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NOTES: Read all directions before beginning

Carpenter's glue should be used to reinforce all joints. Set all nails and countersink screws - use wood filler as necessary to spot nails and screws before finishing wood. Dimensions shown in brackets denote millimetres. Wipe off excess glue with a wet cloth before it has time to set. Dry fit all parts to ensure proper fit prior to joining.

Directions:

Procedure 1) - See Figure 1

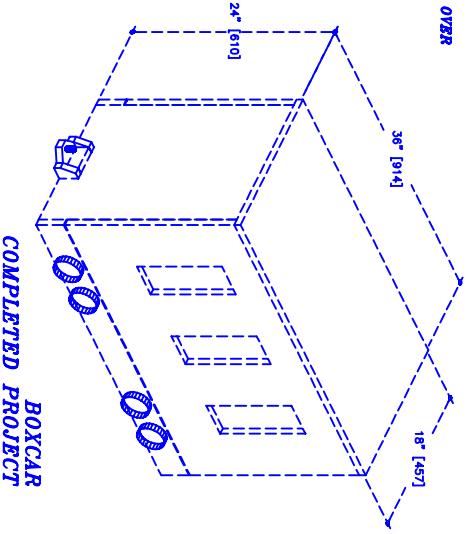
Begin your project by laying out all materials as illustrated in Figure 1 (Materials Layout). Using pencil, measuring tape and spirit level (making sure it is level), draw out all the parts exactly as shown using the dimensions and shapes illustrated in Figure 2 (Cutting Diagram). Be sure to include the part numbers designations for each piece as well. In the case where two parts are laid out next to each other, be sure to leave enough space between them to allow for the width of the saw cut, which will vary with different saw blades. Note that piece B may also be cut from 3/4" plywood, we only showed it this way as you probably can't cut it from the single sheet of plywood unless you have small scrap pieces to substitute for pieces N & G, then you will have enough wood.

Procedure 2) - See Figure 2

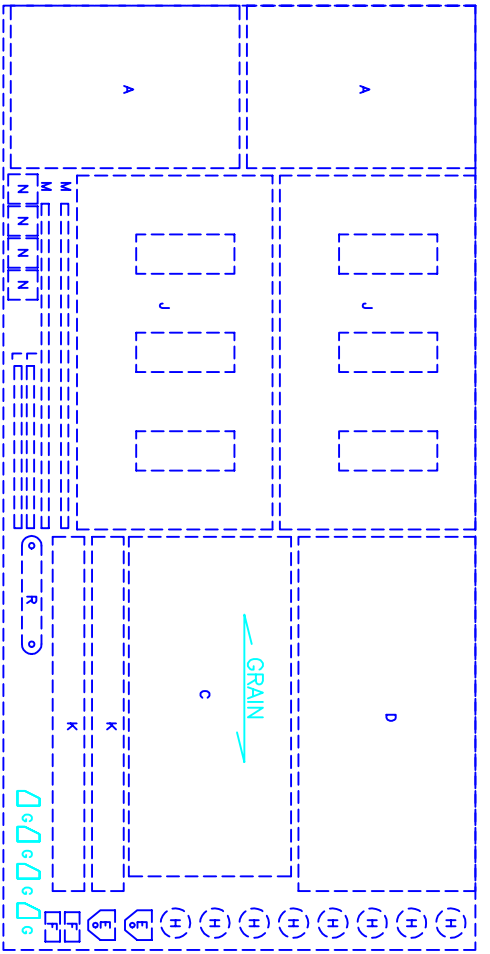
Start by cutting out all the pieces as illustrated in Figure 2. The wheels H may be cut with a jigsaw, hand saw, or coping saw. As they do not turn, the roundness is not critical; if you don't have a compass, try to find a round object in the house such as a bowl to trace around. The 3" diameter is important so as to allow the sides of the toy box to open down to the floor. The cutouts in pieces J are made by first drilling a 3/8" hole in one corner and then cutting with a jigsaw or scroller saw. These windows may be pointed as opposed to being cut out, but the project looks better with the windows cut out as per the photo. The rounded ends of pieces R may be sanded to shape also, if you don't have access to the proper saw.

NOTICE

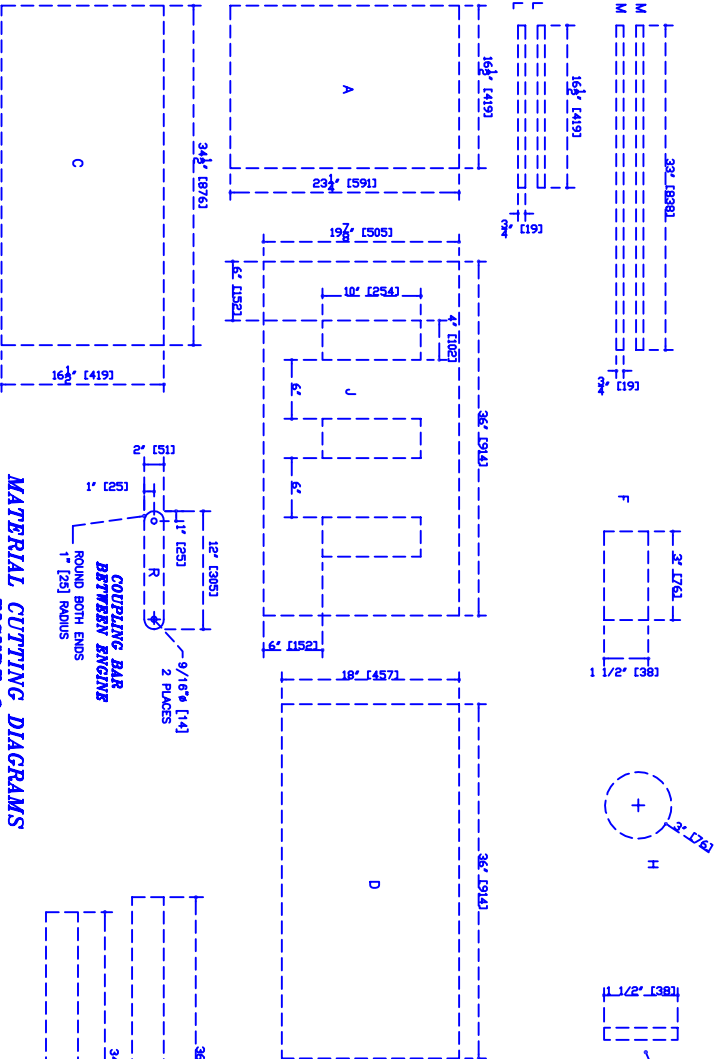
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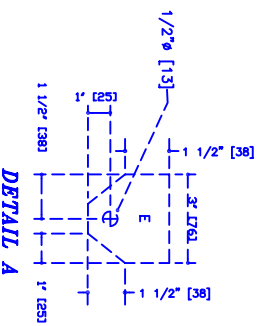
BOXCAR COMPLETED PROJECT



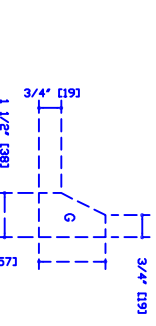
MATERIALS LAYOUT
FIGURE 1



MATERIAL CUTTING DIAGRAMS
FIGURE 2



DETAIL A



DETAIL B

NOTE:
2 PIECES OF 1/2" X 1 1/2" [38] LONG HARDWOOD DWEL ARE REQUIRED FOR TWO HITCH ASSEMBLES

MATERIALS LIST

- One 4' x 8' sheet 3/4" plywood
- Approx. 1/2 lb. 1" finishing nails
- Approx. Eight 1/2" #8 flathead screws
- Four 1/4" 30 degree brackets
- Two 36" x 1 1/4" piano hinges and mounting screws
- Four casters with mounting screws

MATERIALS LIST

- Wood filler
- Sandpaper
- Paint
- Carpenter's Glue

TOOLS

- Pencil
- Compass
- Hand saw or
- Jigsaw
- Circular saw
- Sanding block

TOOLS

- Drill
- 1/16" bit
- Horrner
- Measuring tape
- Nail set

Blueprints for the Handyman Presents

BOX CAR TOYBOX - Project #513

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