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# Assembly Instructions for the Fancy Kitty Motorization Kit

These instructions are for all motor kit installations. There are a couple slightly different procedures for the Little Tom and Little Tom XL and they will be noted.

First check to see if all the parts are present in the kit you received. They are listed in **figure A**. (These parts will be the same for the Kitten, Kitten XL wide, Little Tom, and Little Tom XL wide motor kits. The only differences are in size).

**Figure A**



You will need;

Hammer

$\frac{3}{4}$ " Wrench

Phillips screw driver

Clamps

Drill

1/16" or 3/32" drill bit

After you have procured the tools required, proceed to the next step.

The handle may be removed from the carder by removing the acorn nut with a 3/4 inch wrench. Turn is counter clockwise to remove it as shown in **figure B**.

**Figure B**



After removing the acorn nut, try to remove the handle using a back & forth movement. Occasionally the handle will be stuck on pretty solidly. If this is the case, it may be necessary to tap it loose with a stick & hammer as shown in **figure C**.

**Figure C**



When the handle has been removed, the next step is to remove the spring or roll pin that was holding the handle from turning on the shaft. It may be removed by using the blunted nail punch. Place the blunted end straight above and touching the roll pin. Tap on the punch until the pin falls out as shown in **figure D**.

**Figure D**



After the pin has been removed the next job is to mount the swift pulley on the axle. It

is installed with the smooth side toward the carder. If it is very difficult to install, there may be a bur on the axle and it might need to be burnished or sanded a bit. To do this use the emery cloth included in the installation kit. Sand it on all sides turning it about 1/3 turn per sanding, in the manner indicated in figure E. If the pulley is still too tight to install repeat the procedure until it fits snugly but can be installed on the shaft.

**Figure E**



Once the swift pulley is on the shaft, install the new roll pin that came in the installation kit. Do this by placing the pin in the hole in the axle and pecking it gently with the hammer until it will stay in place. Then using the provide punch, continue to hammer it in until only about ¼ inch is protruding from the axle as shown in **figure F**.

**Figure F**



After the pin is installed, pull the pulley toward the pin, make sure the pin fits into the slot cut into the pulley. Using the hex key provided in the kit tighten the set screw in the pulley (by turning it clockwise) to hold it in place, as shown in **figures G & H**.

**Figure G**



**Figure H**





**Little Tom and Little Tom XL wide carder only.** Remove the rubber feet as shown in figure I.

**Figure I**



At this point you must drill the mounting holes in the motor kit. Do this using a 3/16<sup>th</sup> inch wood bit. With the motor kit upright measure 1.5 inches from the front and 2.5 inches from each side and make a pencil mark. This will be the point to drill the mounting holes. Repeat this procedure for the rear of the motor kit. SEE **figure H**.

**Figure H**



Next step is to stand the drum carder on the back end; place the motor kit directly in front of it as shown in **figure J**.

**Figure J**



It is best after carefully aligning the motor kit and the drum carder, to clamp them together so you can drill a small pilot hole ( $1/16^{\text{th}}$  or  $3/32^{\text{nds}}$ ) prior to installing the clamping screws.

Install the 4 clamping screws as shown in **figure k**.

**On the Kitten and Kitten XL only.** Install the tooth belt onto the black pulleys at this time. (See **figure K** prior to installing the clamping screws)



**Figure K**



**Kitten carder and Kitten XL Only**

The next step is to install the drive belt. First place the drive belt on the motor or bottom pulley as shown in **figure L**.

**Figure L**



This step is much easier if you have an assistant. Next, place the carder on the top of the motor kit with the side opposite the pulleys tipped into the air about three inches as shown in **figure M**.

**Figure M**



The tooth belt may now be installed on the top pulley. Now lower the carder until both sides are on the motor kit base. It fits snugly, so you sometimes have to give it a very hard push to seat it. When it is in the correct position, all the rubber feet on the carder should be in contact with the motor base. Make sure both top and bottom pulleys are aligned. If they are not, loosen the set screw on the bottom pulley by turning it counter clockwise, and move the pulley until it is aligned with the top pulley. Tighten the set screw by turning it clockwise.

**On the Kitten and Kitten XL wide only:**

Plug the power cord into an outlet, turn the switch to on, adjust the speed control to the desired speed and have fun carding.

**On the Little Tom and Little Tom XL wide:**

After installing the clamping screws install the silver “Idler Pulley” as shown in **figure N**.

**Figure N**



Install the tooth drive belt as shown in **Figure N**, Pull the idler pulley tight against the tooth belt and tighten the nut on the back side of the pulley. You are now ready to card fiber.

After installing the motorization kit, if you wish to adjust the spacing between the licker and the swift do so by adjusting the licker only. If you move the swift, it will affect the tension on the tooth drive belt.