PERCOM

PERCOM DATA COMPANY, INC.

"NOTICE"

PRODUCT: RFD ADDON DRIVES

SUBJECT: DRIVE ADDRESSING

The cable that is accompanying this Atari unit has not been programmed for drive selection. Therefore, it will be necessary to go inside the drive and program for drive selection.

See attached Memo for further instructions.

11220 Pagemill Road, Dallas, Texas 75243 · (214) 340-7081 · TELSERV DAL 732561

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"NOTICE"

PRODUCT: RFD ADD-ON DRIVES

SUBJECT: DRIVE ADDRESSING

The cable accompanying this disk drive has not been programmed for drive selection. Therefore, it will be necessary to go inside the drive and program its proper drive address.

Atari DOS uses the drive paramaters D1: through D4: for its drive selection. The following technical memo refers to drives 0 through 3, which is the manner in which most drive manufacturers refer to their drives. Translate the drive numbers as follows:

Drive 0 to D1:
Drive 1 to D2:
Drive 2 to D3:
Drive 3 to D4:

See the attached Memo for further instructions.

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TM RFD 005
007-0051-001

30 June 1982

TECHNICAL MEMO

PRODUCT: RFD DRIVES
SUBJECT: DRIVE ADDRESSING

In any computer system, the computer must have some way of knowing which peripheral device it needs to access. Each device must have an address unique within that system. If the computer assigns an address to a device, that device must also have some way of knowing that it is the one being accessed.

On disk drives sold by Percom, this addressing of the drive can be handled by a programmable Jumper DIP shunt. This programmable shunt is used, not only for address programming, but identifies the method of head loading as well. Because all drives share the same motor line, whenever one drive is selected, the motors on all drives spin.

An alternative to programming the Jumper DIP shunt for drive addressing is to have the interconnecting cable manufactured with certain pins pulled so that drive addressing is handled through the cable. However, a customer may wish to add a Percom drive to his already existing system which includes a non-Percom inter-connecting cable which does not handle drive addressing. In this case it may be necessary to program the address shunt on the disk drive. This programmable shunt's physical location on the drive is shown in the attached diagrams.

On the following pages are attached drawings which show the location of the programmable shunt on the various Percom drives. The tables identify the proper pins to be connected to give the drive its unique address. For clarity, diagrams showing how a Jumper DIP is configured to select the desired drive.

** Note **

When programming an address for a drive to be used with a non-Percom cable, only two connections need be made, one for the actual address and the other connection to identify the method of head loading.

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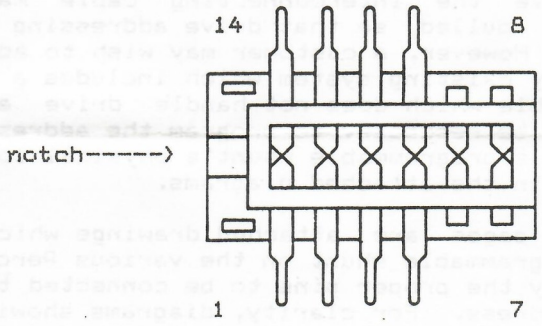
*** CAUTION ***

Some types of integrated circuits are extremely sensitive to destructive charge buildup on the leads. When handling components or circuit cards, the following precautions should be observed:

1. Wear clothes that do not create a static charge
2. Work in an area that is not carpeted
3. Gather all materials, equipment and tools required for the job so you will not have to leave the work area before the job is complete.

Below is an example drawing of a programmable Jumper DIP shunt, with the pin 1 identification notch noted. Also shown are pin numbers 1, 7, 8, 14. Note that the pin number count, looking down on the socket, goes in a counter-clockwise direction.



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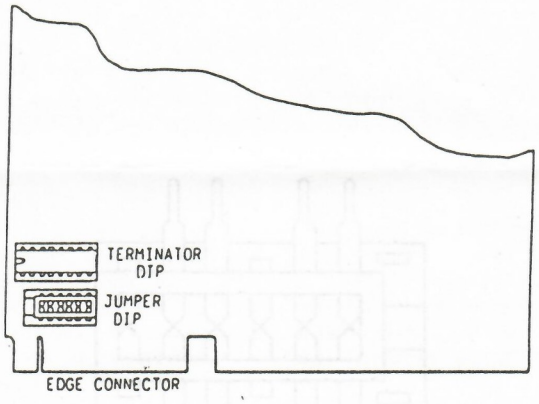
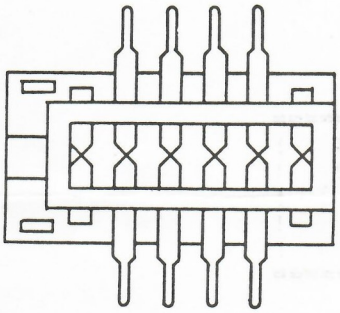
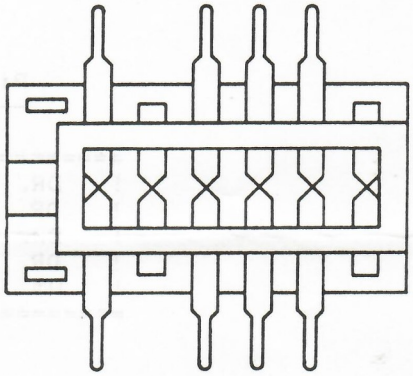


Board Location

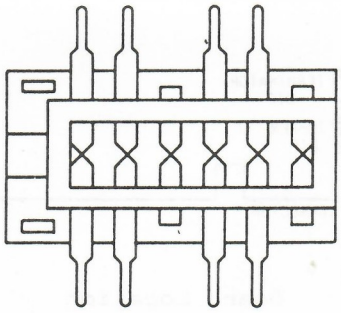


DRIVE 0



DRIVE 1

(cont'd)



DRIVE 2

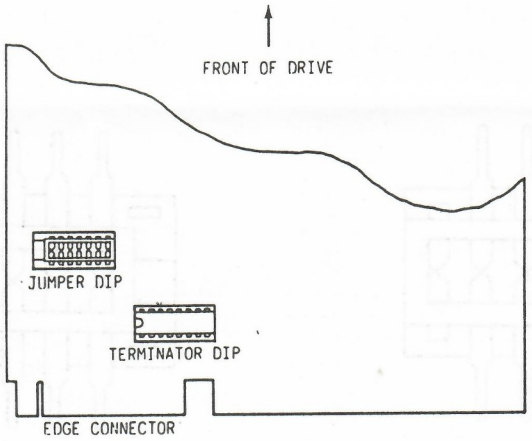
Pin Connections

DR. 0	pins	2-13
DR. 1		3-12
DR. 2		4-11
DR. 3		N/A
HM		7-8

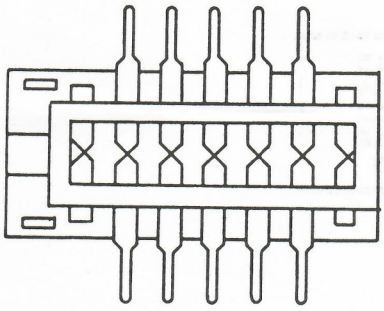
** Note **

Although RFD 100 disk drives are capable of operating as Drive 4, selection of this position must be handled through the cable. For this reason, it is important to use a Percom interconnecting cable.

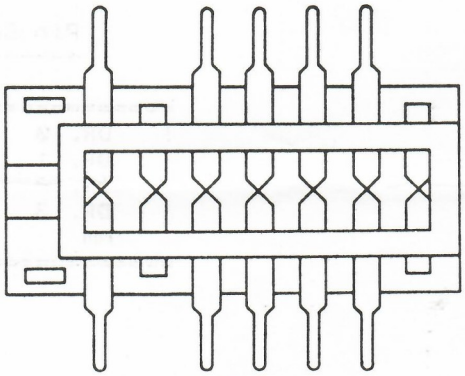
4x or 34x Circuit Board Type B



Board Layout

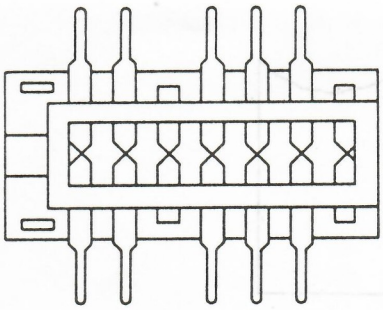


DRIVE 0

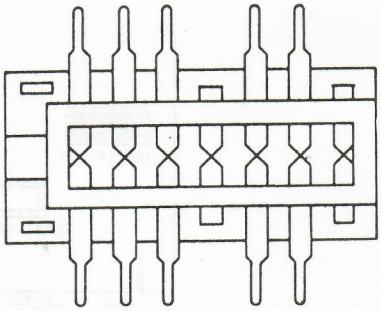


DRIVE 1

4x or 34x Board B (cont'd)



DRIVE 2



DRIVE 3

Pin Connections

DR. 0	pins	2-15
DR. 1		3-14
DR. 2		4-13
DR. 3		5-12
HM		8-9

- END -