



Tech Info Library

ImageWriter Hardware Communication Problems

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Security: Everyone

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DESCRIPTION:

This table is composed of typical Imagewriter communication problems and fixes. If your problem matches a symptom, perform the appropriate fix.

YOU WILL NEED:

1. Apple IIe computer
2. Super Serial Card and printer cable
3. Level I Tech Procedures
4. Imagewriter User's Manual
5. Pencil and paper

BEFORE YOU START:

1. If replacement or adjustment procedures are needed, refer to the Tech Procedures.
2. If a replacement doesn't fix the problem, reinstall the original module/part before proceeding with the procedure.
3. If location for IW controls are needed, refer to the User's Manual.

INSTRUCTIONS: In order to isolate a hardware communications problem, you first need to eliminate the possibility of a software or DIP switch configuration problem. To do this perform the following:

1. Turn off the printer, write down the customer's Super Serial Card and printer DIP switch configurations. Set the DIP switches as shown below:
(Note: Op = open, Cl = closed, up = On, dn = Off)

IW-SW2				IW-SW1							
Cl	Cl	Op	Op	Op	Op	Op	Op	Cl	Cl	Op	Cl
1	2	3	4	1	2	3	4	5	6	7	8

SSC-SW1							SSC-SW2							
Off	Off	Off	On	Off	On	On	On	Off	Off	On	On	Off	Off	MODEM/TERM jumper
1	2	3	4	5	6	7	1	2	3	4	5	6	7	block to TERM

2. Remove all peripheral cards from the IIe. Install the Super Serial card in slot 1. Connect the IW to the S/S card via printer cable
Turn on the IW (make sure cover is installed). Turn on the IIe and press the RESET key while you press the CONTROL key (DO NOT BOOT A DISK). The cursor should blink.

Type the program exactly as shown below.

```
10 PR#1
20 FOR A = 1 TO 100
30 FOR I = 32 TO 126
30 PRINT CHR$(I);:NEXT I:PRINT
40 NEXT A
50 PR#0
60 END
```

3. Type RUN and press the <RETURN> key. The printer should print out about 100 character sets like the one shown below. If it does, the IW communicates with the computer OK.

```
!#$%&'()*+,-./0123456789;<>?@ABCDEFGHIJKLMN0PQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}
```

If the printout is not OK, look below for problems.

- * If you get a SYNTAX ERROR on the computer, you may have mis-typed a line. To correct the syntax error perform the following:
 - (1) Type LIST and press <RETURN>. The program should appear on the screen.
 - (2) Examine the program for accuracy. Spaces, colons, etc. are important.
 - (3) To correct a line, simply retype the line and press <RETURN>. LIST again to make sure the correction is OK.
- * If nothing happens on the printer or the computer, press the RESET key while you press the CONTROL key. Then LIST your program as described above in the SYNTAX ERROR explanation to look for typing errors.
- * If no syntax errors occurred and the cursor is blinking again, then the program has probably run OK so check for the problems below:

PROB: The printer does not print a set of characters.

FIX: Recheck for the problem after each of the following steps. If no problem is found, go to step 4.

- (1) Check that the computer is properly powered on and initialized.
- (2) Check that the SEL light is on. If it's not, press SEL and try to print from the computer again using the program above. If it prints while the SEL light is off, replace the switch panel.
- (3) Make sure that the interface cable between the printer and the

computer is connected and secured at both ends.

(4) Replace main logic PCB.

PROB: The printer prints a set of characters but print quality is poor.

FIX: Do a word search for "Imagewriter and HTS and Self Test Problems" to obtain the print quality FIX.

4. Reset the DIP switches to the customer's original configuration. Then refer to the User's Manual and the Appendix in the Imagewriter section of the Tech Procedures to see if the customer's DIP switch configuration caused the problem.

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