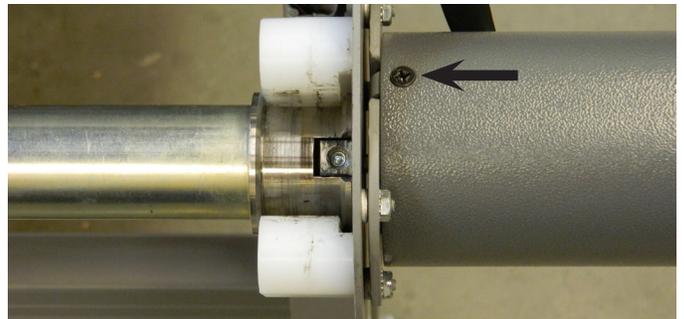Step 1: Tools needed: Phillips screw driver, 11/32" socket wrench, 5/64 allen wrench and a 1/8" allen wrench.
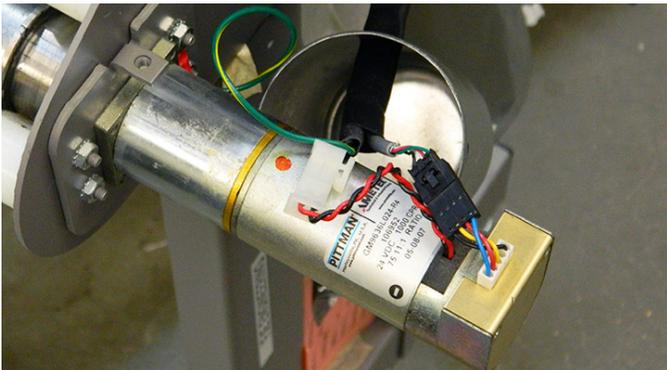

Step 2: This is the new planetary motor for your FJE.

Step 3: **Turn off the FJE. Unplug both, the power cord and the communication cable. NOTE: You do not need to remove the paper from the shaft if it is still on.**


Step 4: With the Phillips screwdriver, remove the (2) screws. The first screw is on top (black arrow), the second screw (not seen in the photo), is on the bottom.
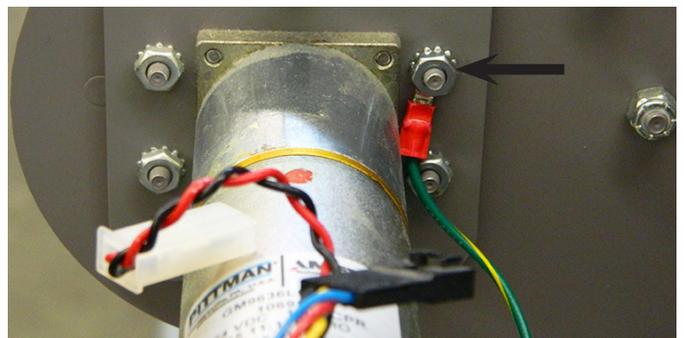

Step 5: After sliding the cover off, you need to disconnect the wires as shown in step 6.
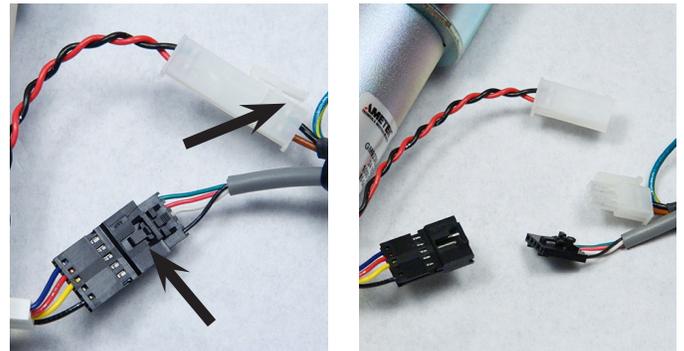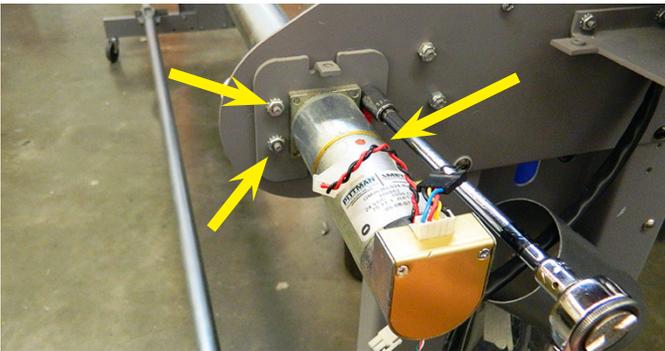

Step 6: (Left photo), a close up of the latches that need to be pressed to release the clips. You press at the point of the arrows, then pull apart as in the right photo shows.
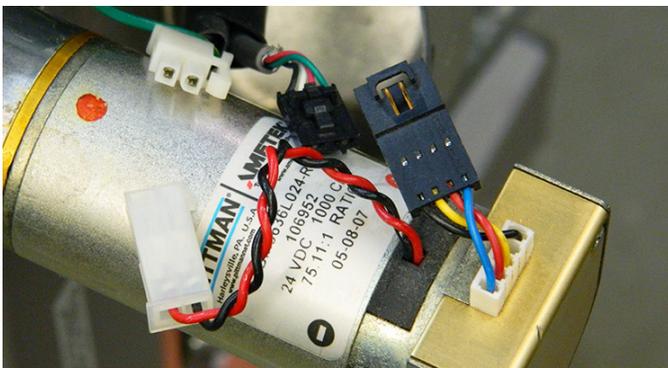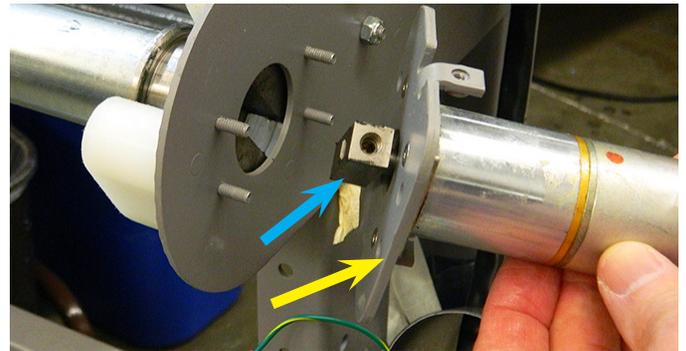

Step 7: This shows both wires disconnected.

Step 8: The arrow points to the locking nut that needs to be removed first. Unscrew the nut, then remove the grounding wire by pulling towards you.

Step 9: After removing the first nut, remove the remaining 3 locking nuts (arrows).

Step 10: You can now remove the motor. **NOTE: You will need to remove the key (blue arrow) and the base plate (yellow arrow). See steps 11-13**
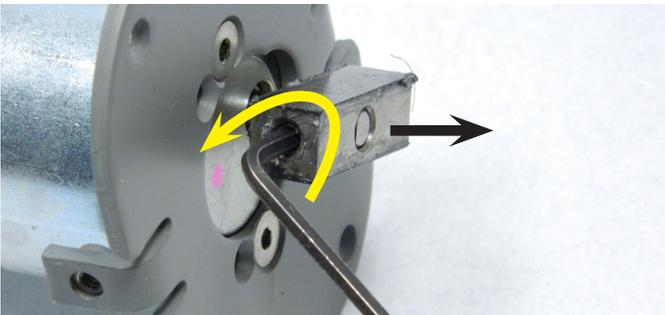
Step 11: With the motor on the table, use the 1/8" allen wrench to loosen the set screw 1/2 turn counter clockwise (yellow arrow). You can now remove the key by pulling straight off (black arrow).

Step 12: With the key removed, you now have access to the (4) hex screws that hold the plate to the motor.
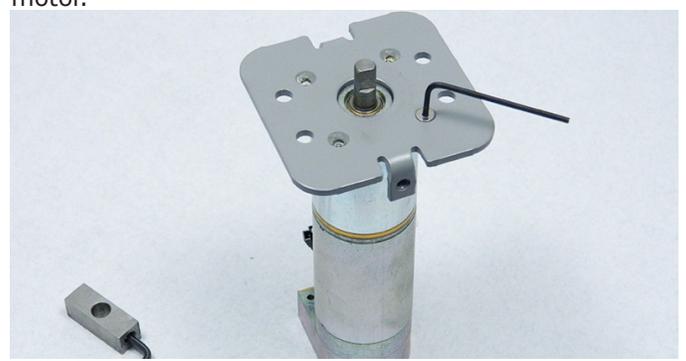
Step 13: With the smaller of the allen wrenches 5/64", remove the 4 screws from the plate as shown.

Step 14: You can now remove the plate from the old motor. Place the plate to the side and discard the old motor.

Step 15: With the new motor, place the plate on top and aligned as shown. **NOTE: Beveled screw holes face up (arrow).**

Step 16: Screw back in the (4) hex screws into the new motor with the 5/64" wrench as shown. **NOTE: They MUST be tightened all the way down so that the flat of the screw is flush with the plate.**
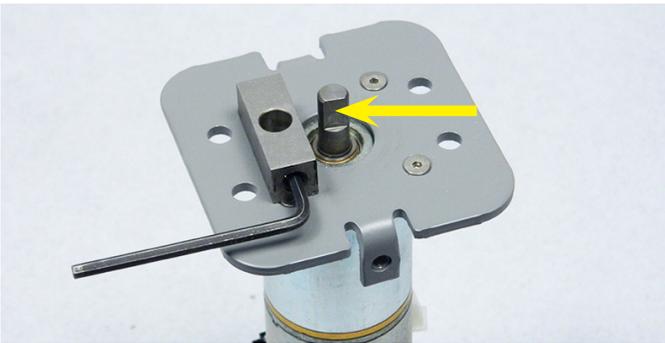
Step 17: The arrow points to the flat part of the shaft. It is **important** that the set screw in the key is fully tightened onto the flat section.
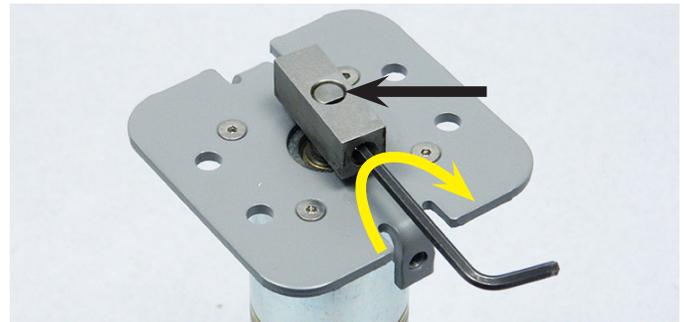
Step 18: Place the key onto the shaft as shown. **NOTE: The key should be flush with the top of the shaft (black arrow). Now you can tighten the set screw by turning clockwise until secure.**
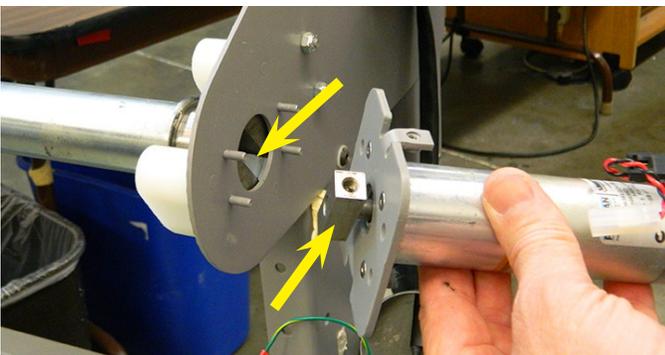
Step 19: You are ready to place the take-up motor onto the end plate. **NOTICE: The key is aligned to go directly into the slot of the take-up bar (arrows).**
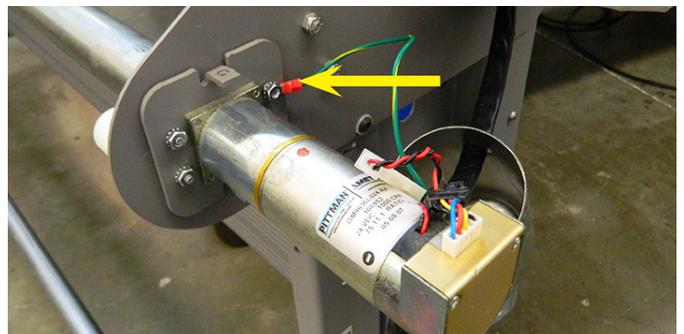
Step 20: **NOTE:** The arrow points to the grounding wire. It is placed over the threaded stud first, followed by the locking nut. Place all 4 locking nuts by hand. Do not fully tighten at this moment. **IMPORTANT: Make sure that the power cable is still disconnected. You can now reconnect both the power and the communication clips as seen in steps 5 and 6.**

Step 21: **You can now plug in the power cord and the communication cable back into the rear panel and turn on.** With the shaft still in (arrow), you will need to center the shaft with the new motor. To do this, press the **Up Arrow key** to rotate the take-up shaft. This will turn the shaft. When this begins, tighten the 1st locking nut as shown (blue arrow). This procedure will center the shaft. You can now tighten the remaining 3 locking nuts. Now press any key to stop the shaft **NOTE: If you see or hear any knocking/clunking, the shaft needs to be re-centered. Just loosen the locking nuts and do this step again.**

Step 22: Place back on, the take-up-motor cover and insert the 2 screws and tighten down. You are ready to resume printing.   **...FINISHED.**