can dissolve them. Resin parts are more fragile than common styrene plastic used in injection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

# ASSEMBLY

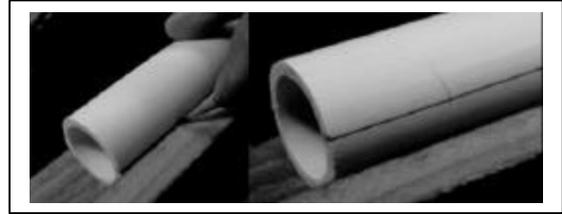


**1** Use a 45 degree centering tool to make opposite sides of the tube end. Draw longitudinal lines for top and bottom center. Use the above diagram to mark ring locations (on top) and truck locations (on bottom).

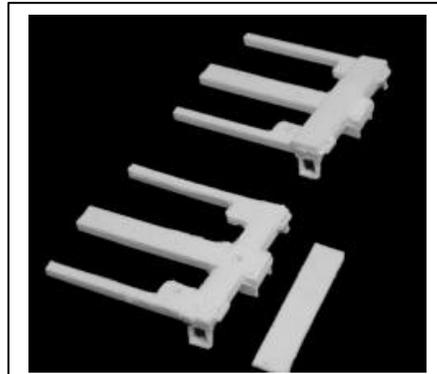




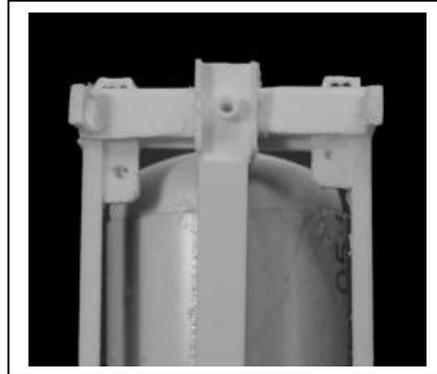
**2** Refer to the layout diagram to position the rings. Make sure you apply the rings before adding any other parts. Use ACC cement to hold the rings. Apply a small dot at the top of the ring and allow cement to set or use an accelerator to speed up the process. After you get the rings located, make sure they are straight. Cut at the bottom to get a tight fit. Fill in the gap between the ring and the tank. The rings are slightly large to compensate for shrinkage of the casting and variations in the tank tube.



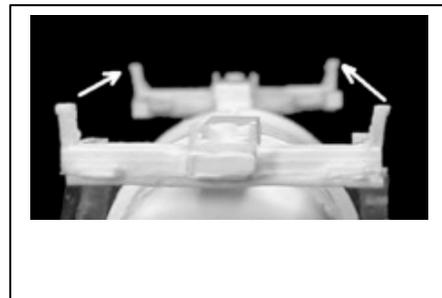
**4** Add the decking to the end sills



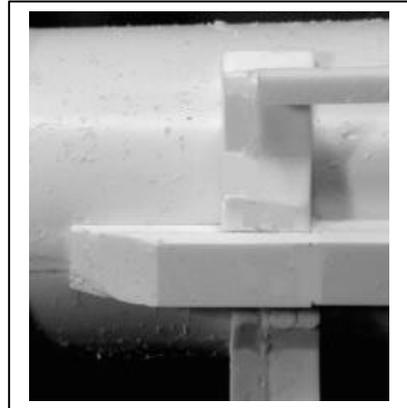
**5** Position the sill so that the inside edge of the sill is about even with the end of the tank. Mark the position of the truck center. Trim the tail of the part if it conflicts with the reinforcing ring and bevel the end. Cut and bevel the other end sill assembly. Attach the first end sill as shown.



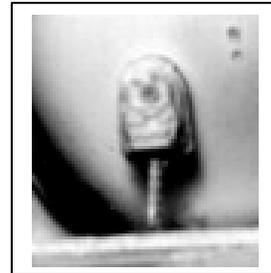
**6** Attach the other end sill making sure that the ends are in parallel alignment.



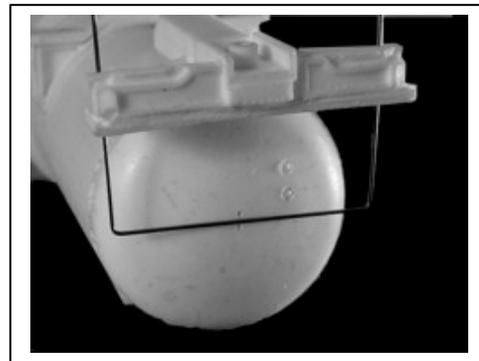
**7** Cement the saddle halves together and cut in half removing a section to allow for the center sill. Trim the saddle halves so that the ends are vertical. Cement the saddle halves to the bottom of the tank and center sill. The side stringers, used on other tank car models may be removed. (For club handling, I'm inclined to leave them on and cement to the saddles.)



**8** 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.



**9** 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).



**10** 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 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.

