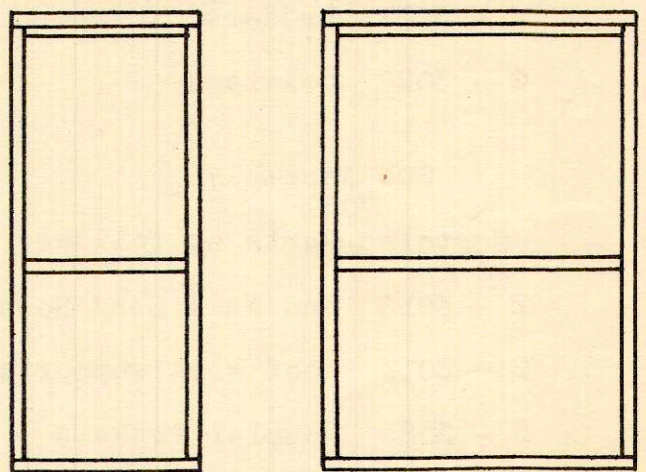
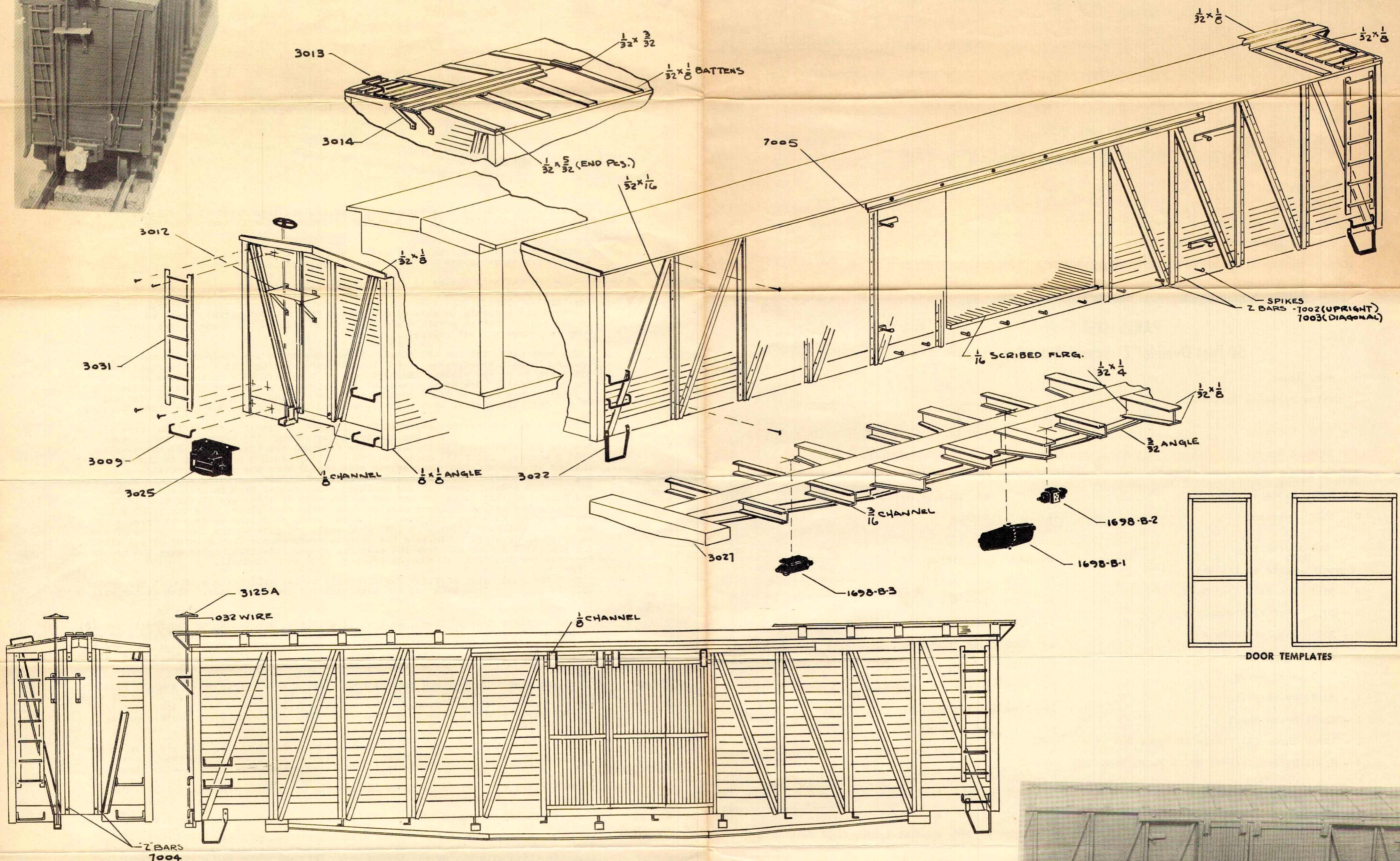
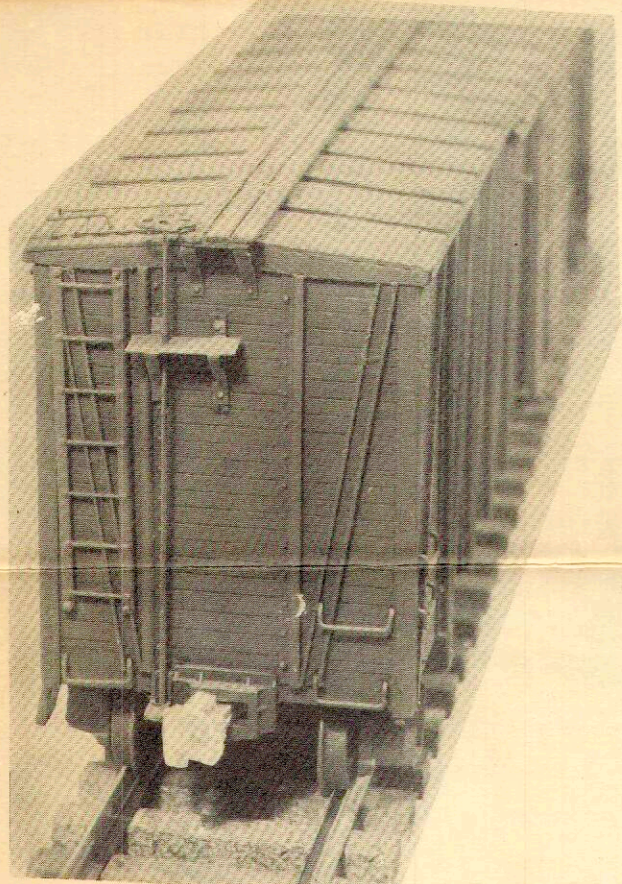


# 50 Ft. Outside "Z" Braced Auto Car

In O Gauge by All-Nation

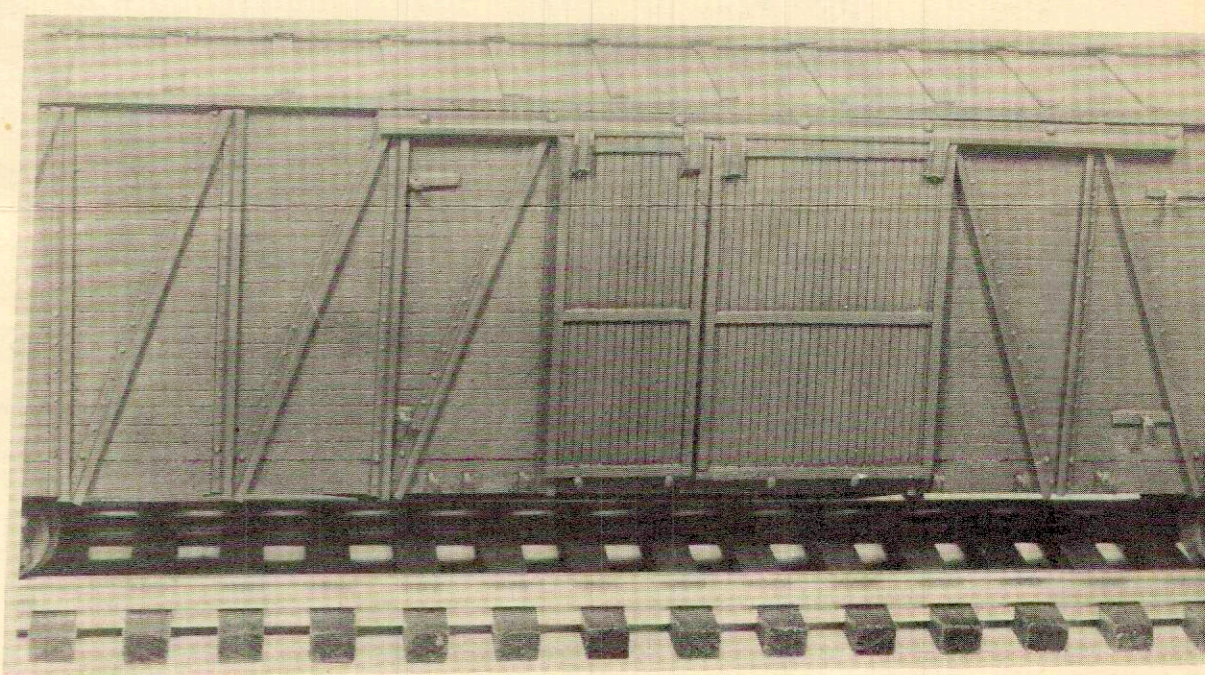
Door and Half Kit No. 7000 Scale Only

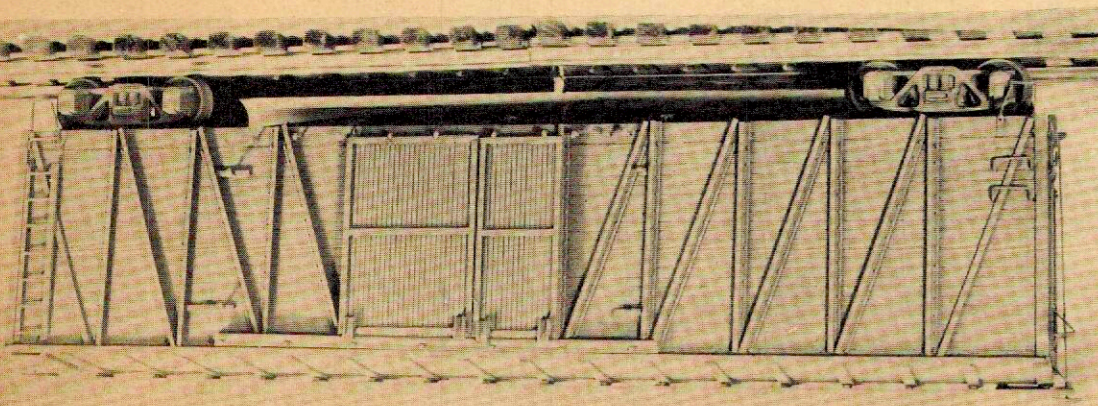


DOOR TEMPLATES

Recommended paint is All-Nation Super Tuscan Red.

**50 Ft. Outside "Z" Braced Auto Car**  
 O Gauge - Scale Only - Kit No. 7000  
 Designed and Made For  
**ALL-NATION HOBBY SHOP**  
 By Zimmer Scale Models  
 Drawing by Robert Price





**50 Ft. Outside "Z" Braced Auto Car**  
 Assembly Instructions  
 In O Gauge by All-Nation  
 Kit No. 7000 Door and Half  
 Scale Only

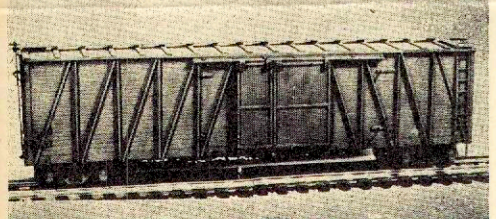
**Assembly Instructions**  
**50 Ft. Outside "Z" Braced Auto Car**

13. Glue on roof walk and make up end roof walks from 1/32" x 1/8" strip wood as shown and glue in place.  
Apply hand holds to end walk (Part No. 3013.)
14. Glue AB Brake Set (Part No. 1698) in place as shown.
15. Cut brake staff from .032 wire to length and attach as shown and solder or glue brake wheel (Part No. 3125A) in place.
16. Paint and put on your choice of decals and place on trucks.

**PARTS LIST**  
**50 Foot Outside "Z" Braced Auto Car**

Sub. Assembly 7050		Contains Parts as follows:	
18 - 7002	Z Braces	2 -	Coupler Mounting Pins
14 - 7003	Z Braces	2 -	Couplers
4 - 7004	Z Braces	50-	No. 22-1/4" Escutcheon Pins
4 - 3031	Ladders	125-	No. 22-1/4" Nails
2 - 3027	Bolsters	20-	No. 20-5/8" Nails
		26-	Spikes
Sub Assembly 7051		Contains Parts as follows:	
2 - 3013	End Walk Hand Hold	2-	7005 Door Slides
2 - 3014	Roof walk supports	2-	7006 Wood Roof
2 - 3025	Coupler Pockets	2-	7007 Wood End Blocks
4 - 3022	Steps	1-	7008 Wood Floor
12 - 3009	Hand Grabs	1-	7009 Wood Fishbelly Center Sill
1 - 3012	Brake Platform	2-	7010 Scribed wood sides
1 - 3125A	Brake Wheel	2-	7011 Scribed Wood for doors
1 - 1698B	Three (3) Pieces AB Brake Set	1-	7012 Scribed Wood for Ends
4 - C1401	Bolster screws No. 2 F. H. Wood	1	1/8" Wood Channel
1 -	.032 Wire	1	3/16" Wood Channel
		1 -	3/32" x 3/32" Wood Angle
		1 -	1/8" x 1/8" Wood Angle
		6 -	1/32" x 1/8" Wood Strip
		3 -	1/32" x 1/8" Wood Strip for Roof Walk Only (13 1/2" Long)
		1 -	1/32 x 5/32 Wood Strip
		1 -	1/32" x 3/32" Wood Strip
		4 -	1/32" x 1/16" Wood Strip
		1 -	1/32" x 1/4" Wood Strip
		1 -	1/16" x 1/16" Wood Strip
		1 -	7001 Instruction Sheet

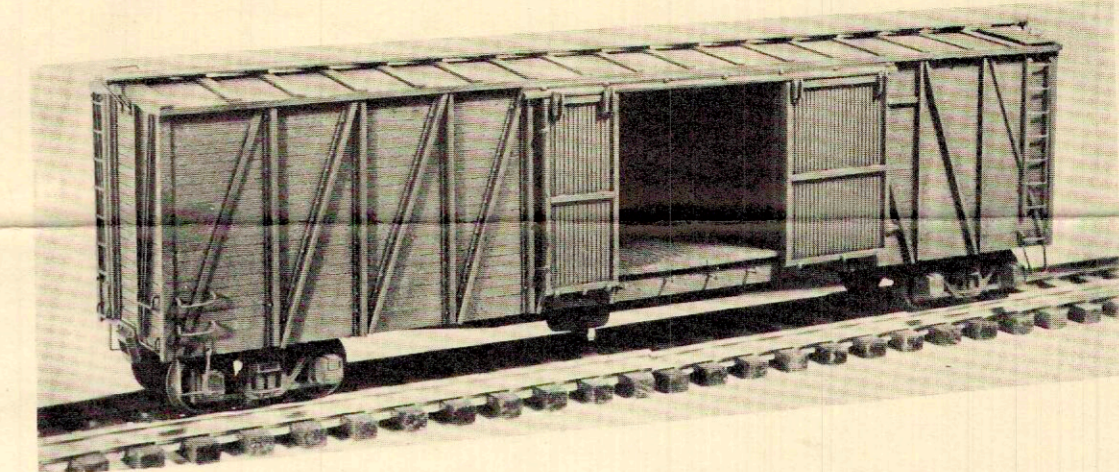
**50 Ft. Outside "Z" Braced Auto Car**  
 In "O" Gauge by All-Nation



**Scale Only**  
 Door and a Half  
 High and Narrow

**Assembly Instructions**  
**50 Ft. Outside "Z" Braced Auto Car**  
 In O Gauge by All-Nation

Door and Half Kit No. 7000 Scale Only



Before starting to build this car, read these instructions carefully. This is not a one evening assembly, so with a little care and patience, you will have a car that is well built and can well be proud of.

1. Glue the two (2) roof halves together and hold in position long enough to be able to lay aside to let the glue set while assembling the floor and end blocks.  
Glue and nail end blocks to floor. When doing this be sure of leaving an equal space on each side of end block before nailing, using small nails (No. 20-5/8" long). Now take the two (2) sections of roof that have been glued together and assemble to ends with glue and (No. 20-5/8" nails). Nail as close to the end of roof as possible and drive flush with roof. Check to see that the body is square and set aside.
2. The next step, the two (2) sides. If working doors are desired, cut out door opening in both sides. When doing this be sure that they will be staggered when sides are in proper places. Measure 5-9/16" from left side of scribed side - (do both sides). Now measure 4-9/16" from right side and draw lines on sides with a pencil. Now measure 5/16" from bottom edge of side and 1/8" from top edge and mark. Cut out openings with a coping saw and file smooth. Now glue sides to body.
3. While sides are drying, separate the different sizes of Z braces into three (3) piles. Four (4) braces for the end braces, eighteen (18) braces for the upright bracing and fourteen (14) braces for the diagonal bracing, a total of thirty-six (36) Z braces. Drill (3) holes (No. 68 drill) in each Z brace, one in the center and one at each end from the reverse side (back) thru the rivet impressions. Now take the measurements of bracing from the full sized drawing and mark locations on scribed sides. Then cut the scribed wood, marked ENDS in half and glue to end blocks so that bottom of end and bottom edge of sides are at the same level. When glue has set, trim upper portion flush with roof lines. Use the 1/32" x 1/8" strip wood to make the trim boards of ends at the roof line as seen in drawing of end view. Cut four (4) 1/8" x 1/8" wood angle and glue to the four corners of car as shown in drawing. Then take the correct measurements from drawing of end view for the (2) Z braces and mark the ends for proper locations. Also mark the proper location for the diagonal channel bracing (1/8" wood channel).
4. Mark the under side of floor for fishbelly center sill being sure that the center sill is centered from each end and also centered from each side. Glue center sill in place.  
File bolsters free of flash, so that it will fit, and fasten to floor with two (2) screws per bolster - (No. 2 Flat Head). Glue 3/32" wood angle on both sides of center sill as shown. Cut and glue 3/16" channel to length between center sill and inside of side. Make remaining cross members from 1/8" x 1/32" and 1/4" x 1/32" strip wood as shown in drawing. Get all measurements from drawing.
5. Cut and glue four roof end battens from 1/32" x 5/32" strip wood, and the remaining roof battens from 1/32" x 1/8" strip wood. Cut three pieces 1/32" x 1/8" strip wood for roof walk to correct length. Now cut twenty (20) pieces 13/32" long from 1/32" x 3/32" strip wood and glue to roof walk strips. Use drawing for proper spacing and set aside.
6. Now fasten end Zee braces to both ends with the small nails. Cut and glue on the 1/8" diagonal wood channel as shown. Also fasten Zee braces to Scribed sides with small nails provided. Cut and fit scribed wood marked Floor and glue in place.
7. Cut scribed wood marked Doors to proper size using door template which is full size.
8. Cut strips of wood from 1/16" x 1/16" strip wood to fit in between Zee Bars to the length of the Door Slide and glue in place at the roof edge only. Then place door slide in position and with a pencil, mark holes. Remove slide and drill thru the 1/16" x 1/16" strip with a No. 68 drill to prevent splitting of strip when fastening Door slide with No. 22 escutcheon pins 1/4" long. Cut small strips from 1/32" x 1/16" and glue into place as shown for Door stops. Drill correct spot with a No. 68 drill. Then insert a spike into each strip, (two per Panel) as shown. Place doors into position and use spikes for lower door slides as shown.
9. Cut and glue from 1/32" x 1/16" strip wood, the diagonal bracing at the four corners of the two sides of the car as shown.
10. Notch out ends at bottom for coupler pockets (Part No. 3025) and pin coupler pockets in place with No. 20-5/8" nail. Attach end ladders, roof walk supports (Part No. 3014), Brake Platform (Part No. 3012), Hand Grabs (Part No. 3009). Drill holes for hand grabs with a No. 68 Drill first.
11. Attach ladders, hand grabs and steps (Part No. 3022) to both sides of car.
12. Attach couplers with No. 8-3/4" coupler mounting pins.