

Hand crafted spinning wheels and a wide range of woolworking tools for beginners and experts

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## MILLIE DOUBLE TREADLE SPINNING WHEEL

### INSTRUCTIONS FOR ASSEMBLY AND USE

PLEASE READ THESE NOTES BEFORE YOU UNPACK THIS BOX

**1** Your wheel has been assembled at our workshop; it has been tested; it has been spun upon. The wheel has been packaged to allow a minimum of assembly. All possible checks have been done.

Please unpack with care and retain the packaging. You will receive:

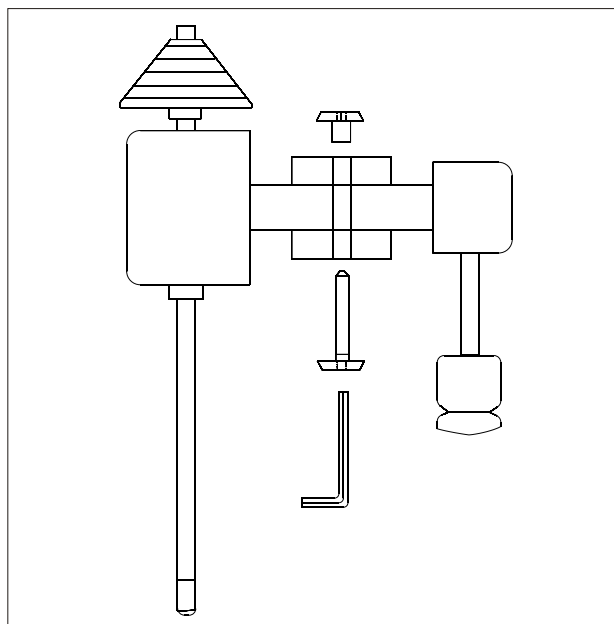
- a base complete with handle column/spine/drive wheel assembly
- an 'inner' box
- four bobbins
- Instruction sheets, warranty card and Majacraft user's manual

The inner box will contain:

- the spinning head
- two pedals
- crank assembly,
- flyer
- hardware (screws, etc) in a clear plastic bag. spare screws are included.

Tools required for assembly are an allen key (provided), and a No. 2 Phillips screw

**2** Assemble the spinning head to the column using the supplied "L" shaped allen key from the plastic bag of loose parts to unscrew one end of the gold headed bolt that crosses the slot in the top of the stem. Remove the bolt, install the spinning head in the slot then replace the gold bolt through the head and the handle, tightening enough to hold the head firmly in place.



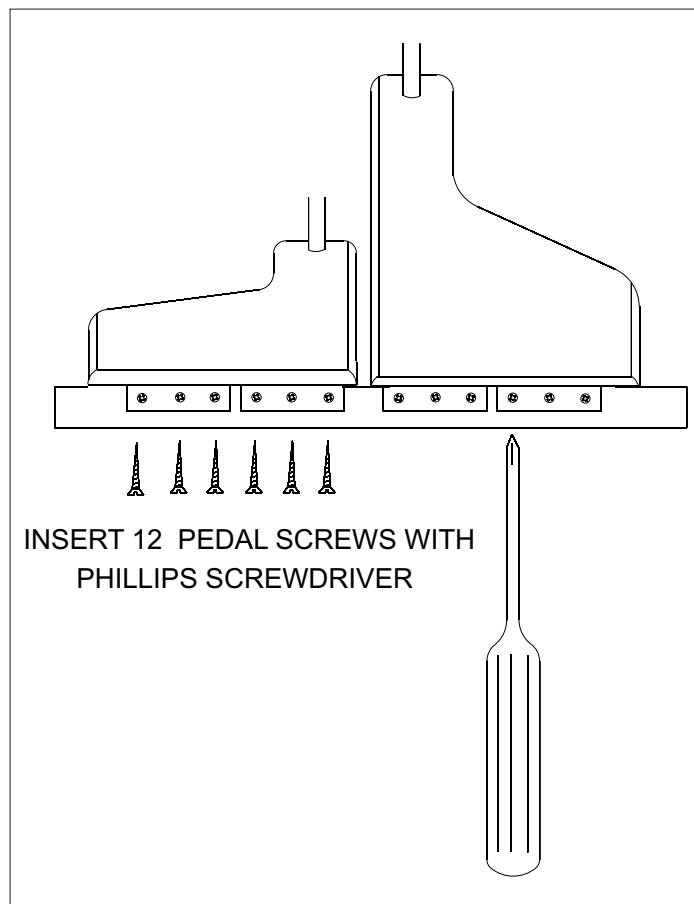
Use the allen key provided

*The option exists to have a left hand or right hand orifice position, choose the side which will suit you and your method of spinning. Never mind if you get it wrong, you can easily change it later.*

**3** Fit the stretchy green drive belt onto the flywheel and the spinning head whorl. Check that the belt will be tight enough on the smallest whorl groove/largest wheel groove combination, and tighten the allen bolt firmly through the spinning head using the key provided. You can adjust the tension on the drive belt by tilting the head slightly.

**4** Fit the pedals using the twelve gold  $5 \times \frac{3}{4}$ " screws provided, matching the holes in the pedal bar at the front of the base. The long edge of the treadles goes in the middle.

Insert the pedal screws with a phillips screwdriver



**5** Take the crank assembly and screw it to the drive wheel using the 1" silver coated screws and aligning the flat plate with the screw holes in the wheel hub.

*There are three holes arranged so that you can only fit the crank the correct way.*

Loosen the small silver screw that is in the con rod end, then fit the end of the silver connecting rod to the green joiner that is left in the pedal

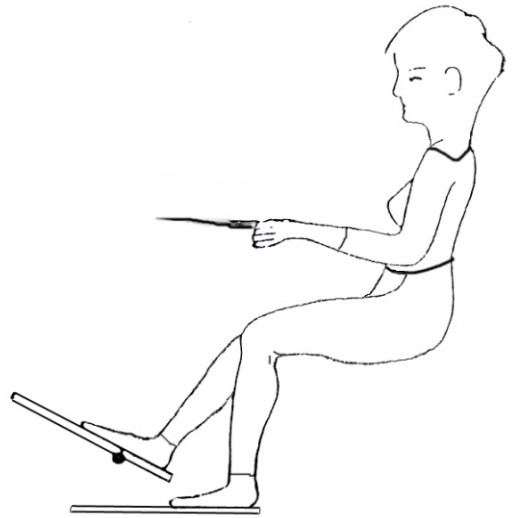
*We leave one green flexible joiner in one rod and one green joiner in a pedal to ensure that you connect the silver conrod to the correct pedal*

Tighten the small screw on the connecting rod end to the green joiner left in the pedal and then tighten the gold screw in the pedal onto the green joiner left in the other connecting rod. The joiner should be more or less level with the underneath of the treadle. Ensure that the central ball shaped bearing in the crank assembly is parallel to the drive wheel. You may need to turn the green joiner in the treadle to achieve this.

At this point it is a good idea to put a drop of oil on the central crank bearing and lightly oil the bobbin shaft.

- 6** Fit the drive band into the grooves nearest to you when facing the front of the spinning wheel, forget about fiber for the moment, get yourself a chair and....

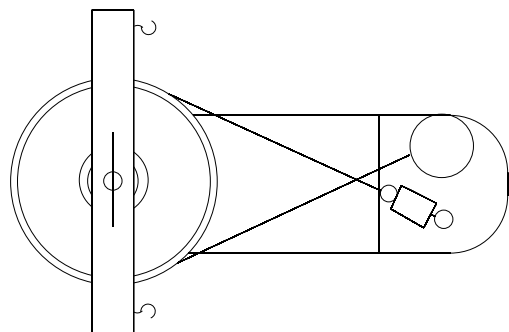
*place your heels as shown in the sketch. The treadles are angled to ease foot strain, sit down firmly, sit back, please do not sit too close to the wheel and now treadle with your ankles, relax*



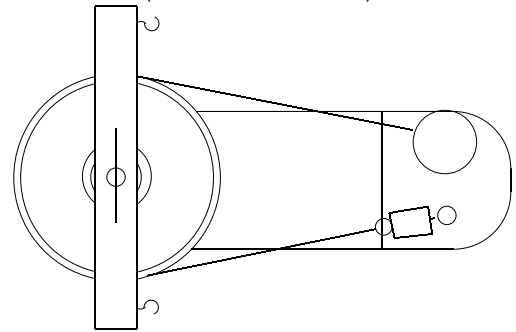
- 7** When you are comfortable about pedalling, you can start spinning. Ensure the brake band is crossed over the flyer shaft, then install a bobbin onto the shaft. Place the brake band into the bobbin flange groove and tighten the band tension knob enough to lightly pull on the brake band spring. Screw the flyer onto the end of the bobbin shaft and tighten it lightly while holding the whorl steady to achieve this. Your spinning head is now set up to spin to the right (clockwise or 'Z' twist). Uncross the cord to ply your yarn or to spin 'S' twist.

- 8** Tie on a leader yarn and lead the fiber from the bobbin, around the inside loop of the stainless steel flyer hook around the plated cup hook and down through the stainless steel wire "delta" on the front of the flyer... With your hands comfortably in your lap, spin straight into the delta.

BRAKE BAND CROSSED FOR CLOCKWISE SPINNING



BRAKE BAND POSITION FOR ANTI-CLOCKWISE SPINNING  
(GENERALLY PLYING)



*Tie your leader around the core and not through the holes  
A piece of scotch tape will secure it firmly.*

- *the bobbin is thin walled, lightweight and very responsive to tension adjustments.*
- *it has an increased yarn capacity.*
- *it has super smooth cord grooves*
- *ends are identical and can be installed either way round*
- *it may be immersed in boiling water and other substances to set twist and dyes*

- 9** To move the sliding flyer hook just squeeze the wings gently and slide it. Bobbin filling can now be even, no more hills and valleys and it will be easier for unwinding.
- 10** To spin wool fibers use the drive wheel/whorl grooves nearest to you. As you change to Merino, silk, cotton, etc, you will be using the grooves further away from you.
- 11** It is correct practice with a band brake, which is what your scotch tension is, to spin with the pull of the cord on the tension knob and not on the spring, the spring is there to provide constant tension and not to flutter under the influence of bobbin rotation.
- 12** IMPORTANT: Spin clockwise with the brake band crossed, with the cord going from the knob, down under and around the bobbin and back down to the spring. Uncross the cord to ply or spin anti clockwise.... see the previous sketches showing the yarn path, they also show the brake band crossed for clockwise rotation. Always use the minimum tension for satisfactory draw in and no more. There is sufficient spare cord supplied for you to remove a worn piece, and please, if you have to replace it, use a braided material and NOT mono filament fishing line which will cut a groove in any bobbin.
- 13** Keep bobbin grooves clean. Cotton and silk must be spun with virtually no tension, no friction drag of any dirt in the groove and the flyer shaft must be clean too. Give the shaft a wipe with very light oil and wipe it off again.
- 14** The woodwork of your wheel has been varnished with a pre-catalysed lacquer, a wipe with a damp cloth is usually all that is needed, a drop of detergent on the damp cloth for a really dirty wheel may help. A mark made by a hard knock can be masked by putting a drop of furniture or linseed oil on the spot and allowing it to soak in. Please note that like all natural timber products your wheel needs to be kept away from direct sunlight, hot fires and if possible, extremely dry or humid environments. Majacraft has a polish made from organic lavender oil and manuka beeswax which is very effective in keeping your wheel attractive.
- 15** Ratios available on the MILLIE are eleven in number, the principal ratios are .....
- |                              |        |
|------------------------------|--------|
| <b>largest whorl groove</b>  | 4:1    |
|                              | 5.25:1 |
|                              | 7:1    |
|                              | 9.25:1 |
| <b>smallest whorl groove</b> | 12:1   |
- 16** An oil can is unnecessary with your Majacraft spinning wheel. Maintenance is low and our suggestions are:  
Apply vaseline on the flyer shaft occasionally to reduce bobbin noise.  
The hinges need oiling from time to time.  
The centre crank bearing is teflon coated and many be oiled with a small drop annually.  
Don't at any time use too much oil - it is messy and can attract grit and dust to the moving parts.

## 17 Accessories for your Majacraft wheel include:

- Lazy Kate with tension device
- Dolphin niddy noddy
- "E" system
- Baby bobbin set
- Lace kit
- Fast whorl for fine spinning
- Wheel skeiner - fits on in place of the flyer
- Plying set

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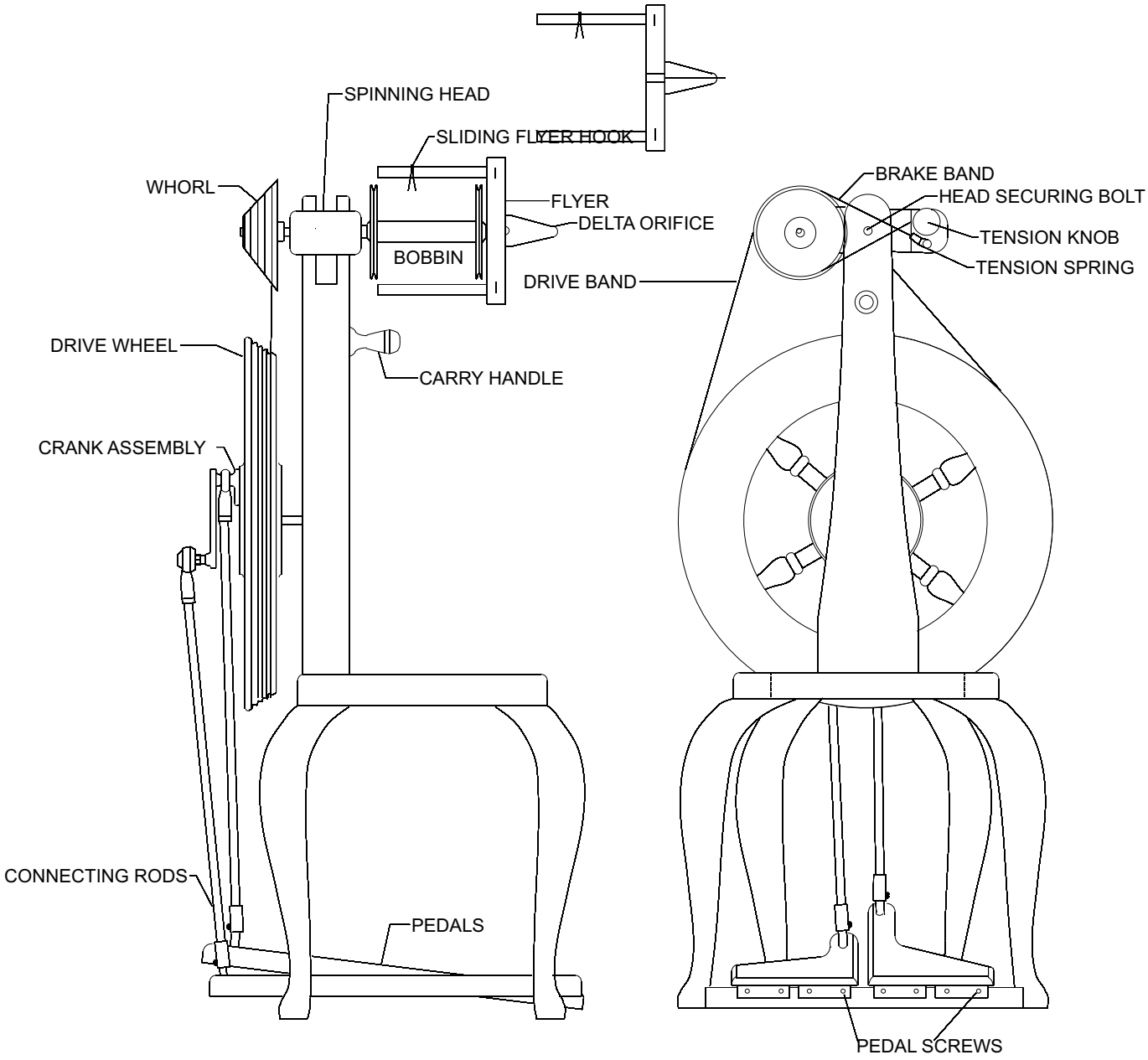
Visit our web site at [www.majacraft.co.nz](http://www.majacraft.co.nz) to learn more or contact your dealer for a full colour brochure.

**Majacraft guarantees to replace or repair all faulty parts free of charge for two years from original purchase. Fair wear and tear resulting from usage excluded. In the unlikely event of a failure please contact your dealer.**

### WARNING

There are many moving parts on spinning wheels when in use. It is possible that moving parts could cause injury.

We urge you to take care and be aware of others, especially small children, so that your spinning brings a lifetime of pleasure.



MILLIE SPINNING WHEEL