CONCEPT MODELS

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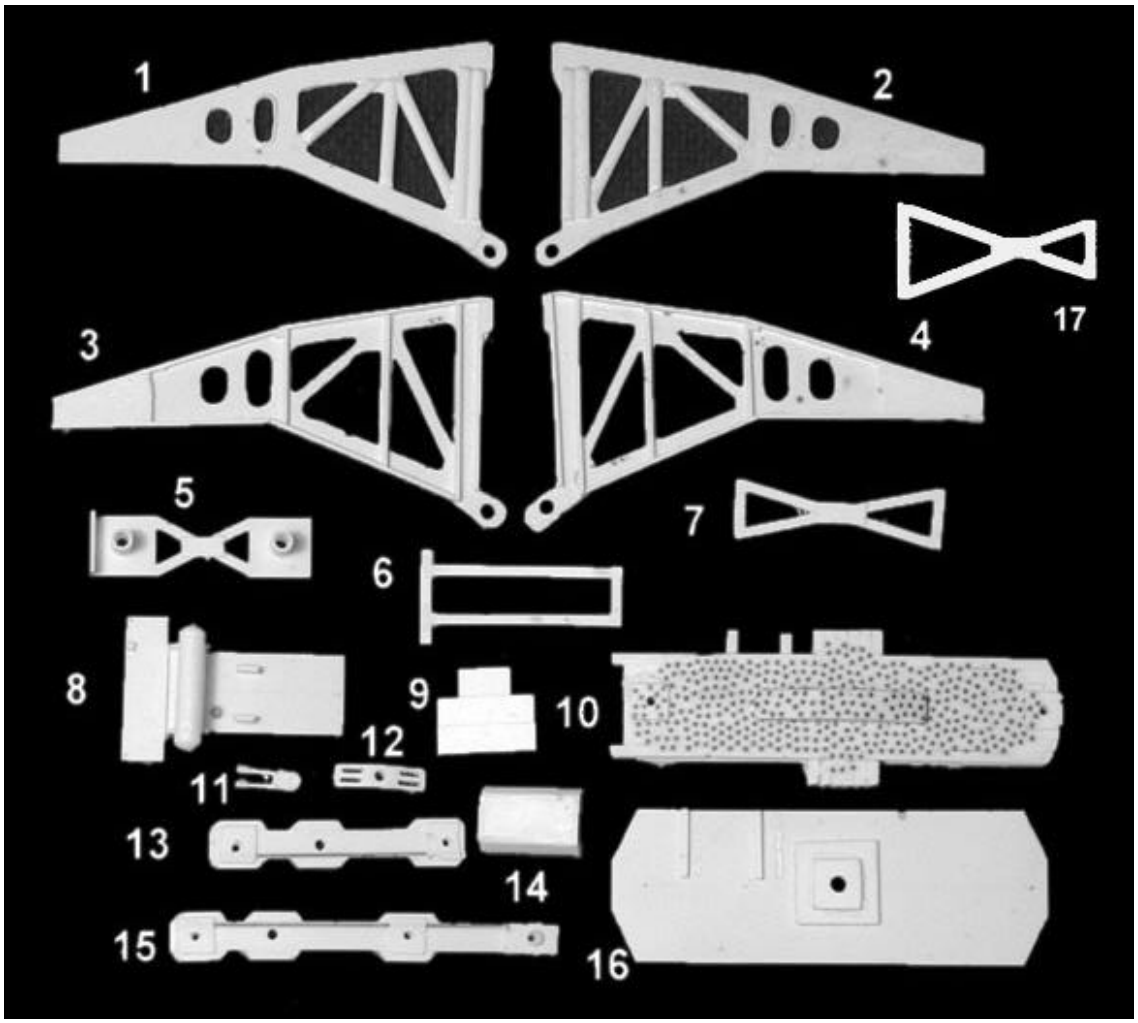
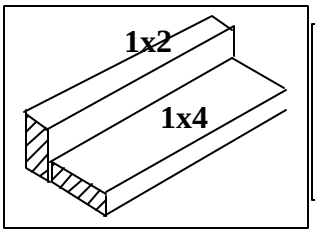
8331 Sheep Ranch Rd.
Mountain Ranch, CA 95246



GEX 40010 SCHNABEL CAR KIT

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.



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. 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

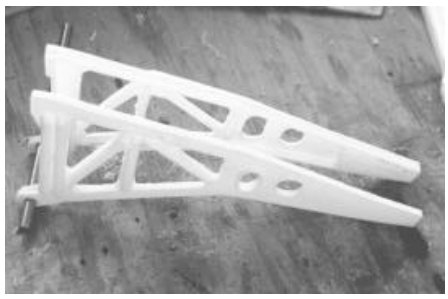
ACC cements allow the modeler to work very quickly. A general rule is to use the thin cements to glue long joints taking advantage of capillary action that makes the cement run the length of the seam. The thicker cement is suited to applying large area parts to each other. An accelerator can be applied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

Item No.	DESCRIPTION	QTY.
1	Main Lift Girder – Right Outer	2
2	Main Lift Girder – Right Inside	2
3	Main Lift Girder – Left Outer	2
4	Main Lift Girder – Left Inner	2
5	Main Lift Girder – Pivot Brace	2
6	Main Lift Girder - Front Brace	2
7	Main Lift Girder - Top Brace	4
8	Deck & Tank Assy.	2
9	Control Console	2
10	Main Span Bolster – Bottom	2
11	Brake Wheel Stand	2
12	Truck Spanner	4
13	Center Span Bolster	2
14	Power Plant	2
15	Outer Span Bolster	2
16	Main Span Bolster Top	2
17	Web Brace	2
18	Small Pins – Brake Wheel Mount	2
19	Coupler Pocket Covers	2
20	1/8" x 2-56 Pan Head Machine Screws	2
21	¼" x 2-56 Pan Head Machine Screws	8
22	½ x 2-56 Pan Head Machine Screws	4
23	1/8" x 10'6" Plastic Tube – Lift Girder Pins	2
24	1/8" x 4' Plastic Tube – Main Bolster Pivot	2
25	Brake Wheels	2
26	Decals	1
27	Instructions	1
28	Brake Reservoir	2
29	Brake Valve	2
30	Brake Cylinder	2
31	1/8" i.d. Washers	12

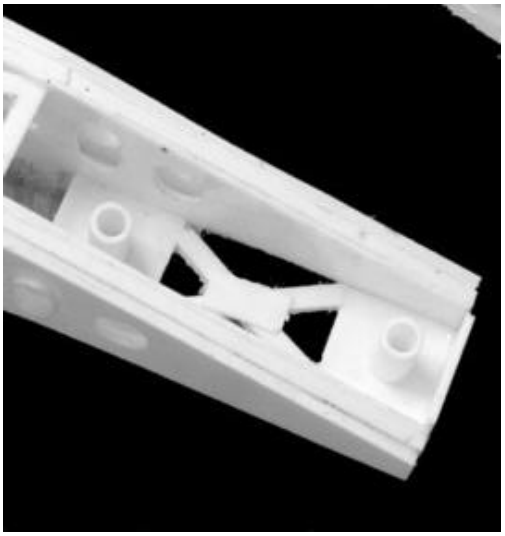
1 Use a 1/8" rod (not supplied} to align the Inner and outer main left girder sides. Ream the holes with a 1/8" drill as necessary.



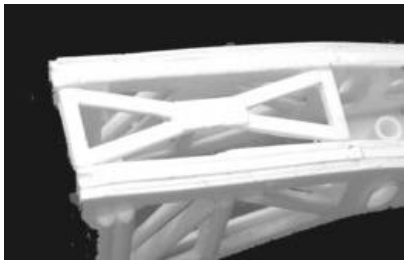
2 Apply ACC cement at the small end first t get alignment. You will end up with two pairs. The tubing side is the exterior face. You will end up with 2 pairs.

3 Use the 1/8" metal rod to set up 1 pair. The tubing sides should face outward.

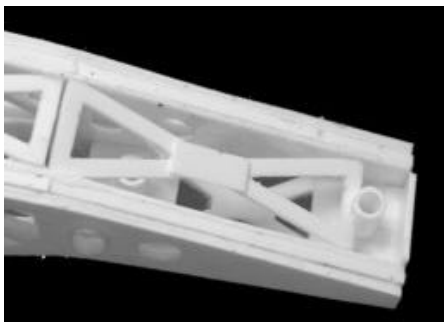
4 Install the Pivot Brace (5) flush with the bottom of the girder pair which are parallel at this point. Use enough ACC cement to "web" the parts to insure a solid joint.



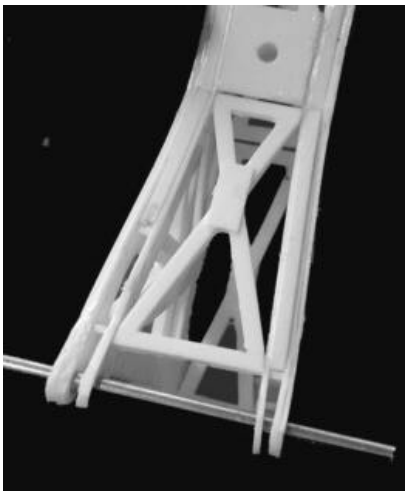
5 Install one of the Top Braces (7) at the top front of the lift girder structure. The structure is parallel at this point.



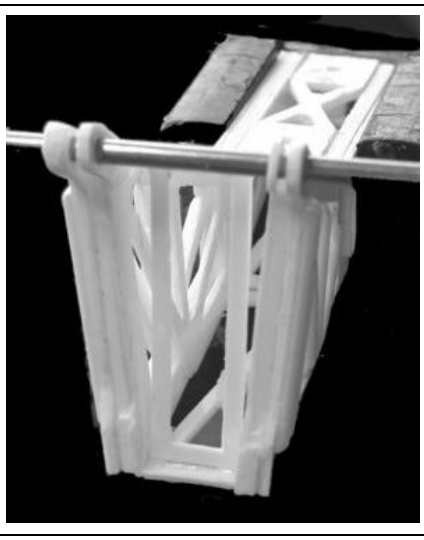
6 Install the another Top Brace (7) at the top rear of the lift girder assembly. It is necessary to file away a small portion at the edge adjoining the pivot.



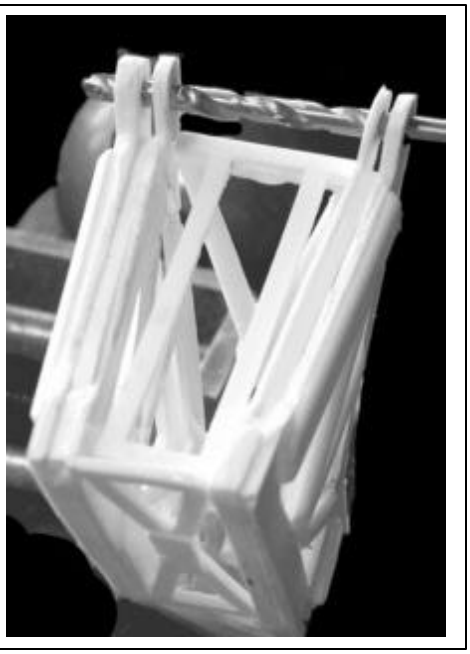
7 After the foregoing glue joints are completely set, install the bottom Web Brace by spreading the Lift Girders apart .



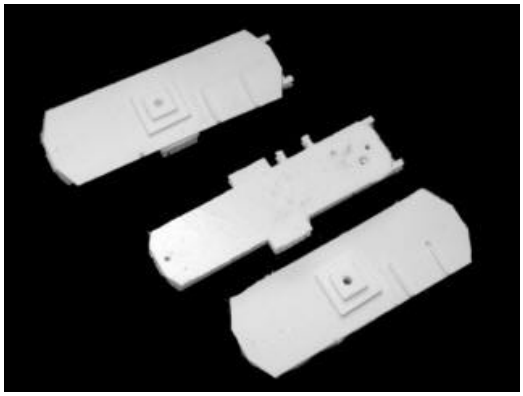
8 Install the Front Brace (6) making sure to leave clearance for the load pivots.



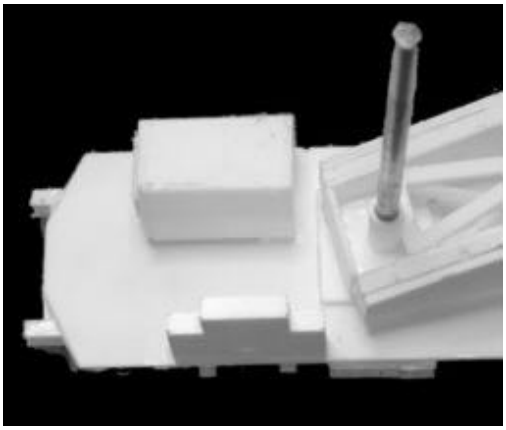
9 Use an 1/8” drill to ream the holes straight to ease installing the Lift Girder Pin (23). You will make two of these assemblies.



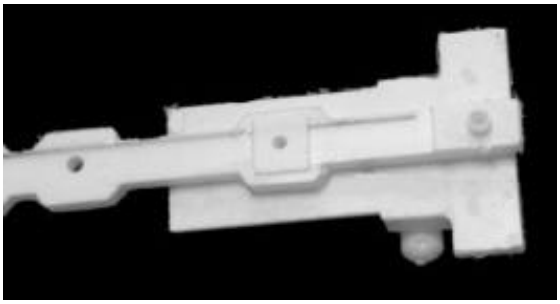
10 In this step the Main Span Bolster Top (16) is cemented to the Main Span Bolster Bottom (10). Use cement sparingly by applying in small dots. The bottom part of the picture shows the orientation of the two pieces. The upper portion shows the cemented assembly.



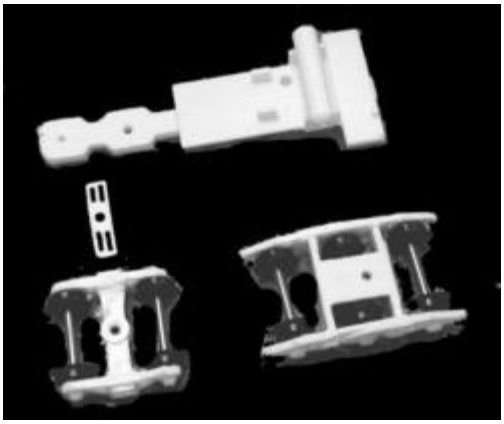
11 Install the Power Plant {14) centered on the two mounting bosses. Note the required clearance for the Lift Girder Assembly. Install the Control Console (9) as shown. The console is centered over two beams protruding from the side of the Main Span Bolster.



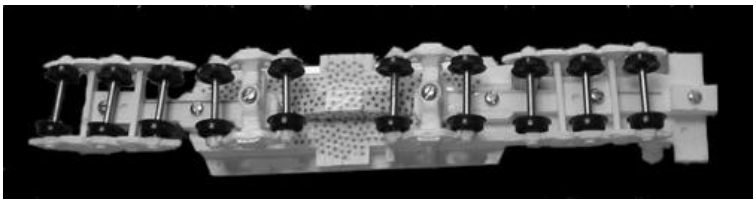
12 Cement the Outer Span Bolster (15) to the bottom center of the Deck & Tank Assembly (8) as shown.



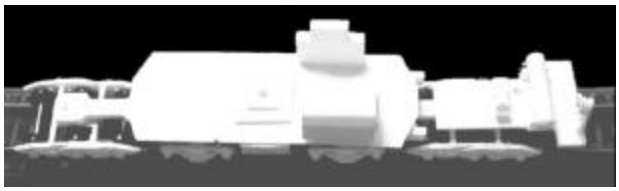
13 This picture shows the orientation of the trucks that will be installed on the Outer Span Bolster Assembly. Note the orientation of the 6-wheel truck mounting hole. NOTE: Trucks are not supplied as a standard item with the car kit.



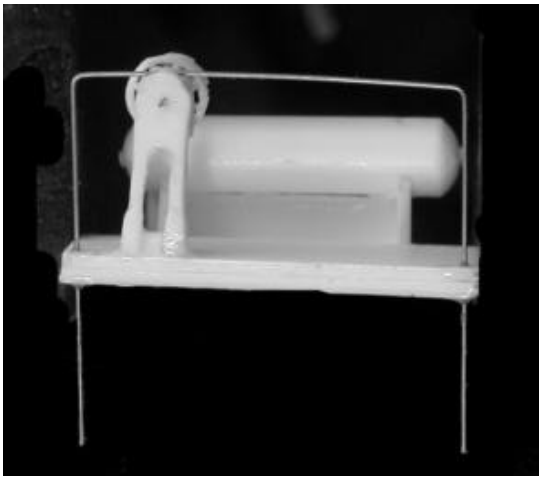
14 Install the trucks as shown. Use ¼" 2-56 screws for the bolster pivots and the 6-wheel trucks. The longer screw is for the 4-wheel truck and its spanner.



15 The completed bolster assembly should look like this



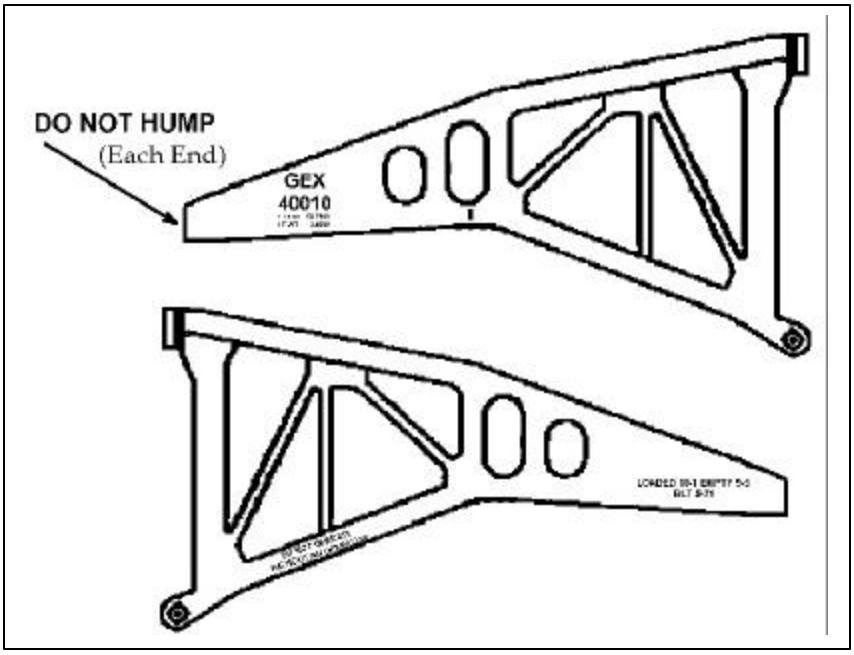
16 Install the brake wheel to the brake stand using the small pin. Drill a #76 hole. Cut the pin off as shown. The end platform railing can be made of .015 music wire (not supplied) and installed by drillin #76 holes in the corners of the platform.



PAINTING

After cleaning the surface as indicated in the initial instructions and cleaning up any blemishes, spray with a primer such as Floquil's and allow to dry thoroughly. The lift girders and bolsters, are painted black according to the latest photos. Original photos show the car to be painted a very light color such as yellow. (I'm going to paint mine yellowThe load should be painted a cold machinery gray. That is a darker gray than Floquil primer.

DECALING



The decals supplied are limited to the (il)legible lettering derived from various photos. We are unable to find a suitable source for additional details.
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 away 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.

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.