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Color StyleWriter Pro: How To Test the Sensor PCB (12/95)

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TOPIC -----

I am trying to repair a Color StyleWriter Pro where the paper pickup rollers make one rotation and then the paper stops before getting to the platen. The printer reports a paper out/paper jam condition. The symptoms indicate a problem with the sensor PCB, but I would like to confirm the failure before replacing it. Is there a test for the sensor PCB that I can perform?

DISCUSSION -----

The sensor PCB consists of two photosensors that can easily be tested in circuit using a multimeter. The standard probes on most multimeters are usually too big to fit into the sensor PCB connector, however attaching t-pins to the probes with electrical tape may work.

In order to test the sensor PCB, first remove it from its mounting point using the instructions found in Service Source so that the photosensors are accessible. Be careful not to short the sensor PCB on the printers metal chassis. Power on the printer and wait for it to reach an error condition state. Carefully connect the multimeter to the pins described below and monitor the DC voltage while inserting and removing a piece of paper from between the photosensors. The tests described below use connector JAFS1 on the main logic board.

Connect the black lead to pin 1 (GND) and the red lead to pin 2 on connector JAFS1. The voltage should read approximately 0 volts DC without anything inserted between the photosensor. The voltage should jump to 5 volts DC when something is inserted between the photosensor labeled PS2 ASF on the sensor PCB. The voltage should drop back to zero when the piece of paper is removed. This test confirms that the sheet feeder sensor is working properly.

Connect the black lead to pin 1 (GND) and the red lead to pin 3 on connector JAFS1. The voltage should read approximately 0 volts DC without anything inserted between the photosensor. The voltage should jump to 5 volts DC when something is inserted between the photosensor labeled PS2 ASF on the sensor PCB. The voltage should drop back to zero when the piece of paper is removed. This tests confirms that the paper empty sensor is working.

If both sensors operate normally then the sensor PCB is functional. Consult Service Source for additional help if the original problem continues.

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