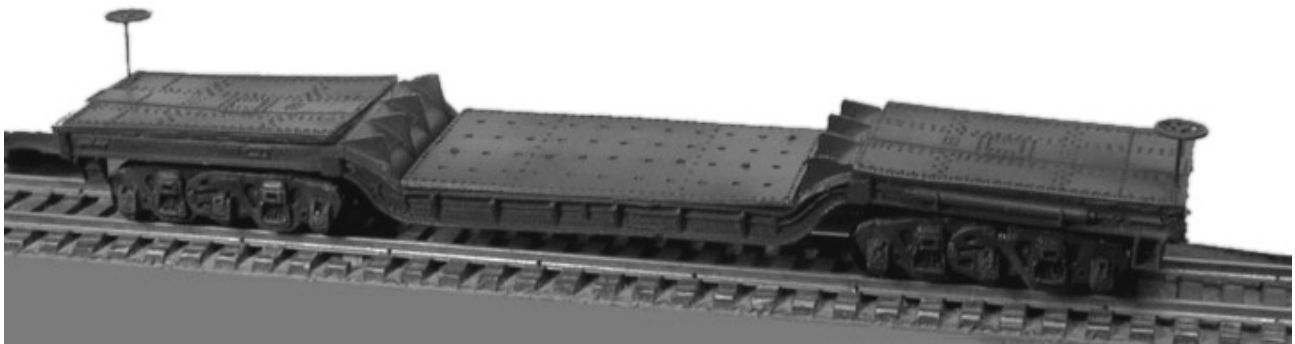


CONCEPT MODELS

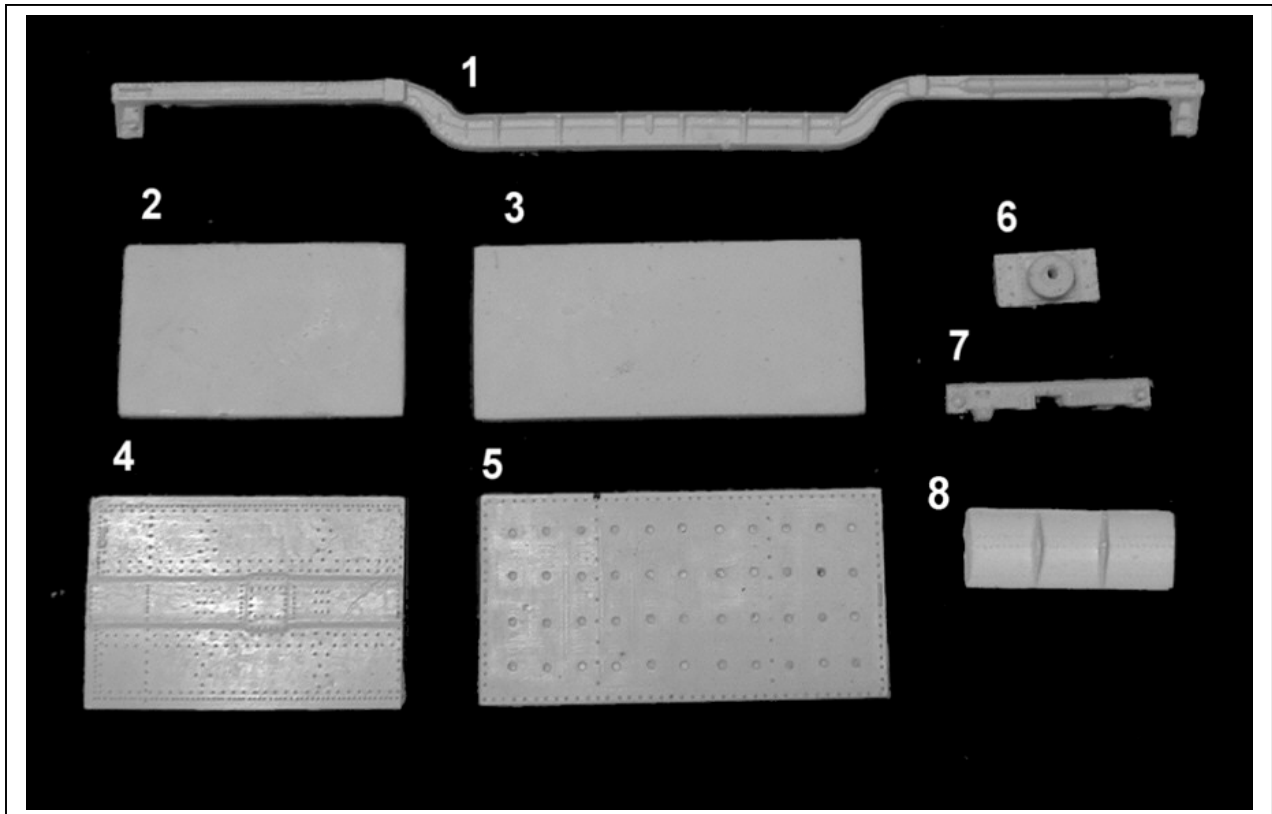
Web Address: <http://www.con-sys.com>
Email: concept_models@con-sys.com

8331 Sheep Ranch Rd.
Mountain Ranch, CA 95246



**INSTRUCTIONS FOR PRODUCT
50' DEPRESSED CENTER FLAT**

PARTS – 50’ DEPRESSED CENTER FLAT



Item No.		DESCRIPTION	QTY.
1	7514-1	Side Sills	2
2	7514-2	End Block	2
3	7514-3	Center Block	1
4	B-311	End Deck	2
5	B-312	Center Deck	1
6	B-64	Truck Bolster	2
7	B-176	End Sills	2
8	B-326	Transition Spacer	2

PART NO.	GENERIC PARTS	QTY.
1014	3/16" Pan Hd. Screws	2
1010	Brake Wheel	2
1071	Brake Staff (Long Pin)	2
1012	Coupler Pockets (set)	2
	Instructions	1

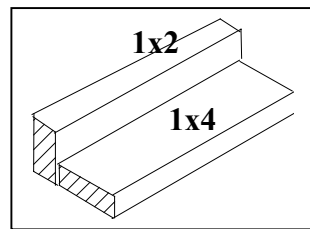
Tools

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

Drills: 1/8", #76, #72, #68, #50 (2-56 tap drill), #65

Music Wire .020" for handrails. Athearn stanchions for tanks cars.

Pins (dressmaker type) for attaching brake wheels and other items.



This fixture is a great aid to assembly. It helps hold parts square while gluing and aids in drawing horizontal lines on tanks for tank cars.

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.

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! They can dissolve them. 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.

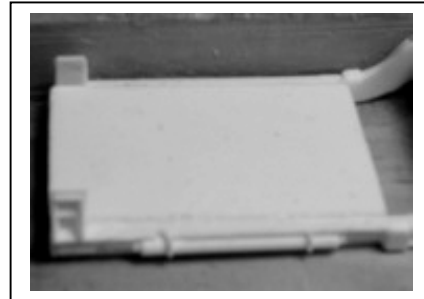
PREPARATION Wash the parts before assembling with a dish washing detergent such as “Dawn”. Rub lightly with a soft sponge.

ASSEMBLY

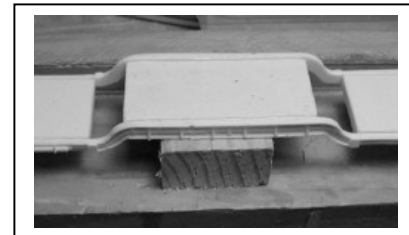
1 Remove the casting flash from all cast parts. Make sure the Side Sills are the same length by filing. Cement the Side Sills (1) to the End Blocks (2) by making a set of matching “L” shapes.



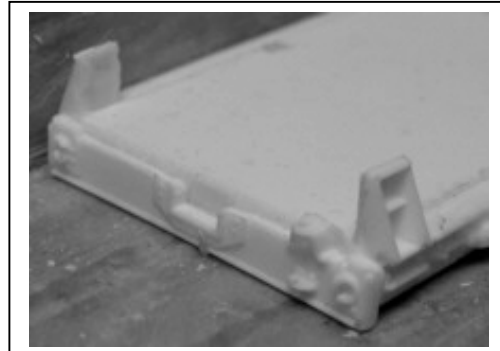
2 Cement the “L” shapes as shown to complete the frame.



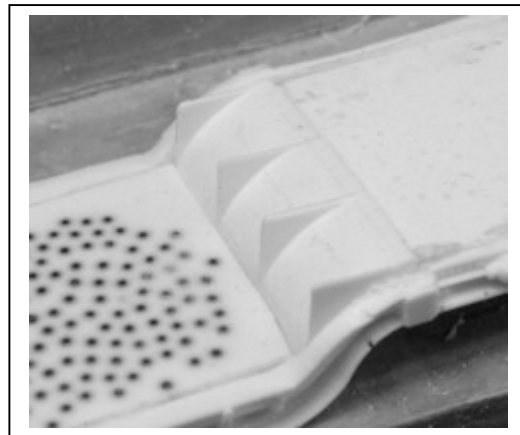
3 Put a block of wood under the assembly as shown so that you may glue the Center Block (3) to the assembly making sure that the Center Block is flush with the top of the sills on the underside of the positioned assembly.



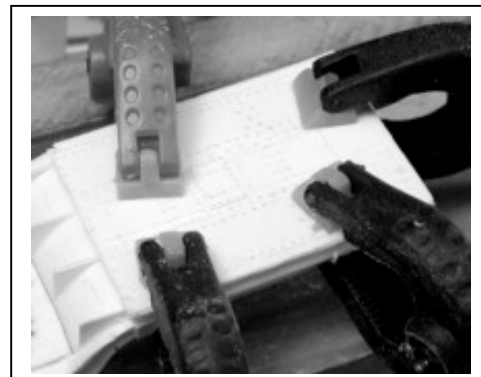
4 Add the End Sills (7) as shown.



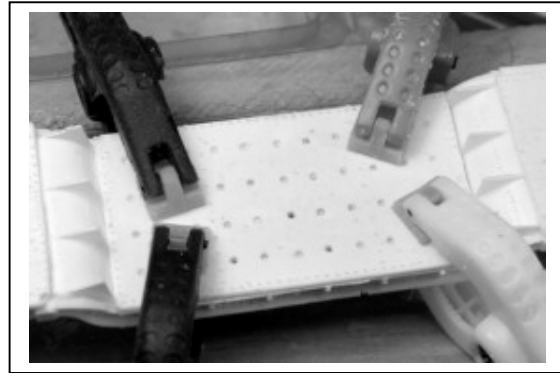
5 Add the Transition Spacers (8) as show. It may be necessary to file the Side Sills to get clearance. DO NOT CEMENT IN PLACE YET!



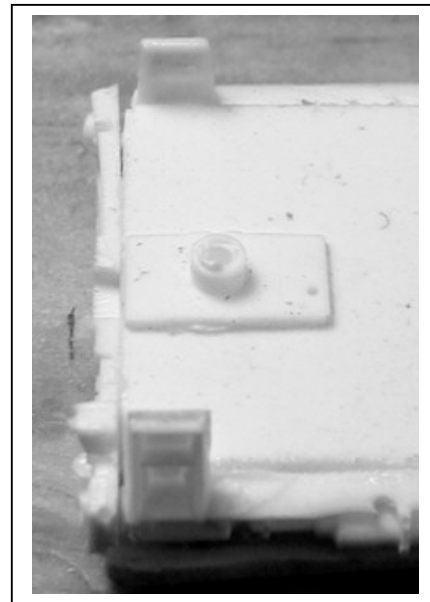
6 Position the End Deck (4) so that the hole for the Brake Staff is position at the end of the car. Cement to the End Block. Clamps as shown are suggested and available from Harbor Freight & Tool – a good, cheap addition to your tools.



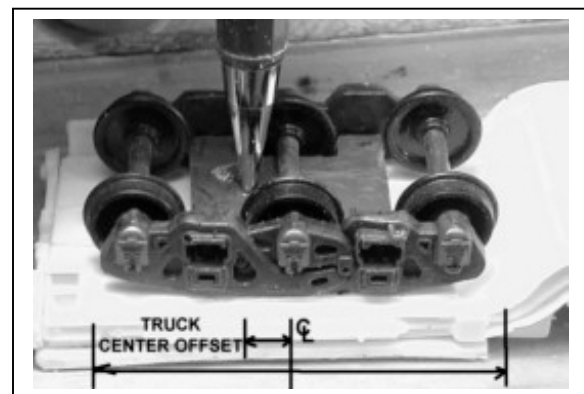
7 Cement the Center Deck (5) to the Center block and clamp as shown until set.



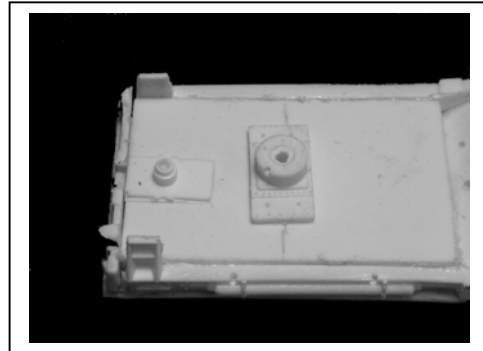
8 Cement the upper coupler pocket part to the End block. Note the longer end faces the center of the car.



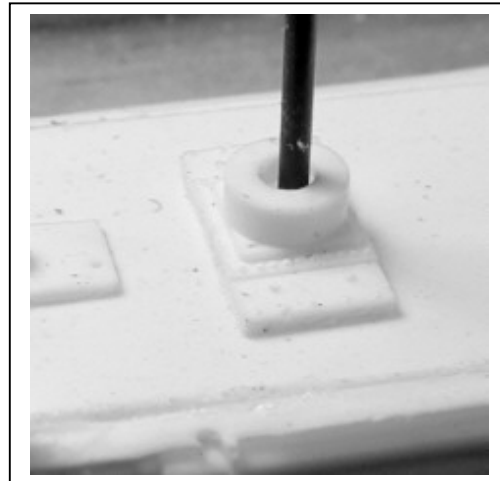
9 Set up your truck centers using a pencil as shown. Make sure the truck clears the end steps and the depressed section of the car. Drill a #50 hole through the End Block being careful not to drill completely through.



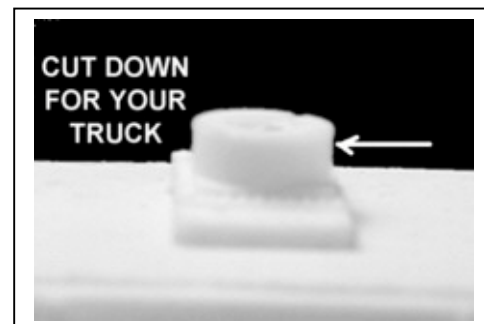
10 Drill a #50 hole in the center of the Truck Bolster (6).



11 Now slide the Truck Bolster in place aligned with the hole in the End Block using the smooth end of the #50 drill as a guide and cement the Truck Bolster to the End Block.



12 The boss on the Truck Bolster needs to be cut down to half if you use our trucks. Adjust accordingly, if necessary for other makes of trucks. Now tap for 2-56 threads the holes in the Truck Bolster and The Coupler Pocket – 4 places.



13 Add the Coupler Pocket Cover with the aid of the supplied 2-56 screw.



14 Add the Brake Wheel and the Brake Staff by drilling the marked hole location in the End Deck. You're now ready to paint.



PAINTING

- 1) If you followed the instructions for cleaning the parts before assembly, you are ready to paint. A primer such as Floquil's is recommended. Allow to dry 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. Dark colors can be diluted up to 50-50. Two 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 improved the color.
- 2) Overcoat entire car with Testor's Glosscoat prior to decaling. If you decal over the Glosscoat as soon as it is dry to the touch, decal adhesion is improved.