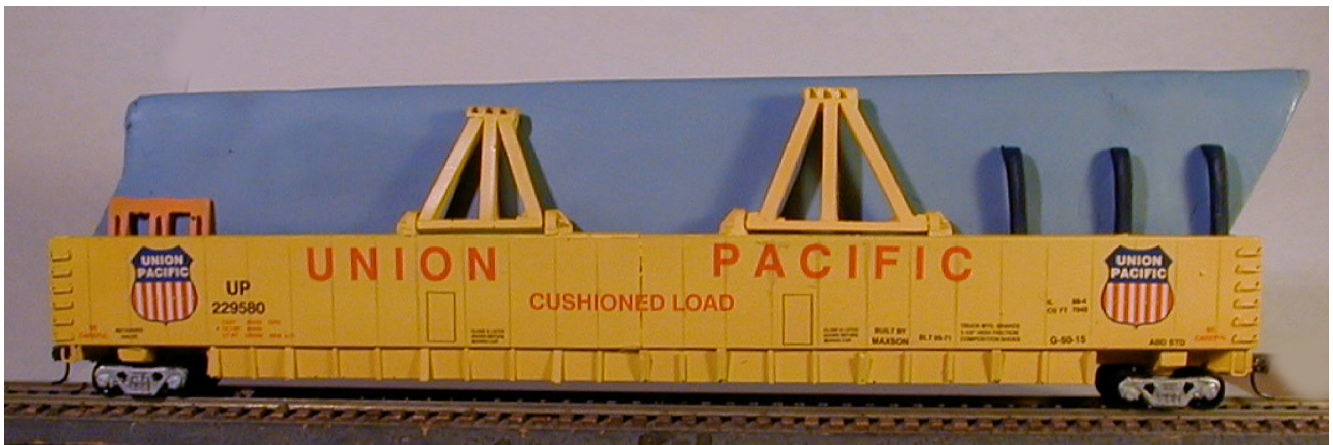


CONCEPT MODELS

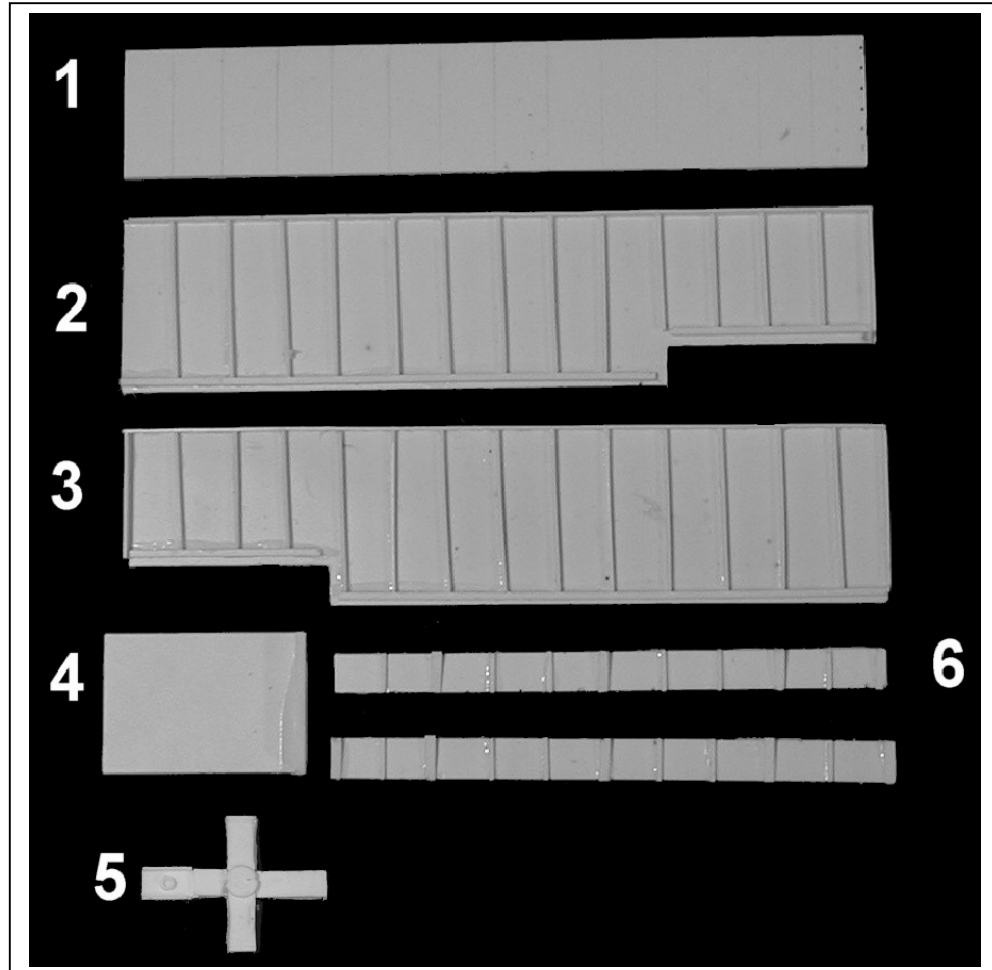
Web Address: <http://www.con-sys.com>

8810 El Toro Way
Stockton, CA 95210



**INSTRUCTIONS FOR UP DC-10
WING CAR**

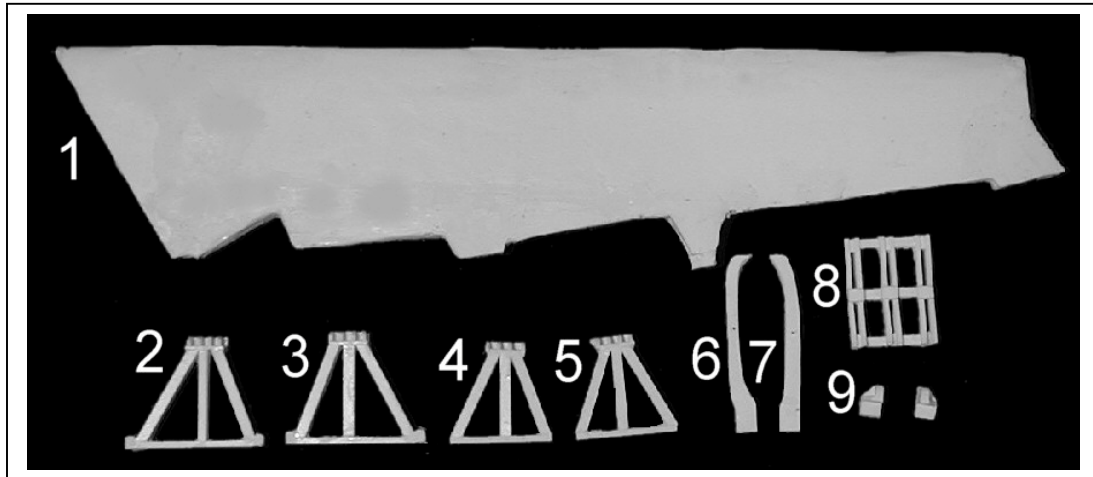
PARTS
DC-10
WING
CAR



Item No.	Part No.	DESCRIPTION	QTY.
1	2003-1	Upper Side	4
2	2003-2	Right Interior Side	2
3	2003-3	Left Interior Side	2
4	2003-4	End Platform	2
5	2003-5	Bolster & Coupler Assy.	2
6	2003-6	Side Braces (pr.)	2
7	2003-7	.030" x 8s.f. x 63s.f.	1
8	2003-8	.030" x 7'9"s.f. x 44s.f.	6

Part No.	GENERIC PARTS	QTY.
1014-0	3/16" Pan Hd. Screws	2
1011-0	Pin, Short	8
1012-0	Coupler Cover	2
2003	Decals (set)	1
2003	Instructions	1

DC-10 WING & MOUNTS



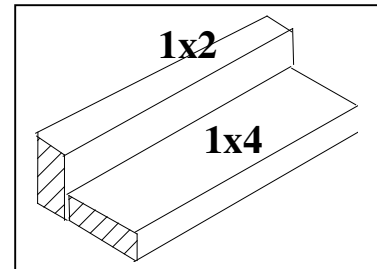
Item No.	Part No.	DESCRIPTION	QTY.
1	2003-9	Wing Blank	1
2	2003-10	Left Large Brace	1
3	2003-11	Right Large Brace	1
4	2003-12	Left Small Brace	1
5	2003-13	Right Small Brace	1
6	2003-14	Wing Brace Top	3
7	2003-15	Wing Brace Bottom	3
8	2003-16	Brace Rack	2
9	2003-17	Brace Brackets	8

TOOLS

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

GLUING FIXTURE

A gluing fixture is a great aid to assembly. It helps hold parts square while gluing. **It is almost mandatory for this model.**



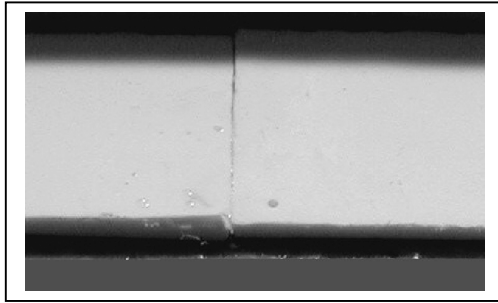
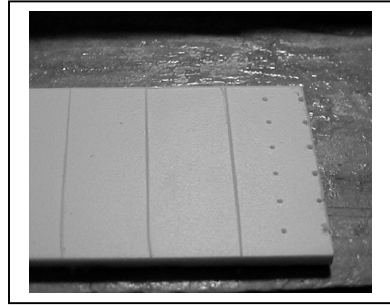
NOTE: This kit consists of resin castings and must be assembled with an ACC cement (not provided) – both the thicker types as well as the thin. Solvent cements will **NOT** bond the parts together! Resin parts are more fragile than common styrene plastic used in injection molded models. Use reasonable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

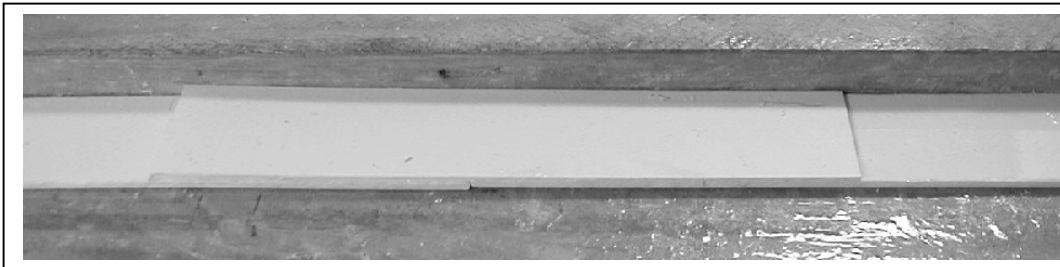
ACC cements allow the modeler to work very quickly. A general rule is to use the thin cements to glue long joints taking advantage of capillary action that makes the cement run the length of the seam. The thicker cement is suited to applying large area parts to each other. An accelerator can be applied 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.

IF YOU WANT PAINT TO STICK - Wash the parts before assembling with a dishwashing detergent such as “Dawn”. Rub lightly with a soft sponge. Use enamel thinned with lacquer thinner. - Ace Hardware - 1/2 pt. cans.

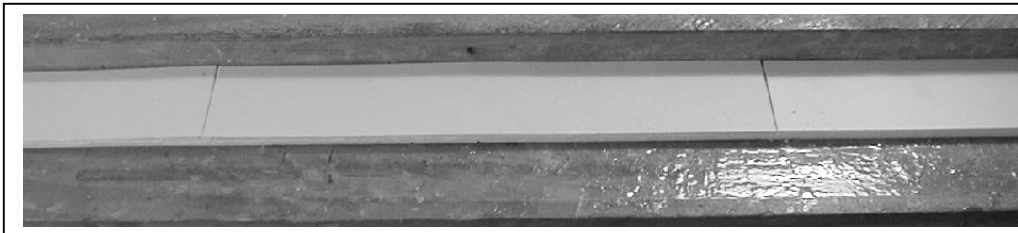
1 This is where the gluing fixture that we suggest comes in handy. Take two of the Upper Sides (1), lay face down with the handgrab holes at the ends. Butt the two together and cement with ACC. Make 2.



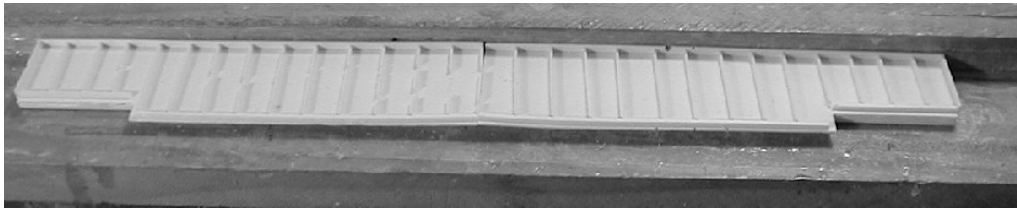
2 Working on the backside of the Upper Side assemblies, cement one of the .030" x 44sf strips to lap the center joint. (Not the big long floor.)



3 Now add on of the strips to each side of the center strip. When set; trim the styrene even with the ends.



4 Still working with the side face down, add the interior sides making sure to get them even.

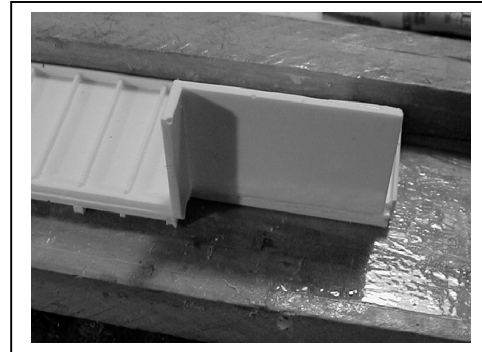


5 Now turn the side assembly face up and add the Side Braces strips. The one where the left side of the strip is plain should be in the center.

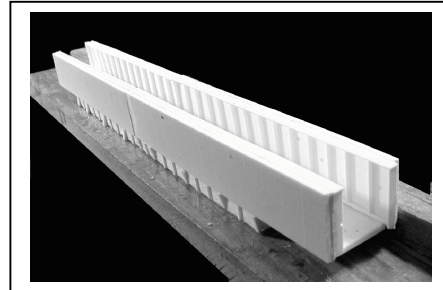


6 Now even up the sides and fill any gaps with Squadron's Green putty to make the joints between the top and end surfaces smooth and even.

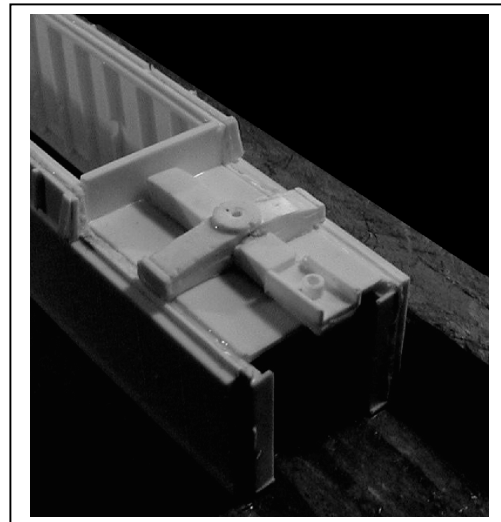
7 Add the end platforms and make an identical pair the same way.



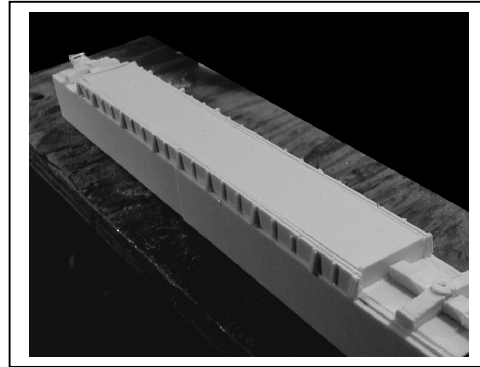
8 Next, mate the two sides being careful to attaching the side perpendicular to the end platforms.



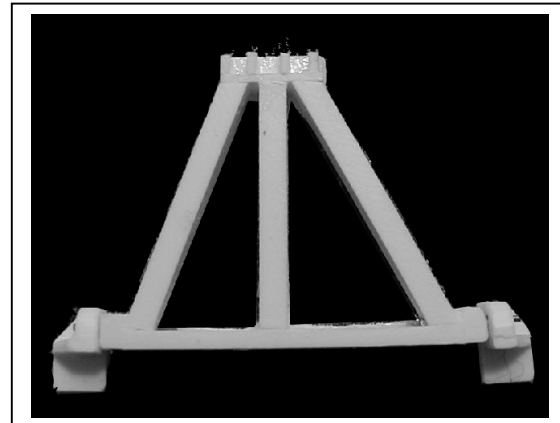
9 Now add the Bolster and coupler assembly as shown.



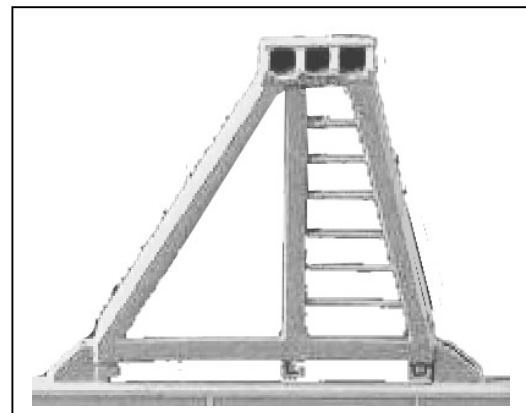
10 Install the floor styrene sheet as shown. It is suggested that you only place small dots of ACC cement along the inside to make sure that the floor maintains the sides straight. After the floor is secured, run a small bead of cement on the inside where the floor meets the side.



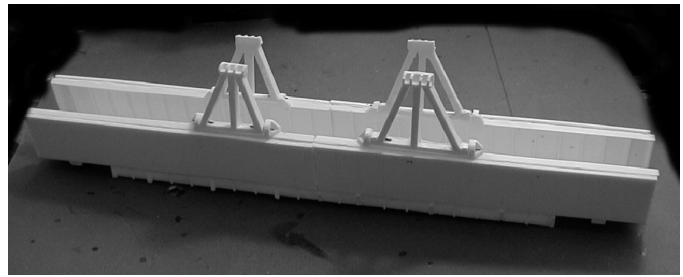
11 Attach the Brace brackets to the Wing Braces as shown. Drill a small pilot hole and use the supplied pins. Don't worry if it doesn't pivot much. The braces only have to lean in toward the center of the car. The longer side of the braces goes towards the car ends. Be sure to match up the large and small braces in pairs.



12 If you want to add the step detail to the wing braces, now's the time. The steps appear to be round rod. You could use either plastic or metal but I think plastic rod would be easier to handle and shape flush with the brace legs. We didn't add the holes for this since it exceeds our ability to mold them into place since they would be at a 90-degree angle to the flow of the molding compound. The mass of the car is such that in HO you still get a good-looking model without them - your choice.



13 Attach the brackets in pairs. The longer end of the braces goes towards the end of the car. They divide the car in three equal sections as shown.



14 Assemble the wing brace tops and bottoms as sets as shown. These do not follow the contour of the wing since they were designed for point contact. I used .032" steel. Long needles, cut to size, would work.



15 Cover the wing blank to simulate a tarpaulin-like covering. I got away with setting my airbrush to make it 'orange peel' and look a little fuzzy. You could use copy paper or a very thin piece of cloth. To set up the car with the wing as shown in the cover picture, place the wing with the largest section of the wing matching the largest brace pair. The large end of the wing should extend slightly from the car. These cars were ran in pairs and an idler between and the large wing ends toward the idler. At the large end of the wing slide in the wing brace sets so they approximate the contour of the wing. Push the Brace Racks in from the small end of the car. The wing should be close to center and the car balanced. The weight of the wing blank is such that it needs to be in the center for stability.

PAINTING

If you followed the instructions for cleaning the parts before assembly, you are ready to paint. A primer is recommended. Allow drying 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.

- 1) Now that Floquil has left the scene I'm buying primer from ACE hardware as an enamel part of their rust proof line. A half-pint goes a long way. Especially when you thin it 3 parts lacquer thinner to 1 part paint.
- 2) Yellow should only be diluted up to 50-50. Two light coats of white with plenty of drying time in between are recommended. White on top of primer is recommended for light colors yellow through red. It improves the color.
- 3) 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. A decal setting solution is recommended for best adhesion.

- 1) Cut out the decal segment you are going to apply.
- 2) Apply decal setting solution to the area where the decal will be positioned.
- 3) 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 slide off the backing.
- 4) 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.
- 5) Top coat the decals with Testor's Dullcote for best results.

