



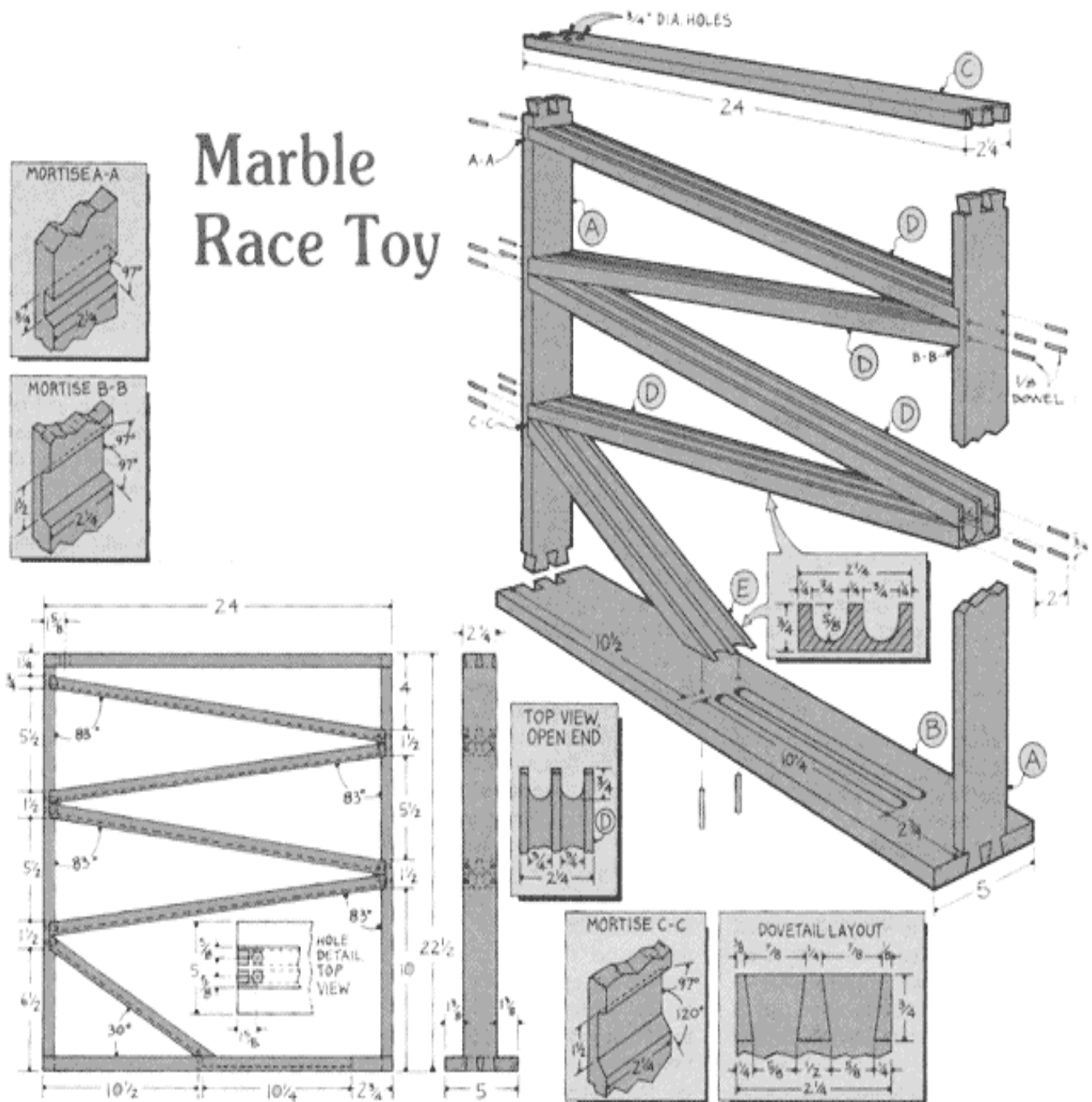
Project 19124EZ: Marble Race Toy

This marble race may not seem exciting at first glance, but after several test runs, we were hooked. If you are careful with the dovetailed joinery, and select an attractive hardwood for the construction, the marble race can be an especially handsome piece.

Marble Race Toy Materials List

Part	Description	Size	No. Req'd
A	Side	3/4" x 2-1/4" x 22-1/2"	2
B	Base	3/4" x 5" x 24"	1
C	Top	3/4" x 2-1/4" x 24"	1
D	Long Runner	3/4" x 2-1/4" x 23-3/8"	4
E	Short Runner	3/4" x 2-1/4" x 13-1/4"	1

Marble Race Toy Complete Schematic



Marble Race Toy Step-by-Step Instructions

1. Cut pieces A through C to length and width.
2. Leave a little extra length and cut the runners (D).
3. Equip the router table with a 3/4" core box bit.
4. Rout the marble troughs in the base and in the long and short runners (see mortise details).
5. Drill the 3/4" diameter marble drop holes in the top.
6. Hand-cut the dovetails in the four frame members.
7. Dry assemble the race to test the fit of the runners.
8. Scribe and cut the runners carefully so the fit exactly.
9. Use the router table equipped with a 3/4" core box bit once again and cut the marble drop grooves in the lower ends of the long runners (see top view, open end).
10. Assemble the marble race.
11. Rill for and insert the 1/8" dowel pins as indicated to anchor all the runners.
12. Final sand.
13. Run in two coats of tung oil.

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