

TITLE			DATA DECODE WINDOW SETTING (103751)		PIB NO. DK3056 A	
PRODUCT LINE:	TAPE DISK FORMATTER	<input checked="" type="checkbox"/>	EQUIPMENT CHANGED	MODEL SERIES AFFECTED		EFFECTIVE DATE
			103751	D3000		April 15, 1976

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

PURPOSE

To increase margin of data recovery circuit by changing the nominal setting of the data decode window.

SYMPTOMS

Random soft data errors occurring over long time intervals.

PARTS REQUIRED

None

SPECIAL TOOLS REQUIRED

None

ADJUSTMENT PROCEDURE

1. 0 Adjust output of U30 (700-8020) for 40 to 45 nanoseconds pulse width (reference Figure 1.) measured at 50% amplitude.
 - 1.1 Trigger (+) internal and monitor TP25.
 - 1.2 Adjust R157 to 40 to 45 ns.

***** NOTE *****

Ensure oscilloscope time base in calibrated either via external calibration box or using 10 MHz oscillator on Logic PCBA.

Additional Information Be Required — Contact

DISTRIBUTION CODE - 6318

PERTEC
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 ATTENTION: PRODUCT SUPPORT MANAGER

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2.0 Adjust (long) one-shot.

2.1 Trigger (+) internal on U30-11 (TP25) (RPN)

2.2 Monitor U27-6 (TP23) (one's window).

2.3 Write all zeros with hand held tester.

a) 2.500 MHz data rate = 2400 rpm

b) 1.562 MHz data rate = 1500 rpm

2.4 Read all zeros.

2.5 While reading, adjust potentiometer R115 as follows: (Reference Figure 1)

a) 1500 rpm = 485 nanoseconds

b) 2400 rpm = 300 nanoseconds

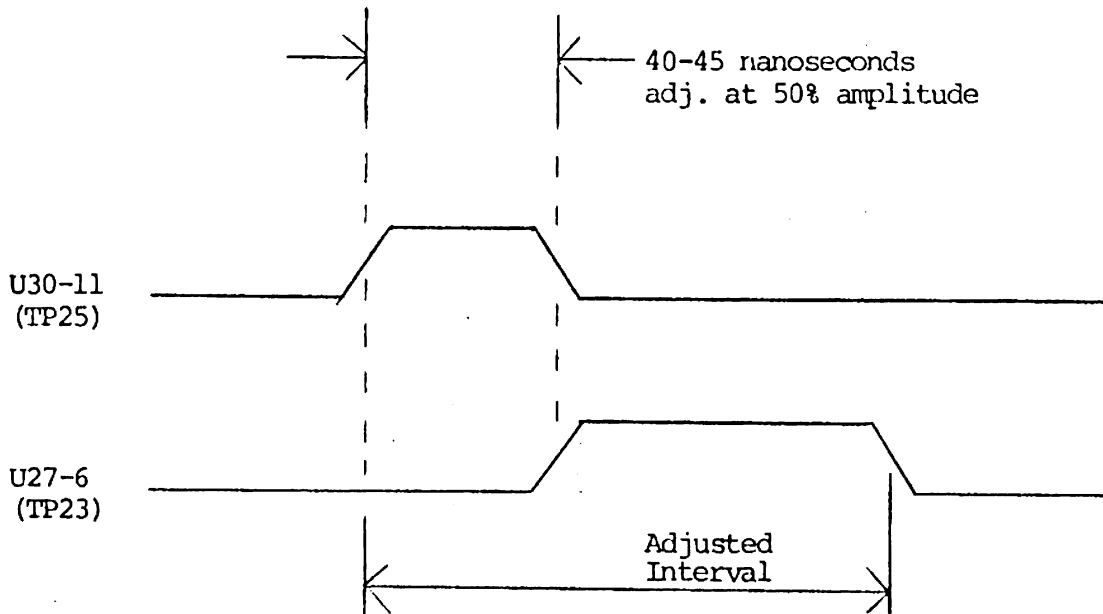


FIGURE 1.

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- 3.0 Adjust (short) one-shot.
 - 3.1 Trigger (+) internal on U30-11 (TP25) (RPN)
 - 3.2 Monitor U27-6 (TP23) (one's window).
 - 3.3 Write all ones with hand held tester
 - a) 2.5 MHz data rate = 2400 rpm
 - b) 1.562 MHz data rate = 1500 rpm
 - 3.4 Read all ones with hand held tester
 - 3.5 While reading all ones, adjust R113 (short) as follows: (Reference Figure 1)
 - a) 1500 rpm = 440 nanoseconds
 - b) 2400 rpm = 270 nanoseconds
- 4.0 Adjust read data and read clock.
 - 4.1 Trigger (+) internal on U30-11 (TP25) (RPN)
 - 4.2 Read the all ones pattern previously written in step 3.3.
 - 4.3 Monitor U28-11 (TP15) and adjust potentiometer (R153) for 125 ± 25 ns.
 - 4.4 Monitor U28-8 (TP16) and adjust potentiometer (R155) for 125 ± 25 ns.

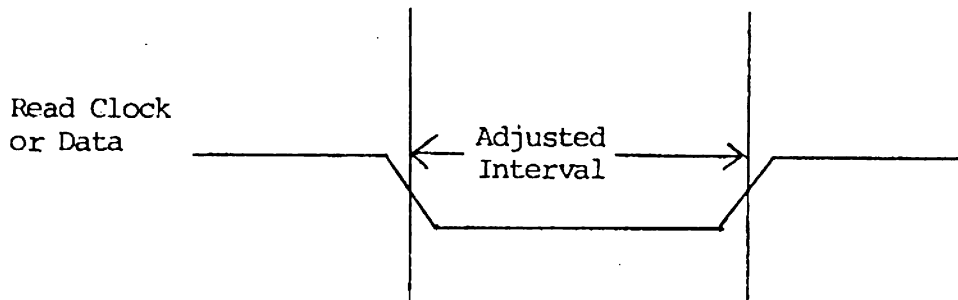
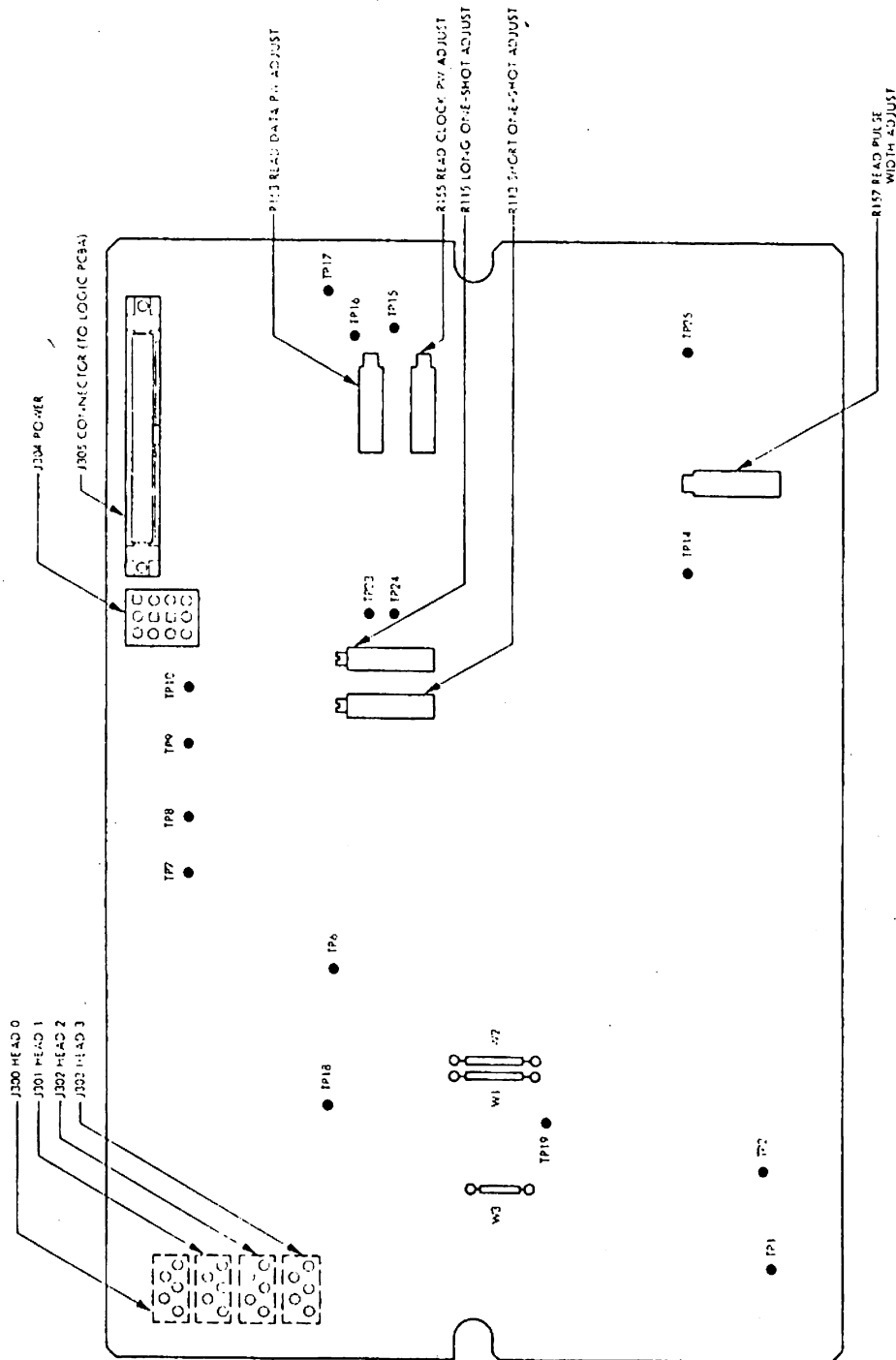


FIGURE 2.

TITLE

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	Short	Long
	R113	R115
1500	440NS	485NS
2400	270NS	300NS

FIGURE 4.