

SERVICE LETTER

DATE: March 28, 1975

NUMBER: DK3021A
(Service Letter DK3021A
replaces SL DK3021 in its
entirety. Remove and de-
stroy SL DK3021)

OPERATION OF DISK HAND HELD EXERCISERS WITH SPECIAL CONFIGURATIONS

PURPOSE:

Proper operation of Disk Hand Held Exercisers with special configured disk drives is essential. Special interface configurations that require different test techniques are outlined below. The following test configurations must be followed if these particular interfaces are to be tested with any reliability.

SECTION I. CONFIGURATION (SC907) DOCUMENTATION REFERENCE.

- Service Letter - DK3019B - Special Configurations
- FCN - DK3007 - I/O Socket Change

- 1.0 Effectivity - All units with special configuration SC907.
- 2.0 READ/WRITE BOARDS (102816-08) Remove special programming array plug located in J306.
- 3.0 Replace special programming array plug J306 with a high speed J-K flip-flop (74H106) that is designated as U24, P/N 700-0004.
- 4.0 Place unit selector switch on operator control panel to Unit Select 3.
- 5.0 Install Hand Held Exerciser in J101 on Logic Board and place in Diablo Mode.
- 6.0 Test and adjust D3000 as a standard unit.
- 7.0 After completion of test cycle, reverse Steps 2.0 and 3.0 to restore unit to normal system configuration.
- 8.0 After reinstallation of special programming plug, check TP20 (RPN) read pulse narrow on READ/WRITE PCBA for a pulse width of 100 NS.
- 9.0 If (RPN) is not 100 NS ADJ R138 on READ/WRITE PCBA to attain proper pulse width,

SECTION II. SPECIAL CONFIGURATION (SC914) DOCUMENTATION REFERENCE.

- Service Letter - DK3019B - Special Configurations
- Service Letter - DK3020 - GAI Test Adapter

- 1.0 Effectivity - All units with special configuration SC914.
- 2.0 On LOGIC/BOARD (103687-01) remove I/C U226 (700-7404) from I/C socket and noting the proper polarity, install test adapter (103661-01). (Reference SERVICE LETTER NO. DK3020)
- 3.0 Test and adjust D3000 as a standard unit.
- 4.0 After test cycle is completed, remove plug 103661-01 and reinstall U226 to restore to normal system configuration.

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5.0 Changes to SC914 interface are as follows:

- Head and Platter Select are inverted.
- Gated Seek Complete Line is added.
- Busy Seeking Signals are inverted.

SECTION III. SPECIAL CONFIGURATION (SC922) DOCUMENTATION REFERENCE.

- Service Letter - DK3019B - Special Configurations

1.0 Place piece of tape on Hand Held Tester pin B-3.

This will float the Illegal Address line from the disk drive.

2.0 Test as a normal OPT-46/47 Diablo.

****NOTE****

As cylinder address counter reaches the maximum track address (202) on 100TPI drives, the cylinder address counter will continue to cycle until it counts back to 0. REASON: Illegal address is floating and this normally resets the cylinder address to zero.