

Laurel Message

From: Taft.PA

Date: 24 March 1980 5:23 pm PST
(Monday)

Subject: Bug in 3K CRAM

To: Orr, Overton, Quarterman, Winfield, Mann, Burns

XEROX

The new batch of 3K CRAM boards have an error on them. There is a jumper wire from A61-5 to A60-8 (p. 3 of fabrication instructions) that should not be there. It causes flaky Ethernet behavior on some machines. I found this error during the last round of debugging, but SPG failed to delete this jumper from the fabrication instructions, so it is likely that any boards you have received to date contain this error.

Ed

cc: Blanchard.WBST
DMurray.WBST
Taft

REWORK INSTRUCTION FOR CONTROL MODULE WITH 3K CRAM.
(REFER TO FIGURE1)

- CUT ETCH TO FEED THROUGH P2-14 (ETCH SIDE)
- CUT ETCH TO FEED THROUGH P2-12 (ETCH SIDE)
- CUT ETCH BETWEEN U51-8 AND U51-7 (ETCH)
- CUT ETCH TO U70-10 (ETCH SIDE)

- ADD JUMPER FROM U37-12 TO U37-7 (ETCH)
- ADD JUMPER FROM U51-7 TO U39-3 (ETCH)
- ADD JUMPER FROM U68-9 TO FEED THROUGH P2-14 (ETCH SIDE)
- ADD JUMPER FROM U68-12 TO FEED THROUGH P2-12 (ETCH SIDE)
- ADD JUMPER FROM U25-11 TO FEED THROUGH P3-7 (ETCH SIDE)
- ADD JUMPER FROM U25-3 TO FEED THROUGH P3-8 (ETCH SIDE)
- ADD JUMPER FROM U25-4 TO FEED THROUGH P3-9 (ETCH SIDE)
- ADD JUMPER FROM U25-6 TO FEED THROUGH P3-10 (ETCH SIDE)

REPLACE U51 WITH SW3K PROM (82S126)

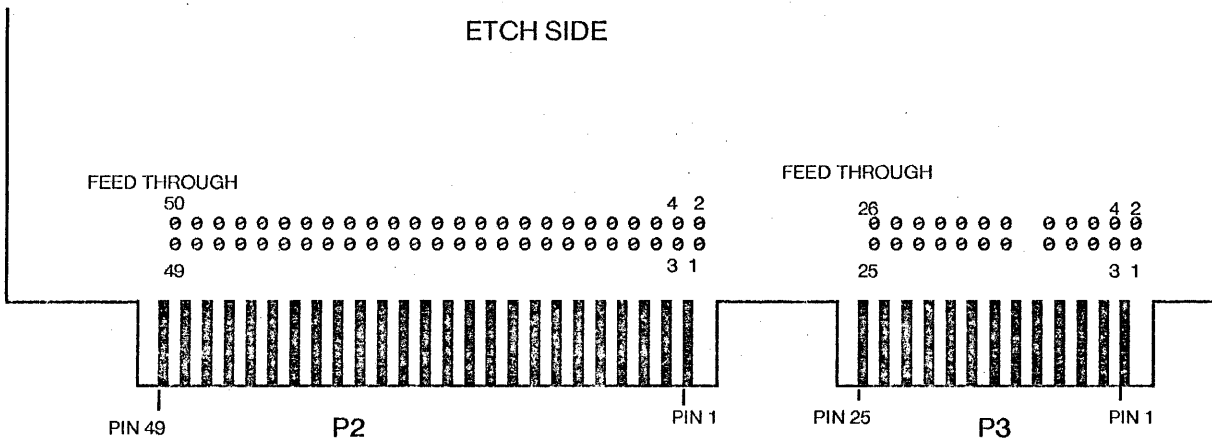


FIGURE 1

ISIS<PAE>DRAWINGS>CONTROL-MOD.SIL

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Title	Xerox Corporation El Segundo, California		
File	Dwg. No.	Rev. A	
CONTROL-MOD.SIL	Sheet 12	Of 4	

Xerox Corporation El Segundo, California		XEROX	
Dwg. No.	Rev. A		
Sheet 12	Of 4		

Revisions				
LAL	Rev	Description	Chk	Approved
A	A	ENGRG REL		
	B	ENGRG REL		1/24/80 PAE
	C			3/1/80 WAKIDA

ISIS<PAE>DRAWINGS>2178120-C.SIL

Dist Code

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	1. Tolerances .xx +.03 Angular .xxx +.010 +1/2°	Check	<p>ASSEMBLY, PRINTED WIRING- 3K CRAM</p>	
	2. Break All Sharp Edges .010 Approx	Appr.		
	3. Mach. Surfaces ✓	Material		
4. All Dim. in Inches				

Model No. First Use	Finish	Code Ident 18338	Size A	Dwg. No. 217812	Change Letter C
Next Assy. First Use	File 3KCRAM01.SIL	Scale	Do Not Scale Drawing	Sheet 1 OF 16	

NOTE: UNLESS OTHERWISE SPECIFIED.

1. FABRICATE PER XEROX SPEC 209454.

2. CUT ETCH PER INSTRUCTIONS.

A. CUT ALL ETCH LEADING TO



CUT ALL ETCH LEADING TO

A52-11	ONE CUT	(ETCH SIDE)
A49-11	TWO CUTS	(ETCH SIDE)
A50-11	TWO CUTS	(ETCH SIDE)
A62-11	TWO CUTS	(COMP & ETCH)
A63-11	TWO CUTS	(COMP & ETCH)
A65-11	TWO CUTS	(COMP & ETCH)
A75-11	TWO CUTS	(COMP & ETCH)
A78-11	TWO CUTS	(ETCH SIDE)
A88-11	TWO CUTS	(COMP. SIDE)
A91-11	TWO CUTS	(ETCH SIDE)
A61-15	ONE CUTS	(COMP. SIDE)
A25-1	ONE CUT	(ETCH SIDE)

B. CUT BOTH ETCH TO FEEDTHROW BETWEEN A68-18 AND A69-1 (ETCH,COMP)

C. CUT ETCH TO FEED THROUGH BETWEEN A52-10 AND A53-9 (COMP SIDE)

D. CUT ETCH TO EDGE CONNECTOR FINGER	J2-13 (ETCH SIDE)	#
E. CUT ETCH TO EDGE CONNECTOR FINGER	J2-15 (ETCH SIDE)	#
F. CUT ETCH TO EDGE CONNECTOR FINGER	J2-29 (ETCH SIDE)	#
G. CUT ETCH TO EDGE CONNECTOR FINGER	J2-30 (ETCH SIDE)	#
H. CUT ETCH TO A84-1 (COMP SIDE)	#	

3. ADD JUMPER PER INSTRUCTION

A. ADD JUMPER FROM	P2-12	TO	A70-9	(ETCH SIDE)	#
B. ADD JUMPER FROM	P2-13	TO	A90-9	(ETCH SIDE)	#
C. ADD JUMPER FROM	P2-15	TO	A91-9	(ETCH SIDE)	#
D. ADD JUMPER FROM	P2-29	TO	A92-9	(ETCH SIDE)	#
E. ADD JUMPER FROM	P2-30	TO	A93-9	(ETCH SIDE)	#

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Title
ASSEMBLY, P.W.
3K CRAM

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217812		FC	
Sheet	2	Of	16

4. ADD JUMPER PER INSTRUCTION

- a. A49-11 TO A23-5
- A62-11 TO A23-3
- A75-11 TO A23-1
- A88-11 TO A12-1
- A50-11 TO A12-3
- A52-11 TO A23-9
- A63-11 TO A12-5
- A65-11 TO A23-11
- A78-11 TO A23-13
- A91-11 TO A12-13
- A21-15 TO A21-8
- A24-13 TO A25-1
- A87-15 TO A87-8
- A66-11 TO A35-7
- A57-1 TO P1-69
- A57-2 TO A39-1
- A57-3 TO A61-15
- A61-5 TO A60-8
- A45-4 TO A12-9
- A12-8 TO FEED THROUGH BETWEEN A52-10 AND A53-9

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Title
ASSEMBLY, P.W.
3K CRAM

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217812		C	
Sheet	3	Of	16

5.0 DRILL HOLE:

a. DRILL HOLE PER FIGURE 3.

6.0 MOUNT CABLE ASSEMBLY (2533) AND PLATE ASSEMBLY (218054-001) PER FIG. 1 AND FIG. 2.

7.0A ADD WIRE (OSERVE FIGURE 4)

CONDUCTOR 1 TO A83-07
 CONDUCTOR 2 TO A84-08
 CONDUCTOR 7 TO A84-13
 CONDUCTOR 8 TO A84-14
 CONDUCTOR 9 TO A84-15
 CONDUCTOR 10 TO A84-01

GND
 GND
 CT8
 CT4
 CT3
 CT1

CIRCUIT SIDE
 CIRCUIT SIDE
 CIRCUIT SIDE
 CIRCUIT SIDE
 CIRCUIT SIDE
 CIRCUIT SIDE

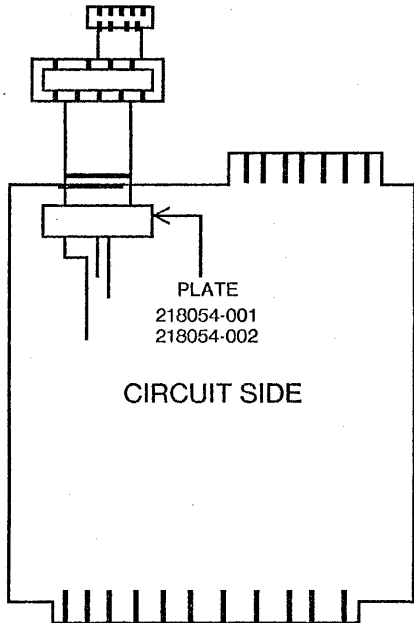


FIG. 1

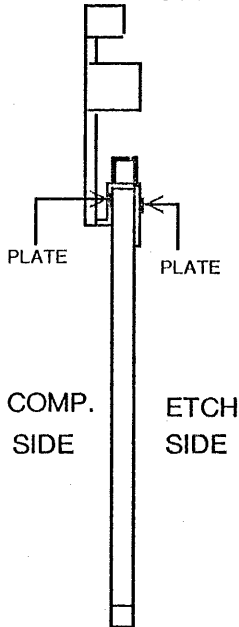


FIG. 2

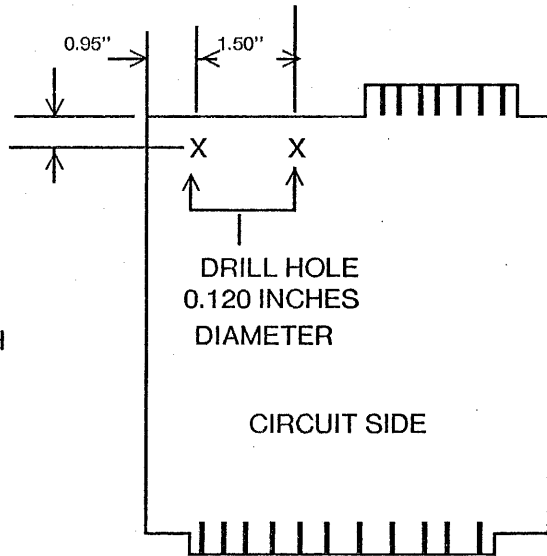


FIG. 3

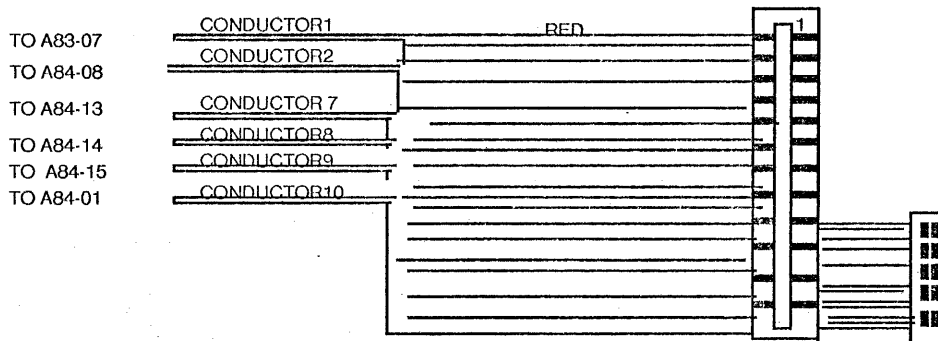


FIG. 4

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Title	ASSY, P.W.	
	3K CRAM	
File	3KCRAM04.SIL	

Xerox Corporation El Segundo, California		XEROX
Dwg. No.	217812	Rev. B
Sheet	4	Of 16

ML	Drawing No. 217812	Rev. B
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MATERIAL LIST

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Dwg. No.	ASSEMBLY, P. W. - 3K CRAM				
	Model No. 3KCRAM05.SIL		Date	Sheet 5 of 16	
	Item No.	Drawing Title	Drawing No.	No. Req.	Remarks
	1	Board, P. W.	217813	1	
	2	Procedure, Test		Ref	
ML	3	Spec, Assembly	216207	Ref	
	4				
	5	Microcircuit 74H00		2	A2, 46
	6	74S00		2	A13, 57
	7	74S04		6	A1, 11, 12, 23, 45, 58
	8	74S08		1	A83
	9	74S10		1	A40
	10	74S03		4	A36, 42, 43, 44
	11	74H20		1	A24
	12	74H21		1	A27
	13	74S30		2	A26, 28
	14	74S32		1	A70
	15	74S38		4	A3, 4, 5, 6
	16	7438		4	A7, 8, 9, 10
	17	74S138		1	A38
	18	74S153		1	A59
	19	74S157		8	A18, 19, 20, 21, 48, 61, 74, 87
	20	74166		2	A72, 85
	21	74S174		5	A22, 29, 34, 35, 39
	22	74S175		7	A25, 41, 47, 60, 71, 73, 86
	23	74S189		1	A84
	24	74298		4	A30, 31, 32, 33
	25	F93422 FAIRCHILD		4	A14, 15, 16, 17
	26	82S126		1	A37
	27	Microcircuit 2147-3 INTEL		32	A49 THRU 56
					A62 THRU 69
					A75 THRU 82
					A88 THRU 95

ML	Drawing No. 217812	Rev. B
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Dwg. No.	ASSEMBLY, P. W. - 3K CRAM				
		Model No. 3KCRAM06.SIL	Date	Sheet 6 of 16	
Item No.	Drawing Title	Drawing No.	No. Req.	Remarks	
28	Socket, 14 pin Augat 514-AG11D		31		
29	Socket, 16 pin Augat 516-AG11D		28		
ML	30	Socket, 18 pin Augat 518-AG11D		32	
	31	Socket, 22 pin Augat 522-AG19D		4	
	32				
	33	Capacitor, 22uf 20% 15V	187720-005	2	C1,C2
	34	Capacitor, .047uf AVX DG0150473M		47	C4 THRU C50
	35	Capacitor, 180pf		1	C3
	36	Resistor, Film, 1K ohm 5% 1/4W		4	R2, R3, R7, R8
	37	Resistor, Film, 2.7K ohm 5%, 1/4W		1	R1
	38	Resistor, Film, 330 ohm 5%, 1/4W		5	R4, R5, R6, R9 ,R10
	39	Resistor, SIP, 330 ohm (CTS 750-61-R330)		6	A96 TRU 101
	40	Stiffener	216242	1	
	41	extractor	216250	2	
	42	rivet	156111-005	2	
	43	ASSY, CABLE 3KCRAM/CONT INTERFACE	218055	1	
	44	PLATE ASSEMBLY	218054-001	1	
	45	PLATE ASSEMBLY	218054-002	1	
	46				
	47				
	48				
	49				
	50				

