



# APPENDIX A

## *Jumpers and Connectors*

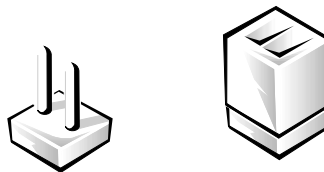
This section provides specific information about the jumpers on the system board. It also provides some basic information on jumpers and switches and describes the connectors and sockets on the various boards in the system.

### ***Jumpers—A General Explanation***

Jumpers and switches provide a convenient and reversible way of reconfiguring the circuitry on a printed circuit board. When installing replacement parts or reconfiguring the system, you may need to change jumper settings on the system board. You may also need to change jumper and/or switch settings on expansion cards or drives.

#### ***Jumpers***

Jumpers are small blocks on a circuit board with two or more pins emerging from them. Plastic plugs containing a wire fit down over the pins. The wire connects the pins and creates a circuit. To change a jumper setting, pull the plug off its pin(s) and carefully fit it down onto the pin(s) indicated.



**Figure A-1. Jumper**

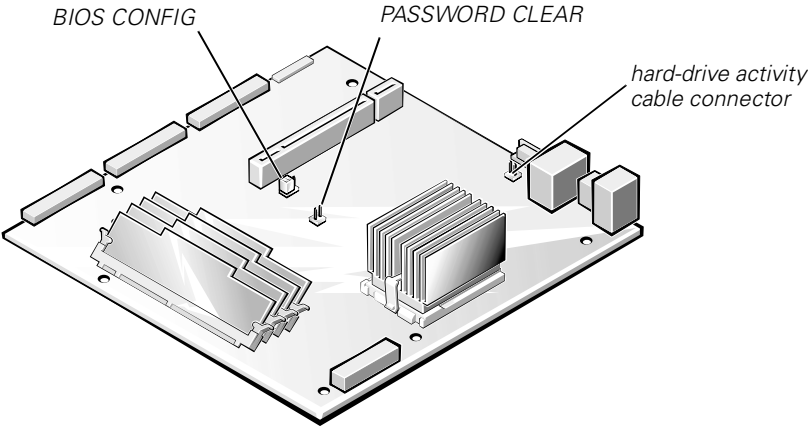
**NOTICE:** Make sure the system is powered off before you change a jumper setting. Otherwise, damage to the system or unpredictable results may occur.

A jumper is referred to as open or unjumped when the plug is pushed down over only one pin or if there is no plug at all. When the plug is pushed down over two pins, the jumper is referred to as jumped. The jumper setting is often shown in text as two numbers, such as 1-2. The number 1 is printed on the circuit board so that you can identify each pin number based on the location of pin 1.

Figure A-2 shows the location and default settings of the jumper blocks on the system board. See Table A-1 for the designations, default settings, and functions of the system's jumpers.







## System Board Jumpers

Figure A-2 shows the location of the configuration jumpers on the system board. Table A-1 lists the function of these jumpers.



**Figure A-2. System Board Jumpers**

**Table A-1. System-Board Jumper Settings**

Jumper	Setting	Description
BIOS CONFIG	 (default)	Normal setting (on pins 1 and 2)
	 1 3	Recovery position (CMOS clear) (on pins 2 and 3)
PASSWORD CLEAR	 (default)	The password feature is enabled.
		The password clear feature has cleared the password.
<div>jumpered  unjumpered </div>		

NOTE: For the full name of an abbreviation or acronym used in this table, see "Abbreviations and Acronyms."

# System Board Connectors

Table A-2 lists the connectors and sockets located on the system board.

**Table A-2. System Board Connectors and Sockets**

Connector or Socket	Description
BATTERY	Battery socket
DIMM <i>n</i>	DIMM sockets
FAN <i>n</i>	Power connectors for the fans
FLOPPY	Diskette drive interface connector
FRONT PANEL	Front panel connector
HD FLOPPY	High-density diskette drive connector
IDE SEC	Secondary IDE connector
IDE PRI	Primary IDE connector
J6	Ethernet connector
J7	USB connectors
J20, J13	Riser board sockets
KYB/MSE	Keyboard and Mouse connectors (stacked connector)
POWER CONN	Power connector
SER A	Serial port connector; sometimes referred to as COM1
U15	Microprocessor zero-insertion-force socket

## Disabling a Forgotten Password

The system's software security features include a system password and a setup password, which are discussed in detail in "Using the System Setup Program" in the *User's Guide*. A password jumper on the system board enables these password features or disables them and clears any password(s) currently in use.

To disable a forgotten system password or setup password, perform the following steps.

**NOTICE: See "Protecting Against Electrostatic Discharge" in the safety instructions in your *System Information* document.**

1. Shut down and power off your system. Then disconnect the system and peripherals from their electrical outlets.
2. Remove the system cover.

3. Locate the password jumper (labeled PASSWORD CLEAR) on the system board (see Figure A-2).
4. Place a jumper plug on the PASSWORD CLEAR jumper.
5. Replace the system cover, and then reconnect the system to an electrical outlet and power on.

The system password is cleared. Do not set a new system password at this time.



*NOTE: If you assign a new supervisor and/or user password with the jumper plug still in place, the system disables the new password(s) the next time it boots.*

6. Repeat steps 1, 2, and 3.
7. Remove the jumper plug from the PASSWORD CLEAR jumper.
8. Replace the system cover, and then reconnect the system and peripherals to their electrical outlets and power them on.
9. Assign a new supervisor and/or user password.

To assign a new supervisor password using the System Setup program, see "Assigning a Supervisor Password" in the *User's Guide*. To assign a new user password using the System Setup program, see "Assigning a User Password" in the *User's Guide*.