

THIS DOCUMENT CONTROLS SPECIFICATIONS AND FABRICATION OF A SPECIAL
 INSTRUMENT MANUFACTURED BY THE JOHN FLUKE MFG. CO., INC.

MODEL

9000A-Z80/AA

9000A-Z80 With 6 MHz Z80B
 Processor



JOHN FLUKE MFG. CO., INC.
 P.O. BOX C9090, EVERETT, WA 98206

SPECIFICATION CONTROL DRAWING

ENGR. <i>Lee Mander</i>	DATE 9-10-82
MKTG. <i>E. Mather</i>	DATE 9-10-82
MFG. <i>Borst</i>	DATE 9-7-82
Q.A. <i>J. Blanchard</i>	DATE 9/14/82
B.U. MGR. <i>D. Lambert</i>	DATE 9-10-82

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JF NO. 681106

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REV. A

9000A-Z80/AA-130

DOCUMENT CHANGE RECORD

REV LTR	PAGE	DESCRIPTION OF CHANGE
A	2	Up REV letter
	6	Changed paragraph 6.1, section 1-A to indicted new clock circuitry. Added figure of clock circuitry to bottom of page.
	7	Added part numbers to paragraph 6.2, sections 3 and 4. <i>John Curry 7-26-85</i>
		JOHN FLUKE MANUFACTURING CO., INC.
		9000A-Z80/AA-130
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MODEL: 9000A-Z80/AA

ITEM	DRAWING NUMBER	DRAWING TITLE	SHEETS	B/MTL	USAGE		
					MFG	MNLS	
1	9000A-Z80/AA	-130 Summary			X	X	
2							
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1.0 GENERAL DESCRIPTION

The 9000A-Z80/AA is a standard 9000A-Z80 pod with the Z80 microprocessor replaced by a Z80B, additional circuit components and the UUT cable are replaced, then tested and verified for operation at 6 MHz.

Pod function and operation of the 9000A-Z80/AA is identical to that of the 9000A-Z80 pod.

2.0 ELECTRICAL SPECIFICATIONS

2.1 Maximum Clock Frequency: 6.0 MHz Typ.

All other specifications are the same as the standard 9000A-Z80 pod.

3.0 MECHANICAL SPECIFICATIONS

Same as standard 9000A-Z80 pod.

4.0 PARTS LIST

4.1 Purchased Parts

<u>Qty.</u>	<u>Description</u>	<u>P/N</u>
1 ea	I.C. Z80B CPU Microprocessor	

4.2 Stock Parts

3 ea	I.C. 74ALS245	647214
1 ea	UUT Cable	685461

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4.3 Fab Parts

None

4.4 Deleted Parts

<u>Qty.</u>	<u>Description</u>	<u>P/N</u>
3 ea	I.C. 74C245AC	535906
1 ea	I.C. μ P Z80A	478073
	UUT Cable	585141

4.5 Finished Goods Parts

1 ea	9000A-Z80 Pod	587733
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5.0 DOCUMENTATION

5.1 Manual

1 ea Standard 9000A-Z80 Manual

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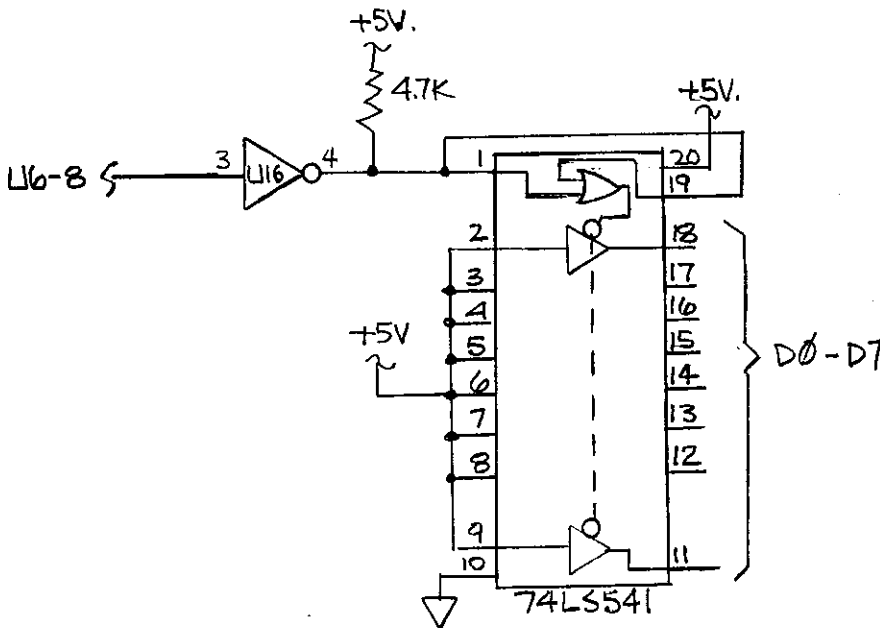
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6.0 TEST PROCEDURE

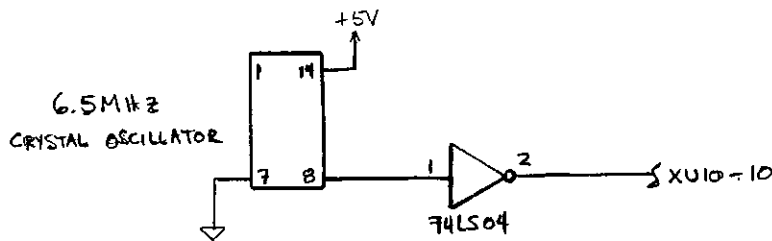
6.1 Equipment Required

- (1) Modified Z80 Test Fixture as described below:
 - A. Replace U10 and Y1 with the 6.5 MHz crystal oscillator and inverter circuit shown at the bottom of this page.
 - B. Replace programmed eprom from 2716-1 to 2732A-2.
 - C. Modify interrupt vector circuit as shown below:



- (2) Standard 9010 Pod Test Station using existing test program.

Circuit for paragraph 6.1, section 1-A above.



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6.2 Pod Modification & Test

1. Remove covers from pod, remove shield, existing UUT cable, and separate P.C.B.'s.
2. On processor PCB, replace U5 Z80A microprocessor with Z80B CPU.
3. On interface PCB, replace U1, U3 and U5 with 74ALS245 P/N 647214.
4. Replace UUT cable with shielded configuration P/N 685461.
5. Reassemble PCB's, replace shield.
6. Add printed label on shield which reads:
NOTE: This instrument is a special,
modified per 9000A-Z80/AA-130.
7. Replace covers, add printed label adjacent to serial number which reads: 9000A-Z80/AA.
8. Test unit per standard Z80-150 Test Procedure.

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