

# ASSEMBLY INSTRUCTIONS FOR "S" GAGE 40' - 50 TON STEEL BOX CAR

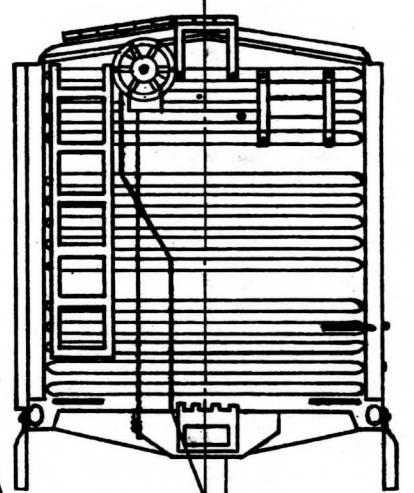
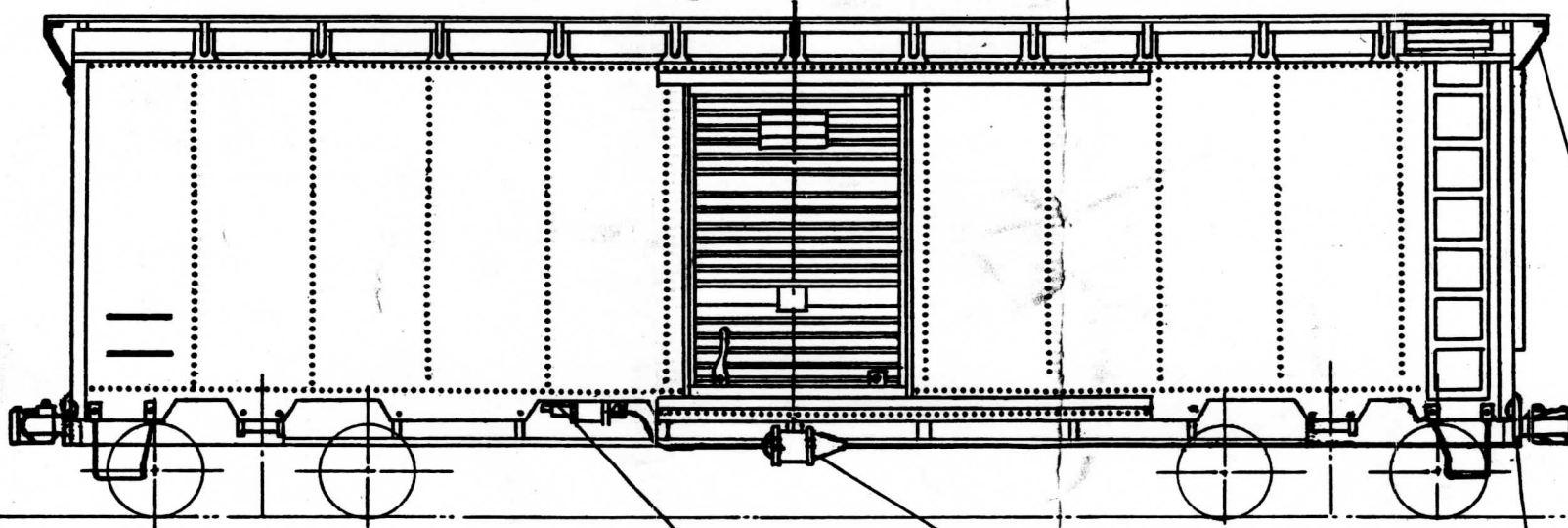
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## MIDGAGE MODELS, INC.

P. O. BOX 1044

PORTSMOUTH, R. I.

Study Drawings and instructions before starting to assemble car.



#2 Wood screw holds combination bolster and coupler pocket, and coupler, in place. If necessary file head to clear truck axle

Trim Bottom Edge of Side To This Line

Mount air cylinder on block, built up from 1/16" left-over frame rib stock, to position as shown

Fasten Roof Walk End Braces with Escutcheon Pins and cement to underside of Roof Walk

THESE VIEWS ACTUAL SIZE

Notch Coupler Pocket For Air Line

This Car is Modeled after a Basic AAR design. Slight changes in arrangements of hardware and fittings may be desirable to adapt it for a specific road of your choice.

Form piping details and brake rods from wire. Cut levers from brass strip stock.

Bend roof grab irons from wire. Cement or solder to corner support leg

Ladders on sides and ends at opposite corners. Cement in place or locate escutcheon pin under top and bottom rung and solder to head of pin

1/16" Square Support Strips

ROLLED ROOF RIB

3/32" Filler Strip

1/8" Filler Strip

Scribe Floor

Drill Holes For End Support Bosses

WOOD SIDE

METAL SIDE

CENTER BEAM

2" Door Slides

Escutcheon Pins

3/8" Staples

Fasten Sill Steps with escutcheon pins. Cut off extra length of pin and use drop of cement on back to prevent working loose.

1/4" Staples

Cut off coupler shank and drill with 3/32 Drill

1. Assemble Wood Roof, Ends & Floor. Scribe floor in door area to simulate planking.
2. Flatten 1/8" of each end of Roof Ribs, & locate in proper position on roof, crimping ends under roof eave.
3. Attach wood sides, inserting 3/32" & 1/8" filler strips above & below Door Opening. Allow slight space between roof eave & wood side to accommodate flange on metal side.
4. Trim bottom edge of metal sides as shown on full side view, using drawing as a pattern. Attach metal sides. Side flange on Metal ends will hold end of sides against wood body. Escutcheon pins used to attach sill steps & "Z" door slides will hold side to body.

5. Attach Center Beam, & Support Ribs, Bolsters & Air Brake Equipment. Trim Wood Side to match bottom edge of Metal Side.
6. Attach Roof Walk & Roof Walk End Braces. Make Roof Platforms from extra Roof Walk Stock. Attach balance of hardware & fittings, locating as shown on drawings.
7. Assemble and install trucks, being sure there is no interference with brake rigging or air lines.
8. Paint, (spray if possible) & after thoroughly drying, letter to suit prototype you are modeling, using a lettering guide or photograph for proper numbering & locating of heralds, etc.