

PERIPHERAL EQUIPMENT DIVISION

TITLE POSITIONER LAMP LIFE IMPROVEMENT				PIB NO. DK3022
PRODUCT LINE	TAPE DISK FORMATTER	EQUIPMENT CHANGED Servo PCBA 102811-XX	MODEL SERIES AFFECTED D3000	EFFECTIVE DATE 4/28/75

CLASS OF BULLETIN:	ORDER PART KIT NO.	EFFECTIVITY
<input type="checkbox"/> IMPROVEMENT		
<input type="checkbox"/> RETROFIT ON FAILURE		
<input checked="" type="checkbox"/> RETROFIT RECOMMENDED	N/A	D3000's Prior to 3414XXXXX
<input type="checkbox"/> SERVICE INFORMATION ONLY		

PURPOSE: Incandescent lamps have certain operating characteristics that are unique. One of these characteristics is their tendency to darken with age. The lamp in the D3000 positioner assembly is no exception. Although the lamp is a 10 volt lamp operated at approximately one half its rated voltage, abnormal environmental conditions could cause premature darkening. To help protect against this darkening and to help ensure a more than adequate lamp life, this resistor change is recommended.

******CAUTION******

Because of the above described lamp characteristic, a certain amount of discretion must be used if this change is contemplated. The following checklist will aid in determining if the lamp has already darkened and if Resistor R128 should be changed. In conjunction with this document, Ref PIB's DK3015 and DK3030.

- SYMPTOMS:**
- The amplitude of X+0 and X+90 have been decreasing slowly and have required several adjustments of R69 and R79 over extended periods of time (weeks or months).
 - The voltage as measured between TP21 and the lower lead of R128 on Servo PCBA exceeds +5.2VDC. (Ref print 102811 for component locations).

PARTS REQUIRED:	<u>Qty</u>	<u>PERTEC P/N</u>	<u>Description</u>	<u>Circuit Designator</u>
	1	114-0561	56Ω 1%, 2W	R128

SPECIAL TOOLS:	<u>Qty</u>	<u>Description</u>
	1	453 Tektronik oscilloscope or equivalent
	2	X10 probes
	1	X1 probe
	1	soldering iron
	1	volt ohm meter (preferably digital)
	1	C.E. alignment cartridge

Additional Information Be Required — Contact

PERTEC

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ATTENTION: PRODUCT SUPPORT MANAGER

Distribution Code - 6318

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PIB NO
DK3022

TEST SET UP:

- (1) Servo Board. Monitor lamp voltage. Place volt ohm meter between test point 21 and lower lead of R128.
- (2) Voltage Range. +5.2 or higher R128 should be changed to 56 ohm resistor.
+5.2 or lower, the R128 change is not necessary as the voltage is low enough to ensure at least 15,000 hours of life.

REWORK INSTRUCTIONS:

- 1.0 If test procedure indicates that R128 should be changed locate R128. (PCBA lay out, 102811).
- 2.0 Unsolder the 47Ω and replace with the 56Ω then solder in place.
- 3.0 By changing R128 to 56 ohms, realignment of the servo board will be necessary as amplitudes of X+0 and X+90 have now been altered.
- 4.0 Alignment procedures outlined in D3000 operating and service manual, Section 6, pages 22 through 61 must be utilized and followed carefully.

****NOTE****

Head and circumferential alignment must be checked and performed if necessary.

- 5.0 In the event that X+90 amplitude is insufficient after the resistor change (6V-18V peak to peak) the positioner transducer lamp must be changed per PIB DK3015.

TEST PROCEDURE: After completion of servo alignment unit should be restored to its normal operating configuration and tested on-line so as to ensure proper operating and compatability.

DRAWING CHANGES: Drawing 102810, Sheet 1 of 3

<u>Zone</u>	<u>Component</u>	<u>From</u>	<u>To</u>
8-D	R128	47Ω, 2W	56Ω, 1%, 2W

Drawing 103810, Sheet 3 of 3

TABLE I

<u>Change From</u>	<u>Change To</u>
103-4705	114-0561

REVISIONAL LEVEL: Servo PCBA must be stamped with PIB DK3022.

TIME REQUIRED: One hour.