

SECTION X

DRAWINGS

SOL-PC SINGLE BOARD TERMINAL COMPUTER™



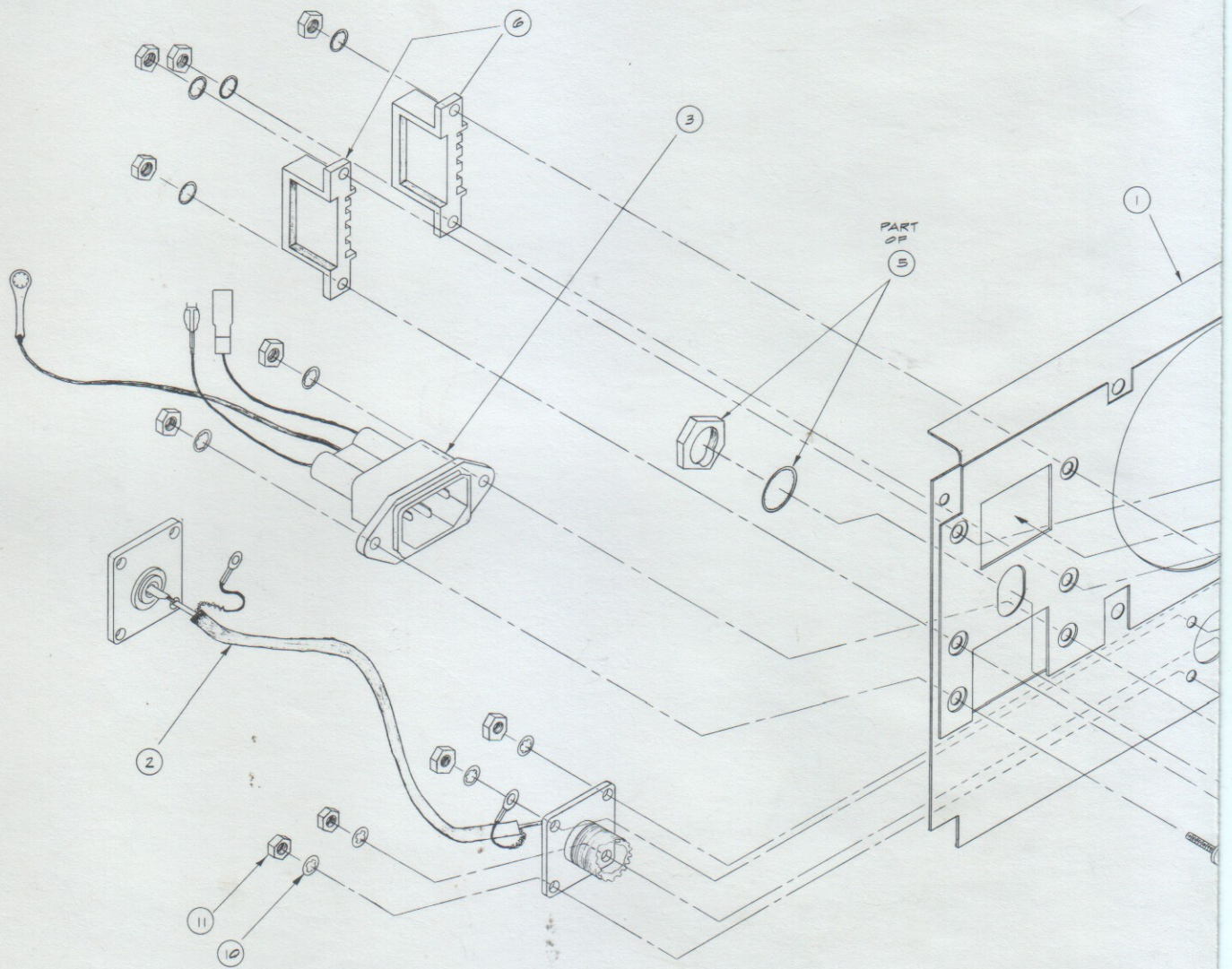
NOTES:

UNLESS

1. ALU

2. ALU

3. ALU

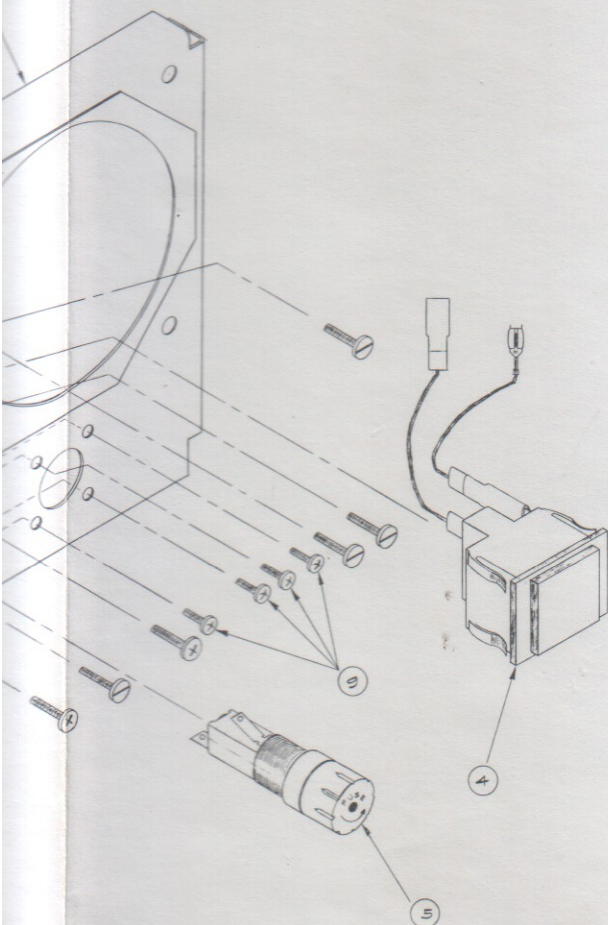


X-1

5:

UNLESS OTHERWISE SPECIFIED:

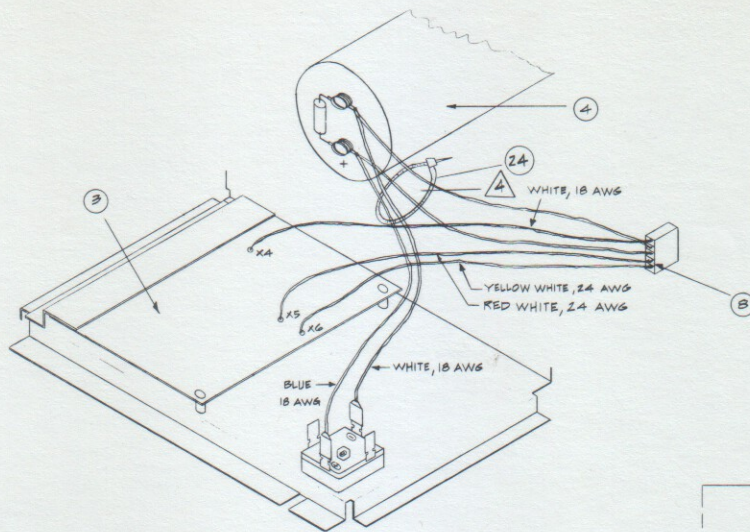
1. ALL SCREWS PART NO. ⑦
2. ALL LOCKWASHERS PART NO. ②
3. ALL NUTS PART NO. ③



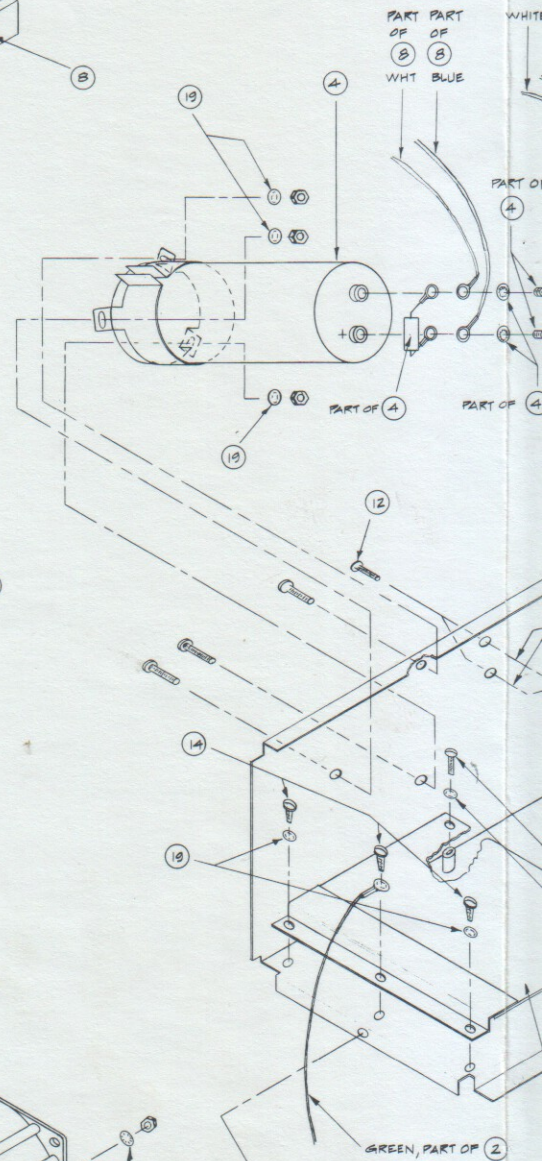
12		LOCKWASHER, INT. TOOTH # 6	6		
11		NUT, HEX, 4-40	4		
10		LOCKWASHER, INT. TOOTH # 4	3		
9		SCREW, MACHINE, 4-40 x 5/16" PAN HEAD	4		
8		NUT, HEX, 6-32	6		
7		SCREW, MACHINE, 6-32 x 1/2" PAN HEAD	6		
6		COMMONING BLOCKS	2		
5		FUSE POST, W/ NUT & LOCKWASHER	1		
4	105022	ASSEMBLY, AC SWITCH	1		
3	105018	ASSEMBLY, AC CONNECTOR	1		
2	105016	ASSEMBLY, VIDEO CABLE	1		
1	105031	SHEET METAL, FAN CLOSURE	1		
REV	PART OR DWG. NO.	PART DESCRIPTION	-01		

ASSEMBLY, FAN CLOSURE

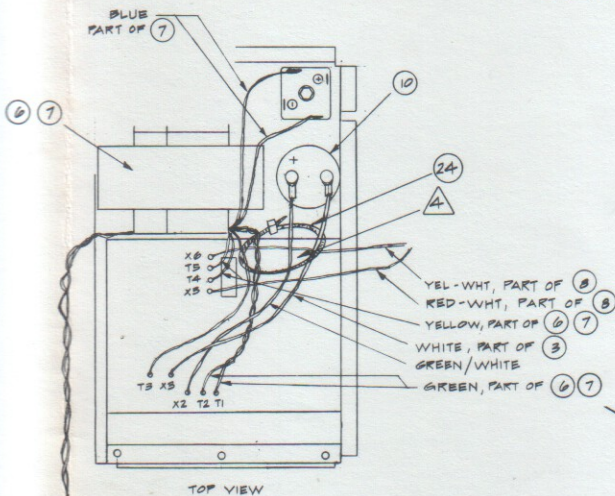
SCALE: —	APPROVED BY:	DRAWN BY LITO
DATE: 01-2-77	R. MARCH	REVISED
PROCESSOR TECHNOLOGY		
DRAWING NUMBER		
105014		



DETAIL B
-02 VERSION ONLY

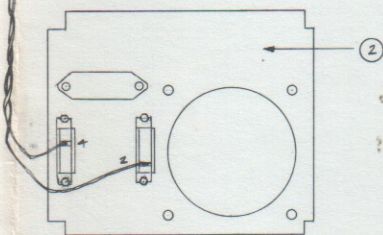


DETAIL C - TRANSFORMER
MOUNTING, REAR VIEW

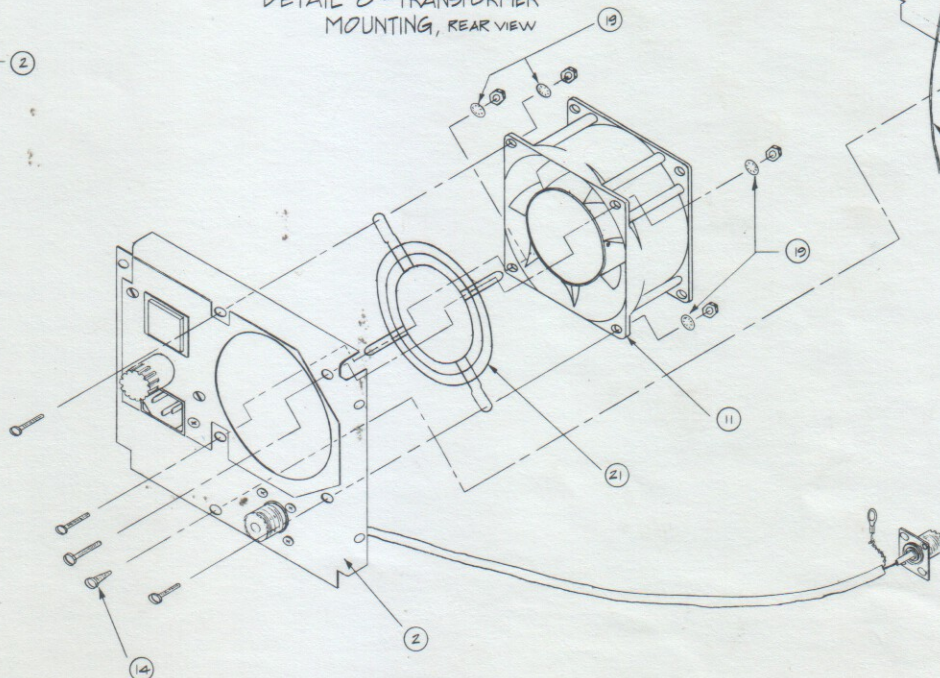


TOP VIEW

BLACK, PART OF 6, 7

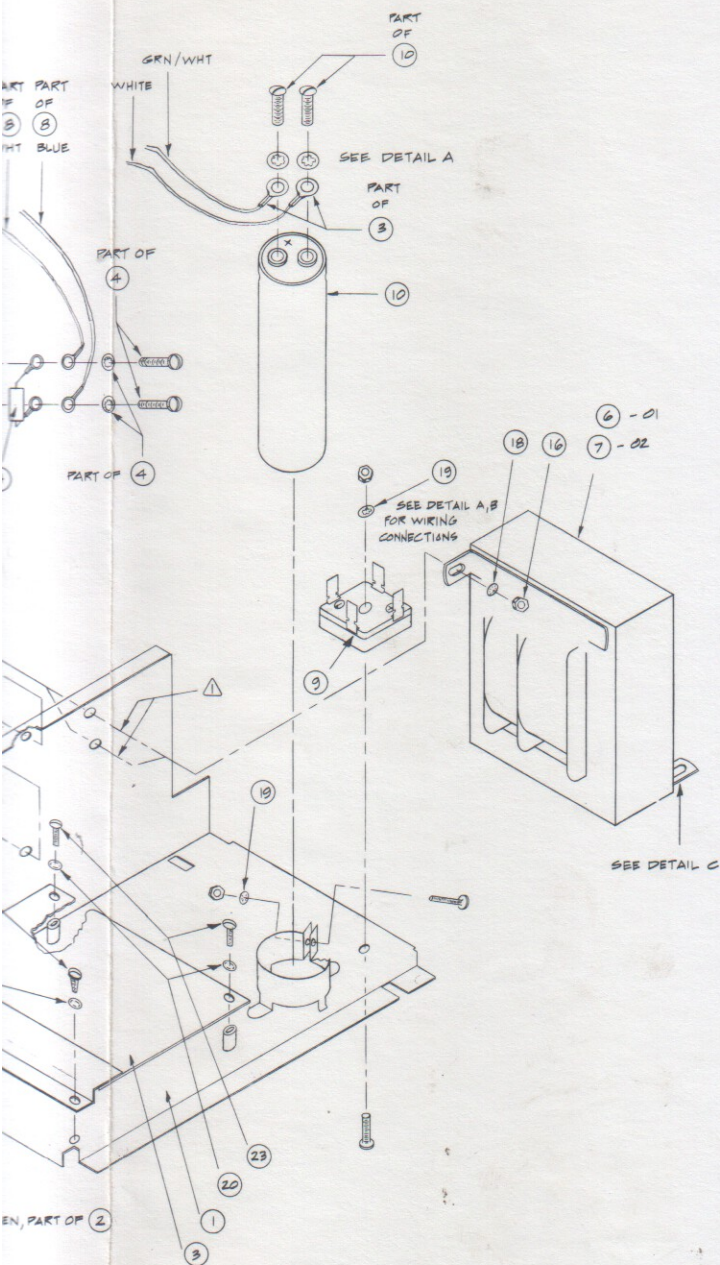


DETAIL A - WIRING



GREEN, PART OF 2

X-2



NOTES:

UNLESS OTHERWISE SPECIFIED

1. ASSEMBLE THROUGH HOLE IN LINE WITH TRANSFORMER MOUNTING.
2. ALL SCREWS ARE PART #13
3. ALL NUTS ARE PART #17
4. WIRES CINCHED WITH (24)

24		TIE, CABLE, PLASTIC	1	2
23		SCREW, 4-40 x 3/16 PAN HEAD	2	2
22	105002	SCHEMATIC, Sol-PWR, Sol-20	1	REF
21	105003	SCHEMATIC, Sol-PWR, Sol-10	REF	1
20		LOCKWASHER, #4 INT. TOOTH	2	2
19		LOCKWASHER, #6 INT. TOOTH	3	3
18		LOCKWASHER, #8 INT. TOOTH	3	3
17		NUT, 6-32 HEX	3	3
16		NUT, 8-32 HEX	2	2
15		SCREW, 4-40 x 5/16 PAN HEAD	4	4
14		SCREW, #6 x 5/16 SELF TAPPING PAN HEAD	3	3
13		SCREW, 6-32 x 1/2 PAN HEAD	3	3
12		SCREW, 8-32 x 1/2 PAN HEAD	0	0
11		FAN	0	0
10		CAPACITOR, ALUM. 18,000 MF, 12V	0	0
9		RECTIFIER BRIDGE	0	0
8	105007	CABLE ASSEMBLY, BPD DC PWR	0	0
7	105028	TRANSFORMER, Sol-20	0	0
6	105026	TRANSFORMER, Sol-10	0	0
5		FINGER GUARD, FAN	0	0
4	105005	CAPACITOR ASSEMBLY, 54000 MF	1	1
3	105008	REGULATOR ASSEMBLY	1	1
2	105014	FAN CLOSURE ASSEMBLY	1	1
1	105004	CHASSIS ASSEMBLY	1	1
REF DES	PART OR DWG. NO.	PART DESCRIPTION	-01	-02

ASSEMBLY, POWER SUPPLY, Sol-PWR

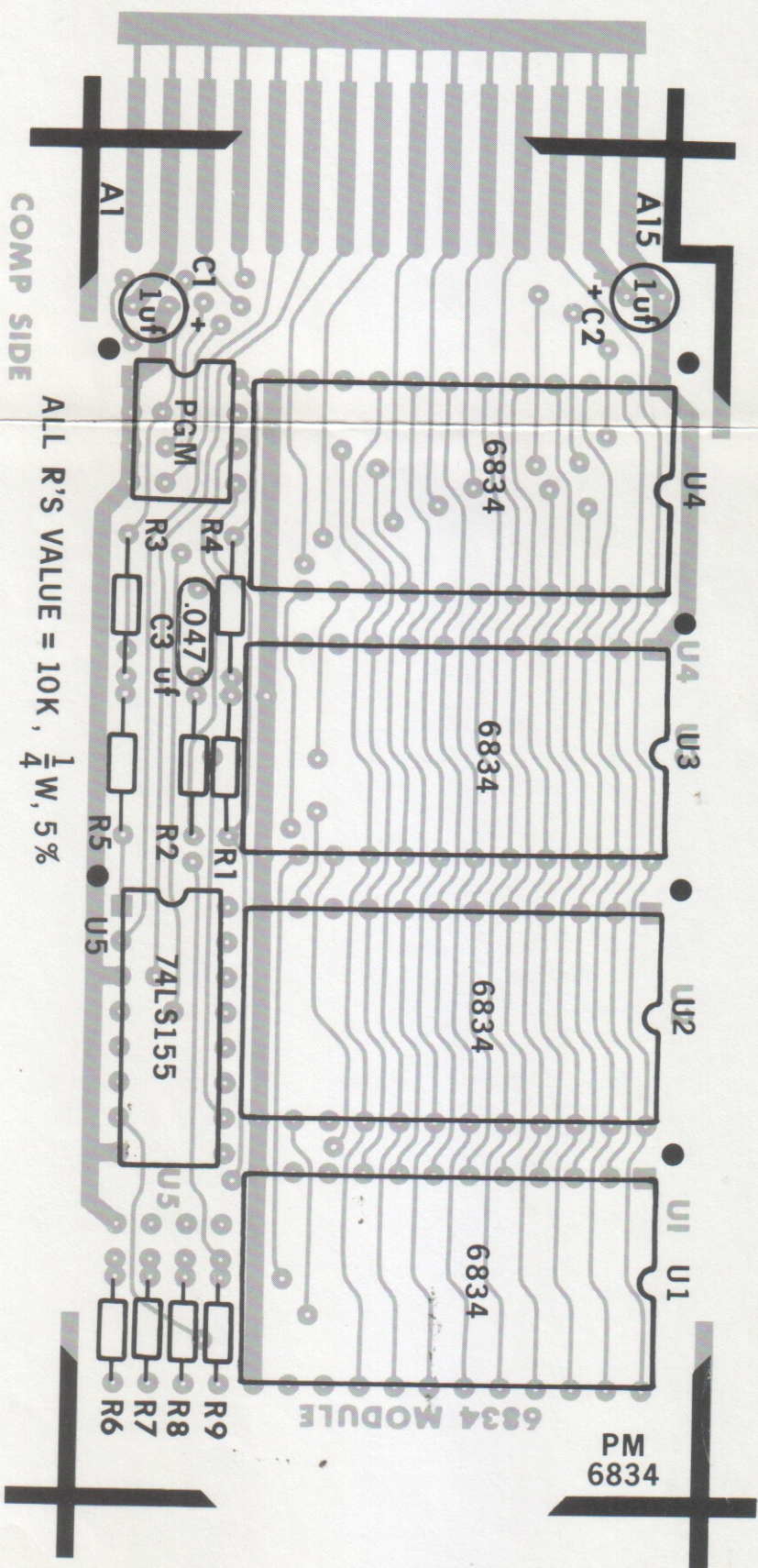
SCALE: _____ APPROVED BY: R. MARSH DRAWN BY: LITO

DATE: 12-29-76 REVISED

PROCESSOR TECHNOLOGY CORP.

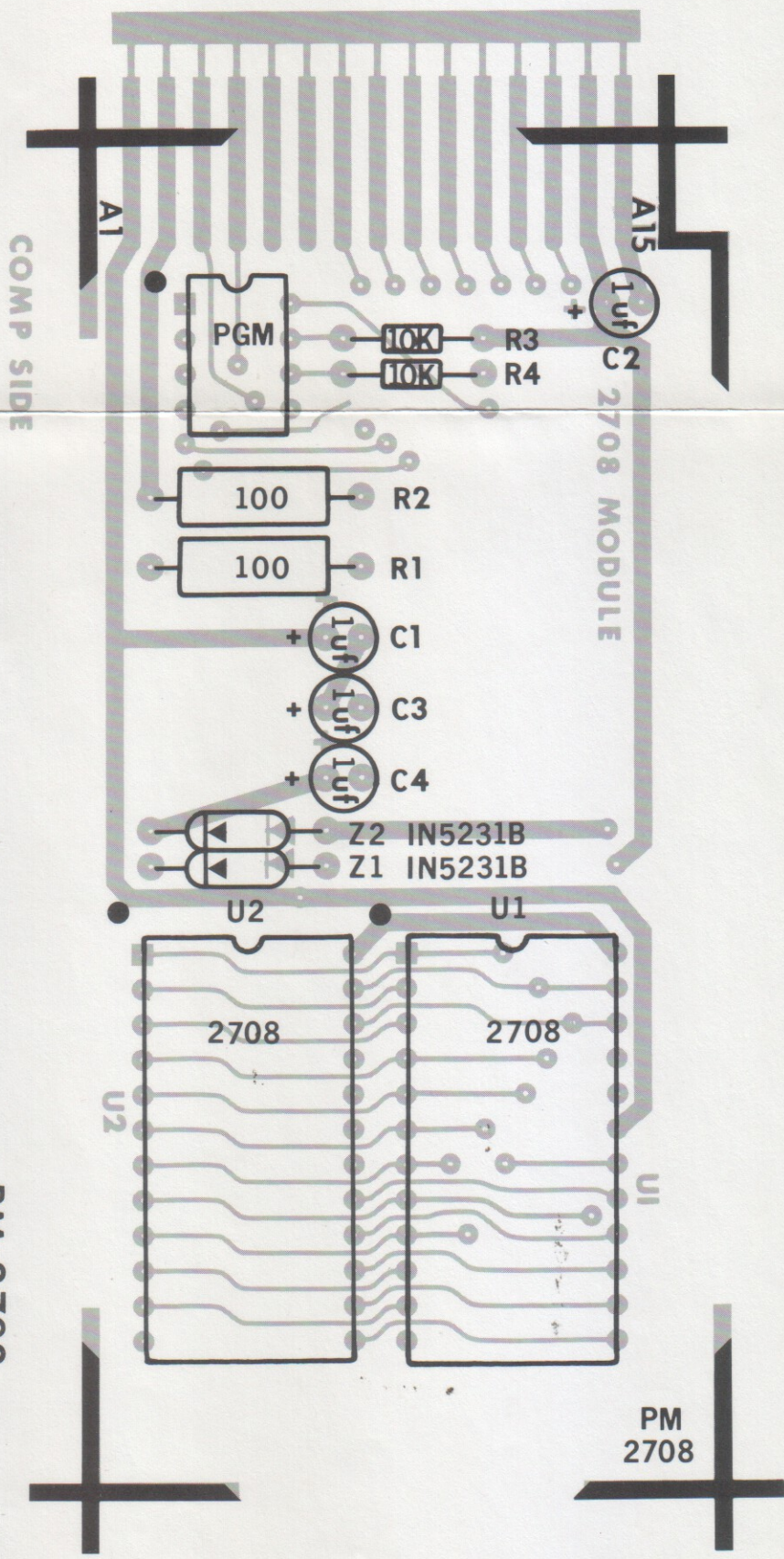
(Sol 10 & Sol 20) 105001-01 & 105001-02

105001

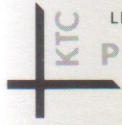
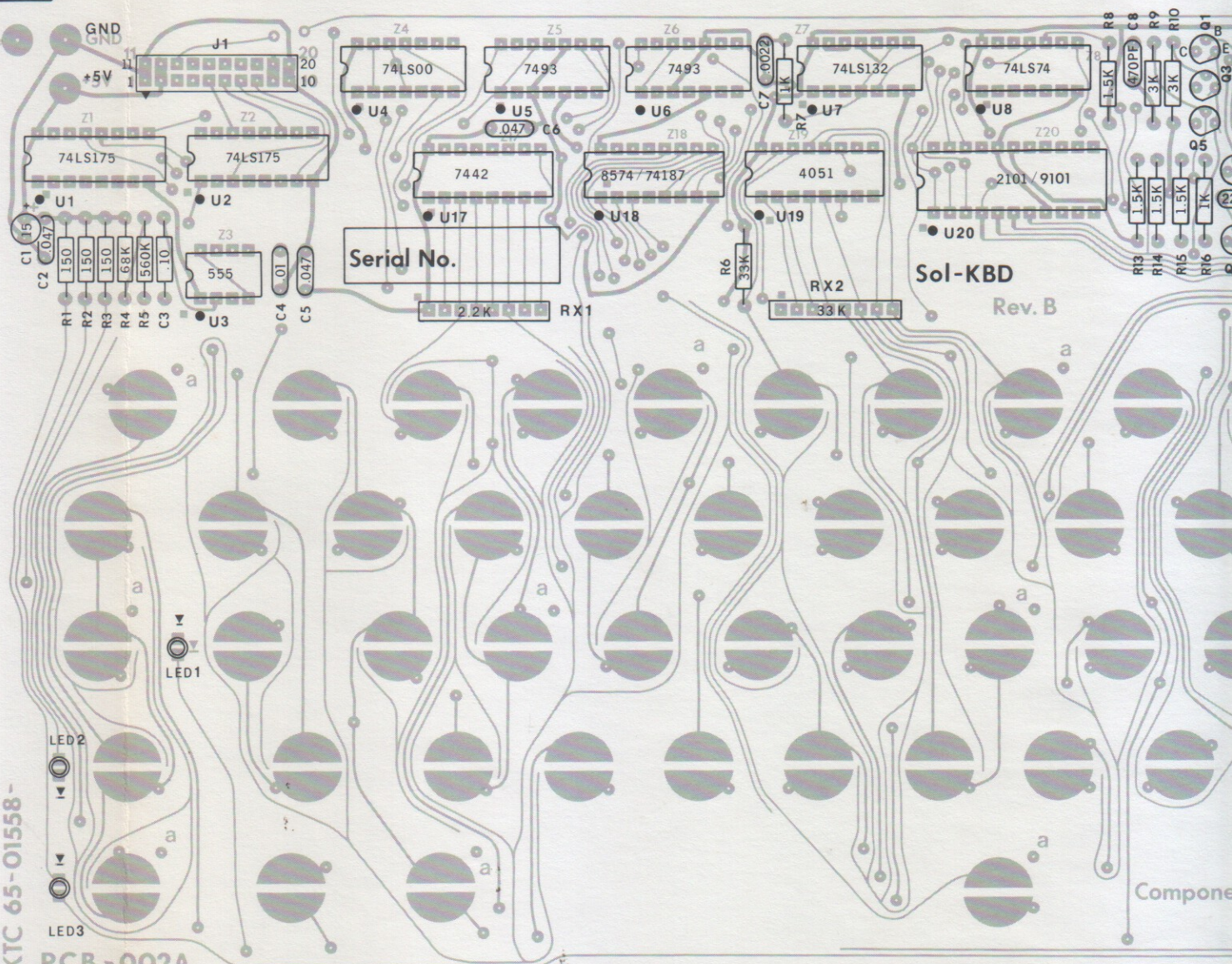


PM 6834

ASSEMBLY



PM 2708
ASSEMBLY



KTC 65-01558-
PCB-002A

15.750

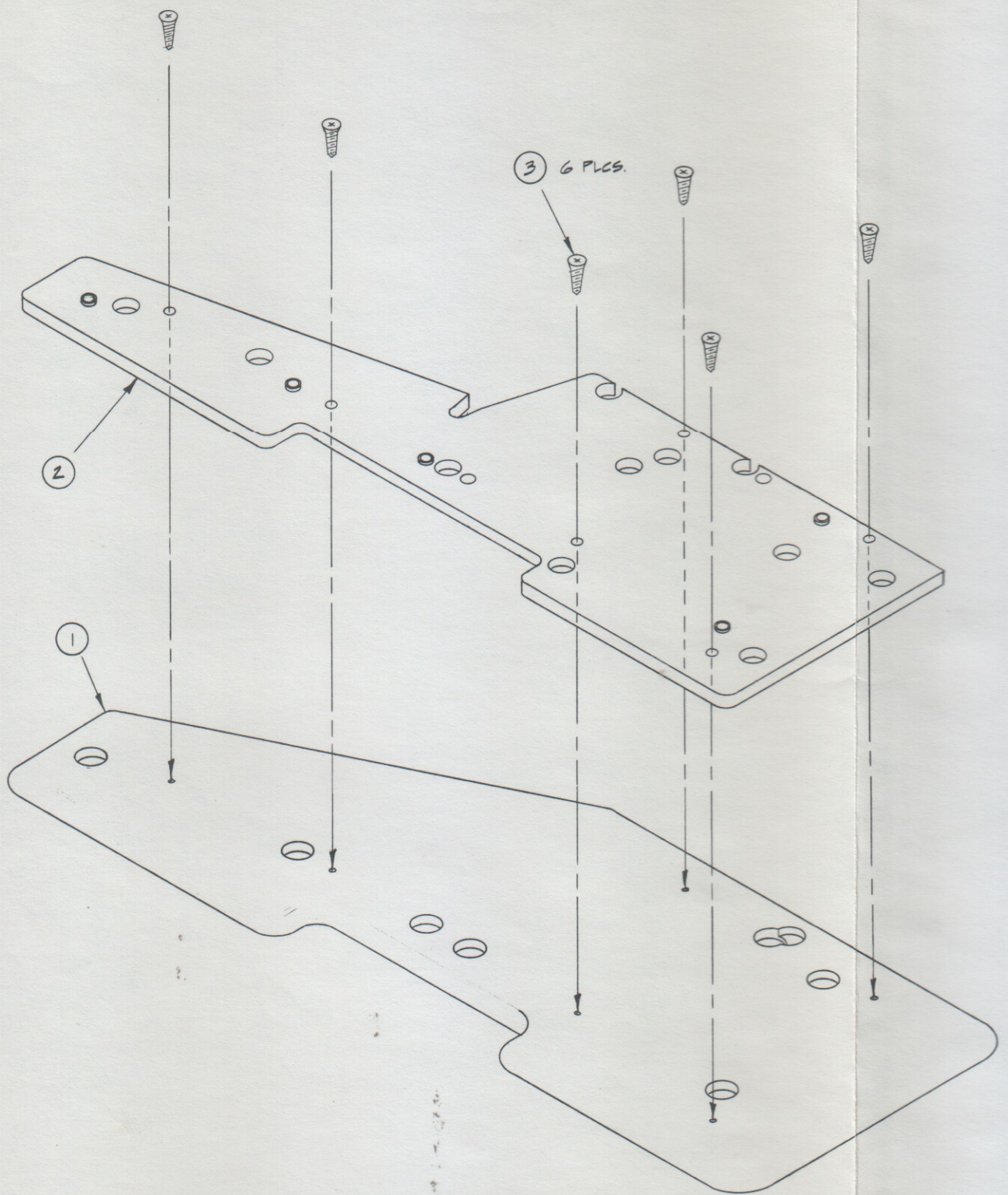
- NOTES:
1. LEDS 1, 2, & 3 ARE MV5752
 2. Q1, Q2 & Q9 ARE 2N4274, Q3 - Q8 ARE 2N3640



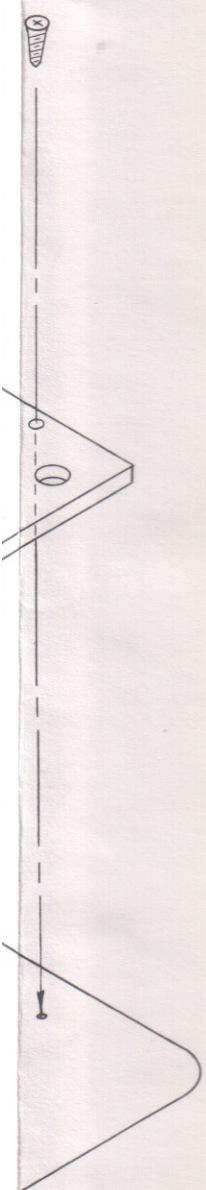
14
2



SOI-KEYBOARD ASSEMBLY



X-8

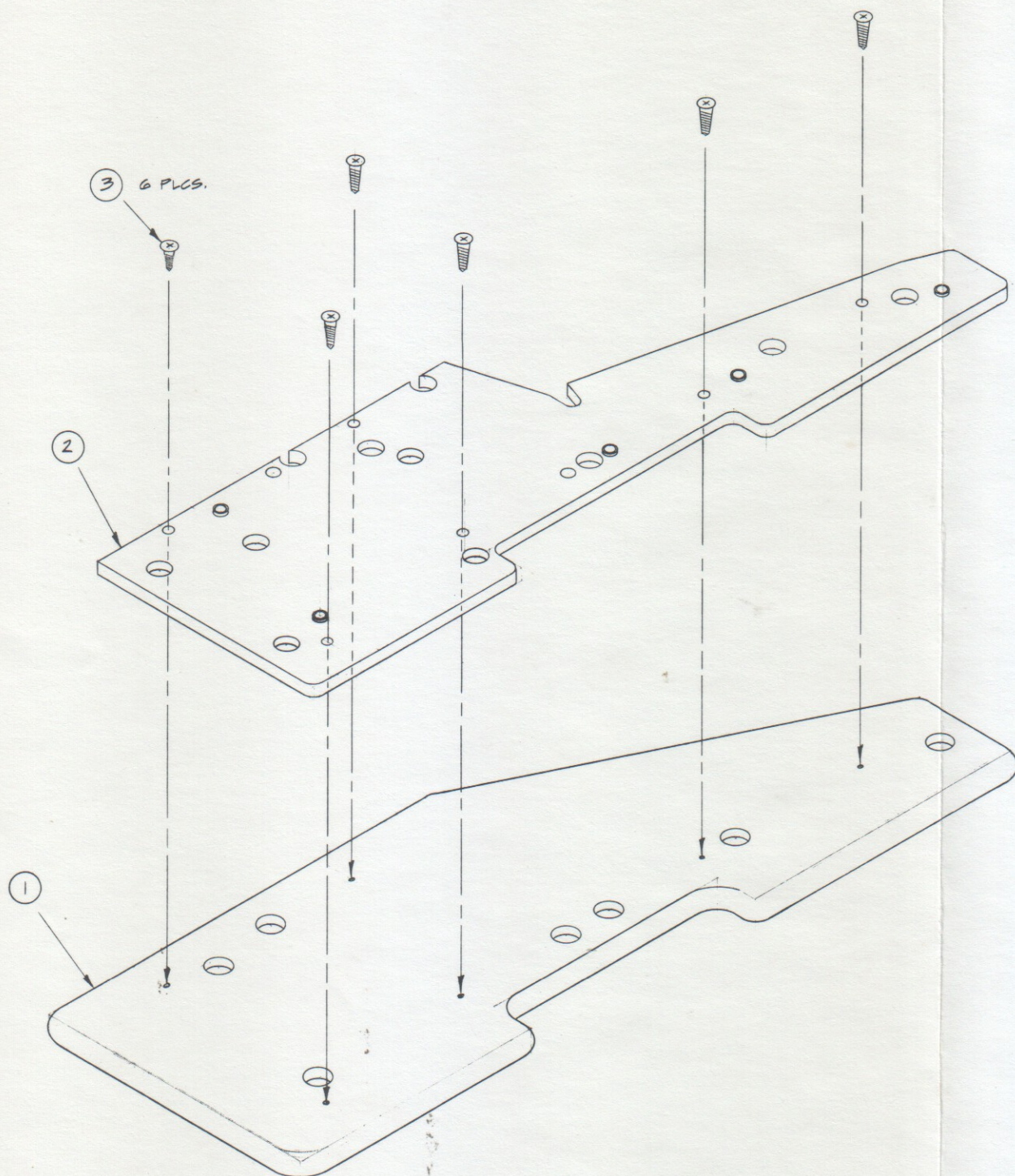


4			
3		SCREW, WOOD, FLAT HEAD #6 x 5/8"	6
2	101011	SPACER, LEFT SIDE PANEL	1
1	101009	SLAB, LEFT SIDE PANEL	1
REF NO.	DWG. NO.	DESCRIPTION	

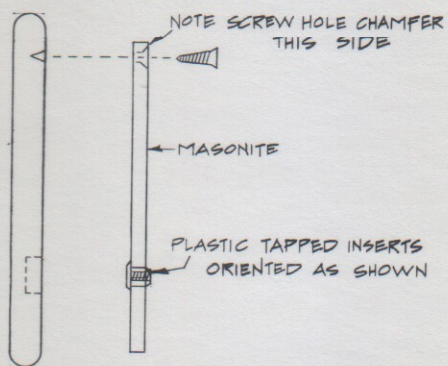
ASSEMBLY, SIDE PANEL, LEFT HAND

REV. A

DRWG. NO.: 101007



X-9



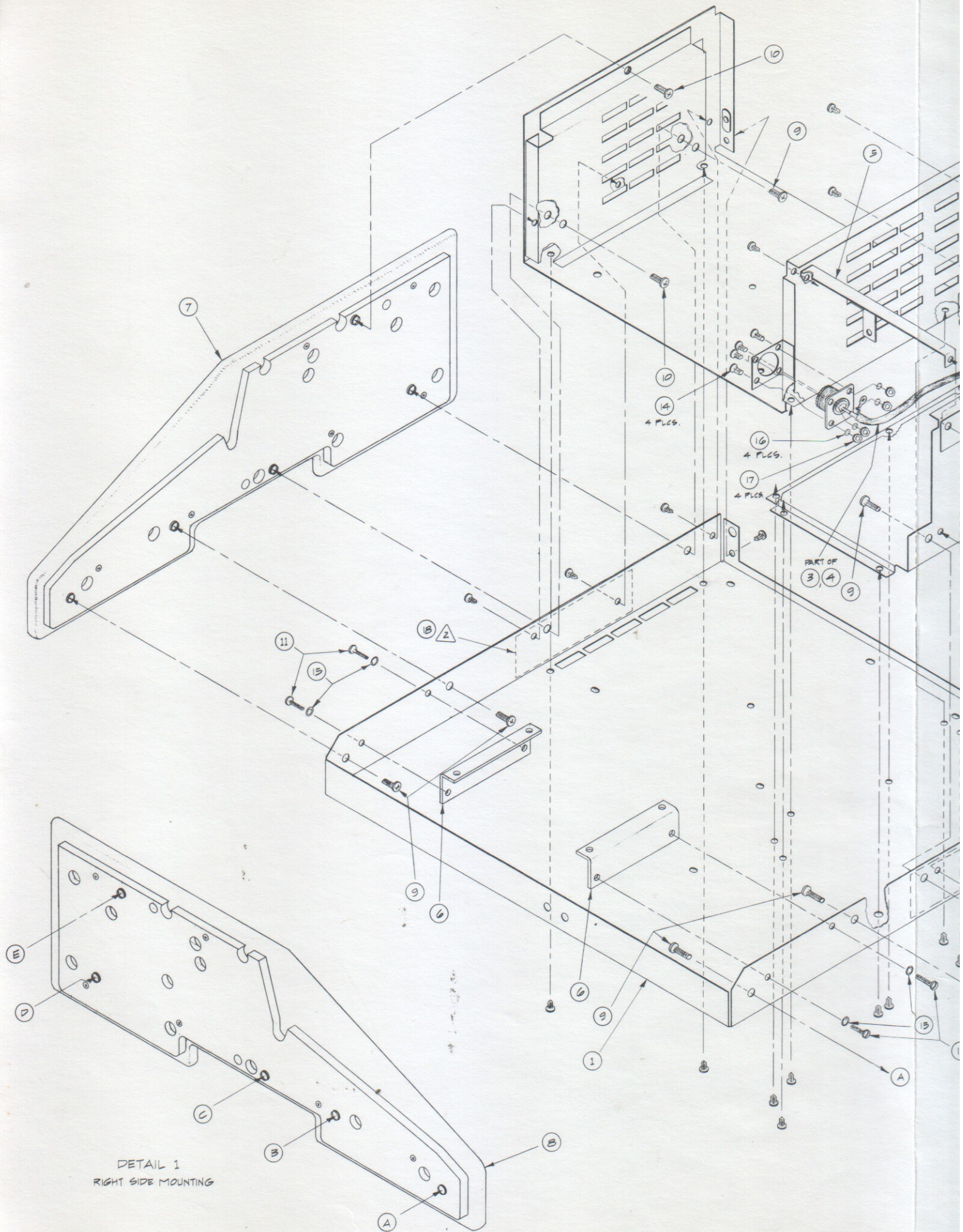
DETAIL - ORIENTATION OF
MASONITE CROSS SECTION

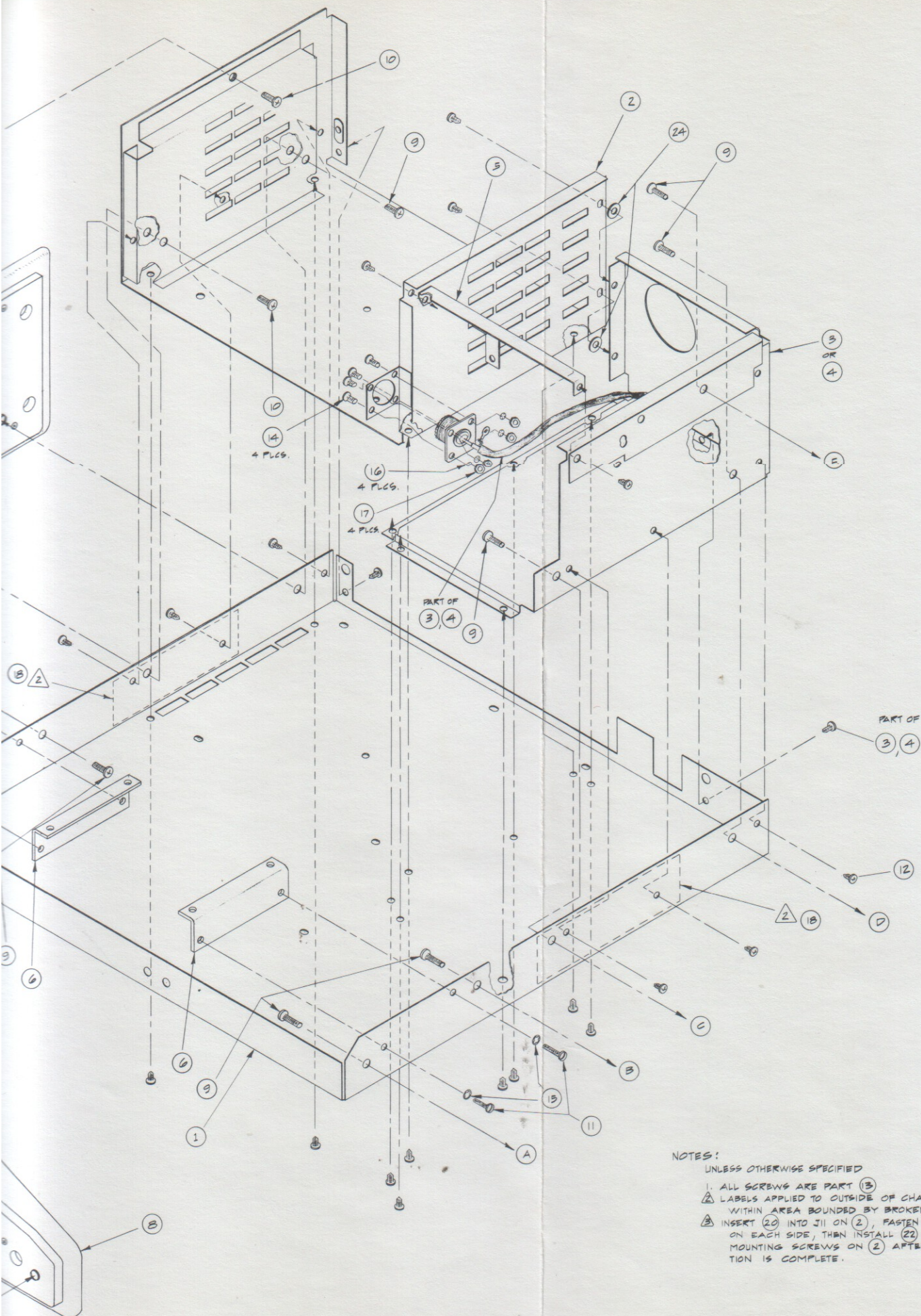
3		SCREW, FLAT HEAD, WOOD, #6 x 5/8"	6
2	101012	SPACER, RIGHT SIDE	1
1	101010	SLAB, RIGHT SIDE	1
REF. DWS.	DWG NO.	DESCRIPTION	

ASSEMBLY, SIDE PANEL, RIGHT HAND

REV A

DRWG. NO.: 101008





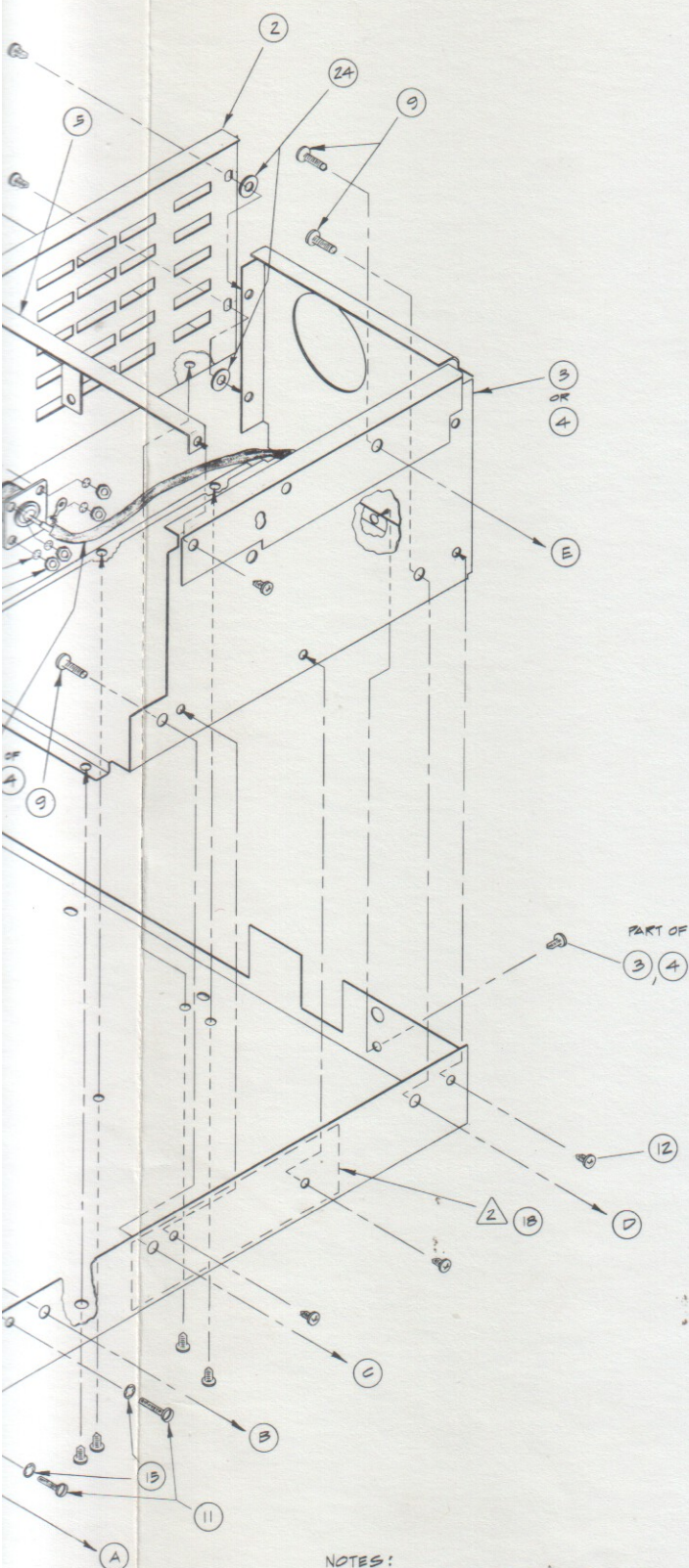
NOTES:

UNLESS OTHERWISE SPECIFIED

1. ALL SCREWS ARE PART (13)
2. LABELS APPLIED TO OUTSIDE OF CHASSIS WITHIN AREA BOUNDED BY BROKEN LINE
3. INSERT (20) INTO J11 ON (2), FASTEN TO (2) ON EACH SIDE, THEN INSTALL (22) AND (23) TIGHTEN MOUNTING SCREWS ON (2) AFTER INSTALLATION IS COMPLETE.

27	
26	1010
25	1020
24	
23	
22	1010
21	1010
20	1030
19	
18	
17	
16	
15	
14	
13	
12	
11	
10	
9	
8	1010
7	1010
6	1010
5	1010
4	1030
3	1030
2	1010
1	1010
REF. DES.	PART C

X-10



NOTES:

UNLESS OTHERWISE SPECIFIED:

1. ALL SCREWS ARE PART (3)
2. LABELS APPLIED TO OUTSIDE OF CHASSIS WITHIN AREA BOUNDED BY BROKEN LINE
3. INSERT (20) INTO J11 ON (2), FASTEN TO (21) ON EACH SIDE, THEN INSTALL (22) AND (23). TIGHTEN MOUNTING SCREWS ON (2) AFTER INSTALLATION IS COMPLETE.

27		SCREW, MACHINE, 4-40 x 5/16", PAN HEAD	2	2
26	101021	GUSSET, BACKPLANE, LEFT-HAND	0	1
25	102000	SOL PC CIRCUIT CARD	1	1
24		WASHER, FLAT, 1/2" O.D., 3/16" I.D., 1/16" THK	2	2
23		CARD GUIDE	-	10
22	101017	GUSSET, BACKPLANE, RIGHT HAND	-	1
21	101016	BRACKET, BACKPLANE, RIGHT ANGLE	-	2
20	103000	BACK PLANE BOARD ASSEMBLY	-	1
19		SCREW, MACHINE, 4-40 x 5/8", PAN HEAD	-	6
18		LABEL, FINGER WELL, BLACK	2	2
17		NUT, #4-40, HEX	4	4
16		LOCKWASHER, #4, INTERNAL TOOTH	3	3
15		LOCKWASHER, #6, INTERNAL TOOTH	4	4
14		SCREW, MACHINE, 4-40 x 5/16", PAN HEAD	10	16
13		SCREW, SHEET METAL, #6 x 1/4", PAN HEAD	19	31
12		SCREW, SHEET METAL, #6 x 5/16", PAN HEAD	1	1
11		SCREW, MACHINE, 6-32 x 1/2", PAN HEAD	4	4
10		" " " " 8-32 x 1" " "	2	2
9		SCREW, MACHINE, 8-32 x 1/2", PAN HEAD	8	8
8	101008	SIDE ASSEMBLY, RIGHT-HAND	1	1
7	101007	SIDE ASSEMBLY, LEFT-HAND	1	1
6	101006	BRACKET, KEYBOARD SUPPORT	2	2
5	101005	BRACKET, CONNECTING	1	1
4	103001-02	POWER SUPPLY, Sol-20	-	1
3	103001-01	POWER SUPPLY, Sol-10	1	-
2	101004	EXPANSION SUBCHASSIS	1	1
1	101003	MAIN CHASSIS	1	1

REF DES	PART OR DWG. NO.	PART DESCRIPTION	-10	-20
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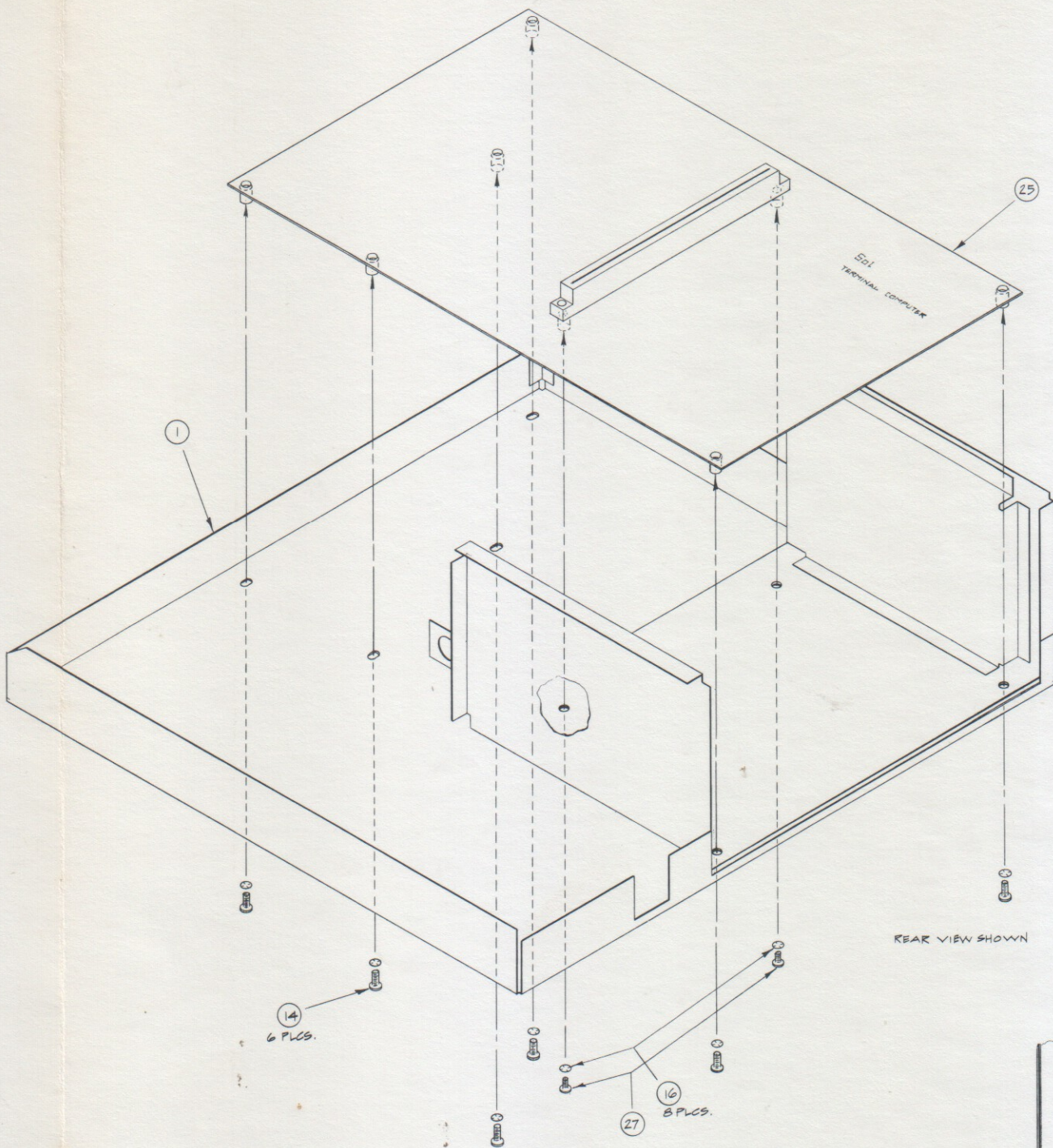
ASSEMBLY, SOL

SCALE: _____ APPROVED BY: R. MARSH DRAWN BY: LITO

DATE: 01-17-77 REVISED

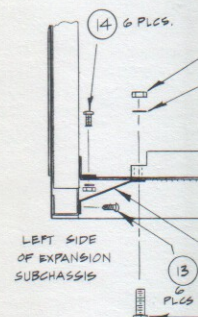
PROCESSOR TECHNOLOGY CORP.

DRAWING NUMBER
101000

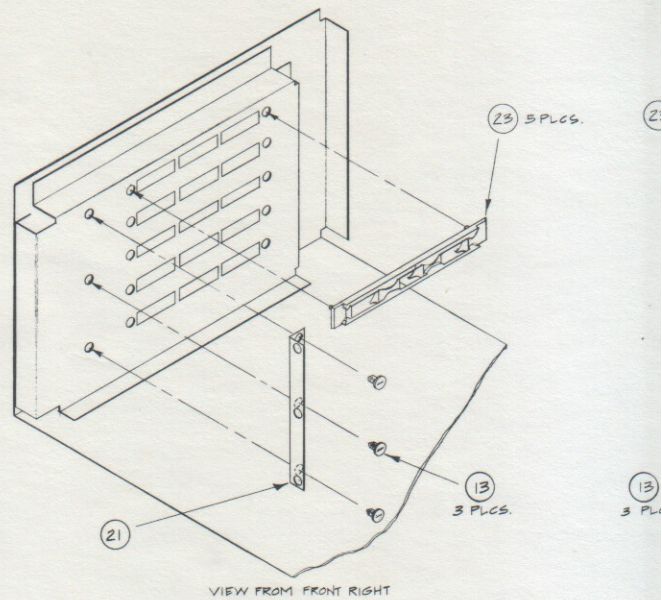
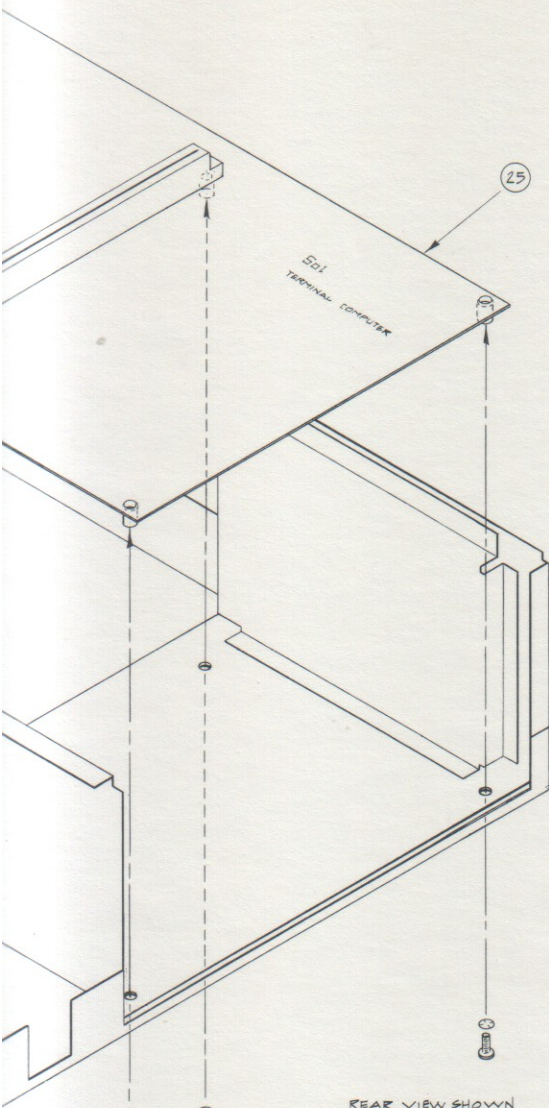


REAR VIEW SHOWN

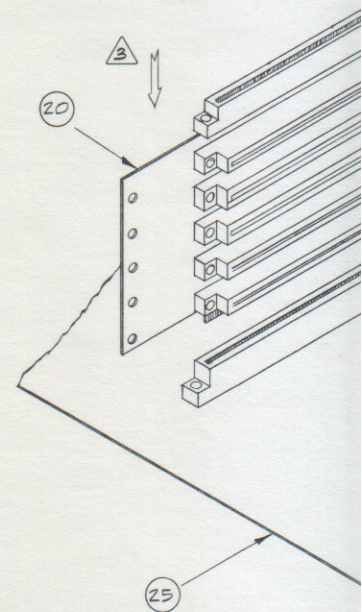
DETAIL - Sol PC INSTALLATION



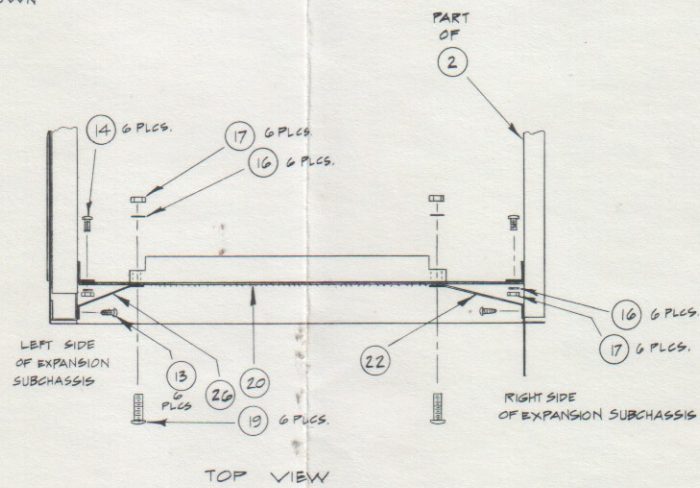
DETAIL -



DETAIL - LEFT SIDE EXPANSION SUBCHASSIS
BRACKET AND CARD GUIDE MOUNTING.
(SOL-20 ONLY)



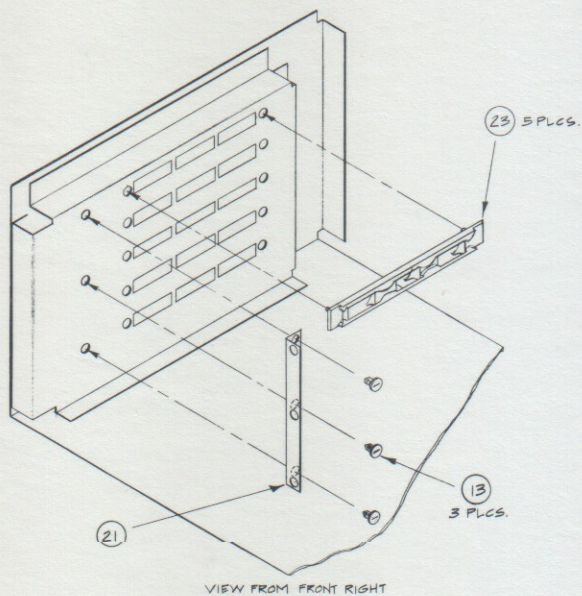
DETAIL - BACKPL.



DETAIL - MOUNTING OF BACKPLANE BOARD
(S01-20 ONLY)

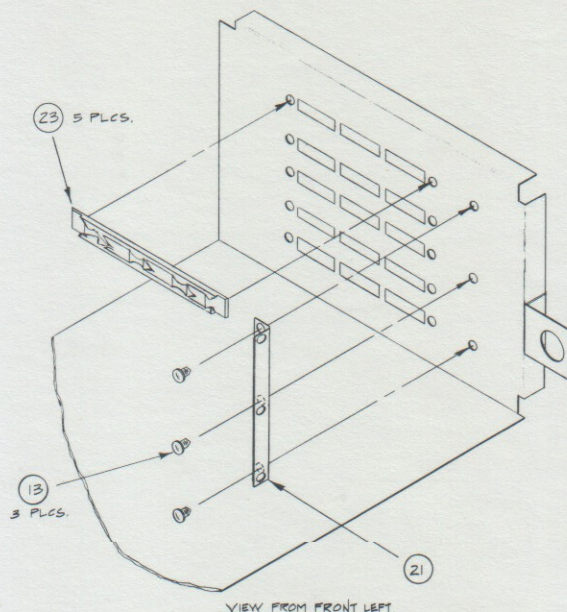


X-11



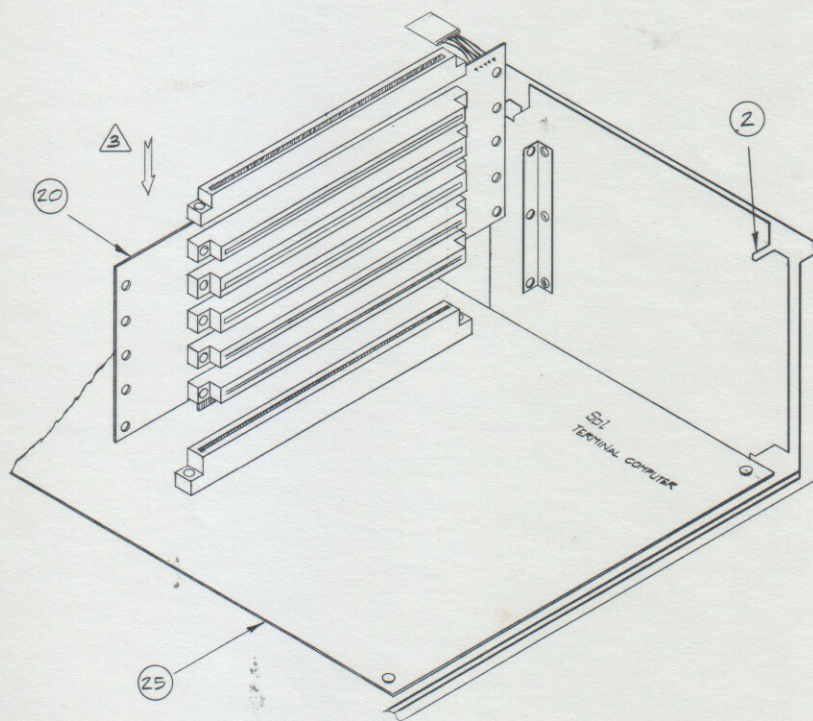
VIEW FROM FRONT RIGHT

DETAIL - LEFT SIDE EXPANSION SUBCHASSIS
BRACKET AND CARD GUIDE MOUNTING.
(S01-20 ONLY)

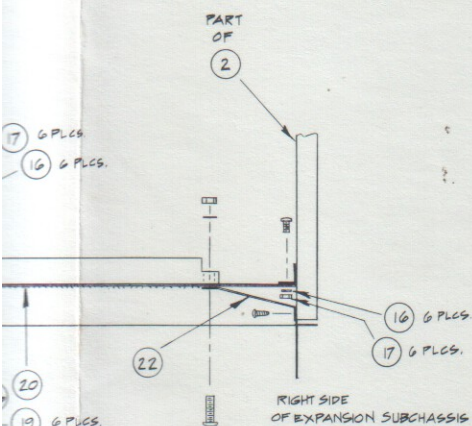


VIEW FROM FRONT LEFT

DETAIL - RIGHT SIDE EXPANSION SUBCHASSIS
BRACKET AND CARD GUIDE MOUNTING.
(S01-20 ONLY)

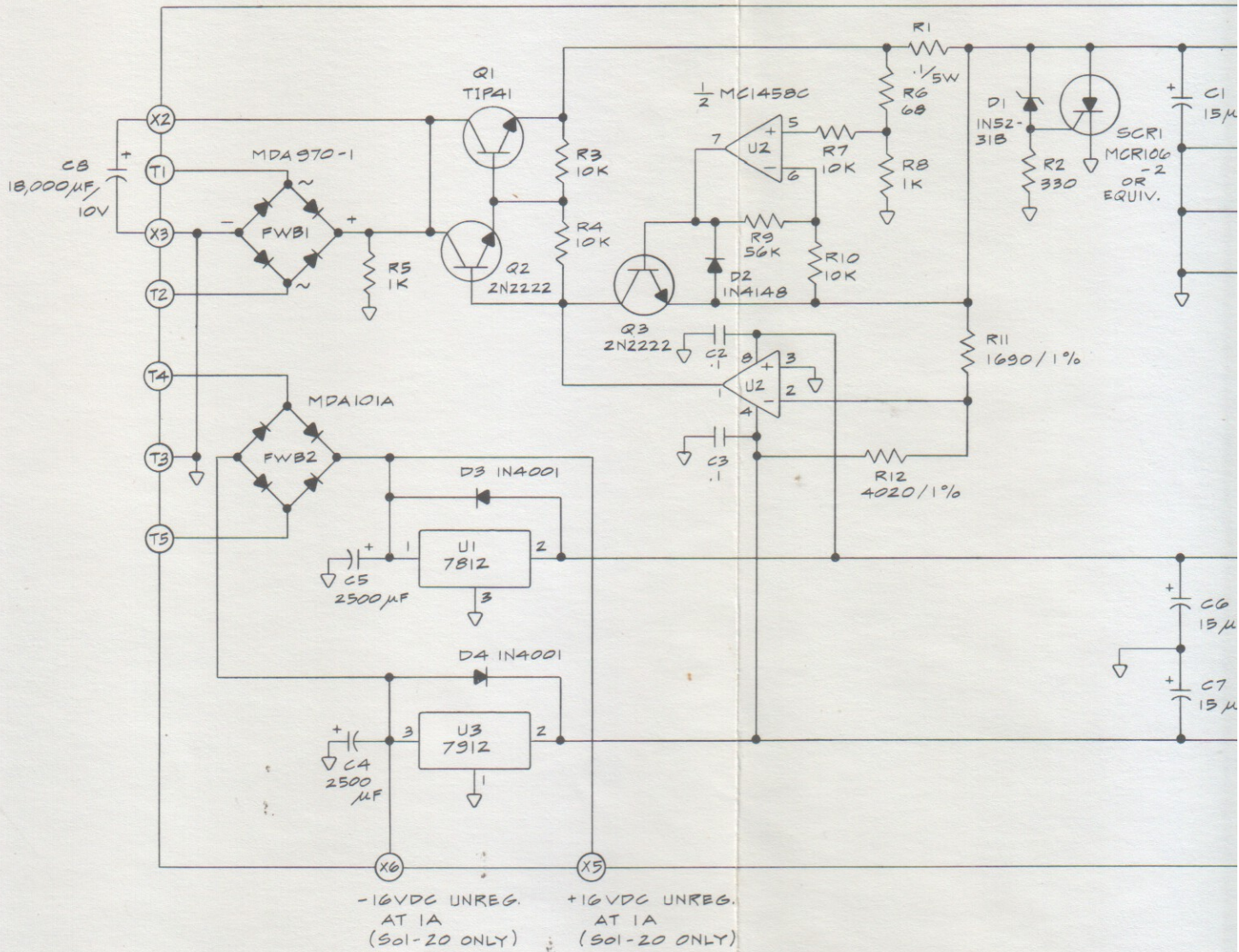


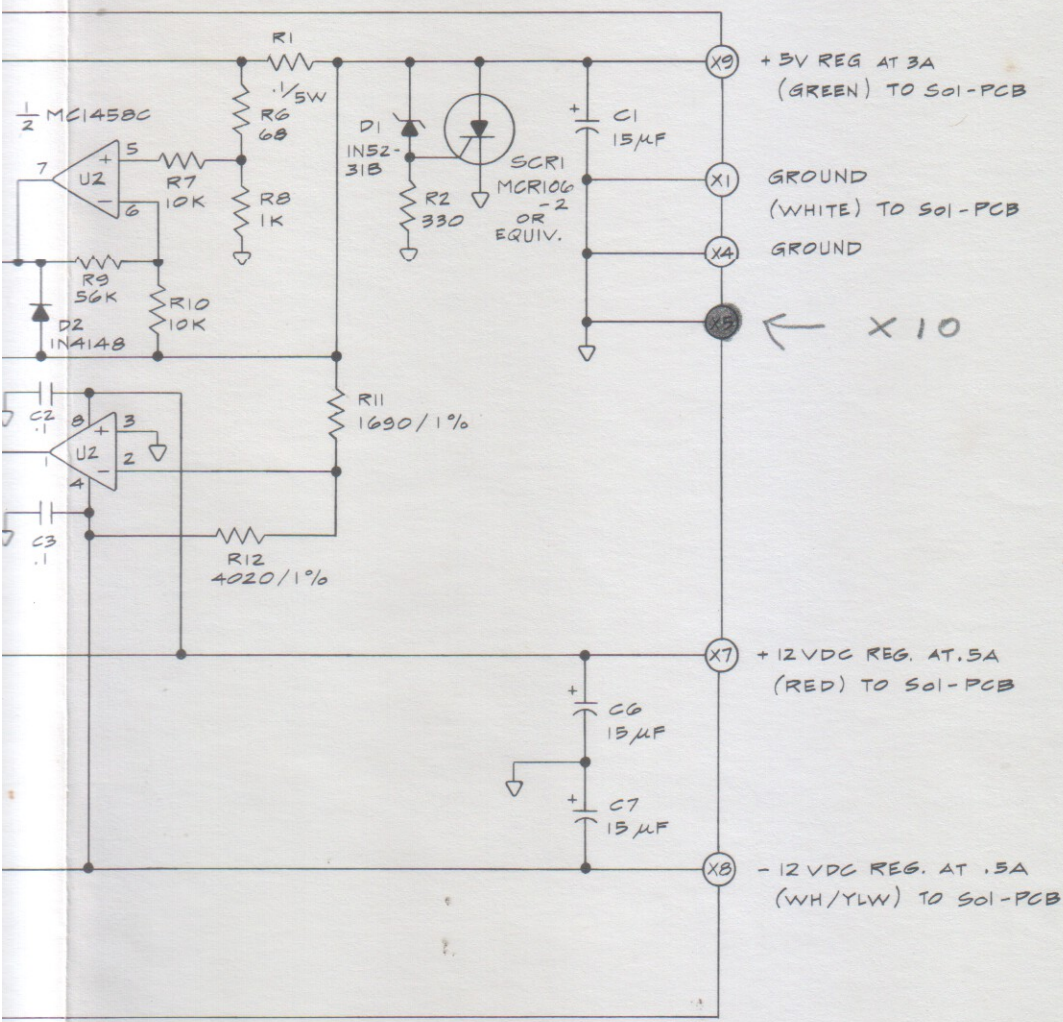
DETAIL - BACKPLANE BOARD INSERTION INTO J11 OF S01 PC BOARD
(S01-20 ONLY)



RIGHT SIDE OF EXPANSION SUBCHASSIS
MOUNTING OF BACKPLANE BOARD
(S01-20 ONLY)

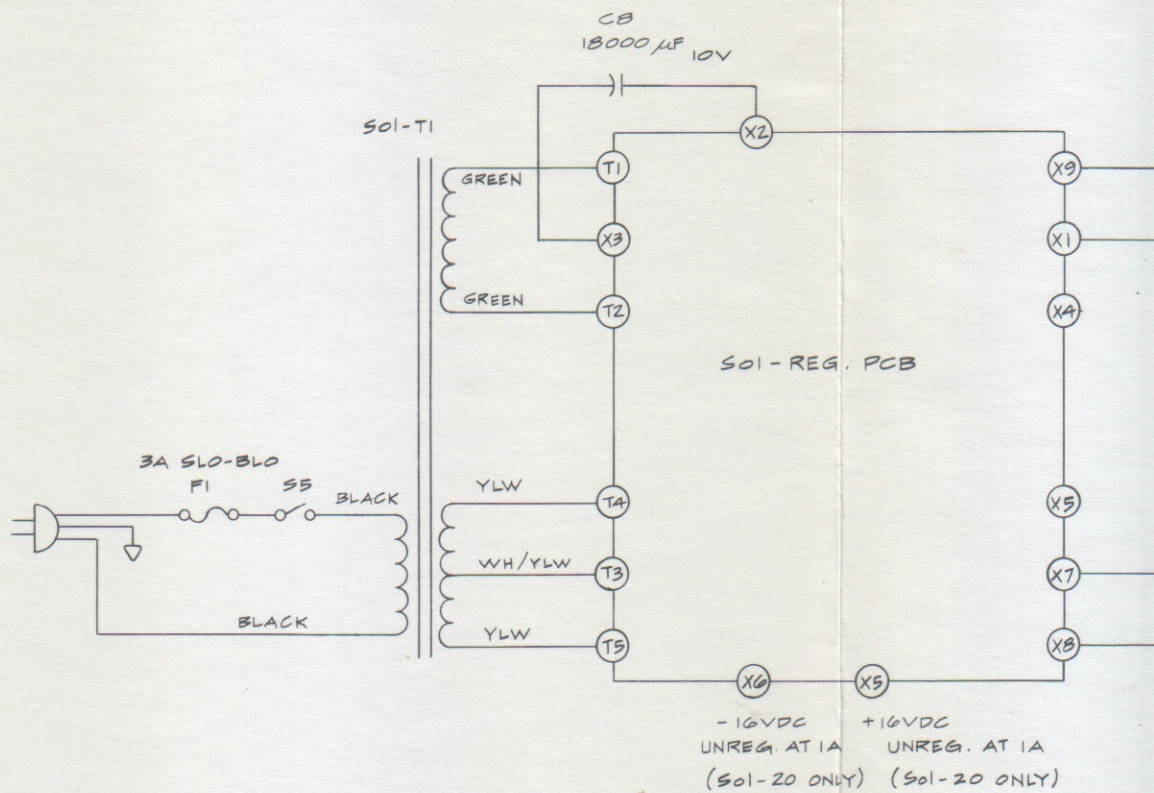
ASSEMBLY, S01		
SCALE: —	APPROVED BY: R. MARSH	DRAWN BY LITO
DATE: 01-20-77	REVISED	
PROCESSOR TECHNOLOGY CORP.		
REV. A	SHEET 2	DRAWING NUMBER 101000



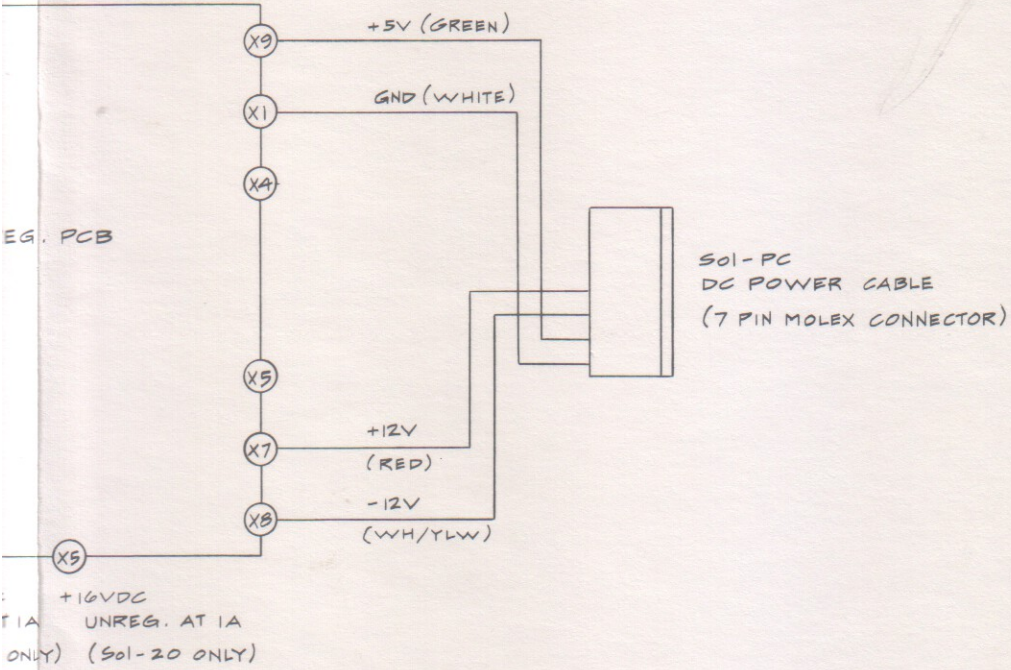


REG.
(ONLY)

SCHEMATIC, SO1-REGULATOR PCB		
SCALE: ———	APPROVED BY:	DRAWN BY: LITO
DATE: 11-12-76	R. MARSH	
PROCESSOR TECHNOLOGY CORP.		



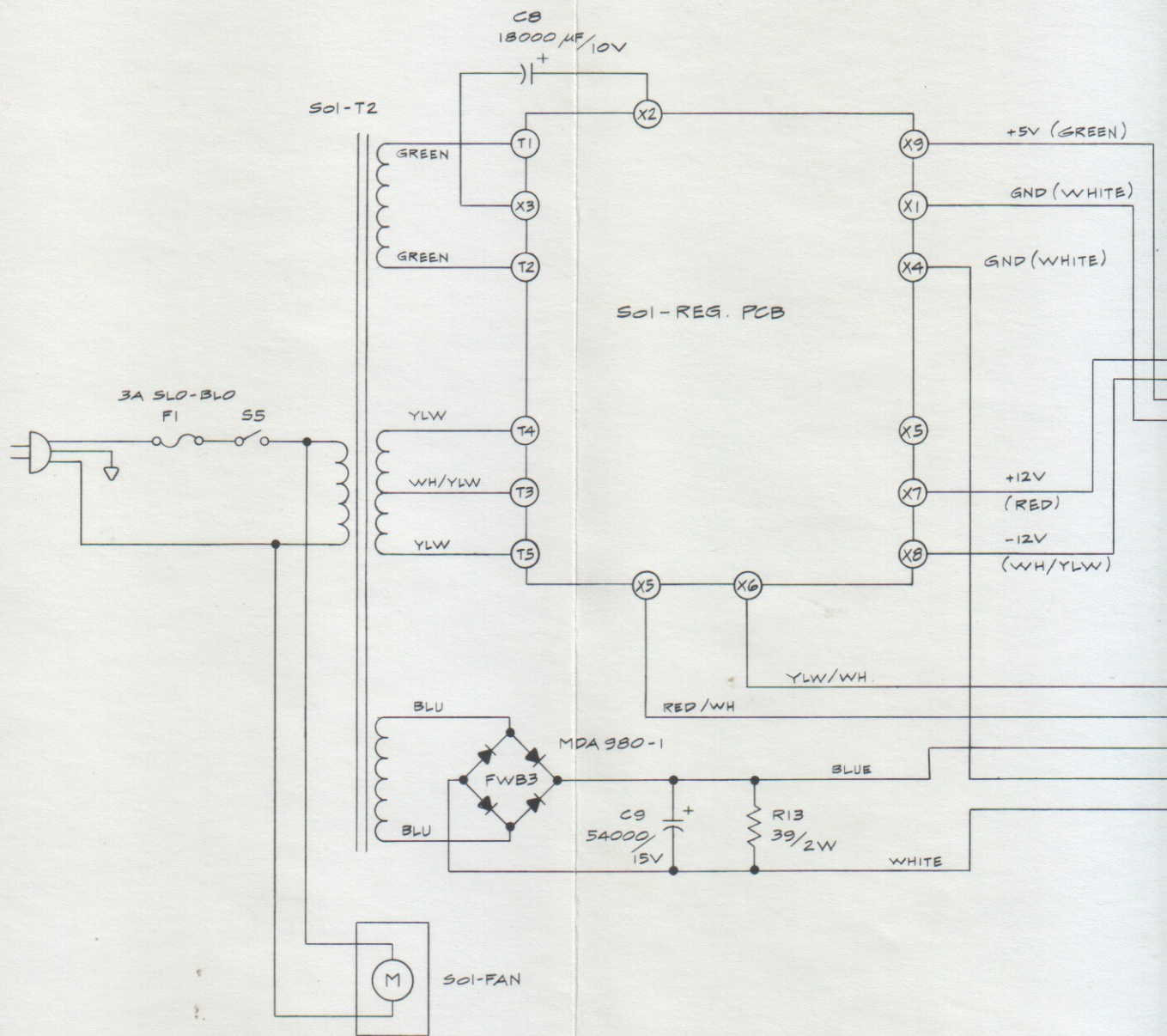
X-13



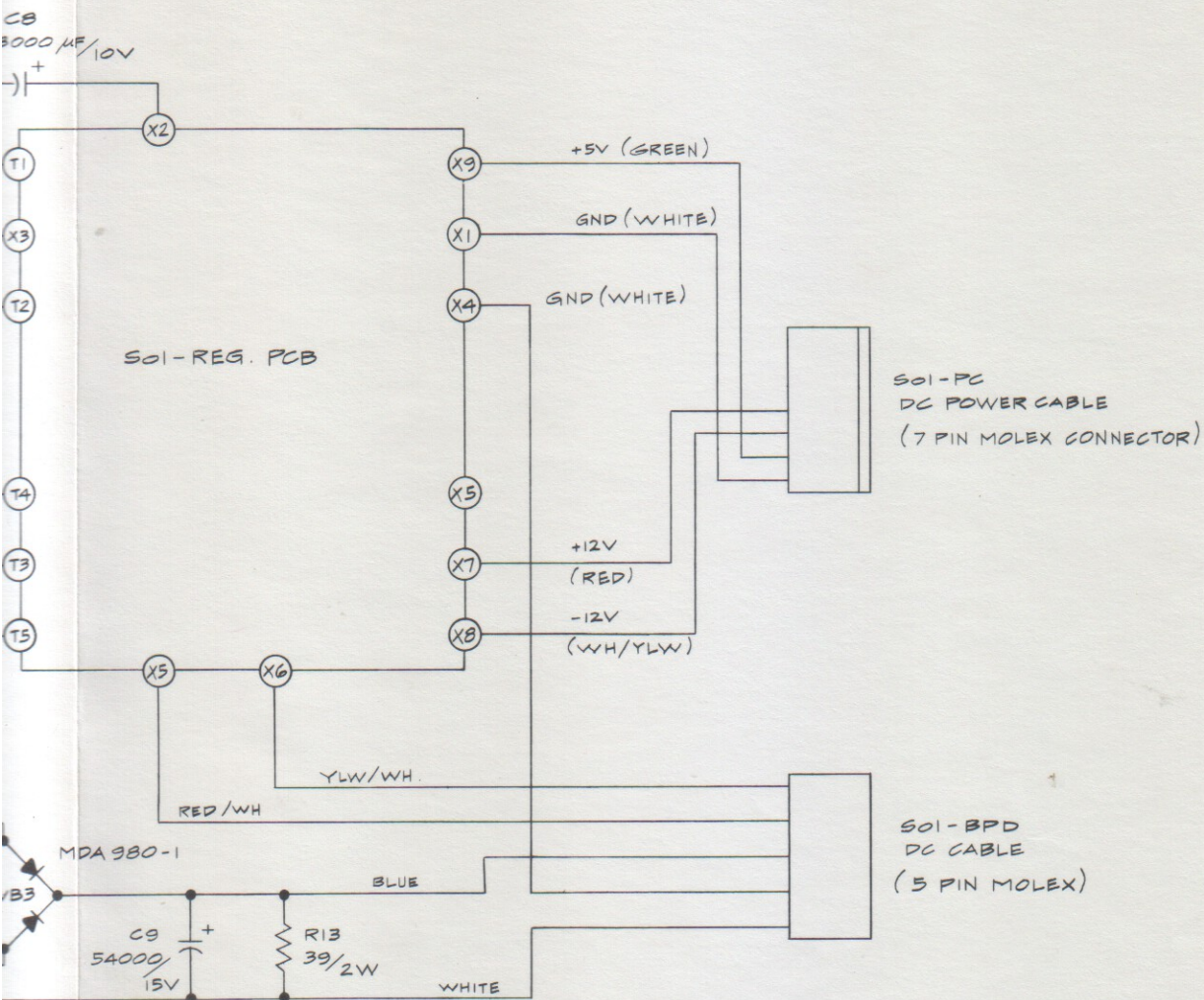
SCHEMATIC, S01-10 POWER SUPPLY

SCALE: ———	APPROVED BY:	DRAWN BY: LITO
DATE: 11-12-76	R. MARSH	

PROCESSOR TECHNOLOGY CORP.



X-14

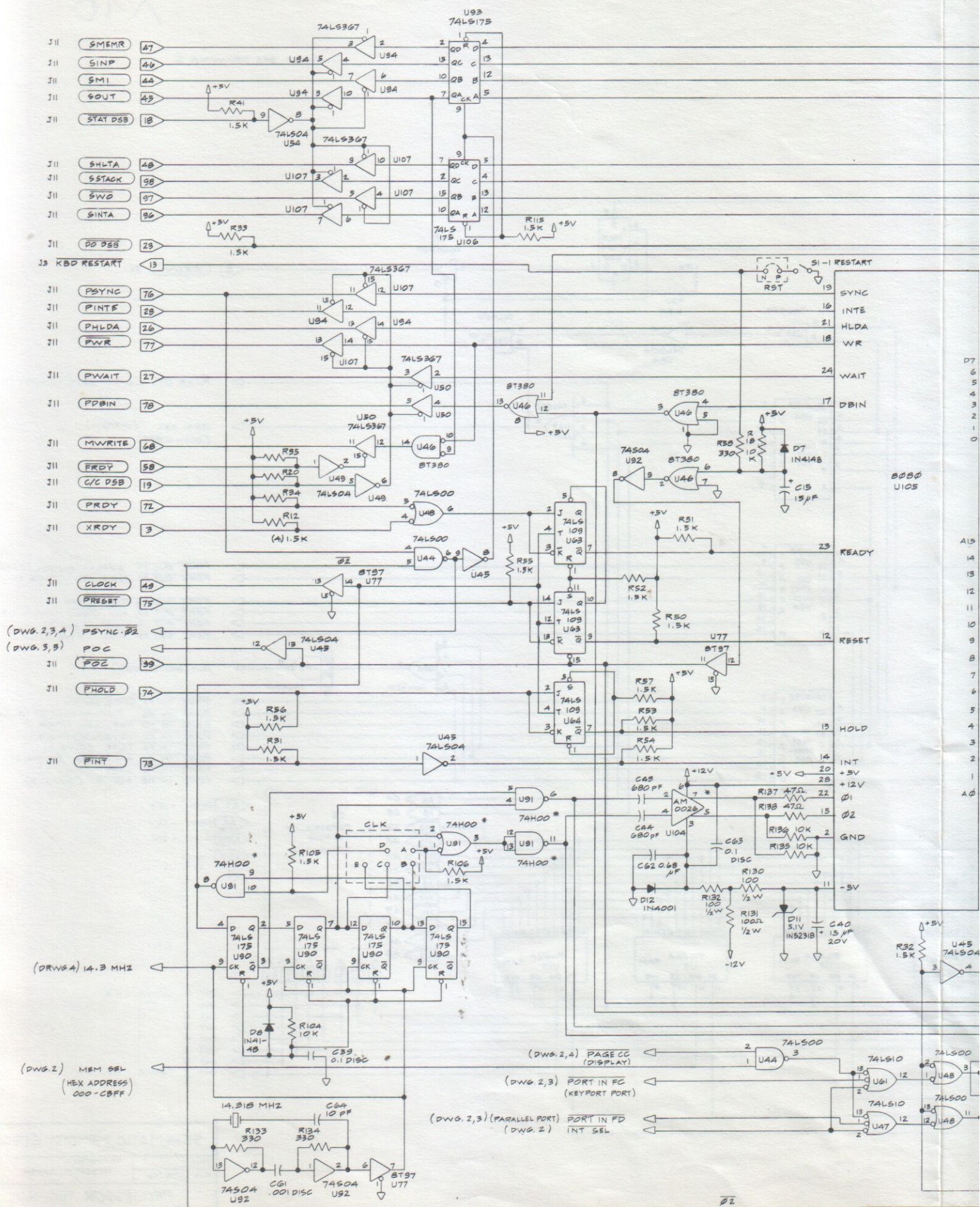


SCHEMATIC, SOI-20 POWER SUPPLY

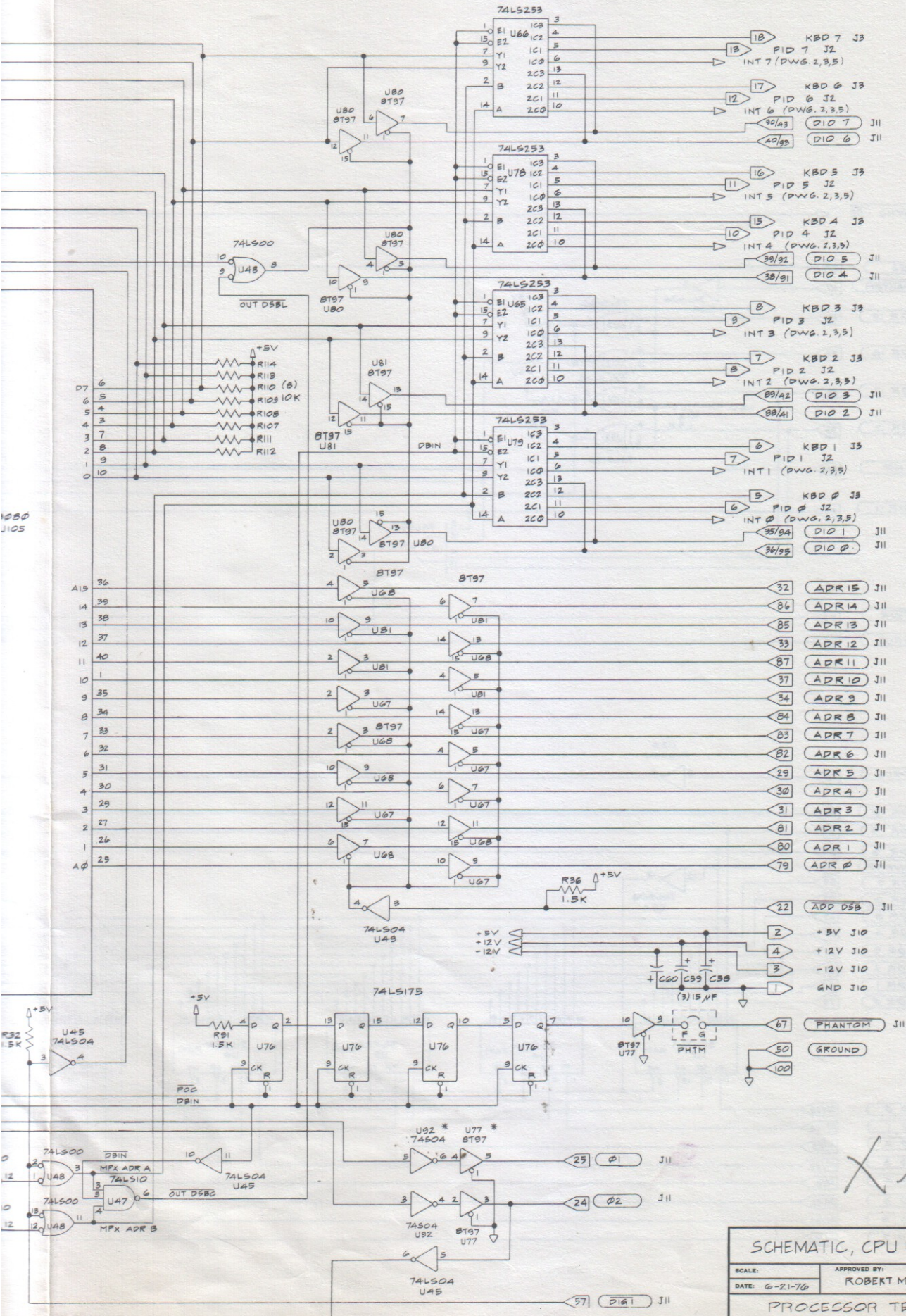
SCALE: ———	APPROVED BY: R. MARSH	DRAWN BY: LITO
DATE: 11-10-76		

PROCESSOR TECHNOLOGY CORP.

Rev. B



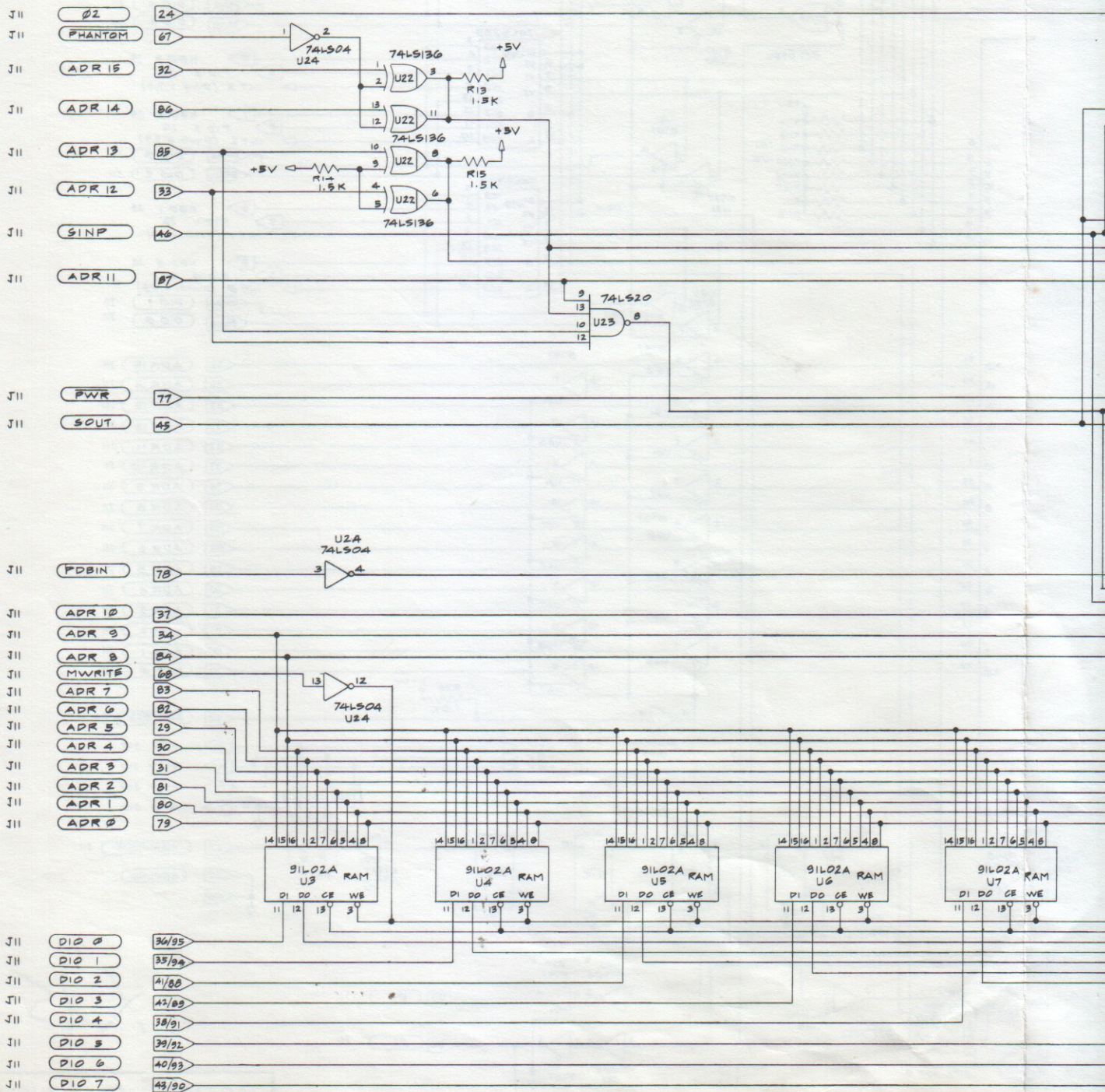
NOTE: SEE DRAWING 5



SCHEMATIC, CPU & BUS, S01

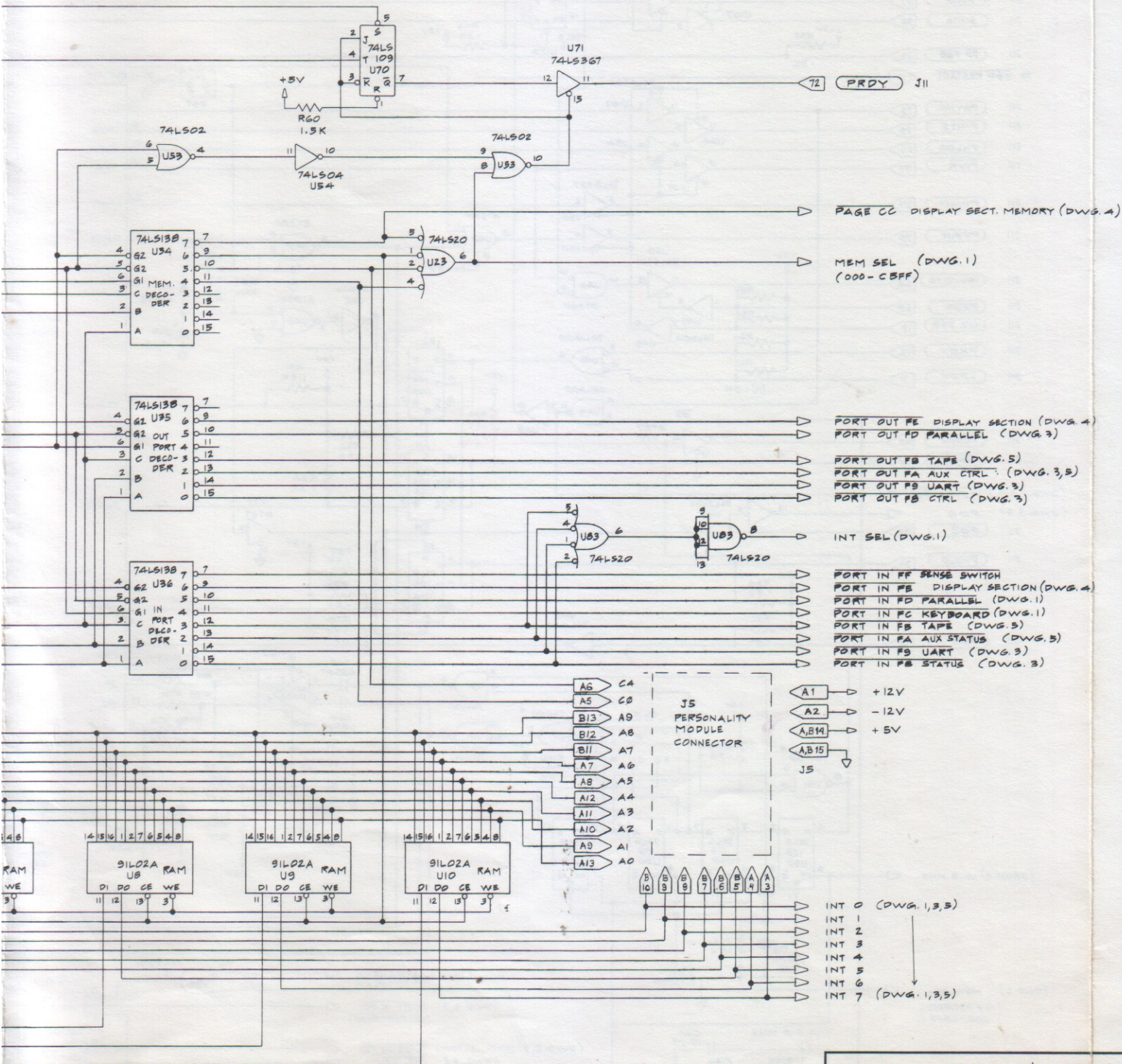
SCALE:	APPROVED BY:	DRAWN BY LITO
DATE: 6-21-76	ROBERT M. MARSH	REVISED 9-23-76
PROCESSOR TECHNOLOGY		
REV. D	DRAWING NUMBER	

(DWG. 1,3,4) PSYNG · 02



X16

NOTE: SEE DRAWING 5



SCHEMATIC, MEMORY & DECODER, Sol

SCALE: DATE: 6/15/76 APPROVED BY: ROBERT M. MARSH DRAWN BY: LITC REVISED 9-23-

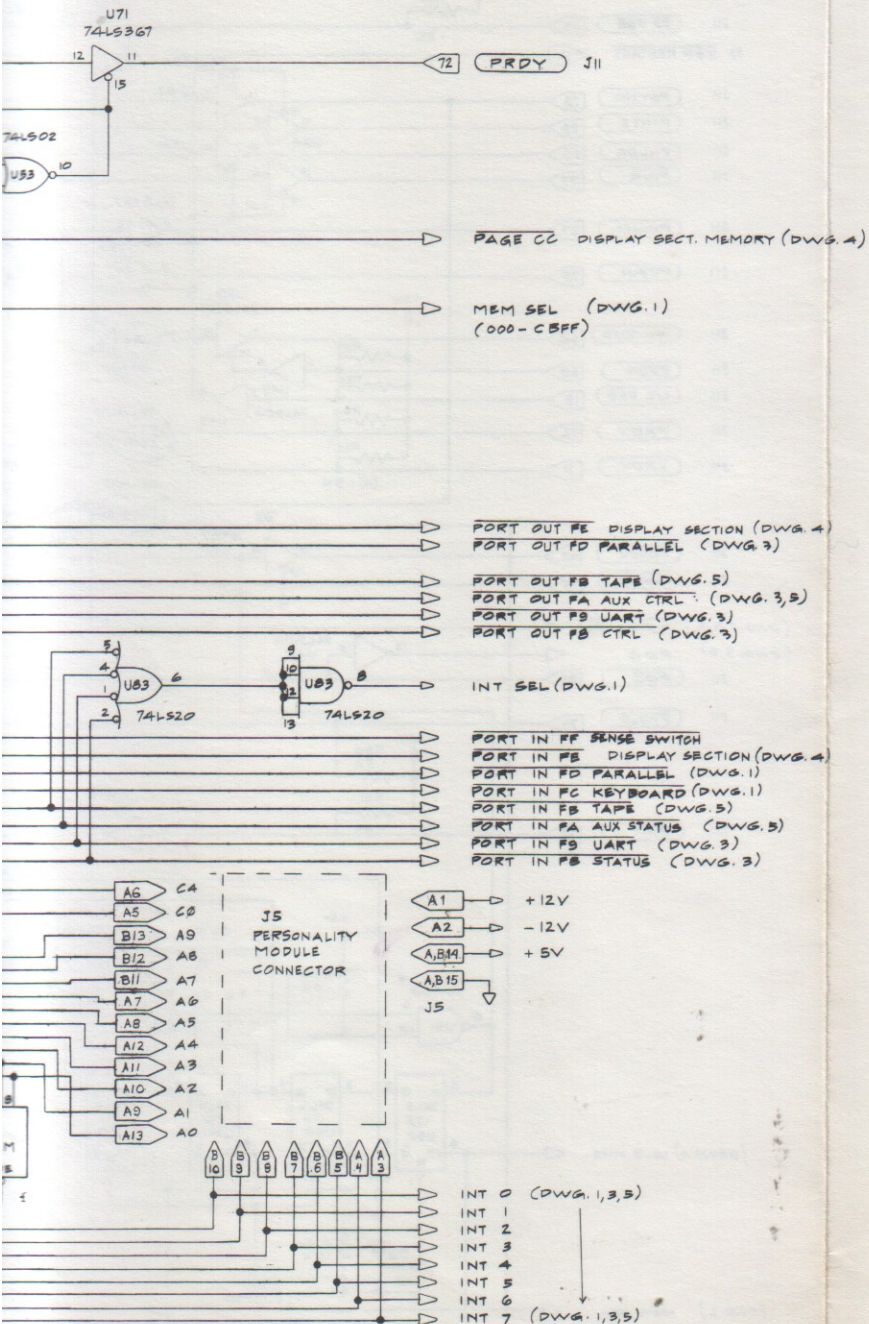
PROCESSOR TECHNOLOGY

REV. D

DRAWING NUMBER 2

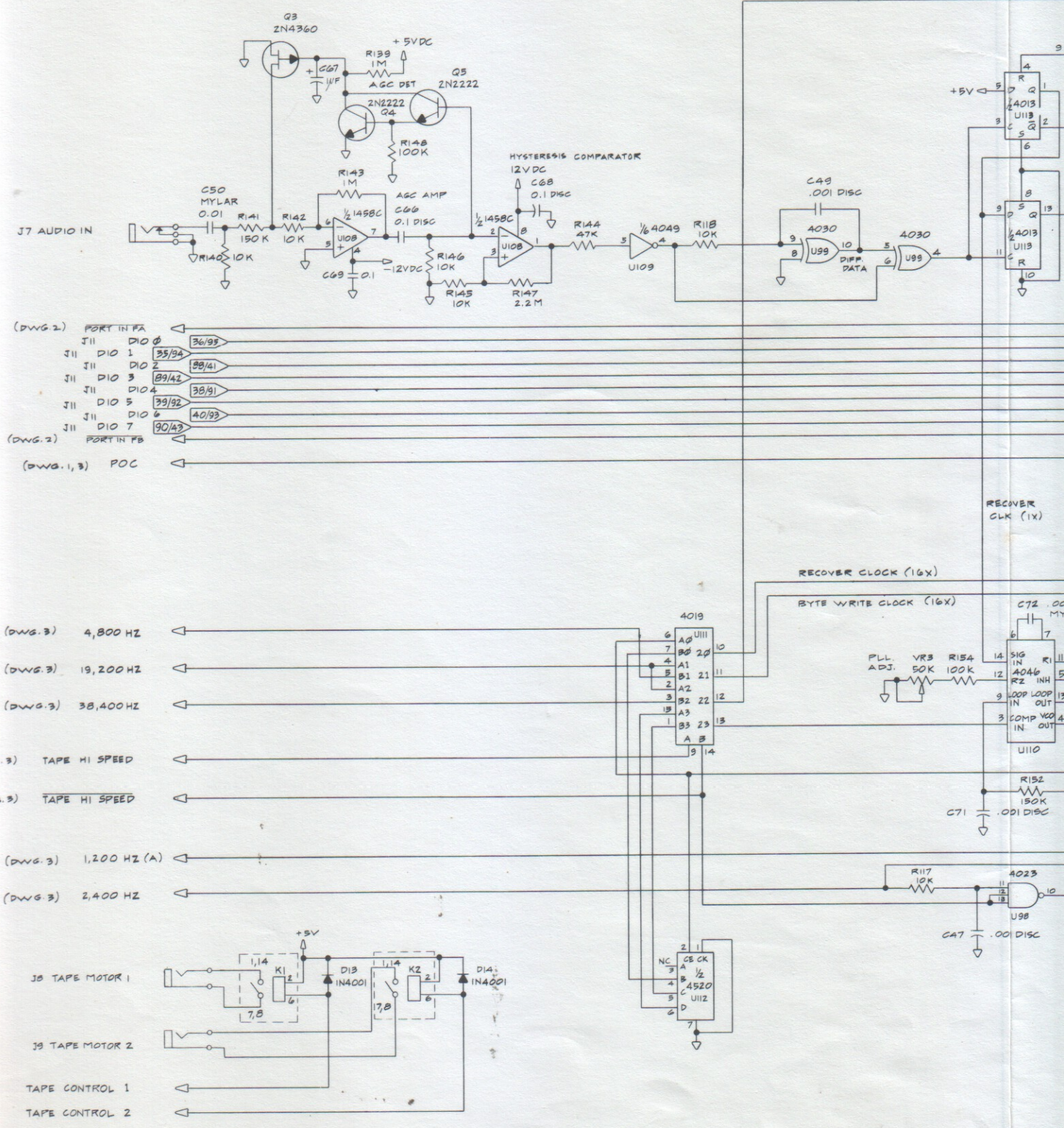
X16

NOTE: SEE DRAWING 5



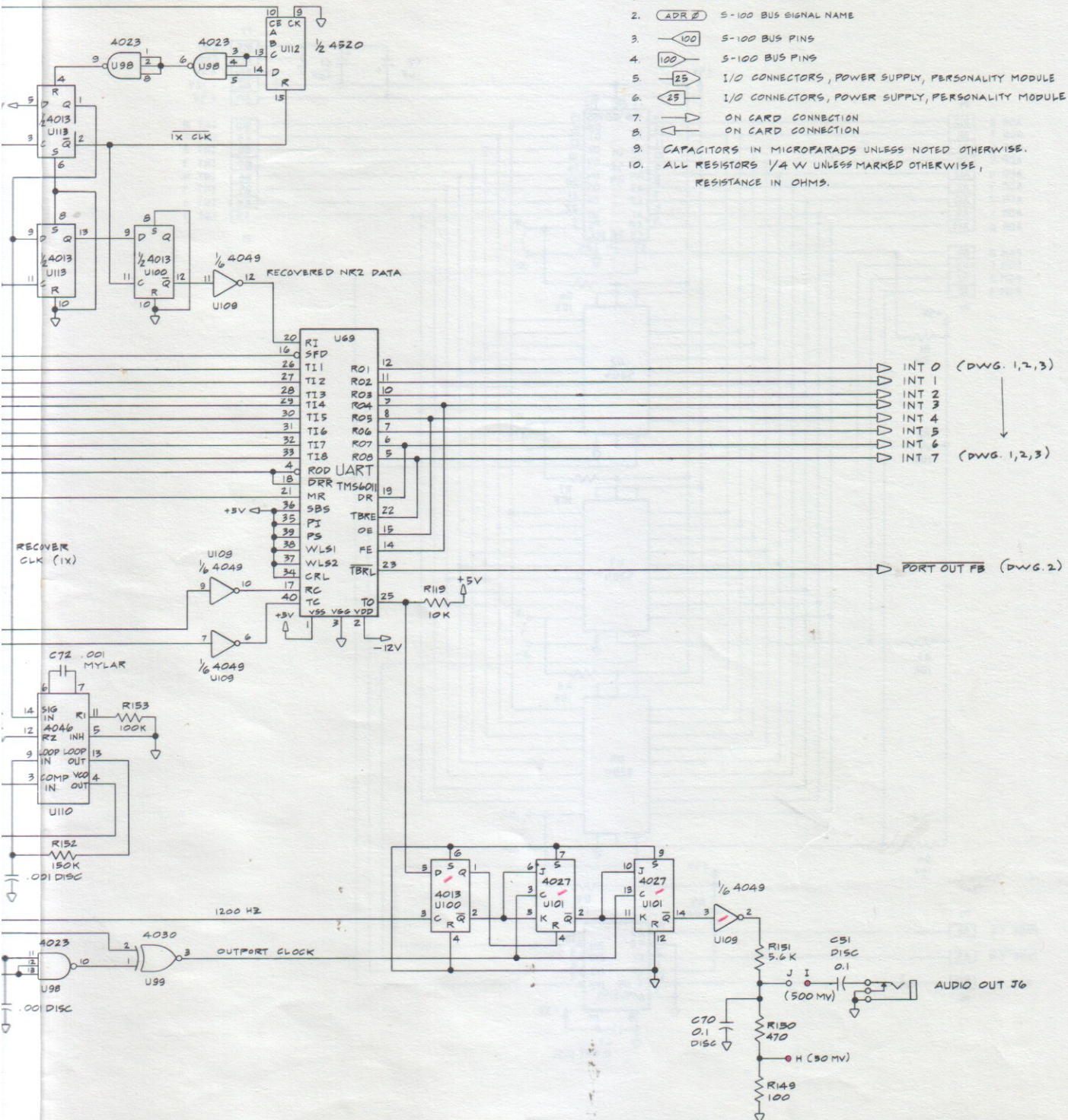
SCHEMATIC, MEMORY & DECODER, SOI

SCALE:	APPROVED BY:	DRAWN BY L10
DATE: 6/15/76	ROBERT M. MARSH	REVISED 9-23-76
PROCESSOR TECHNOLOGY		
REV. D	DRAWING NUMBER 2	



NOTES:

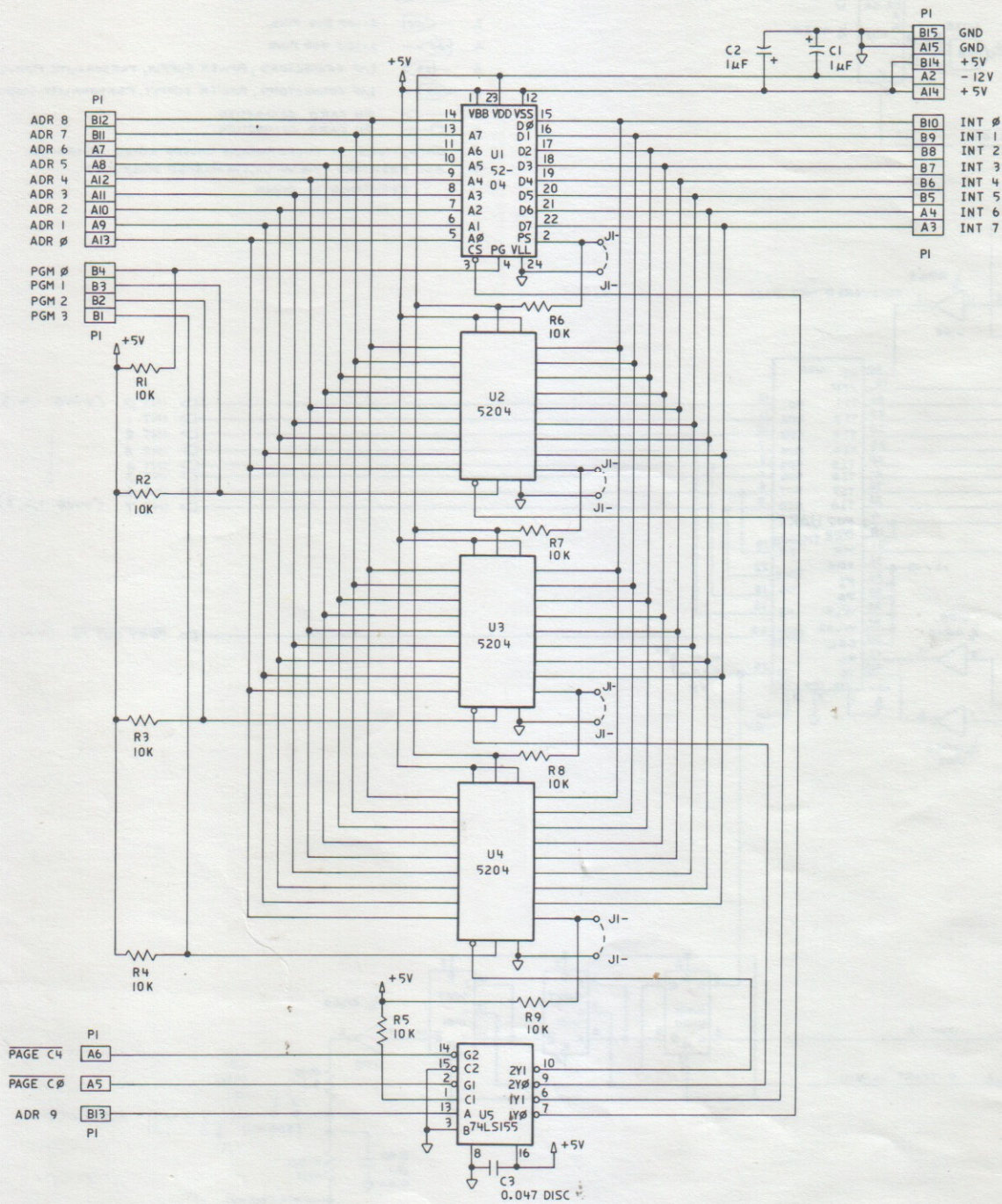
1. * DO NOT SUBSTITUTE
2. ADR # S-100 BUS SIGNAL NAME
3. 100 S-100 BUS PINS
4. 100 S-100 BUS PINS
5. 25 I/O CONNECTORS, POWER SUPPLY, PERSONALITY MODULE
6. 25 I/O CONNECTORS, POWER SUPPLY, PERSONALITY MODULE
7. ON CARD CONNECTION
8. ON CARD CONNECTION
9. CAPACITORS IN MICROFARADS UNLESS NOTED OTHERWISE.
10. ALL RESISTORS 1/4 W UNLESS MARKED OTHERWISE, RESISTANCE IN OHMS.



X19

SCHEMATIC, AUDIO TAPE I/O, S01

SCALE:	APPROVED BY:	DRAWN BY: LITO
DATE: 6-28-76	ROBERT M. MARSH	REVISED 9-23-76
PROCESSOR TECHNOLOGY		
REV. D	DRAWING NUMBER 5	

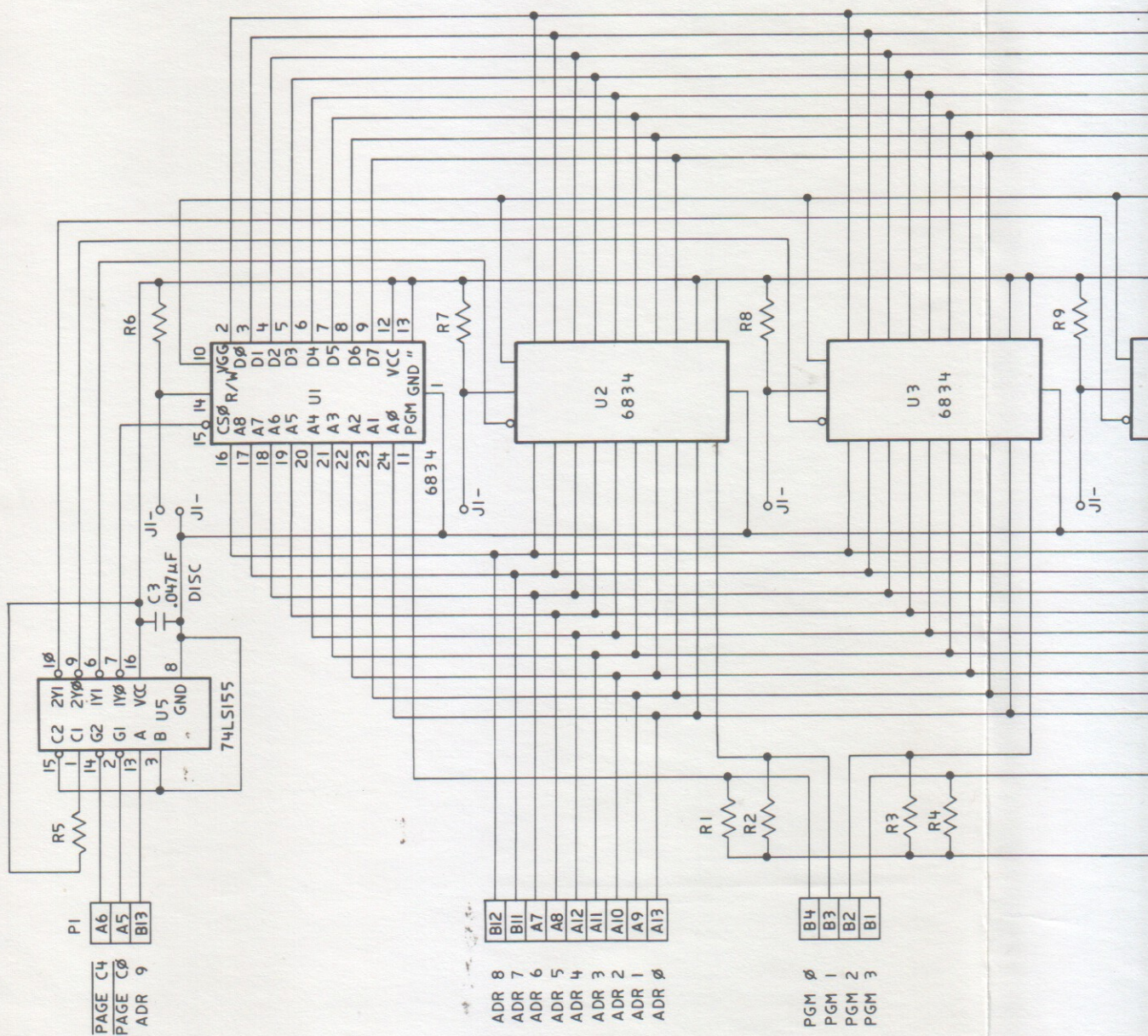


SCHEMATIC, Personality Module 5204

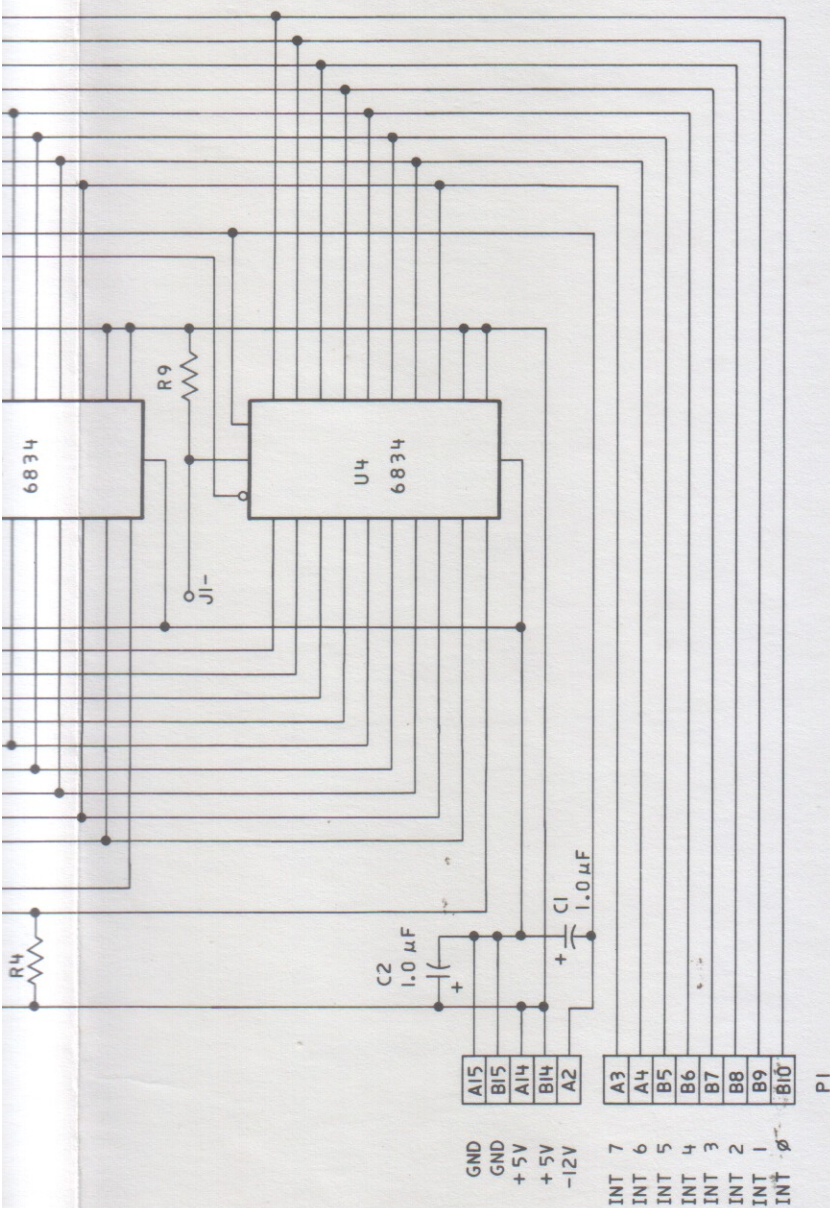
SCALE: — APPROVED BY: ROBERT M. MARSH DRAWN BY: LITO
DATE: 10-19-76 CHECKED BY: LEE

PROCESSOR TECHNOLOGY CORP.

Sol



X-21



NOTE: ALL RESISTORS 10K, 1/4W, 5%

SCHEMATIC, Personality Module 6834

SCALE: _____

APPROVED BY:

DRAWN BY: LITO

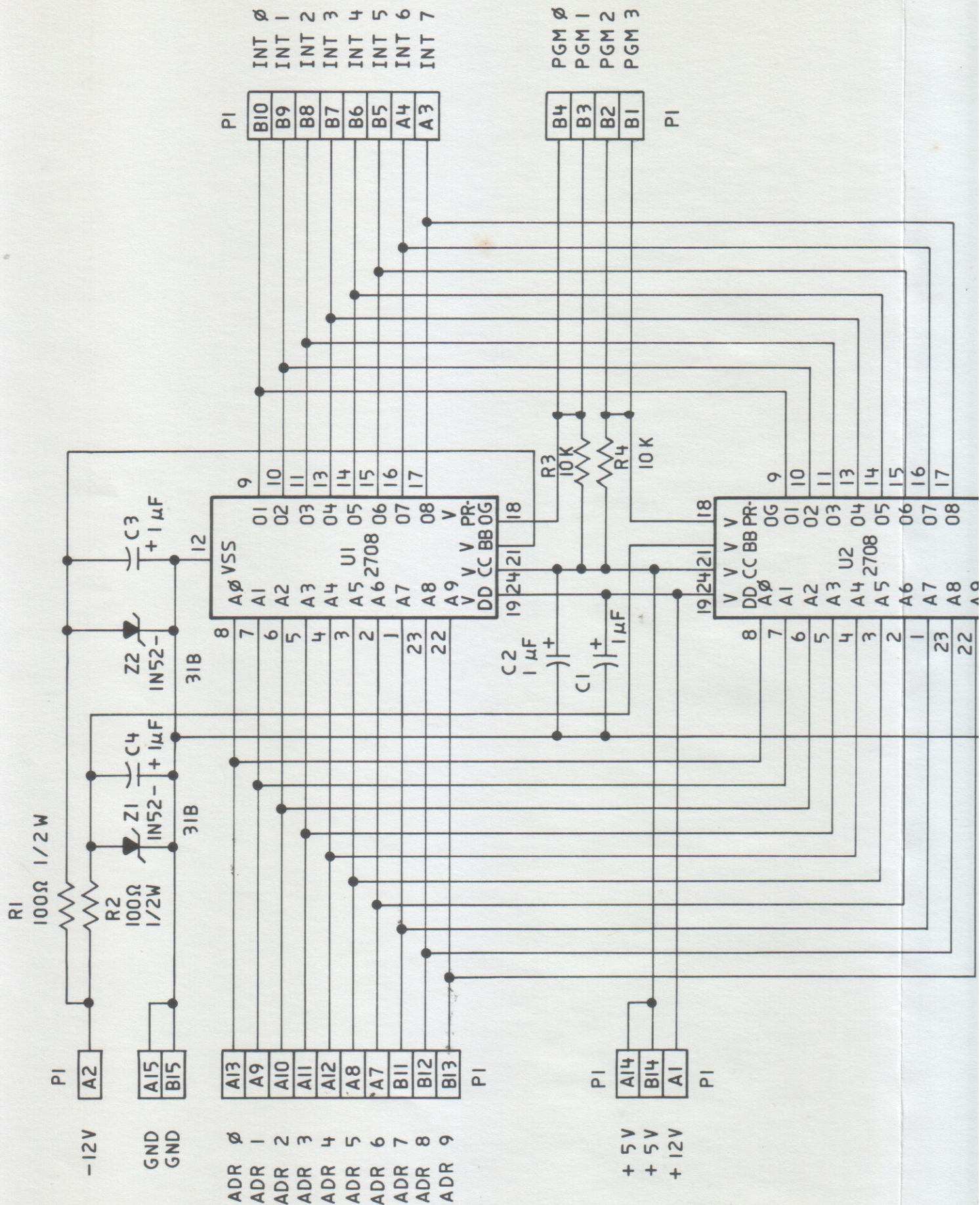
DATE: 10-20-76

ROBERT M. MARSH

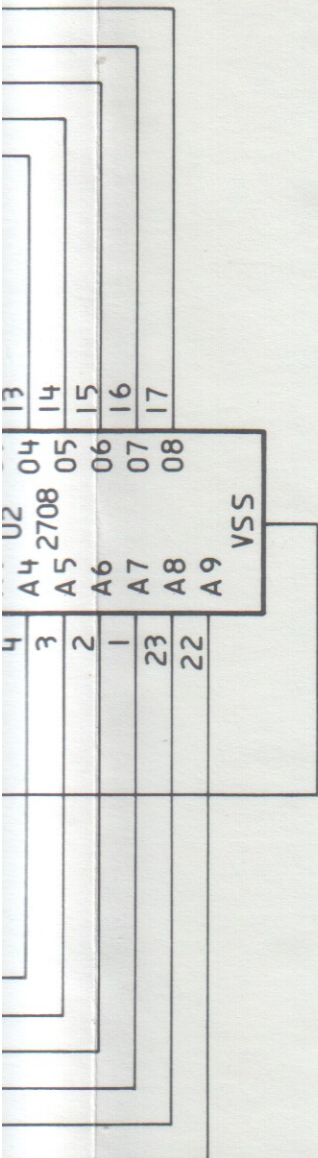
CHECKED BY: LEE

PROCESSOR TECHNOLOGY CORP.

Sol



X-22



SCHEMATIC, Personality Module 2708

SCALE: —

APPROVED BY:

DRAWN BY: LITO

DATE: 10-20-76

ROBERT M. MARSH

CHECKED BY: LEE

PROCESSOR TECHNOLOGY CORP.

Sol