CONCEPT MODELS

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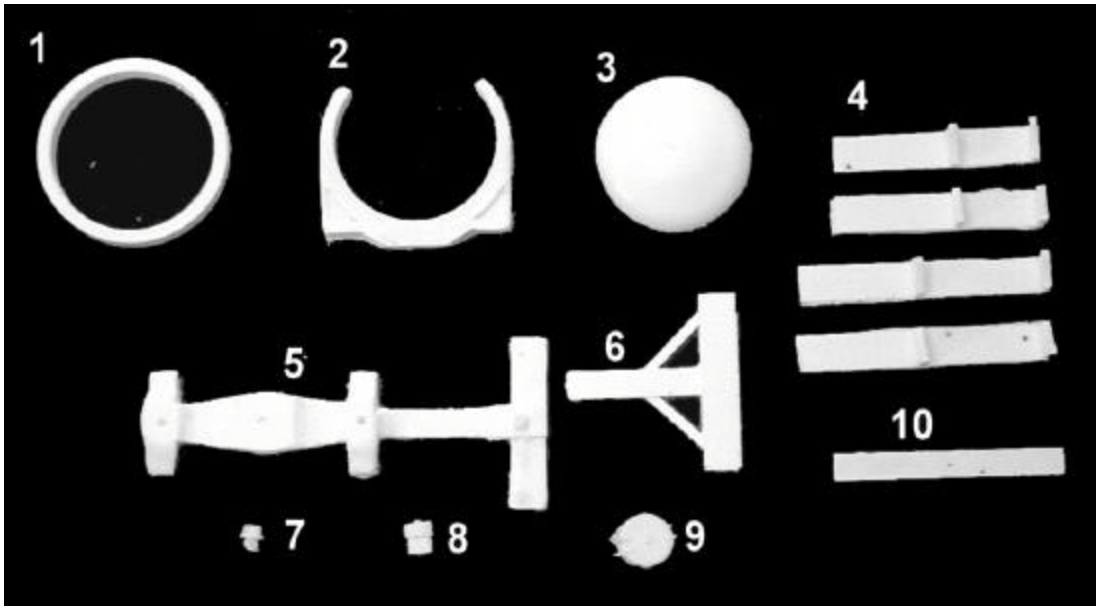
INSTRUCTIONS FOR PRODUCT
DUPX 12405 TANK CAR

05/19/18

PARTS – DUPX 12405 TANK CAR

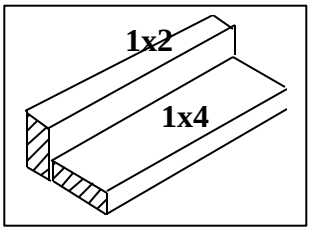


Item No.	Part No. 8034	DESCRIPTION	QTY.
1	8034-1	Reinforcing Ring	4
2	8034-2	Tank Saddle/Bolster	2
3	1000	Tank Pressure Ends (pr)	1
4	8034-4	Running Board (set)	1
5	8034-5	Truck Bolster – Bottom	2
6	8034-6	Truck Bolster – Top	2
7	1087	Safety Vent	2
8	1084	Top Valve Cover	1
9	8034-9	Dome/Housing	1
10	1088	Dome Platforms	2
11	8034-11	Long Tank Heater Coil	2
12	8034-12	Short Heater Coil	4
14	1075	Discharge Nozzle	1
15	1055	Valve Stuffing Box	1
16	1054	Bottom Unloading Valve	1
17	8031-11	Catwalks	2
18	1089	Auxilliary Air Tank	1
19	8034-19	Brackets	set

PART NO.	HARDWARE PARTS DESCRIPTION	QTY.
1013	1/8” X 2-56 Screw	2
1012	Coupler Pocket Covers	2
1016	3/8” x 2-56 Screw	2
1015	¼” x 2-56 Screw	4
1018	Brake Valve	1
1048	Brake Mtg. Brkt.	1
1020	Brake Reservoir	1
1010	Brake Wheel	1
1093	Brake Stand	1
1041	Brake Mechanism	1
1011	Small Pin	1
1085	Man-way	1
	1/8” ID Washers	6
	Stirrup Steps	4
	Decals	1
	Catwalk Instructions	1
	Instructions	1
	Railing and Layout Template (8-1/2 x14)	1

Tools

All basic model workers tools – files, motor-tool with fine burrs, hobby knife, 1/8" drill, 2-56 tap drill (#55), 2-56 Cear Drill , 2-56 tap,#76 Drill, #72 Drill, #68 Drill Wood blocks for holding parts square, metal square, etc.



An assembly fixture is a great aid. It will aid in drawing the alignment lines for top and bottom center plus the catwalk position.

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

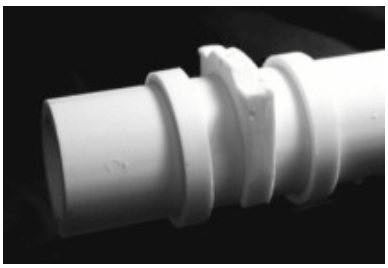
Some parts have lead encapsulated within them. In the event the lead is exposed for any reason, do not allow it to remain on the skin. Dispose of any lead shavings that may result. Obey all safety precautions of all suggested cements and assembly materials.

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

ASSEMBLY

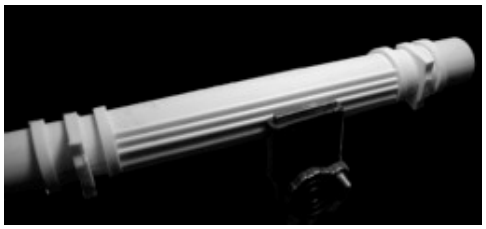
1 Clean the entire Main Tank Tube with lacquer thinner or acetone. Work fast since the chemicals can soften the PVC if left on for a long time. The idea is to remove the printed markings and take off the gloss surface. Draw a line the entire length of the tube using a straight edge as shown. Transfer the position of the line as shown and draw a second line 180 degrees from the first. This provides a center line top and bottom of the tank tube.

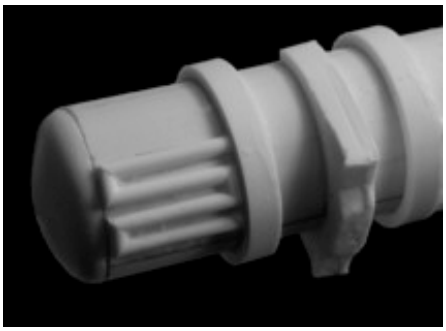
2 Use the provided template to install reinforcing rings and the tank bolster. Apply just a spot of glue on one side either top or bottom and wait for the cement to set after making sure the part is straight (perpendicular to the tube length.



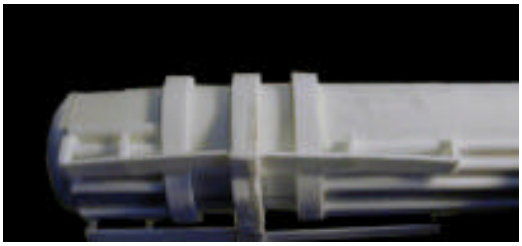
3 Cement the Tank Pressure Ends (3) to the tank tube.

4 Without removing the web between the pipes, apply the Long Tank Heater Coil (11) as shown. The heater coil should be installed ½ pipe width from the bottom center line. Start by gluing small sections at the bottom the bend the top side into gluing position and apply cement to small areas. An accelerator such as "Zip Kicker" will help set the ACC cement quickly. Wipe off any extraneous cement before it has a chance to set. Next apply the 4 Short Heater Coils (12). These parts appear to be 1 pipe width higher on the side of the tank than the bottom heater pipes. Make sure the open end of the piping point toward the center of the tank.

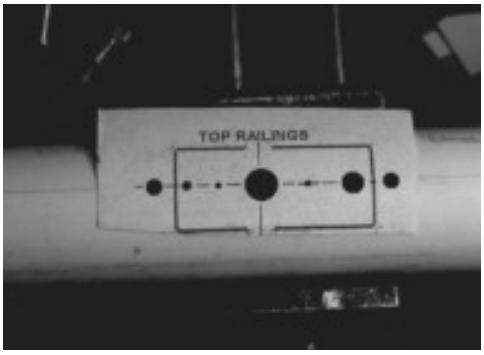




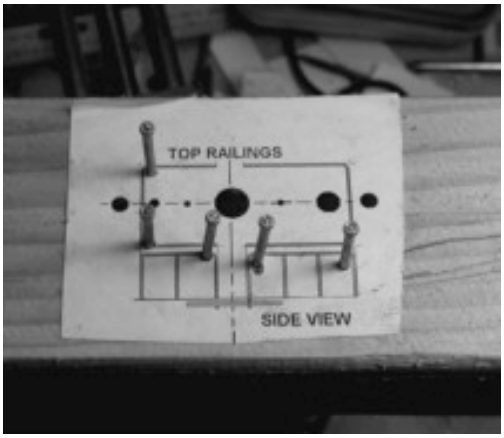
5 Install the Running Boards (4) as show. The narrow spaced brace sets go near the ends. The end pieces need to be trimmed to length. The intermediate length units are correct length. The braces are glued to the tank heaters. Trim the tops of the braces. Make sure the running boards are level. "Web" the ACC cement between the braces and the heater pipes.



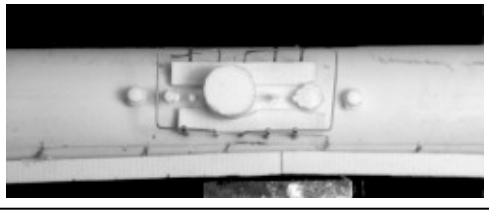
6 Clip the part of the template as shown and apply to the tank tube. Rubber cement is a good solution since it can be removed with lighter fluid. Use the side view on the template to locate the upright stanchions. Start with a #72 drill and enlarge as necessary for the upright stanchions.

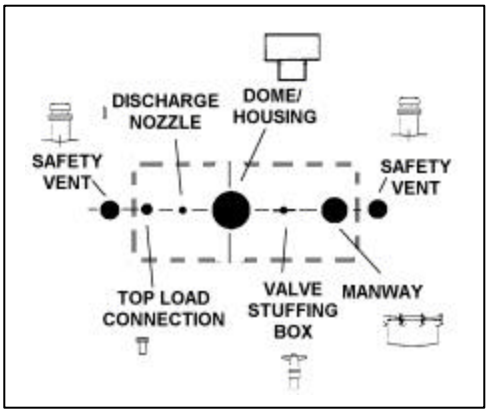


7 Use the other diagram near the top of the template to make a bending fixture. The picture shows that these are all the nails needed to perform all of the bends.

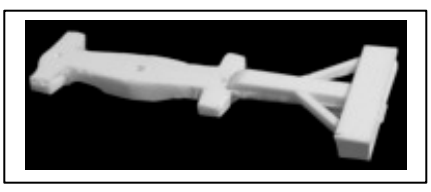


8 Use .020" music wire to make the handrails. The nails in the bending jig aid in measuring off the distances and facilitate making the bends. I used Athearn stanchions for the handrail bracing. Refer to the template for the location of standard tank car parts. Add the Dome Platforms (10) as shown. Refer to the Standard Catwalk Instruction sheet for the installation of catwalks.

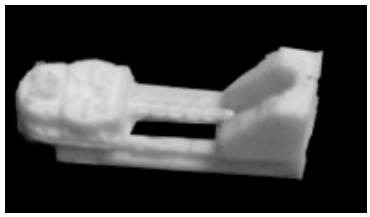


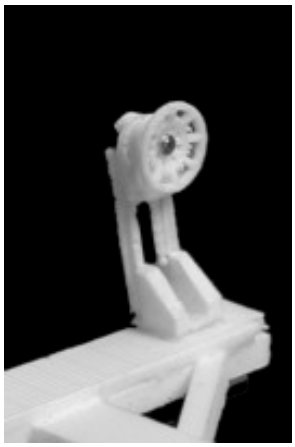


9 Glue the Truck Bolster Top (6) to the Truck Bolster Bottom (5).

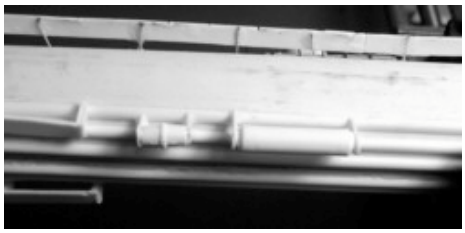


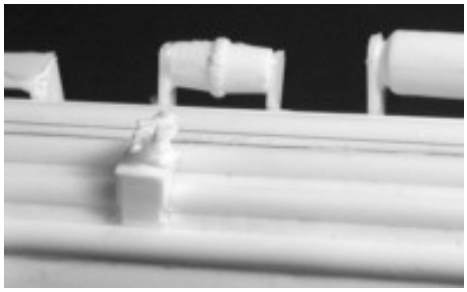
10 Glue the brake mechanism to the brake stand as shown. Install the brake wheel using the small pin. Cut the pin off and use an emery wheel on a motor tool to smooth it.





11 Add the Brake and air reservoirs as shown. Add the Brake Valve to the Brake Bracket and install as shown.





12 Refer to the Catwalk Instruction sheet for installing the catwalks.

PAINTING

. Use a lacquer based primer such as floquil.

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 the color coat.
2) I used Floquil's Tuscan for the car color.
3) 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 and float off.
3) Slide the decal directly onto the wetted surface with finger or 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) Top coat the decals with Testor's Dullcote for best results.