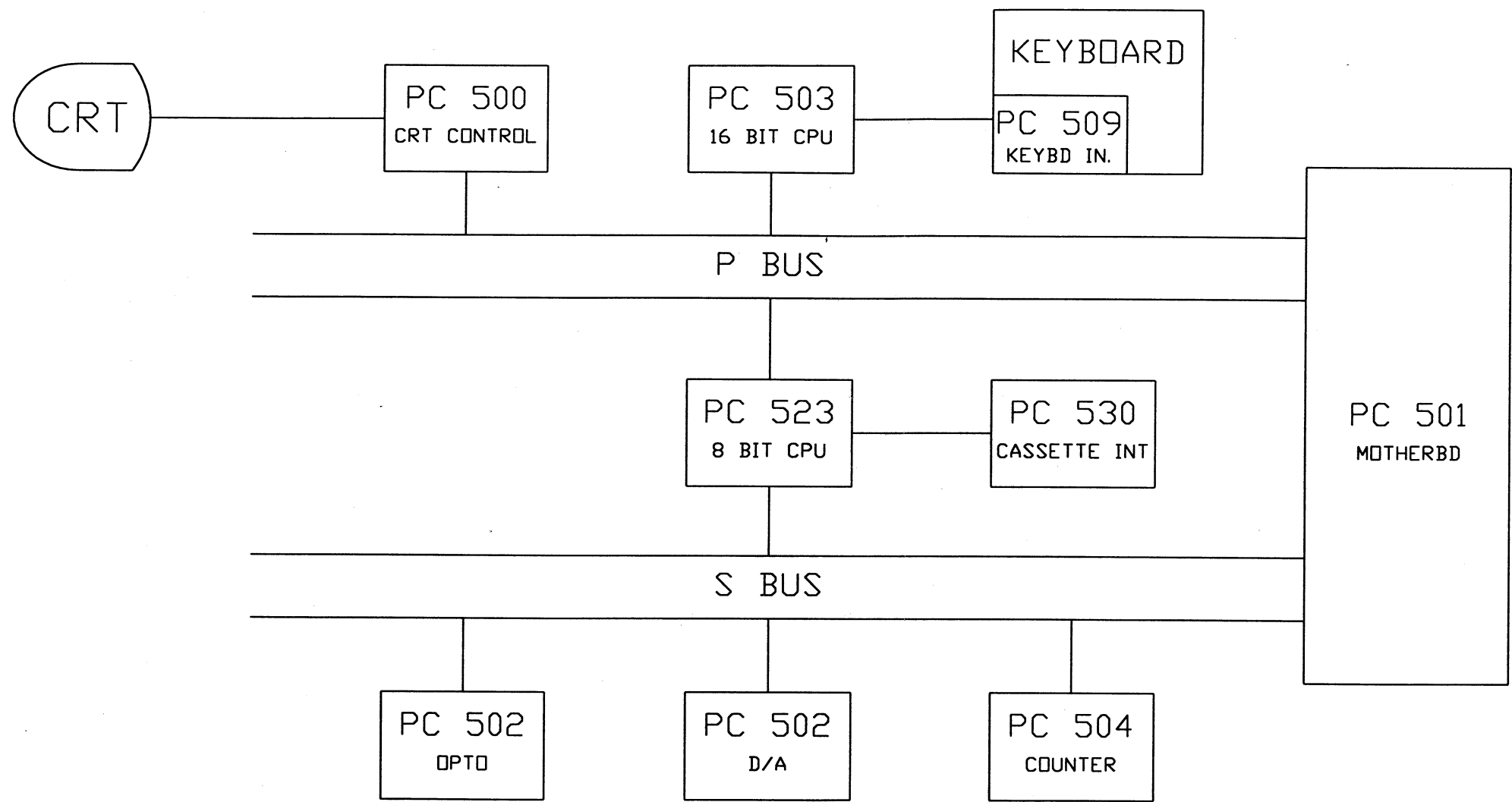


WIRING DIAGRAMS

CRUSADER "M"

REV.	DATE	DESCRIPTION	BY
ANILAM Inc. Miramar, Florida U.S.A.		ANILAM	
DESCRIPTION			
SCALE		CHECK BY	DATE
DRAWN BY	DATE	APP'D BY	DATE
DRAWING NO.		70000210	REV.



REV.	DATE	DESCRIPTION	BY
		ANILAM ELECTRONICS, INC. MIRAMAR, FLORIDA U.S.A.	ANILAM
DESCRIPTION			
CRUS M BLOCK DIAGRAM			
SCALE		CHECK BY	DATE
DRAWN BY	DATE	APP'D BY	DATE
DRAWING NO.			REV.
SHT			OF

SERVO AMP SCHEMATICS
AND WIRE DIAGRAMS
CRUSADER M

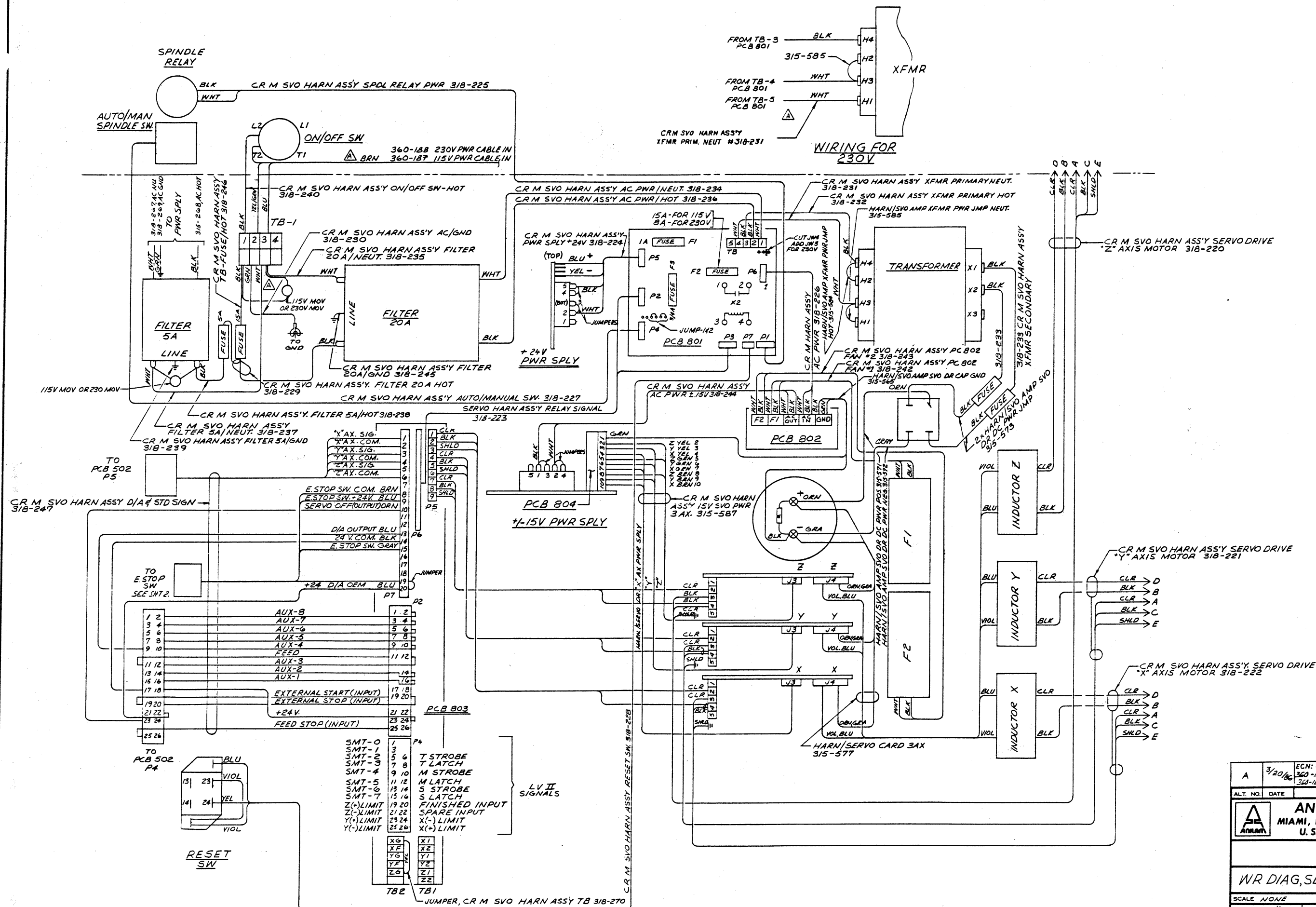
CPU CARD

8 OFF
7 ON
6 ON
5 ON
4 OFF
3 OFF
2 OFF
1 OFF

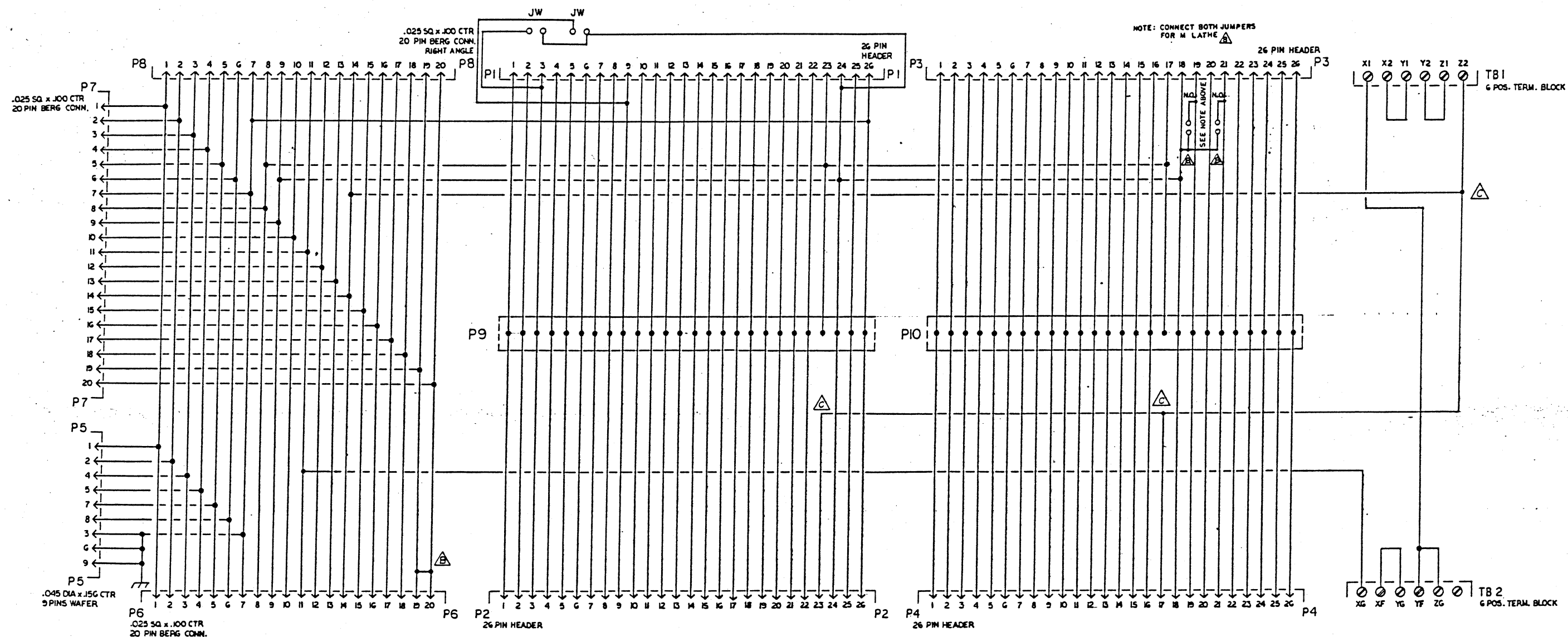
UNLESS OTHERWISE SPECIFIED
1/8 ± 1/64
X ± .010
XX ± .005
XXX ± .0005
XXXX ± .0001
X ± .0001
CONCENTRICITY .004 TIR
REMOVE ALL SHARP EDGES AND BURRS
ALL DIMENSIONS IN INCHES
DO NOT SCALE THIS DRAWING

REV.	DATE	DESCRIPTION	BY
		 ANILAM ELECTRONICS MIAMI, FLORIDA U. S. A. MILTON KEYNES ENGLAND	
DESCRIPTION COVER SHEET			
SCALE 1:1		CHECK BY	DATE
DRAWN BY ETW		DATE 4/1/74	APPROVED BY
DRAWING NO 0000719		SHT OF	REV.

GENERAL NOTES

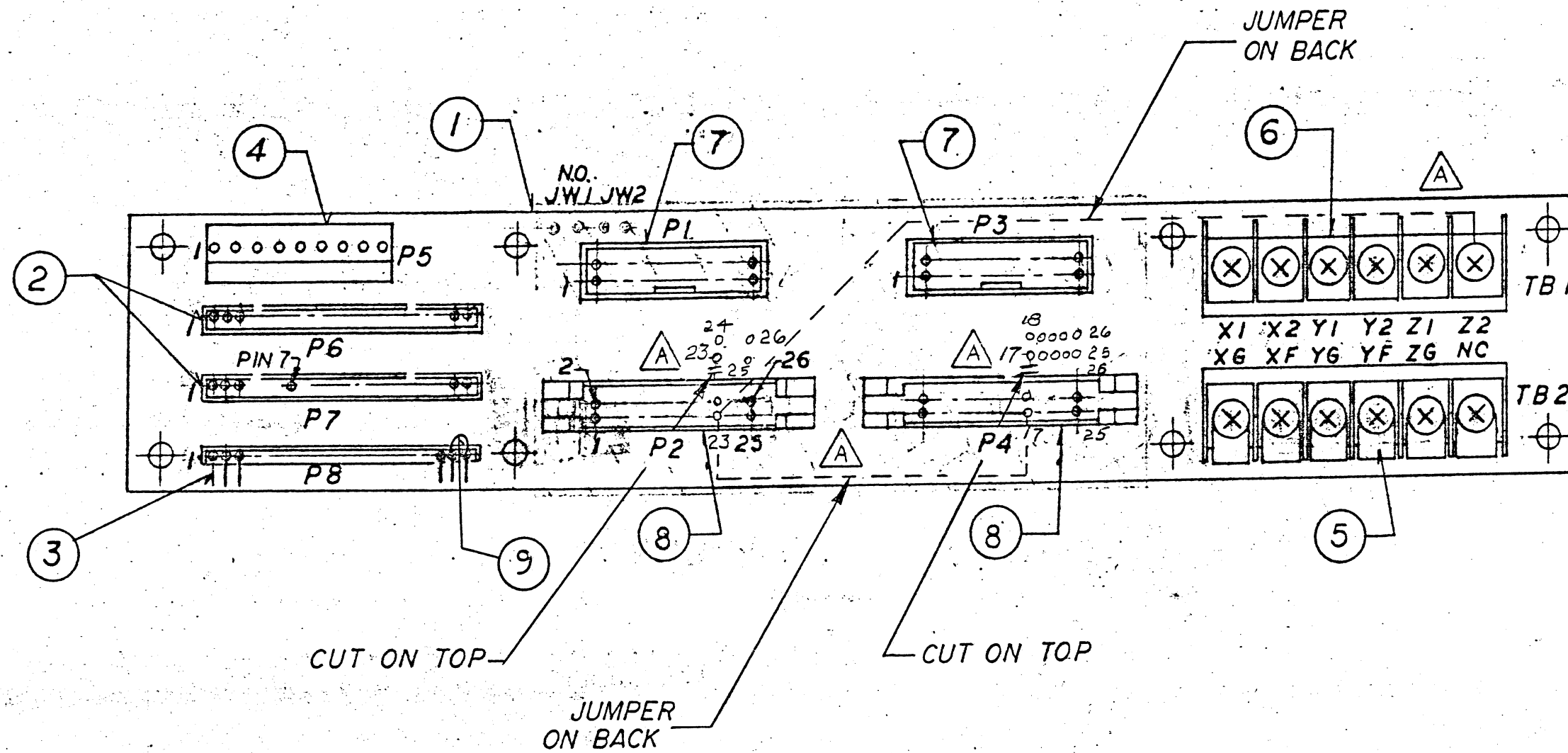


A	3/20/86	ECN: 86-049		DELETED CABLES	W
		360 - 122 # 360 - 123, ADDED 174 CABLES			
		360 - 187 # 360 - 188 # 174 IN. 316 - 251			
ALT. NO.	DATE	DESCRIPTION			BY
	ANILAM ELECTRONICS			BY	
	MIAMI, FLORIDA			MILTON KEYNES	
U. S. A.			ENGLAND		
WR DIAG, SDMT SERVO / WAPC / CR					
SCALE NONE		CHECK BY		DATE	
DRAWN BY <i>MS</i>		DATE <i>12/12/85</i>		APPROVED BY	
PART NO.		DRAWING NO.		ALT. NO.	
301-154		SHT 1 of 2		A	



C	4/15/86	ECN: 86-058, CUT P2-23, P4-23, P6-23, P8-23, AND 22-23.	
B	3-1-86	ECN 86-036: ADD JUMPER TO P6 TO TYPED CONN. ADD JUMPERS TO P4 18-419, 18-421	
A	2-27-86	ECN 85-130 REV MISC INFO AS REE. ECN	
ALT. NO.	DATE	DESCRIPTION	BY
ANILAM ELECTRONICS MIAMI, FLORIDA MILTON KEYNES U. S. A. ENGLAND			
PC 803			
SERVO CONN. INTERFACE			
SCALE NONE		CHECK BY	DATE
DRAWN BY HK		DATE 4/15/86	APPROVED BY 1/1
PART NO. 901-176		DRAWING NO. 1 OF 1	ALT. NO. C

1. CUT P2-23 & P4-17
ON FRONT BEFORE
ASSEMBLY.

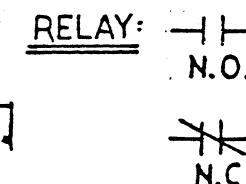


A	4/16/86	ECN: 86-058		WDM
		DISCONNECT P2-23 FR P3-23 & P4-17 FR P10-17. CONN P4-17, P2-23, & TBI-22 WIUMPRS.		CS
REV.	DATE	DESCRIPTION		
		ANILAM ELECTRONICS MIAMI, FLORIDA MILTON KEYNES U. S. A. ENGLAND		
DESCRIPTION				
PCB: 803 ASSEMBLY SERVO INTFC CR "M"				
SCALE	NONE		CHECK BY	DATE
DRAWN BY	CM		APPROVED BY	DATE
CR. WING NO.	315-197		JHT	OF 1
				REV. A

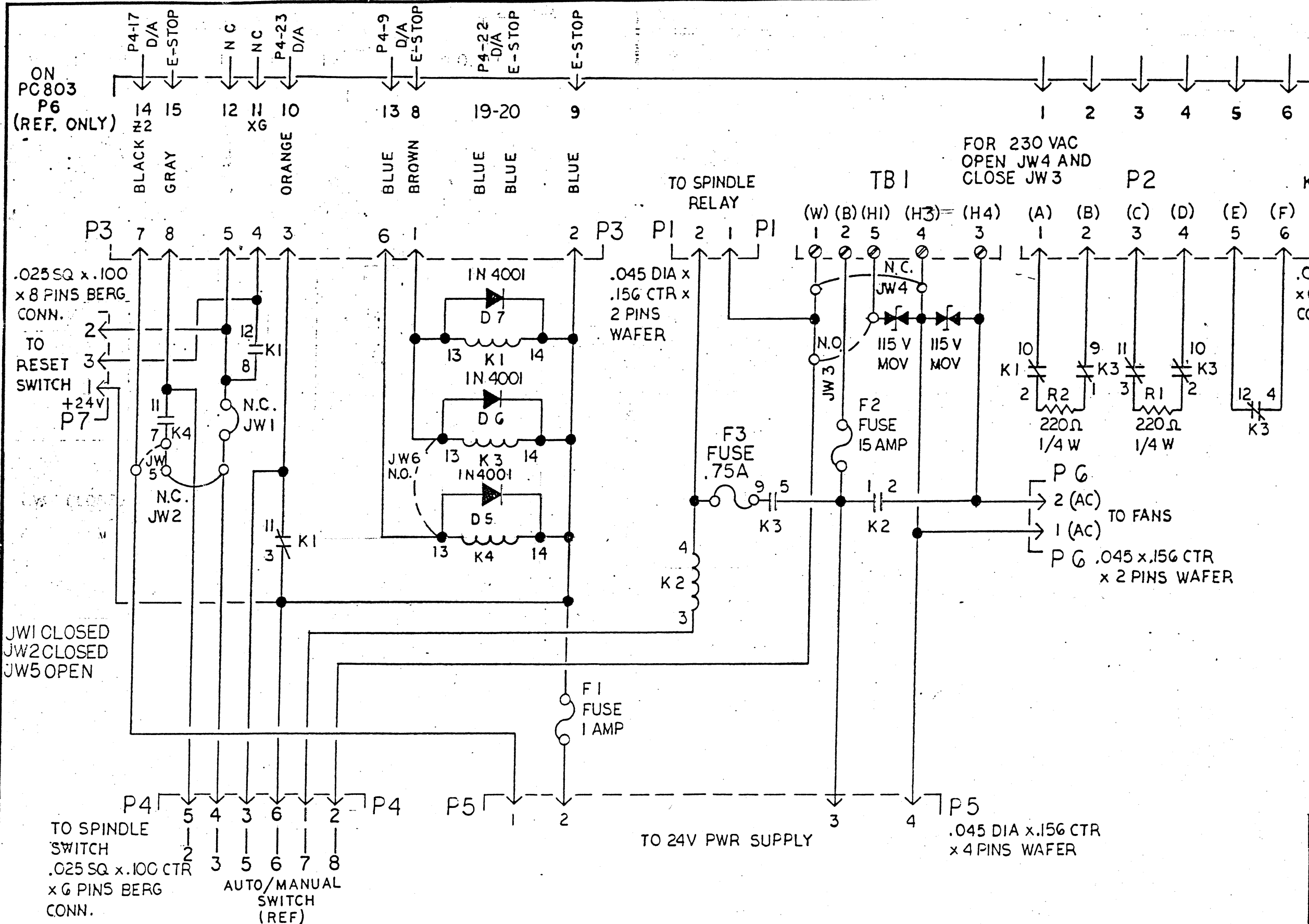
UNLESS OTHERWISE SPECIFIED	
K	2 1/4"
KX	2.010
KXX	2.008
KXXX	2.0008
K*	2 1/4" - 3"
CONCENTRICITY	.004 TIR

REMOVE ALL SHARP EDGES AND ALL DIMENSIONS IN INCHES
DO NOT SCALE THIS DRAWING

GENERAL NOTES



K2: SOLID STATE RELAY
 120/240 VAC COIL
 K1, K3, K4: SOCKET MOUNT 24 VDC COIL



A	5/2/86	ELN 86-084	JPR
ALT NO	DATE	DESCRIPTION	BY
 ANILAM ELECTRONICS MIAMI, FLORIDA U.S.A. MILTON KEYNES ENGLAND			
PCB 801-CRUS "M"			
SERVO CIRCUIT BOARD			
SCALE NONE		CHECK BY	DATE
DRAWN BY KMD		DATE 11/1/85	APPROVED BY [Signature] DATE 2/27
PART NO 315-196		DRAWING NO 2CF2	ALT NO A

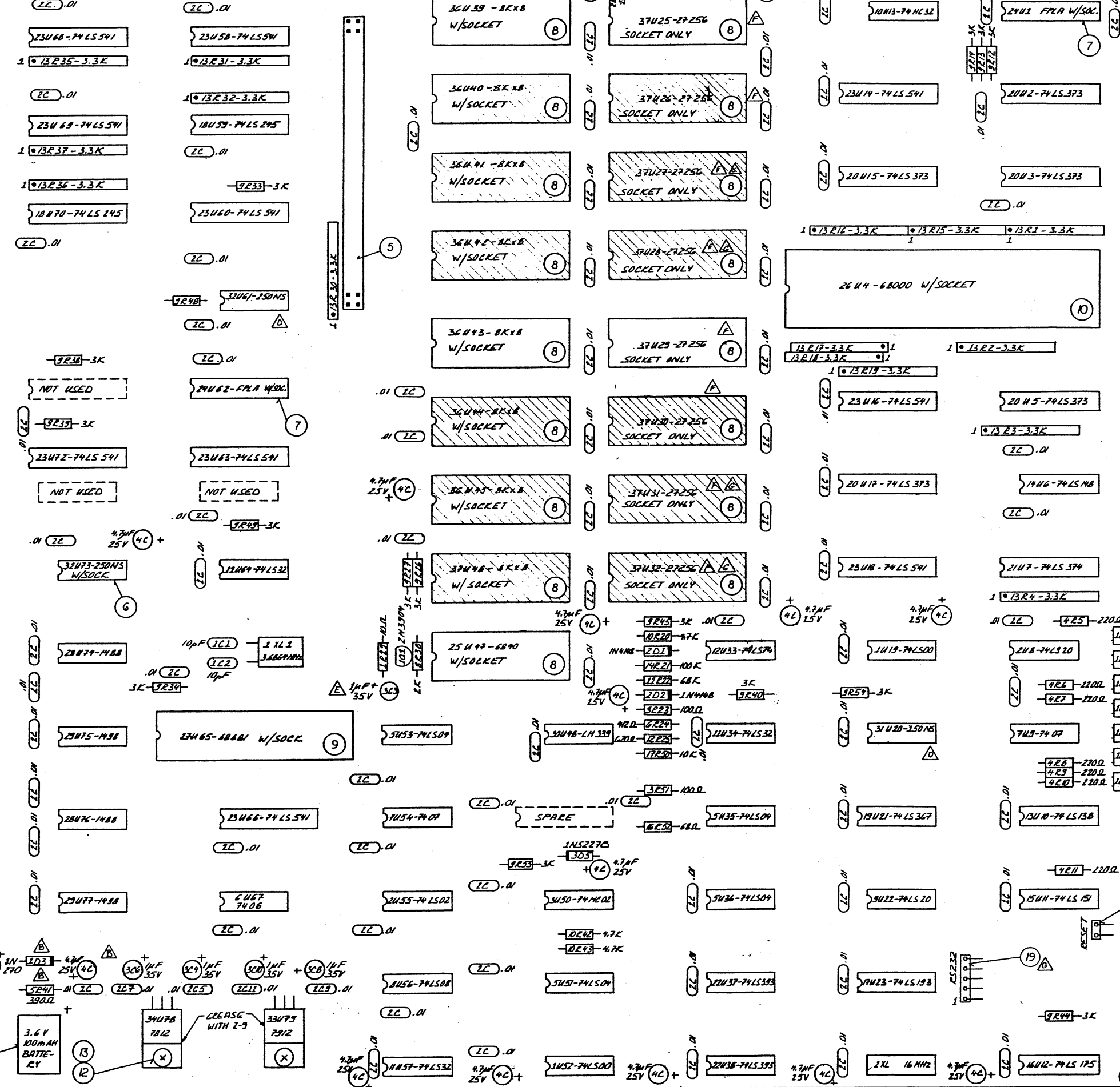


B

A

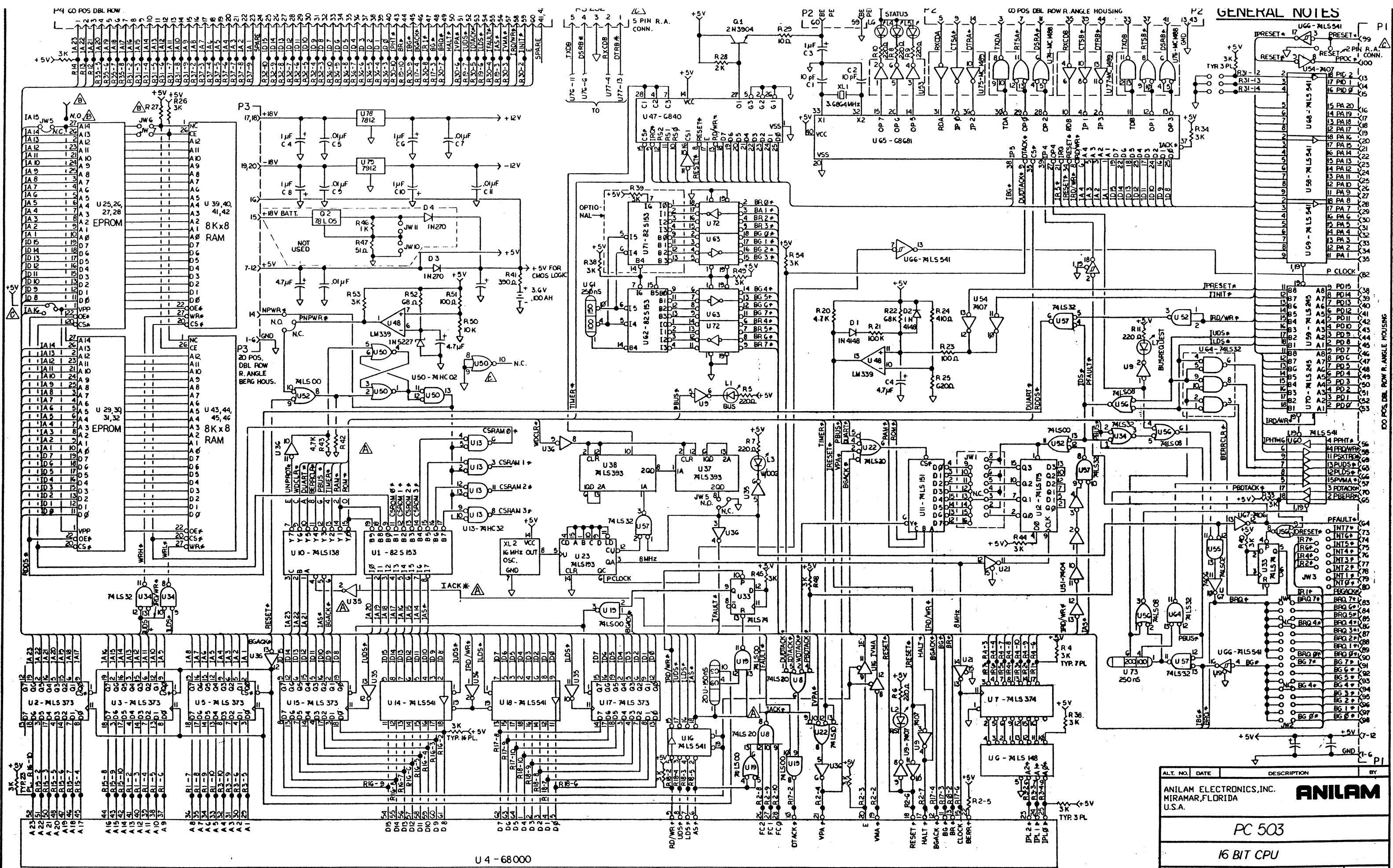
VALUES OTHERWISE SPECIFIED	
$\frac{1}{2}$ "	$\frac{1}{4}$ "
.XX	1.010
.XXX	1.005
.XXXX	1.0005
X°	1° - 0'
CONCENTRICITY	.004 TIR

REMOVE ALL SHARP EDGES AND BURRS
 ALL DIMENSIONS IN INCHES
 DO NOT SCALE THIS DRAWING



PART No.	DESCRIPTION	DELETE	REV.
318-051	PCB 503 16 BIT CPU ASSEMBLY	IT. MARKED	E
318-066	PCB 503 16 BIT CPU ASSY OR 'G'	NONE	C

G	22.5.87	ECN:87-072-ADDED 17.17 & 18 FOR BOTH BOARDS & FOR 318-066 ADDED IC 37U-27256	HK/1
F	24.2.87	ECN:87-073-DEL. IC 27U4	HK
E	5/2/86	ECN:86-078 IMF CAP '3C3' REVERSED	Wm/1
D	4/1/86	ECN:86-045 REMOVED W/SOCKET FROM 32U61 & 31U20	Wm/1
C	10/28/85	ECN:85-155 ITEM 15 WAS IN	KM/CR
B	3.3.85	NPT: CHANGE DWG No. 318-05 TO D.000.150 & ADDED 318-066 ASSEMBLY	HK/25
A	1.29.85	ECN:85-015-DELETE 32U41, 32U46, 10U4	KM/25
ALT. NO.	DATE	DESCRIPTION	BY
ANILAM ELECTRONICS, INC. MIRAMAR, FLORIDA U.S.A.			
ANILAM			
ASSEMBLY			
PCB 503 16 BIT CPU ASSEMBLY			
SCALE 1:1	CHECK BY	DATE	
DRAWN BY HK	DATE 3.11.84	APPROVED BY CS	DATE 8/21/84
PART NO D000 150	DRAWING NO 1 OF 1	ALT. NO. G	



ALT. NO.	DATE	DESCRIPTION	BY
ANILAM ELECTRONICS, INC.			
MIRAMAR, FLORIDA			
U.S.A.			
PC 503			
16 BIT CPU			
SCALE NONE	CHECK BY	DATE	
DRAWN BY N.K.	DATE 7.5.84	APPROVED BY CS	DATE 7/27/84
PART NO.	DRAWING NO.	ALT. NO.	
901-163	1 OF 1	C	

U 4 - 68000

D 8/1/81

ECN: 87-112

FABRICATION DWG AND

TAPE MASTER, REVISED.

NG

ECN: 86-187-ADDED RS 232 C/ANAL & RESET

CONN. GROUND PINS 819 ON U50. ADDED

JUMPER TO I/AIG-EPROM 27256.

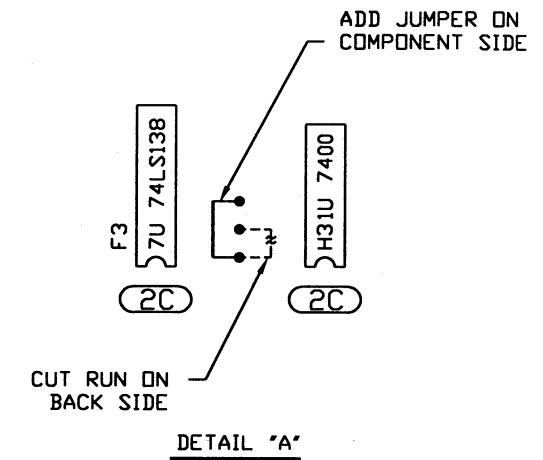
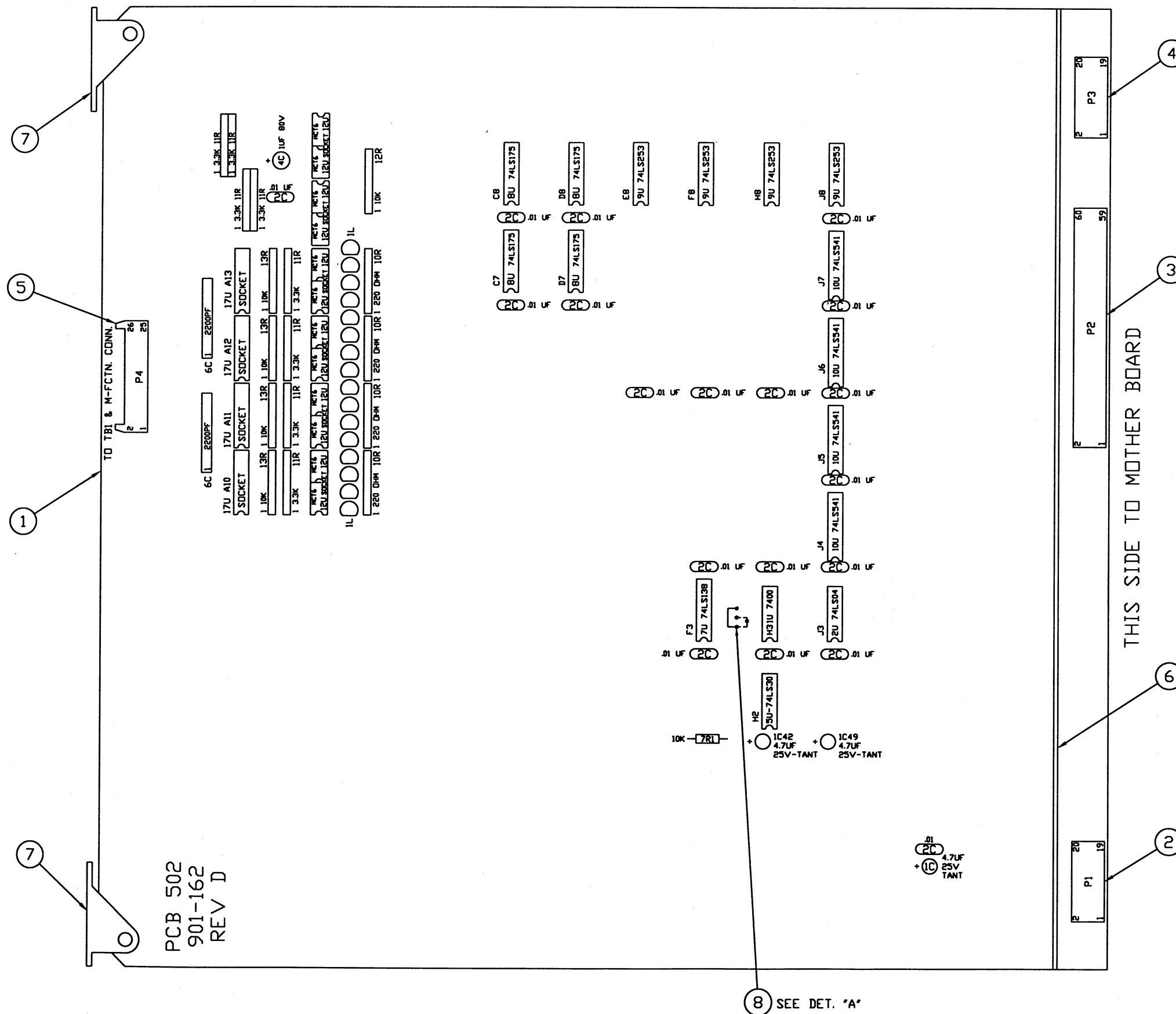
B 11/20/85 ECN: 85-467 REV EPROM U25-26

A 4.8.85

ECN: 85-050 REV SURVIVOR

ADD: 055, PAGE 2 OF 2

GENERAL NOTES



E	1.19.90	ECN-89-167 CHANGED OPTD. SEC. TO THAT OF PC482	ERD
REV.	DATE	DESCRIPTION	BY
ANILAM ELECTRONICS, INC. MIRAMAR, FLORIDA U.S.A.		ANILAM	
DESCRIPTION			
ASSEMBLY, PC502 I/O			
SCALE	NONE	CHECK BY	DATE
DRAWN BY	ERD	DATE 1.18.90	APP'D BY
DRAWING NO. 31800060			REV. E
SHT 1 OF 1			