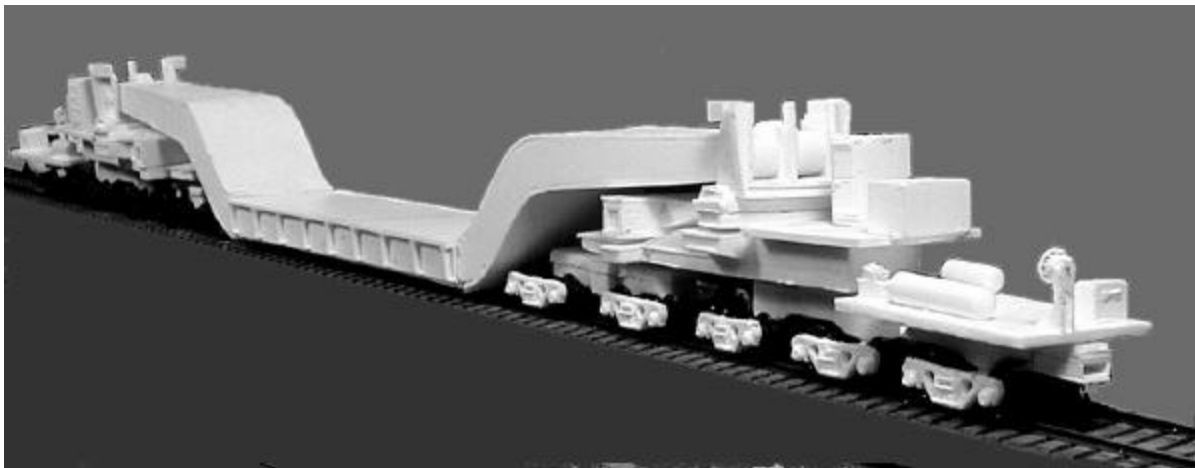


CONCEPT MODELS

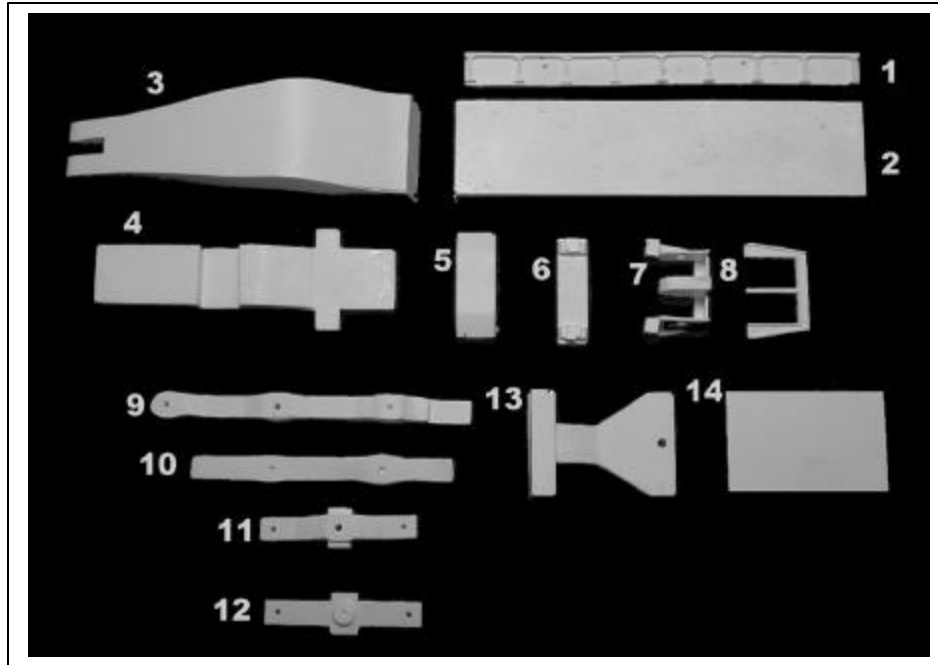
Web Address: <http://www.con-sys.com>
Email: concept_models@con-sys.com

8331 Sheep Ranch Rd.
Mountain Ranch, CA 95246



**INSTRUCTIONS FOR THE KASGRO KRL 204000-2
SPECIAL DEPRESSED CENTER FLAT CARS**

PARTS

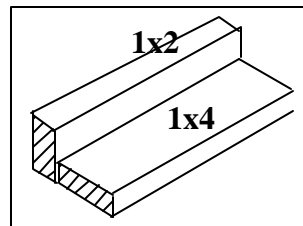


Item No.	DESCRIPTION	QTY.
1	Main Deck Trim	2
2	Main Deck Base	1
3	Lift Girder	2
4	Upper Body Bolster	2
5	Wing Brace	2
6	Hydraulic Mount	2
7	Main Lift Assy.	2
8	Main Lift Facing	2
9	End Truck Bolster Bottom	2
10	End Truck Bolster Top	2
11	Inboard Truck Bolster Bottom	2
12	Inboard Truck Bolster Top	2
13	Swing Yoke	2
14	Rear Deck	2
15	Top Deck - .080" styrene 9'6" s.f. x 11'0" s.f.	2
16	Parts Box	4
17	Control Cabinet	2

Item No.	DESCRIPTION	QTY.
	s.f = scale feet	.
	1/8" x 3'0" s.f. Tube	2
	1/8" x 11'6" s.f. Tube	2
	1/8" x 4' s.f. Tube	4
	3/16" x 3' s.f. Tube	4
	3/16" x 2-56 Mach. Screws	2
	1" x 2-56 Mach. Screws	2
	1/2" x 2-56 Mach. Screws	6
	3/8" x 2-56 Mach. Screws	8
	Coupler Pocket Cover	2
	Brake Stand	2
	Brake Wheel	2
	Small Pins	2
	Decals (set)	1
	Instructions	1
	Shim Washers	4
	1/8" I.D. Spacer Washers	6

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, etc.



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.

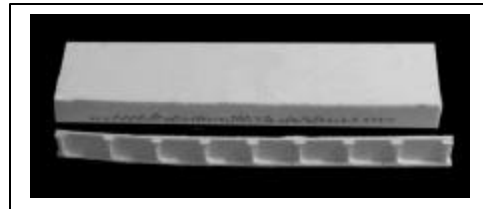
PREPARATION Wash the parts before assembling with a dish washing detergent such as “Dawn”. Rub lightly with a soft sponge.

Assembly

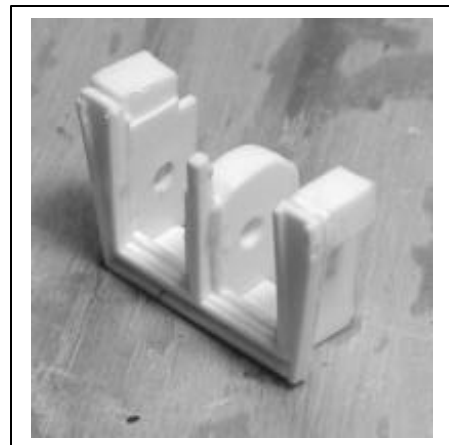
1 Use the “clear” drill for 2-56 screws to align the End Truck Bolster Top(10) and the End Truck Bolster Bottom (9). Align, glue, and clamp as shown. Make two. Do the same thing to the Inboard Truck Bolster Bottom (11) and the Inboard Truck Bolster Top (12). Make two.



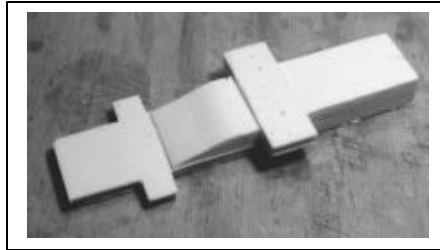
2 Glue The Main Deck Trim (1) to the Main Deck Base (2) as shown. It is suggested that a clamping arrangement similar to the illustration be used to get the trim anchored evenly.



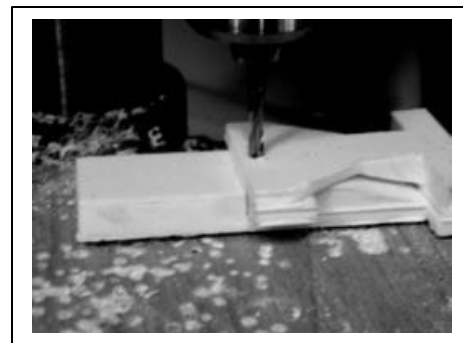
3 Glue the Main Lift Facing (8) to the Main Lift Assy. (7)



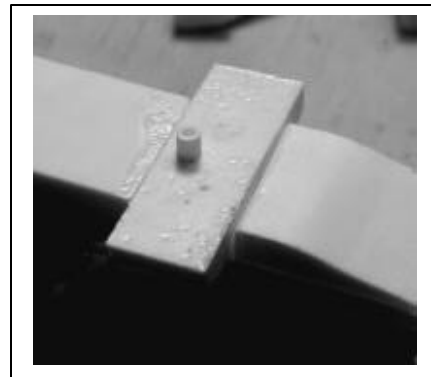
4 Glue the Wing Brace (5) to the Upper Body Bolster (4) as shown.



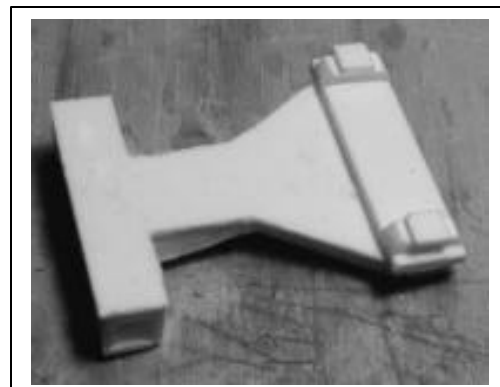
5 Use the Swing Yoke (13) to locate its pivot hole and drill with a 1/8" drill into the Upper Body Bolster assembly but do not drill all the way through.



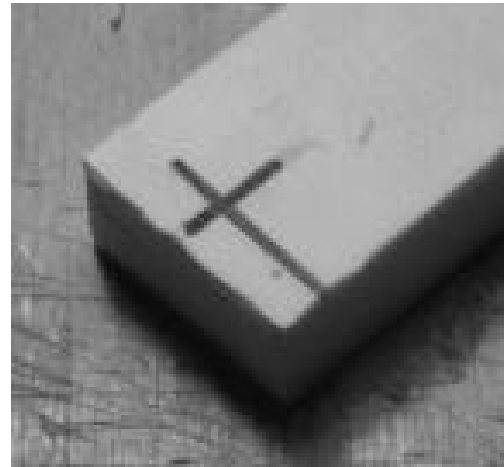
6 Add the 1/8" x 3" (s.f.) tube to the pivot hole. Use the Swing Yoke to determine the amount the tube should protrude. File down to almost flush with the Swing Yoke.



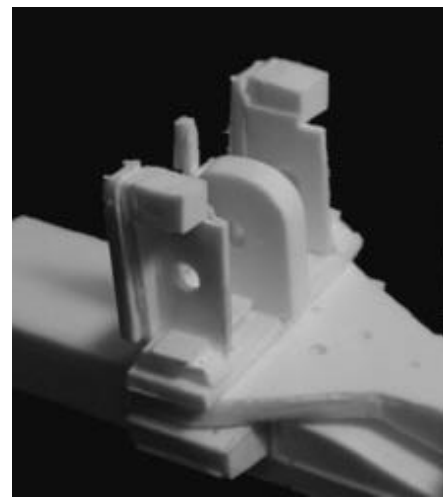
7 Glue the Hydraulic Mount (6) to the Swing Yoke (13) as shown. Try to keep cement out of the pivot hole.



8 Mark the bottom of the Upper Body Bolster assembly as shown. Drill and tap here for 2-56 screws to attach the truck bolsters.



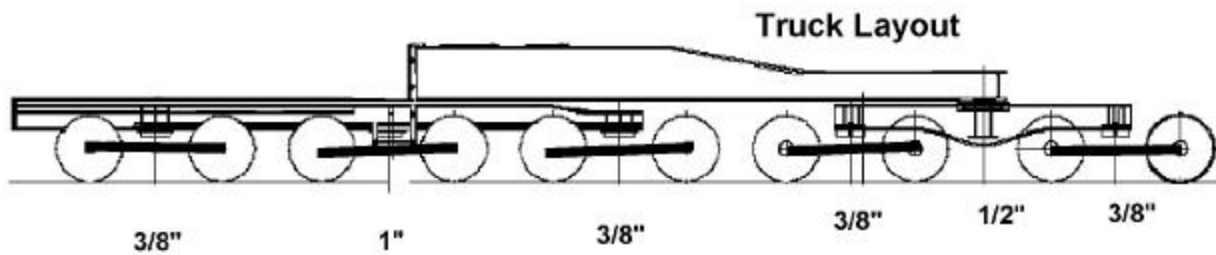
9 Cement the Lift Assembly to the Hydraulic mount on the Swing Yoke assembly.



10 Insert the 1/8" x 11'6" s.f. tube through the lift assembly and one of the Lift Girders (3). Set aside.

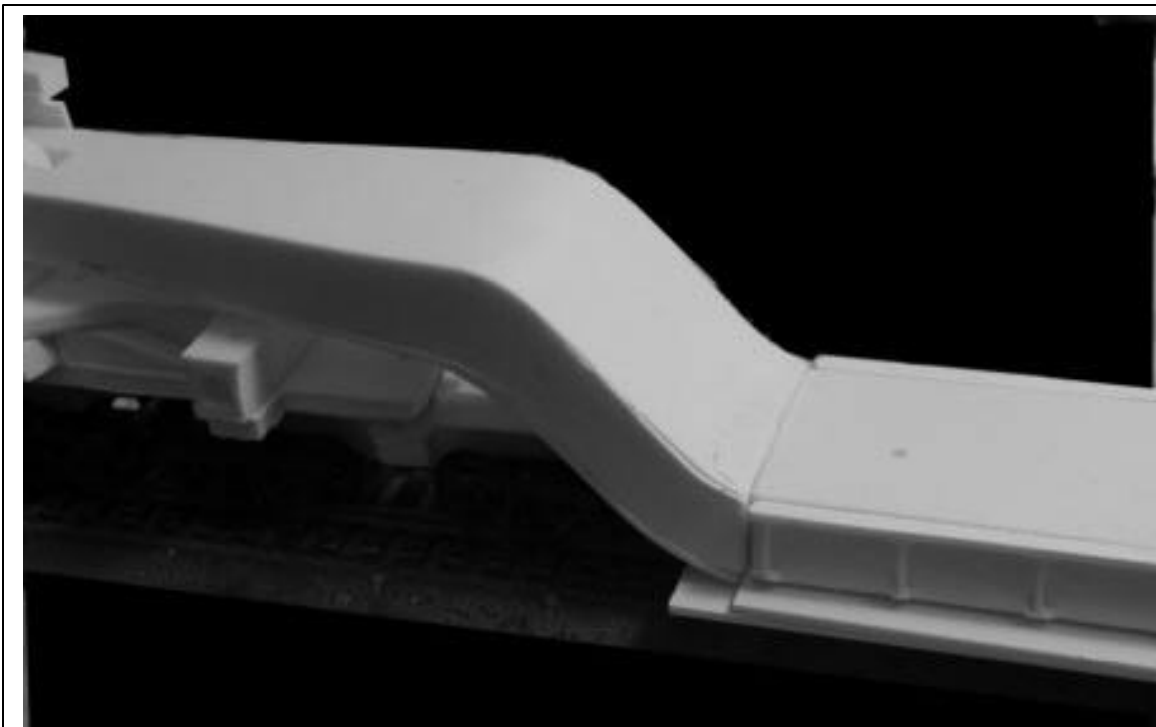


11 Assemble the Trucks and bolsters shown with 2-56 screws as shown. The center truck on the End Truck Bolster may have to be modified by enlarging the mounting hole to improve tracking on sharper curves. If necessary, use the shim washers on the other two trucks and allow the center truck to “float”.



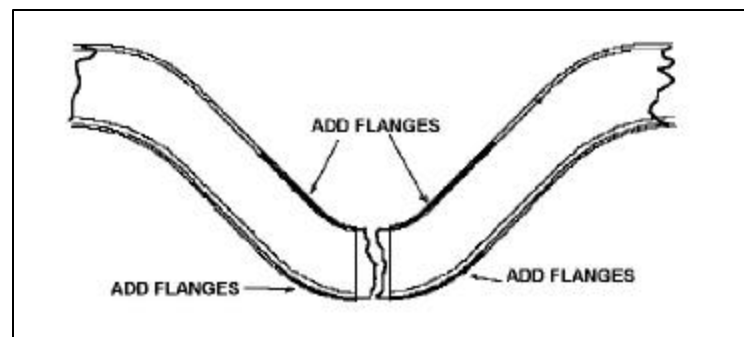
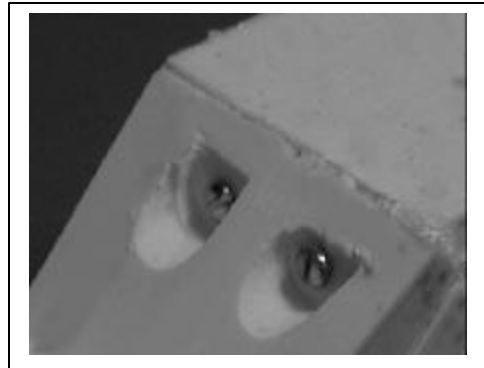
12 Set the bolster assembly on track as shown. Prop up the Main Deck with 2 sheets of .060" sheet styrene. Notice that the Lift Girder face is larger than the Main Deck. Using ACC cement, glue the Main Deck to the Lift Girder. **ALLOW GLUE TO COMPLETELY SET.** When the glue is completely set, turn over then fill any opening in the seam with ACC cement. Allow glue to harden before continuing.

Attach the other Lift Girder to the Main Deck as you did above/

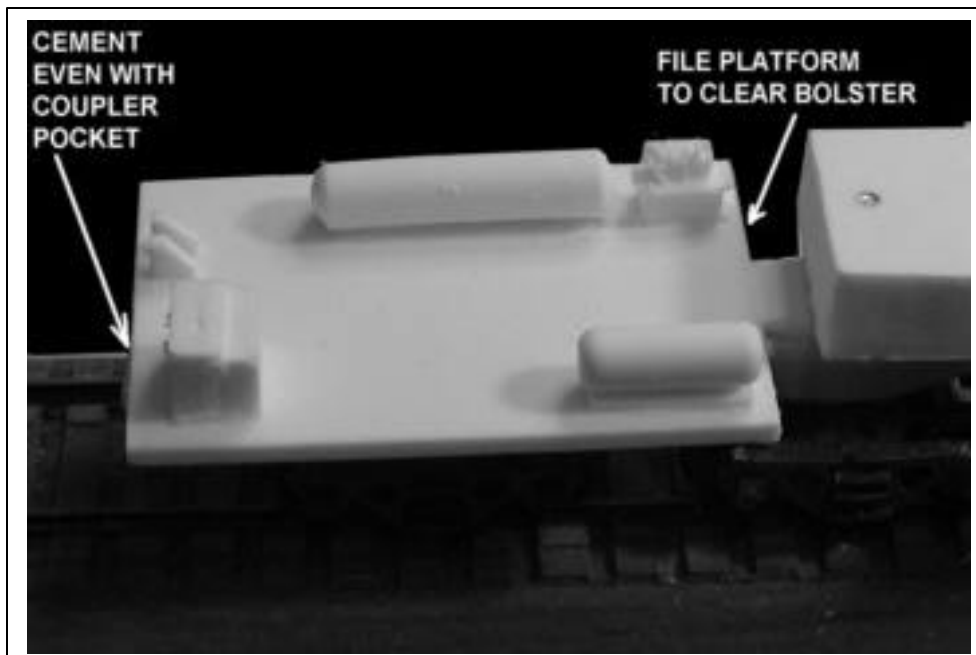


13 Use a motor tool to cut down the underside of the Lift Girder and then drill and tap for $\frac{1}{2}$ x 2-56 screws as show.

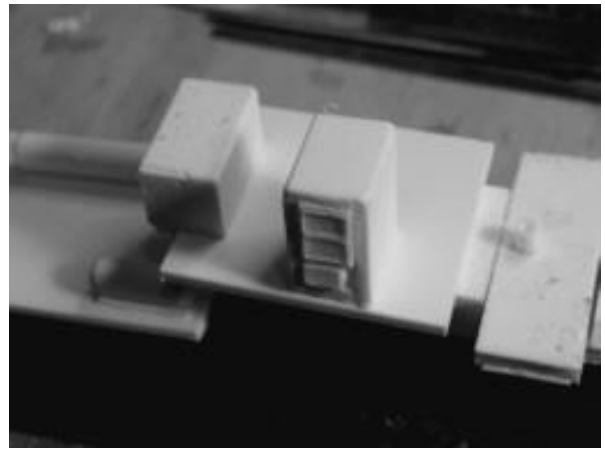
Add the flange extensions per diagram.
File down to match the deck flanges.



14 Glue the Rear Deck (14) to the assembled End Truck Bolster as shown.

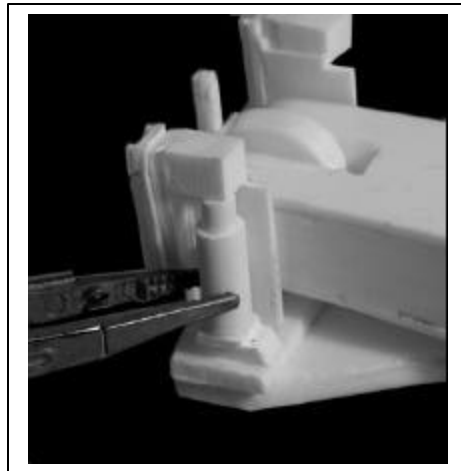


14 Install the Top Deck (15) leaving enough room for the Swing Yoke to pivot during curves. Install the Parts Box (16) to overhang the Top Deck. The little bracket hangs down and attaches to the edge of the top deck. Install the Control Cabinet (17) as shown.



15 At this point the model should be disassembled, painted and decaled. Be sure and paint the 3/16" x 3' s.f, hydraulic cylinder tubes to match the base color of the car. The 1/8" x 4' s.f. hydraulic ram tubes should be painted silver.

16 After the tubes have been painted they should be installed on the four mounts provided for this purpose. Use an adhesive such as GOO (Walthers) or Quik Grip (Wal-Mart) applied to the bottom of the cylinders. An adhesive is used to allow removal in the event the tube for the Lift Girders has to be removed. Touch up the paint to cover any adhesive. (We shot our pictures before painting to expedite the work.)



PAINTING

. Use a lacquer based primer such as floquil.

- 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.

Overcoat entire car with Testor's Glosscoat prior to decaling.

DECALING

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.
- 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.

- 4) Top coat the decals with Testor's Dullcote for best results.