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## BUILDING THE TREASURE CHEST

The Treasure Chest is quite simple to build. Except for the cleats and the front frame, 1/2-in. plywood is used throughout. All joints should be adequately glued and if not screwed, nailed securely with 2-in. finishing nails.

Cut out the front first. This measures 10 1/4 in. wide and 22 1/2 in. long. Lay out the speaker openings according to the sizes given. Cutting can be done with either a jigsaw or a keyhole saw by first drilling a hole to start the blade. The 7 1/4-in. circular opening is framed on the back with three cleats. These are 1/2 x 3/4 in. and the dotted lines in the front-view drawing show where they go, the end cleat being placed 1 1/2 in. in from the end of the board and the others even with

the top and bottom edges. A 1/2-in. plywood sub-baffle, having a 7 1/2-in. hole cut in it, is later screwed to these cleats to provide a sound passage as the left-hand side. Be sure that the joints between the cleats are airtight so that the sound passage will function properly.

The bottom is cut next. This is the same length as the front, 22 1/2 in., and is 9 1/4 in. wide. The bottom laps the front and is glued and nailed in place even with the edge. Check to see that it is at right angles. This, as well as all other joints, should fit tight. Next come the ends. These are 9 1/4 in. wide and 10 1/4 in. high and you'll notice that they lap the bottom and front. Nails and glue are used to fasten the ends to the bottom and front. The top laps the front and ends and thereby must measure 9 1/4 in. wide and 23 1/2 in. long. It is nailed and glued in place like the other pieces.

Now the outside front edges of the ends and top are rabbeted 1/16 in., detail A. While this step is optional, the rabbet does add a decorative touch and simplifies trying to make a perfect-matching joint at the time the front frame is added. The rabbet amounts to nothing more than a saw cut obtained by adjusting the blade on your circular saw to make just a shallow cut.

The overall width and height of the frame must equal that of the cabinet. It is made separately, mitering and nailing the corners like a picture frame. Before the frame is edge-glued and clamped to the front of the cabinet, grille cloth is applied to the front, keeping it 1/2 in. in from the edges all around. Draw the cloth smoothly and hold it so by applying glue to the edges.

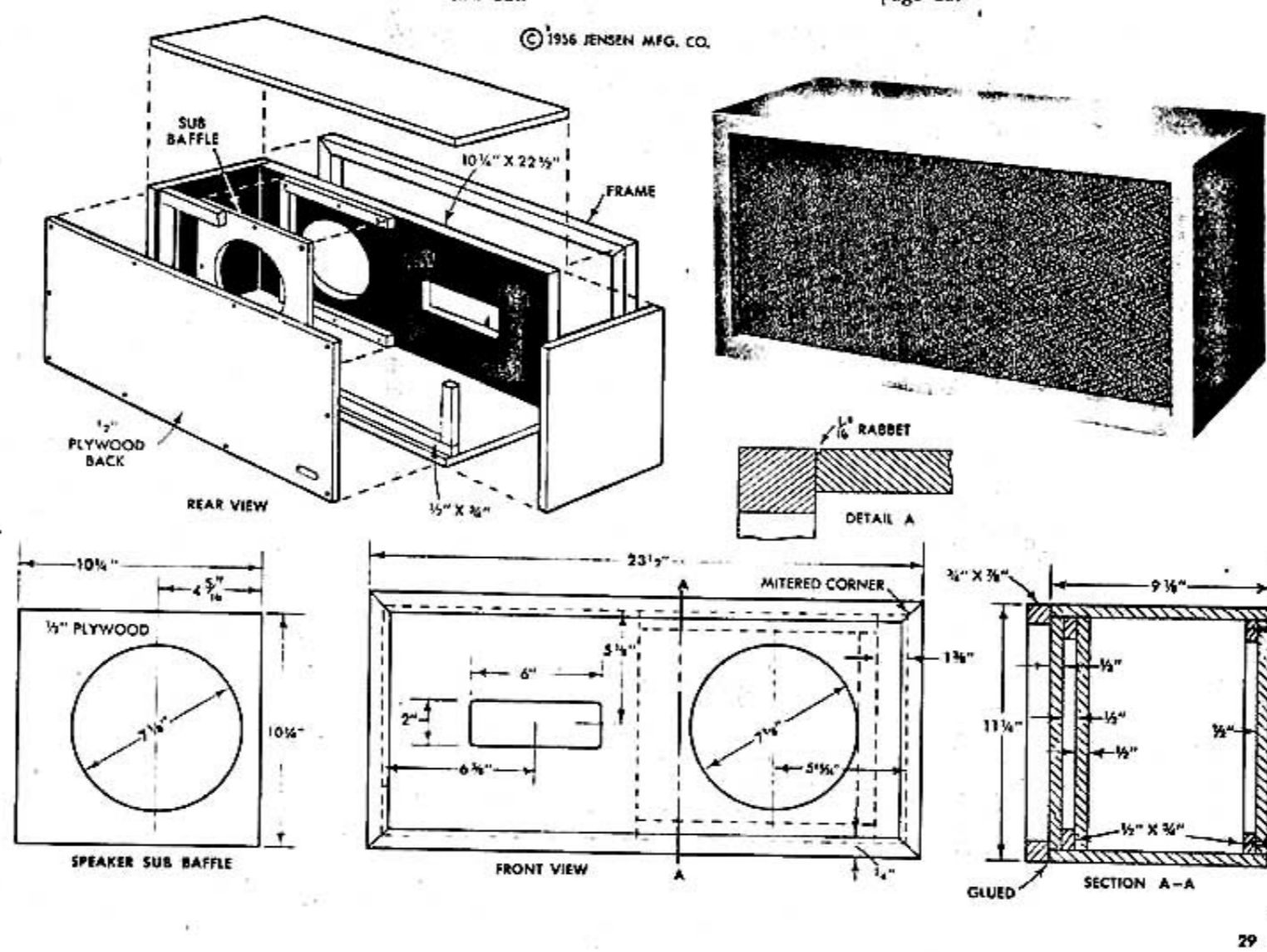
All that remains is cutting the removable back. It fits inside the ends, top and bottom and is fastened in place with screws driven into 1/2 x 3/4-in. cleats. The cleats are glued and nailed to the inside of the cabinet at the back, placing them 1/2 in. in from the edge.

Note also that the Jensen KDU-10 Duette speaker system kit can also be used in the Bass Ultraflex enclosure for 8-in. loudspeakers with the same brilliant performance in the h-f range but with even somewhat improved l-f performance due to the larger enclosure size. Figure 4 shows front panel details: simply add a 2" x 6" horizontal rectangular slot above the opening for the 8-in. speaker. Drill starting holes at the corners and cut out with keyhole saw. Fasten the front panel to the enclosure exactly as described on page 26.

### MATERIAL LIST

#### TREASURE CHEST DUETTE

- |                 |                                  |
|-----------------|----------------------------------|
| 1/2-in. Plywood |                                  |
| 1               | 10-1/4 x 22-1/2 Front            |
| 1               | 9-1/8 x 22-1/2 Bottom            |
| 1               | 9-1/8 x 23-1/2 Top               |
| 2               | 9-1/8 x 10-3/4 Ends              |
| 1               | 10-1/4 x 22-1/2 Back             |
| 1               | 10-1/4 x 10-1/4 Sub-baffle       |
| Lumber          |                                  |
| 1               | 3/4 x 7/8 x 72 Front frame       |
| 1               | 1/2 x 3/4 x 30 Sub-baffle cleats |
| 1               | 1/2 x 3/4 x 66 Back cleats       |
- All dimensions in inches



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