

1982 ORIGINAL  
ELIZABETH

# ASHFORD HANDICRAFTS LTD

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TELEX No. AR 4150 PREFIX ASHFORD. CABLES: ASHFORDS, ASHBURTON.

## ASHFORD ELIZABETH SPINNING WHEEL

### ASSEMBLY INSTRUCTIONS:

**Finishing** — If your wheel has not been pre-finished consult your "Learn To Spin" booklet for suggestions.

**Assembly** — To make assembly easier rub wax on the dowel ends of legs, maiden uprights, wheel supports, wooden thread and wood screws.

**Step 1** — Lie the table A face down. Locate the short leg B with the hole for the treadle rail into the wide end of the table.

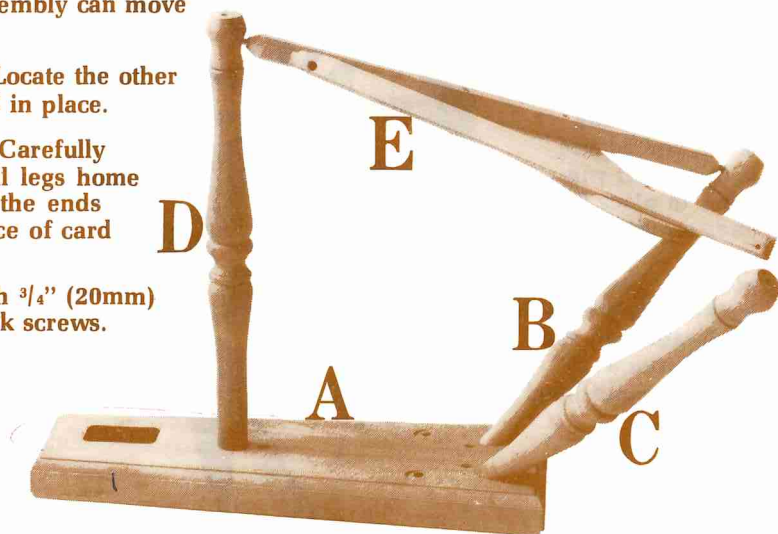
**Step 1A** — Join the 2 treadle rails with a 38mm (1.5") countersunk screw. Secure the treadle board to the treadle rails with 32mm (1.25") countersunk screws, keeping the bottom edge of the treadle board parallel with the treadle rail 35mm (1<sup>3</sup>/<sub>8</sub>") below it.

**Step 2** — Position the treadle assembly E between the short leg B and long leg D and push the long leg into the table. If necessary twist either leg so the treadle assembly can move freely.

**Step 3** — Locate the other short leg C in place.

**Step 4** — Carefully hammer all legs home protecting the ends with a piece of card or wood.

Secure with <sup>3</sup>/<sub>4</sub>" (20mm) countersunk screws.



Step 5 — Sit the table on its legs. Take the wheel support F (which has the hole drilled right through). Place F in the hole in the table on the side away from the spinner. Position the barrel nut (looks like a small barrel with a threaded hole) into the wheel support F (noting the slot in the nut is at right angles to the hole). Thread the bolt through the table support F and into the barrel nut. Repeat with wheel support G on the spinners side, keeping the bearing facing inwards. Place the crank in position and keep it turning freely while tightening the bolts with the allen key provided.

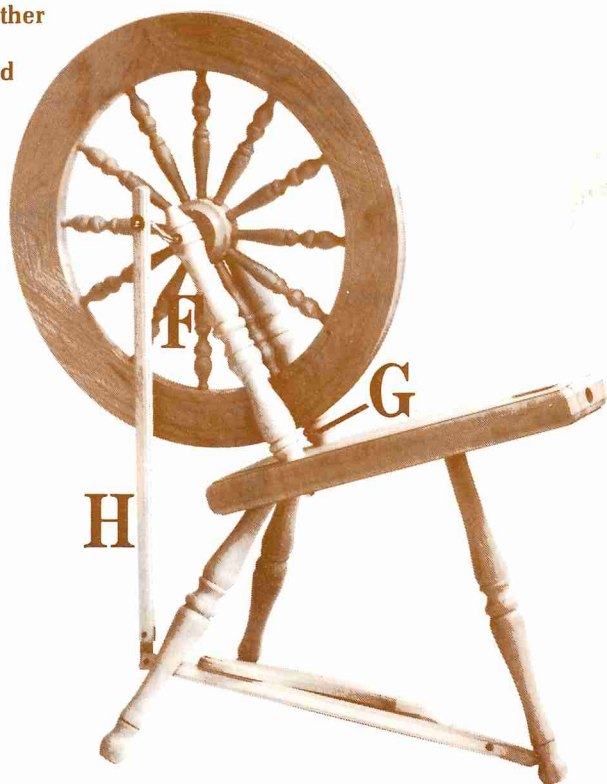
The 2 x 8 x 19mm ( $\frac{5}{16}$ " x  $\frac{3}{4}$ " ) washers are placed on the bolts before securing the wheel supports F and G to the base. The washers will prevent the bolt heads pulling into the base when tightened.

Step 6 — Remove crank to place the wheel in position and then reinsert the crank. This has deliberately been made a tight fit in the hub so do not lubricate or ream out the hole. To secure the wheel first locate the hole in the crank by pushing the nail supplied through the hub and twisting the crank backwards and forwards until the hole is located. Next remove the nail and tap the tension pin through the hub and crank. It is recommended that a large screwdriver or similar object be placed over the pin when tapping it through the hub so the wheel spokes are not damaged.

Step 7 — Secure the leather to the connecting rod H with a  $\frac{5}{8}$ " (16mm) round head screw.

Step 8 — Locate the connecting rod with the bearing to the outside onto the crank and secure with a cotter pin. Once in place bend ends around.

Step 9 — Position the leather into the slot in the treadle rail and secure with a  $\frac{3}{4}$ " (20mm) round head screws.



Step 10 — Locate the 2 maiden uprights I and J into the maiden bar K and secure with 1" (25mm) pan head screws. As it will be necessary to twist the uprights to remove the flyer do not over tighten these screws.

Step 11 — Thread a cup hook into the back and screw hook into the front of the maiden bar.

Step 12 — Position the maiden bar into the table and thread the belt tensioner L in place.

Step 13 — Secure the small block to the underside of the maiden bar with 1" (25mm) raised head screws. Tighten sufficiently to allow smooth movement of the maiden bar.

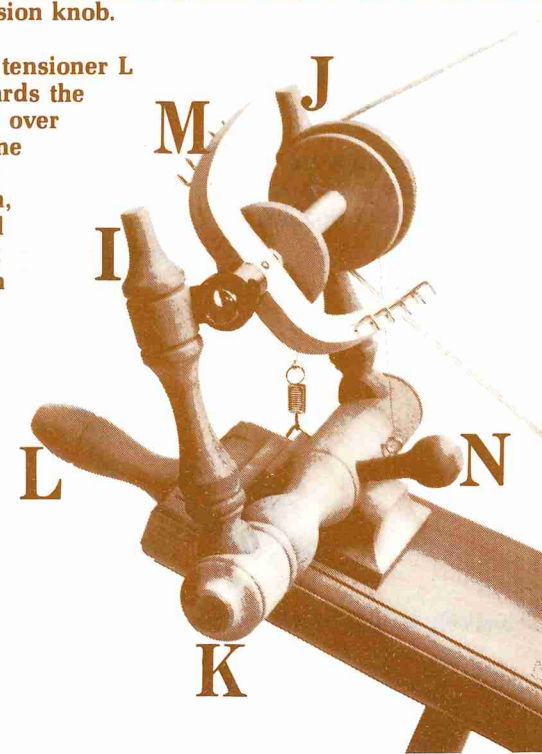
Step 14 — Thread the cup hooks into the flyer M.

Step 15 — Place a bobbin on the spindle, thread on the flyer whorl until tight and position between maiden uprights.

Step 16 — Place the tension knob N into the maiden bar. Tie the tension spring to the brake band. Hook the spring onto the cup hook and place the brake band over the bobbin, through the screw eye and tension knob and tie a knot. When spinning with the double drive system remove nylon from bobbin and wind excess around tension knob.

Step 17 — Unwind the belt tensioner L to the end of its travel (towards the wheel). Place the drive belt over the wheel and wrap it in one continuous band around the bobbin over the wheel again, around the large flyer whorl and tie the 2 ends. Tighten the belt tensioner until both flyer and bobbin rotate.

Step 18 — Assemble the lazy Kate by placing the brass rod through the 2 uprights and gently hammer them into the base,



## SPINNING ON YOUR ASHFORD ELIZABETH SPINNING WHEEL:

1. **Select the larger flyer whorl when learning or spinning coarse fibres and the smaller flyer whorl when spinning fine fibres.**
2. **To adjust the rate of bobbin take up increase or decrease the drive belt tension with belt tensioner L.**
3. **To convert your wheel to the scotch tension system, position both drive bands onto one flyer whorl and place the bobbin brake band over the bobbin whorl and locate the spring onto the screw hook. The wheel will now spin a soft yarn and allows faster take up when plying.**
4. **The 10mm ( $\frac{3}{8}$ " ) bush fits in the orifice for fine spinning. When not in use tie to the brake tension band.**

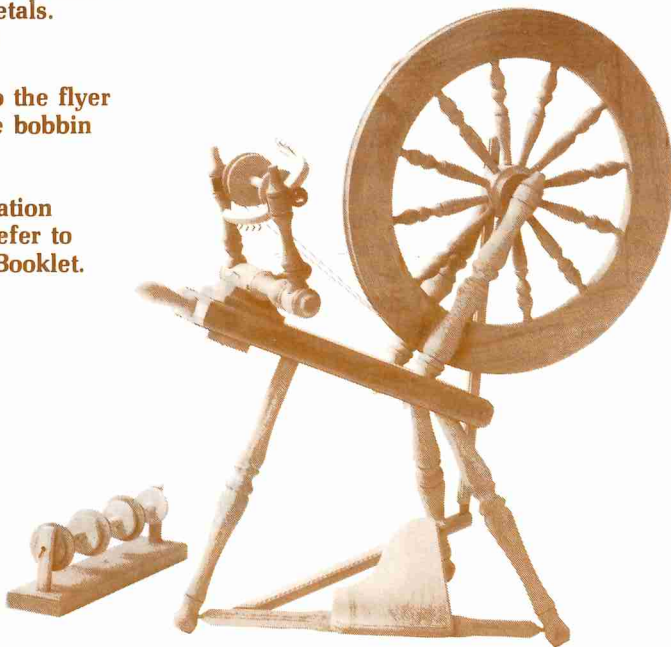
### MAINTENANCE:

After the timber has been sealed, drops of oil must be applied to:—

1. **Wheel support bearings.**
2. **Connecting rod bearings.**
3. **Treadle rail metals.**
4. **Flyer bearings.**

**Vaseline applied to the flyer spindle will reduce bobbin noise and friction.**

**For further information on handspinning refer to the Learn to Spin Booklet.**



Exclusively designed and Manufactured by:

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