Your new

Pioneer

spinning wheel

majacraft

all you need to spin your dreams...

Welcome to the Majacraft family

Congratulations on purchasing a new Majacraft Pioneer.

We are very proud of this wheel and hope that it allows you to express your creativity in new and exciting ways. Take time to read through the instructions before assembly, it really is worth it.

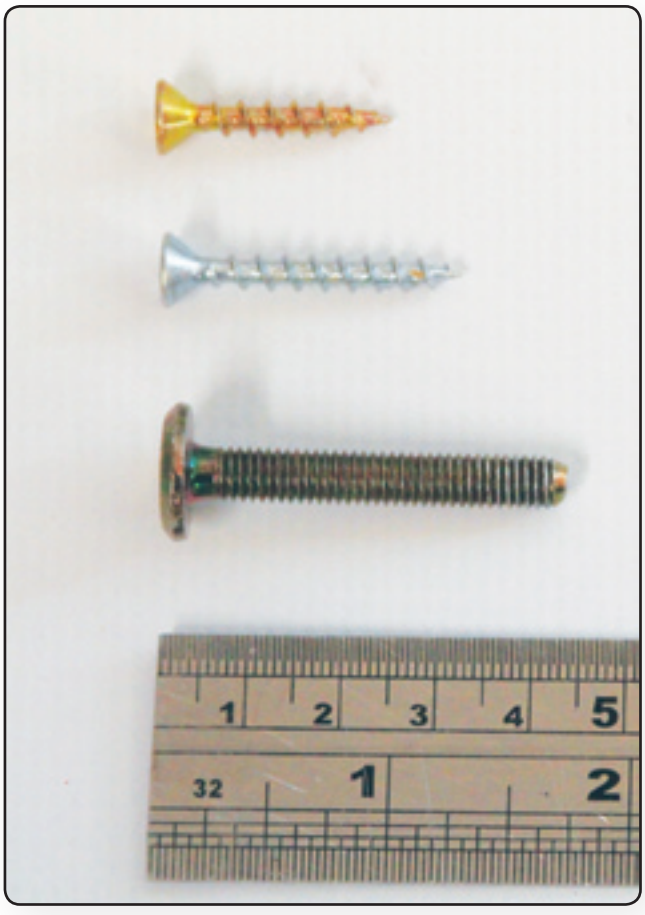
One of our goals is to make our wheels as easy and simple to use as possible, so they become almost invisible as you express your creativity through fibre.

If you were not already aware, we have designed all of our craft tools and accessories to be compatible with each other. If you have an interest in a specific technique, we are likely to have specialist accessories that will fit straight on to this wheel or tools to make creating easy. Talk to your dealer, visit our web site or email us directly and we will do what we can to help.

Thank you for choosing Majacraft, it is your belief in us that drive our innovation and creativity in building captivating tools for you.

From the team at Majacraft, good spinning!

Fastener Details



Joiner screws - 25mm (1”)
To attach the rubber joiners on the conrods to the pedals

Crank screws - 38mm (1 1/2”)
To attach the crank assembly to the drive wheel

Base bolt - JCB 40mm (1 1/4”)
To hold the base and stem assembly together

majacraft

Assembling a Majacraft Pioneer

These instructions demonstrate how to assemble your Majacraft Pioneer spinning wheel.

1. Prepare the components

We recommend that you find a clear work area where you can lay out all the components for working on them.
The following tools are provided by Majacraft
- 5mm allen key
- 4mm allen key
- 2mm allen key

You will also need the following tools:
- Posidrive (Philips) screwdriver

Please unpack with care and retain the packaging. In the box will be:

1 Base/Pedal assembly
1 Stem/Brace assembly
1 Head assembly
1 Drive wheel with drive axle
3 Plastic Bobbins
1 Flyer
1 Crank and Conrod assembly
1 Hardware Bag (screws, etc) spare screws are included

2. Attach stem to base assembly

Required:
3 - M6 40mm JCB (1 1/2") bolts *(in the hardware bag)*
4mm allen wrench *(in the hardware bag)*
Stem assembly
Base assembly

2a

2b

majacraft

You will require the three 40mm JCB bolts. The 4mm allen key is necessary. Position the base assembly on it's edge and then push the JCB bolts through from underneath. Take care that the pedals do not swing free and become damaged.

2c

Align the JCB bolts with the threaded holes in the stem and the brace. Use the 4mm allen key to screw the JCB bolts into place.

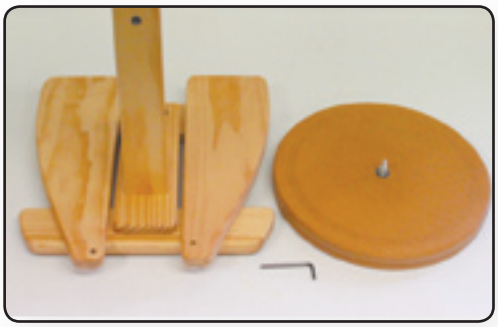
2d

2e

Do not tighten the bolts fully yet. Repeat this with the remaining two JCB bolts. When they all in place then tighten bolts securing the stem onto the base assembly.

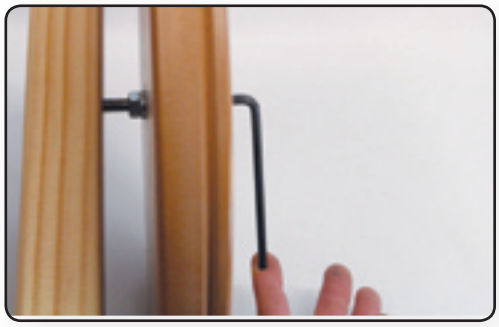
3. Attach drive wheel to stem

Required:
5mm allen key *(in the hardware bag)*
Base/Stem assembly
Drive Wheel



3a

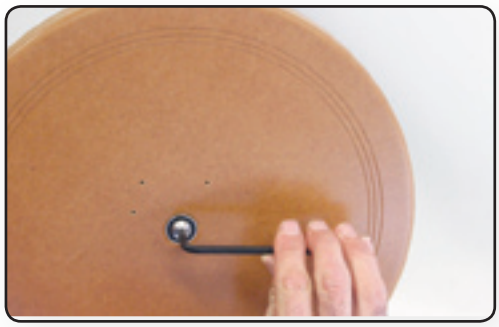
majacraft



3b

The drive wheel has the axle already in place. Align the end of the axle with the threaded insert on the stem.

When located correctly, use the 5mm allen key to screw the axle bolt into the stem. Tighten it firmly



3c

3d

3e

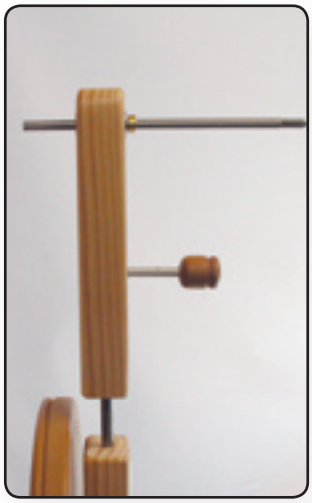
The drive wheel is now attached to the base/stem assembly.

4. Head assembly on to stem

Required:
Head Assembly
Base/Stem Assembly
Hex Lock Bolt

4a

majacraft



4b

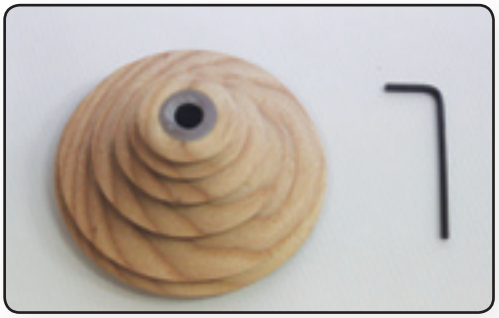
Slide the 10mm stem pin that is glued into the head assembly down into the hole at the top of the stem.

4c

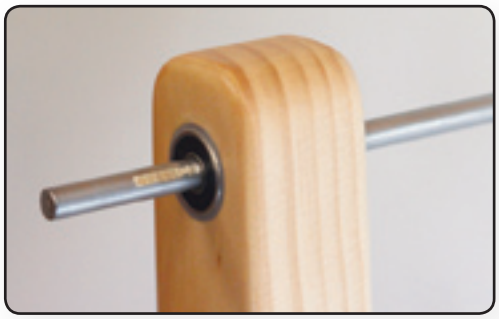
Screw the wooden hex lock bolt into the hole on the side of the stem to lock the head into place.

5. Pulley on to Flyer Shaft

Required:
Pulley
2mm allen key *(in the hardware bag)*

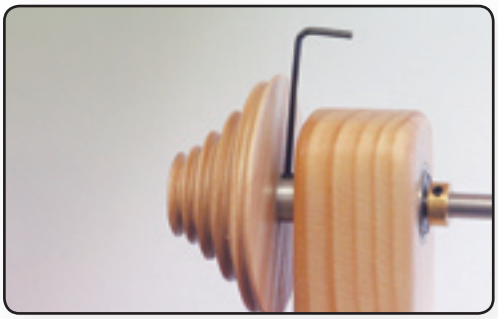


5a



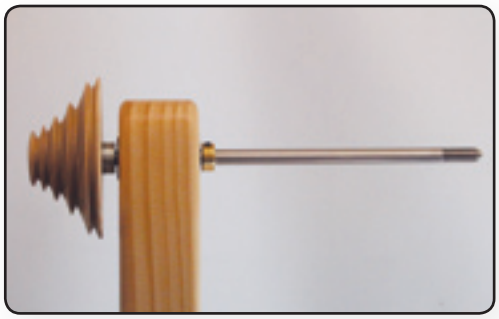
5b

Find the small flat ground on the flyer, it will be near the bearing on the head. Turn the flyer shaft so the flat is on top.



5c

Slide the pulley onto the flyer shaft. Align the grub screw over the flat on the flyer shaft. Then use the 2mm allen key to tighten the grub screw and secure the whorl on to the flyer shaft.



5d

majacraft

6. Drive Band

Required:
1 - Green drive band *(in the hardware bag)*

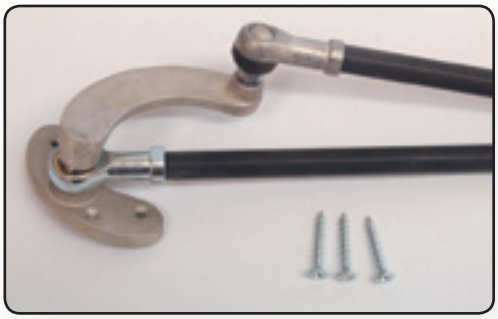
6a

6b

The green drive band goes on the groove on the drive wheel and then through one of the grooves on the pulley.

7. Crank Assembly

Required:
Crank assembly
3 - Silver 38mm (1 1/2”) screws *(in the hardware bag)*
Posidrive screwdriver



7a

The drive wheel has been predrilled with the holes for the aluminium crank assembly which line up with the holes on the crank assembly. Make sure the drive belt is on before starting!

7b

Align the holes on the drive wheel with the holes in the crank assembly and screw it into place using the posidrive screwdriver on the silver 38mm screws. It is recommended that you insert the centre screw first. This will reduce your chances of possibly scratching your drive wheel.

Similar to the base/stem assembly process, do not fully tighten the centre screw until you have aligned and started screwing in the two screws on the sides.

7c

majacraft

7d

When the three screws are all in place, you can finish tightening them up.

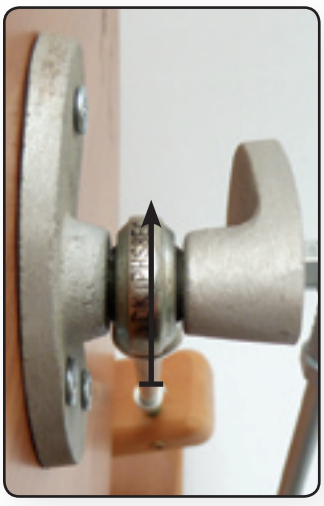
8. Conrods to Pedals

Required:
2 - Gold 25mm (1”) screws *(in the hardware bag)*
Posidrive screwdriver

The green joiners have already been put in place in the black fibreglass conrods. Place the wheel in front of you so the crank and drive wheel are facing you.

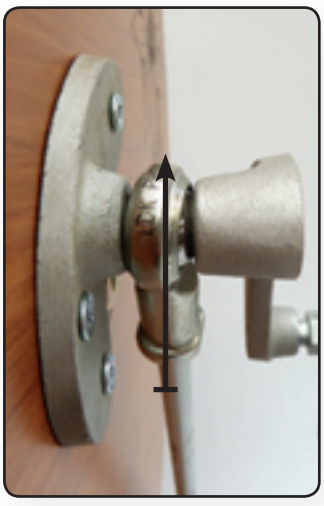
We will start with the pedal on your left hand side. Select the conrod that is CLOSEST to YOU. It is on the end of the curved arm and is attached to the crank assembly with the special right angle rod end connector. Push the green joiner into the hole at the end of the pedal until it protrudes by about 5mm. Check the alignment of the rod end in the crank assembly as shown in the images below. You may need to twist the green joiner in the pedal to correct the alignment. When the rod end is aligned correctly, screw the 25mm gold screw in the pedal into place.

Now work on the pedal on your right. Obviously there will only be one available conrod now. The one that is CLOSEST to the DRIVE WHEEL. Push the green joiner through the hole in the pedal end into the right hand pedal. It should protrude through the bottom of the pedal about 5mm. Check the alignment of the inner rod end in the crank assembly. When the rod end is aligned correctly - parallel with the face of the drive wheel - screw the 25mm screw back into place. The screw should only be tightened until the head just touches the side of the pedal. DO NOT OVERTIGHTEN!



8a

CORRECT

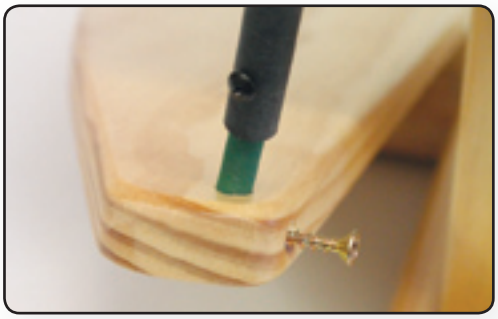


8b

INCORRECT

majacraft

8c



8d

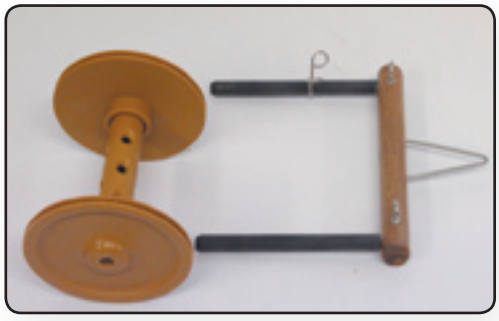
8e

8f

EXTRA
If you are not certain of the connection arrangement, here is a full description. Place the wheel directly in front of you so you are looking at the crank assembly attached to the drive wheel. The rubber joiner that is on the conrod/footman that is closest to you goes into the hole in the pedal on your left. The joiner on the conrod that is furthest from you goes into the hole in the pedal that is on your right.

9. Bobbin, Flyer and Scotch Tension

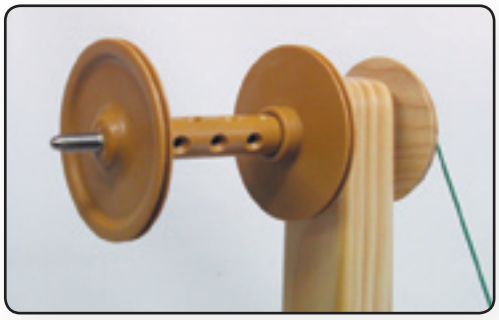
Required:
1 - Bobbin
1 - Flyer
1 - Tension knob, spring and string assembly



9a

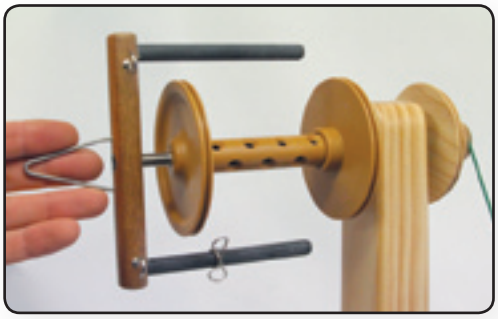
If you have some petroleum jelly or vaseline, rub a small smear onto the flyer shaft. This has already been done at the factory so is not essential.

majacraft



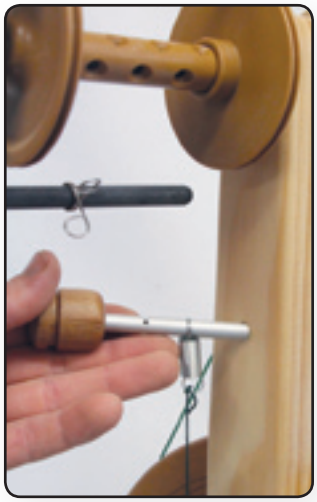
9b

Firstly slide the bobbin on to the flyer shaft.



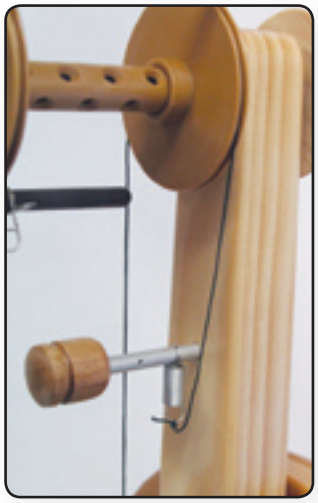
9c

At this point screw the flyer on to the flyer shaft. It may help to hold the pulley with your left hand and tighten the flyer with your right (assuming you are right handed). It may also be treadled on by holding the flyer in one hand and treadling the drive wheel in an anticlockwise direction.



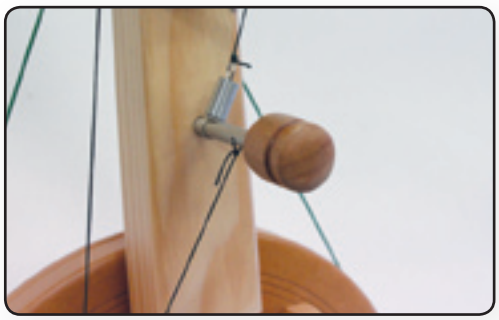
9d

It is time to put on the tension knob and spring. Start by sliding the loop on the tension spring onto the tension knob shaft. Use the spring loop that does NOT have the brake band attached. Now slide the tension knob into the hole on the head.



9e

When looking at the wheel from the front (the pedal side), loop the brake tension band over the top of the bobbin from the right hand side over to the left hand side.

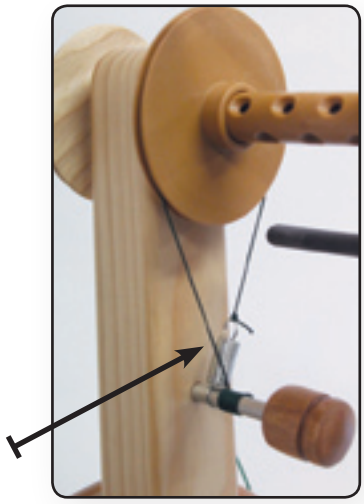


9f

Tie the tension band on to the tension knob shaft through the small hole in the shaft. We typically use a reef knot to secure the string. You can now turn the tension knob to wind the string on to the shaft until the tension only just takes up. Refer to the Majacraft Spinning Manual for a more thorough description on setting the tension.

majacraft

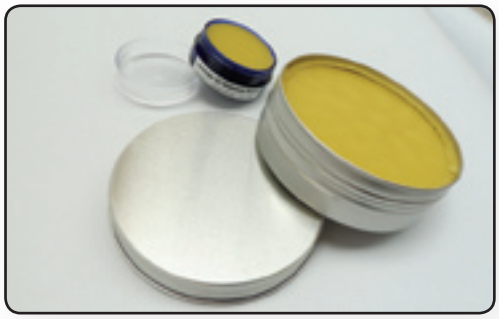
Here is a more detailed image of the arrangement of the tension spring.



9g

10. Polish

At this point, we recommend that you polish your Pioneer using Majacraft Lavender Polish or alternatively a standard wood polish. While not essential, it will help keep your Pioneer looking great into the future.



10a

Your Majacraft Pioneer is now assembled and you are ready to start on a new spinning adventure! From the team at Majacraft, we wish you great spinning in the future.

Note

The images contained in this instruction manual are a guide only. There may be slight differences in your own Pioneer.