

# Ithaca Series 50 Plus Printer Configuration and Help

Below outlines the configuration settings for the Ithaca Series 50 Printers. The Series 50 printer that we are setting up requires a Co-Ax connection for utilizing the Cash Drawer.

## THESE ARE THE ABCS CONFIGURATION SETTINGS FOR THE ITHACA SERIES 50 PRINTER

Main Board Settings -1,5,7 is switched to- ON  
SWI- 4,7,8 are switched to - ON  
SW2- 2,3,6,7, are switched to- ON

### **Ithaca - Technical Support**

**Phone:** 1-877-7ithaca or (607) 257-8901

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### **Series 50 Printer**

#### **Serial Board Switch Settings**

##### SERIAL COMMUNICATION BOARD (RS232C)

This optional serial interface consists of a piggy-back circuit board. After the access cover is removed, this circuit board is closest to the access opening. This board contains two DIP switch packs with a total of 16 function switches (8 switches per pack). The following shows the factory switch settings.

SW1

1-ON 2-ON 3-ON 4-ON 5-ON 6-ON 7-ON 8-ON

SW2

1-OFF 2-ON 3-ON 4-OFF 5-ON 6-ON 7-ON 8-OFF

SW1:

##### SWITCHES 1 & 2 (SW1)

These switches work together to set the parity of the printer to match the parity of the computer system. The factory switch setting is for NO parity.

SWITCH	SWITCH 1	SWITCH 2
NO PARITY	ON/OFF	ON
EVEN PARITY	OFF	OFF
ODD PARITY	ON	OFF

Note: 7-bit no parity is not a true 7-bit mode, it is 7-bit but does not care about parity. The parity bit must be present or the host must be configured for 7 bits with 2 stop bits.

##### SWITCH 3 (SW1)

This switch is set ON at the factory to select 8-bit data. Set this switch OFF for 7-bit data.

##### SWITCH 4 (SW1)

This switch is set ON at the factory for Printer Ready/Busy protocol. Set this switch OFF in the computer uses XON/XOFF protocol.

##### SWITCHES 5 & 6 (SW1)

These switches work together to run two serial cable tests. One test checks for proper switch settings, the other test checks the data cable to see if it is communicating properly. The factory setting is the non-test mode, called the print mode.

SELECTION	SWITCH 5	SWITCH 6
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PRINT MODE	ON/OFF	ON
CIRCUIT MODE	ON	OFF
MONITOR TEST	OFF	OFF

### SWITCHES 7 & 8 (SW1)

If the READY/BUSY protocol is selected (switch 4), then the line on which the printer sends the busy signal and the signal polarity (low or high) may be selected by setting switches 7 & 8. The switches are set at the factory for a negative (low) busy signal on pin 20 (DTR).

SELECTION	SWITCH 7	SWITCH 8
DTR PIN #20 (-9v)	ON	ON
RTS PIN #4 (-9v)	ON	OFF
SSD PIN #11 (-9v)	OFF	ON
SSD PIN #11 (+9v)	OFF	OFF

SW2:

### SWITCHES 1, 2, and 3 (SW2)

These switches work together to select the transmission speed (baud rate). The switches are factory set for 9600 baud.

SELECTION	SWITCH 1	SWITCH 2	SWITCH 3
19200	ON	ON	ON
9600	OFF	ON	ON
4800	ON	OFF	ON
2400	OFF	OFF	ON
1200	ON	ON	OFF
600	OFF	ON	OFF
300	ON	OFF	OFF
110	OFF	OFF	OFF

### SWITCH 4 (SW2)

If the printer has pin #6, DSR, connected to the computer, then set this switch to the ON position. If the computer does not use the DSR signal, then leave this switch in the OFF position.

### SWITCH 5 (SW2)

This switch is factory set to ON so that the printer waits until the print buffer has room for only 32 more bytes before sending a busy signal to the computer. If some data is lost during transmission, set this switch OFF. Then the printer sends a busy signal when room for 256 more characters remain in the buffer.

### SWITCH 6 (SW2)

This switch is set ON at the factory for a 200 ms busy time. This is the period of time it takes the printer to empty the print buffer and get ready to receive data. If the computer requires more time to process a response set this switch to the OFF position.

### SWITCHES 7 AND 8 (SW2)

These switches work together to control the Multidrop Communications Mode. On printers not equipped with the Multidrop Option, leave the switches in the factory setting, 7 on and 8 off.

SELECTION	SWITCH 7	SWITCH 8
Multidrop Disabled (Printer always selected)	ON	ON
Multidrop Address "A"	OFF	ON
Multidrop Address "B"	ON	OFF
Multidrop Address "C"	OFF	OFF

Note: The Multidrop option must be present before you can utilize these switch settings. Contact Technical Support if you are unsure if this option is present.

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## Series 50 Printer Main Board Function Switch Settings

### Okidata Emulation

#### CHECK AND SET SWITCHES

The factory switch settings apply to most customer applications and normally do not need to be reset; however, the switch settings should be checked and set at this time, if necessary.

#### CONTROL BOARD

All Series 50 printers contain one large circuit board called the control board. Located on that board is one DIP switch pack containing 8 switches (called DIP SW on the circuit board).

1-ON 2-OFF 3-OFF 4-OFF 5-ON 6-OFF 7-ON 8-OFF

#### SWITCHES 1,2 & 3

When this unit is shipped from the factory, the switches are set so that the unit prints US ASCII characters and the numeric 0 without a slash through it. The following shows the available languages and switch settings.

SELECTION	SWITCH 1	SWITCH 2	SWITCH 3
ASCII-SLASH	OFF	OFF	OFF
ASCII-NO SLASH	ON	OFF	OFF
BRITISH	OFF	ON	OFF
GERMAN	ON	ON	OFF
FRENCH	OFF	OFF	ON
FR-CANADIAN	OFF	ON	ON
SPANISH	ON	ON	ON

#### SWITCH 4

Switch 4 is used to select the control code needed to energize the cash drawer. When switch 4 is OFF the cash drawer is opened by the "BEL" (HEX 07) command. When switch 4 is ON the cash drawer is opened by the "ESC +" (HEX 1B 2B) command.

#### SWITCH 5

Switch 5 is used to select the codes used for printer select/deselect sequences.

#### SWITCH 6

Switch 6 is the automatic line feed selection and is set OFF at the factory for no line feed. If some data is overprinted, it is possible that the computer did not send a line feed command at the end of the print line. Set this switch to ON and the printer will insert a line feed at the end of each line. On computers which send a line feed command setting switch 6 ON causes double line spacing.

#### SWITCH 7

Switch 7 selects the number of data bits. ON selects 8 data bits, OFF selects 7 data bits.

#### SWITCH 8

Switch 8 is used only by the factory and must remain in the OFF position.

