

# CONCEPT MODELS

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**CEBX 101 SCHNABEL S SCALE CAR KIT**

## WARNING

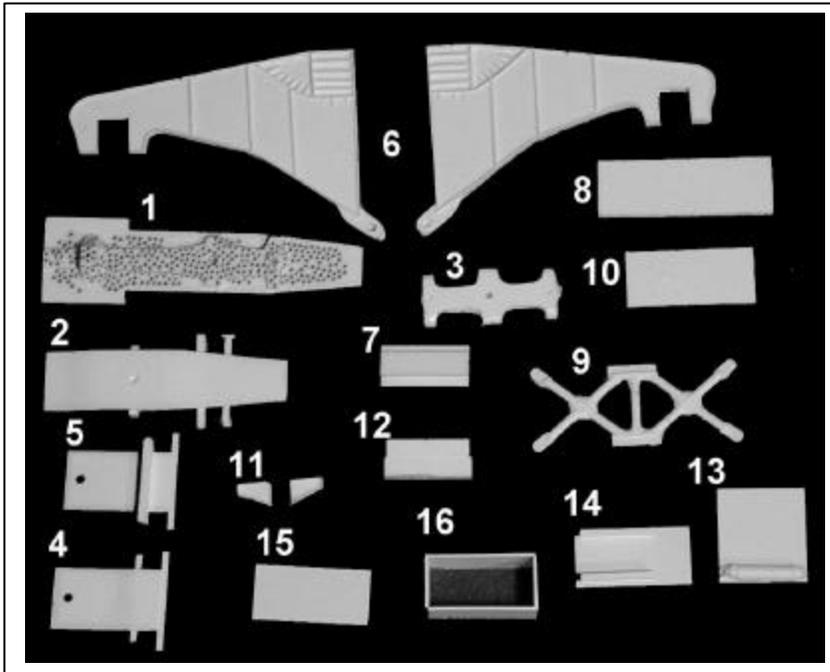
Some parts have lead encapsulated within them. In the event the lead is exposed for any reason, do not allow it to remain on the skin. Dispose of any lead shavings that may result. Obey all safety precautions of all suggested cements and assembly materials.

**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.

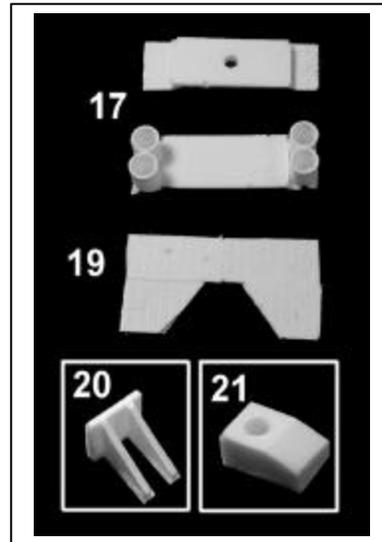
## Gluing with ACC Cements – USE WITH CARE

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

**IF YOU WANT PAINT TO STICK** Wash the parts before assembling with a dish washing detergent such as “Dawn”. Rub lightly with a soft sponge.



**CEBX 101**  
**S SCALE PARTS**



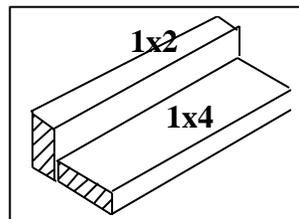
Item	Part No.	PART DESCRIPTION	QTY
1	6529-1	Main Span Bolsters Bottom	2
2	6529-2	Main Span Bolster Top	2
3	6529-3	Center Span Bogie	2
4	6529-4	Yoke - top	2
5	6529-5	Yoke - bottom	2
6	6529-6	Main Lift Girder Pair	2 pr
7	6529-7	Traverse Guide	2
8	6529-8	Girder face plate	2
9	6529-9	Girder Diagonal braces	2
10	6529-10	Girder brace Bottom	2
11	6529-11	Side supports pairs (8 pieces)	4 pr
12	6529-12	Traverse Bearing	2
13	6529-13	Deck with Tank	2
14	6529-14	Equipment Cabinet Support	2
15	6529-15	Equipment Cabinet Roof	2
16	6529-16	Equipment Cabinet Sides	2
17	6529-17	Load Spacer Set	2
18	6529-18	Empty Link Halves	2
19	6529-19	Top Catwalk	2
20	6529-20	Hyd. Cyl. Mounts	4
21	6529-21	Hyd. Cyl. Guide	4
22	6529-22	Girder Brace	2
23			

Part No.	GENERIC HARDWARE s.f = scale feet	Qty.
	1/8" dia. rod x 9'6" s.f.	2
	1/8" dia. rod x 10'0" s.f.	2
	1/8" I.D. Washer (spacers)	2
	1/8" dia. Rod x 3'0" s.f.	2
	3/32" dia. Tube x 9'0" s.f.	6
	5/32" dia. Tube x 2'0" s.f.	4
	3/32" tube x 5'0" s.f.	4
	5/32" dia. Tube x 9'0" s.f.- Lat. Cyl.	2
1011	Small pin	2
1136	Brake Stand (STD)	2
1103	Brake Wheel	2
1016	2-56 x 3/8" screw	2
	Decals	1
	Instructions	1
	Mini-grabs Instructions	1

## 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. Squadron's "Green Putty" or "Bondo" are needed for filler. Any ACC cement ("Krazy Glue"). ACC cement accelerator is also a good idea.



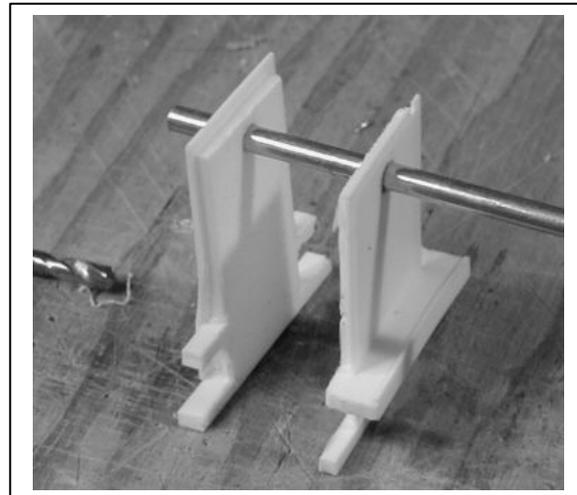
A gluing fixture is a great aid to assembly. It helps hold parts square while gluing.

**IF YOU WANT PAINT TO STICK -** Wash the parts before assembling with a dish washing detergent such as "Dawn". Rub lightly with a soft sponge.

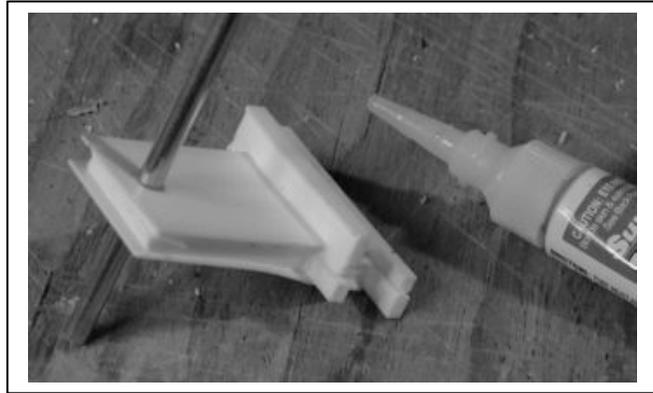
## ASSEMBLY

### **Bogie Assemblies - Make Two**

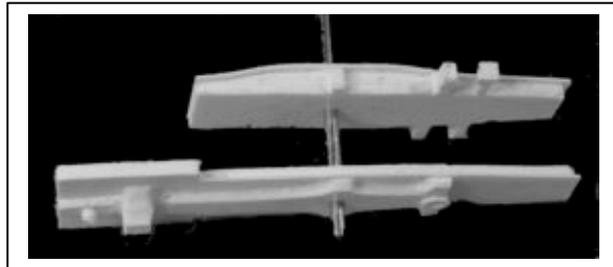
**1** Start by assembling the yokes by using a brass 1/8" guide pin as shown. The holes should be reamed with a 1/8" drill to allow the yoke to pivot freely on the shaft.



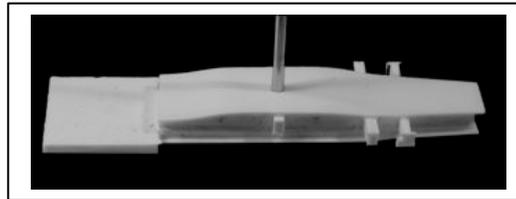
2 Apply ACC cement to glue the yoke halves as shown.



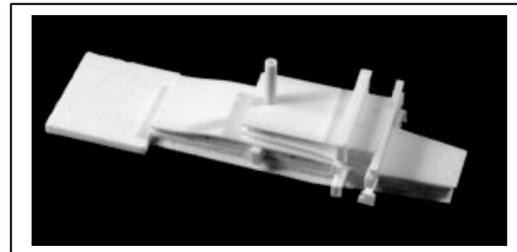
3 Ream the holes on the top and bottom main span bolster and thread onto a 1/8" guide rod.



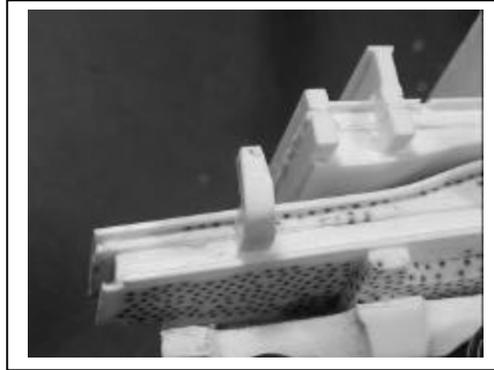
4 Apply ACC cement and press the top and bottom pieces together.



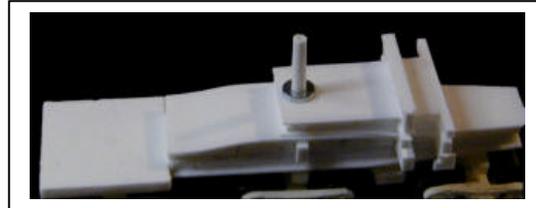
5 Add the 1/8" rod by cementing from the bottom of the bolster with ACC cement. Do not get any cement on the rod at the top side - or it will interfere with the yoke.



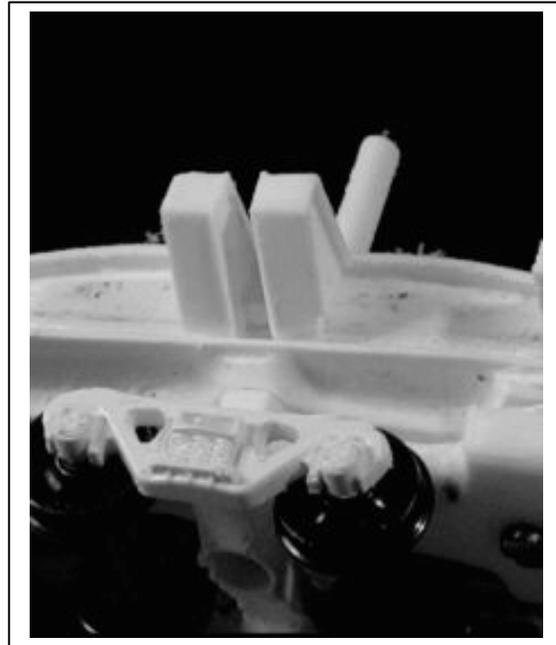
**6** Add the Lateral Cylinder Mounts (22) to each side of the main bolster as shown. Add the Lateral Cylinder after painting. The lateral cylinder is modeled with a single piece of tubing.



**7** Add a 1/8" I.D. washer. Optionally this washer may be installed under the yoke if more clearance is desired.

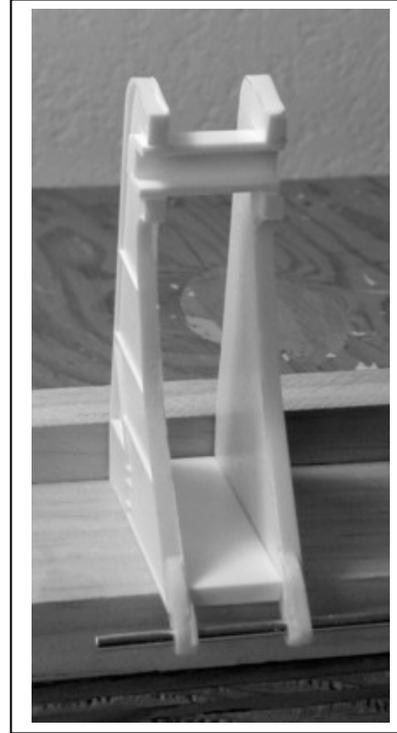


**8** Cement the side supports to the center of the main span bolster. The flanged edges face outward. A small glue guide protrudes at the center location. Make sure that these are well bonded.

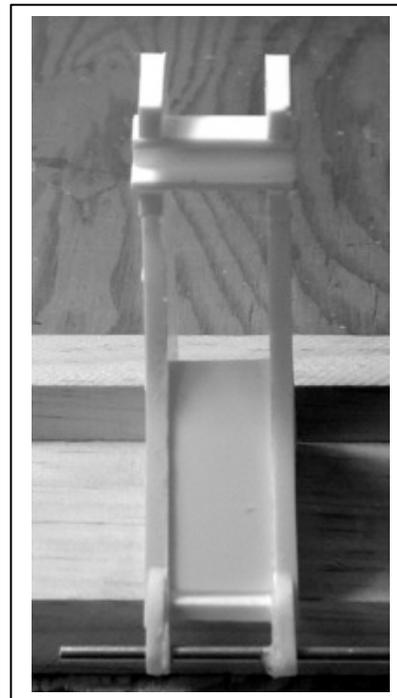


**Main Lift Girder  
Assemblies - make 2**

**1** Install a 1/8" brass guide rod for alignment purposes in the following steps. Fit Traverse Guide into the Main Lift girder pair as shown. With the girder pair placed on a flat surface as shown, glue the girder faceplate into place keeping the assembly square.



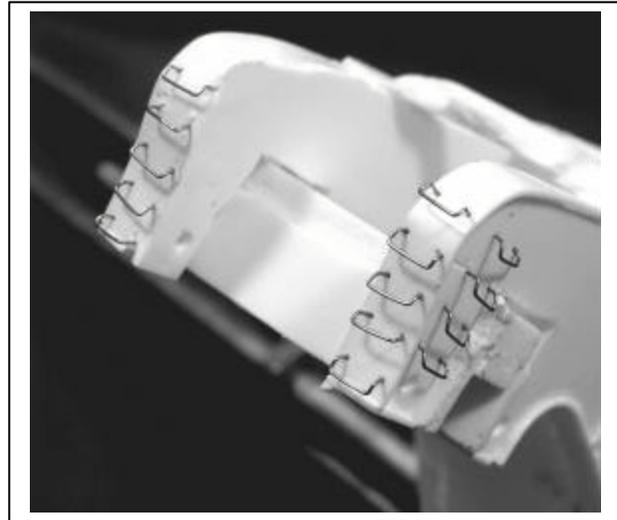
**2** Install and glue the bottom girder brace as shown. This will establish the width of the girder and hold it square. Now glue the Traverse Guide into place **making sure that it holds the girder assembly in square.**



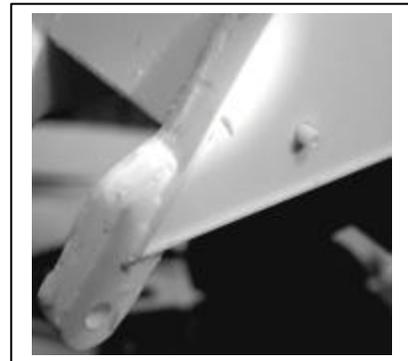
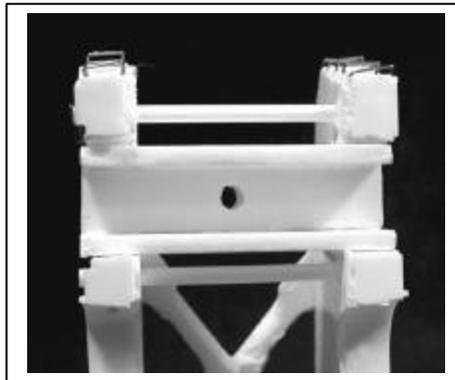
**3** If you made or acquired hand grabs, cut the spacing template for the hand grabs – 4 intervals for the side and 5 intervals for the ends. Apply with rubber cement. (Rubber cement can easily be rubbed off later.) Use the template strips provided.



**4** After installing the hand grabs, use a pin to transfer tiny amounts of ACC cement to the junction of the hand grab and the resin body. Wipe excess cement away with a paper towel edge.



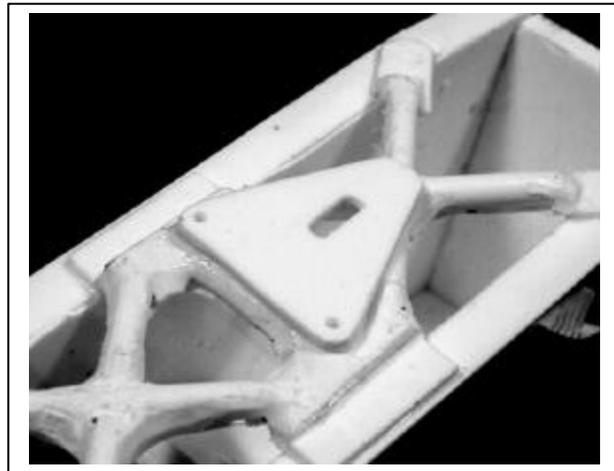
**5** Install the 3/32 tubing as shown (3 places each girder. You may have to drill out the holes with a #30 drill. Next, using small drills in steps, drill the center of the tubing ends until it would appear to be the end of normal pipe wall thickness.



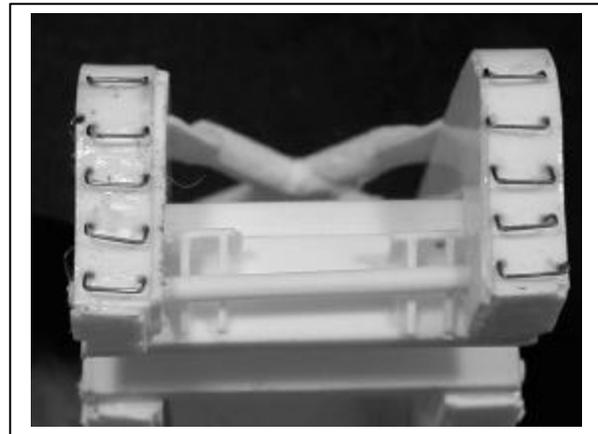
7 Install the diagonal brace assembly as shown with ACC cement.



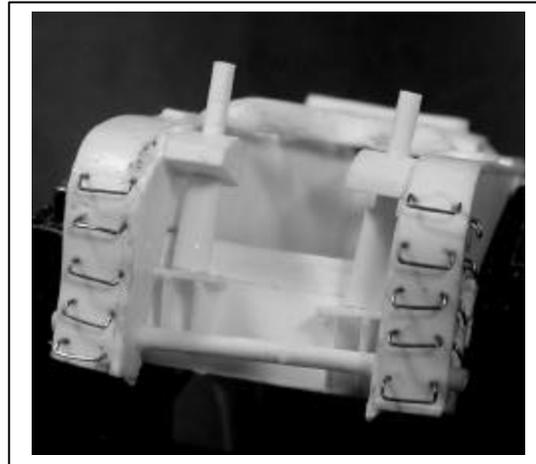
8 Install the triangular brace as shown.



9 Install the Hydraulic Cylinder Mounts. As shown.



**10** Add the Hydraulic Cylinder Guides along with the Hydraulic Cylinders which consist of a 5/32" dia. Tube and a 3/32" tube.

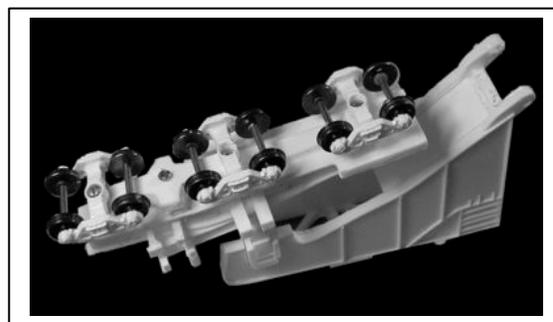


**11** Install the top catwalk by first applying a magic marker to the stubs of the hydraulic cylinders and upsetting the mark onto the bottom of the Top Catwalk (19). Drill large holes to allow the cylinder ends to protrude. In theory the holes are large for the movements of the hydraulic cylinders on the prototype. The ends of the catwalk should be supported with a "U" shaped wire.



### Final Assembly

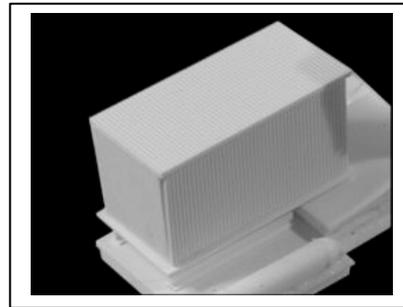
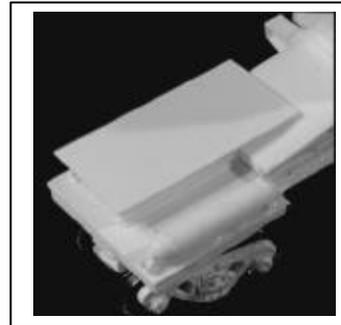
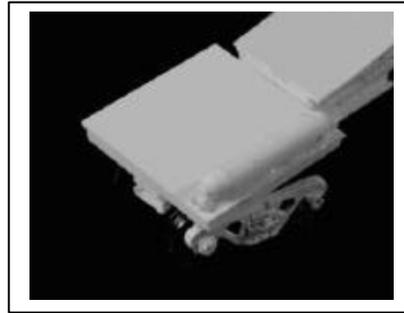
**1** Install trucks (not provided) on the center span bolster and the main span bolster. Install the third truck at the end. Holes are threaded for #2-56 screws.



2 Install the deck with the tank.  
Center on the bolster platform.

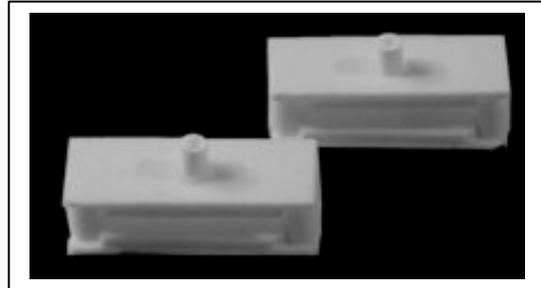
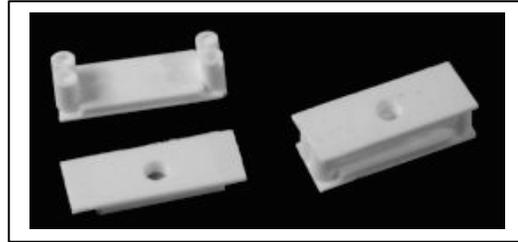
Add the equipment cabinet support as shown. It is off center and positioned on the left facing the end of the car.

Cement the equipment cabinet roof to the cabinet base. **DO NOT GLUE THE CABINET TO THE BASE UNTIL AFTER PAINTING** because it will be difficult to mask.



## LOAD SPACER

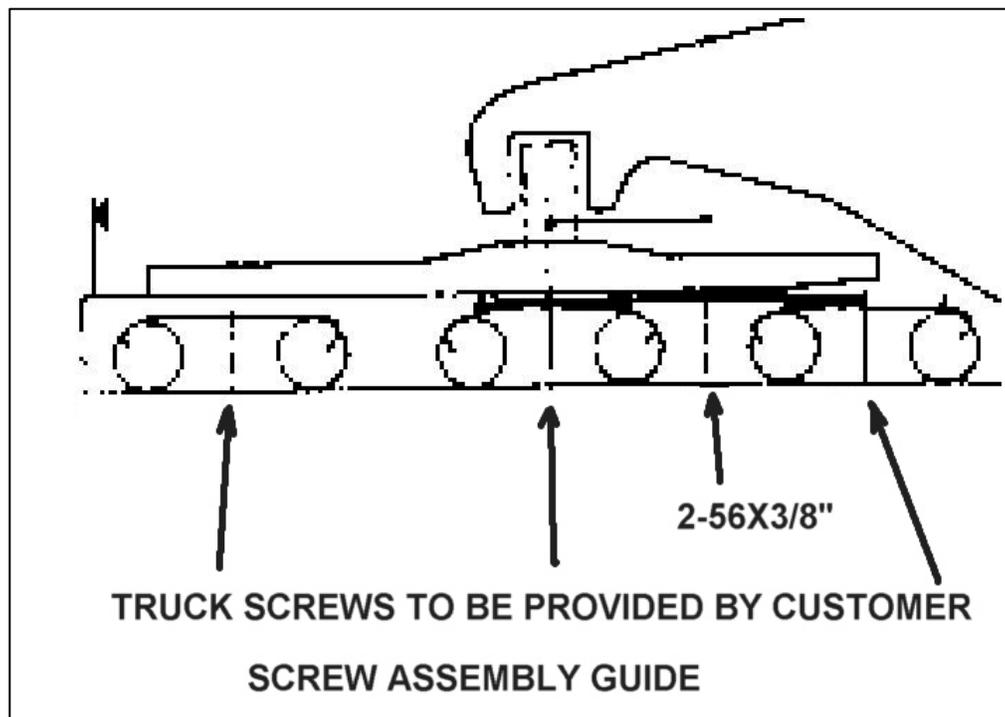
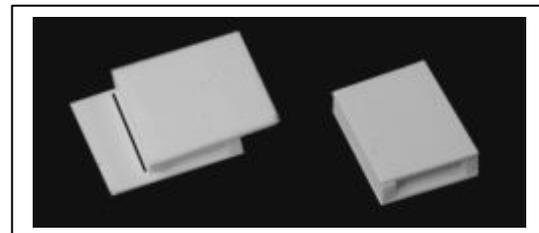
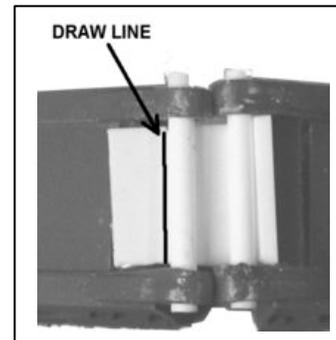
1 Glue the load spacer parts together as shown. Add the short 1/8" dia. rod as shown. The parts are attached to the face of the main girders when running the car empty. Drill a 1/8" hole in the face of the main girders to allow the assembly to be connected at the top of the girder face. These parts are centered where all the little supports on the girder sides terminate at the top of the main girders.



## Couplers

Install the couplers of your choice. You may have to shim the coupler draft gear box to get the correct height.

**LINK** - The link for connecting the empty halves of the car is trimmed and assembled from the two halves as shown. With the load girders upside down and held together in a straight line, mark one of the link halves as shown. Glue the two halves together at the line and trim.



## PAINING

If you followed the instructions for cleaning the parts before assembly, you are ready to paint. A primer for colored parts is recommended. When painting with white do not over dilute with thinner. Twenty five percent thinner should be sufficient with white and will ensure coverage.

Now that Floquil has left the scene I'm buying enamel in ½ pint cans from ACE hardware - part of their rust proof line. With their basic colors you can make every color in the rainbow with a little mixing. A half pint goes a long way. Dark colors can be diluted up to 50-50 White on top of primer is recommended for light colors yellow through red. It improves the color.

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.

The lift girders, traverse support and yokes are painted red. The main and center bolster are painted black. The equipment cabinet is painted silver.(Dullcote with make it look like aluminum.)

## DECALING

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

