SERVICE LETTER

DATE: February 28, 1975

PRODUCT: D3000 DISK DRIVES

SUBJECT: SPEED OUT OF TOLERANCE EMERGENCY UNLOADS

PURPOSE: Should a particular D3000 disk drive be unloading because the speed is out of tolerance, Logic Connector J112 should be suspected. Molex J112 makes available, to the logic PCBA, the upper and lower spindle pulses as taken from the sector rings. The lower sector ring is ultimately monitored for speed regulation purposes. The wires from these transducers are small and their location, when J112 is plugged into the logic PCBA, could cause them to be broken, if the Servo PCBA were swung out to the service position haphazardly. Breakage of these small wires commonly occurs at the crimp and is not visible as the insulation still covers the wire.

SYMPTOMS:

- Unit comes up to speed, but powers down before heads load.

- Unit READY lamp comes on and drive instantaneously unloads.

- Unloads that can be forced by tampering with J112.

ACTION: Conditions involving J112, speed out of tolerance emergency unloads, are generally intermittent in nature. Consequently, a quick check of J112 may well solve an otherwise exasperating problem.