

Setting the Configuration Switches

adapter, is
g from 0 to 7.
ive its own
may be used,
ation for

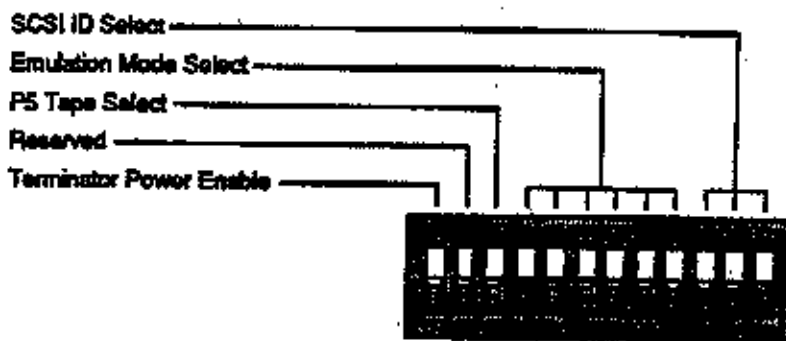
system are
s are required
wanted
an external

should have a
510 to a
ed, you will
ing SCSI
be device
internal SCSI
terminators
the spacing

The SCSI ID and configuration options are set by means of the twelve configuration switches on the rear panel. They are numbered from 1 to 12 starting at the left. Figure 2-2 shows the individual switch functions and their recommended settings for various operating system. As indicated, a switch is ON when it is in the up position, and OFF in the down position.

The switches are only scanned by the CTS-8510 during its power-up cycle. It is therefore necessary to cycle the power to the unit in order for new switch settings to become effective.

Figure 2-2 Configuration Switch Summary



Detailed Switch Function Definitions

1 Terminator Power

This switch, when turned ON, connects 5VDC terminator power to the rear-panel SCSI connectors. The terminator power is supplied through a diode and a fuse. The green terminator power LED on the rear panel indicates that terminator power is present at the SCSI connectors (either from the CTS-8510 or an external source). Terminator power must be present (i.e., the LED must be lighted) for an external terminator plug such as the one supplied with the CTS-8510 to function.

We recommend that this switch remain OFF if the host supplies terminator power. Start with switch 1 OFF and connect the CTS-8510 to your host. Turn on the host computer and the drive. If the green LED is lighted, leave switch 1 OFF, otherwise, turn it ON.

If the green terminator power LED does not light even with AC power applied and switch 1 turned ON, the internal terminator power fuse may be blown. Contact TTI Technical Support for assistance.

2 Reserved

Switch 2 is reserved for future use. This switch should be left in the OFF position.

3 P5 Tape Select

When turned ON, this switch causes the CTS-8510 to recognize P5 (European) tape lengths. When OFF, the unit recognizes P6 (US) tape lengths. Refer to "Cartridge Types and Sizes" in Chapter 3 for more information on P5 and P6 tapes.

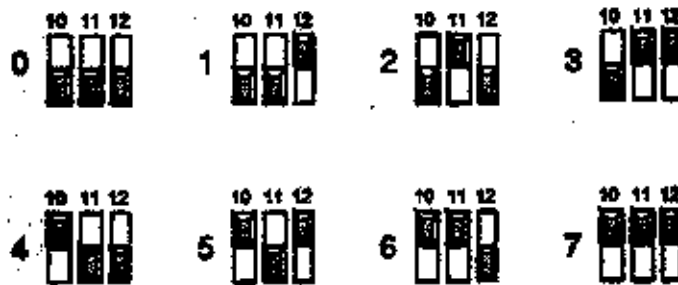
4-9 Emulation Mode

Switches 4 through 9 determine the emulation mode of the CTS-8510, and select various optional features which pertain to that emulation mode. The function of these switches is explained in the next few pages of this chapter.

10-12 SCSI ID

Switches 10, 11, and 12 select the CTS-8510's SCSI ID. Refer to Figure 2-3 for these settings:

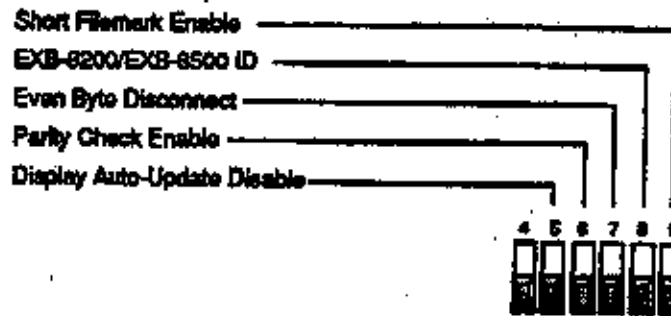
Figure 2-3 SCSI ID Selection



EXABYTE EXB-8200/8500 Mode

EXABYTE mode is selected whenever switch 4 is OFF. EXB-8200 mode is recommended for host applications which include support for the EXB-8200 8mm drive, such as the Sun-3, Sun-4, and SPARCstation. Additionally, it is the recommended mode for *non-TTY* SCSI host adapters for DEC UNIBUS and Q-BUS. When EXABYTE mode is enabled, switches 5 through 9 select various optional features as shown in Figure 2-4.

Figure 2-4 EXABYTE Mode and Options



In EXABYTE mode, switches 5 through 9 enable and disable optional features as follows:

5 Display Auto-Update Disable

When EXB-8200 mode is enabled and switch 5 is OFF, the tape remaining and %rewrites/ECC displays will update automatically at approximately two second intervals. With switch 5 in the ON position, automatic display updates are disabled. In this case, the host must issue Request Sense commands to the unit in order to cause the display to update. This option is provided for compatibility with some CTS-8000 applications. The recommended setting is for normal applications is OFF.

6 Parity Check Enable

When switch 6 is ON, the CTS-8510 checks the SCSI data bus parity bit. With switch 6 OFF, the parity bit is ignored. The CTS-8510 always generates parity regardless of the switch setting. The recommended setting for normal applications is ON. This switch affects the power-up state of the unit. The host may override this option via a Mode Select command.

7 Even Byte Disconnect

With switch 7 ON, the CTS-8510 will only disconnect on even byte boundaries. This is required for some host computers which cannot handle disconnects on odd byte boundaries. This switch affects the power-up state of the unit. The host may override this option via a Mode Select command.

8 EXB-8200/EXB-8500 ID

The CTS-8510 can identify itself as either an EXABYTE EXB-8200 or EXB-8500 drive. This is for compatibility with hosts which support the EXB-8200 but do not yet support the EXB-8500. With switch 8 in the OFF position, the drive identifies itself as an EXB-8200 via the SCSI Inquiry command. With switch 8 in the ON position, the drive identifies itself as an EXB-8500.

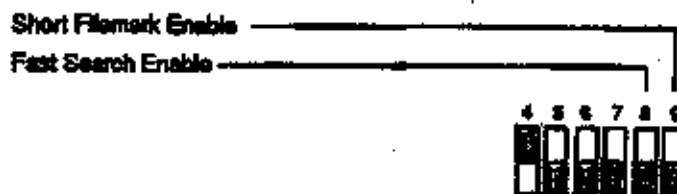
9 Short Filemark Enable

Setting switch 9 to the ON position causes the CTS-8510 to write "short" filemarks to the tape by default. Short filemarks save a considerable amount of space on tape, but cannot be erased and overwritten as can normal filemarks. The CTS-8510 never writes more than one consecutive short filemark—the 2nd, 3rd etc. consecutive filemarks are always written as normal filemarks for operating system compatibility.

DEC TK50Z Mode

DEC TK50Z mode is selected whenever switch 4 is on and switches 5, 6, and 7 are OFF. TK50Z mode is recommended when the CTS-8510 is used with the VAXstation 3100, MicroVAX 3100, DECstation 3100, DECstation 5000, and other DEC VMS and ULTRIX workstations with a built-in SCSI port. When TK50Z mode is enabled, switches 8 and 9 select optional features as shown in Figure 2-5.

Figure 2-5 TK50Z Mode and Options



In TK50Z mode, switches 8 and 9 enable and disable optional features as follows:

8 Fast Search Enable

In TK50Z mode, with switch 8 turned ON, the CTS-8510 will convert space block commands with a block count greater than 255 blocks into space filemark commands. This provides a considerable performance improvement on VMS systems, which use a series of space block commands to skip filemarks. It may, however, cause problems with some non-DEC supplied applications software. In this case, switch 8 should be turned OFF to suppress this feature. This switch should also be turned OFF when the CTS-8510 is used with ULTRIX.

9 Short Filemark Enable

Refer to the EXB-8200 mode section of this manual for an explanation of this feature.

IBM 2.3 GB 8mm Tape Drive Mode

IBM 8mm mode is selected whenever switches 4 and 6 are ON and switches 5, 7, and 8 are OFF. IBM mode provides compatibility with the IBM RISC System/6000 POWERstation and POWERserver computers. When IBM mode is enabled, switch 8 selects the Short Filemark feature as shown in Figure 2-6.

Figure 2-6 IBM Mode and Option Switches



With IBM mode enabled, switch 9 enables and disables the Short Filemark mode. Refer to the EXB-8200 mode section of this manual for an explanation of this feature.

TTI CTS-8510 Mode

TTI mode is enabled by setting switches 4 and 5 on and switches 6, 7, 8, and 9 OFF. TTI mode is the recommended mode for use with TTI's DEC UNIBUS and Q-BUS host adapters, TTI's Nightshift™ software for Macintosh networks, and TTI supplied DIBI and TapeWare® backup software solutions for PC-based networks. Figure 2-7 shows the correct switch settings to enable TTI mode.

Figure 2-7 TTI Mode Switches



There are no optional features in TTI mode.