



Tech Info Library

ImageWriter II Self Test Problems

This article last reviewed: 2 November 1988

YOU WILL NEED:

1. Level I Tech Procedures for ImageWriter II
2. ImageWriter II User's Manual
3. ImageWriter II color ribbon
4. Digital multimeter

BEFORE YOU START:

1. Install the color ribbon on the IW II.
2. If replacement or adjustment procedures are needed, refer to the Tech Procedures.
3. For location of IW II controls, refer to the User's Manual.
4. The printer must be able to perform a normal "power on initialization" before it can perform a Self Test. If you are unsure that your printer can do this, search on HTS and IMAGEWRITER II and GENERAL. Perform the HTS ImageWriter II General troubleshooting procedure. If the printer fails Self Test in that procedure, return here for instructions.

INSTRUCTIONS:

To initiate Self Test: turn the printer off, and press Form Feed while you turn it back on. The printer should print:

SELF TEST

ROMREV

DIP switch settings

RAM XX AT (On or OFF)

and then begin printing CHARACTER SETS something like the one below in alternating colors.

```
!#$%&'()*+,-./0123456789:;<>?@ABCDEFGHIJKLMN OPQRSTUVWXYZ[\]^_`abcdefghijklmnopqr  
stuvwxyz{|}
```

- * If the Self Test occurs as described above and the print quality is good, the printer is OK.
- * If the print quality is poor, search on HTS and IMAGEWRITER II and PRINT QUALITY.
- * If the printout shows a color select problem, search on HTS and IMAGEWRITER II and COLOR SELECT.
- * If the printout shows a problem other than color select or print quality, perform the steps below:
 1. Turn the printer off and check the Form Feed switch on the operation panel as follows. If it proves defective, replace the operation panel.
 - 1.1 Set the digital multimeter to measure 200 ohms resistance.
 - 1.2 Place the probes on pin 12 and pin 13 of the operation panel connector. The reading should show no connection (1).
 - 1.3 Depress the Form Feed switch. The reading should show continuity (0.00).
 2. Turn the printer off and check the flexible cable and the Head PCB as follows. If check shows a problem, replace the flexible cable and Head PCB.
 - 2.1 Detach the flexible cable from the drive board.
 - 2.2 Locate the home position switch (under the left hand side of the ribbon carrier on the Head PCB).
 - 2.3 Set the digital multimeter to measure 200 ohms resistance.
 - 2.4 Place the probes on pin 10 and pin 12 on the flexible cable.
 - 2.5 Push the home position switch on the Head PCB. The reading should be 0.00 when the switch is depressed. When the switch is released, the reading should be 1.
- 3. Replace the Drive PCB
- 4. Manually move the carrier back and forth. If it will not move, visually inspect the following. If you find a defective module/part, replace it.
 - 4.1 Check the ribbon cartridge to be sure the ribbon is wound when the knob is turned in the direction of the arrow.
 - 4.2 Check the carrier shaft and carrier belt for damage and foreign

materials.

4.3 Check the ribbon wire for dislocation and damage.

4.4 Perform carrier shaft maintenance (see Section 1, Basics in the ImageWriter II tab of the Tech Procedures).

5. Replace the Main CPU PCB.

6. Replace the Carrier motor.
Copyright 1988 Apple Computer, Inc.

Keywords: hts

=====

This information is from the Apple Technical Information Library.

19960215 11:05:19.00

Tech Info Library Article Number: 1408