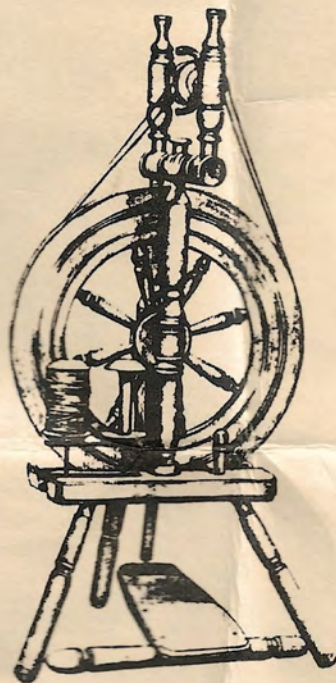


ORKNEY

SPINNING WHEEL

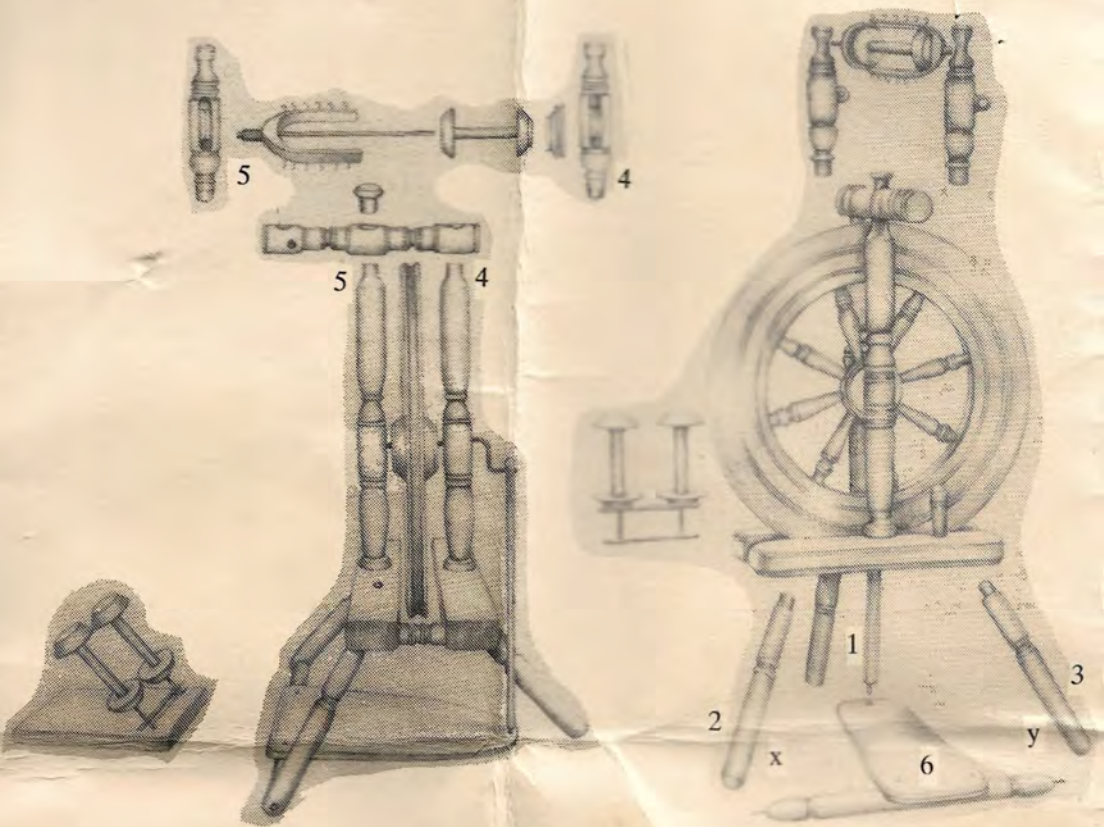
ASSEMBLY INSTRUCTIONS



HALDANE

THE SPINNING WHEEL MAKERS

HALDANE & CO,
(WOODTURNERS) LTD.,
GATESIDE, STRATHMIGLO,
FIFE KY14 7ST, SCOTLAND



ASSEMBLY INSTRUCTIONS

Please read these instructions carefully, making use of the illustration.

First check all the parts against this list:

- ✓ 1 Base with two wheel supports and wheel with driving band (packed as one unit)
- ✓ 3 legs (numbered 1, 2 and 3)
- ✓ 1 Crossbar (4 and 5)
- ✓ 2 Maidens (4 and 5)
- ✓ 1 Pedal and footman (6)
- ✓ 1 Flyer unit
- ✓ 1 Threading hook
- ✓ 1 Lazy Kate (metal), 2 spare bobbins
- ✓ 1 Separate lazy kate base only
- 1 packet containing 2 split pins, 2 screws with washers and 1 wooden plug.

Now by referring to the illustration proceed to assemble the spinning wheel as follows:

Fit the legs 1, 2 and 3 into the corresponding holes in the base. On legs 2 and 3 ensure that the holes X and Y are opposite each other.

Place the pedal (number 6) in position with the pin in the hole Y. Take the other pin from leg 2, insert it through hole X then into the pedal shaft. Tap it home with a small hammer. Connect the footman to the crankshaft. The legs are a taper fit so they may be tapped lightly with a mallet.

Remove the packing piece from the top of the wheel supports, then take the driving band from the wheel and lay the double loop outside the wheel support 4. Fit the crossbar so that the numbers 4 and 5 coincide. Fasten the crossbar with the two screws and washers, fit the wooden plug. Soap or vaseline on the screws will assist with fixing. Now lay the double loop on the crossbar, above the wheel. Fit the maidens 4 and 5 in their respective holes on the crossbar. These can be tightened by pushing them further into their holes. The top of maiden 4 should be turned anti-clockwise to allow the block which it controls to rest at the bottom of its slot. The flyer unit can now be placed in position between the maidens remembering first to pass the driving band over it. The maidens may be twisted to allow for fitting. They also control the position of the driving pulley above the wheel.

Double Drive Band

The 'double' band is actually one long piece of suitable cord passed around the main wheel twice. The cord is passed under the main wheel, over the bobbin whorl (pulley), under the main wheel again and over the larger of the two flyer whorls. A 'cross' will form naturally in this double circuit.

Treadling causes the drive-band to turn both bobbin and flyer simultaneously. The flyer inserts twist into the yarn, and the spun yarn is wound onto the bobbin (clockwise) because the smaller diameter of the bobbin whorl causes the bobbin to revolve at a faster rate than the flyer, but as long as the tension on the drive band is not over-tight the bobbin will slip and only wind on the amount which you feed through the orifice. As the bobbin fills it becomes heavier and tension on the drive-band will need to be increased by turning the rear maiden clockwise.

The front maiden is adjustable so that the flyer shaft can be kept horizontal at all times.

Single Drive Band

Customers may use a single drive band from wheel to driving pulley in combination with a brake band over the bobbin pulley. A kit of parts is enclosed with the wheel. (peg, brake band and guide hooks).

This is designed to give the spinner a choice of spinning method. A particular advantage is that it enables a small diameter, high speed pulley to be used with the existing bobbins.

Driving Pulleys

Haldane make a range of driving pulleys to give the different twist ratios.

A kit of parts is available.

No 0 5.3 and 4.5:1

No 1 7 and 5.7:1

No 2 8 and 6.5:1 (supplied as standard)

No 3 9 and 7:1

No 4 10 and 8.8:1

Spinning

For the best results use the bobbins with a U-shaped groove.

Plying

Set the two bobbins of spun yarn on the bobbin holder frame using the separate base. Place them either behind or beside the spinner. A chair will give the correct height.

Ply onto the bobbin with the V groove.

Bobbin Storage

The bobbin holder frame will fit onto the base of the wheel. This is for bobbin storage. We do not recommend plying from this position.

ADJUSTING YOUR SPINNING WHEEL

For the best results all moving parts must move easily.

The Pedal

Disconnect the footman from the wheel. Hold the footman clear of the floor, and check that the pedal moves easily on its pivot pins. If not then you should twist the legs until it does move easily. Now tap the legs with a mallet to drive them further into the base, checking after a tap on each leg, that the pedal still moves easily. Oil the pivot pins.

Wheel and Pedal

Connect the footman to the crankshaft and oil the crank pin where the footman hangs on it. Practice treadling the wheel.

Flyer and Bobbin

When the bobbins have wooden shanks you should oil inside the spindle hole to ensure that each bobbin runs smoothly. Screw on the whorl (driving pulley), this has a left-handed thread. Check that the bobbin is still free to revolve when the driving pulley is tight. Do not over tighten the pulley.

The tension adjuster maidens should be pushed in as far as possible with the adjustment set to the middle of its range. Oil the leather bearings. Replace the bobbin and flyer without the driving band. Check that the flyer spins freely and that the bobbin revolves freely on the flyer shaft. Refit the driving band.