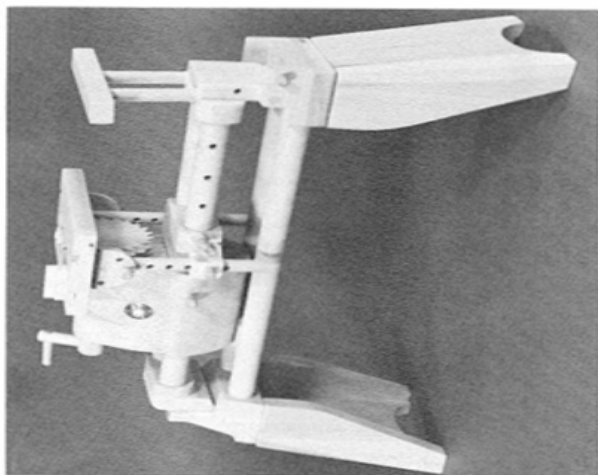
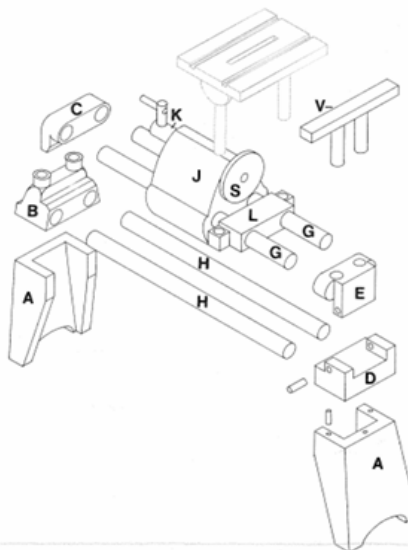
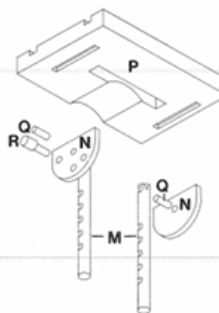


CONSTRUCTION PROCEDURE

1. Cut all stock to rough dimensions
2. Glue up stock for Headrest "B", Tie Bar "C", Pivot Arm Base "D", Pivot Arm "E", Headstock "J", and Carriage "L"
3. Bench End "A" — Make two, 6 pieces total
 - a. Cut angles on Bench End faces (2) and sides (4)
 - b. Cut contour on lower end of Bench End face
 - c. Assemble (w/glue), set aside
 - d. Round corner on Bench End sides (4)
 - e. (After dry) cut 10° angle on top and feet of Bench End "A"
 - f. Drill dowel holes for assembly in top of Bench Ends
4. Ways (Upper and Lower "G" & "H" — Two Each)
 - a. Cut to length
 - b. Turn Upper Ways "G" to 15/16" dia. — leaving 3/4" original diameter at ends
 - c. Mark and drill Stop Pin holes in Upper Way
5. Headrest "B"
 - a. Mark contours and centers of holes
 - b. Drill holes (small diameter first)
 - c. Cut contours
 - d. File and sand smooth
6. Tie Bar "C" (Same as #5)
7. Pivot Arm Base "D" (Same as #5) DO NOT drill Pivot Pin holes
8. Pivot Arm Base "E" (Same as #5) DO NOT drill Pivot Pin holes
9. Headstock "J" (Same as #5)
10. Carriage "L" (Same as #5)
11. Table "P"
 - a. Mark slots, grooves, and recessed areas
 - b. Machine slots, grooves and recessed areas
12. Protractor Tilt Stop "N"
 - a. Resaw lumber — 4 pieces 3/16" thick x 1-3/4" x 2-3/8"
 - b. Glue face to face with opposing grain pattern
 - c. Sand face and back to remove saw marks
 - d. Mark center lines for holes and rounded contour
 - e. Drill holes
 - f. Cut radius
 - g. Sand edges
13. Table Support Bar "M"
 - a. Cut to length
 - b. Drill Pivot Pin hole ONLY
 - c. Assemble Protractor Tilt Stop "N" to Bar "M" with Pivot Pin "G"
 - d. Drill Stop Pin hole using Protractor as guide
 - e. Remove Protractor and mark remaining holes
 - f. Drill remaining Stop Pin holes
 - g. Round top of Support Bar
14. Spindle Crank "K"
 - a. Cut 1" dowel to 1" over length
 - b. Turn spindle arbor, then cut off
 - c. Cut 3/8" and 1/4" dowels to length
 - d. Drill holes, small diameter first
 - e. Assemble
15. Stop Pins "R"
 - a. Cut dowel rod to 1" over length
 - b. Mount in chuck on lathe
 - c. Mark and turn shank
 - d. Score and chamfer knob
 - e. Cut off
16. Saw Blade "S"
 - a. Resaw stock to 3/16" thick (2 pieces)
 - b. Glue face-to-face, using opposing grain pattern
 - c. Mark center, major diameter, minor diameter, and teeth
 - d. Cut out teeth
 - e. Drill 1/2" arbor hole in coupler
 - f. Drill 1/4" Pin hole in Saw Arbor
 - g. Glue arbor coupler at center on back of Blade
 - h. Finish drilling 1/2" arbor hole through saw
17. Drill Chuck "T"
 - a. Cut dowel 1" over length
 - b. Mark and drill 3/16" chuck key holes
 - c. Mount on lathe and turn to contour given
 - d. Drill 1/2" arbor hole
18. Miter Gauge "U"
 - a. Cut stock to size
 - b. Round base piece
 - c. Assemble pieces w/glue
19. Extension Table "V"
 - a. Cut Table top to size
 - b. Mark and drill two holes in bottom of table
 - c. Cut dowels to length
 - d. Glue dowels in holes
20. Assembly
 - a. Drill Pivot Pin holes in Pivot Arm Base "D" and Pivot Arm "E" while assembled in vertical position
 - b. Round Pivoting Edge of Pivot Arm "E"
 - c. Assemble Bench End "A" to Headrest "B" using dowels
 - d. Assemble Bench End "A" to Pivot Arm Base "D" using dowels
 - e. Glue Protractor Tilt Stops "N" in recess of Table "P"
 - f. Glue Table Pivot Pins "G" into the Table Support Bar "M"
 - g. Slide Headstock "J" and Carriage "L" on Upper Ways "G" and insert Pins
 - h. Glue Upper and Lower Ways "G" & "H" in proper positions and clamp from both ends
 - i. Slide in Spindle Crank "K" and attach Saw Blade "S"
 - j. Slide in Table Assembly and pins. You now have completed your Mark .5! Easy, wasn't it?



SHOPSMITH MARK .5 PLAN NO. FA-1711

If you've got a little boy or girl around the house, we don't have to tell you how they like to imitate your every move. In fact, they've probably been standing around watching as you work with your own Mark V.

Now you can give them their own version of the Shopsmith Mark V, which we call the Mark .5! To those little eyes, it looks almost like the real machine. You can imagine just how much fun they'll have playing with their own version of the world's most versatile home shop tool. Turning the hand-crank is enough to start their imaginations turning, and before you know it, they'll be "building" things you and I have never even dreamed of!

Follow the directions we've outlined here and you'll find the project exciting for you... and unforgettable for that little one that's such a big part of your life.

NOTE: The mini-Mark .5 is intended as a toy, not as a training tool. Safety guards have been eliminated for simplicity, but they should always be used when you're working with the actual machine. Remember, **SAFETY FIRST!**