

SUNSHINE MODELS

Tri-dek Auto Rack

This kit includes all the necessary material to construct a very fine model of a triple deck auto rack. The kit is composed entirely of stripwood plus the necessary castings to complete the model. The 8 widest wood strips and the grooved center sill are cut to the correct length. The other material is longer than necessary so if there is any damage to the ends in shipping or packaging the material will not be ruined. For correct placement of most parts and description of sizes use the enlarged cross sectional drawing. Since the car is quite long do all building on a perfectly flat surface to insure that the car will be square when completed.

Underbody:

Begin by gluing the two $1/32''$ x $13/16''$ strips (Q) edge to edge followed by the "sliding" center sill (M) on the center line of the two and equally distant from both ends. Now add the two side sills (J) which must be cut the same length as the deck. The outer center sill is made of two $1/16''$ x $3/16''$ strips (K), capped with the two $1/32''$ x $3/32''$ pieces (L). Cut 4 $1/16''$ x $3/16''$ end sills to be glued between parts (J) & (K) and flush with the ends of the deck. Install the 4 I beams (H) the full length of the car.

At the five points marked AA on the bottom drawing add the $5/64''$ channels (I) which should face outward. The four points BB are built using a cross bearer (P) cut from $1/32''$ x $1/4''$ material, a cap of $1/32''$ x $3/32''$ (O), and a sill retainer (N) of $3/32''$ x $3/32''$ wood.

The coupler mounting assembly is built as follows. Kadec Mk-5&10 couplers are recommended for the car. Glue two $5/32''$ angles and two $1/32''$ x $5/16''$ strips, all $1\ 1/8''$ long, together as in the drawing checking to make sure that the plastic coupler draft gear housing slips snugly inside. The screw mounting lugs are easily cut off with a knife beforehand. Fit the coupler together and epoxy into the wood sleeve. The whole assembly can now be firmly glued to the floor, inside center sill, and pieces K.

Upper Decks:

A $.04''$ x $5/16''$ strip is glued on top of the floor the full length of the car (G). The two upper decks are identical and should both be built now using two $1/2''$ and one $3/4''$ wide strips. Overlap them evenly so that the total width is $1\ 5/8''$. Add 16 equally spaced strips (D) $.02''$ x $3/64''$ under each upper deck.

The four $3/32''$ zeers are glued flush along the sides of both decks (B). Note that on the middle deck only the zeers must be cut away for the vertical hat sections. See enlarged drawing. Now cut 20 $1/8''$ Hat section $2\ 1/4''$ long. Since the lower deck was built on a smooth surface it is perfectly flat, and so if the 20 vertical posts are cut accurately the upper deck will not be able to get out of line.

Glue the four corner posts on first making sure that the middle deck is in proper position. Then go to the middle ones . The rest are easily added once the decks are seen to be level.

There are 8 diagonal braces which are cut from 3/32" channel which can now be added.

Small Details:

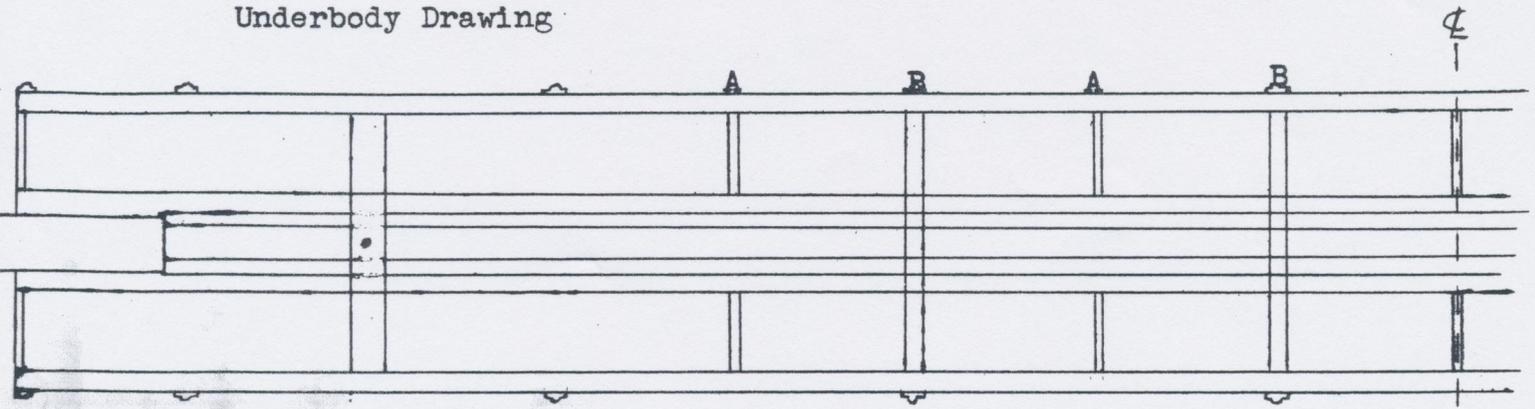
- 1) The six bridges are constructed of 1/32" x 1/4" and 3/64" angle material as shown in the small view. The bracing on the bottom is 3/64" x .02". Each bridge is 1-1/8" long and may now be glued in place as shown on the end drawing.
- 2) The ladders are each 2 3/16" long and are made by soldering an extension on to the normal size ladder.
- 3) The four steps are secured by the small escutcheon pins supplied.
- 4) The two large nameboards are precut and applied where shown after painting the back sides first.
- 5) At the base of each vertical hat section a small T brace is glued as shown on the end cross section. (F)
- 6) 1/16" x 3/16" material is used to build up the truck mounting bolsters as shown on the underbody drawing.
- 7) The railings are made from the wire included in the kit. Measure the correct spacing for the posts on a flat work bench and tape the wire posts in the correct position. Now the long railing can be laid next to them and all can be quickly soldered.
- 7) Paint the car yellow and add the decals as shown on the side view.



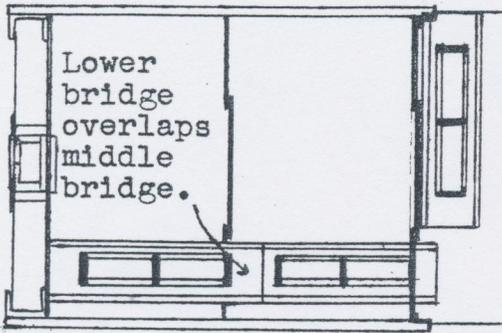
Coupler Assembly

May be inverted for proper coupler height.

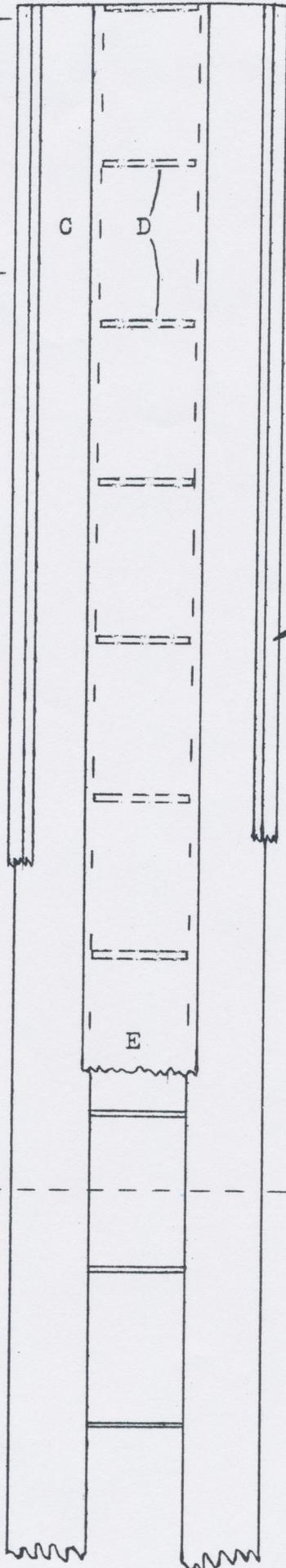
Underbody Drawing



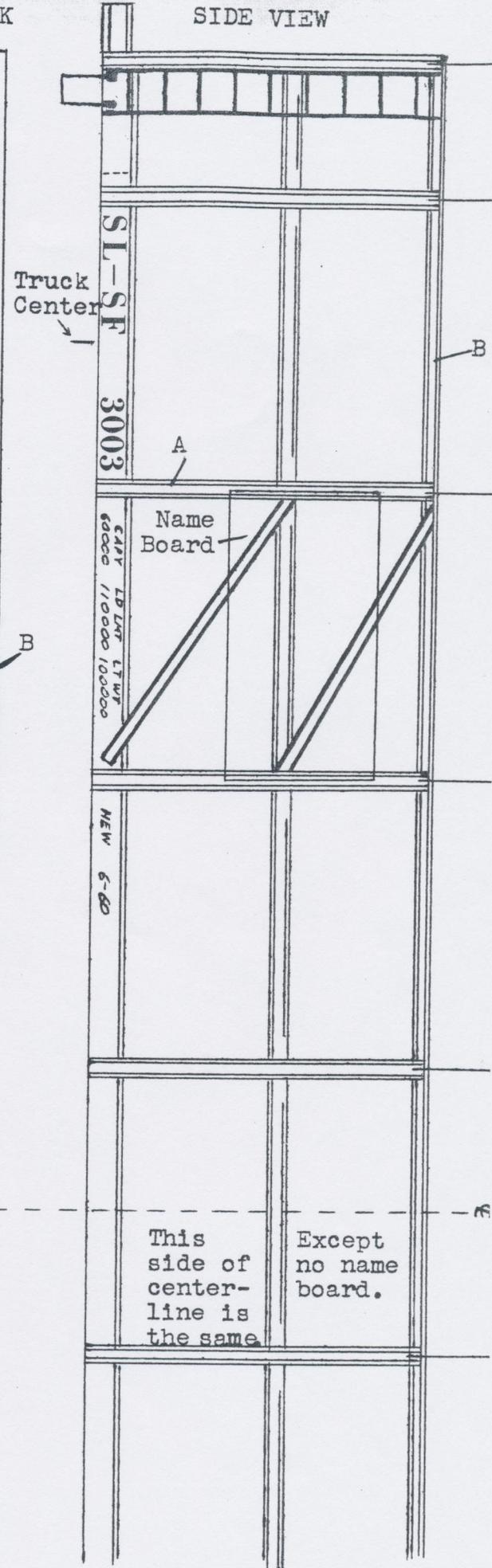
END VIEW



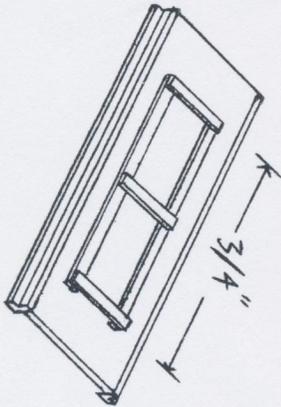
TOP & MIDDLE DECK



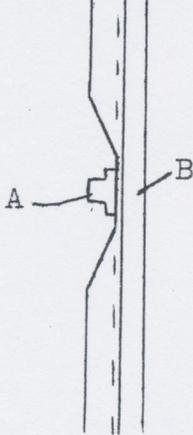
SIDE VIEW



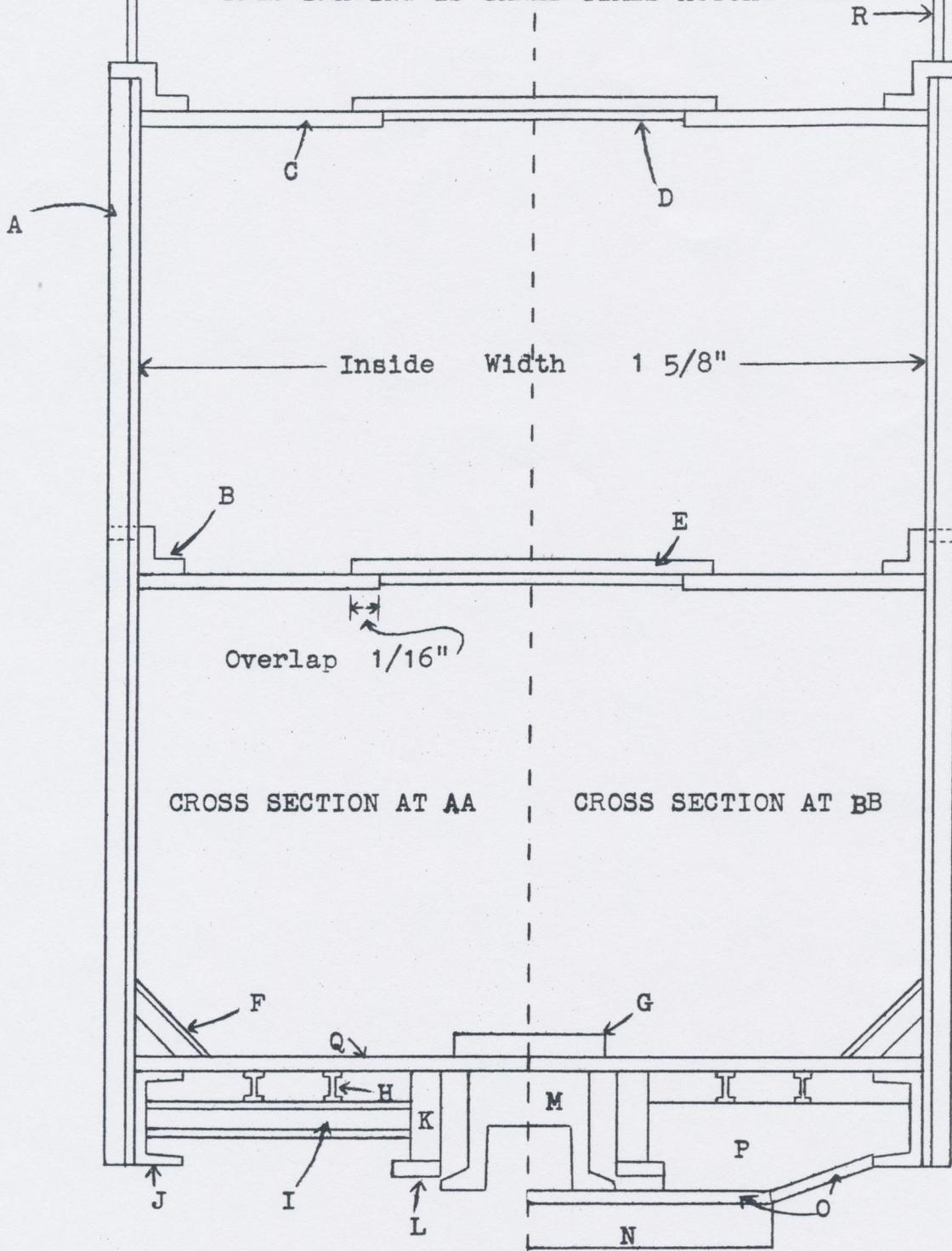
BRIDGE ASSEMBLY



MIDDLE DECK CUTAWAY



THIS DRAWING IS THREE TIMES ACTUAL SIZE



PART DESCRIPTION & COLOR CODE

A	1/8" Hat Section	Brown	J	5mm Channel	Silver
B	3/32" Zees	Yellow	K	1/16" x 3/16"	
C	1/32" x 1/2"		L	1/32" x 3/32"	Red
D	.020" x 3/64"	Red	M	Grooved Center Sill	
E	1/32" x 3/4"		N	3/32" x 3/32"	
F	1/16" Tee	Brown	O	1/32" x 3/32"	Red
G	.04" x 5/16"		P	1/32" thick web	
H	1/16" I Beams	Yellow	Q	1/32" x 13/16"	
I	5/64" Channel	Green	R	Wire Railing	
	3/32" Channel	Blue		3/64" Angle	Silver
	1/32" x 1/4"	Green		5/32" Angle	Yellow
	1/32" x 5/16"	Blue			