A. THEORY OF OPERATION

The floppy disk drive is a standard eight inch drive capable of supporting both single and double density recording formats. All of the disk drive control signals come from the floppy disk controller card. The drive contains two motors; one rotates the media at a constant speed while the other positions the read/write head over one of the 77 tracks. Electronics on the disk drive convert digital signals into read/write head signals and vice-versa.

NOTE: Models for overseas shipment may be configured with an AC Motor for the line voltage available in that country and may be fitted with a different drive pulley for 50 Hz line frequency.

B. JUMPER CONFIGURATION

All SA800 Drives:

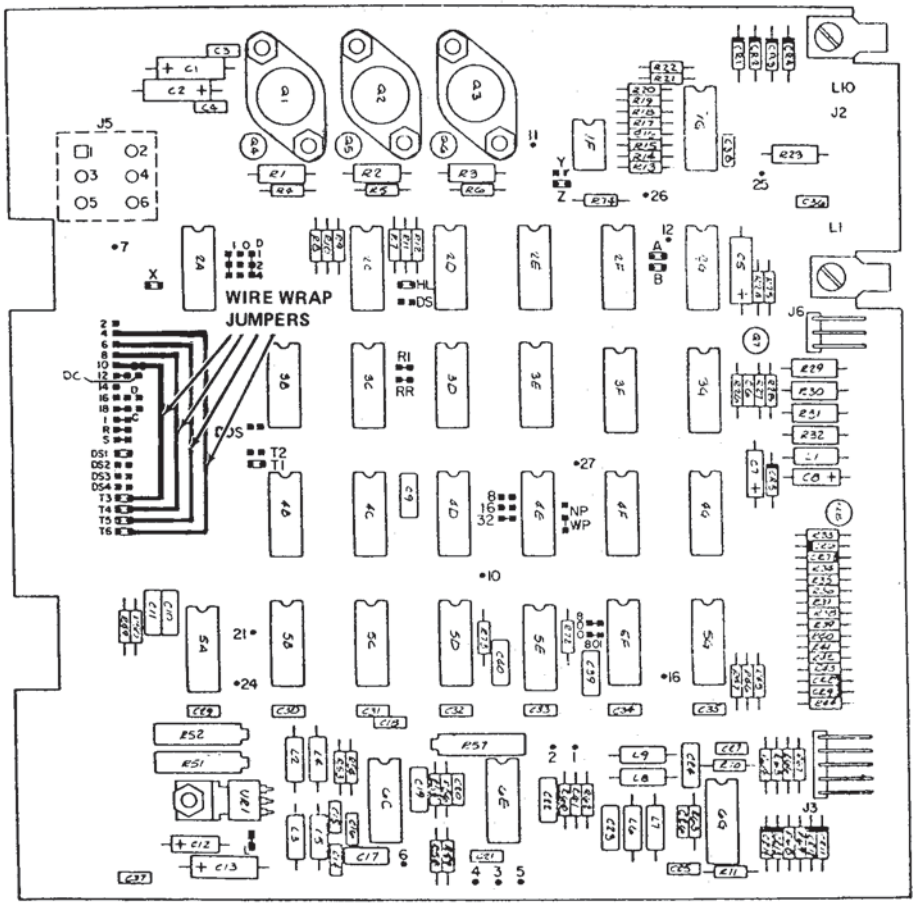
Refer to the **Shugart Maintenance Manual** and also see Figure 1 below.

1. Jumper "L" installed and oriented vertical as outlined on the silkscreen.
2. Jumpers installed on the following only!
   "A", "B", "C", "Z", "DS", "DC", "T1", "T2"

Disk Termination

When the Disk Expansion Unit is not connected to the Model II Computer, a special terminator must be connected to the Disk Expansion connector on the back of the Display Console. The terminator is a PC Board which provides jumpering to the termination resistors on the Computer's FDC PC Board. When using the computer in conjunction with a disk expansion unit, the terminator is removed and termination is provided on Drive No. 1 in the expansion unit.

The wire wrapped jumpers installed on pins 4, 6, 8, and 10, provide external termination along with the disk terminator. These jumpers must be installed as shown in the following illustration for proper termination when a disk expansion unit is not attached to the system.



Jumper Plug Installed as Shipped

• Test Point

Figure 1. SA 800/801 PCB Test Points and Component Locations.