

# Replace Spur Gear Motor on FlexJet E2 Product P/N 111101

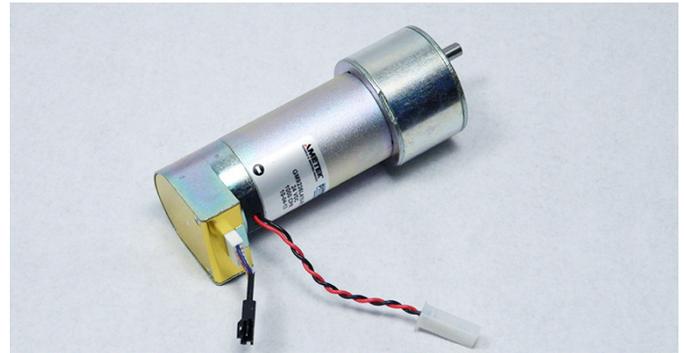
Procedure P/N 111254 REV 0



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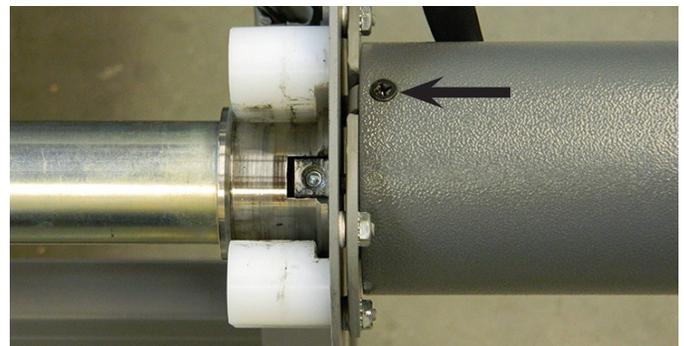
Step 1: Tools needed: Phillips screw driver, 1/8" allen wrench and a 11/32" socket wrench.



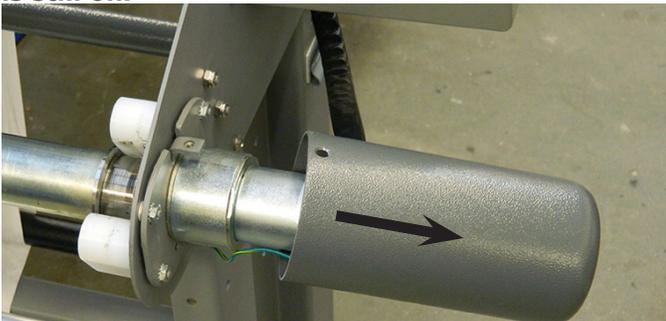
Step 2: This is the new spur gear for your FJE2.



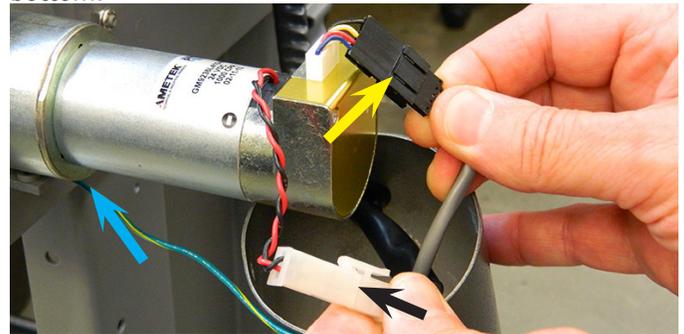
Step 3: **Turn off the FJE2. Unplug both, the power cord and the communication cable** NOTE: You do not need to remove the paper from the shaft if it is still on.



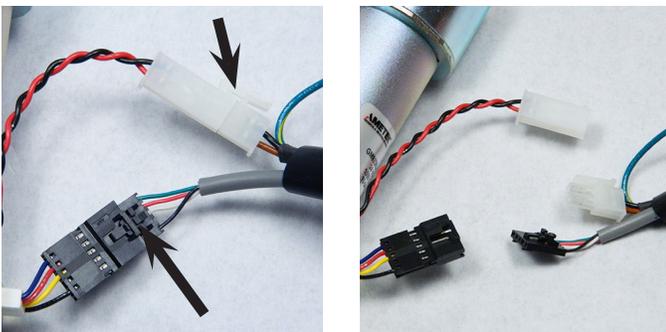
Step 4: With the Phillips screwdriver, remove the (2) screws. The first screw is on top (black arrow), the second screw (not seen in the photo), is on the bottom.



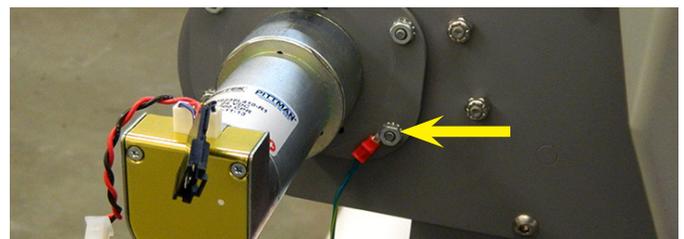
Step 5: Remove the spur gear cover in the direction of the arrow until it is free from the motor. **NOTE: Do not pull quickly. You still need to disconnect the wires when exposed as shown in step 6.**



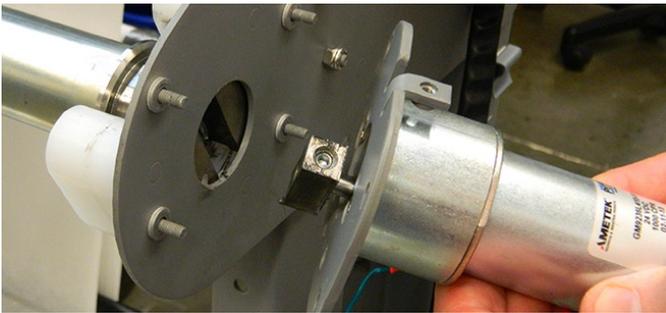
Step 6: You can now disconnect the black clip (Yellow arrow), the white power clip (black arrow)(see step 7). The grounding wire (blue arrow) is attached to the motor plate by one of the locking nuts. Once that nut is unscrewed, you can free the wire. **(See below in step 8).**



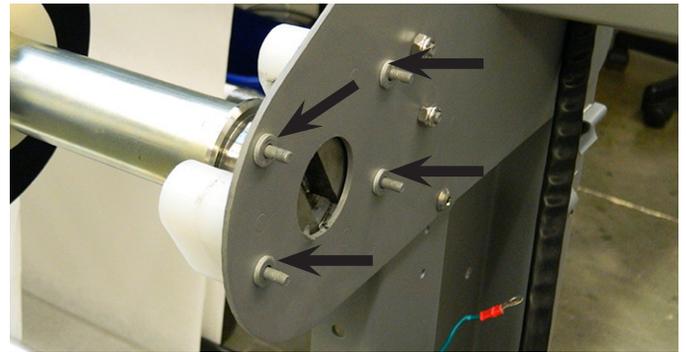
Step 7: (Left photo), a close up of the latches that need to be pressed to release the clips. You press at the point of the arrows and pull apart. They will disconnect as in the photo on the right shows.



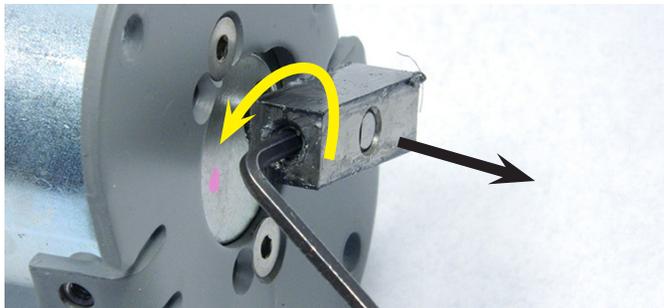
Step 8: The yellow arrow points to the grounding wire nut. Remove this locking nut first, then pull the wire towards you. You can now remove the remaining (3) nuts to remove the motor, key and the base plate.



Step 9: With all (3) wires now disconnected and the 4 locking nuts unscrewed, you can remove the motor, the plate and the key (1 unit). **NOTE: You will need to place this motor on a table to remove the plate and the key.**



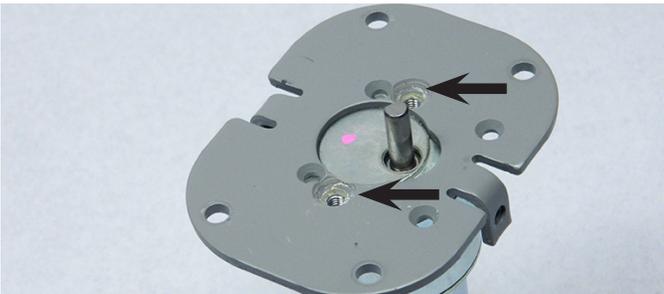
Step 10: The motor has been removed. **NOTE: The (4) washers (arrows), remain on the threaded studs.**



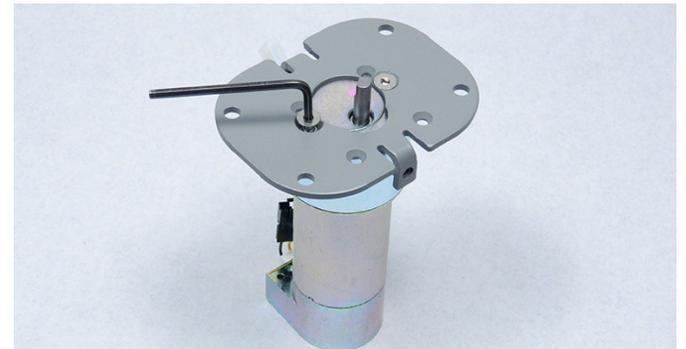
Step 11: With the motor on a table, use the allen wrench to loosen the set screw (1/2 turn counter clockwise). You can now remove the key by pulling it straight off the shaft (black arrow).



Step 12: With the key removed, you have access to the (2) hex screws that hold the plate to the motor. With the same allen wrench, remove both of these screws and remove the plate from the old motor.



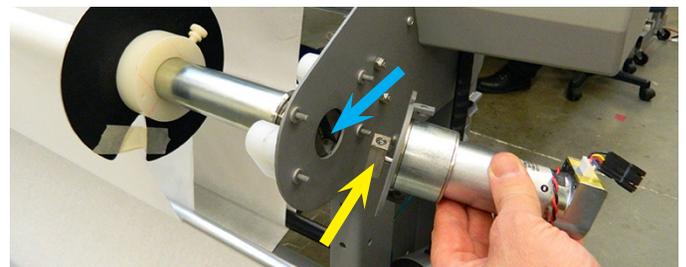
Step 13: With the new motor, place the plate on as shown. **NOTE: The beveled screw holes (arrows), face up as shown. The plate needs to be oriented as shown.**



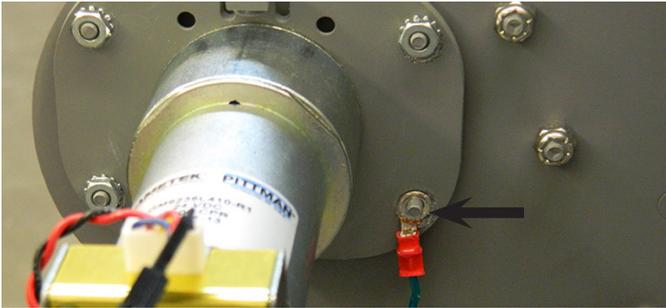
Step 14: Screw back in the 2 hex screws into the new motor as shown. **NOTE: They MUST be tightened all the way down so the flat head of the screw is flush with the plate.**



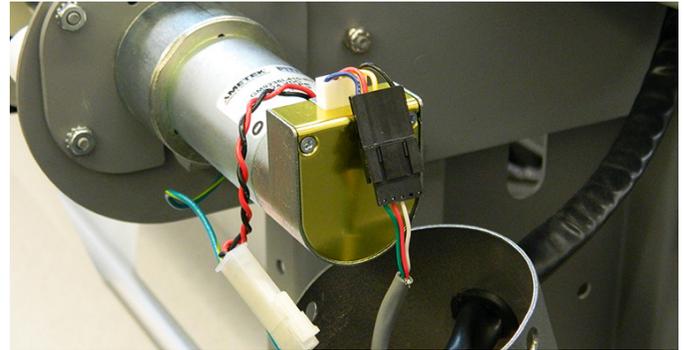
Step 15: With the plate secure on the new motor, attach the key and tighten the set screw. **IMPORTANT: The set screw MUST be on the flat portion of the shaft and tightened. ALSO: The key needs to be flush on the shaft as shown (arrow).**



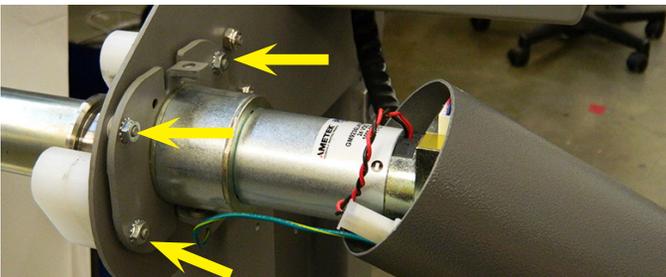
Step 16: You are now ready to place the new motor, plate and key back on the FJE2's end plate as shown. **The key (yellow arrow), needs to be aligned with the shaft's hub slot (blue arrow). NOTE: You can rotate the key by hand to fit if necessary. POWER IS STILL OFF.**



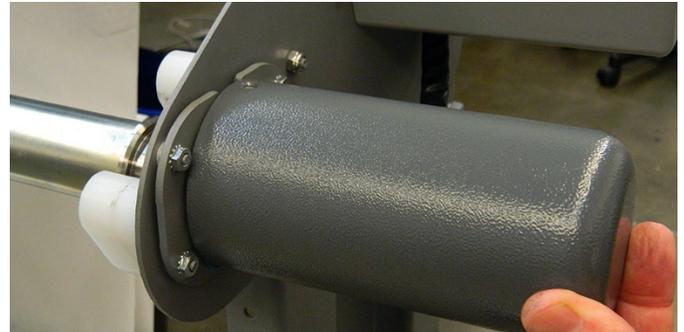
Step 17: The new motor has been placed correctly. The 3 of 4 locking nuts have been attached (but not tight at this moment). The last locking nut needs to have the ground wire attached first as shown (arrow). Now you can place the last locking nut on, **NOTE: Do not tighten at this time.**



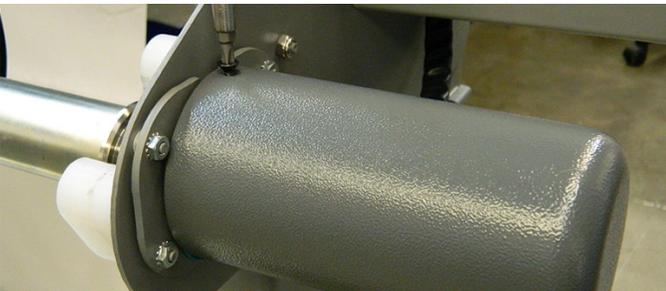
Step 18: Connect both the power and the communication clips as shown. You can turn on the FJE2 at this point. **NOTE: Step 19 shows how to tighten the nuts.**



Step 19: With the socket wrench, you need to fully tighten 1 of the 4 nuts first. **NOTE: Turn on the power.** Place the socket wrench on 1 of the 3 nuts showing, press set/origin on the keypad. The shaft will begin to turn, this is when you tighten the first nut. **NOTE: You are doing it this way so the shaft can CENTER itself. You can now tighten the remaining 3 nuts.**



Step 20: Place the cover back on. You may need to help feed the wires (in step 19) into the cover itself.



Step 21: Once the cover is on and the wires are inside, go ahead and screw the 2 black screws to secure the cover. You are now ready to resume printing.

**...FINISHED.**