

PERIPHERAL EQUIPMENT DIVISION

TITLE "INDEX TO DATA" (CIRCUMFERENTIAL) ADJUSTMENTS				PIB NO. DK-3011 A	
PRODUCT LINE: TAPE DISK FORMATTER		EQUIPMENT CHANGED All D3000's	MODEL SERIES AFFECTED D3000		EFFECTIVE DATE June 14, 1974
CLASS OF BULLETIN: <input type="checkbox"/> IMPROVEMENT <input type="checkbox"/> RETROFIT ON FAILURE <input type="checkbox"/> RETROFIT RECOMMENDED <input checked="" type="checkbox"/> SERVICE INFORMATION ONLY		ORDER PART KIT NO. N/A	EFFECTIVITY ALL MODEL D3000 DISK DRIVES. NOTE: PIB DK-3011A REPLACES PIB DK-3011 IN ITS ENTIRETY. <u>Remove & Destroy PIB DK-3011!</u>		
<p>INFORMATION: There has been some conflicting information regarding the proper timing of the index-to-data adjustment in the D3000 series disk drives. Index-to-data timing must be set to 30+ 5 micro seconds on all models of the D3000, standard interface, 30+ 5 micro seconds on Top Load Diablo Interface, and 75+ micro seconds on all Front Load Diablo compatible interfaces (Drive Speed is no consequence).</p> <p style="text-align: center;"><u>NOTE:</u></p> <p style="text-align: center;">IF DRIVE HAS AN S.C. NO. (SPECIAL CONFIGURATION NO.) ON SERIAL NUMBER TAG, TIMING MAY BE DIFFERENT OTHER THAN LISTED HEREIN. FOR ADDITIONAL INFORMATION ON S.C. NO., CONTACT PRODUCT SUPPORT.</p> <p>ACTION: When performing the index-to-data adjustment on a D3000 series disk, monitor the index-to-data timing by connecting Channel A of the oscilloscope to the Index Pulse test point at the output of the Index Pulse Multiplexer (See Table I for Variations) on the Logic PCBA. (Sync negative internal) Connect Channel B to TP19 on the READ/WRITE PCBA (data).</p> <p>The timing between the fall of the index pulse and the first positive or negative data pulse shall be adjusted to 30+ 5 micro seconds or 75+ 5 micro seconds using the following adjustment procedure.</p>					

Additional Information Be Required — Contact

Distribution Code - 6318

PERTEC

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 ATTENTION: PRODUCT SUPPORT MANAGER

PERTEC 20 K012C(11)

TITLE "INDEX TO DATA" (CIRCUMFERENTIAL) ADJUSTMENTS

PIB NO.
DK3011A

FRONT LOAD

Loosen the front screw (only) of the sector photo element assembly (accessible through a hole in the top of the receiver assembly) and adjust the allen head screw (to the right front of the sensor assembly) by inserting 7.5 inch long, 3/32 allen wrench (Circumferential Adjustment Tool P/N 103609-01) from the side of the unit. Adjust this screw until the proper index/data delay is achieved, (counter-clockwise decreases time between index and data).

Retighten sensor screw and recheck index-to-data timing.

TOP LOAD

Remove bezel and loosen Phillips screw (front center) of the disk assembly which locks down the sensor assembly. Adjust allen screw (right front of the sensor assembly) until index-to-data time delay is 30 ± 5 micro seconds (clockwise direction decreases this time differential). Retighten sensor screws and recheck measurements.

NOTE (TOP LOAD)

ANY METHOD OF SECTORING OTHER THAN INDEX ONLY REQUIRES SPECIAL TEST TECHNIQUES TO OBTAIN PROPER OSCILLOSCOPE TRIGGERING. (REF. TABLE I REMARKS SECTION FOR VARIATIONS)

TABLE I

UNIT DESCRIPTION	TIMING IN μ SEC	REMARKS
Front Load Standard Interface	30 ± 5	Adjust per D3000 Manual 102780
Front Load Diablo Interface	75 ± 5	Adjust per D3000 Manual 103715
Top Load* Index Only Sectored	30 ± 5	Adjust per D3000 Manual 102780 or 103715
Top Load* Mechanically Sectored	30 ± 5	Sector Demultiplexer output must be used for triggering - <ul style="list-style-type: none"> • Standard Interface - Logic Test Point 3. • Diablo Interface - Logic Test Point 3. Adjust as normal. (D3000 Manual 102780 or 103785)
Top Load* Electronic Multinotch	30 ± 5	Remove J125 from Logic PCBA, Short Pin 14 to Pin 16 - Adjust as normal. (D3000 Manual 102780 or 103715) Remove Jumper and Replace J125 upon completion.

* ALL TOP LOAD DISK DRIVES INDEX-TO-DATA ADJUSTMENTS SHALL BE SET TO 30 ± 5 MICRO SECONDS REGARDLESS OF SPEED, INTERFACE, OR SECTORING.