

CONCEPT MODELS

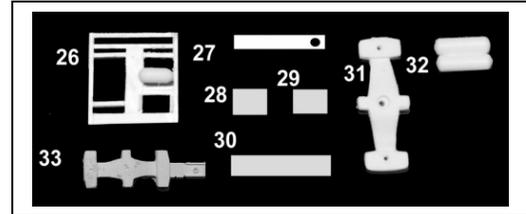
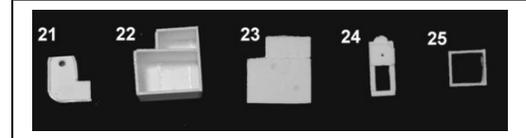
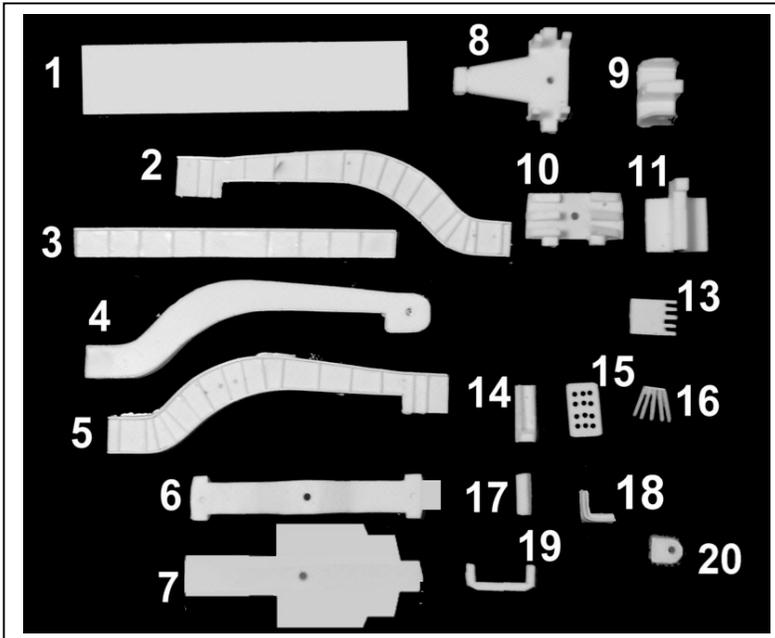
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8810 El Toro Way
Stockton, CA 95210



**INSTRUCTIONS FOR PRODUCT
KWUX 10 MONSTER DEPRESSED FLAT CAR KIT**

PARTS KWUX 10 DEPRESSED FLAT CAR



Item No.	Part No.	DESC.	QTY.
1	7030-1	Floor Core	1
2	7030-2	Left Girder Face	2
3	7030-3	Floor Fascia	2
4	7030-4	Girder Core	2
5	7030-5	Right Girder Face	2
6	7030-6	Span Bolster	2
7	7030-7	Span Bolster Top	2
8	7030-8	Yoke	2
9	7030-9	Lift Base	2
10	7030-10	Side Support	2
11	7030-11	Lift Back	2
13	7030-13	Lateral Bracket	2
14	7030-14	Hydraulic Shroud	4
15	7030-15	Hole Plate	4
16	7030-16	Stiffener	2
17	7030-17	Bracket Mount	2
18	7030-18	Shift Suppot Brkt.	4
19	7030-19	Shift Support	2
20	7030-20	Grab Ring Brkt	8
21	7030-21	Hyd.Sup. Brkt.	8

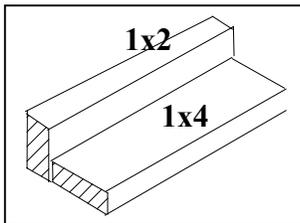
Item No.	Part No.	DESC.	QTY.
22	7030-22	Hyd. Cab.	2
23	7030-23	Hyd. Cab. Lid	2
24	7030-24	Brake Stand	2
25	7030-25	Step Brkt.	4
26	7030-26	End Platform	2
27	7030-27	Crane Brkt.	2
28	7030-28	Control Desk	2
29	7030-29	Desk Legs	2
30	7030-30	End Deck	2
31	6519-28	Center Bolster	2
32	7030-32	Tanks	2
33	6519-27	End Bolster	2
34		Coupler Covers	2

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.



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.

GENERIC PARTS

QT
Y.

3/16" Pan Hd. Screws	2
Brake Reservoir	2
Brake Valve	2
Small Pin	2
Brake Wheel	2
STYRENE PARTS	
1/8" tube 3'-0" – Center Pivot	2
1/8" Tube 8'-0" – Girder Pivot	2
1/8" Tube 8'6" – Crane Brkt.	2
1/8" Tube 4'-0" – Hyd. Piston	4
3/16" Tube 3'-0" – Hyd. Cylinder	4
1/2" Tube 2'-0" – Hyd. Shield	4
0.025 x 2" Rod for Hand Grab Brckt.	1
3/16" Tube 3'0" for deck Hydraulics	2
1/8" Tube 5'6" for deck Hydraulics	2
Decals (set)	1
Instructions	1

WARNING

Some parts may have lead encapsulated within them. Dispose of any lead shavings.

NOTE: This kit consists of resin castings and must be assembled with an ACC cement (not provided). 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

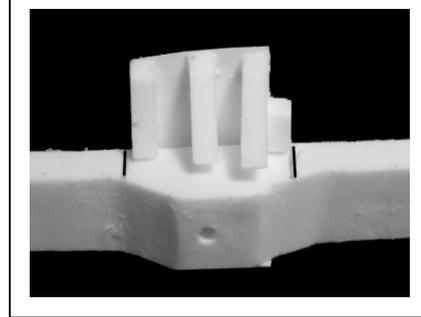
Preparation Wash the parts before assembling with a dish-washing detergent such as "Dawn". Rub lightly with a soft sponge.

Gluing with ACC Cements – USE WITH CARE

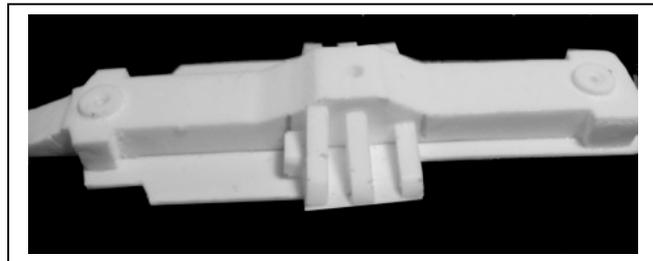
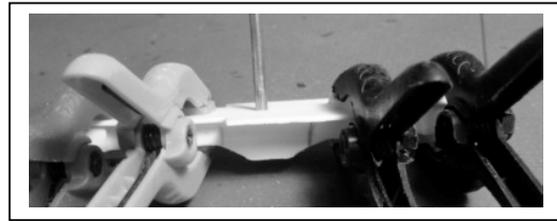
Work very carefully when positioning the parts for gluing. ACC cements adhere very quickly and **PERMANENTLY**. A general rule is to use the thin cements to glue long joints taking advantage of capillary action that makes the cement run the length of the seam. The thicker cement is suited to applying large area parts to each other. An accelerator can be applied. One technique is to apply the glue to one part and the accelerator to the other part to be joined.

ASSEMBLY

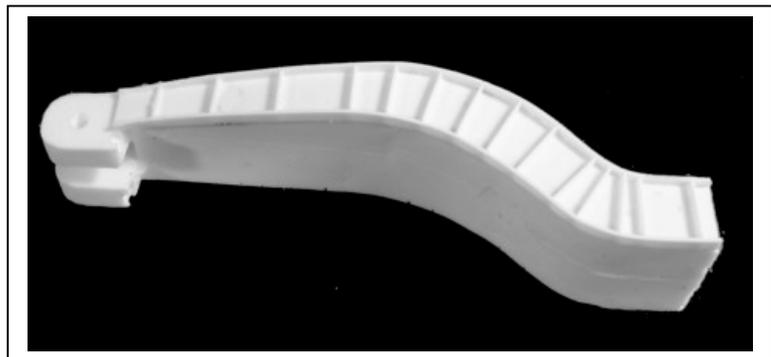
1 Using the web center hole of the Side Support (10) position (not glued) without buckling. The two small tails of the Side Support face the end of the Bolster assembly. Mark the location of the side supports and remove the assembly



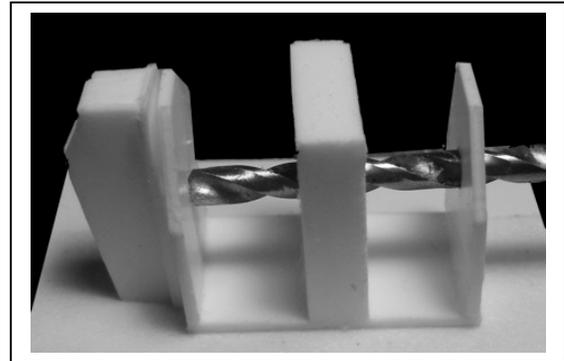
2 Cement the Span Bolster Top (7) to the Span Bolster (6) using an 1/8" brass rod or drill to center the parts. Cut the Side Supports (10) from the web and cement into the side of the Span Bolster and to the underside of the Span Bolster Top.



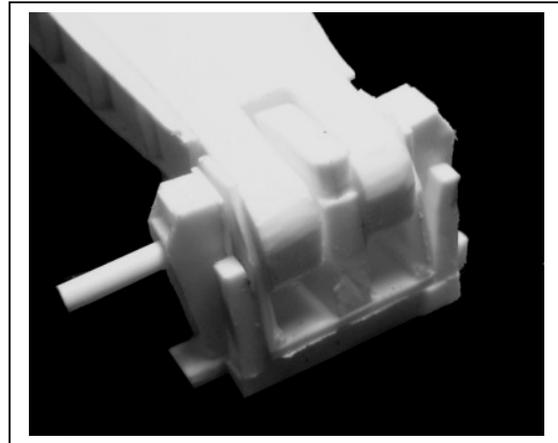
3 Trim off the end of the girder face and file the flanges on the first two sections to a taper. Cement the face sections to the girder cores as shown making sure the top surfaces are all even.



4 Drill an 1/8" hole centered using the Lift Base (9) for height in the Hydraulic Shrouds (14) as shown.



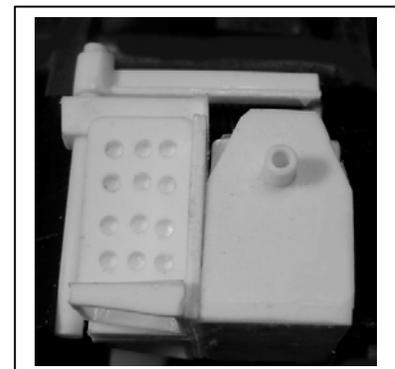
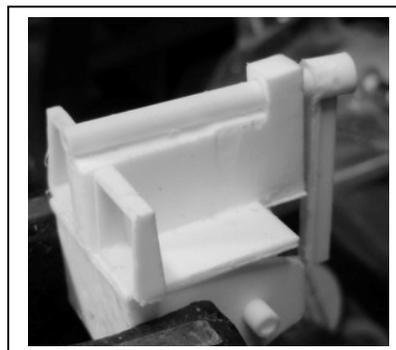
5 File the bottom edges on the Lift Base (9) to correct the bottom edges to square. Trial fit the Yoke (8), Lift Base (9), Hydraulic Shrouds, and the assembled girder section with the 9' 6" tube as shown. (This tube does not go here in the finished model but the 9' 6" tube is easier to handle for this test.) Grind down the curved end of the girder assembly to obtain sufficient clearance so that the girder assembly will be able to move up or down when traverse trackage.



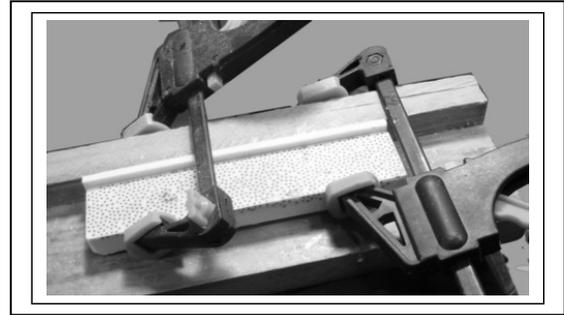
6 Disassemble the parts from the previous step. Cement the Lift Back (11) to the Lift Base (9) as shown. After the cement has set, re-assemble and check for fit. The ends of the girder assembly may need to be ground down. (Moto-tool works well for this.)

Add the Step Brackets ((25) to the Lift Back (11). The beveled side is down.

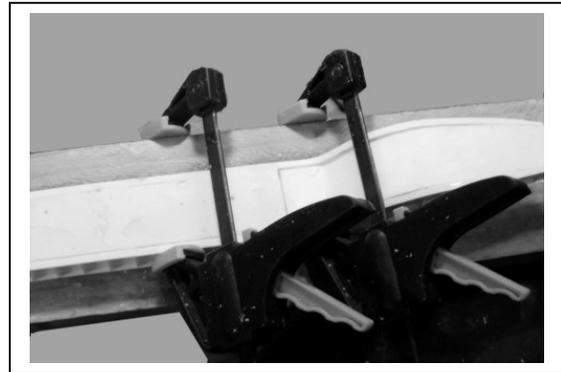
Add the Hole Plate (15) to the side of the Lift Back as shown.



7 Cement the Floor Fascia (3) to the sides of the Floor Core (1). The face side of the floor should be even with the top of the floor core. Do both sides the same and file the ends of the assembly square for the next step.



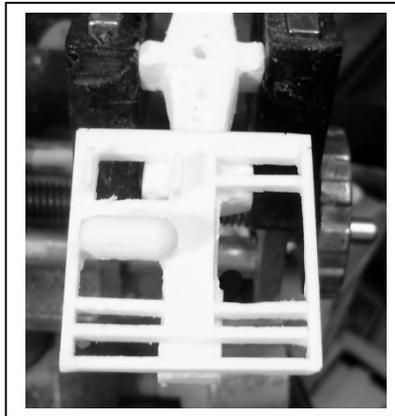
8 Make sure the girder assembly and the floor assembly are even. Cement the girder assembly to the floor assembly using a clamping arrangement as shown. I told you to build that fixture on page 3. 8-). Make the ends of the girder are the same height. Fill any gaps with ACC cement.



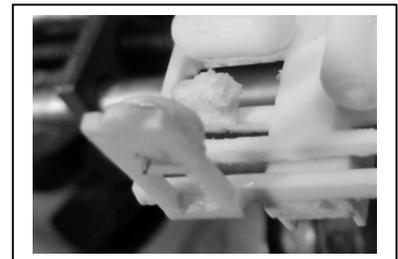
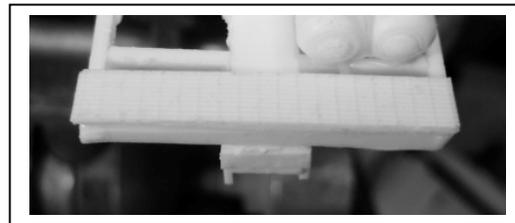
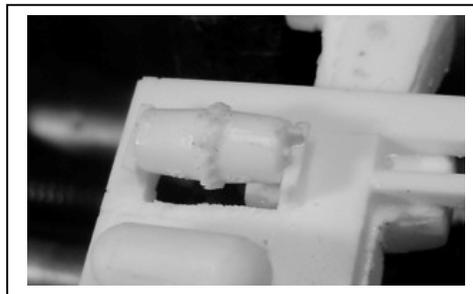
9 The finished girder and load platform assembly should now look like this.



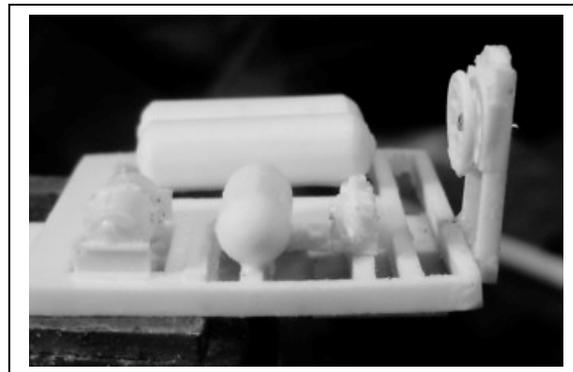
10 Cement the End Platform to the Rear Truck Bolster with the edge of the End Platform as shown..



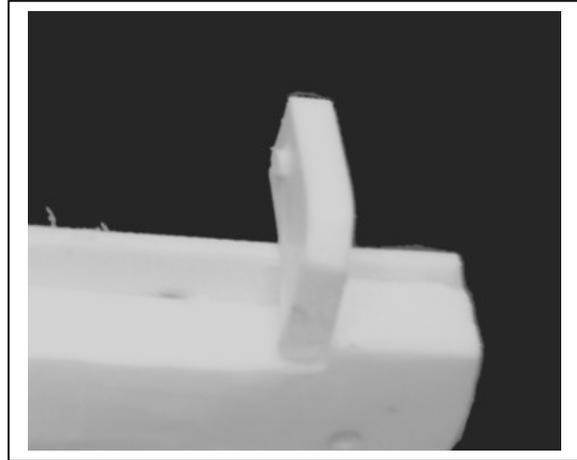
11 Add the Brake Reservoir to the End Platform Assembly. Add the tanks as shown. Add the End Platform Walkway. Add the brake Valve as shown. (Pictures slightly out of order.)



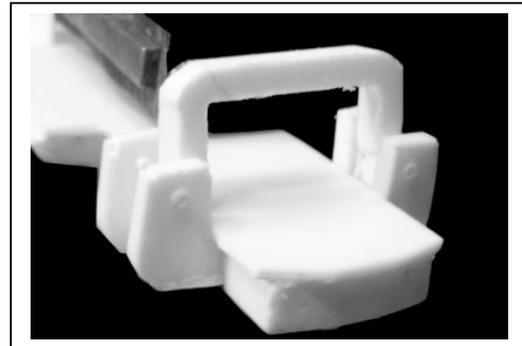
12 Use the small pin and attached the brake wheel to the brake stand. Note the position of the brake wheel on this design. Cement the Brake Stand to the end platform assembly.



13 Attach the Hydraulic Support Brackets as shown.



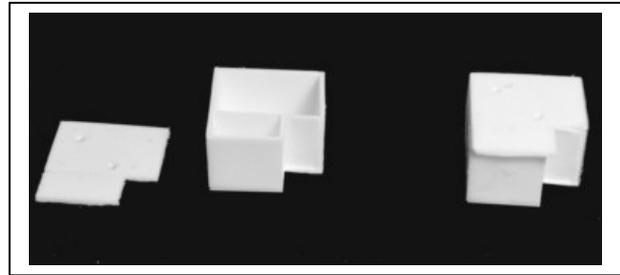
14 Use the Shift Support (19) to set the position of the Shift Brackets (18). File down so the brackets will match the Shift Support when installed by cementing between the Hydraulic Support Brackets (21).



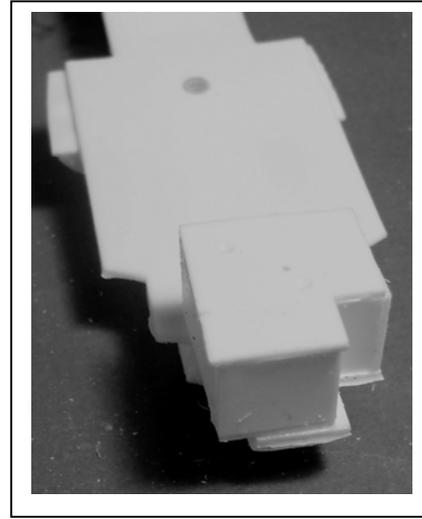
15 The brackets are cemented in this position.



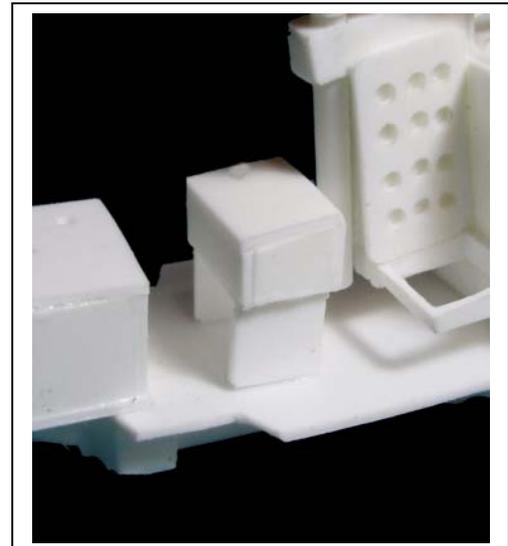
16 Cement the Hyd. Cab. Lid (23) to the Hyd. Cab. (22)



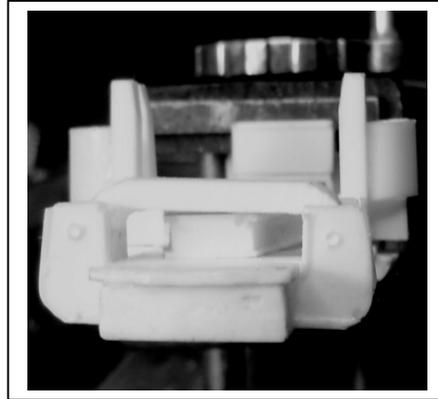
17 Mount the assembled Hyd. Cab at the rear of the Span Bolster as shown. The two indentations in the roof are the power plant side and the assembly is positioned so that part is indexed to the center of the car.



18 Cement the Control Desk (28) to the Desk Legs (29) with the back of the top flush with the back of the legs.

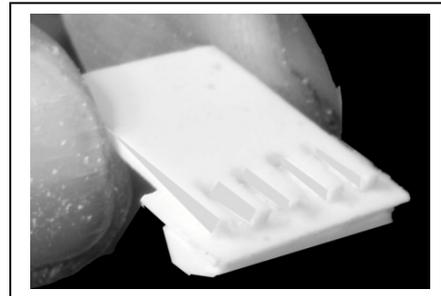


19 Trim the Shift Support (19) to just clear the Yoke (8). Cut the pointed end of the Yoke to allow the Yoke to swivel sufficiently for the curves on your layout. You may add the deck hydraulic cylinders now. Make sure the yoke is trimmed to allow movement.



20 NOTE: This is where the model differs from the prototype to accommodate the curves that scale out to be much sharper than the prototype.

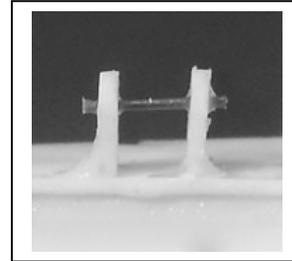
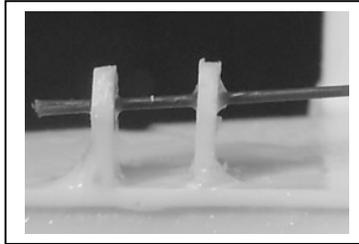
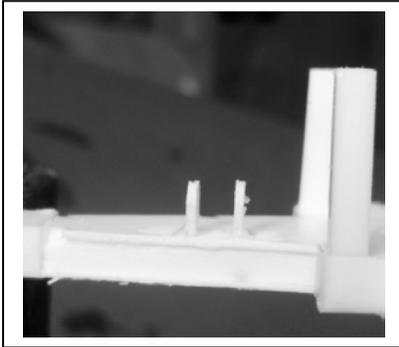
21 Install the Lateral Bracket (13) to the Bracket Mount (17) with the long edge up as shown.



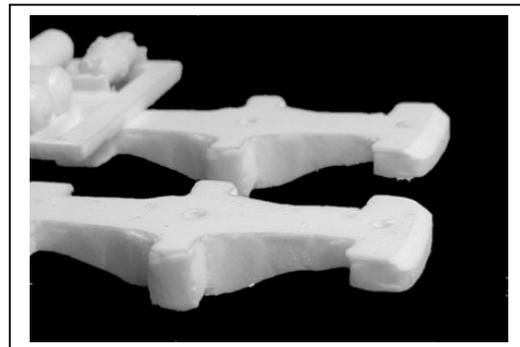
22 Bend the Lateral Bracket (13) as shown. If it seems to brittle, heat for 30 seconds in a microwave. Cement to the Bracket Mount (17) as shown.



23 The Hand Grip Rings (may be installed as shown. Cement the hand grab brackets as shown. Then run a piece of .020" rod through the holes. Apply ACC cement by transferring very small amounts with the sharp point of a pin.



24 Assembly the trucks to the truck bolsters and check for clearance. Bevel the edges of the bolsters as shown. Remove material from the main span bolster to provide clearance. After making sure there is sufficient wheel clearance, you are ready to paint.



PAINTING

- 1) Disassemble the car for painting. Do not paint any of the 1/8" tubes used for pivots. The 1/8" tube for the lifting hydraulics should be painted silver, the 3/16 sleeve; blue like the rest of the car.
- 2) If you followed the instructions for cleaning the parts before assembly, you are ready to paint. A primer such as Ace Hardware's Rust Stop enamel diluted three parts lacquer thinner to one part paint is recommended. Allow to dry before proceeding with any of the color coats. White on top of primer is recommended. It improves the color. I used Ace's Harbor Blue with a little bit of white to fade down the color just slightly. I also dilute their paint 2 parts lacquer thinner to one part paint.
- 3) If you did not use the recommend paints which are glossy, overcoat entire car with Testor's Glosscote prior to decaling. If you decal over the Glosscote as soon as it is dry to the touch, decal adhesion is improved.

DECALING

NOTE: The decals provided are a **very thin** film decal film. Success with these decals depends on following these instructions. 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.

- 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 slide off the backing..
- 3) Slide the decal directly off of the backing onto the wetted surface with a small brush or tweezers. Position with the brush. Remove excess water with a tissue.
- 4) A decal setting solution is recommended for best adhesion.
- 5) Top coat the decals with Testor's Dullcote for best results.



25 Reassemble the car components to the lift girder bridge as shown in step 5. After installing the trucks and assembling the truck bolsters to the span bolsters, add the yoke assembly to the bolsters assembly using the short 1/8 tube for this. The main girder assembly should now be installed between the two bolster assemblies. Once the girder assembly is seated with the Hydraulic Shrouds (14) installed, slip the silver 1/8" tubes into the 3/16" hydraulic cylinders. Cement the hydraulic assemblies into the hydraulic shrouds an adhesive that may permit removal if necessary. Walthers GOO (lightly) will work. Add the Crane Brkt (27). This should complete basic assembly.