

Fancy Kitty Big Tom Carder

Anderson Originals & Fancy Kitty Products

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PLEASE BE AWARE!

- 1. This product has sharp pointed wires***
- 2. Extreme care must be taken in its use***
- 3. Improper use may cause serious injury***

!!!Please read ALL of these instructions and go through the Maintenance check list prior to operating your new carder!!!

Operation Procedures for the Fancy Kitty Big Tom Drum Carder

The operation of the Big Tom cottage drum carder is very simple with just a couple things to remember.

A layout of the switch panel is located directly below. From left to right you will find the following switches.

Licker-in forward/reverse switch

Licker-in on/off switch

Licker-in speed control switch

Swift speed control switch

Swift on/off switch

Swift forward/reverse switch



To start carding turn the licker-in on/off switch to the on position.
Adjust the licker-in speed to the desired speed by turning the speed control knob to the desired position.

Place the swift on/off switch to the on position.
Adjust the swift speed control to the desired speed by turning the speed control knob to the desired position.

The speed control on either the licker-in or swift may be adjusted at any time during the carding process by turning them to the desired position.

At any time when you wish to stop the swift, it is much better for the life of the carder if you first slow the swift to a very slow speed by adjusting the speed control prior to turning the on/off switch to the off position. The swift represents a heavy amount of mass and the motor will stop suddenly when the power is turned off.

CAUTION: always turn the motors on the licker-in and swift to the off position, prior to turning the forward/reverse switch to the opposite position. Failure to do so can damage your carder.

Use caution when placing fiber onto feed tray. NEVER put your fingers near the licker-in when it is turning.

Do not allow small children in the area while you are operating the carder.

Do not wear loose clothing or jewelry that might get caught in the belt/pulley system while operating the carder.

ALL power tools are dangerous. PLEASE use the same caution & respect when using this tool that you would give any sharp power tool.

Caution....Caution...Caution

There is a break in period on all carding cloth where a small amount of metallic dust may be deposited on your fiber. We would like to suggest the first couple of batts you card should be of a dark or gray color fiber, and not a bright white.

After a the first couple of batts any metallic residue should be removed and you can continue with all colors without a problem.

Adjusting the Big Tom Cottage Industry drum carder

The carder is pre-adjusted to a good starting position prior to shipment. However, even when we pack them extremely carefully, occasionally the drums will get moved in transit.

Prior to powering up the carder, please rotate the drums by hand to make sure they have not been moved. There should be about 1/16 inch space between the licker-in (small drum) and the swift (large drum). The wires should not touch at any point in the rotation. If they do touch or the gap between the drum is excessively large then it will be necessary to readjust the drum(s) as outlined in the steps below:

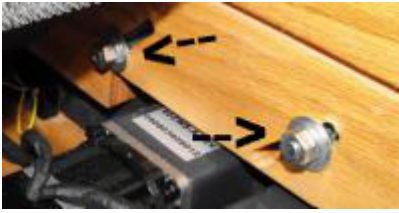
Step 1:

Look at the backside of the swift. The distance between the wires on the swift and the back of the carder frame should be equal on both sides of the swift and about 3/8 inch from the carder frame. If they are, the swift is in an acceptable position.

Step 2:

If the licker-in is to be adjusted, you must first loosen the licker-in tooth belt idler tension pulley. This is the small silver pulley that holds tension on the tooth belt. To do this remove the feed tray. Inside you will find 2 bolt with nut just above the motors. The first one is the licker-in idler pulley and the second is the swift idler pulley. Select the first one for the licker-in and using a ½ inch or 13mm wrench hold the nut while turning the philips head bolt counter clockwise until the idler can be moved away from the tooth belt.

If the swift was to be adjusted, follow the same procedure, but use the 2nd bolt rather than the first. See Figure A:



Step 3:

Loosen the four licker-in or swift adjustment screws (licker-in screws have the arrow... Swift screws do not) in figure B.

Figure B:



move the licker-in in the direction required one end at a time. Then tighten the hold down screws snugly.

If the swift is to be adjusted follow the same procedure but loosen the swift hold down screws and the 2nd bolt for the idler pulley.

Step 4:

The finishing step is to re-tighten the idler pulleys. Push the pulley down until the tooth belt is tight and while holding the nut with the ½ inch or 13mm wrench, turn the screwdriver clockwise to tighten the nut. After finishing, check to make sure the tooth belt is tight. If it is not tight, repeat step 4 until it is tight.

Maintenance

There is very little maintenance required on the Fancy Kitty Big Tom drum cottage industry carder. All axles run in sealed ball bearings that do not require lubrication.

On a daily basis prior to operating the drum carder please use the hex key provided to check/tighten the pulley set screws on all four pulleys by inserting it into the set screw and turning it firmly clockwise. There will normally be no movement on the set screw, but it is a very good idea to do this procedure check.



Check this distance between the carding cloth on the swift and licker-in to make sure it is correct. If adjustment is needed, please follow the provided adjustment procedure.

In order to keep the red oak carder case in good condition, it may be necessary to apply a coat of good furniture oil or wax on a regular basis.

If you follow these simple steps, you should get many years of carding service from this carder.

All of our Drum Carders now come with a free copy of our DVD (Fancy Kitty: Drum Carding Basics) that visually explains the set up of your carder, various fiber preps that can be made with the carder, carding basics, maintenance & cleaning. The DVD can also be purchased in our shop if you purchased a carder second hand or previous to the DVD being available.

Using a Drum Carder.

Spinners have always been impatient with carding and fiber preparation. In days past, children were often given this job. Or if a spinner lived near a mill and could afford its services, she would have the carding done there. Likewise, many of today's spinners bypass carding almost entirely, by spinning mostly roving or sliver - two mill preparations originally devised for mechanical spinning.

When spinners rely on drum carders in an attempt to streamline fiber preparation, it is important that they learn how to use these tools well. Certain basic methods and techniques can greatly increase the efficiency and effectiveness of a drum carder - while others waste time and increase the amount of work.

Getting Ready to Card

A drum carder works best if you feed it a small amount of fiber at a time - or, better yet, thin layers of fiber. If you attempt to feed a carder too much fiber at once, you may jam the machine, bend its teeth and/or tear the fibers. With wool and other fairly long fibers, this means that it's usually a good idea to start by fluffing up the fibers to eliminate thick clusters. Many spinners use a picker in this time-consuming but important process, while others open the clusters of fiber by hand.

The First Round

For best results, I suggest first teasing the fibers with a wool picker or hand cards prior to carding with the drum carder. Because the main objects of teasing is to prevent damage to the fiber and the card clothing, to promote a smoother end product, and to make carding easier.

Another method if you would rather let the drum carder do the teasing. here's how to tease without working yourself into a lather.

Instead of feeding unteased fibers through the feeding chute - where jams often occur - lay them directly onto the main drum from the top, where you can see what is happening at every moment. Grasp a small handful of fiber or a couple of good-sized locks. Hold them firmly, and allow a few fibers to begin catching in the teeth as you turn the drum. Let the fibers be pulled gradually from your hand, being careful to keep your knuckles away from the teeth. (The fibers will not feed in gradually if the wool has been abused in washing, and has become tangled or felted so that it is hard to pull apart.) It's all right if a small cluster escapes your hand, but if a large one gets away, stop the machine, back it up (if necessary), and redistribute the fibers. After a few of these episodes, you will learn how large a fiber cluster your carder can handle. When the drum is full, it is unable to process additional fiber.

How much is too much? Each type of carder can efficiently handle a different amount of fiber. The capacity depends on the drum size and the length of the teeth. However, you can see when loaded clothing is reaching its capacity. You need enough tooth exposure to pick and comb incoming fibers. You can also feel and hear when the clothing becomes too full: the handle will turn with difficulty, even though no new fiber is being added, and you'll hear a muffled, rubbing sound.

Doffing

Taking the fiber off the card clothing is called doffing. Often a doffing rod, or similar device, is used to lift the fiber away from the drum. Most carder manufacturers provide a doffer, but an old, long, steel knitting needle, an old ice pick, or a painted steel rod will do nicely. (Aluminum knitting needles are not strong enough.) Be sure that your doffer is not so sharp that it damages the backing of the card clothing. The doffing of wool, which is a typical long fiber and gives as much difficulty as any substance you will encounter (after wool, cotton is a breeze.)

First, turn the loaded drum so that the seam of the card clothing is exposed. This is where the two ends meet and are tacked down, and you'll most likely find a row or two of teeth missing at this point. You might think that you can slide the doffer under the batt and lift up one end. If this is cotton or short wool, you can - but any long fiber will present a dense mat which will not come apart without a struggle. Start at the far edge and slide the doffer under an inch or two (2.5 - 5cm) of the batt. Lift this, allowing the fibers to slide apart. Although you may need to pull very hard, don't tear the fibers. If you think damage is imminent, try a smaller amount. Then work your way across the drum until you have opened the entire batt. Now one end of the batt is free, but the rest is still caught in the teeth. If you pull up gently on the loose end while turning the drum backward, most of the fiber will lift away - but not all of it will. The closer you get to the end of the batt, the more fiber will remain in the teeth - often as much as half the thickness at the end. Use the rod to lift the batt away from the drum as you pull the free end of the batt up and back. Note that you can even do this if the teeth on your card clothing are arranged diagonally. To lift away the entire batt, use these motions but repeatedly slide the doffer under the batt about 4 or 5 inches (10 - 12.5 cm) ahead of where it is being lifted free. Lift with the rod, then pull on the loose end. Back up the drum and repeat. In a few moments the batt will lift entirely free of the teeth. A word on doffing mesh. Some people like this way of handling the task. The mesh is an open net that fits the card clothing - you can buy or make one. It is laid into the teeth and pushed all the way down before carding begins. At unloading time, the fibers are loosened at the tail end of the mesh and the mesh is pulled up out of the teeth, bringing the fiber with it. However, I'd rather doff with a rod and not fiddle around so much. When both sides are firmly held, pull apart. The two halves will retain the original flat configuration. The idea is to separate each batt into thin sheets of fiber which you'll feed back through the carder.

Between Rounds

You are now ready to re-card, but don't try to feed the entire batt into the carder at once. If you do, your carder will become overloaded, the carding will be incomplete, and the machine will jam. Finally, the poorly carded fiber will be difficult to spin smoothly. After the first carding, the texture of the batt will be uneven, but it will have two characteristics of completely carded batts: the layered arrangement and the lengthwise grain of overlapping fibers. You can use these characteristics to quickly prepare the fiber for the next step. At this point, some people pull a strip from the side of the batt and fluff it into a thin layer. Again, I don't like to spend this much time on the task. In the amount of time it takes to pull off and spread out one strip, you can probably prepare a whole batt with my method. Place your hands on the front and back sides of a batt, and pull it into two halves - imagine that the batt is a magazine, and you are grasping (and crumpling) the back cover and about half the pages (the classified ads) in one hand, and the front cover and about half the introductory pages in the other. Gently pull. Repeat this with each half a couple more times, until you have thin sheets. Now divide each layer in half lengthwise and you are ready to send the fiber back through the carder.

Second Round

You will now be feeding the fiber through the feeding chute, in the "normal" way. But don't completely rule out the possibility of feeding from the top again - some fibers card better from the top, while some do better from the bottom (the chute). Try both techniques and see what

you think. Remember to keep the layers thin, and take the time to pull apart any sections of the divided batt that seem to be too thick. A second invested here can make a big difference in how thoroughly your machine cards. Slide a narrow edge of the fiber layer under the licker-in until you feel the machine begin to draw it in. Now you need to retard the fiber's progress slightly, to keep it from being drawn in too rapidly. But don't hold it back too firmly, or the fiber will wrap around the licker-in (the little, feeding drum) instead of being transferred to the swift (the big, carding drum). To get an idea of how much to hold the fiber back, just do it wrong a couple of times. Then you'll know exactly what is required. Some people lay a hand lightly on top of the fiber layer in the chute, but I like to give each layer a series of quick, light tugs, which both slow the progress and thin out the layer being drawn in. Both methods work.

Fiber on the licker-in

Even when you are feeding the fiber correctly, some will stay on the licker-in. Curiously, it will probably load to a certain level and then stay there for a long time. If you conscientiously clean it out, it will quickly reload again to that point. So don't spend more time than is really necessary keeping it free from fiber. In any case, unless you have already carded the fiber several times, the stuff on the licker-in will be real junk, dirt, second cuts, and other uglies. Don't be frugal. Pitch it.

Cleaning a drum carder

This job is even more bothersome than cleaning hand carders, because it takes longer and is more frustrating. Of course, you can leave bits of fluff embedded in the teeth, especially if you always process fibers of similar color and texture. But I advise against this, especially if you have been working on protein fibers-which attract wool moth larvae and carpet beetles.

These pests can be transferred in turn to everything you run through the machine.

You might as well clean your carder, starting with the licker-in, because it's hard to clean that part without transferring a bunch of stuff onto the swift. Remove the junk batt from the licker-in as you would a regular batt, while doing your best to keep the swift from taking it. Get most of the trash off, but don't bother to get it all - you will have to clean this part again at least once. Now clear the swift of clumps or wisps of fiber by lifting them off with the doffer. There probably will not be enough residue to form a complete layer, but keep sliding the rod deep into the teeth so you can remove as much as possible. Keep pulling the fibers out of the teeth with your free hand - the third one, which is not turning the handle. Or you could use a flicker-like drum rake, sometimes supplied with the carder or available for separate purchase. If there is any noticeable amount of fiber in the teeth, however, the doffer is probably the fastest at this point.

Now look at the licker-in. What did I tell you? Ignore it for now, until the swift is cleaner.

The rake works well at this point for combing through the teeth and lifting out stray bits of fiber. Always comb with the grain of the teeth, and go as deeply into them as you can. Pull the bits of fiber out of the rake as you retrieve them, so they don't get redeposited.

When the swift is fairly clean, go back to the licker-in; then repeat your efforts on the swift, and so forth. A drum carder is a bed that never stays made, but eventually it will be quite clean. And the whole mop-up operation will take only three or four minutes in all.

If you want the card clothing really clean - for example, if you are changing colors - there is one more thing to do. Nothing is more frustrating than to go from black wool to white and then discover that the first batts have dark fibers mixed in. To prevent this, I use my secret weapon. As a standard accessory for your drum carder, get a strong, stiff, long-bristled hairbrush. It will pick up the last fibers that have resisted your previous efforts: keep brushing up and lifting out, working with the grain, and watch more fiber come away from the drum.

That should do it. But if you are, indeed, switching colors, check again in good light - it pays

to be paranoid.

Spinning from a batt

For speed and ease of spinning, I don't think you can beat the little batt from hand cards. That's why I like to hand card my drum-carded batts. However, because I see spinners struggling to spin drum-carded fibers, I want to offer some tips on minimizing the trouble. As in other fiber preparations (such as sliver and roving) where the fibers are laid out in a continuous, overlapping strip, it's difficult to get the fibers in a drum-carded batt properly attenuated before they lock up. There are several ways around this problem. Some spinners work with short pieces of roving or sliver folded over the ends of their index fingers, retaining and controlling the fiber supply with the rest of their fingers. This technique diminishes fiber overlap and makes spinning easier, because the fibers are pulled off the tip of the finger and enter the twist zone folded in half. You can use this method to spin drum-carded batts of medium to long fibers. Pull a narrow strip from the side of the batt and divide into 3 to 4 inch long segments (7.5 - 10cm), depending on the length of the fibers. Fold a strip over the end of your index finger and hold onto its tail, just as you would a roving. You will have slightly less control than with the standard long draw, and your spinning will be slower, but this works reasonably well if the carding was very thorough. You can also take these segments of a narrow strip and spin them from their ends. Draft off the side of the fiber segment and not straight off its end. This will keep a moderate amount of fibers feeding into the twist and will help prevent clumps from locking up the drafting zone. It's possible to divide the fibers across the grain, instead of with it. Lay a hand or a ruler across the end of the batt, about 3 to 4 inches (7.5 - 10 cm) from one end (again depending on the fiber length). Carefully pull away a strip across the end grain. Divide this into two or three parts and you will have fiber groups that look like hand carded batts- not quite as good, but manageable. If you want to spin with a long draw, you can use either of these divisions - lengthwise or crosswise. As with roving or sliver, however, do not try to attenuate fibers from the middle of the fiber supply. Instead, tilt most of the fibers away from the twist zone and spin off the bottom or side of the mass. Because the fibers overlap, you will probably need to work farther from the twist than you would with a hand-carded batt. And work with a small amount of fiber at first until you are familiar with how fibers interact in a batt. Especially with protein fibers, which have "smooth" and "rough" directions, you will find that each batt has a "grain" and that it spins more smoothly in one direction than another. If you keep all your segments aligned as you divide them from the batt, you will be able to work "with the grain" throughout your spinning.

Product Warranty

Your new product is warranted for one year for all parts and labor. This warranty covers any defects in workmanship or manufacture.

All hard parts, including the frame, points, bearings, and screws have a limited lifetime warranty. They are warranted for defects in parts and workmanship to the original purchaser for normal wear and tear.

The manufacturer will have the final decision on normal wear and tear.

It will be at the option of the manufacturer to repair or replace the defective part(s).

Damages caused by abusive use of the product, are not covered under this warranty.

Satisfaction Guarantee

If for any reason you are not satisfied with your purchase, you may request a return authorization to return the product to our location within 14 days of receipt of the product.

The product must be returned postage paid in new condition, in the original shipping boxes, packed in the original packing, including all instructions.

Upon receipt of a product returned in new condition with a proper return authorization, you will be refunded the full purchase price less shipping.

Please telephone 660 379 2323 (Mon-Fri 9-5pm Central time....ask for Kris) or email kris.fancykitty@gmail.com and request a return authorization number prior to making a return shipment.