

PERIPHERAL EQUIPMENT DIVISION

TITLE C.E. ALIGNMENT SPE	PIB NO. DK3058		
PRODUCT TAPE DISK XX LINE FORMATTER	equipment changed Nong		
CLASS OF BULLETIN: IMPROVEMENT RETROFIT ON FAILURE RETROFIT RECOMMENDED X SERVICE INFORMATION ONLY	ORDER PAF KIT NO. N/A		CTIVITY X, and D36XX

PURPOSE:

This bulletin specifies the CE circumferential alignment cylinder and times and radial alignment cylinders for the D33XX, D34XX, and D36XX and for a disk drive with a Pertec or a Diablo compatible interface. The interfacing is determined by the Logic PCBA on the disk drive, except for the special cases where the drive must be aligned to be Diablo media compatible but has a PERTEC interface and where the drive must be aligned to be PERTEC media compatible but has a Diablo interface.

CIRCUMFERENTIAL ALIGNMENT:

A circumferential alignment is done on the disk drive to align the sector transducer sensor to a fixed point on the disk to ensure that there will be data compatibility as cartridges are interchanged among disk drives. This is done by adjusting the position of the transducer for a specific time relationship between the falling edge of the index pulse and the fixed point on the disk which is represented by a pulse and a data burst on a specific track of a CE cartridge. The adjustment is checked on the upper and lower heads of the removable cartridge.

Table I below lists the tracks and times for the circumferential alignment for the disk drives. Refer to Operating & Service Manual, Section 6.13, for CE Alignment Procedure.

ould Additional Information Be Required — Contact

PERTEC

PERTEC 20 KO12 C (1)

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Page 1 of 4



PERIPHERAL EQUIPMENT DIVISION

C.E.	ALIGN EMI'	SPECIFICATION	FOR	D3000	DISK	DRIVE

PIB NO. DK3058

TABLE I

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MODEL(S)	P TRACK	ERTEC TIME	DIABLO CON TRACK	PATIBLE TIME
D3311, D3321	⁰⁵ 10	30 [±] 5 us	0510	30 ⁺ 5 us
D3331, D3341	⁹⁵ 10	30 ⁺ 5 us	10010	75 ⁺ 5 us
D3312, D3322	⁰⁵ 10	30 -5 us	· 05 ₁₀	18.75 ⁺ 3.12 us
D3332, D3342	⁹⁵ 10	30 ⁺ 5 us	10010	46.88 [±] 3.12 us
D3421, D3621	1010	30 ⁺ 5 us	· 10 ₁₀	30 ⁺ 5 us
D3441, D3641	19010	30 ⁺ 5 us	19010	30 ⁺ 5 us
D3422, D3622	1010	30 ⁺ 5 us	1010	18.75 ⁺ 3.12 us
D3422, D3642	19010	30 ⁺ 5 us	¹⁹⁰ 10	30 ⁺ 5 us
D3341-XXX-CW U	N/A	N/A	10010	75 ⁺ 5 us

(For all cases, the total deviation between heads 0 and 1 should be be more than twice the tolerance for each head.) (Refer to Table III.)

RADIAL ALIGNMENT:

A radial alignment is performed on the disk drive to ensure that the upper and lower heads on the removable cartridge will always be positioned on the same cylinders as different cartridges are interchanged from drive to drive and provide for cartridge compatibility. This is done by aligning the heads to a specific cylinder on the CE cartridge. A special data pattern is written on the cylinder so as to recognize it when the heads are properly positioned over that cylinder.

Table II below lists the tracks for the radial alignment of the disk drives (refer to Table III).

MODELS	PERFEC TRACK	DIABLO COMPATIBLE TRACK
D3311, D3321	⁷³ 10	73 ₁₀
D3331, D3341	10010	10510
D3312, D3322	73 ₁₀	73 ₁₀
D3332, D3342	10010	105 ₁₀



PERIPHERAL EQUIPMENT DIVISION

TITLE						
	C.E.	ALIGNMENT	SPECIFICATION	FOR D30	000 DISK DRIV	Æ

РІВ NO. DK3058

TABLE II-cont'd.

MODELS	PERIEC TRACK	DIABLO COMPATIBLE TRACK
D3421, D3621	¹⁴⁶ 10	14610
D3441, D3641	20010	20010
D3422, D3622	14610	14610
D3442, D3642	²⁰⁰ 10	20010
D3341-XXXX-CWU	N/A	105,0

REFERENCE DOCUMENTS:

Refer to Operating & Service Manuals:

- -102780 'Model D3000 Disk Memory Drive'
- -103715 'Model D3000 Disk Memory Drive with Diablo Compatible Interface'
- -104615 'Model D3000 Disk Memory Drive with Diable Compatible Interface'
- -104630 'Model D3000 Disk Memory Drive'

for C.E. alignment procedures

IDENTIFICATION:

D3XXX - XXXX - Y XX

Y = N Normal Pertec C.E. Alignment

Y = C Diablo Compatible C.E. Alignment

Y = S Special Configuration (SC) listed on the following page, in Table III.



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PIB NO. DK3058

TABLE III

PERTEC	DIABLO		
SC907 SC914 SC915 SC920 SC927 SC931 SC935 SC927	SC904 SC905 SC908 SC909 SC910 SC911 SC912 SC917 SC918 SC919	SC923 SC925 SC928 SC930 SC933 SC936	
	SC922		

NOTE: In the case of 200tpi, front load units, these units are to be Pertec compatible.