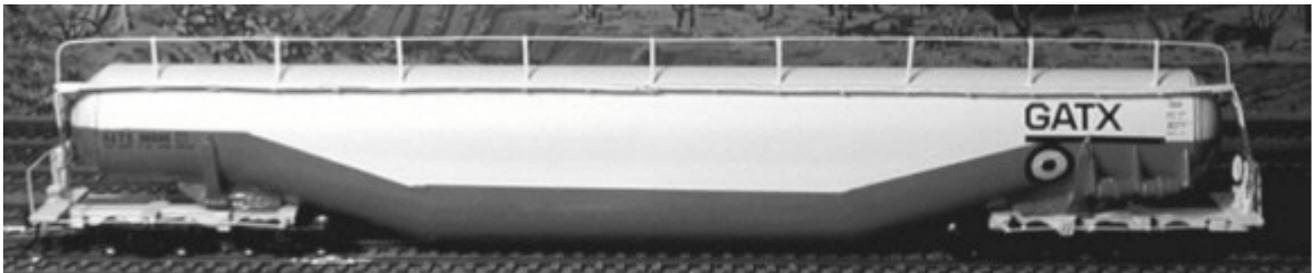


# CONCEPT MODELS

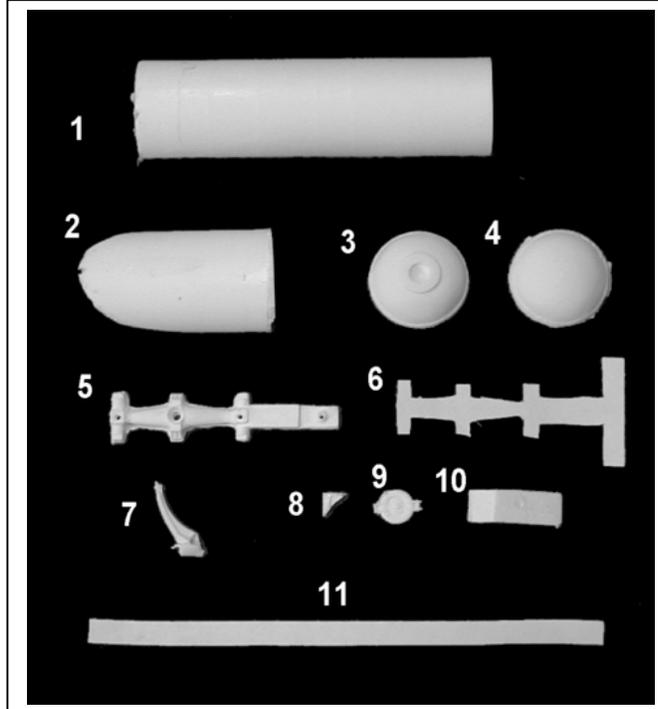
Web Address: <http://www.con-sys.com>  
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8810 El Toro Way  
Stockton, CA 95210



**INSTRUCTIONS FOR PRODUCT  
60,000 GALLON TANK CAR**

**PARTS –**  
**GATX/UTLX**

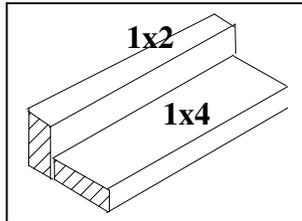


Item No.	PART NO.	DESCRIPTION	QTY.
1a	8031-1	Center Bottom Tank – GATX & LePetomane 33 s.f.	1
1b	8032-1	Center Bottom Tank – UTLX 30 s.f.	
2	8031-2	Ends Bottom Tank	2
3	8031-3	Port End	1
4	8031-4	Plain End	1
5	8031-5	Truck Bolster Bottom	2
6	8031-6	Truck Bolster Top	2
7	8031-7	Tank Brace	4
8	8031-8	Brake Res. Supports Assy.	1
9	8031-9	Hatch Cover	4
10	8031-10	Tank Bolster	2
11a	8031-11	Walkway sections GATX	4
11b	8032-11	Walkway sections UTLX	2
12a	8031-12	Main Tank Tube GATX & LePetomane – 87 s.f.	
12b	8032-12	Main Tank Tube UTLX - 82 s.f.	

GENERIC PARTS	QT
Coupler Pocket Covers	2
1/8" x 2-56 screws	2
3/8" x 2-56 screws	2
Brake Reservoirs	2
Brake Valve	1
Brake Valve Mount	1
Brake Stand	1
Brake Wheel	1
Small Pin	1
Decals – set	1
Instructions	1

## Tools

All basic model workers tools – files, motor-tool with fine burrs, hobby knife, 1/8” drill, Wood blocks for holding parts square, metal square, etc. Bondo and Squadron green putty is desirable for filler and contouring. You may also need dressmaker pins for the catwalks and Athearn long stanchions for the top walkway handrail.



A gluing fixture is a great aid to assembly. It helps hold parts square while gluing. This thing also works well as a guide for drawing lines along long round objects like tanks 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! 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.

**PAINTING** Wash the parts before assembling with a dish washing detergent such as “Dawn”. Rub lightly with a soft sponge. Use a lacquer based primer such as floquil.

## ASSEMBLY

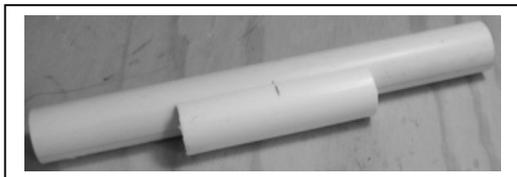
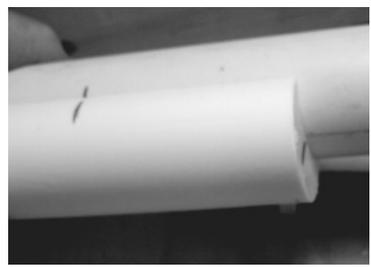
**1** Clean the entire Main Tank Tube with lacquer thinner or acetone. Work fast since the chemicals can soften the PVC if left on for a long time. The idea is to remove the printed markings and take off the gloss surface. Draw a line the entire length of the tube using a straight edge as shown.



**2** Mark the center of the Center Bottom Tank (1) by drawing a line as shown.



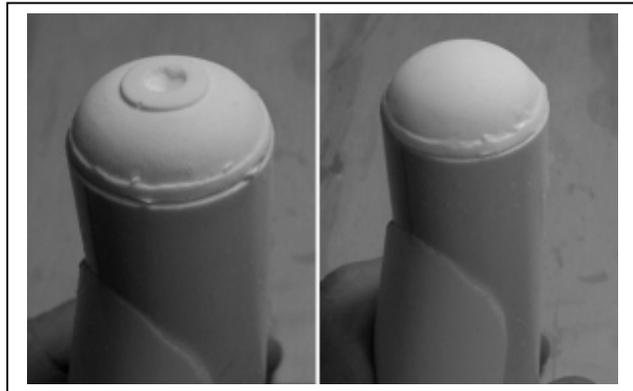
**3** Find the center of both the Main Tank Tube (12) and the Center Bottom Tank (1) then glue in position as shown.



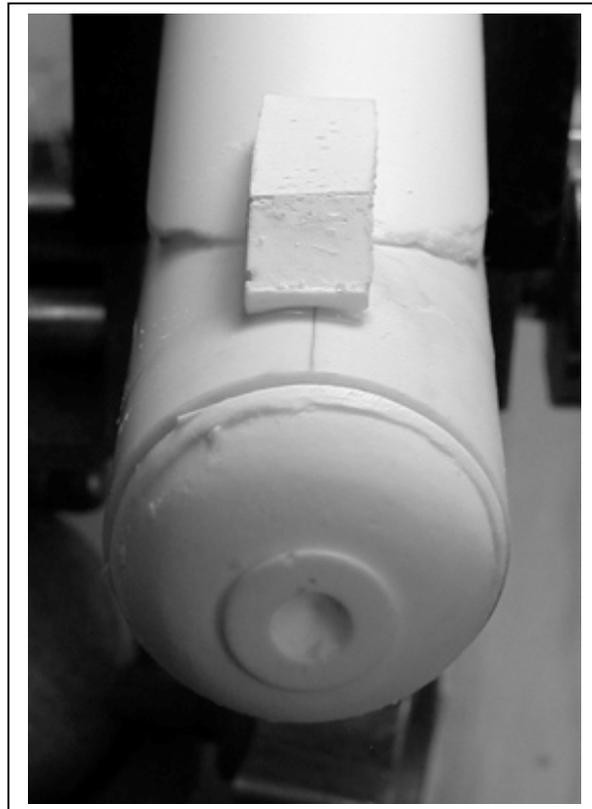
**4** Glue the Ends for the Bottom Tank (2) to the Bottom Tank (1) and the Main Tank Tube (12) as shown.



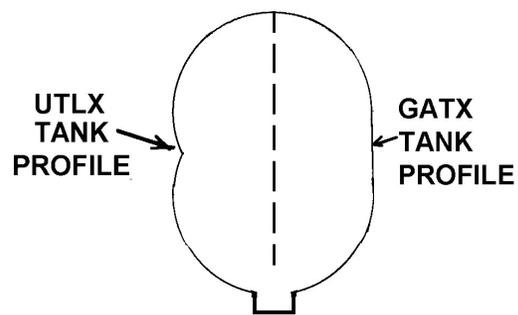
**5** Glue the Port End (3) and the Plain End (4) to the Main Tank Tube (12) as shown.



**6** Glue the Tank Bolsters (1) to each end of the bottom tank as shown. Make sure that both ends are parallel and centered.

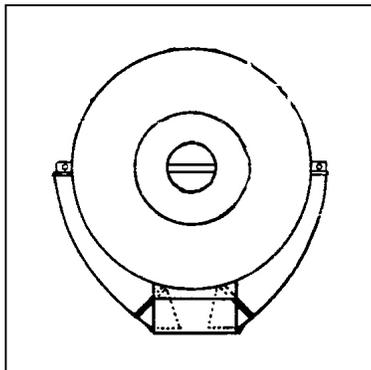
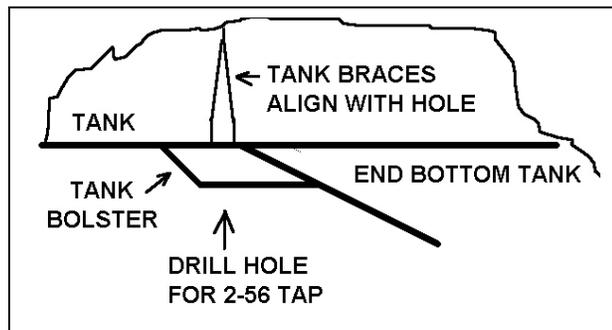


**7** Even up the joint where the Center Bottom Tank (1) and the Ends (2) of the bottom tank come together. A motor tool works well for this. Next use Bondo or Squadron's putty to fill in the tank. The tank seam for the GATX car is shallow. The seam on the UTLX car is very deep indicating tubular construction. After the filler has dried hard, sand to a smooth finish.



**8** Drill a hole for tapping for a 2-56 screw as shown. The Tank Braces are installed in line with that hole which is the junction point for the truck bolsters. Make sure to fill any gaps where the tank and braces join with ACC cement.

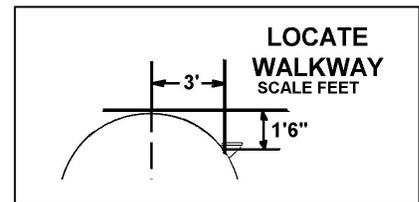
A thin wire (not supplied) should be installed between to the two braces to give the appearance of holding the tank to the braces.



## WALKWAYS

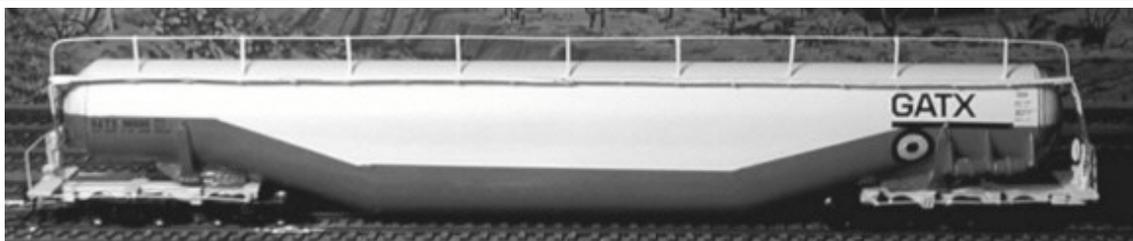
The materials provided with this kit are made within the scope of the casting process. It is possible for more detailed walkways by purchasing etched metal parts. Plano makes a number of components that can be applied to add additional details. The following instructions are what I have used to make a durable model that withstands operation and club handling.

**1** Locate the position for the walkway components as shown and draw a line the length of the tank. The Walkways are the same as found on freight cars. Trim to fit as straight lengths. Note: The GATX car has walkways on both sides of the tank while UTLX has only one.



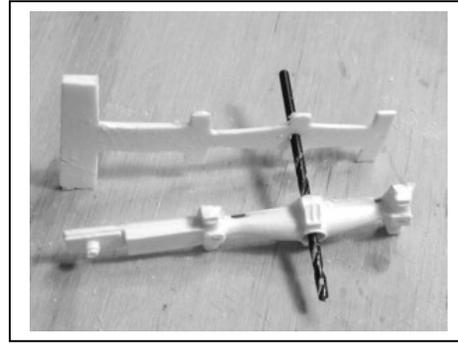
**2** Space pins (not supplied) at even intervals to support the walkway. Usually a #76 hole is good for a tight fit. There should be twice as many support pins than stanchions. Make sure the pins will be parallel to the ground when the car is upright. The pins need not be trimmed during this step. Examine the photos below to determine approximate spacing for the pins. Apply the walkway materials to the pins by applying ACC from the underside of the walkway. Taping the walkway in place may be helpful in getting the walkway in the correct position. After the glue has set cut off the excess length of the pins. Finish the ends of the pins with a sanding disc in a motor tool to get a smooth finish.

**3** Drill holes for stanchions (not supplied) spaced as shown in the photos. Set the stanchions in place with ACC cement. Be careful to get all stanchions at the same height. The handrail should swing down on the end to meet the ladders.



## BOLSTER ASSEMBLY

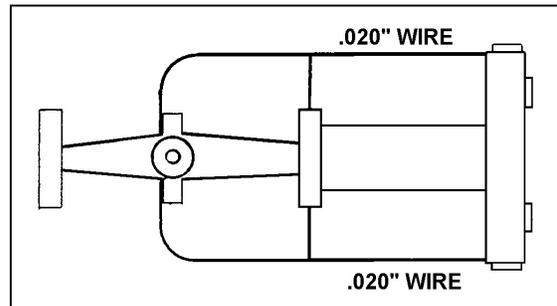
**1** Use a 2-56 clear drill to line up the bolster halves as shown and glue. Use clamps until the glue has set.



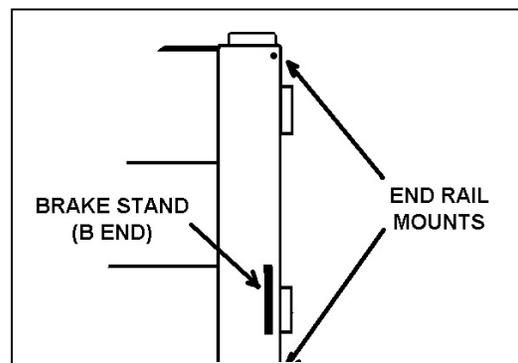
**2** The bolster should appear like this.



**3** Add guard rails to each bolster as shown. A stanchion works well at the center junction. The guard rails should be secured to the bottom of the end walkway.

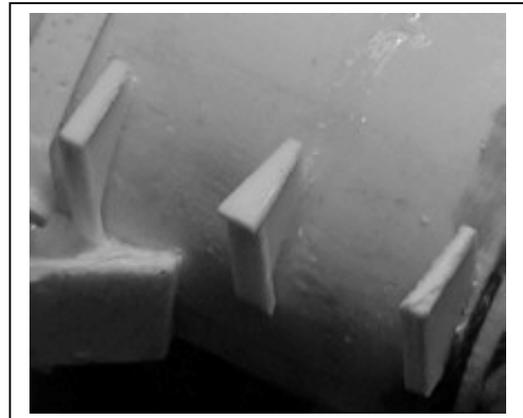
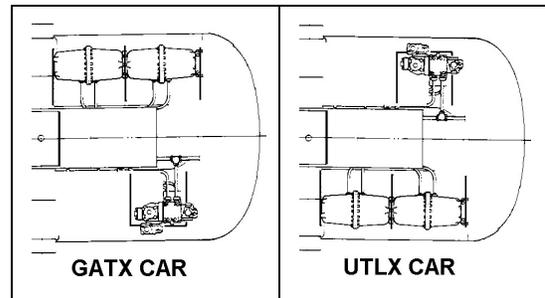
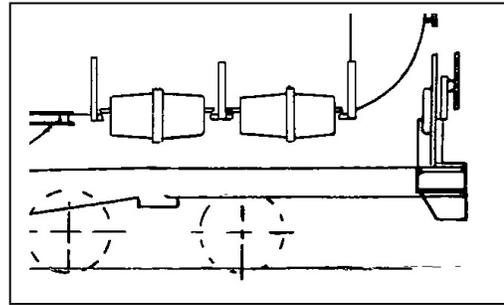


**4** Attach hand grabs and handrails as shown. Short ladders are located under the edge near the side hand grabs.

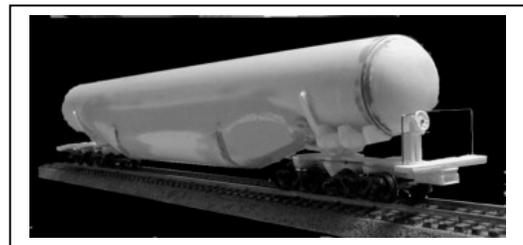


## Details

**1** Attach the brake reservoir bracket to the tank. The bracket should be installed even with the bottom of the tank. The long piece goes on the side and will be trimmed away after gluing. After installing the bracket, cut away the side to allow the reservoirs to be slid into place on the individual brackets. Cement the reservoirs to the brackets. The drawings illustrate both the GATX car and the UTLX car. The brake valve and reservoirs have reversed positions from side to side.



**2** Attach the bolster to the car and apply your choice in modern roller bearing trucks. Test run the car. Disassemble for painting.



## PAINTING

- 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.
- 2) If you are doing either the GATX or LePetomane car, refer to the photos to show the demarcations for the colors. The bottom section is red. SOO Line red is a gloss and aids decaling. It is recommended that the entire car be given a coat of white first. This keeps the red nice and bright.

## DECALING

Overcoat entire car with Testor's Glosscoat prior to decaling. The decals provided are a very thin film decal film. Success with these decals depends on following these instructions.

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.

- 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 and separate from the backing since the decal film is very thin and cannot be handled separated from the backing.
- 3) Slide the decal directly onto the wetted surface with a small brush. Position with the brush. Remove excess water with a tissue.
- 4) After decals have set and dried, apply Testor's Dullcote as a top coat for best results.