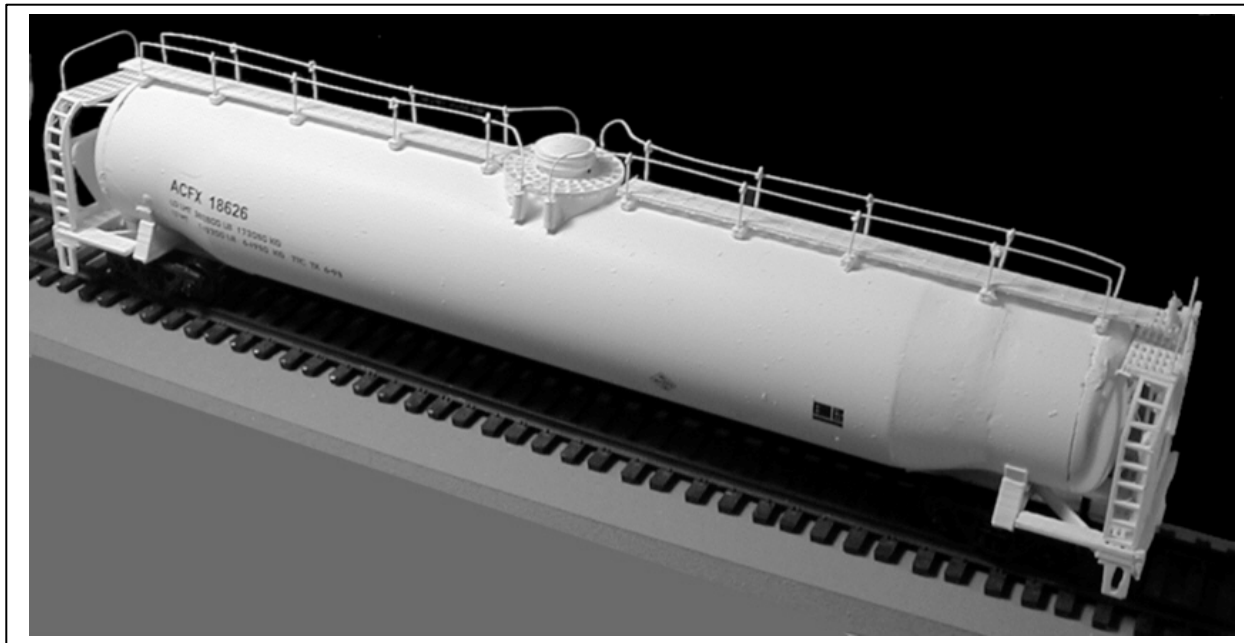


CONCEPT MODELS

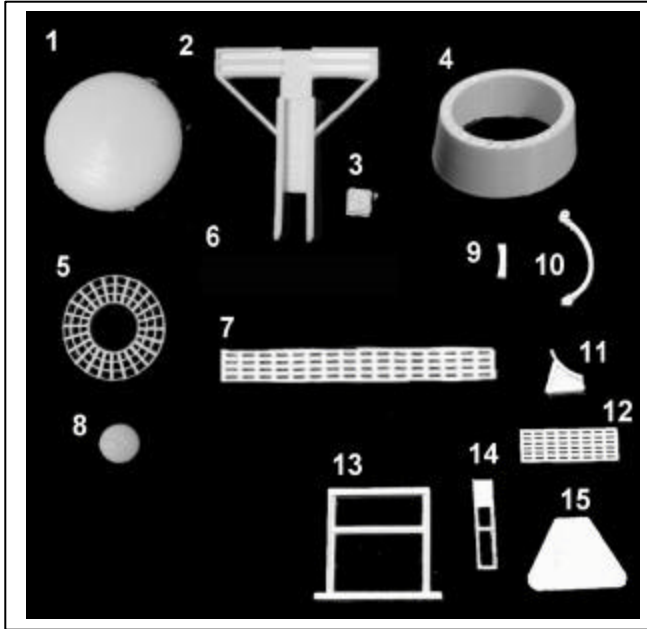
Web Address: <http://www.con-sys.com>
Email: concept_models@con-sys.com

8810 El Toro Way
Stockton, CA 95210



**INSTRUCTIONS FOR PRODUCT
ACFX18625 FISH BELLY TANK CARS**

ACFC 18626 Tank Car Parts



Item No.	Part No.	DESCRIPTION s.f.=scal feet	QTY.
1	1106	Med. Pressure Ends	2
2	8042-2	Truck Bolster & End	2
3	1119	Truck Bolster Insert	2
4	8042-4	Tank Transition	2
5	8042-5	Circular Deck Grill	1
6	8042-6	Now Part of item 2	2
7	8042-7	Top Deck Grill	2
8	8042-8	Dome	1
9	8042-9	Catwalk Supports	10
10	8042-10	Circular Catwalk Supports	2
11	8042-11	Tank Supports	4
12	8042-12	End Platform	2
13	8042-13	End Frame	2
14	8042-14	Brake Mount & Frame	1
15	8042-15	Shield	2
16	8042-16	Plackard Mount	2

Part No.	GENERIC PARTS	QTY.
	40' s.f. 1-1/2" PVC	1
	4'6" s.f. 1-1/4" PVC	2
1099	Brake Reservoir	1
1098	Brake Valve	1
1102	Brake Mech.	1
1103	Brake Wheel	1
1011	Small Pin	1
1111	Draft Gear Covers	2
1104	Placard Holders	2
1023	Long Pins	4
	Ladders	4
	Decals (set)	1
	Instructions	1

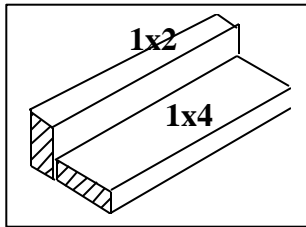
s.f = scale feet

Tools

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

Drills: 1/8", #76, #72, #68, #50 (2-56 tap drill), #65

Music Wire: .015 or .020" for railings.



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.

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. Use reasonable care in handling and do not apply any solvents. Work very carefully when positioning the parts for gluing. ACC cements adhere very quickly and permanently.

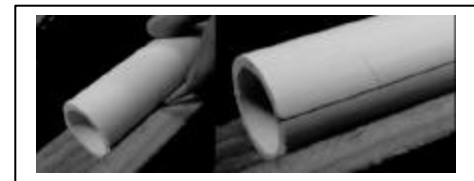
Gluing with ACC Cements – USE WITH CARE

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. 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.

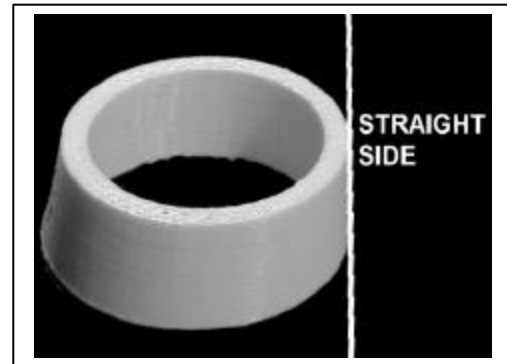
IF YOU WANT PAINT TO STICK - Wash the parts before assembling with a dish washing detergent such as "Dawn". Rub lightly with a soft sponge.

ASSEMBLY

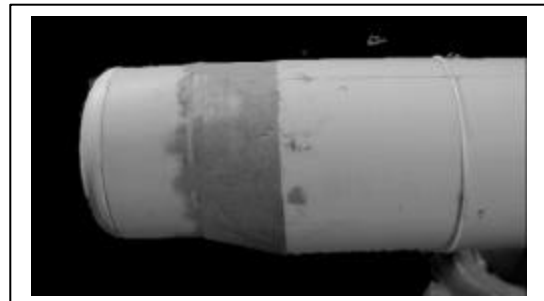
1 Mark the end of the tank tube and extend to the sides of the tube and draw two lines 180 degrees apart on the sides of the tank tube. Mark: TOP, BOTTOM, A-END, B-END.



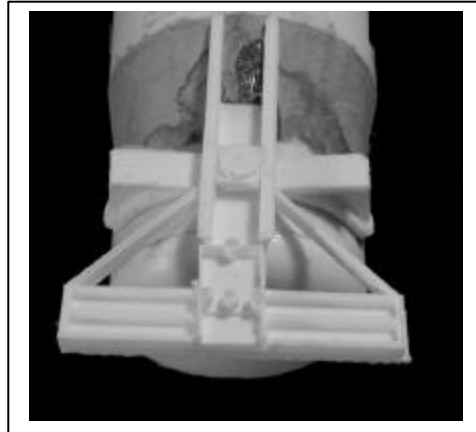
2 Cement the Tank Transition (4) to the main tank tube. Make sure both ends are aligned with the straight side at the top of the tank tube.



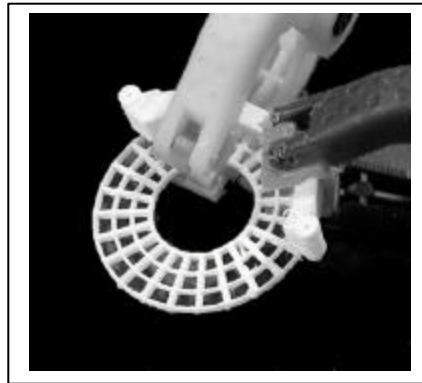
3 Apply the short section of tubing and smooth the transition with Squadron's Green Putty.



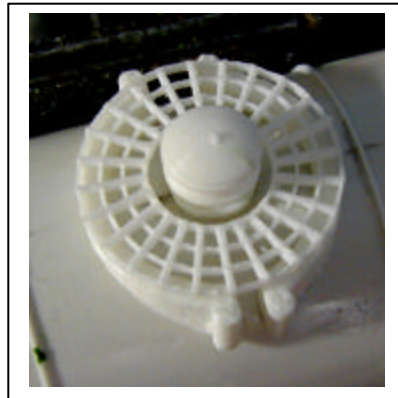
4 Cement the Truck Bolster (2) to the bottom of the tank tube assembly at the ends as shown. Add the Tank Supports(11) and the Truck Bolster Insert (3) as shown.



5 Cement the Circular Catwalk Supports (10) to adjacent sides of the Top Deck Grill (7).



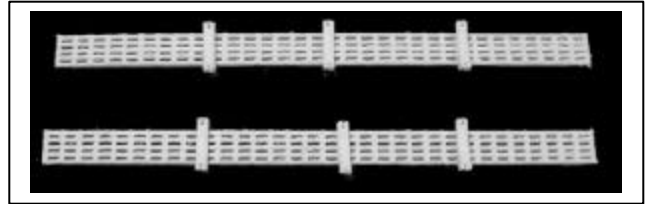
6 Mount the Circular Deck at the top center of the tank. Add the Dome (8) as shown.



7 Cement two of the Catwalk Supports (9) to each side of the Circular Deck Assembly; curved side down.



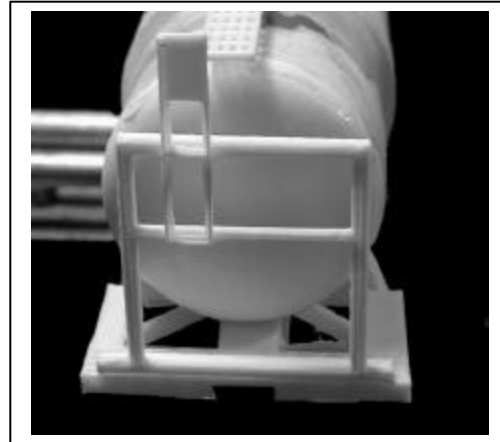
8 Cement the flat side of the Catwalk Supports to the bottom of each of the Top Deck Grills as shown.



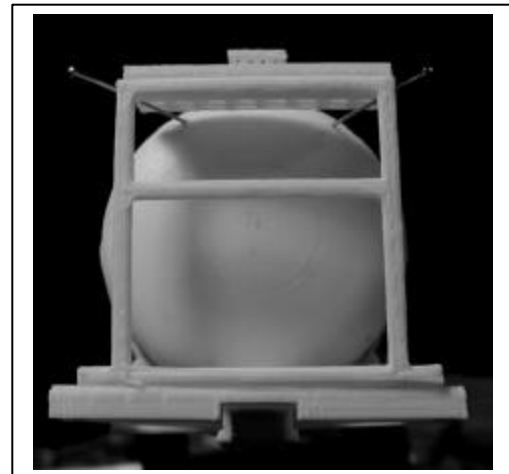
9 Cement THE two catwalks into position as shown.



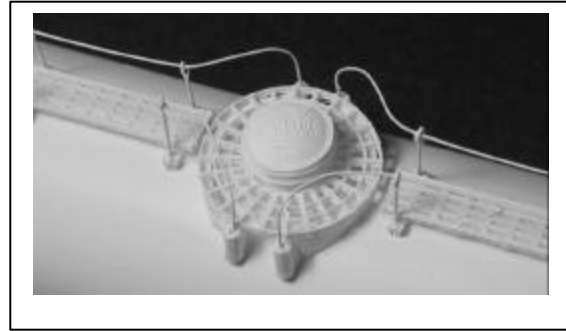
10 Add the End Frames by cementing to the end deck. Add the Brake Mechanism Mount to the B End of the car.



11 Drill two small holes and add the End Platform (12) to the End Frames. Support by adding the two pins as shown. Cut the head of the pins off after cementing in place.



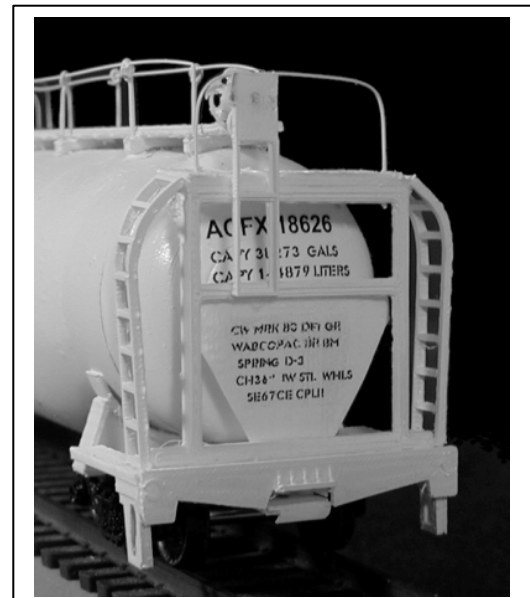
12 The next three photos show the handrail details using .015" music wire for the handrails. Make sure to drill into the tank body to anchor the stanchions. The holes should be slightly oversize to admit the cement. Use a pin to transfer cement to the "eyes" of the stanchions.



13 Add the ladders. Bend by applying heat. (Microwave in increments of 10 seconds or swipe your wife's curling iron.) Prototype photos shown one sharp bend just about the center of the ladder rather than the curved technique I used. My mistake.



14 Add the Shield to the inside of the End Frames by cementing to the End Frame and the Deck. Add brake details as shown. Add the Placard Mount to the side of the car at about 1/3 of the distance from the end and just below the tank centerline. After painting, add couplers of your choice.



PAINING

If you followed the instructions for cleaning the parts before assembly, you are ready to paint.

Now that Floquil has left the scene I'm buying Gloss White from ACE hardware's enamel - part of their rust proof line. A half pint goes a long way. I dilute it 50-50. I find that one coat will cover almost anything. Hard to cover items can be airbrushed over again after a few minutes to add paint depth. It also works to cover minor defects in one's workmanship but does not obliterate details.

After painting, 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

NOTE: The decals provided are a very thin film decal film. Success with these decals depends on following these instructions. 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 room temperature water which has had 1 drop of DAWN kitchen detergent. Do **NOT** leave the decal to soak in the water and slide off the backing..
- 3) Slide the decal directly off of the backing onto the wetted surface with a small brush or tweezers. Position with the brush. Remove excess water with a tissue.
- 4) A decal setting solution is recommended for best adhesion.
- 5) Top coat the decals with Testor's Dullcote for best results.