

TITLE				SPEED CONTROL HEAT SENSITIVITY		PIB NO. DK-3002							
PRODUCT LINE	TAPE DISK FORMATTER	<input type="checkbox"/>	EQUIPMENT CHANGED SERVO PCBA 102811-xx	MODEL SERIES AFFECTED D-3000	EFFECTIVE DATE 3-27-74								
CLASS OF BULLETIN:			ORDER PART KIT NO.	EFFECTIVITY									
<input checked="" type="checkbox"/> IMPROVEMENT <input type="checkbox"/> RETROFIT ON FAILURE <input type="checkbox"/> RETROFIT RECOMMENDED <input type="checkbox"/> INFORMATION ONLY <input type="checkbox"/> _____			N/A	ALL SERVO PCBA'S LOWER THAN V REVISION SHOULD BE CHECKED.									
<p>SUBJECT: Speed Control Heat Sensitivity</p> <p>PURPOSE: All D3000 disk drives have an emergency unload circuit that monitors key areas of the drive for proper operation. Should this circuit be unloading a particular drive intermittently, speed errors (LDSEG) could possibly be the problem. Improvements have been facilitated to the servo board that will reduce the heat sensitivity of the motor speed control circuit. By the incorporation of this change, a previously shipped D3000 can be updated to current shipping configurations.</p> <p>SYMPTOMS OF INTERMITTENT SPEED ERRORS:</p> <ul style="list-style-type: none"> • Unexplainable unloads (dropping ready) • Unloads on up-sequence just as drive goes into the "ready" condition. <p>PARTS REQUIRED:</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>Descriptive Specification</th> <th>Circuit Designator</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Zener, 3.3V, +5%, 500 mw IN5226B</td> <td>VR19</td> </tr> </tbody> </table> <p>****NOTE**** THIS PART SHOULD BE AVAILABLE THROUGH LOCAL ELECTRONIC PARTS DISTRIBUTORS.</p> <p>SPECIAL TOOLS: None Required.</p> <p>REWORK INSTRUCTIONS: (See FIG. 1)</p> <p>Remove from servo PCBA 102811 CR51, 52, 53 and 54. Unsolder CR55 noting cathode/anode positions. Replace CR55 with 3.3V Zener (VR19) using same polarity as CR55.</p> <p>****HINT**** Clip Out CR 51-54 With Small Diagonal Cutters.</p>								Quantity	Descriptive Specification	Circuit Designator	1	Zener, 3.3V, +5%, 500 mw IN5226B	VR19
Quantity	Descriptive Specification	Circuit Designator											
1	Zener, 3.3V, +5%, 500 mw IN5226B	VR19											

Should Additional Information Be Required — Contact

PERTEC

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 PERTEC PUBLICATIONS

Distribution Code - 6318

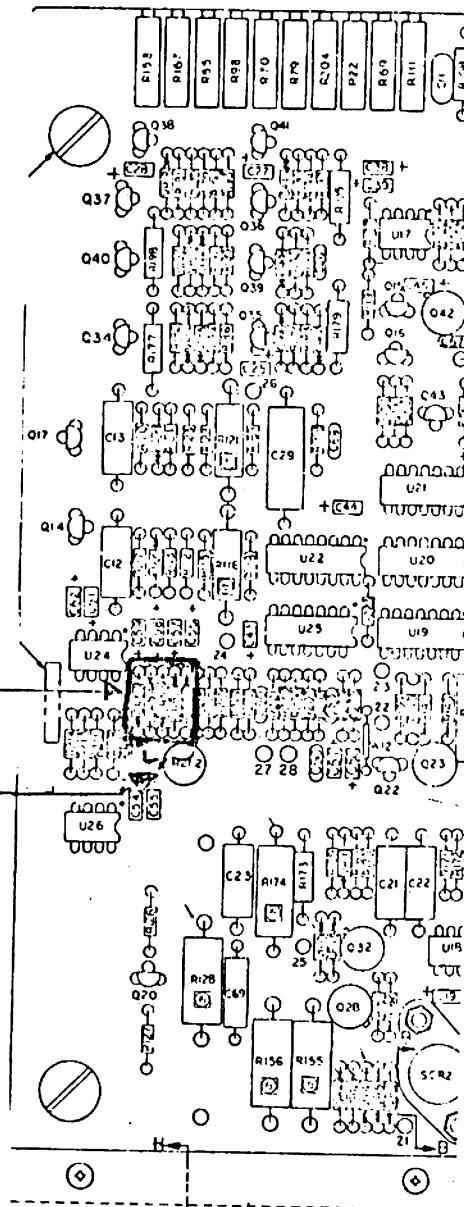
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DK-3002

TEST PROCEDURE:

Perform A/C Motor Speed control adjustments as outlined in D3000 Manual, Section 6.6.3.

FIG. 1

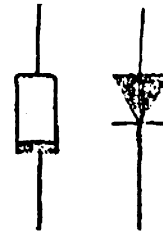


ONLY PART OF
102811 IS SHOWN

REFERENCE THIS
PARTIAL DRAWING WITH
DRAWING 102811

REPLACE CR55 WITH
3.3V ZENER

CLIP OUT CR51, 52,
53 and 54



DIODE ORIENTATION

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DRAWING CHANGES ARE AS FOLLOWS:

DRAWING #102810 SHEET 1 OF 3

Zone G-5

Delete: CR51, 54

Change: From To
 CR55 VR19

DRAWING #102810 SHEET 3 OF 3

Zone F-13

Table I:

Delete From

300-4446

CR51 thru 55

Add To

331-0335

VR19

DRAWING #102811

Zone E-7

Delete: CR51 thru 55

Add: VR19 in place of CR55

D3000 MANUAL

SECTION 5 PAGE 44

Change last sentence to read:

"Zener diode VR19 and CR56 limit the maximum positive voltage to approximately + 2.0V."

D3000 MANUAL

SECTION 5 PAGE 45

Change first sentence to read:

"Zener VR19, CR56 and R128 limit the lower excursion of the voltage to approximately 0V."

PARTS DISPOSITION:

Scrap CR51 thru 55

TIME REQUIRED:

One-half hour

REVISION LEVEL:

Change revision of LM102811-01 on Servo PCBA to:

LM102811-01-V-6147-PARTIAL

└─ Shall Remain As Is