CONCEPT MODELS

http://www.con-sys.com

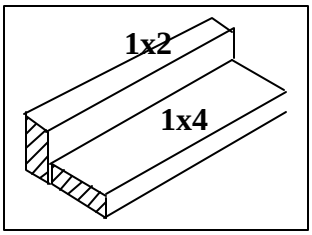
8331 Sheep Ranch Rd.
Mountain Ranch, CA 95246

This car kit approximates the Santa Fe's ATSF GA-78 series ore car. The kit(s) are supplied less trucks and couplers. Basic lettering and numbering set decals are provided. Multiple car packs use this same instruction sheet.

ATSF GA-78 SERIES ORE CARS

Tools

All basic model workers tools – files, motor-tool with fine burrs, hobby knife, #76drill, Wood blocks for holding parts square, metal square.



A gluing fixture is a great aid to assembly. It helps hold parts square while gluing.

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 will work. 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 type ACC cement.

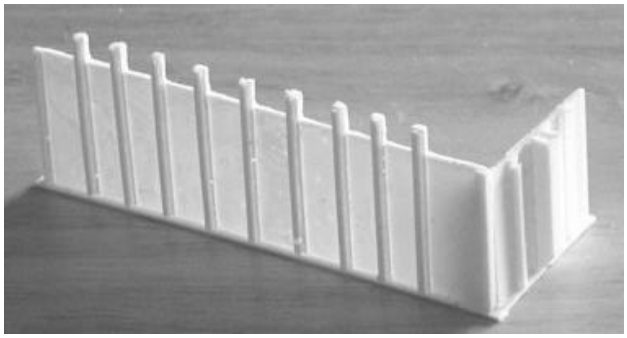
WARNING
Some parts may have lead encapsulated within them. In the event the lead is exposed for any reason, do not allow it to remain on the skin. Dispose of any lead shavings that may result. Obey all safety precautions of all suggested cements and assembly materials.

Item No.	Part No.	DESCRIPTION These are the items required to make one car.	QTY.
1	2000-1	Sides	2
2	2000-2	Ends	2
3	2000-3	Bottom	1
4	1010-0	Brake Wheel	1
5	1011-0	Pin	1
		Decals	1
		Instructions	1
	1012-0	Coupler Pocket Covers	2
	1013-0	2-56 x 1/8” Screws	2

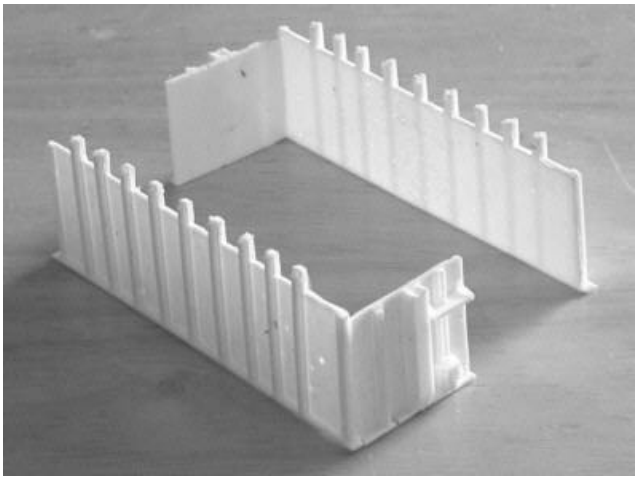
1 Wash all parts with a mild detergent such “Dawn” using a sponge to rub the surfaces. This is important for good paint adhesion.

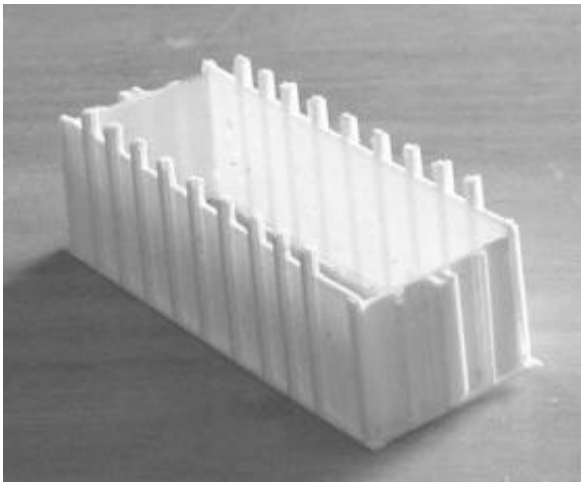
It is recommended that an ACC accelerator be used to speed the setting of the cement. Swab one piece with the accelerator using a Q-Tip and apply cement to the other.

2 Begin by attaching one end and one side as shown – ends will be between the two sides - not attached to the side end. Make 2. Make sure you make as two identical “L” sub-assemblies …..or it won’t mate.

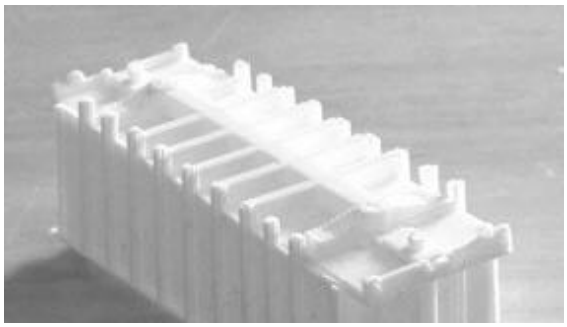


3 Mate the two “L” sub-assemblies with ACC cement to create the body side structure as shown.

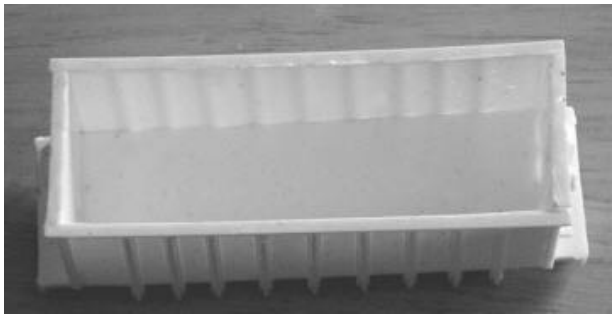




4 Fit the floor into the side structure and secure with ACC cement.



5 Apply ACC cement to the bottom seams to ensure good adhesion.



6 Drill a #76 hole in the brake wheel and the brake gear mechanism on the end of the car. Attach brake wheel as show using the pin provided. Trim the pin.

Notch the coupler covers at the front to fit the built-in draft gear box. Attach the coupler covers using the 1/8" screws. Optional detailing may be performed at this time.

The car is now ready for painting. It is suggested that Floquil's Zinc Chromate primer be used followed by Mineral Brown and then Glosscote for decaling.

The decals provided are a very thin type and it highly recommended that you slide the decal off the backing onto the car. A decal setting solution is advised. After the decals have dried, top coat with clear matte finish.