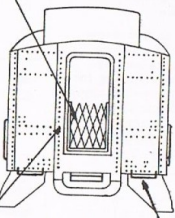
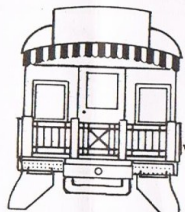


*C-293 Tailgate (optional)



*Goo diaphragm bellows to striker plate, then to car end, striker plate out.

*S-120 Grab irons



*R-3011 Hand rails

*Indicates (a) Super Details parts (or) (b) Optional Accessories



Round roof as shown

WATER TANK
fill 3/32" flat cement to floor
filler (pin head)

Car names were in "Great" series
Great Lakes, Great Plains (GN Oriental Limited)
Great Barrington (New Haven)
Great Falls, Great Divide (NYC 20th Century Ltd)
Great Spirit (Pullman - later sold to Monon)

9162

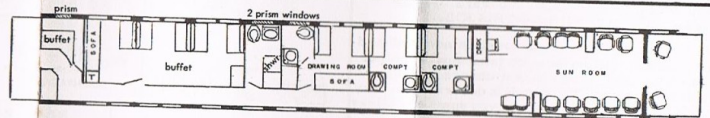
OBSERVATION

2 Compt, 1 Draw Rm, Buffet, Lounge

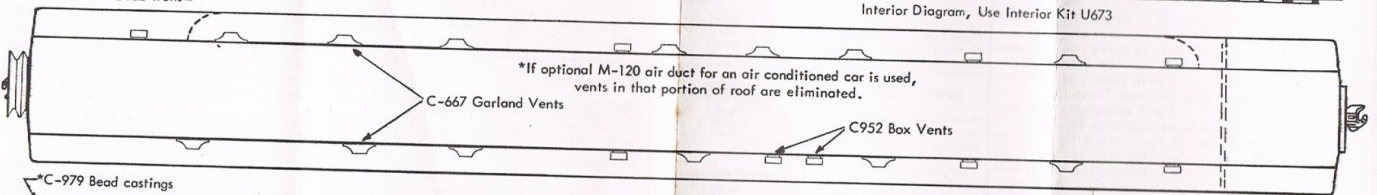
Wm K **WALTHERS** INC
4050 N. 34 ST. MILWAUKEE, WIS. 53216

Scale--1/8" = 1'-0"

74-0602



Interior Diagram, Use Interior Kit U673

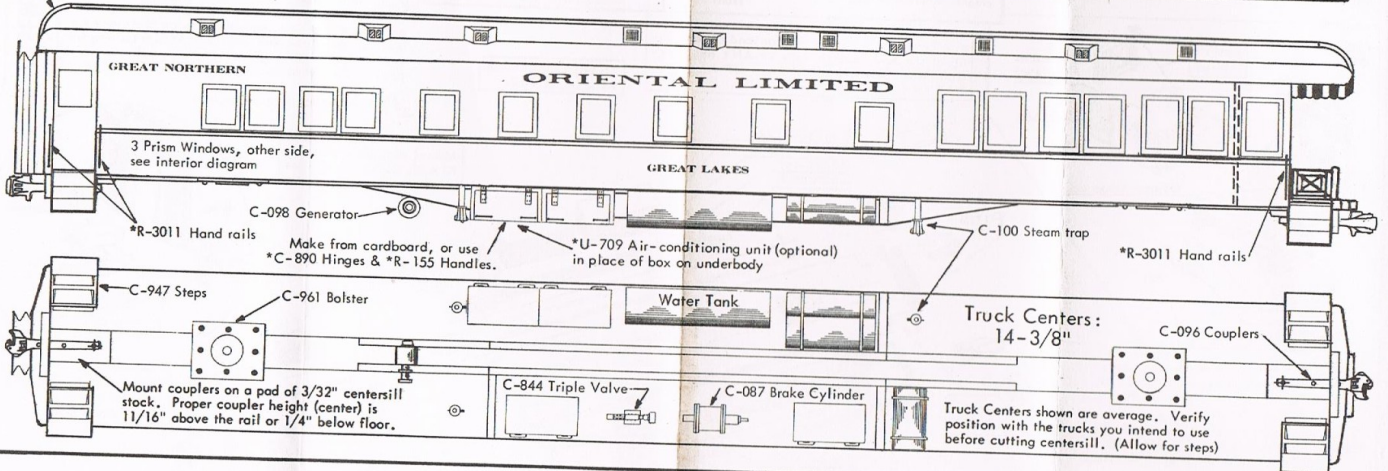


*If optional M-120 air duct for an air conditioned car is used, vents in that portion of roof are eliminated.

C-667 Garland Vents

C952 Box Vents

*C-979 Bead castings



3 Prism Windows, other side, see interior diagram

*R-3011 Hand rails

C-098 Generator
Make from cardboard, or use *C-890 Hinges & *R-155 Handles.

*U-709 Air-conditioning unit (optional) in place of box on underbody

C-100 Steam trap

*R-3011 Hand rails

C-947 Steps

C-961 Bolster

Water Tank

Truck Centers: 14-3/8"

C-096 Couplers

Mount couplers on a pad of 3/32" centersill stock. Proper coupler height (center) is 11/16" above the rail or 1/4" below floor.

C-844 Triple Valve

C-087 Brake Cylinder

Truck Centers shown are average. Verify position with the trucks you intend to use before cutting centersill. (Allow for steps)

Underframe Assembly Detail

Illustrated in one of our...

HEY, HERE'S SOMETHING NEW!

One of the really new features of this kit is the method of cementing the sides to the body. BUT, you need a cement that will hold wood to metal: one that will NOT come loose in a damp basement, a cement that will NOT crack even if the model is stored in an attic where the temperature may change rapidly from sub-zero to plus 120°. **GOO WILL DO THIS JOB.**

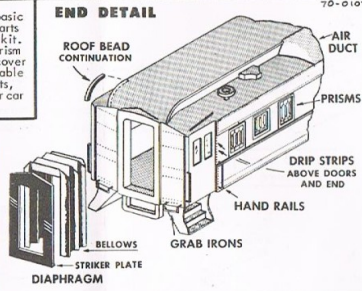
We have tested Goo continuously since 1949 and we **KNOW** it will do this job (and most any other cementing job). Don't take a chance with an ordinary cement. Your models deserve Goo. Try it. Give Goo a chance to show you some new tricks.

FOLLOW DIRECTIONS. It is important and to your advantage to coat both surfaces with Goo and let dry for 2-3 minutes as it says on the tube. Or, if you prefer, you may use the **TRANSFER METHOD.** Coat one part with Goo, press into place and remove. Goo has now "transferred" to the other surface. **WAIT 2-3 minutes** while the excess solvent evaporates and tack builds up, then press into place for final assembly. You'll be amazed at the difference this simple procedure makes in the speed with which your joints set and the ease with which your models Goo together.

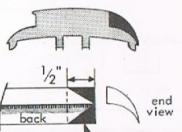


SUPER DETAILS To keep basic kit cost low, we packed super detail parts (marked * or "optional") in a separate kit. Included are: hand rails, grab irons, prism windows, guard chain, tailgates, box cover detail, roof bead castings. Also available are accessories such as interiors, lights, markers, air conditioners to make your car a real show piece. Consult catalog.

END DETAIL



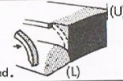
AIR DUCT
Used on roof of air conditioned car in place of individual vents.



Cut off shaded area (both ends) CAREFUL not to break feather edge. Shape front or top surface, sand smooth. Fit to roof (remove roof beading). See end illustration for finished view.

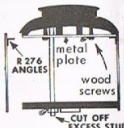
ROOF ROUNDING

Shape lower monitor (L) Make curved bead from stripwood (or use *C979 cast bead). Fit to roof. Shape upper monitor (U) to match bead.



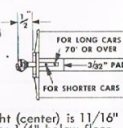
REMOVABLE ROOF

A removable roof is desirable when interiors or lighting are planned. *UJ50 removable roofkit makes this easy, provides electrical connection to trucks. *R276 metal angles (cemented or soldered) will reinforce sides.



COUPLERS

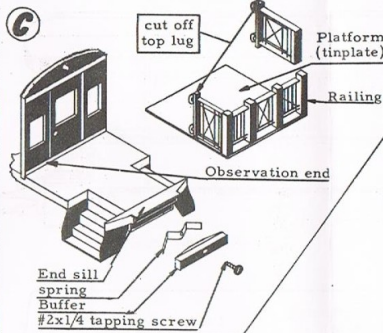
Mount couplers on 3/32" pad with #2 x 3/8 screw. For short radius curves, increase 1/2" dimension.



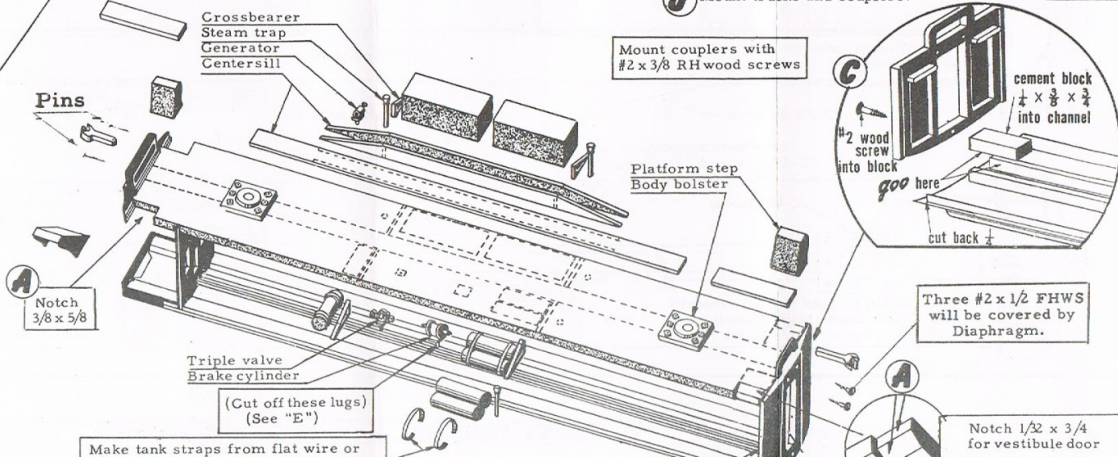
Proper height (center) is 11/16" above rail or 1/4" below floor

IMPORTANT: These General Instructions are designed to show the method of assembling the body and details on ANY observation car. **CHECK LOCATION OF ALL PARTS ON YOUR CAR PLANS.**

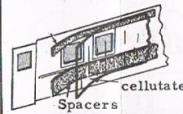
Mount trucks with #4 x 1/2" RHWS.



- A** Notch floor to provide clearance for vestibule doors and platform steps. If the interior is to be detailed, now is the time.
- B** Clean flash from all castings. Fasten optional super detail parts to ends if desired. (See note on "super details.")
- C** Fasten vestibule end to floor and roof, observ. end sill to floor, and railing to platform. Cement platform to floor.
- D** Locate truck centers and Goo diecast body bolsters in place. Cut centersill



E Complete the underbody details with both standard and optional parts, scaling any needed dimensions from the plan.



Smooth window "glass" is obtained by compensating for embossed frames with cardboard spacers.

NOTE: Spacers and cellulose must be above floor and below roof (or angles). Trim if necessary.

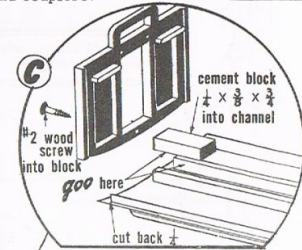
F Prepare sides. If the optional hand rails are desired, drill holes and cement or solder in place. Check sides against body for fit and then paint. When dry, Goo cardboard window spacers to inside of car side, then Goo transparent window material to the spacers. (Be sure this does not interfere with the details installed under "Removable roof".)

G Prepare the roof, installing details with Goo as shown on the plans, and rounding upper and lower monitors with razor blade, file and sandpaper to contour shown in plan.

H Paint the body, except do not paint the edges of the floor and roof where the sides will be cemented in place.

I Fasten sides to body with Goo as follows: Coat the edge of the floor and roof with Goo and press the sides in place. Remove the sides and allow the Goo, which is now on the sides as well as the floor and roof, (or angles) to dry for two minutes. Then press the sides firmly in place. The joint will set very quickly this way.

J Mount trucks and couplers.



Three #2 x 1/2 FHWS will be covered by Diaphragm.

Notch 1/32 x 3/4 for vestibule door