

## ASSEMBLY INSTRUCTIONS

### TOOLS AND MATERIALS REQUIRED

Modeler's Knife, Fine Toothed Razor Saw, end or side-cutting Pliers (flush cutting if possible), Tweezers, #73 Drill and Pin Vise or Drilling Apparatus, Styrene Cement and Brush, Cyanacrylate type glue, 4 inches of .020" Wire, Painting Apparatus, Paint, Decals, Bettendorf Trucks and Couplers.

### GENERAL NOTES:

Please read through all instructions before beginning project. Clean flash from parts before removing parts from sprues. Remove parts from sprues as needed. There are spares of some parts. Cut, **DO NOT BREAK**, parts from sprues.

1. Cement upper letter boards to sides with thin edge lip down over ends of side bracing. Assemble sides and ends into roof and set aside to dry.
2. Mark off and trim floor edges to fit door openings. This is easily done with side or end-cutting pliers, with final clean-up using a flat file or scraping with knife. Slight fitting of floor ends may be required.
3. Install couplers (not included) and cement pocket covers into place. The pockets accept K.D. #5 couplers.
4. To install trucks (not included) using truck pins, drive pins through truck bolsters into snaps on frame like small nails. Trucks can then be snapped on or off. If truck pins are used, remove truck mount bosses from floor before cementing frame to floor. If trucks are to be installed with #2 screws (not included), **DO NOT REMOVE** truck mount bosses from floor.
5. Cement floor to frame. Cement triple valve to frame.
6. Install frame and floor assembly into car body assembly by spreading car sides slightly to allow floor boards to snap through door openings. Floor and frame can remain removable for addition of weight, loads and interior detailing.
7. Install ladders, data boards, roof walk and roof platforms. If plastic grab irons are to be used (some modelers will prefer to use ones formed of wire), enlarge holes with #73 drill. Install grab irons and roof walk end braces.
8. Looking at bottom of car, note that the brake actuating cylinder "points" toward one end of car. Install brake wheel platform and brake wheel on that end. On the opposite end, install the end loading hatch (these were optional on the real cars).
9. Cement door top boards to doors. Cut 2 straight pieces of .020" wire to 1 1/4 inches. Bend 1/32" of one end 90° and thread door assembly onto wire. Lay wire with door assembly into trunions on lower edge of car side and bend other end of wire to fit. Trim wire ends so wire can rest into trunions and cement wire into trunions using cyanacrylate type glue. Let dry, tip door up and snap door top under door guide on roof. Doors should slide.
10. Remove floor and frame assembly, paint and decal car body. Paint and weather floor and frame separately. Champ Decal #HC-112 provides the correct lettering for the car that this model is based on. These cars were built in 1936 and remained in service into the early 1970's. The cars were painted tuscan red with black under frames.

