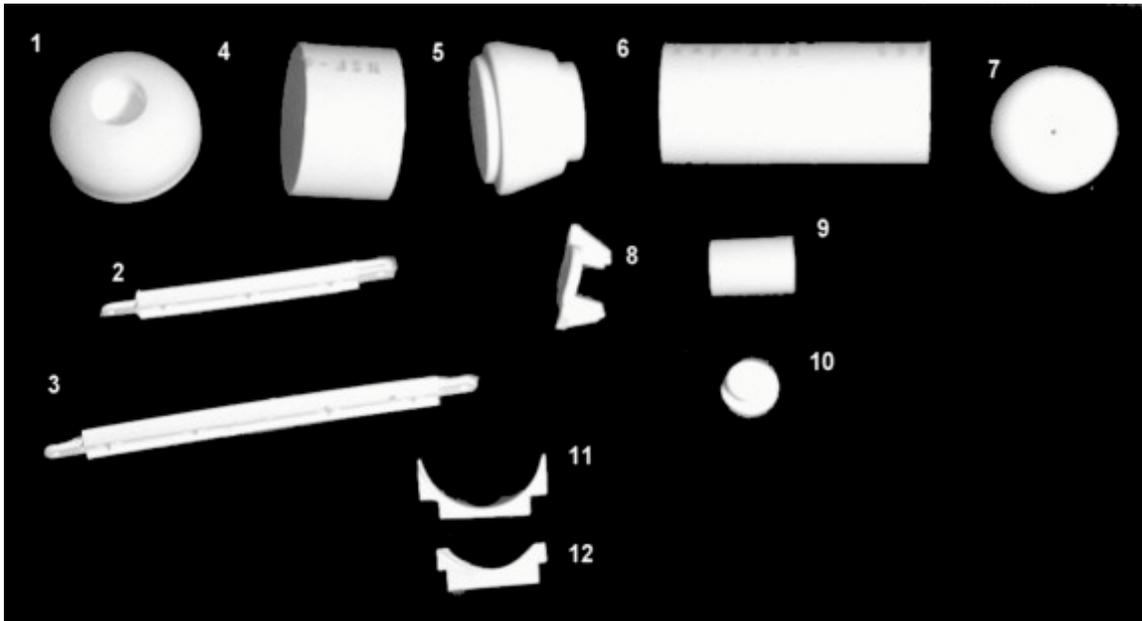


CONCEPT MODELS

<http://www.con-sys.com/Index.htm>
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8331 Sheep Ranch Rd.
Mountain Ranch, CA 95246



Note: This kit was designed for the Concept Models CEBX 800. If used on other manufacturers, slight modifications to assembly all within the expertise of a kit builder must be made.

**CEBX 800 SHORT REACTOR
SHORT LOAD**

I t e m N o .	Part No.	PART DESCRIPTION	QTY.
1	6514-1	Large Round End	1
2	6514-2	Short Beam	2
3	6514-3	Long Beam	2
4	6514-4	Large Tube (2" nom. x 1-1/2" long)	1
5	6514-5	Reducer - 2" to 1-1/2"	1
6	6514-6	Small Tube	1
7	6514-7	Small Round End	1
8	6514-8	Compression End Braces	2
9	6514-9	Compression Spacer	2
10	6514-10	Compression End Cap	2
11	6514-11	Large Tank Brace	4
12	6514-12	Small Tank Brace	2
13	6514-13	Adjusting Screws	2
14	6514-14	Instructions	1
15	6514-15	PINS – 1/8" tube X3/8"	6
16	6514-16	Lift Brackets	4

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.

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..

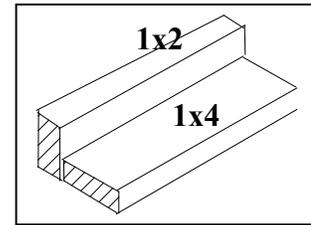
Gluing with ACC Cements – USE WITH CARE

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. Work very carefully when positioning the parts for gluing. ACC cements adhere very quickly and permanently

Instructions

Tools Required

All basic model workers tools – files, motor-tool with fine burrs, hobby knife, 1/8" drill, Wood blocks for holding parts square, metal square, etc. A filler such as Squadron's Green Putty or Bondo is required for some seam filling. 1/8" diameter brass rod (not supplied) is excellent for use as a pilot for hole alignment.

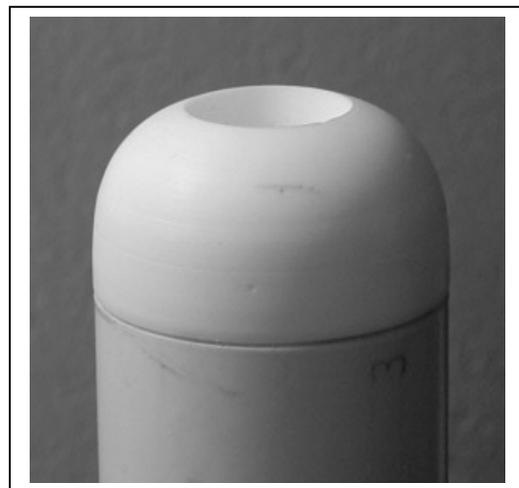
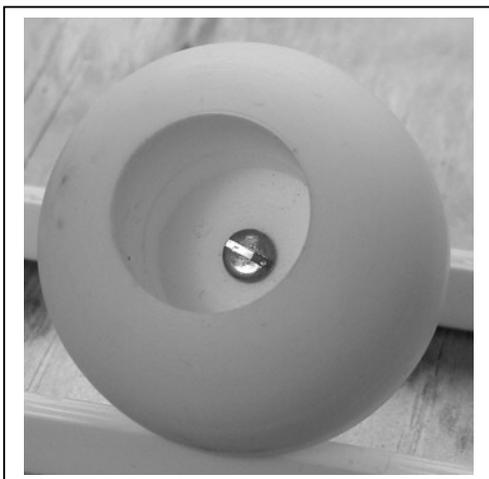


A gluing fixture is a great aid to assembly. It helps hold parts square while gluing.

PREPARATION Wash the parts before assembling with a dish washing detergent such as “Dawn”. Rub lightly with a soft sponge. Clean the tube(s) with Acetone. Use sparingly and in a ventilated area. This cleans the PVC tube and removed the shine from the

ASSEMBLY

1 Plug the compression spacer (9) with the compression end cap (10). Attach the small round end (7) to the long tube (6) with ACC cement. Each end should be drilled and tapped for a 6-32 screw if you want to use the screw to adjust the load. (This will make more sense later.)

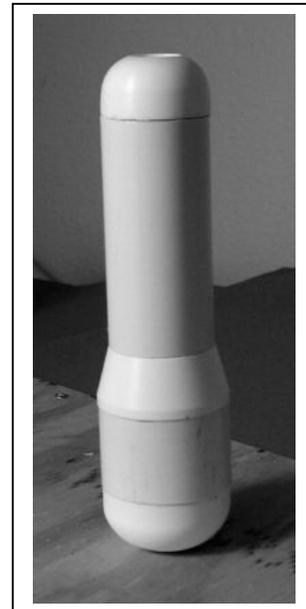


2 Use ACC cement to connect the reducer (5) to the large tube (4).

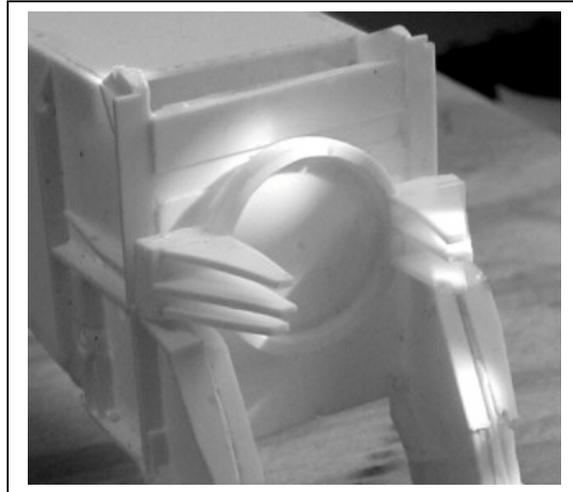


3 Attach the large domed end (1) to the assembly as shown.

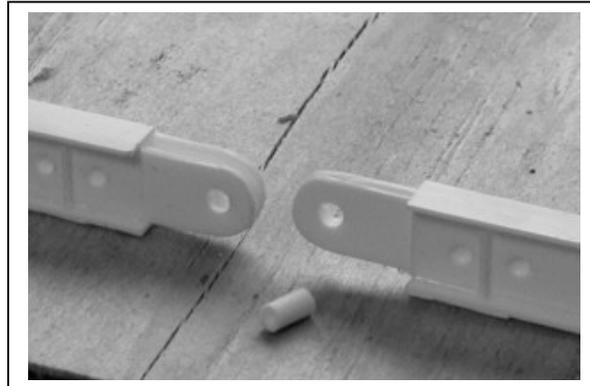
4 Complete the assembly of the reactor model body with ACC cement.



5 Install the Compression End Braces (8) using contact cement to allow removal of the load when desired. (such as for painting)



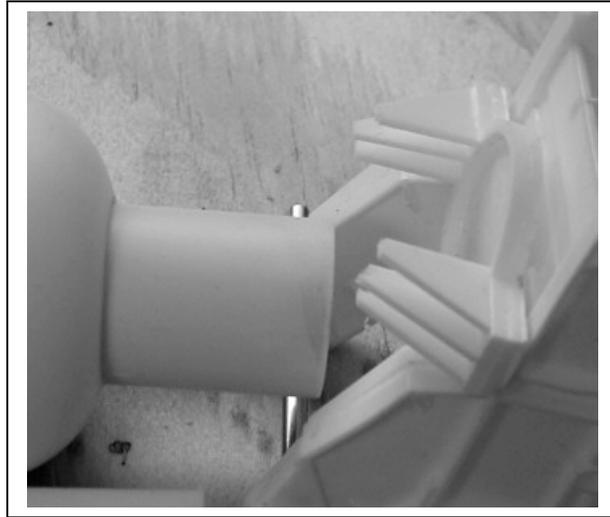
6 Prepare the tension beams (2,3) as shown. Use 1/8" styrene tube to connect the pieces. Lay the 2 piece structure flat and apply ACC cement to make it rigid.



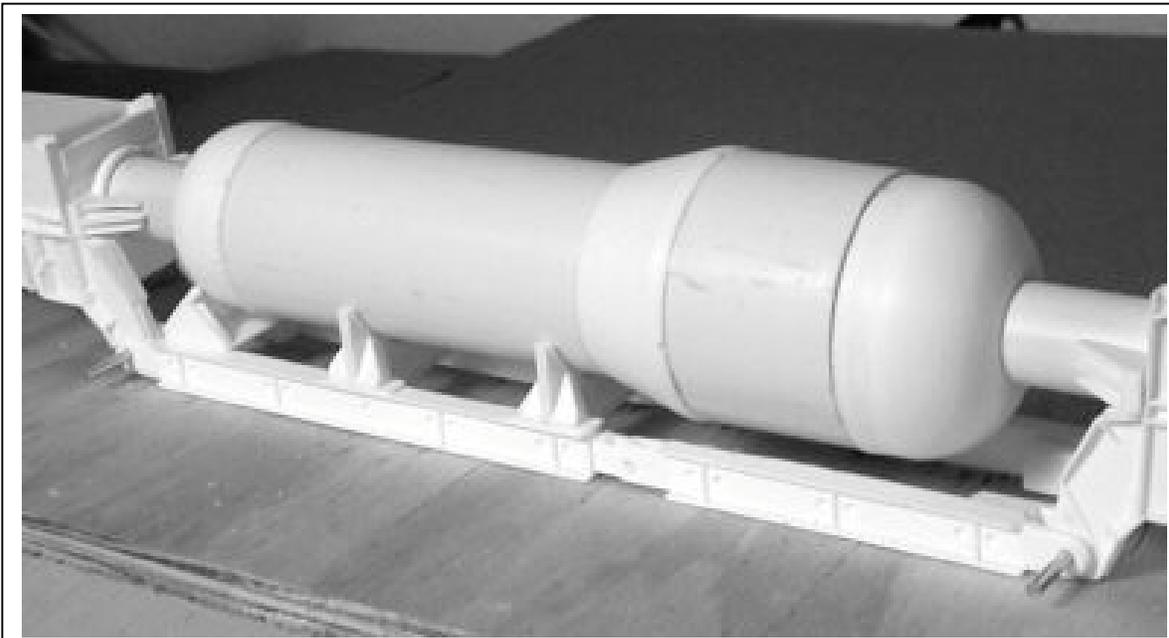
7 Using temporary 1/8" brass rods, Thread on the inside brace supports and the tension beams as shown. Remove the bosses at the ends of the tension beams and cement the inside brace supports to the tension beams



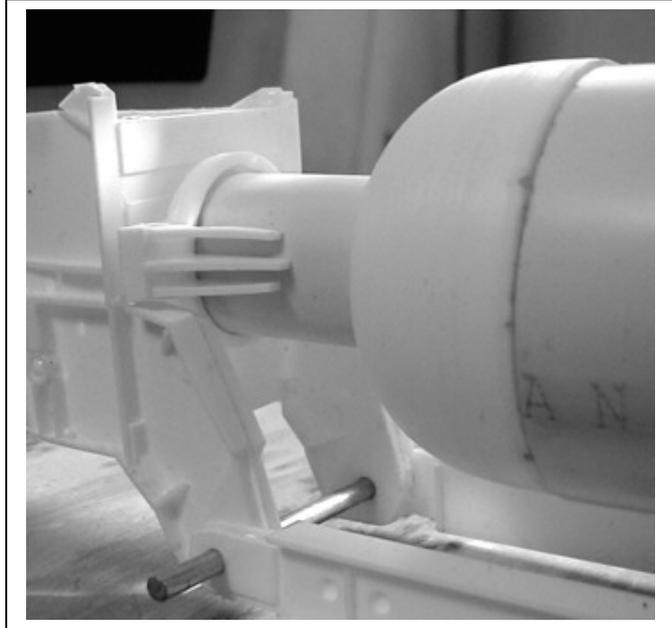
8 Insert the plugged end of the compression spacer assembly and insert into the end of the tank assembly. Prepare the remaining end as previous and install using ACC cement.



9 Prop the ends of the Schnabel car and align the load as shown. This will be a series of trials to get a proper fit. Note the ends of the car may vary according to the kit purchased. Four braces are supplied (not shown) to support the load on the tension beams. Fit the braces to fit so they do not disturb the alignment of the load or distort the tension beams. It may be necessary to trim the open end of the Compression Spacers or adjust the length by using the adjusting screws installed in the ends.



7 Determine that the load is being held straight and level by the compression braces and spacers.



8 Replace the brass fitting rods with the two short styrene tubes at each end. It is suggested that the tank be cemented to the braces for maximum stability.

9 Detailing

Since no two of these tanks or vessels seem to be mass produced, add piping and ports as desired. Be careful not to add to the width or height since this is already a very large profile item.