Procedure 3) - See Figure 3

begin your project with the assembly of pieces A.C.I.M. & K. First glue and notil pieces L to A using 1-1/4 finishing notis, keep the ends of L flush with A, and locate the bottom of L, 2-1/2" up from the bottom of A as illustrated in Figure 3. Repeat this procedure for pieces K & M, but ensure that the ends of M are 1-1/2" inside the edges of K to allow for the overlap of the corners. Once all four sides are completed, they may be stood up and fastened together by gluing and nating through K into A, with three natis in each corner. Make sure the bottom edges are all even. Glue and noil piece C to the top of pieces M & L. The four non-turning wheels are glued in place as referenced in figure 3, one finishing natil will hold them until the glue sets.

rocedure 4) - See Figure

The next step is to add the horizontal brace piece B. This is fastened between pieces A, and in the center as illustrated in Figure 3. Keep the top surfaces even or you will encounter difficulty when attaching the top. Use glue and three 1–1/2" finishing nails per end.

rocedure 5) - See Figure 5

The next step is to attach the top, piece D to pieces A. We recommend the use of four steel corner braces as shown in Figure 5. It is easiest to attach the praces to the underside of piece of first, locate them about 2-3/4" in from the edges and 3/4" back from the ends. You should pre-affil each hole first with a 5/64" drill, then screw the braces in place with two 5/8" flathead screws each. Now the top can be placed on top of the assembly, use glue, and nail through piece D and into pieces A & B. You can now insert two more 5/8" screws through each bracket into pieces A, from the inside. Make sure to position the top, piece D, so as to allow 3/4" overhang on each side as illustrated in Figure 5.

Procedure 6) - See Figure 6

Now is the time to install the two hinged doors. First cut the plane hinge to the correct length (35" and fasten it to the bottom edge of the side, piece J, using 3,4" flathead screws in each hole. The did can now be fastened to the top edge of piece K as illustrated in Figure 6 using 3,4" screws as well. It is best to only insert about two or three screws on each side of the hinge until you are satisfied that the position is correct. This procedure makes it easier to re-align the side if necessary.

TIP-— If you end up with a bad hole you cannot insert a screw into, or need to change the position of the hinge, and find that one or more of the previous holes no longer lines up, then take a silver of wood, or round toothpicks, and tap them snugly into the hole until it becomes saild again. This will allow you to insert another screw adjacent to a previously bad hole.

Procedure 7) – See Figures 6 & 7

The construction of the hitch assembly is straight forward. Reference to Figure 6 & 7, glue and noil pieces E,F & 6 tagether, keeping them flush on the back side and the bottom. Apply glue to the 1/2" dowel and insert into the hole, keeping the bottom flush. Attach the completed assembly to the end(s) of the tubox, using glue and two 1-1/4" flathead screws. Position the hitch in the center of piece A as shown in Figure 6. You may elect to only tabricate and install two hitch assembles if you have no plans of ever building the caboose toylox (Project #514), the second hitch assembly will need to be installed on the rear of the occumotive, if you have built one previously.

ocedure 8) - See Figures 3,8 & 9

The next step is to attach the four casters as shown in Figure 3 and 9. Giue and nail the 3'x3" blocks to the bottom of piece C, on the inside corners of pieces L & M. Attach the casters with four 3',4" screws. Make sure the caster has clearance to swivel all the way around without touching the sides. Attach four magnetic door catches as per Figure 8, in each of the upper inside corners using the supplied screws.

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Finish you project off with paint or stain of your choice. Do not use leaded paint for any projects that will be around children.

n Materials

We recommend using birch plywood for this project as the surfaces are smooth, and this allows you to use a varathane varnish on the interior for a smooth finish.

WHEELS AND FLOOR
LOCATIONS FIGURE 3

HEEL LOCATIONS TYPICAL BOTH ENDS AND SIDES

WHEELS FLUSH WITH BOTTOM OF SIDE PANEL

BOX CAR TOYBOX - Project #513 (Side B)

BOXCAR COMPLETED PROJECT FIGURE 8

2 1/2" [63]

- FLOOR SUPPORT ITEM 'N'
- CASTER SUPPORT ITEM 'N'



