

LINIVAC

1900/10 CONTROL UNIT TYPE 3053  
MM-3053-00,-01,-02,-03

BOOK \_\_\_\_\_  
OF \_\_\_\_\_

# DESIGN REFERENCE MANUAL

## 1900/10 CADE SYSTEM

### BASIC CENTRAL SYSTEM



17112 Armstrong Avenue  
Irvine, California 92714

Phone (714) 540-8340  
TWX (910) 595-1912

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Schematic, Logic Indicator	60D-0003-01		
Schematic, Switching Regulator	60D-0002-01		
Schematic, A.C. Control	60C-0026-01		

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REVISIONS				
SYM	DESCRIPTION	DRFTG	APPROVED	DATE
RELEASE PER DRO				
C7	REVISED & REDRAWN	LMD	[Signature]	2/15/78
C8	INCORP DCO 05632	[Signature]	[Signature]	6/17/78
C9	INCORP DCO 06159	[Signature]	[Signature]	8/29/78
10	CODE 10 REL W/O CHANGE PER DCO 06424	[Signature]	[Signature]	1/14/79
11	INCORP DCO 08595	[Signature]	[Signature]	1/14/79
12	INCORP DCO 08798	[Signature]	[Signature]	5/23/80

NOTE : UNLESS OTHERWISE SPECIFIED

1 WITH THE TAPE SYSTEM IN IDLE, ADJUST R12 TO OBTAIN A TRACKING OSCILLATOR CENTER FREQUENCY OF 4.4MHZ±0.05MHZ. USE LOCKTITE TO HOLD POT POSITION.

SHEET	12	13	14	15															
REV	10	10	10	10															
REV STATUS OF SHEETS	SHEET	1	2	3	4	5	6	7	8	9	10	11							
	REV	12	12	12	11	11	11	10	10	10	10	10							
DRAWN	E. OWENS 11/27/78																		
CHECK	E. PATRICK 12/7/78																		
APPR	K. KONECHY 11/27/78																		
RELEASE	G. BRINK 11/27/78																		
<b>BUSINESS SYSTEMS</b>																			
TITLE SCHEMATIC - PCBA, P.E. READ LOGIC																			
THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION ON WHICH SHALL NOT BE REPRODUCED OR TRANSFERRED TO OTHER PERSONS OR DISCLOSED TO OTHERS OR USED FOR MANUFACTURING OR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN PERMISSION OF PERTEC BUSINESS SYSTEMS																			
CODE IDENT. NO.	SIZE	DWG NO.	REV																
DC CODE	D	120905	12																
SCALE	10	DO NOT SCALE DWG	SHEET 1 OF 15																

260958	-	XL40	-
NEXT ASSY	QTY	MODEL	CTY
APPLICATION			

D

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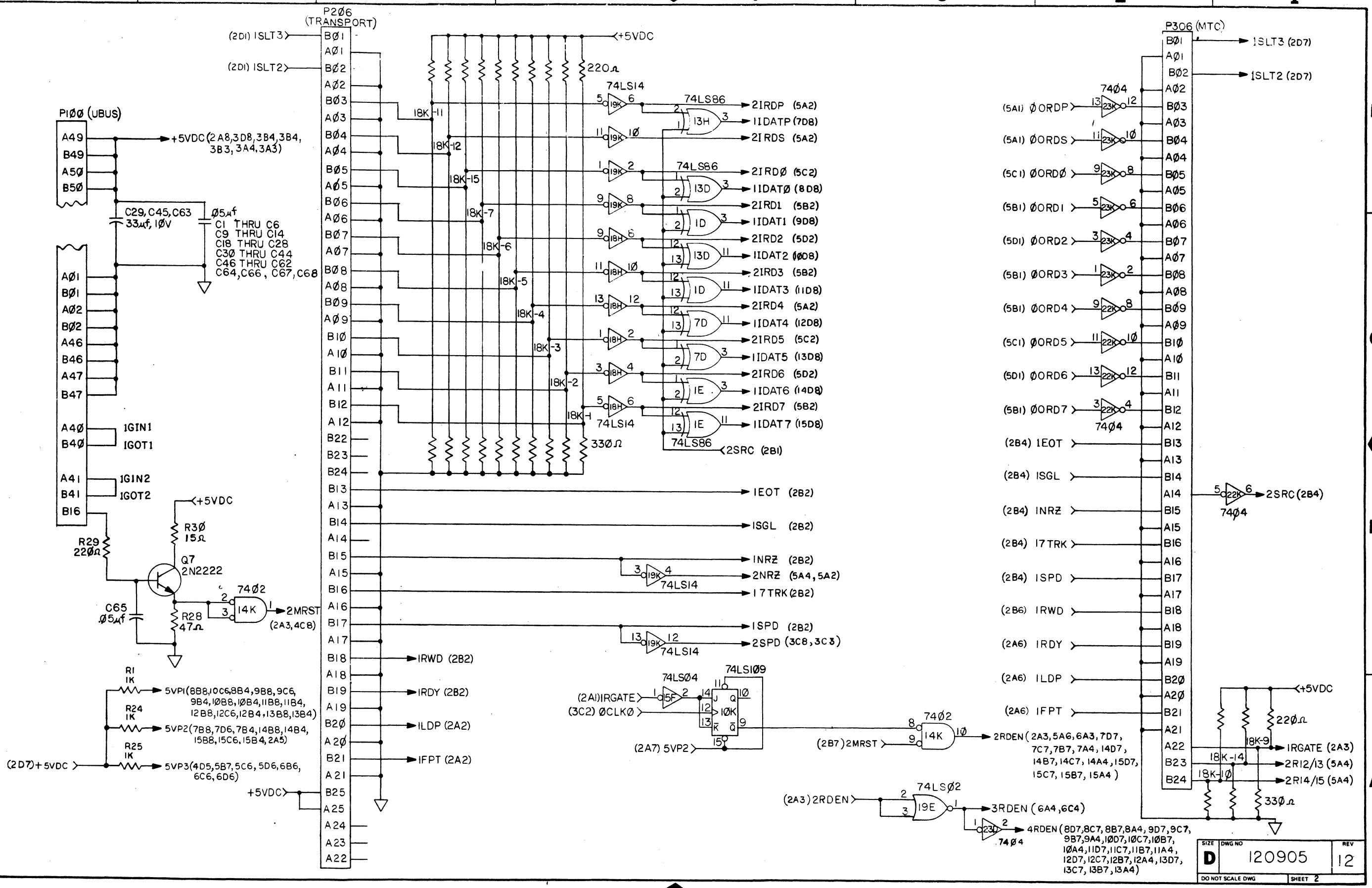
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D  
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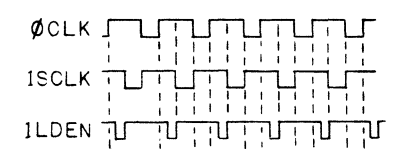
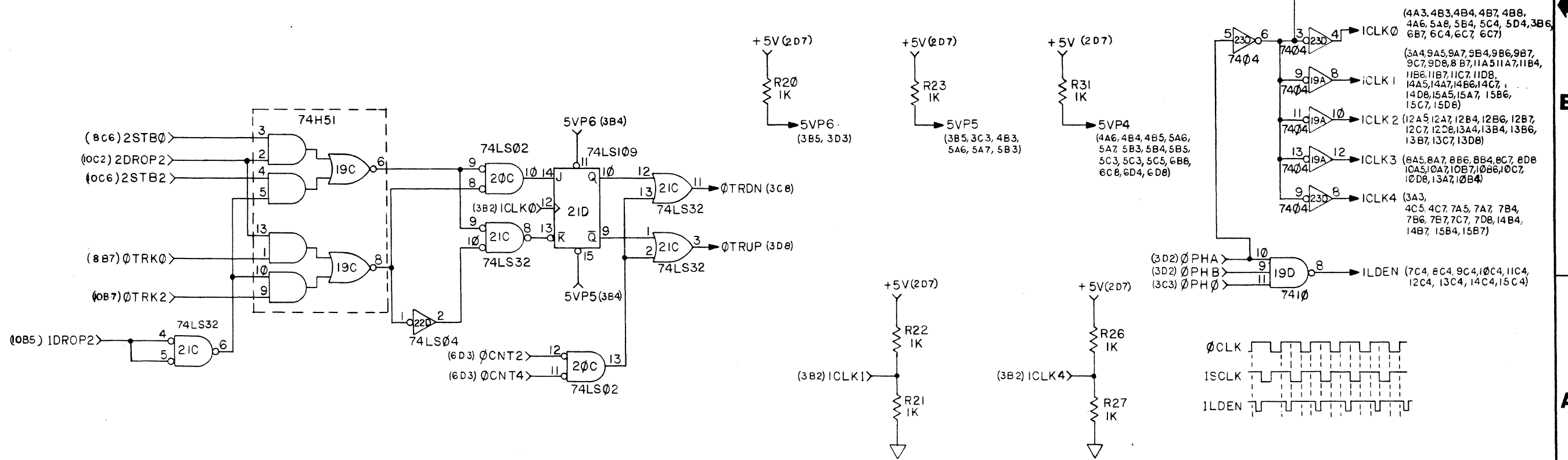
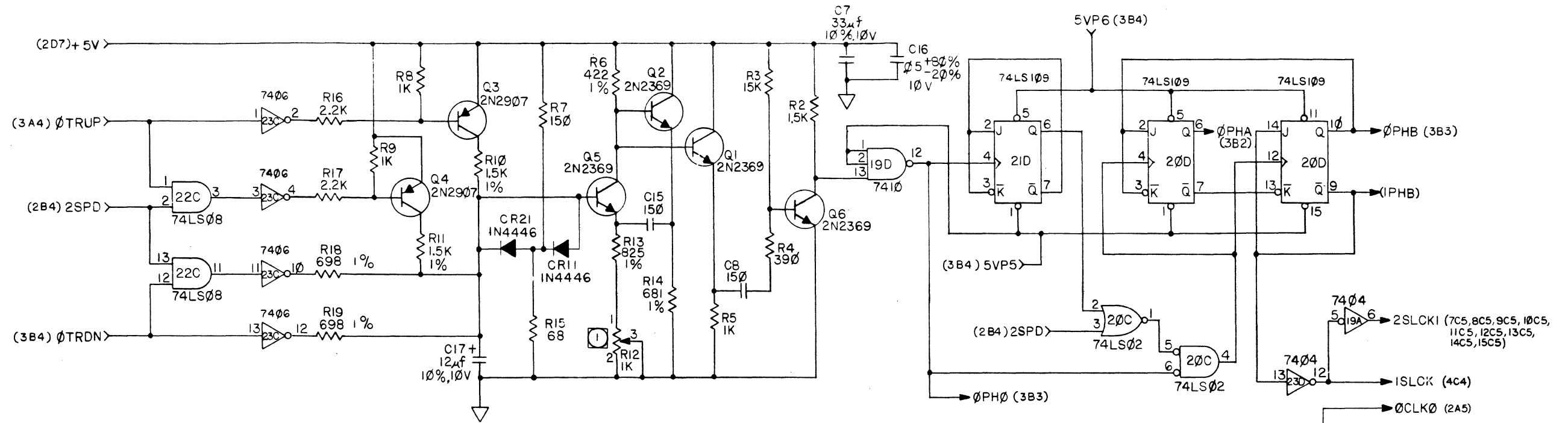
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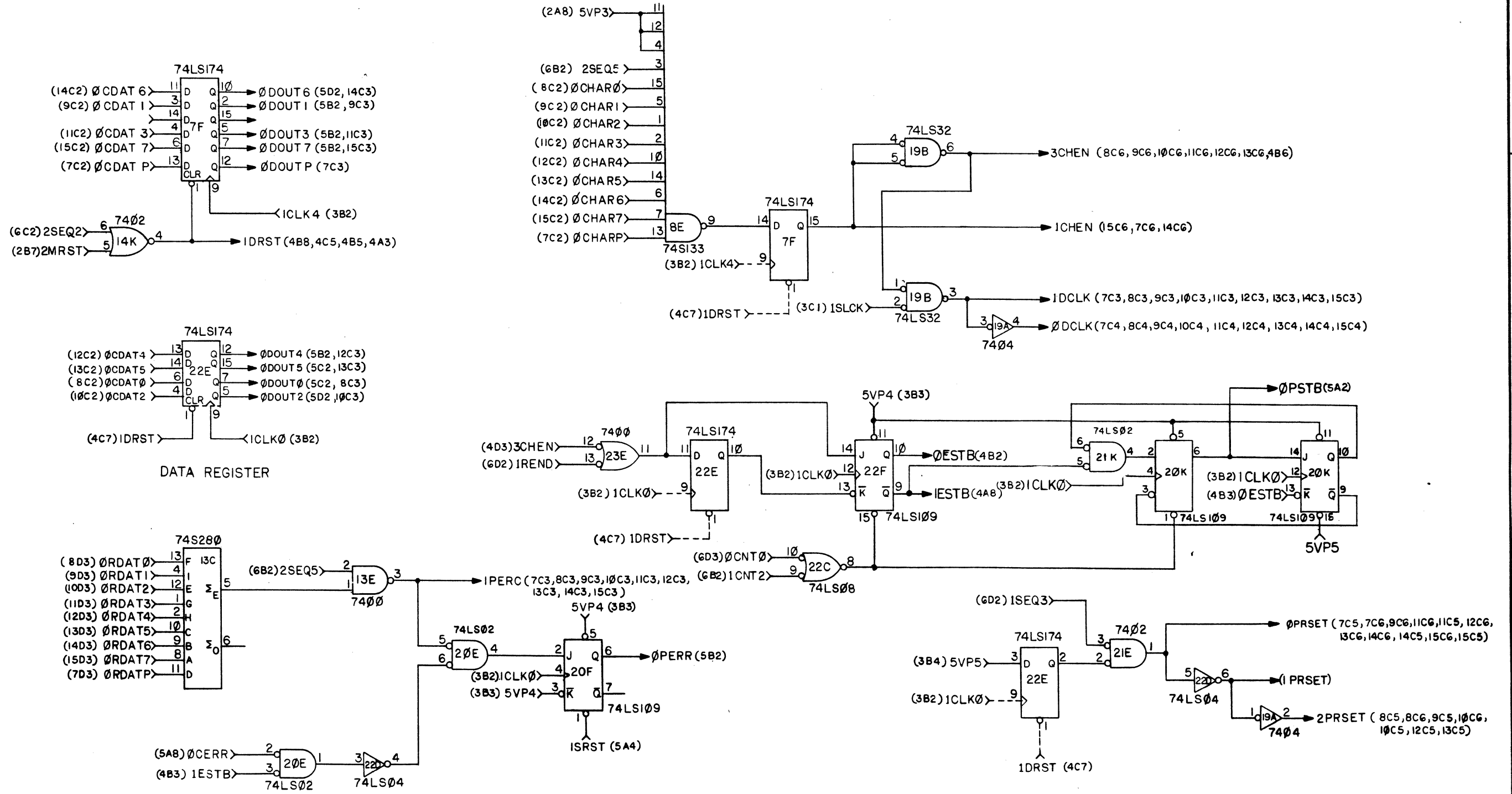
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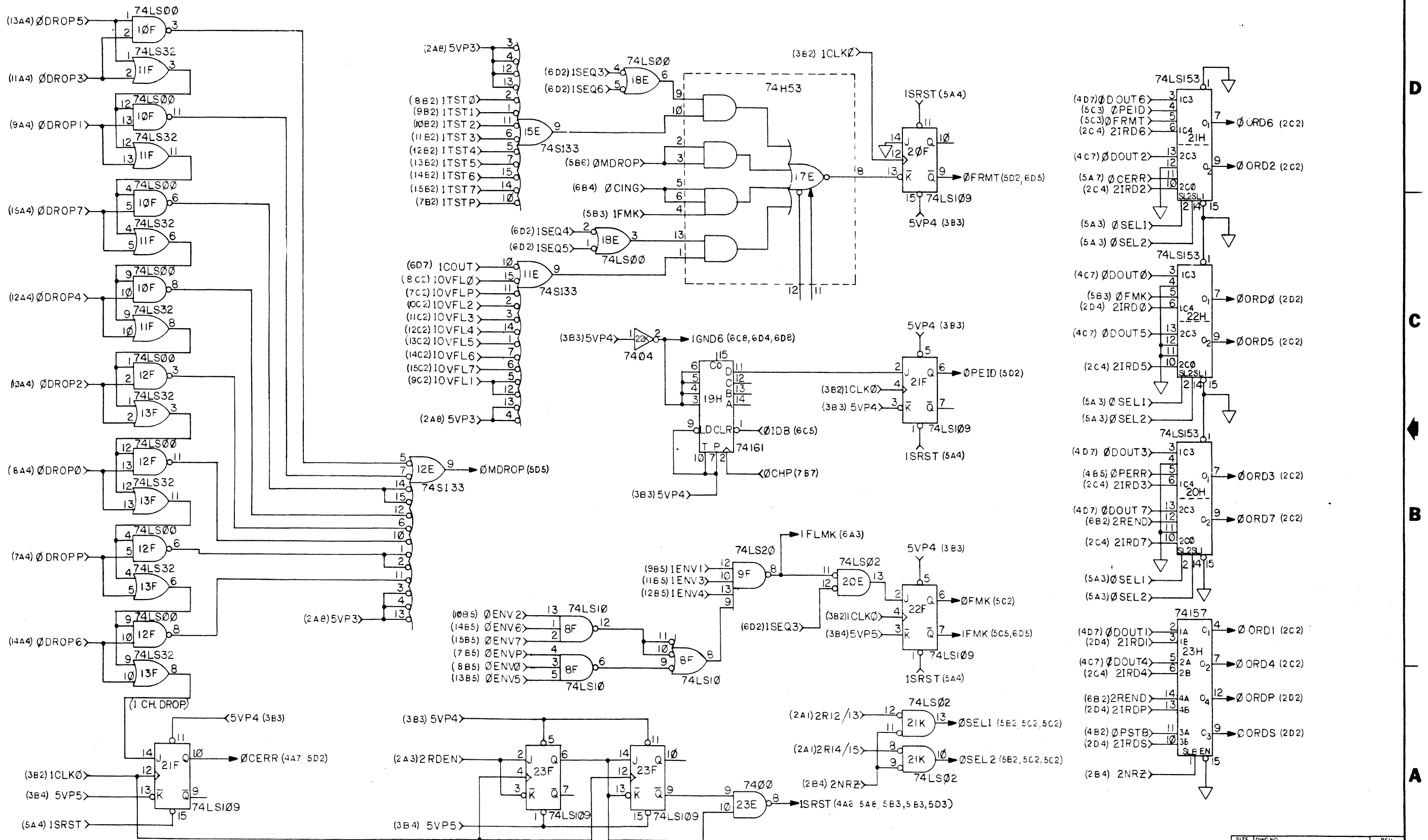
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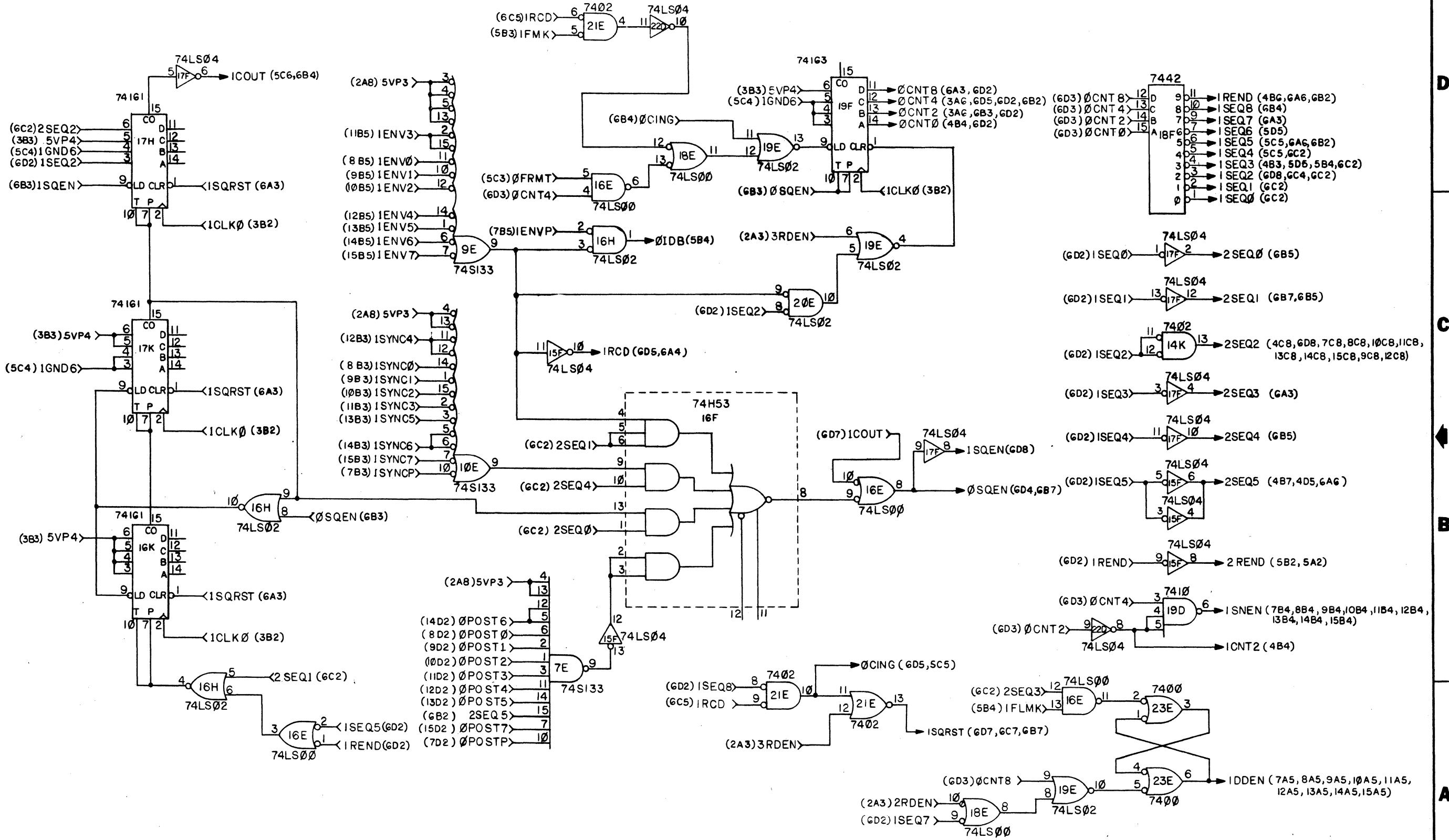
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READ SEQUENCER

SIZE	DWG NO	REV
<b>D</b>	120905	11
DO NOT SCALE DWG		SHEET 6

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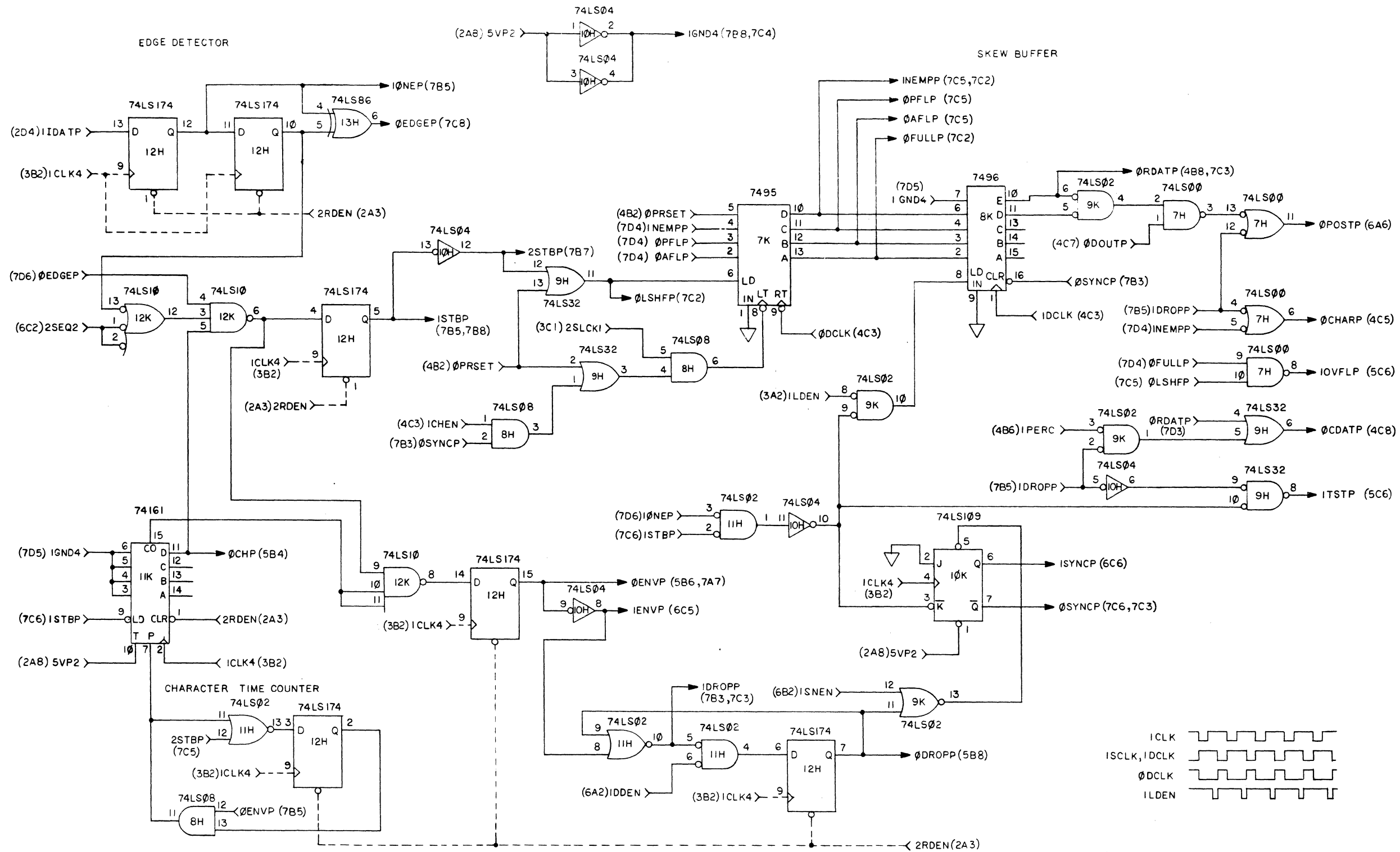
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1 OF 9 DATA CHANNEL DECODER - DESKEWER (CHAN P)

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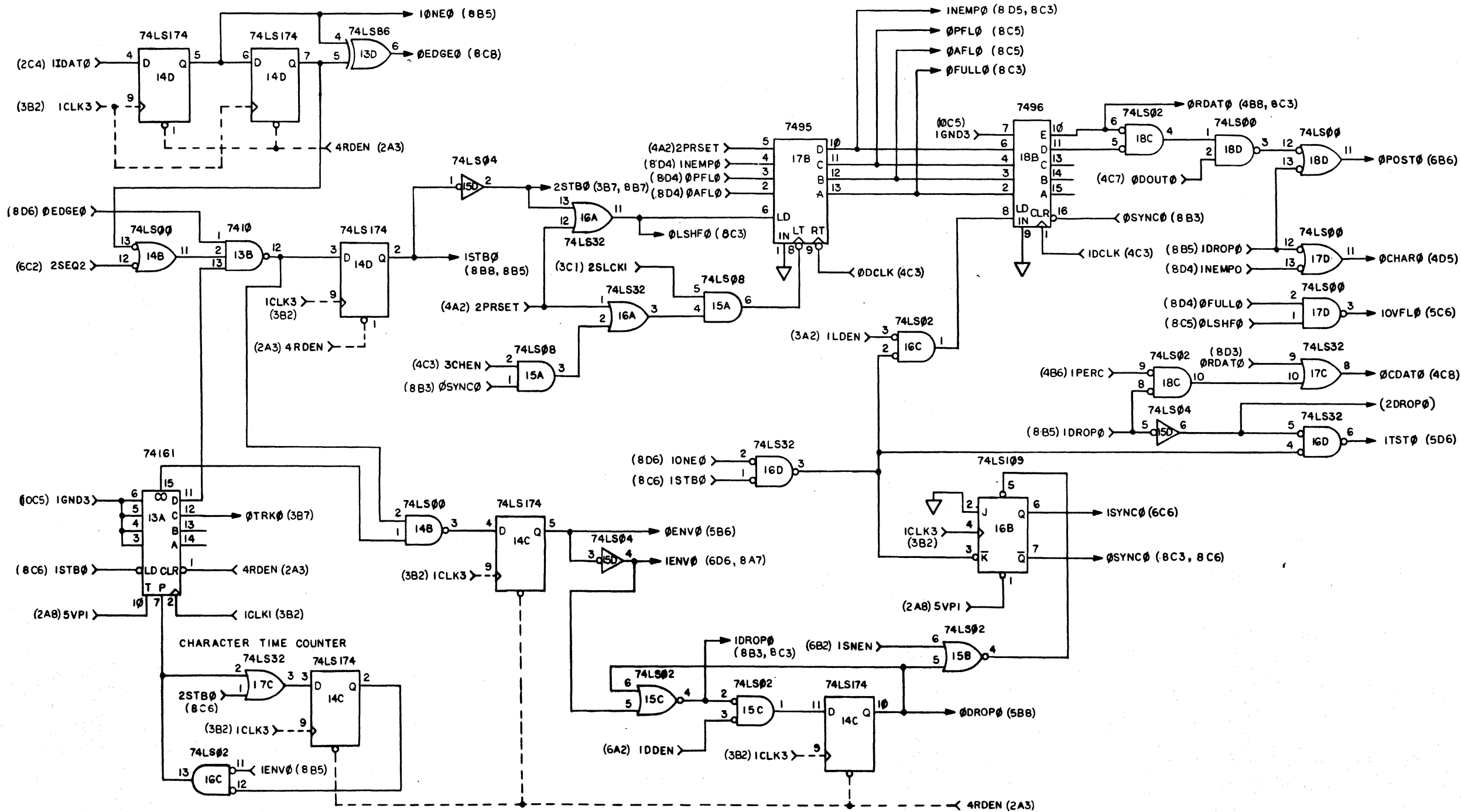
3

2

1

EDGE DETECTOR

SKEW BUFFER



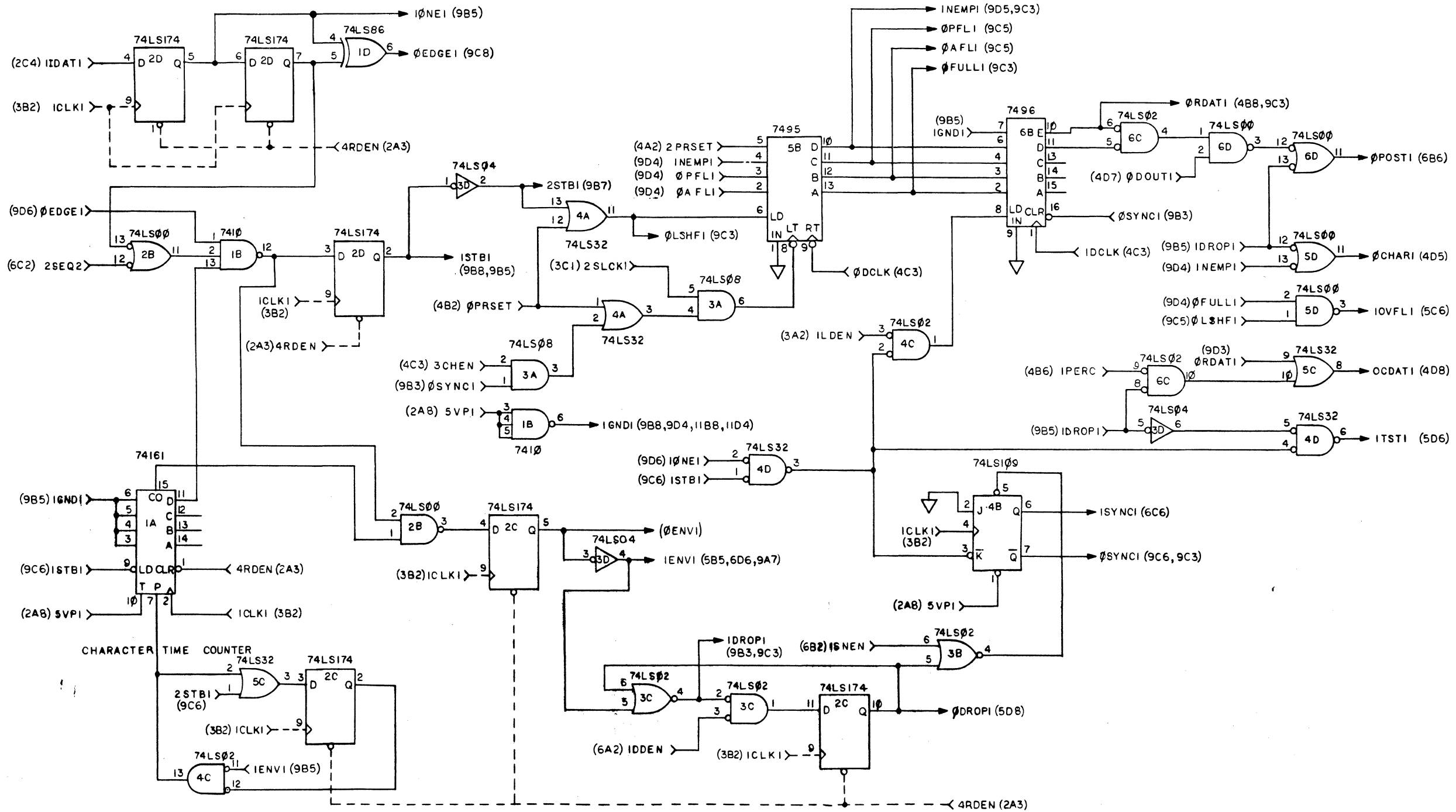
1 OF 9 DATA CHANNEL DECODER- DESKEWER (CHAN 0)

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D	120905	10
DO NOT SCALE DWG		SHEET 5

8 7 6 5 4 3 2 1

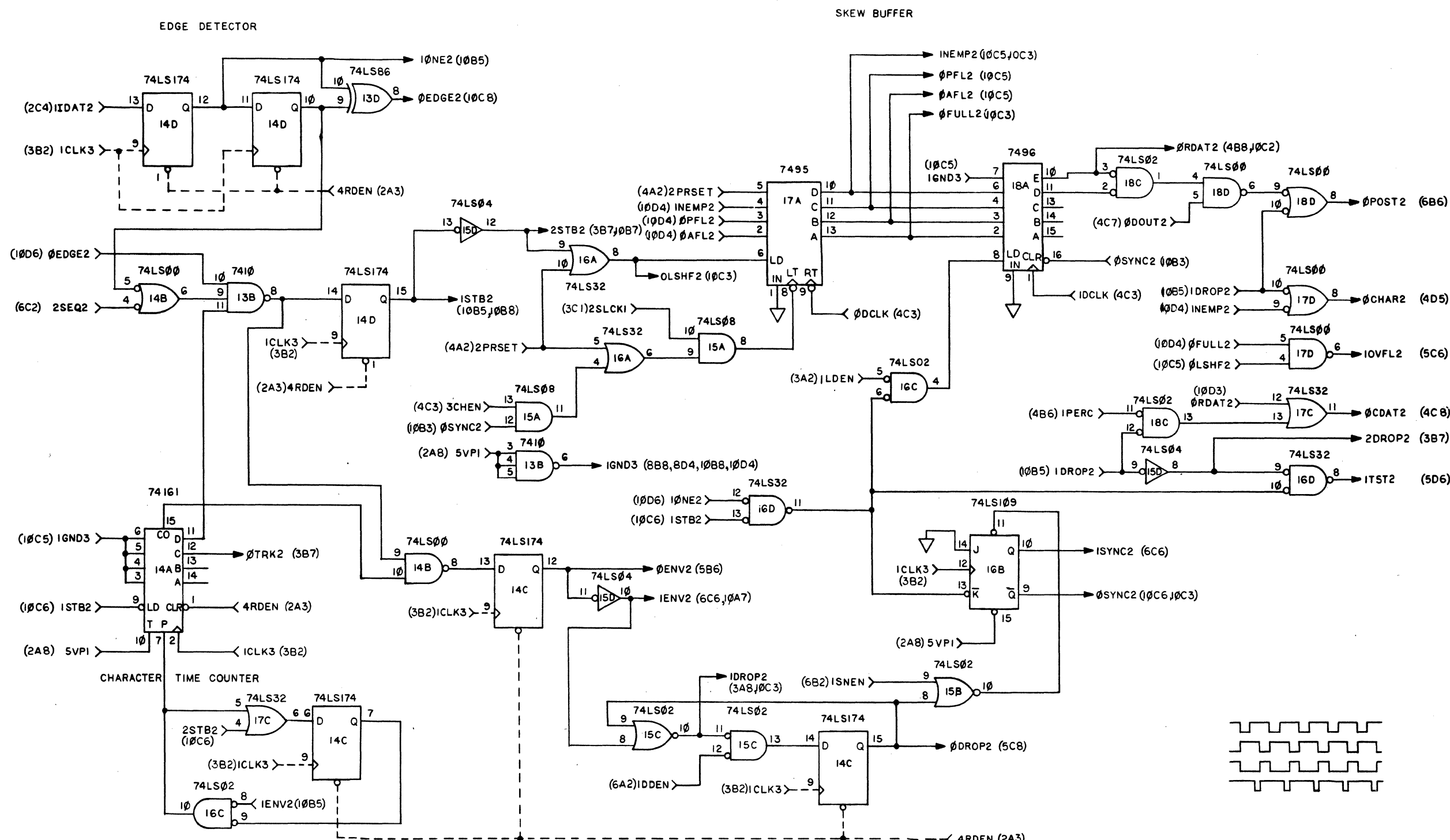
EDGE DETECTOR

SKEW BUFFER



1 OF 9 DATA CHANNEL DECODE-DESKEWER (CHAN 1)

SIZE	DWG NO	REV
D	120905	10
DO NOT SCALE DWG		SHEET 9



1 OF 9 DATA CHANNEL DECODER - DESKEWER (CHAN 2)

SIZE	DWG NO	REV
D	120905	10
DO NOT SCALE DWG		SHEET 10

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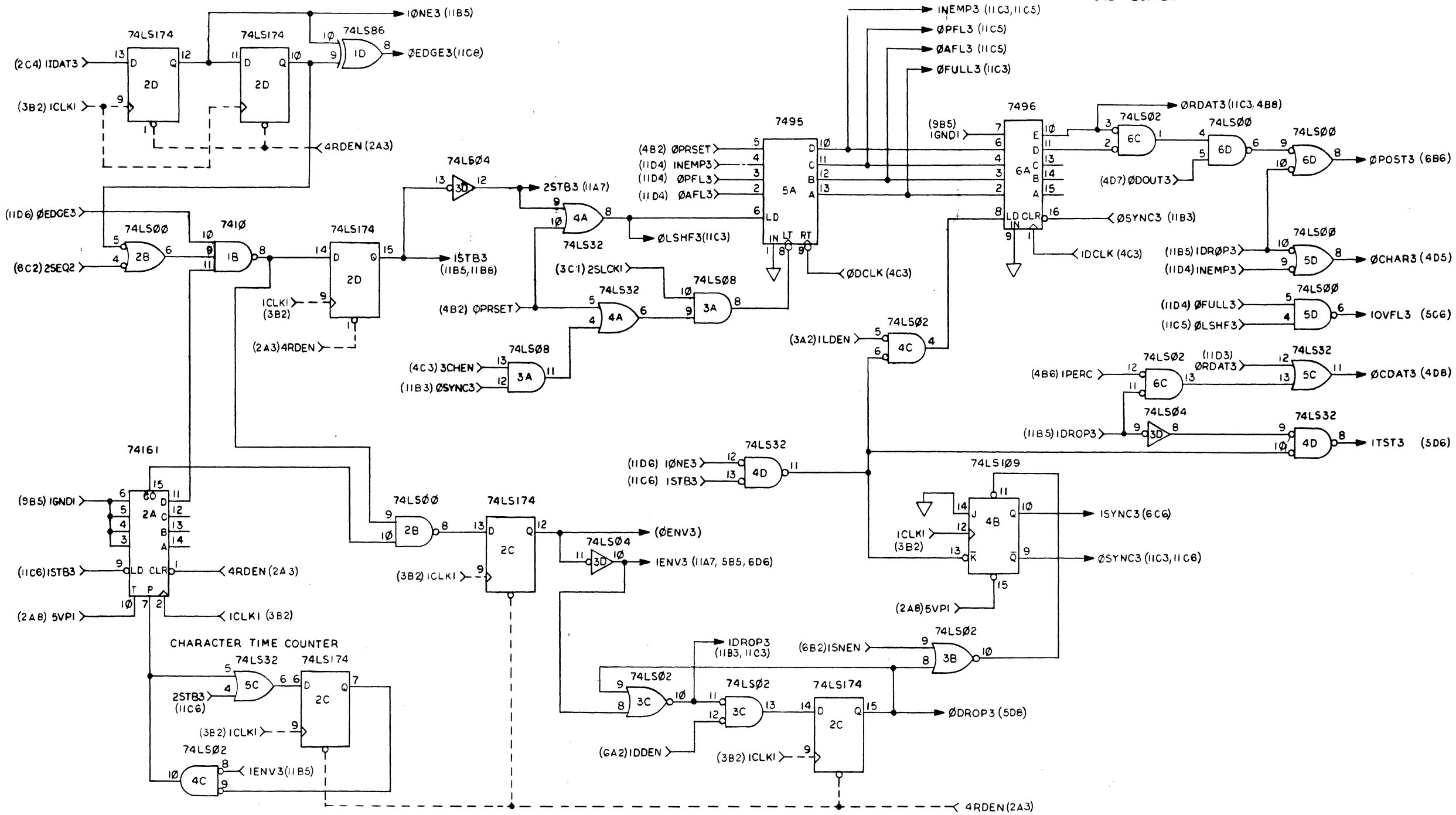
C

B

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EDGE DETECTOR

SKREW BUFFER



1 OF 9 DATA CHANNEL DECODER - DESKEWER (CHAN. 3)





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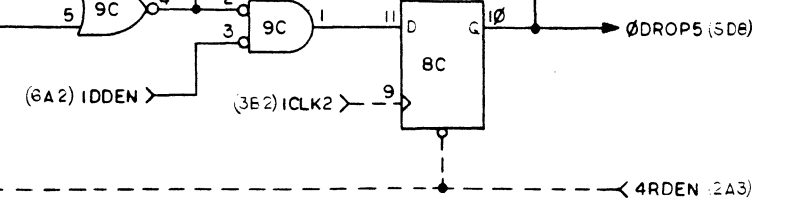
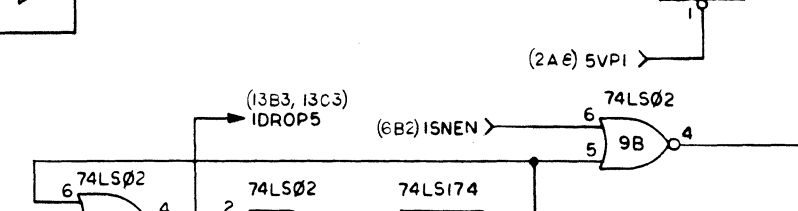
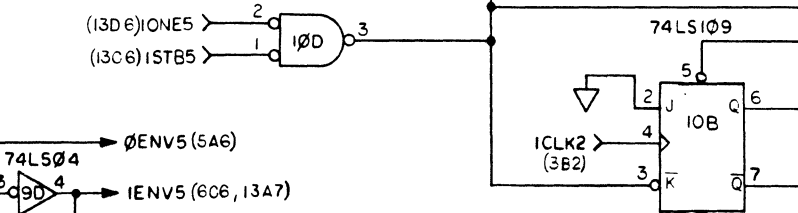
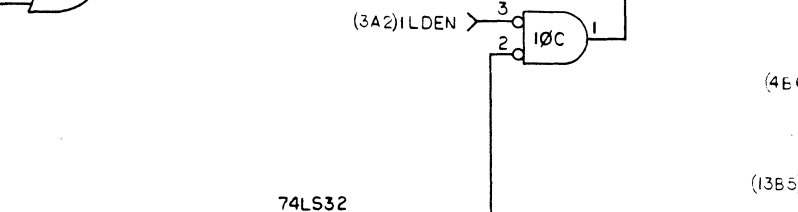
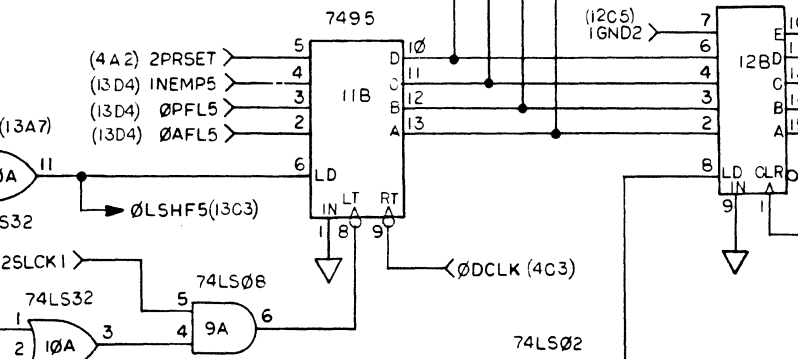
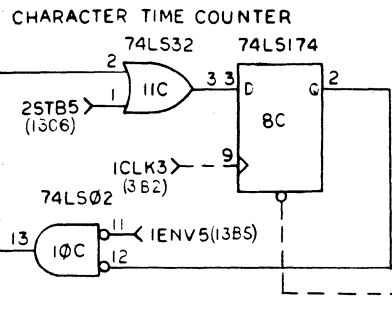
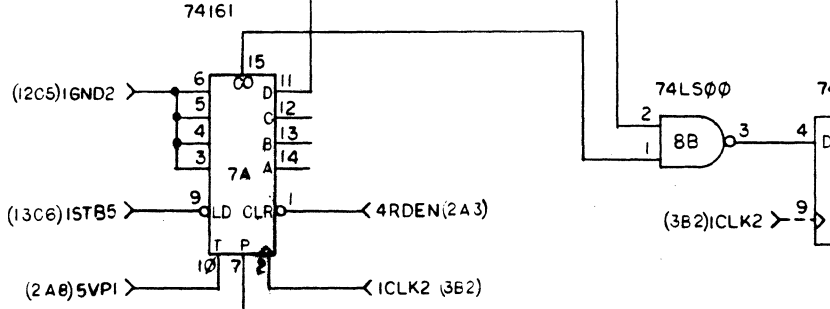
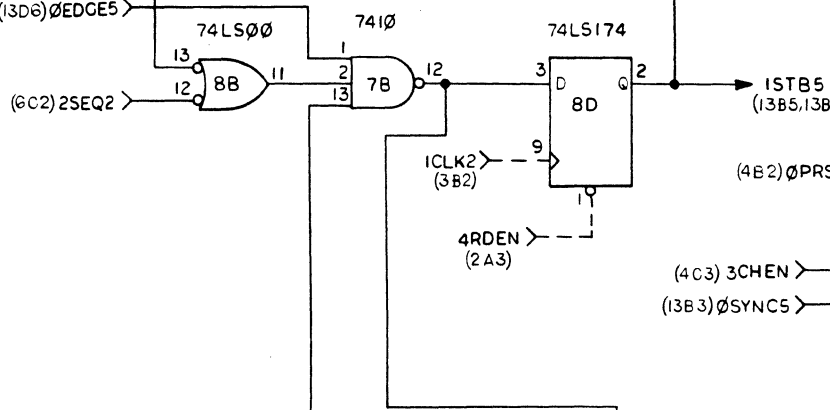
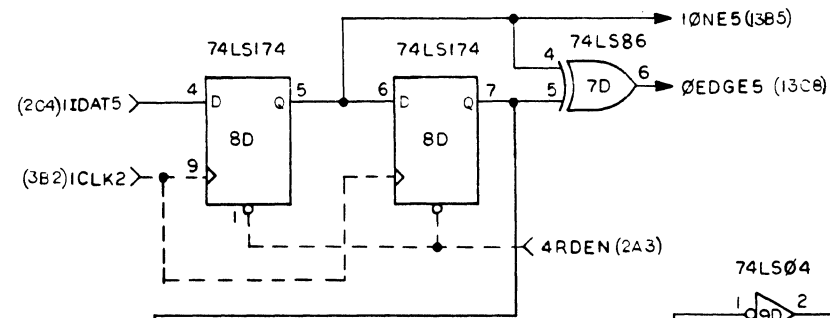
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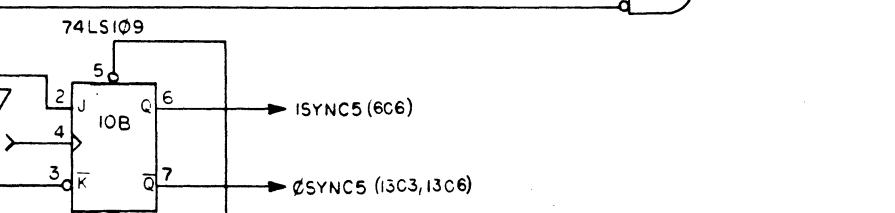
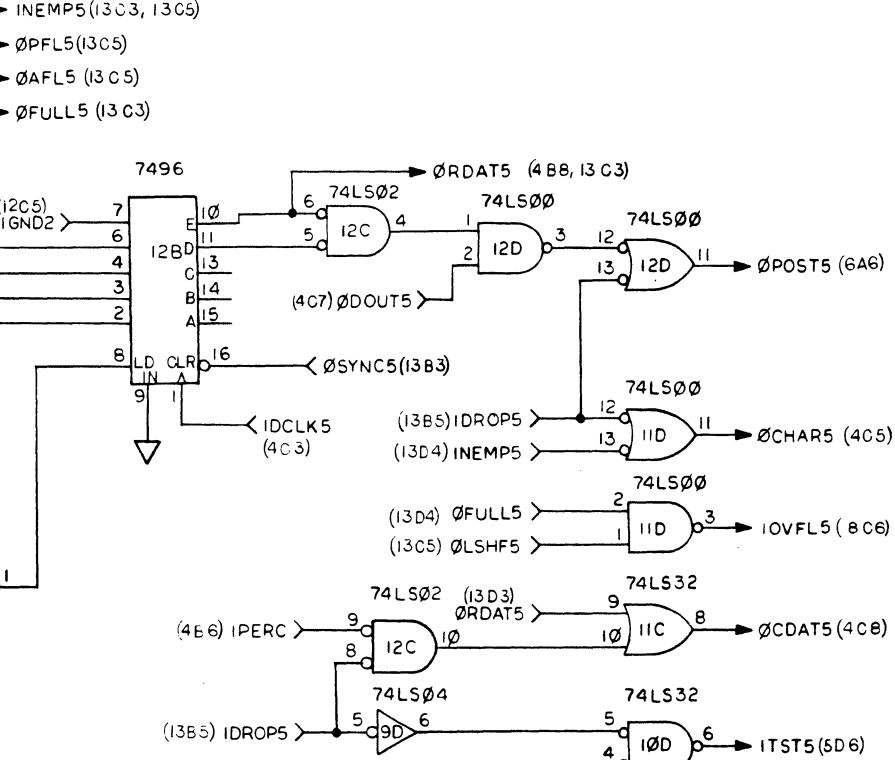
2

1

EDGE DETECTOR



SKEW BUFFER



SIZE	DWG NO	REV
D	120905	10
DO NOT SCALE DWG		SHEET 13

8

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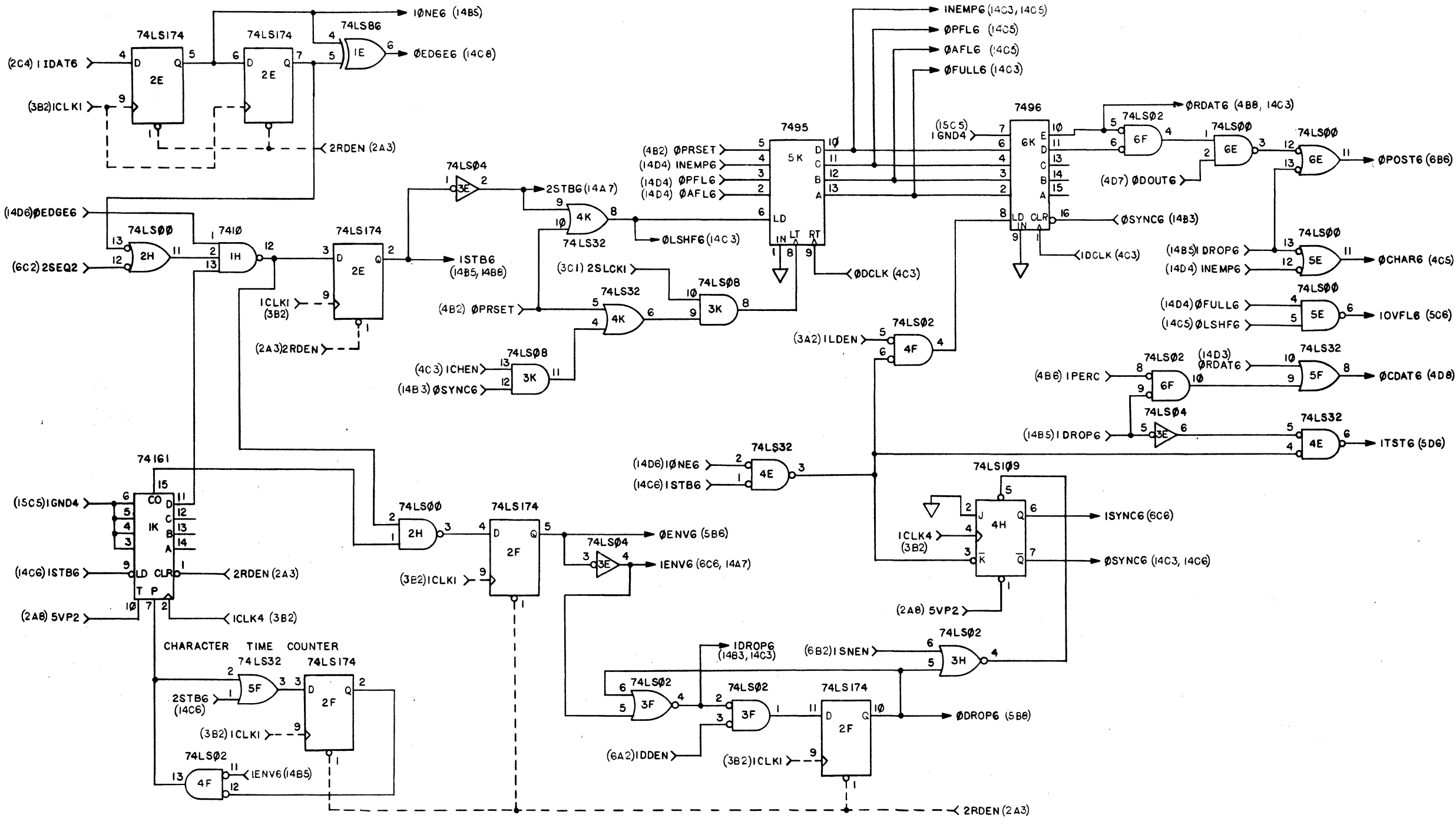
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EDGE DETECTOR

SKEW BUFFER



1 OF 9 DATA CHANNEL DECODER - DESKEWER (CHAN 6)

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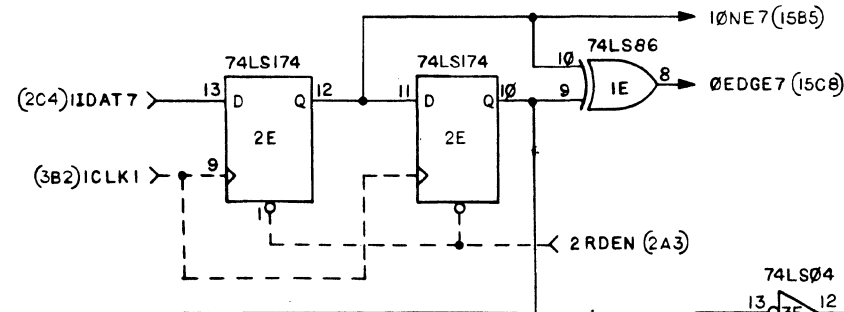
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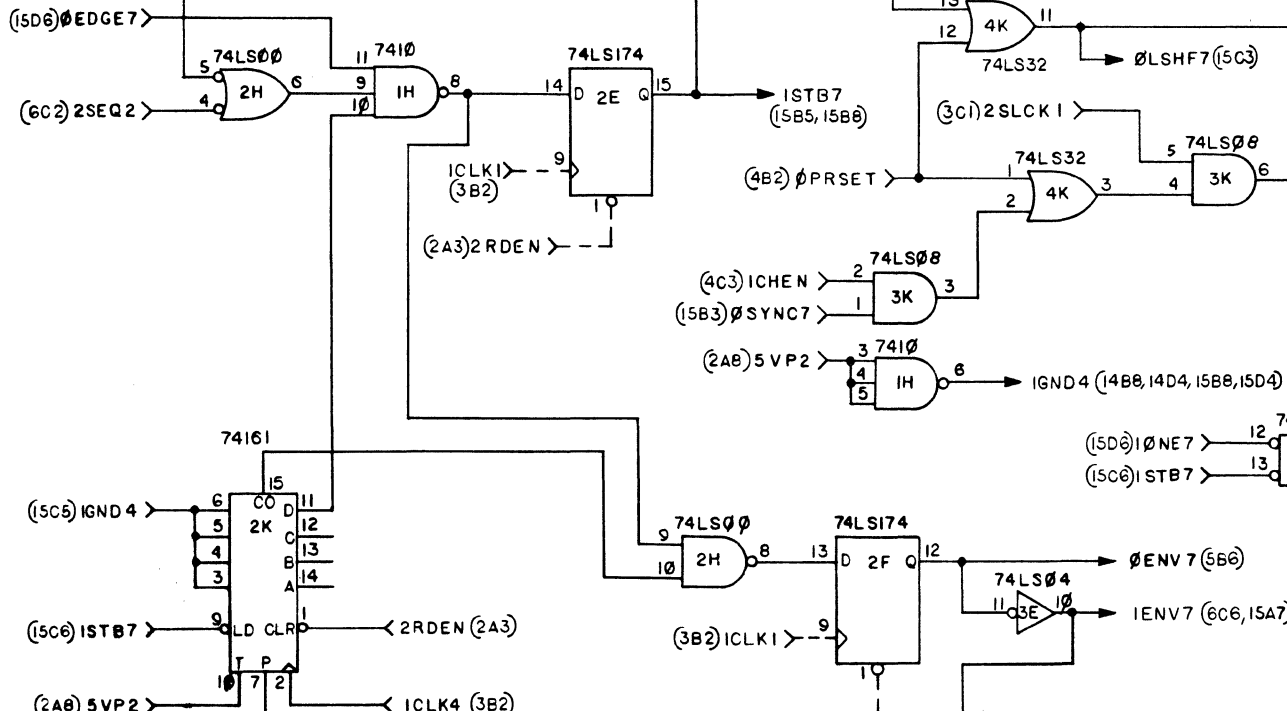
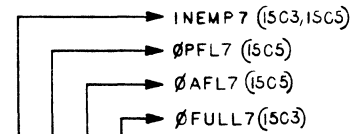
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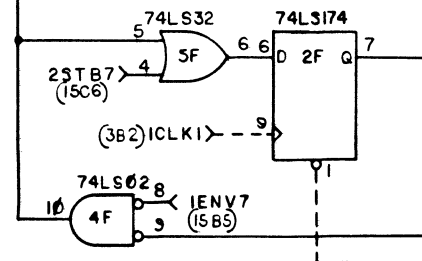
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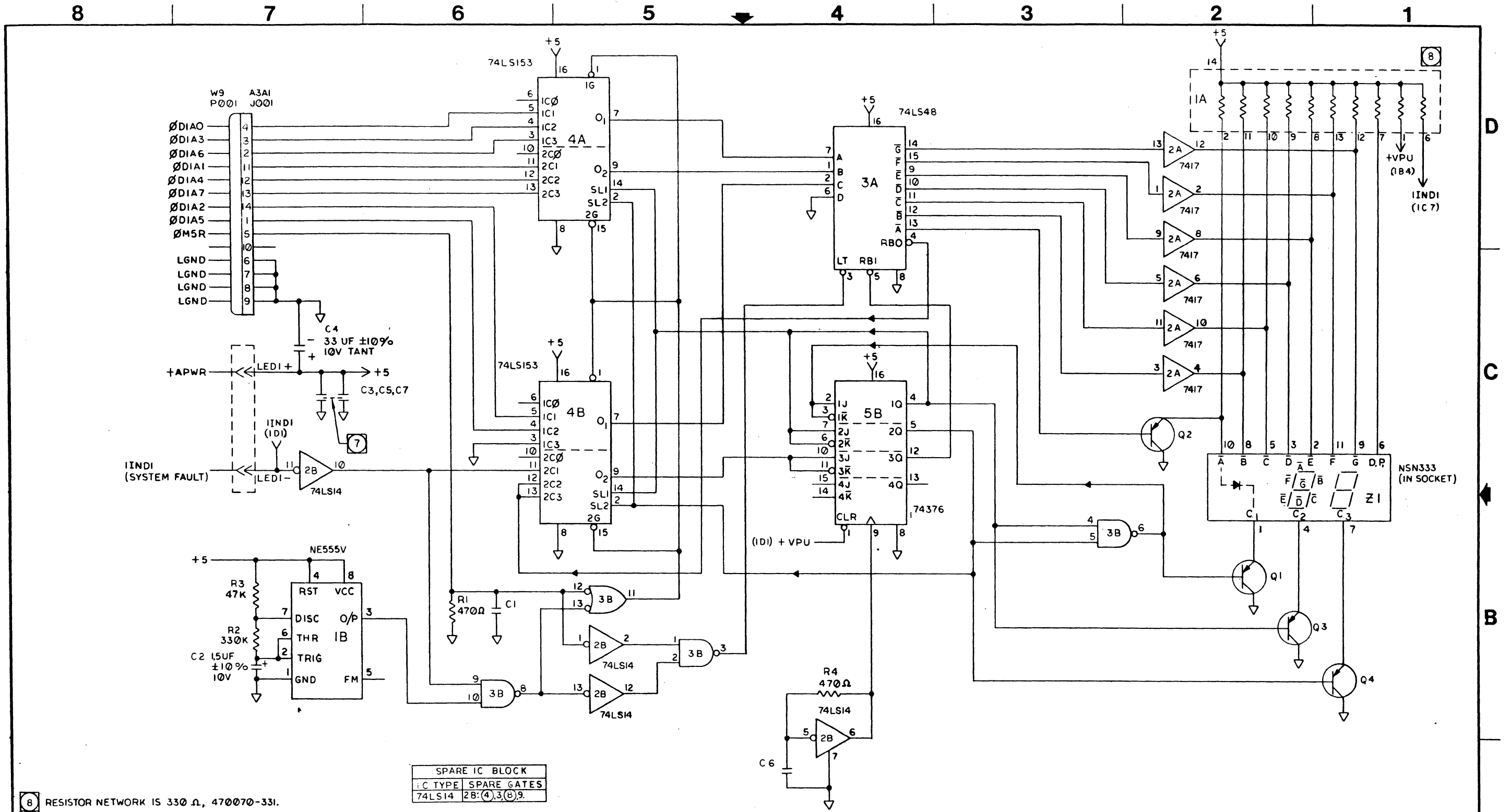
SKEW BUFFER



CHARACTER TIME COUNTER



1 OF 9 DATA CHANNEL DECODER-DESKEWER (CHAN 7)

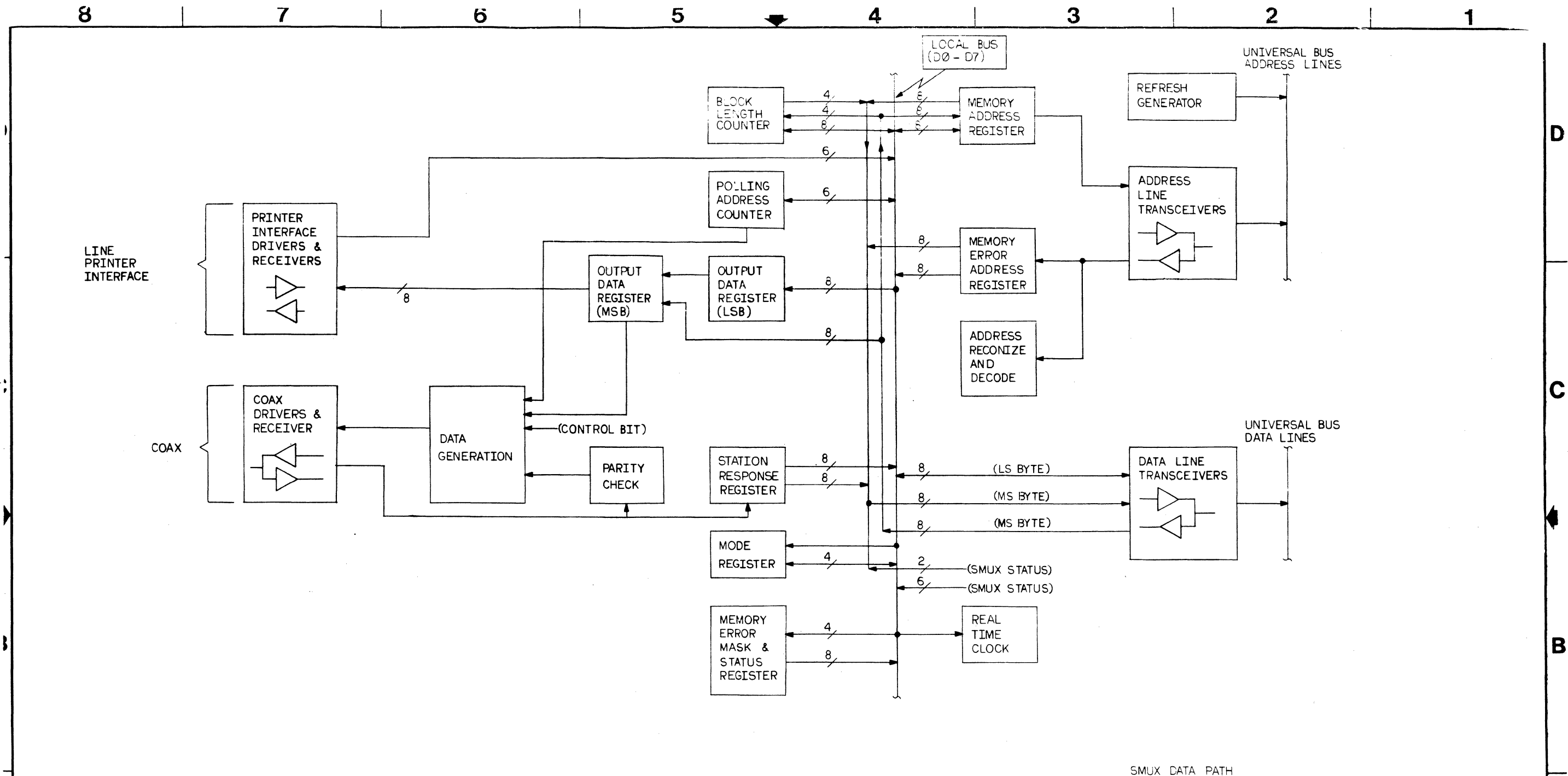


- 8 RESISTOR NETWORK IS 330 Ω, 470070-331.
  - 7 3 CAPACITORS DISTRIBUTED OVER PCB.
  - 6
  - 5.
  - 4. ALL 2 INPUT GATES ARE 74LS00.
  - 3. ALL TRANSISTORS ARE 2N2907.
  - 2. ALL CAPACITORS ARE 0.05 UF, -20%, +80%, 10V, CERAMIC.
  - 1. ALL RESISTORS ARE ±10%, 1/4 WATT.
- NOTES: UNLESS OTHERWISE SPECIFIED

SPARE IC BLOCK	
IC TYPE	SPARE GATES
74LS14	2B: (4), 3, (8), 9.

REVISIONS				APPLICATION			
SYM	DESCRIPTION	DRFTG	APPVD	DATE	NEXT ASSY	QTY	MODEL
05	CODE 10 REL W/O CHANGE PER DCO 06424						
04	RELEASE PER DRO 333-76						
03	CODE 06 RELEASE WITH CHANGES, REVISED REF DESIGNATORS						
02	REVISED REF DESIGNATORS						
01	ADDED REF DESIGNATORS						
01	RELEASE PER DRO 153-76				260932		XL40

DRAWN	Bob Simmons	23 Mar 76	<b>PERTEC</b> BUSINESS SYSTEMS DIVISION TITLE <b>SCHEMATIC, DIAGNOSTIC DSPL</b>
CHECK	SCHUMAKER	3/29/76	
APPR	PK	3/17/76	
RELEASE	G. Brund	3/23/76	
THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR TRANSFERRED TO OTHERS OR USED FOR MANUFACTURING OR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN PERMISSION OF PERTEC BUSINESS SYSTEMS			CODE IDENT. NO. DC CODE <b>10</b>
SIZE <b>D</b>		DWG NO. <b>120940</b>	REV <b>05</b>
SCALE NONE		DO NOT SCALE DWG	SHEET OF 1



SMUX DATA PATH

REV	DESCRIPTION	DRFTG	APP'D	DATE	NEXT ASSY	QTY	MODEL	QTY
12	INCORP DCO 10613	BM	7/25/80	4/1/80				
11	INCORP DCO 10438	BM	4/13/80					
10	INCORP DCO 08708	TCR	8/8	7/1/79				
09	INCORP DCO 08759	TAP	8/8	7/2/79				
08	INCORP DCO 05457	BM	12/28	7/1/79				
07	INCORP DCO 07125	BM	4/13/80					
06	CODE IS REL W/O CHANGE PER DCO 06424	BM	7/25/80					
05	INCORP DCO 05337	DART	7/25/80					
03	INCORP DCO 05009	BM	7/25/80					
02	INCORP DCO 04424	BM	7/25/80					

REV	STATUS	SHEET	1	2	3	4	5	6	7	8	9	10	11
12	09	09	10	10	09	09	11	12	10	10			

PERTEC BUSINESS SYSTEMS DIVISION

TITLE: SC-EM PCBA STATION MULTIPLEXER (SMUX)

CODE IDENT NO: D 123932

SIZE: 123932

REV: 12

SCALE: DO NOT SCALE DWG

SHEET 1 OF 12

NOTES: UNLESS OTHERWISE SPECIFIED

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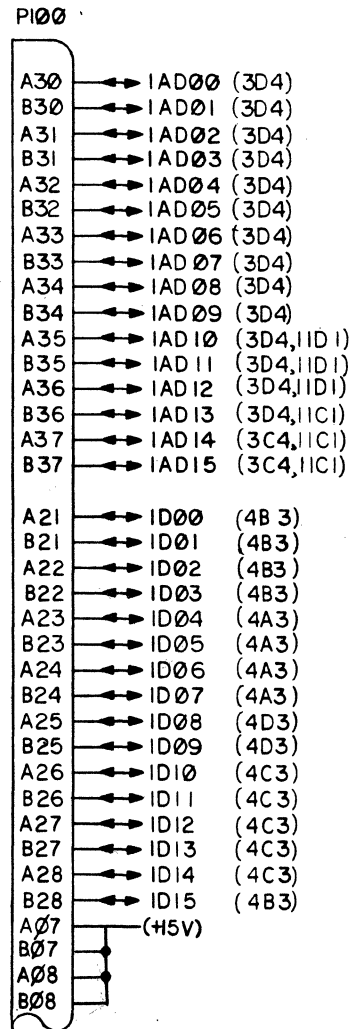
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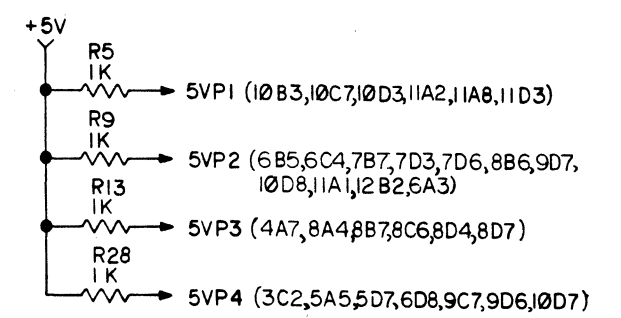
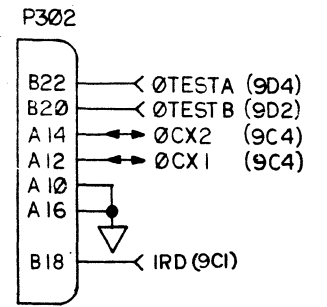
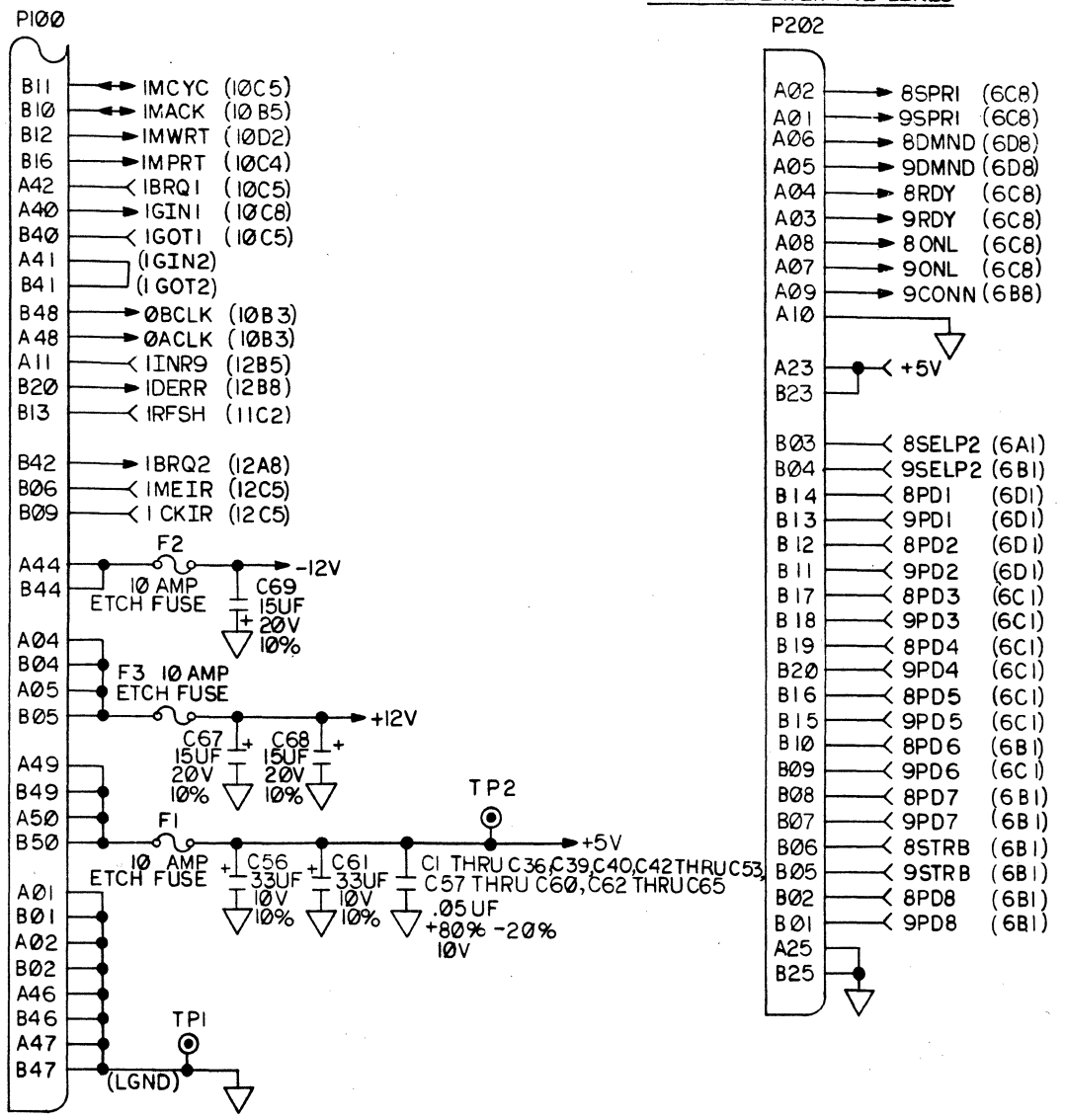
UNIVERSAL BUS LINES



SPARE IC GATES (OUTPUTS CIRCLED)

74LS00	10D	1 2 (3)
	22C	(1) 12 13
7404	4A	(8) 9 (10) 11 (12) 13
74S04	6E	5 (6) (8) 9
74LS04	1B	1 (2) 3 (4) 5 (6) (10) 11
	13D	(12) 11
74S08	11C	(8) 9 (10)
	11E	(8) 9 (10) (11) 12 13
74LS08	2D	(11) 12 13
74LS14	9F	1 (2) 3 (4) 5 (6) (12) 13
7438	10J	(8) 9 (10)
	11J	4 5 (6)
74109	11D	(9) (17) 11 12 13 14 15
	21C	(9) (17) 11 12 13 14 15
74125	12C	1 2 (3)
	22C	1 - (3) 4 5 (6)

PRINTER INTERFACE LINES



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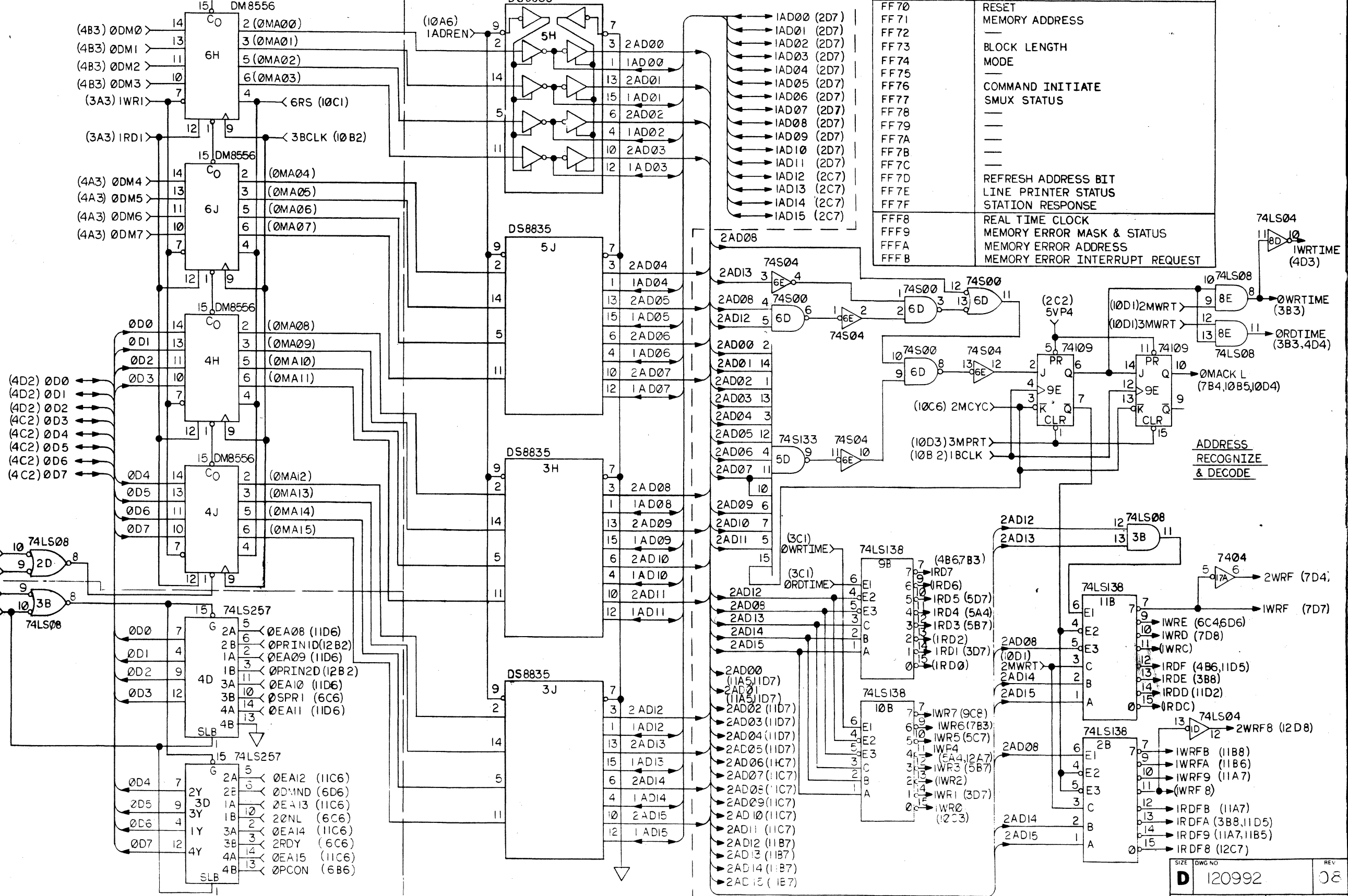
2

1

MEMORY ADDRESS REGISTER

ADDRESS LINE TRANSCEIVERS

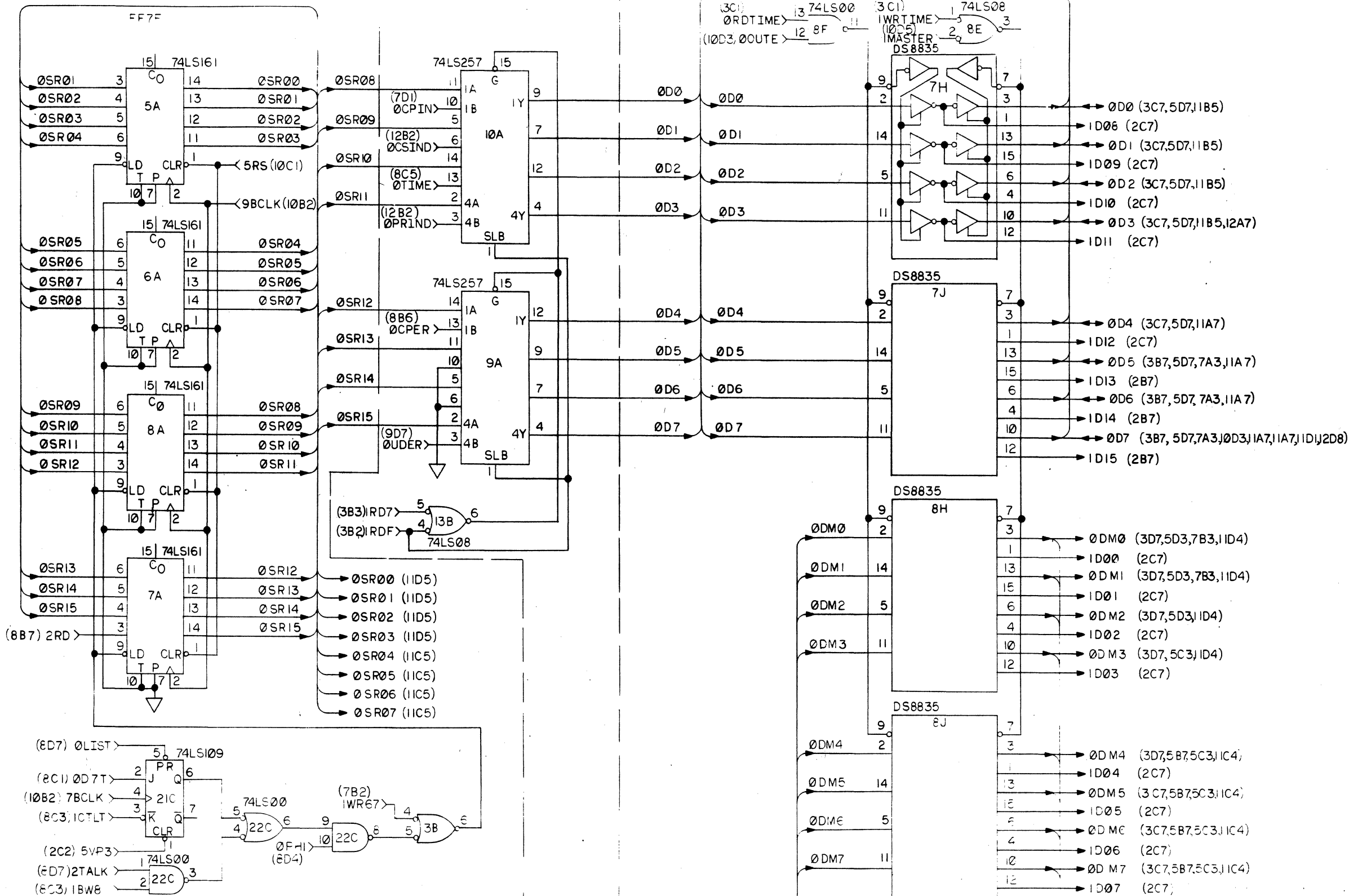
SMUX ADDRESS	FUNCTION
FF70	RESET
FF71	MEMORY ADDRESS
FF72	—
FF73	BLOCK LENGTH
FF74	MODE
FF75	—
FF76	COMMAND INITIATE
FF77	SMUX STATUS
FF78	—
FF79	—
FF7A	—
FF7B	—
FF7C	—
FF7D	REFRESH ADDRESS BIT
FF7E	LINE PRINTER STATUS
FF7F	STATION RESPONSE
FFF8	REAL TIME CLOCK
FFF9	MEMORY ERROR MASK & STATUS
FFFA	MEMORY ERROR ADDRESS
FFFB	MEMORY ERROR INTERRUPT REQUEST



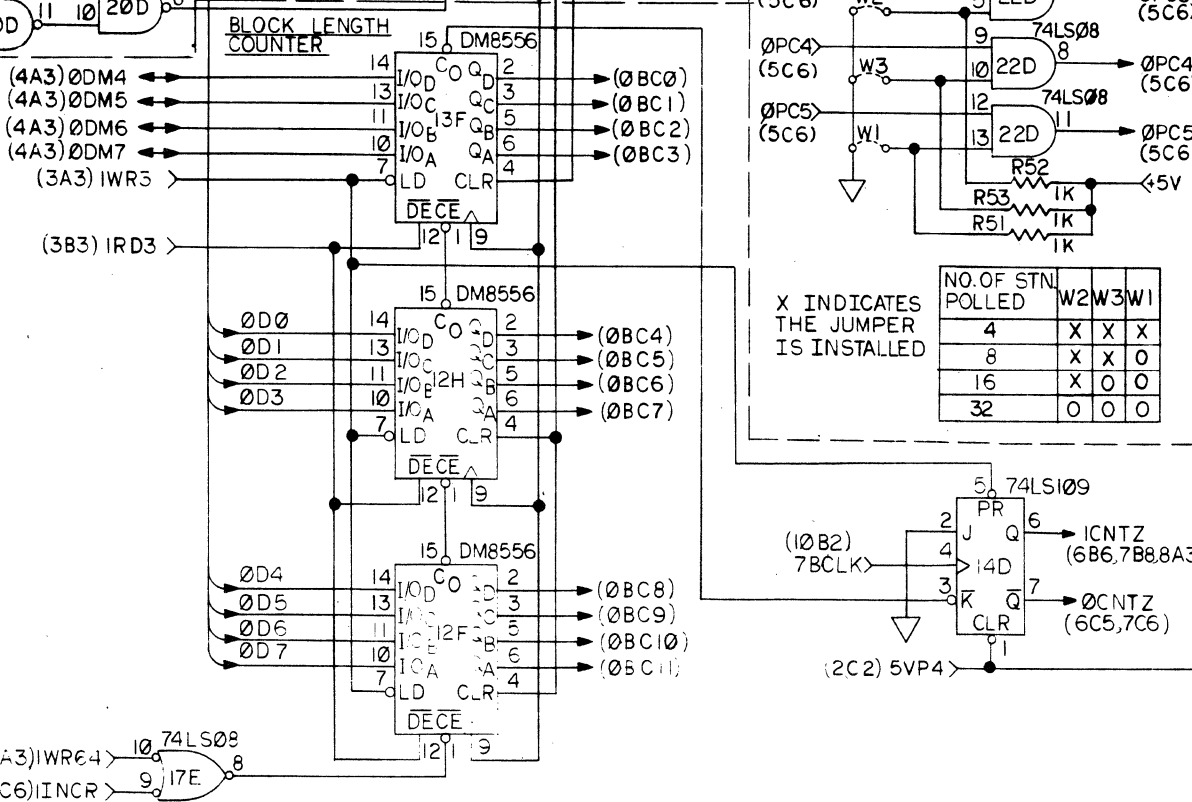
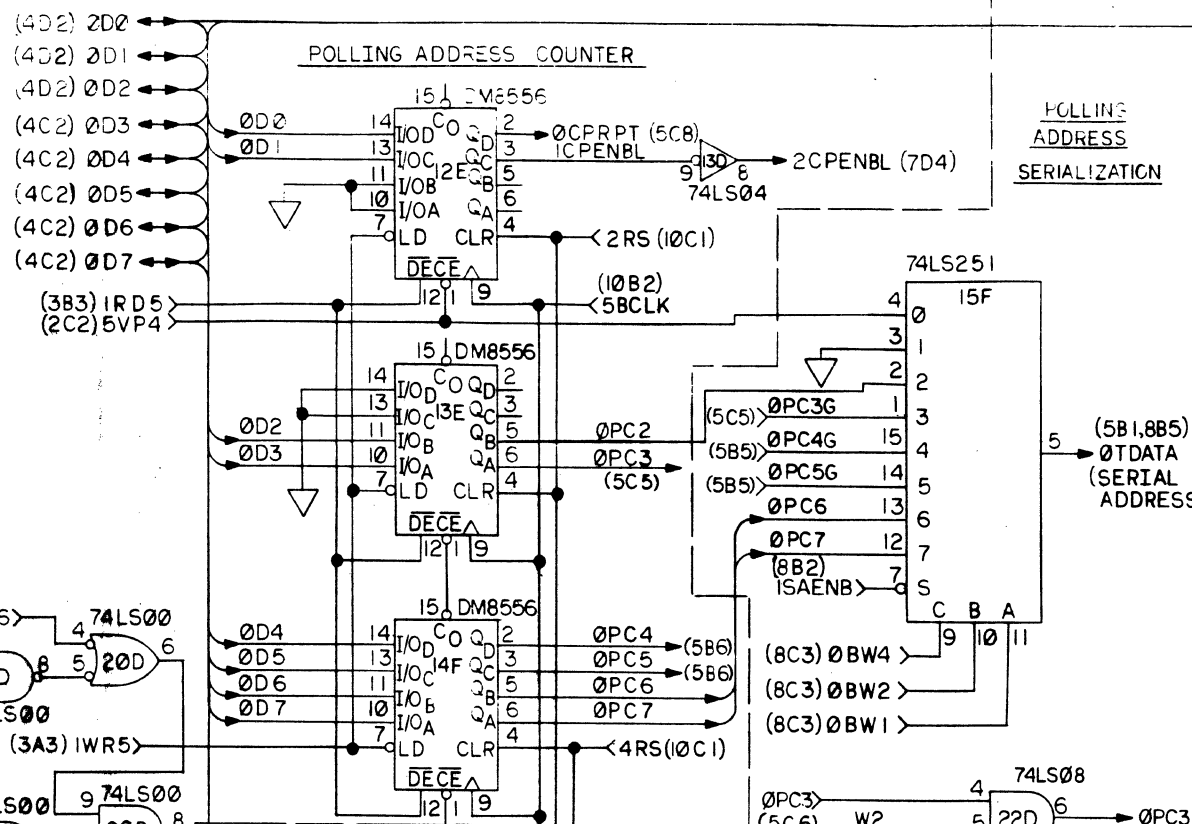
STATION RESPONSE REGISTER

RESPONSE MULTIPLEXER

DATA LINE TRANSCEIVERS

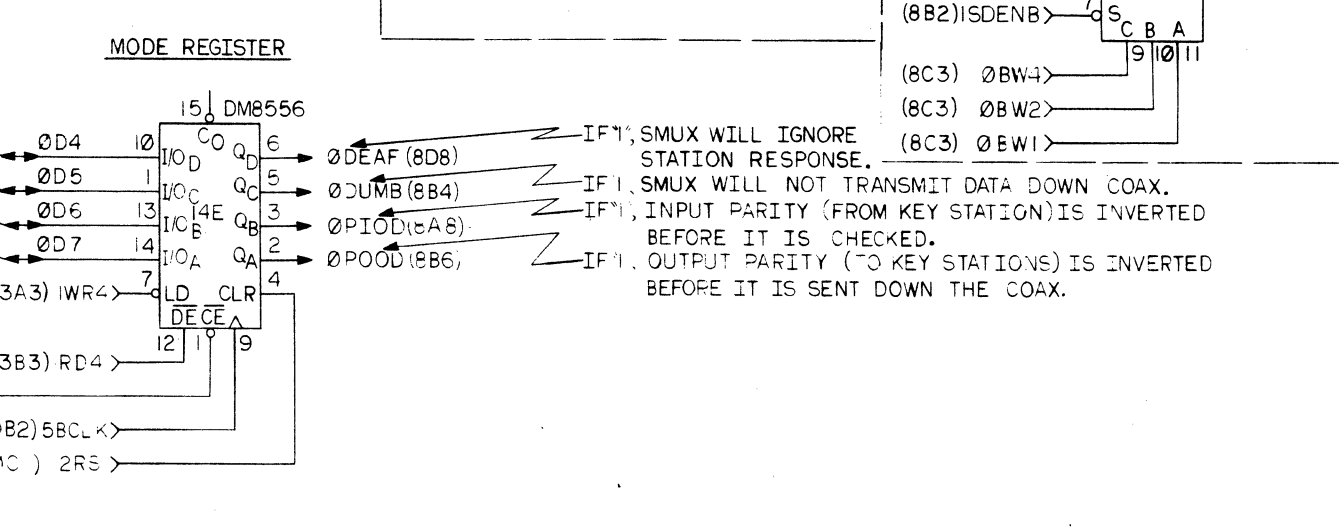
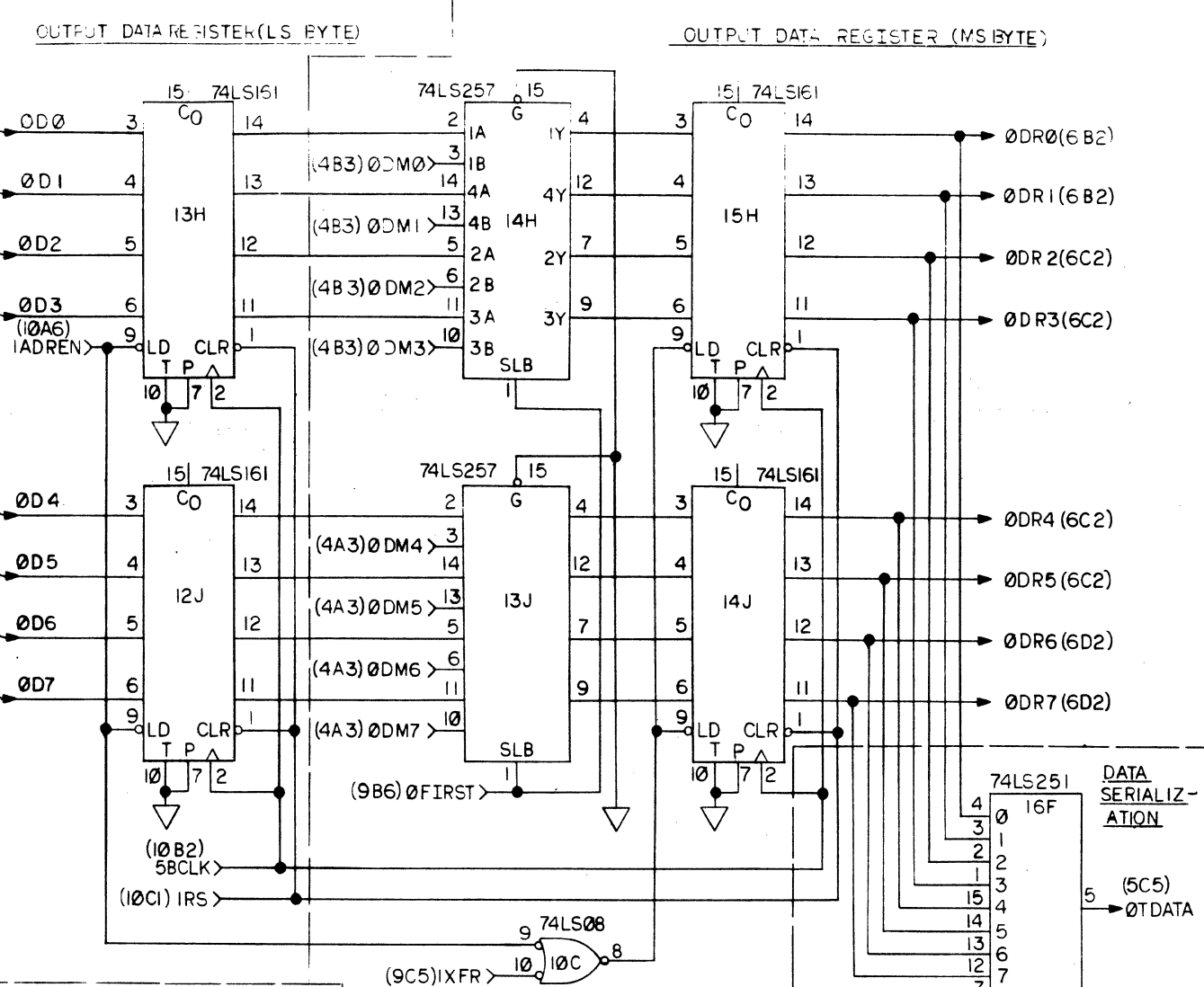






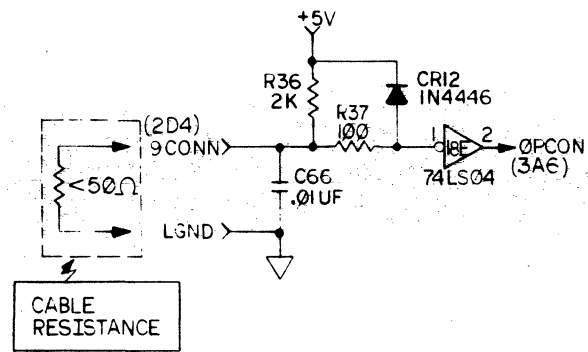
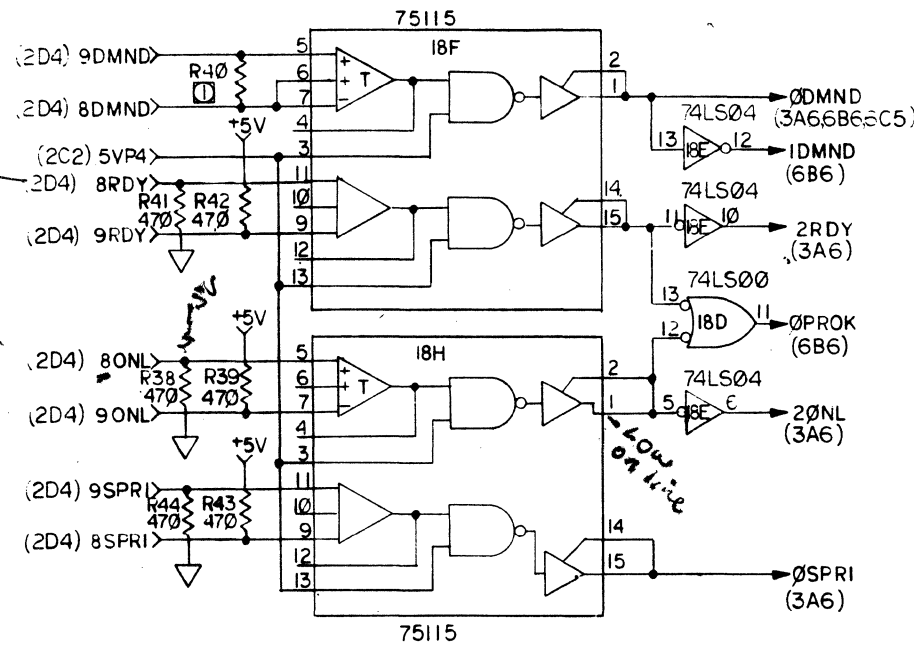
X INDICATES THE JUMPER IS INSTALLED

NO. OF STN. POLLED	W2	W3	W1
4	X	X	X
8	X	X	0
16	X	0	0
32	0	0	0



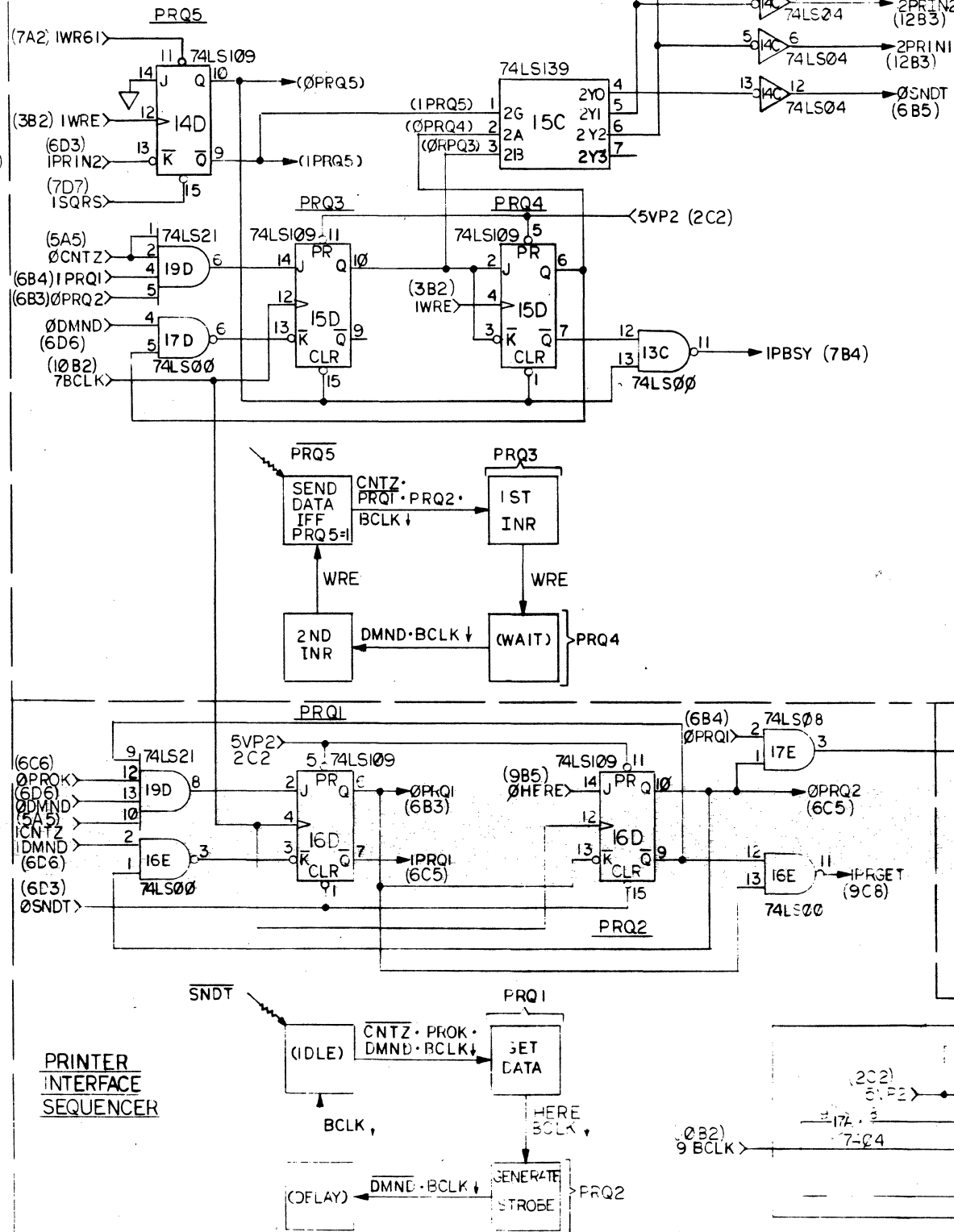
- IF '1', SMUX WILL IGNORE STATION RESPONSE.
- IF '1', SMUX WILL NOT TRANSMIT DATA DOWN COAX.
- IF '1', INPUT PARITY (FROM KEY STATION) IS INVERTED BEFORE IT IS CHECKED.
- IF '1', OUTPUT PARITY (TO KEY STATIONS) IS INVERTED BEFORE IT IS SENT DOWN THE COAX.

PRINTER INTERFACE RECEIVERS

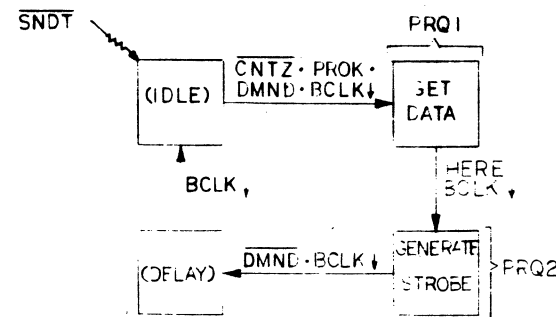


① PRC. IDE FOR OPTICAL CLOSE LINE IMPEDANCE MATCHING 1/4 W.

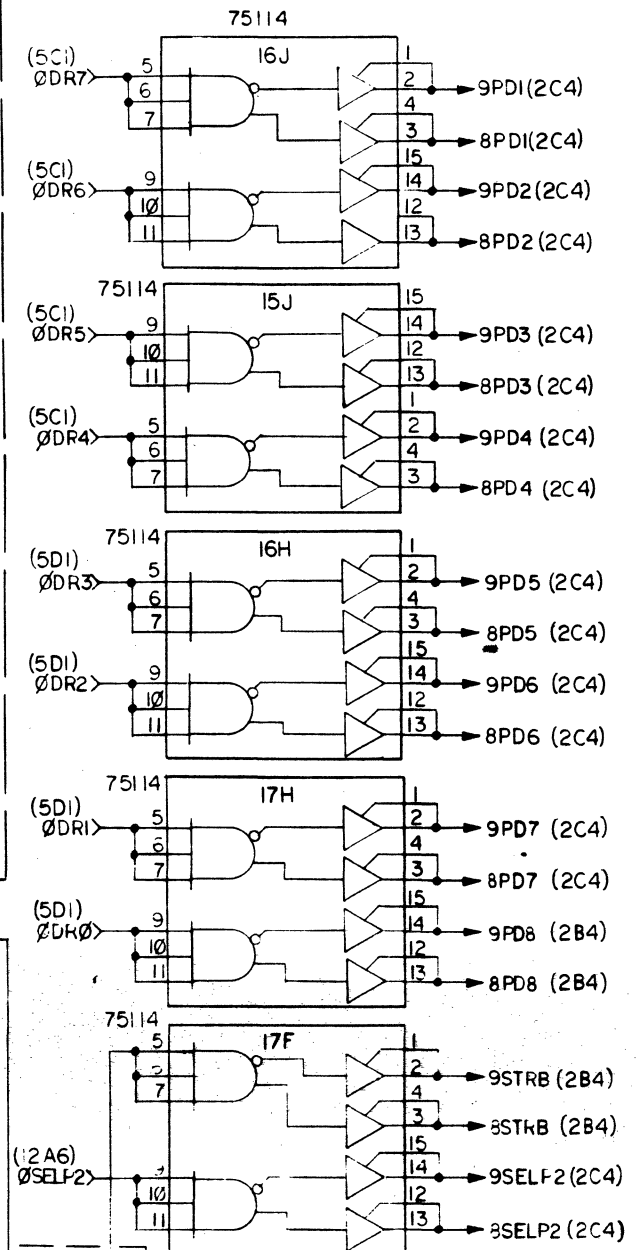
PRINTER OUTPUT SEQUENCER



PRINTER INTERFACE SEQUENCER



PRINTER INTERFACE DRIVERS



8

7

6

5

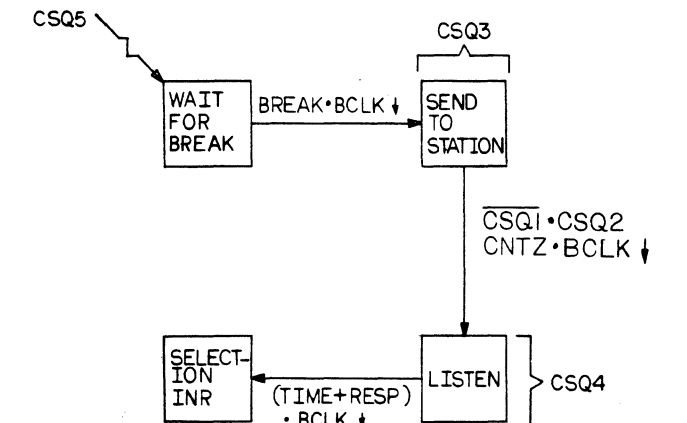
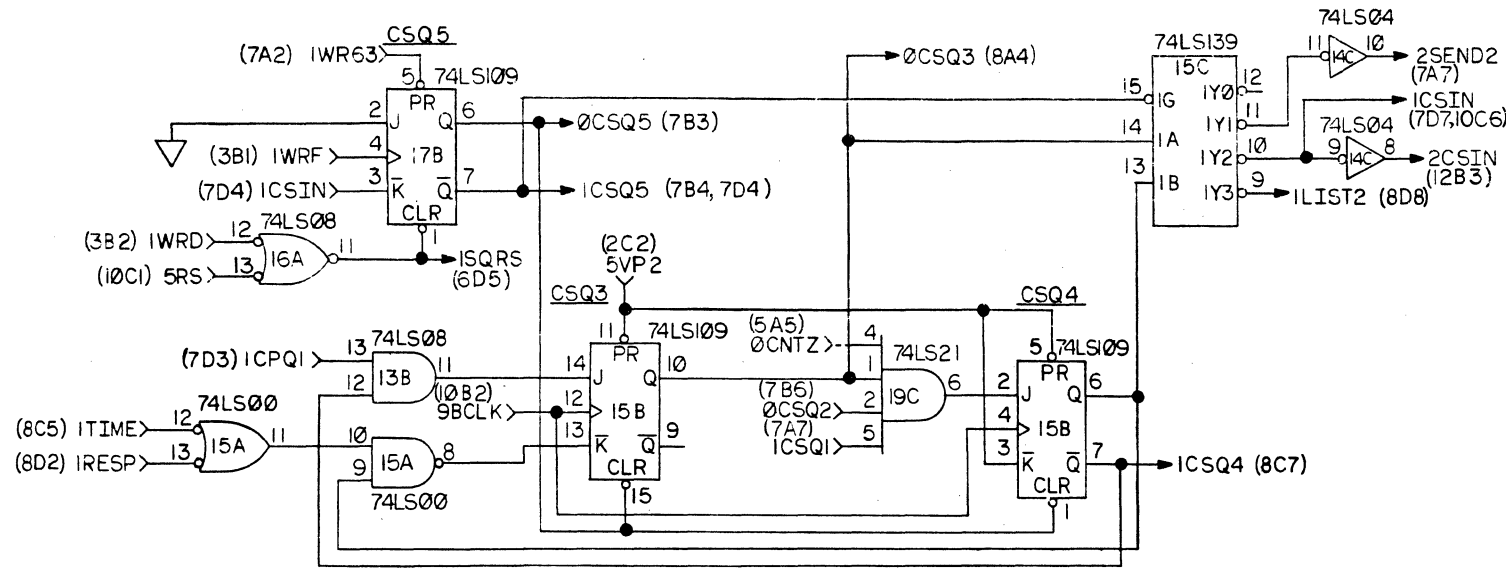
4

3

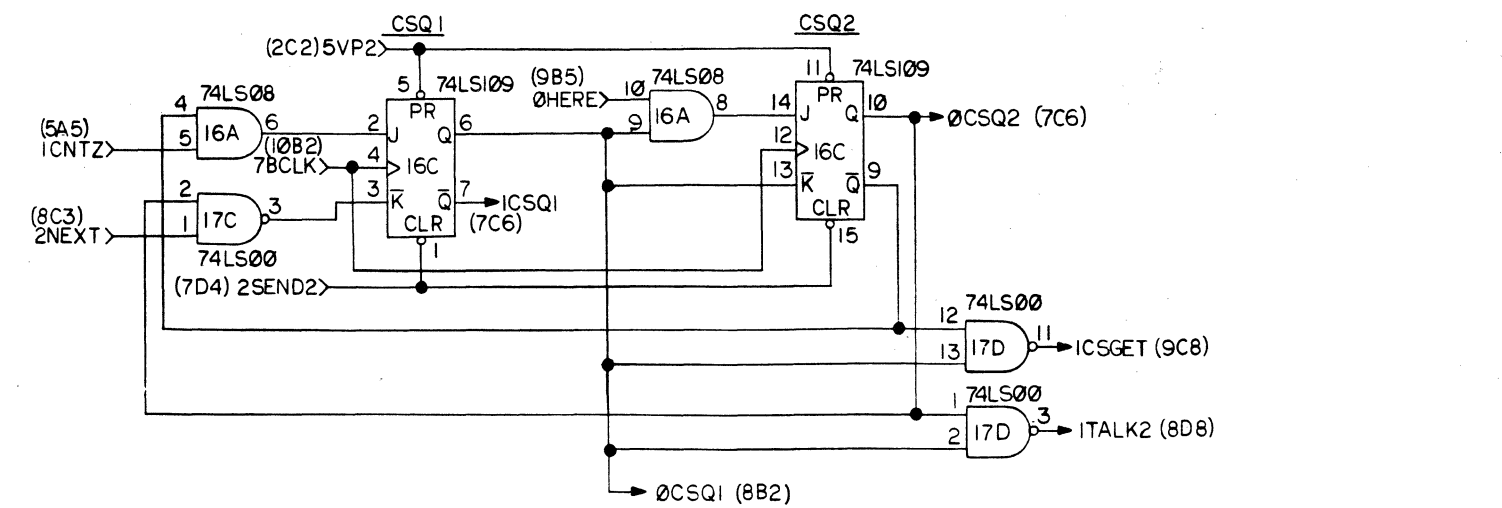
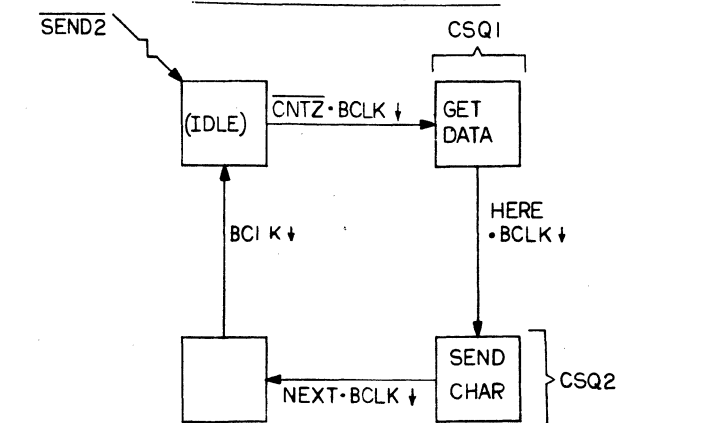
2

1

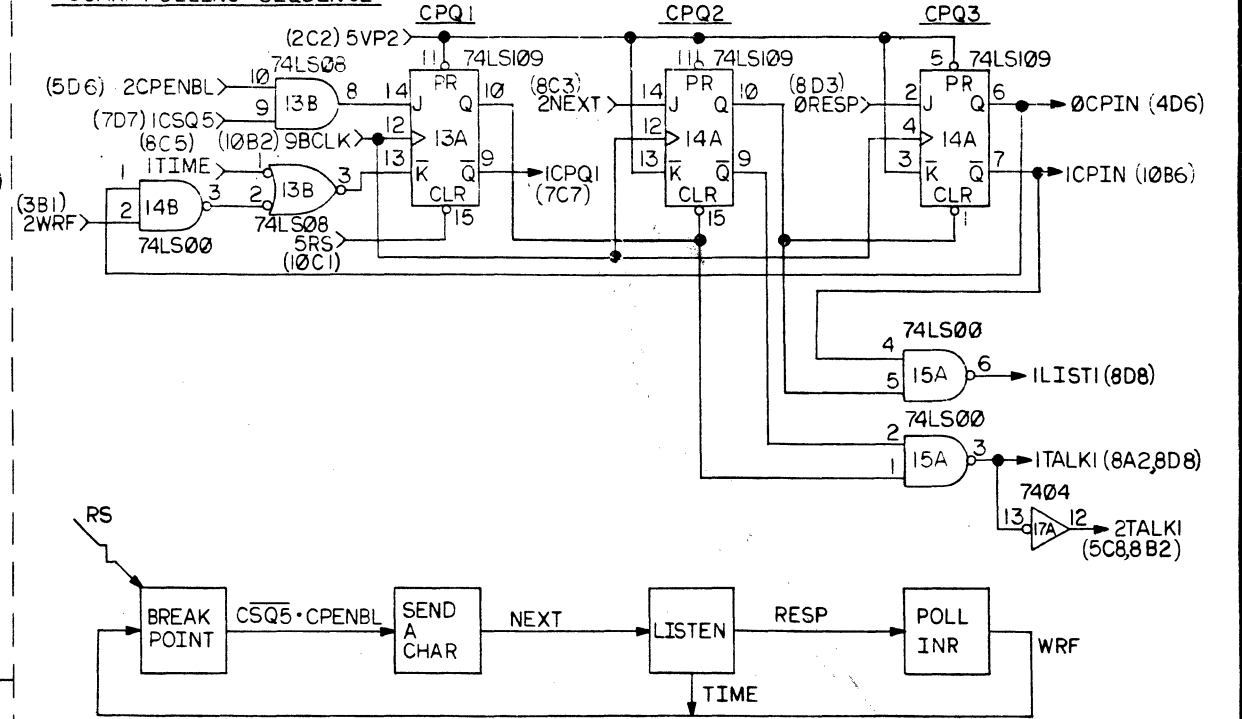
COAX SELECTION SEQUENCER



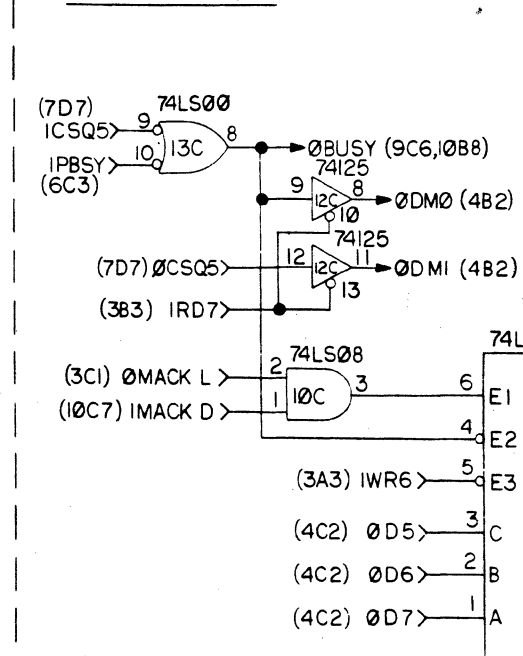
COAX OUTPUT SEQUENCER



COAX POLLING SEQUENCE



COMMAND DECODE



COMMAND TABLE	
ACTIVE SIGNAL	ACTION
WR60	(NOT USED)
WR61	OUTPUT TO PRINTER
WR62	(NOT USED)
WR63	OUTPUT TO COAX DEVICES
WR64	INCREMENT BYTE COUNT
WR65	INCREMENT MEMORY ADDR
WR66	INCREMENT POLLING ADDR
WR67	SHIFT "DATA IN REG"

8

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3

1

COAX TIMING

(COUNT ENABLE)

(BIT INTERVAL GENERATOR)

(BIT COUNTER)

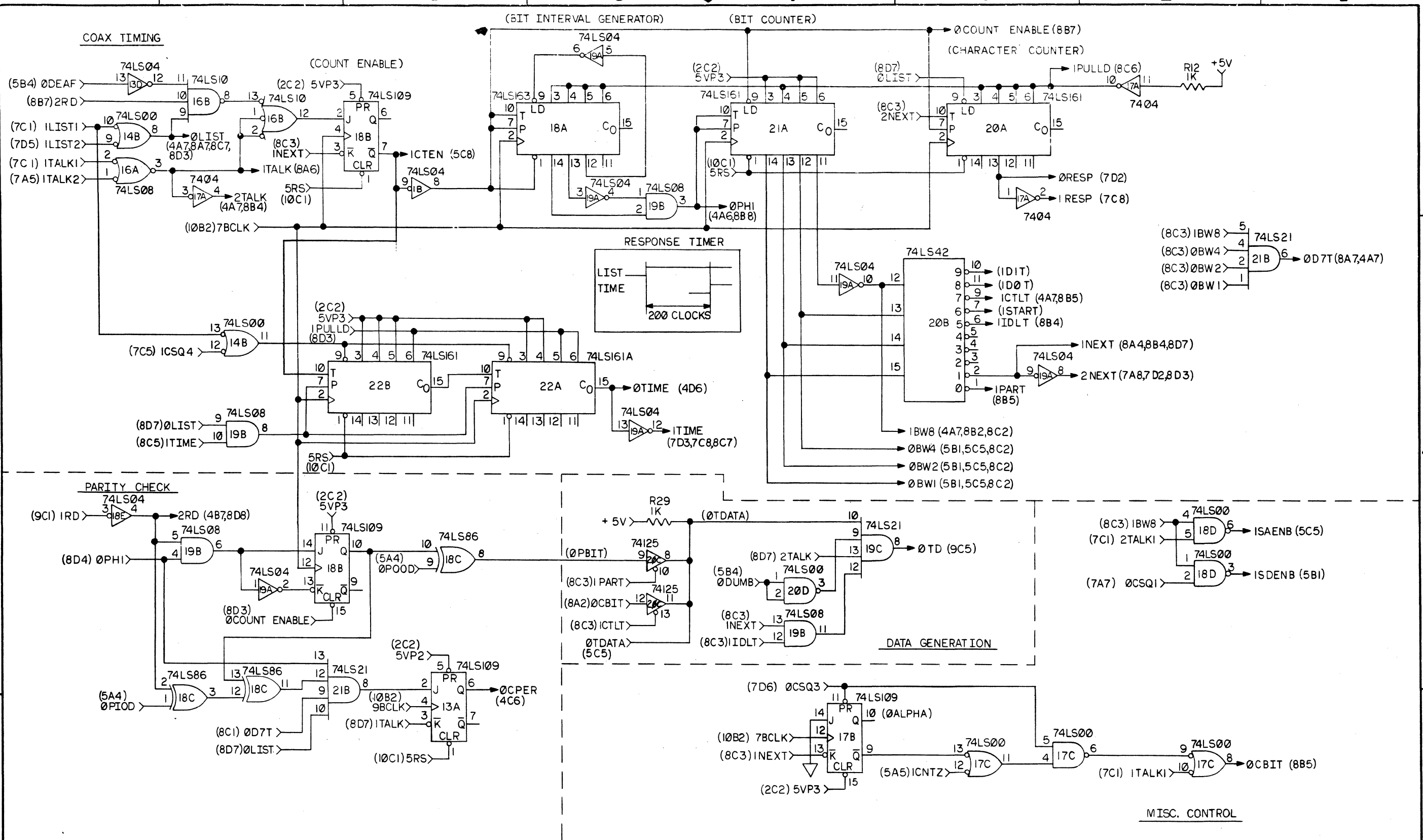
(CHARACTER COUNTER)

RESPONSE TIMER

PARITY CHECK

DATA GENERATION

MISC. CONTROL



SIZE	DWG NO	REV
D	120992	//
DO NOT SCALE DWG		SHEET 8

8

7

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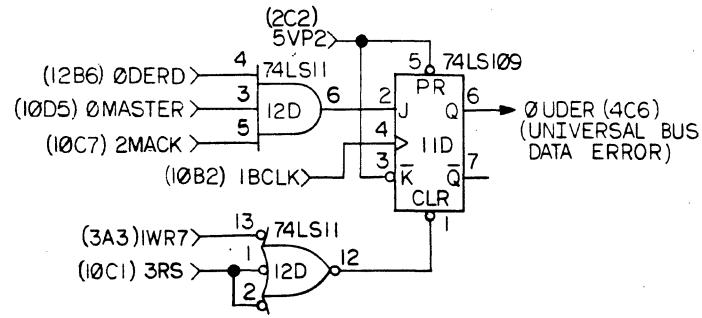
4

3

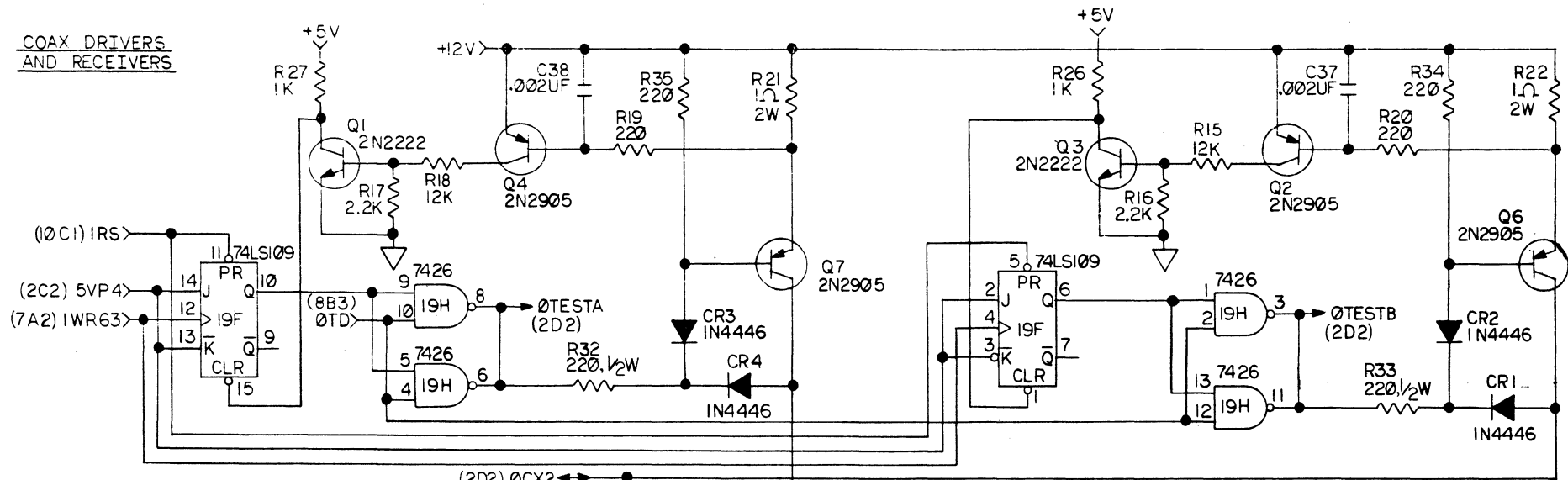
2

1

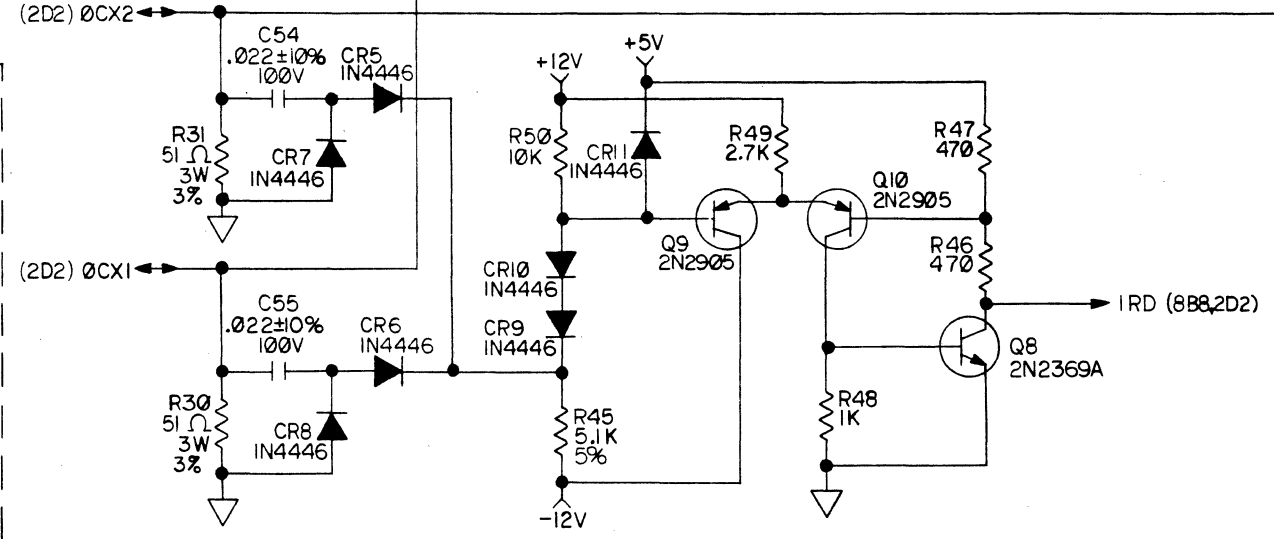
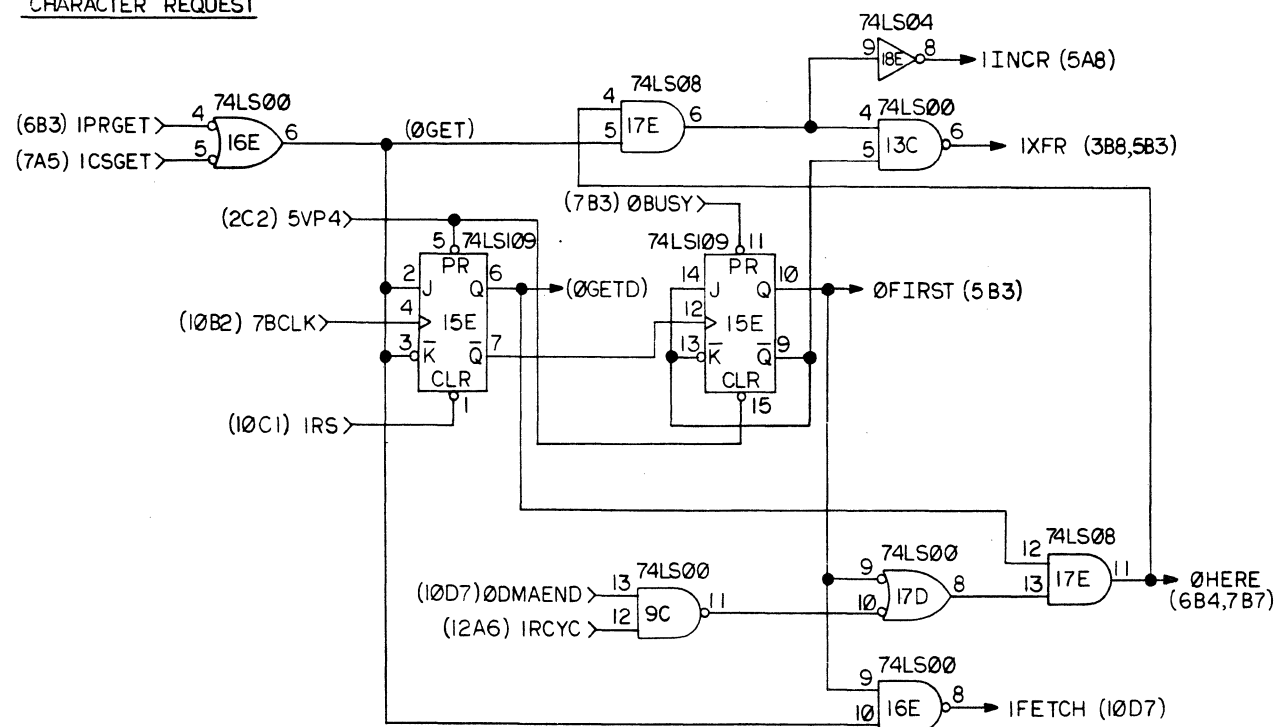
ERROR FLAG

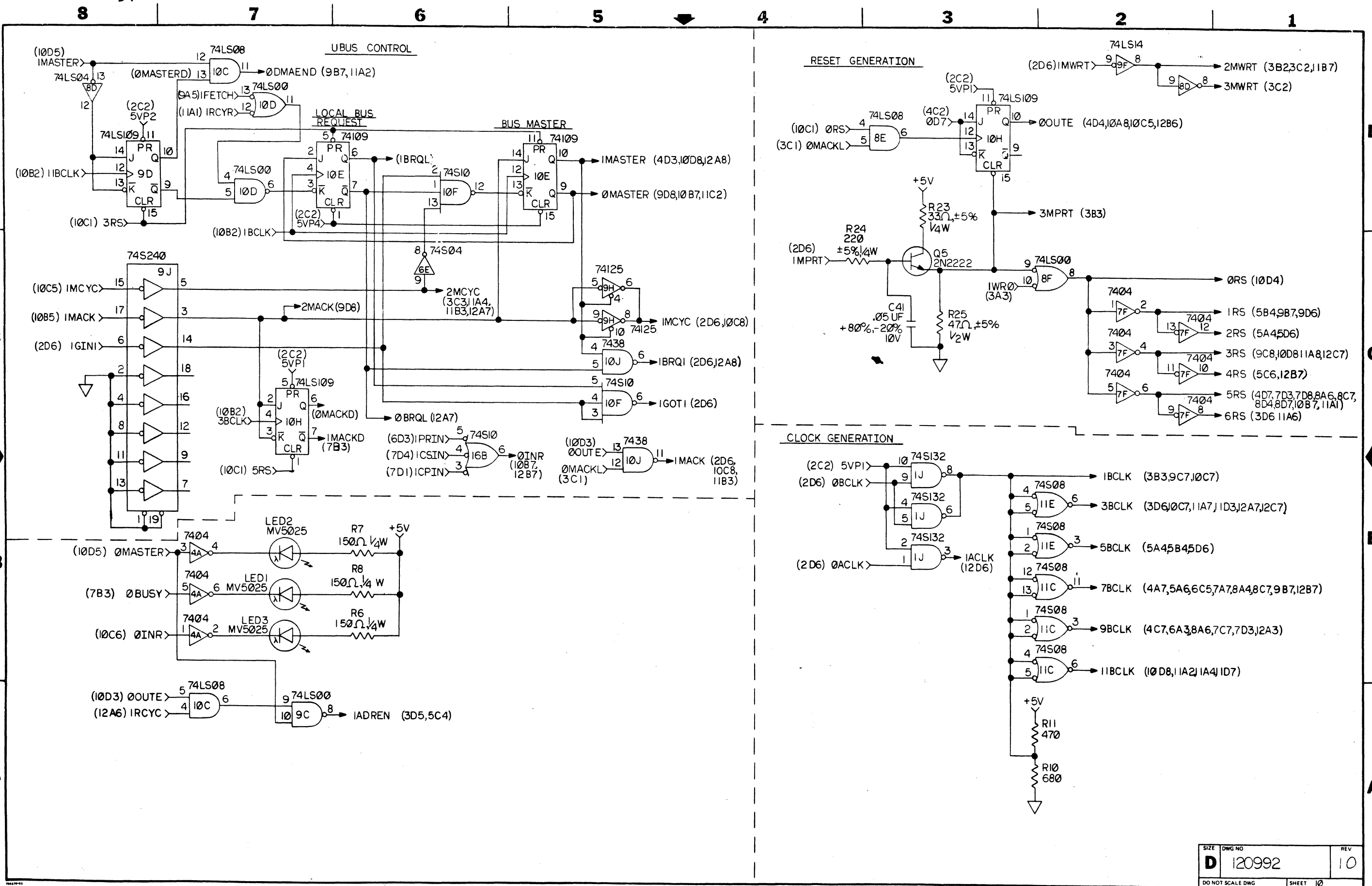


COAX DRIVERS AND RECEIVERS

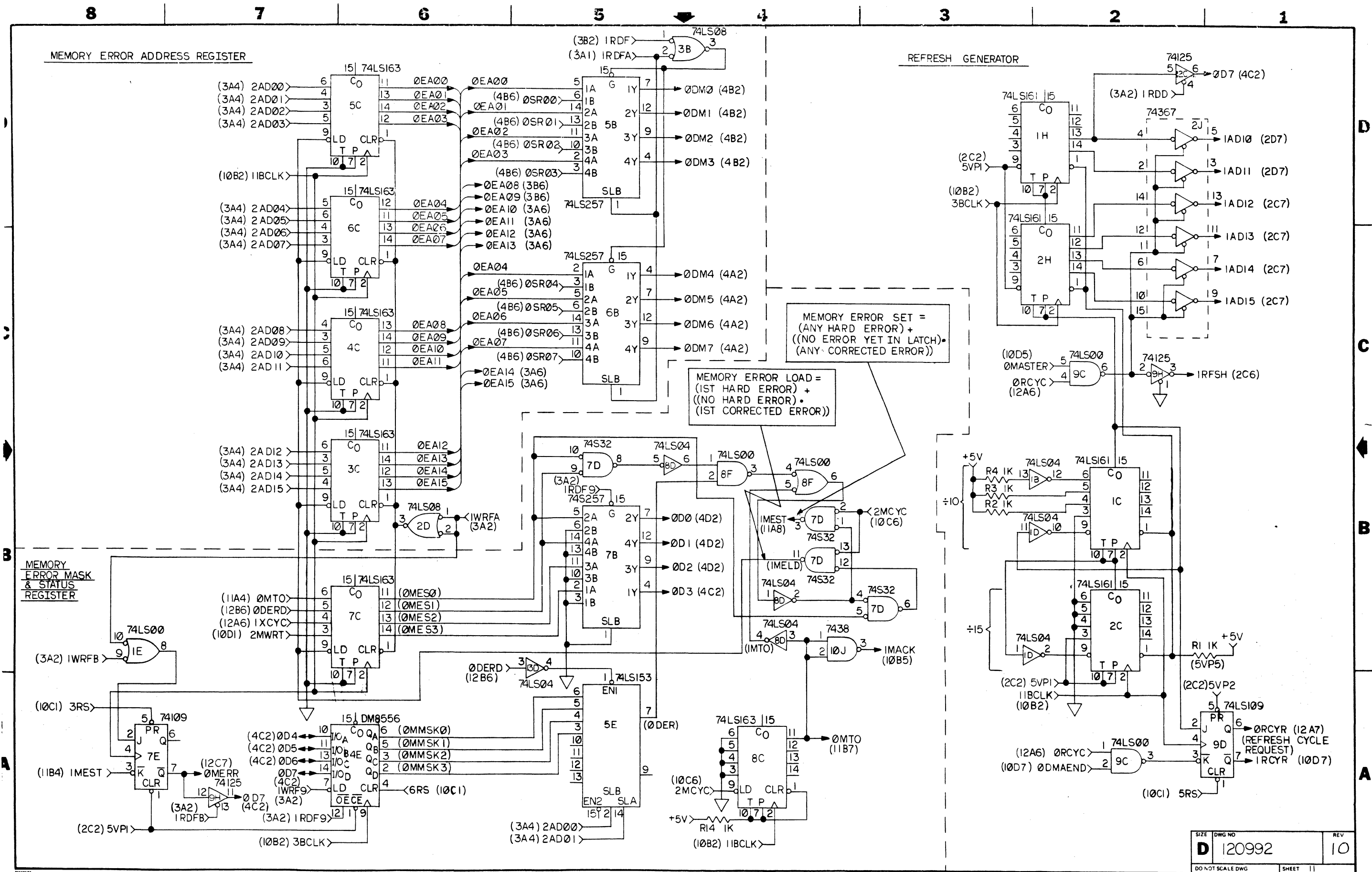


CHARACTER REQUEST

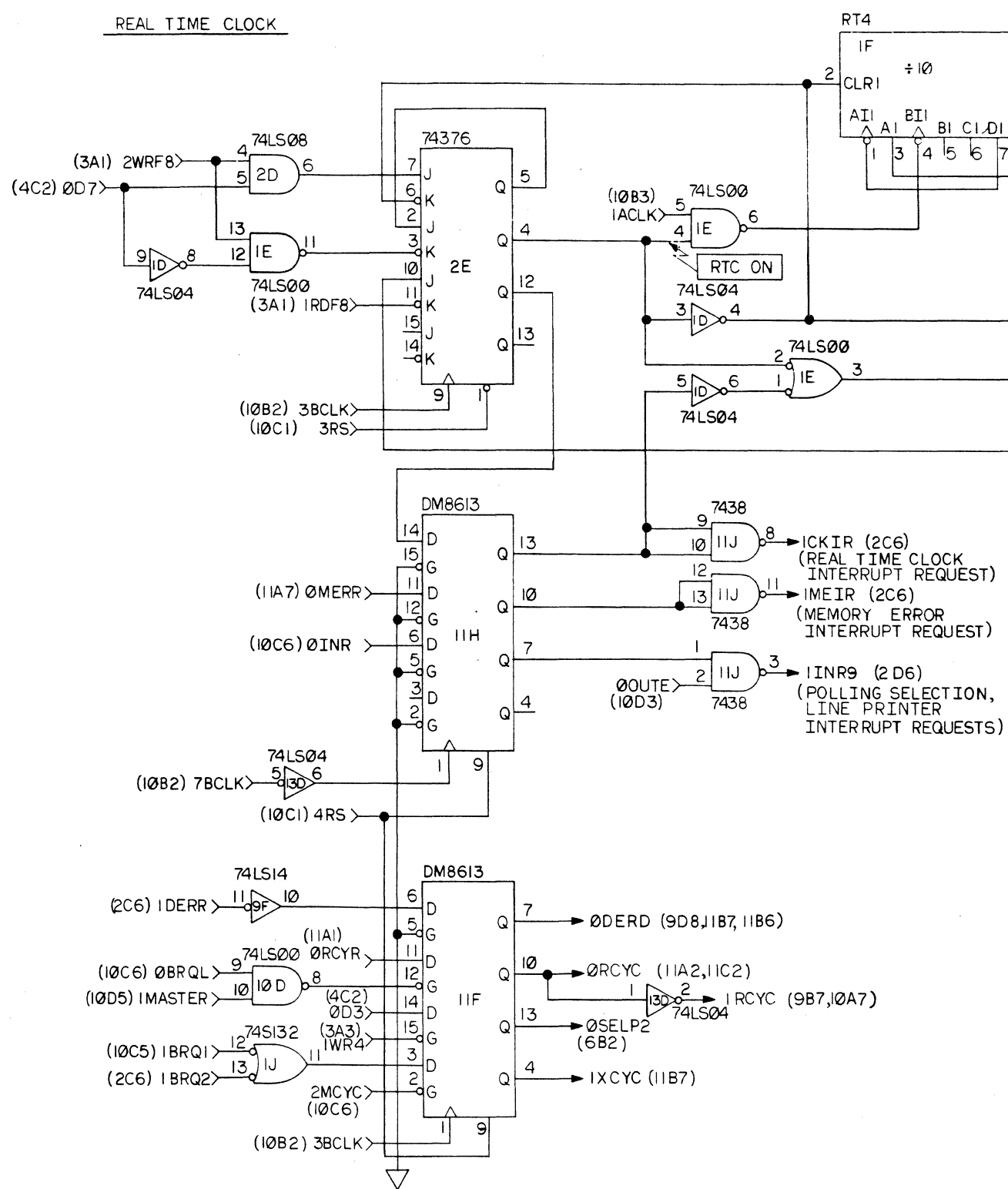




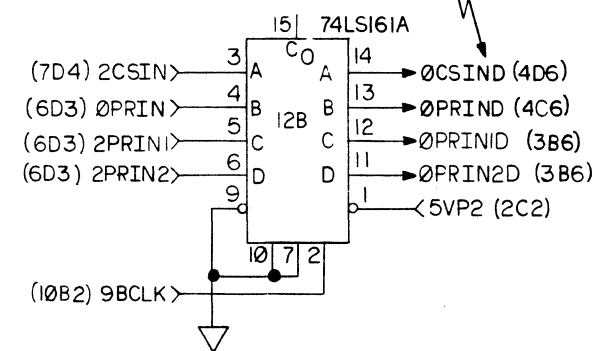
SIZE	DWG NO	REV
D	120992	10
DO NOT SCALE DWG		SHEET 10



REAL TIME CLOCK



SYNCHRONIZING REGISTER



THESE SIGNALS ARE RESYNCHRONIZED SO THAT THEY MEET THE SETUP TIMES WHEN THEY ARE ROUTED ONTO THE UNIVERSAL BUS





8

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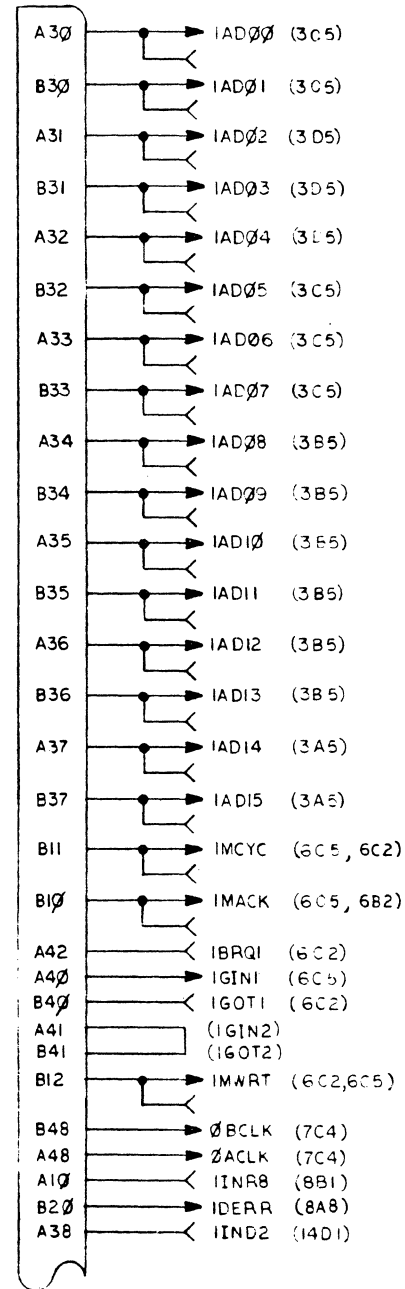
4

3

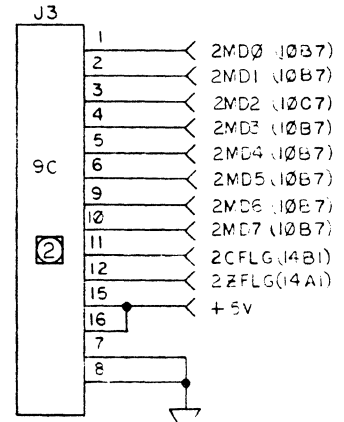
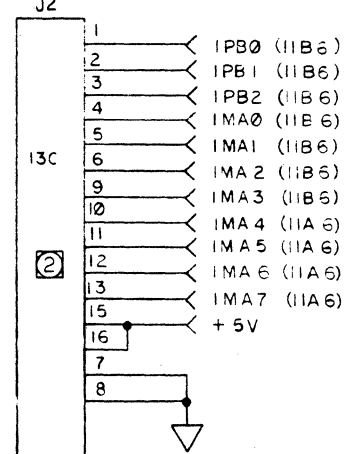
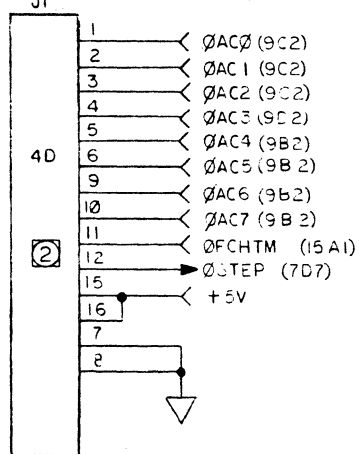
2

1

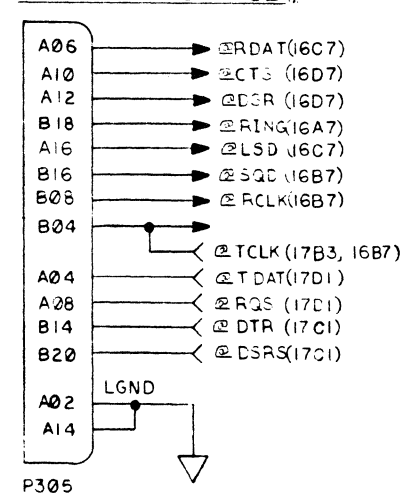
UNIVERSAL BUS LINES



MONITOR SIGNALS

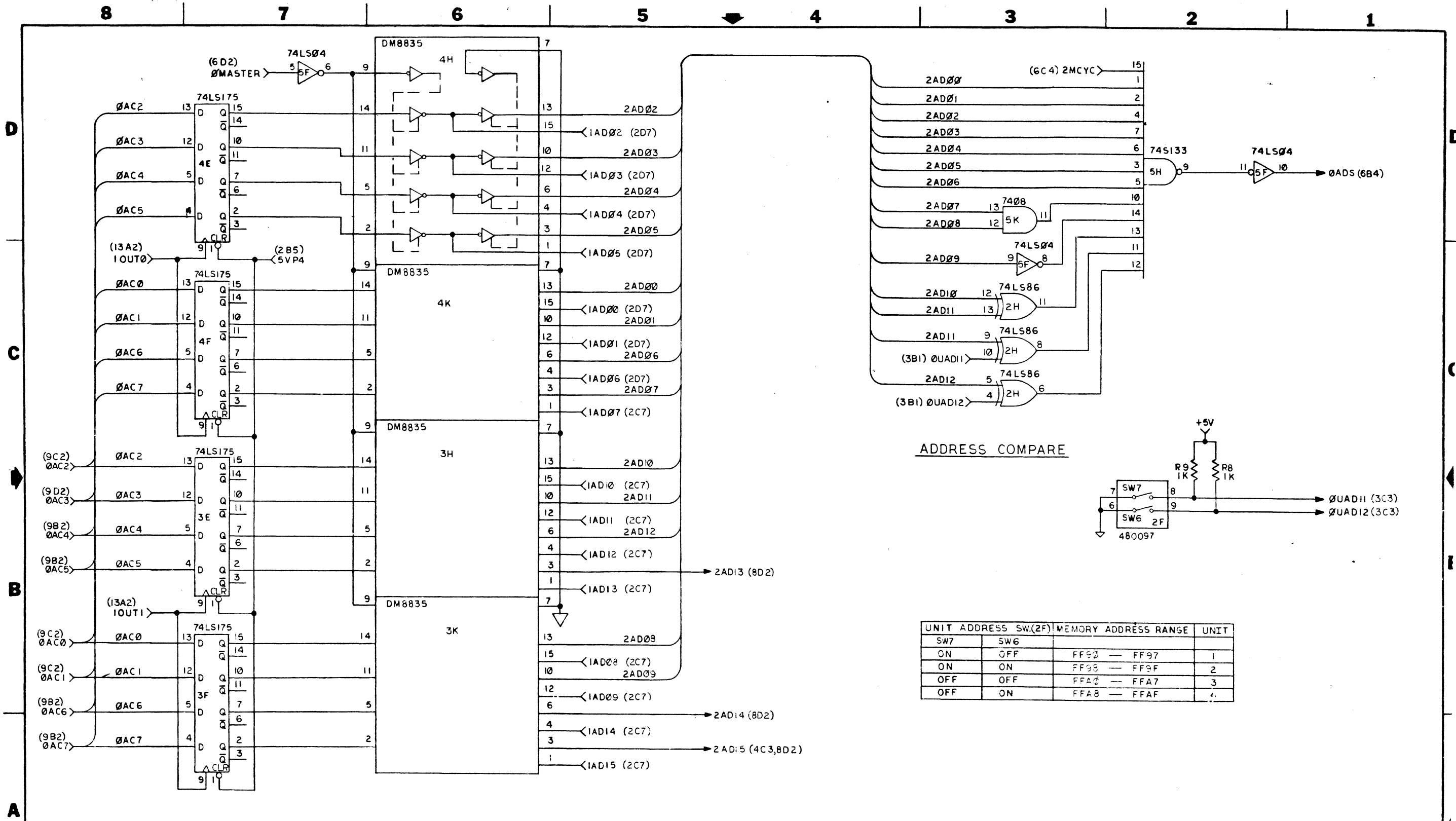


RS-232 INTERFACE



SPARE IC GATES (OUTPUTS CIRCLED)		
74LS00	17A, 2B, 15C	4, 5, ③, ⑧, ⑨, ⑩, ⑫, ⑬, ⑭, ⑮, ⑯
7402	5E	①, ②, 3 - ④, 5, 6 - 11, 12, ⑬
7404	1A, 3C, 5C, 8C	1, ②, 3, ④, 5, ⑥, ⑦, ⑧, ⑨, ⑩, ⑫, ⑬
74LS04	12D, 10E	1, ②, 1, ③ - ⑫, 13
7405	14H	1, ②, 3, ④, ⑤, ⑥, ⑦, ⑧, ⑨, ⑩, 11 - ⑫, 13
74LS08	15H	①, ⑫, 13
74S10		
74LS10	14F	1, 2, ③, 13 - ④, ⑤, ⑥, ⑦, ⑧, ⑨, ⑩, 11
74LS11	18B, 6D	③, ④, ⑤, 11, 1, 2, ③, 13
74LS20	18A	③, ④, ⑤, 12, 13
7439	2D, 17F	1, 2, ③ - ⑫, 13, 1, 2, ③ - ⑫, 13
74LS51	15F	2, 3, 4, 5, ⑥
74LS65	17C, 2H	1, 2, ③ - 4, 5, ⑥ - ⑫, 13 - 14, 1, 2, ③

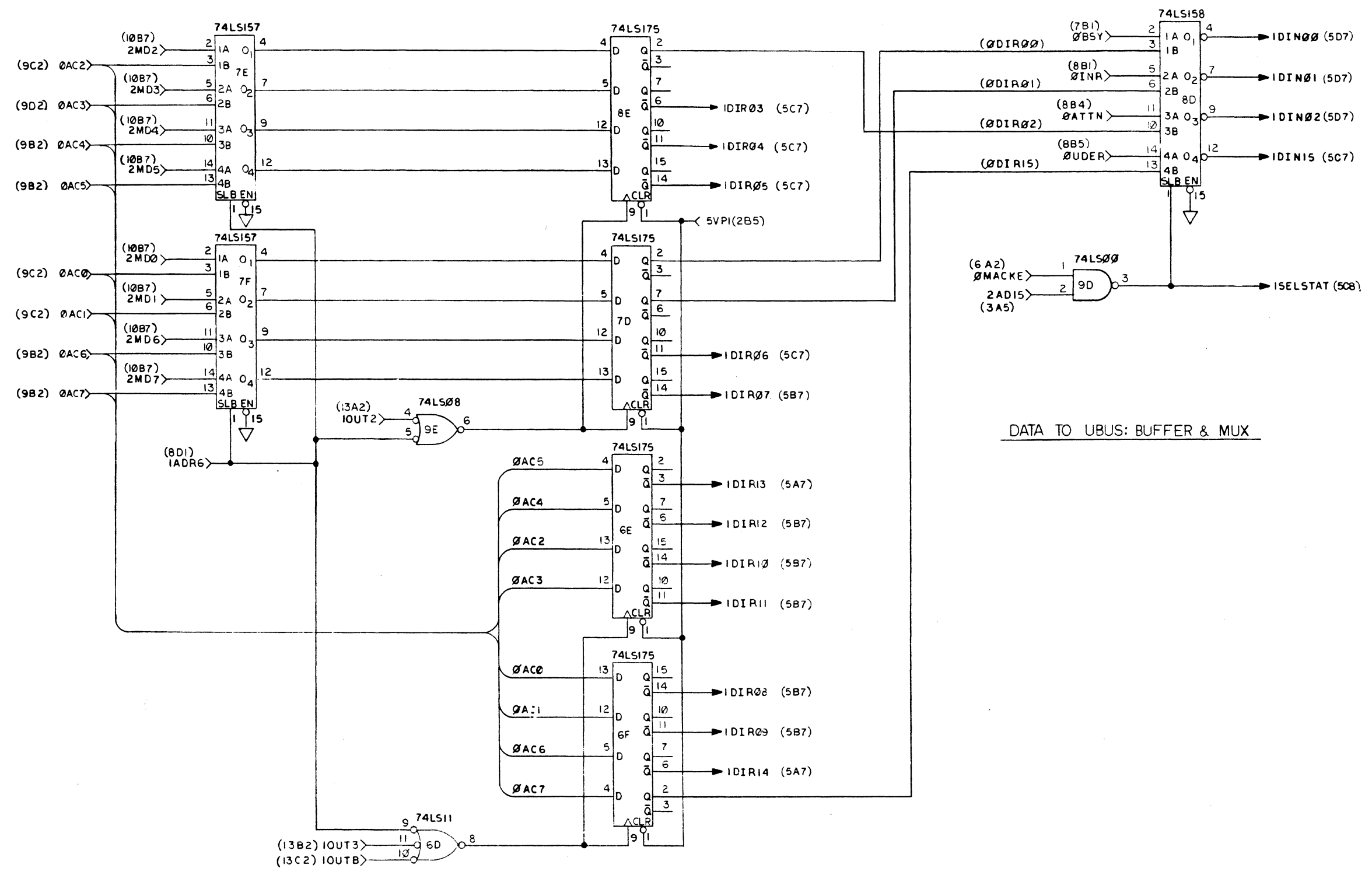
SPARE IC LOCATIONS 20A, 20D, 17H, 18H, 18K



ADDRESS BUFFER AND TRANSCEIVERS

ADDRESS COMPARE

UNIT	ADDRESS SW(2F)	MEMORY ADDRESS RANGE	UNIT
SW7	SW6		
ON	OFF	FF90 — FF97	1
ON	ON	FF98 — FF9F	2
OFF	OFF	FFA0 — FFA7	3
OFF	ON	FFA8 — FFAF	4



DATA TO UBUS: BUFFER & MUX

8

7

6

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1

DATA TRANSCEIVERS

DATA FROM UBUS BUFFER

DATA IN MUX

D

D

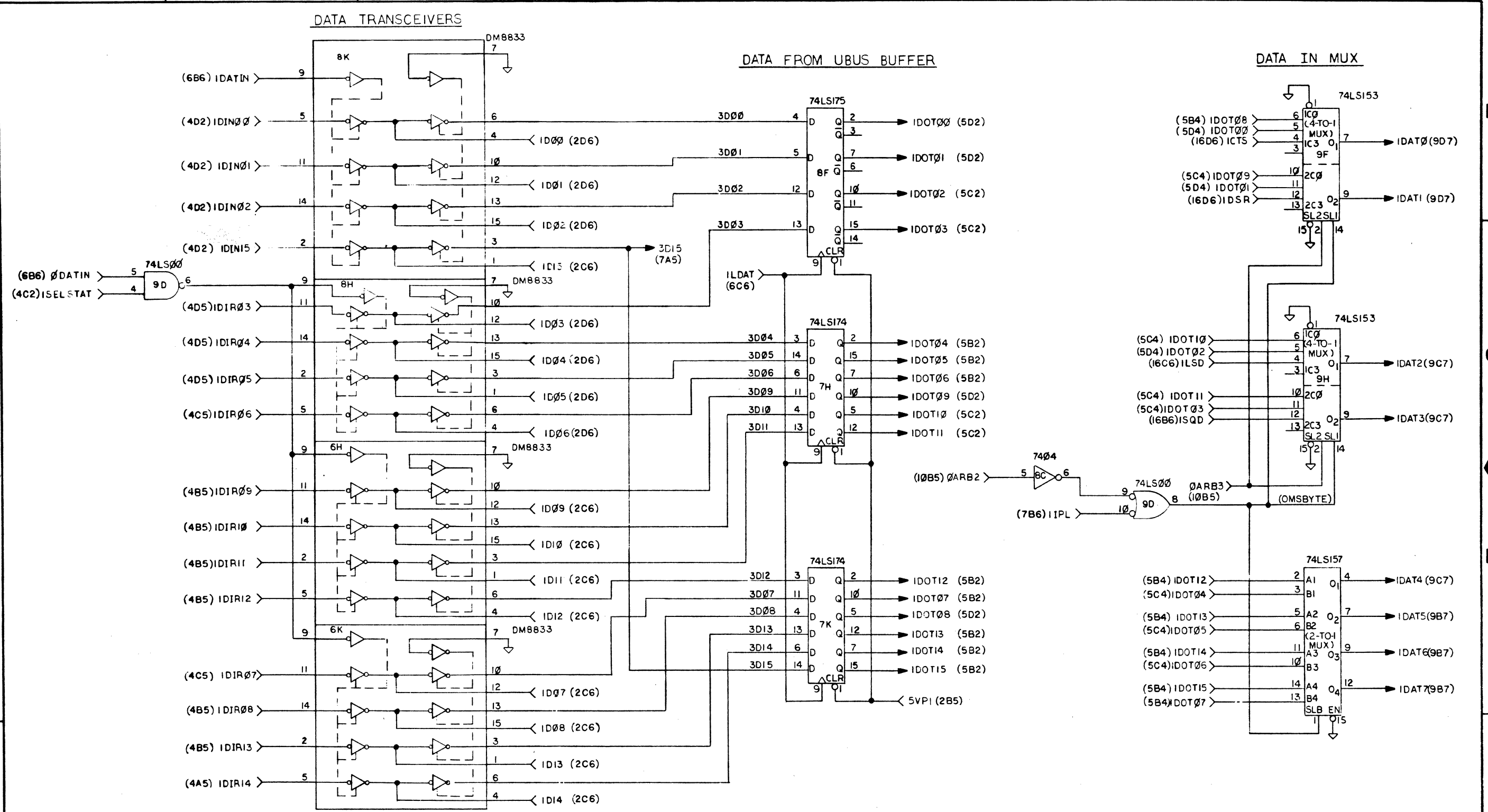
C

C

B

E

A



8

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2

1

D

D

C

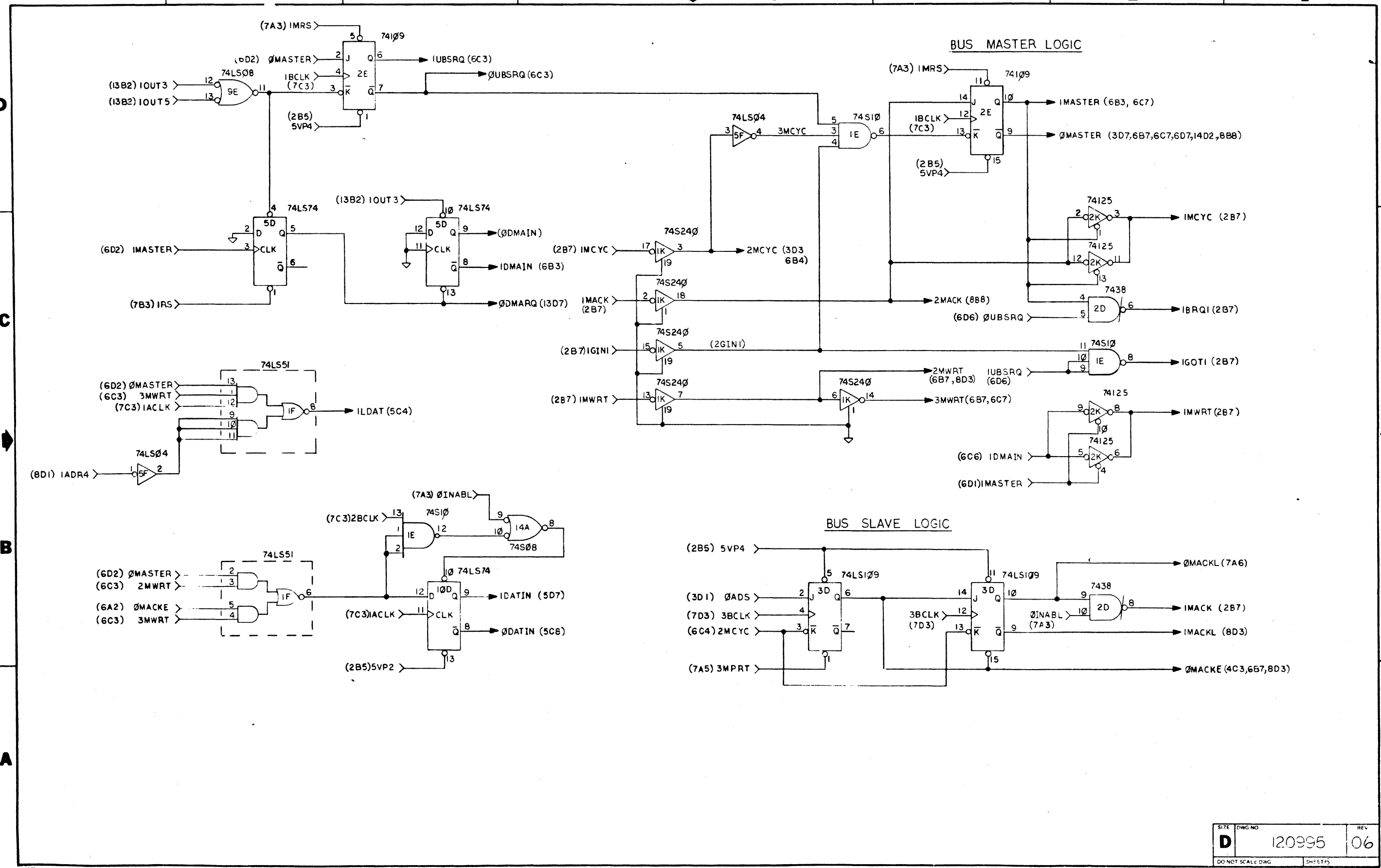
C

B

B

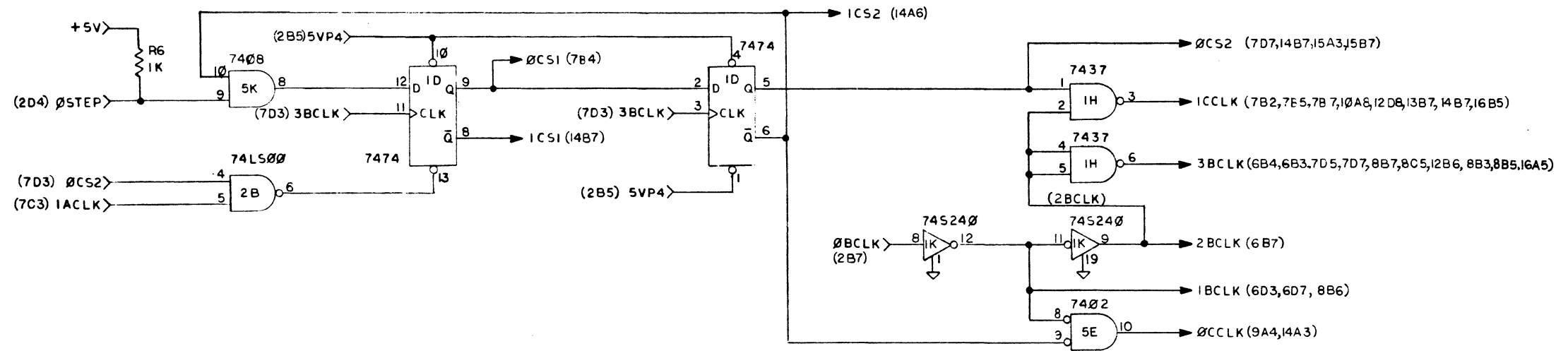
A

A

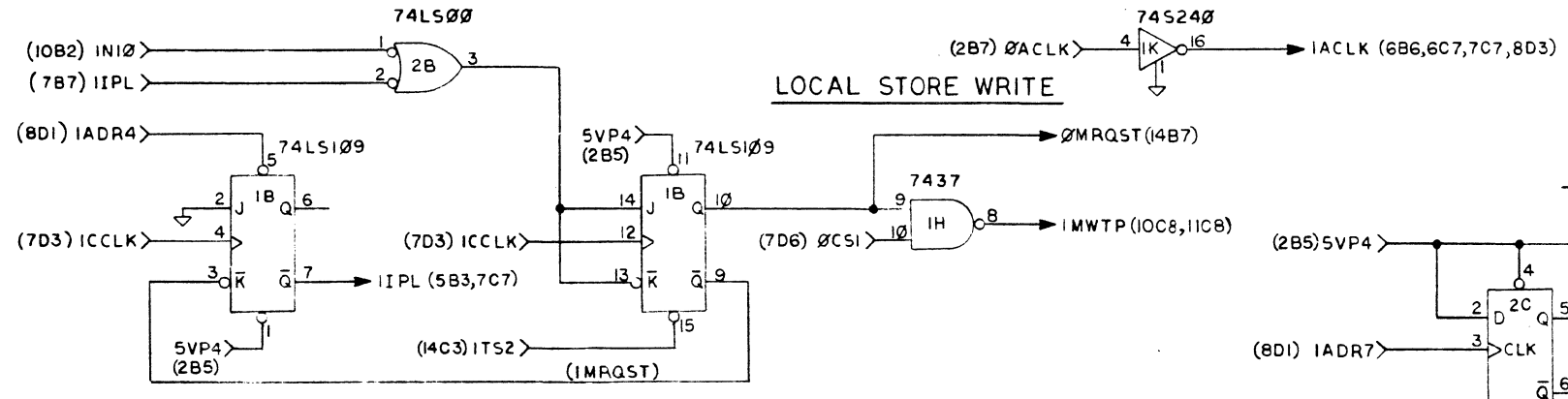


SIZE	DWG NO	REV
D	120995	06
DO NOT SCALE DWG		SHEETS

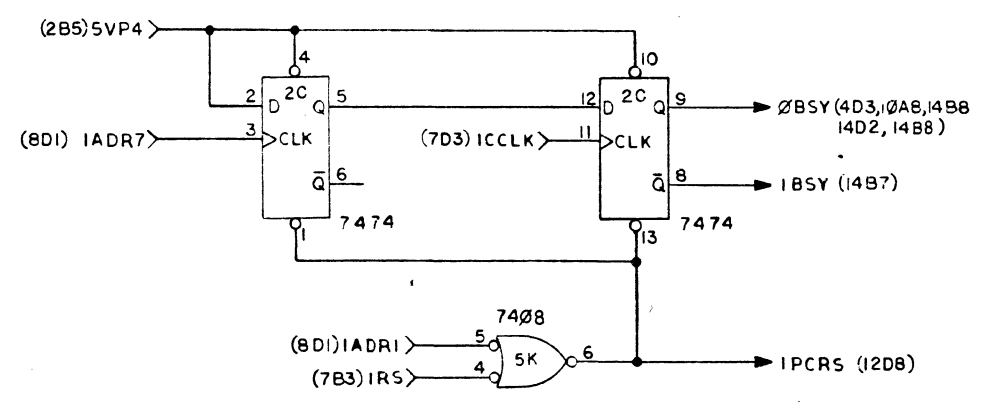
CLOCK TIMING



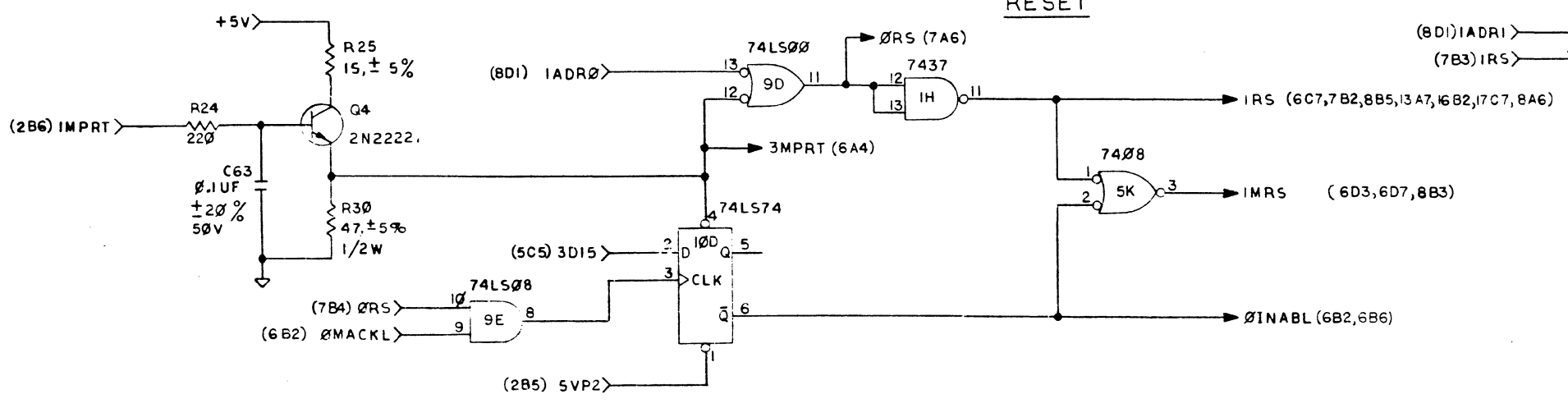
LOCAL STORE WRITE



PROCESS ENABLE



RESET



8

7

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3

2

1

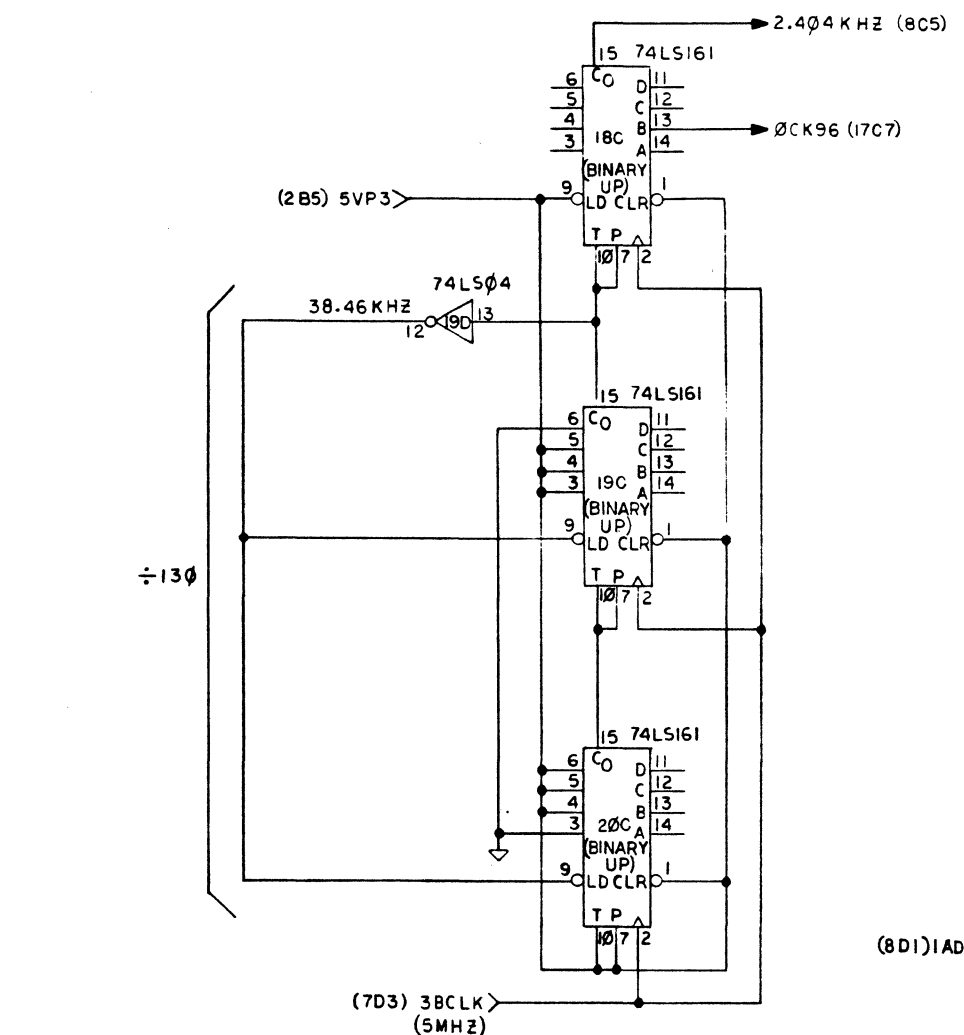
D

C

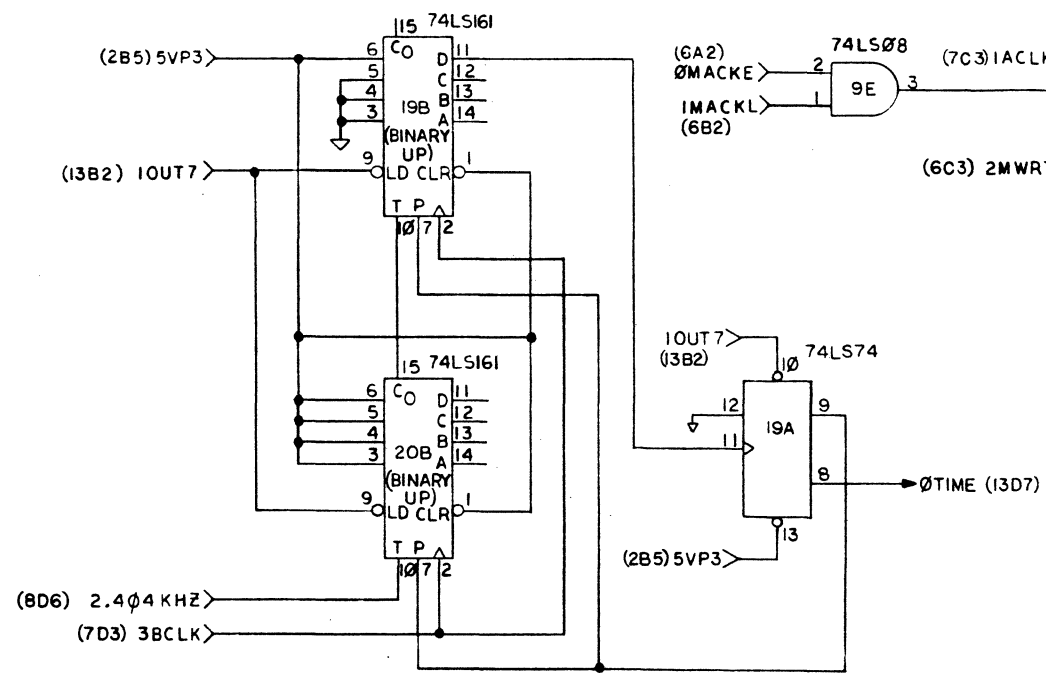
B

A

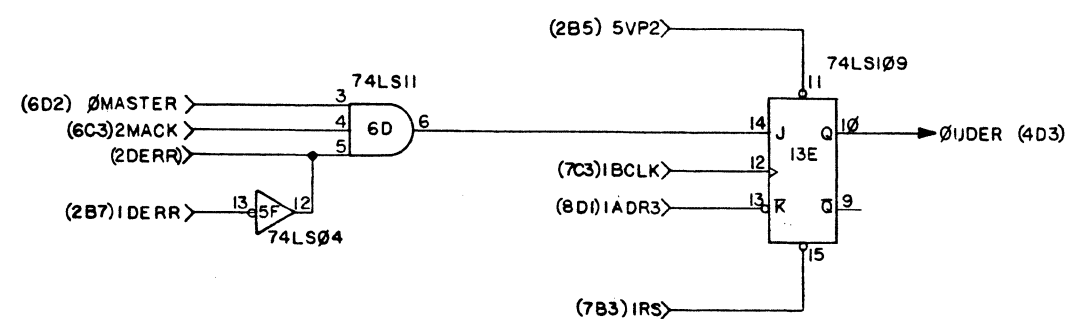
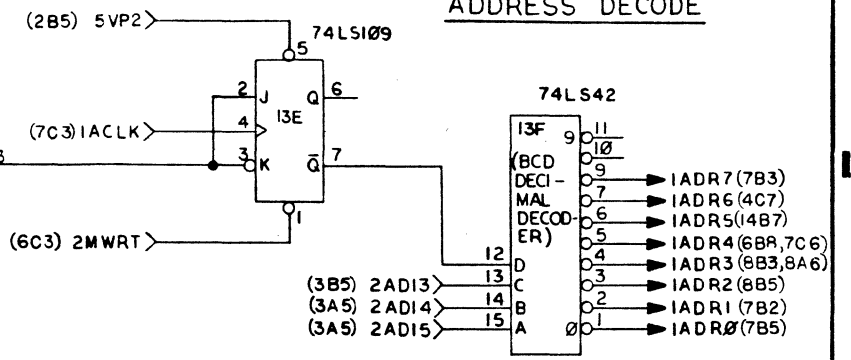
### FREQUENCY GENERATOR



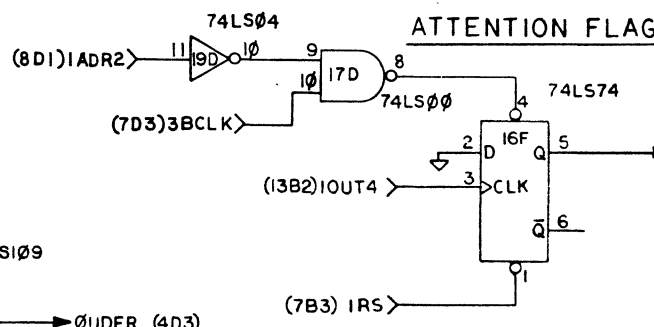
### 0.1 SEC. TIME INTERVAL



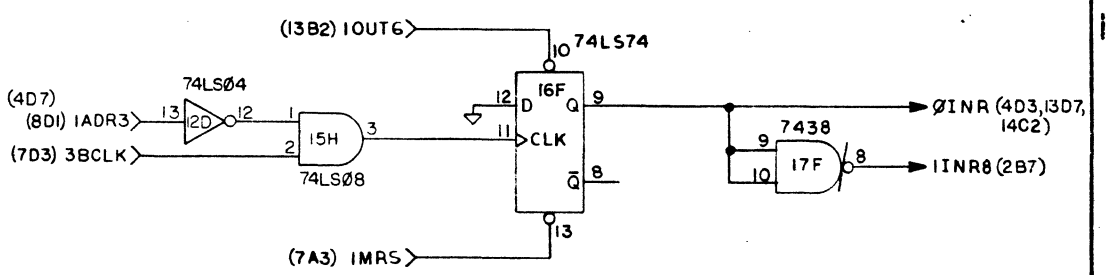
### ADDRESS DECODE



### ATTENTION FLAG



### INTERRUPT FLAG





D

D

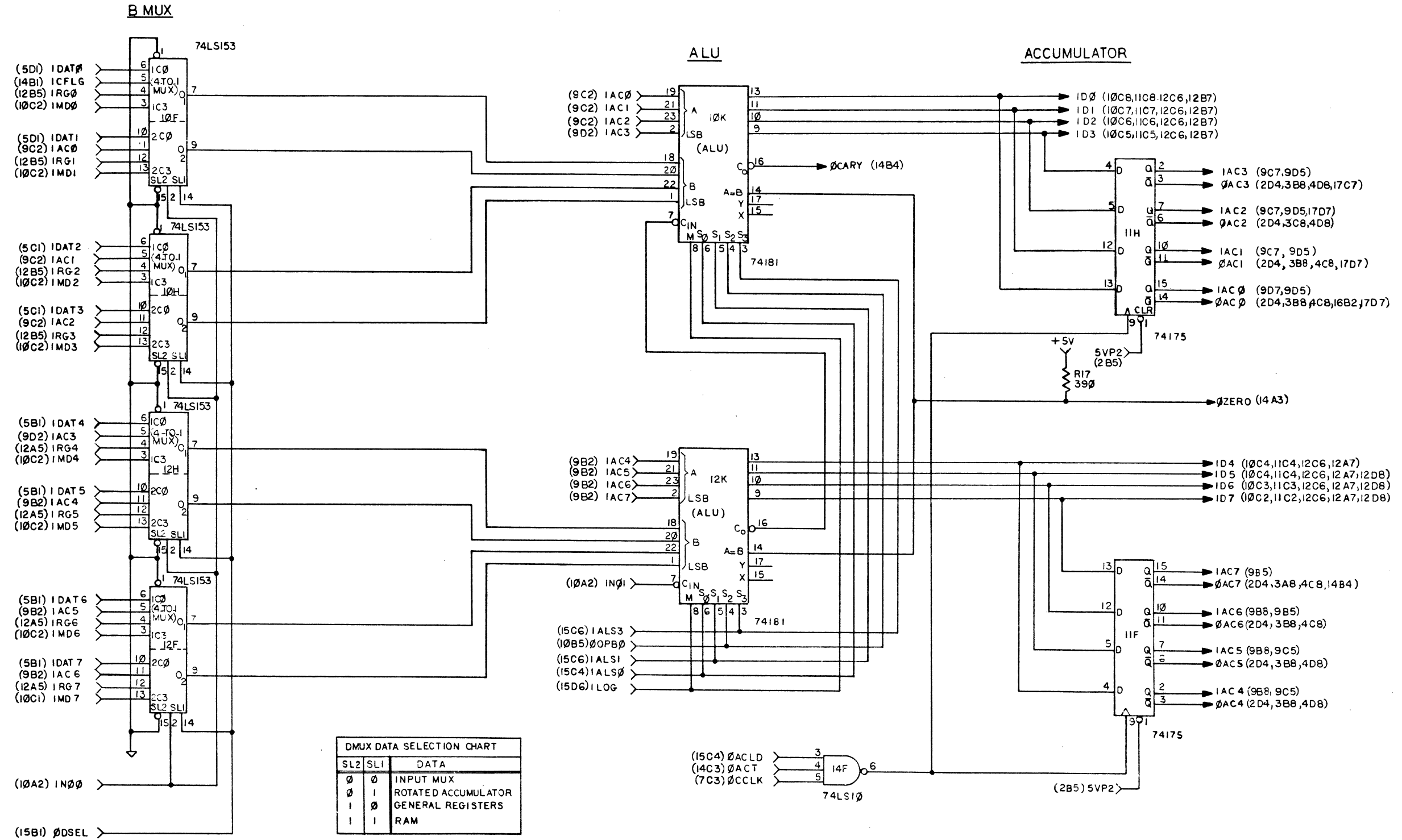
C

C

B

E

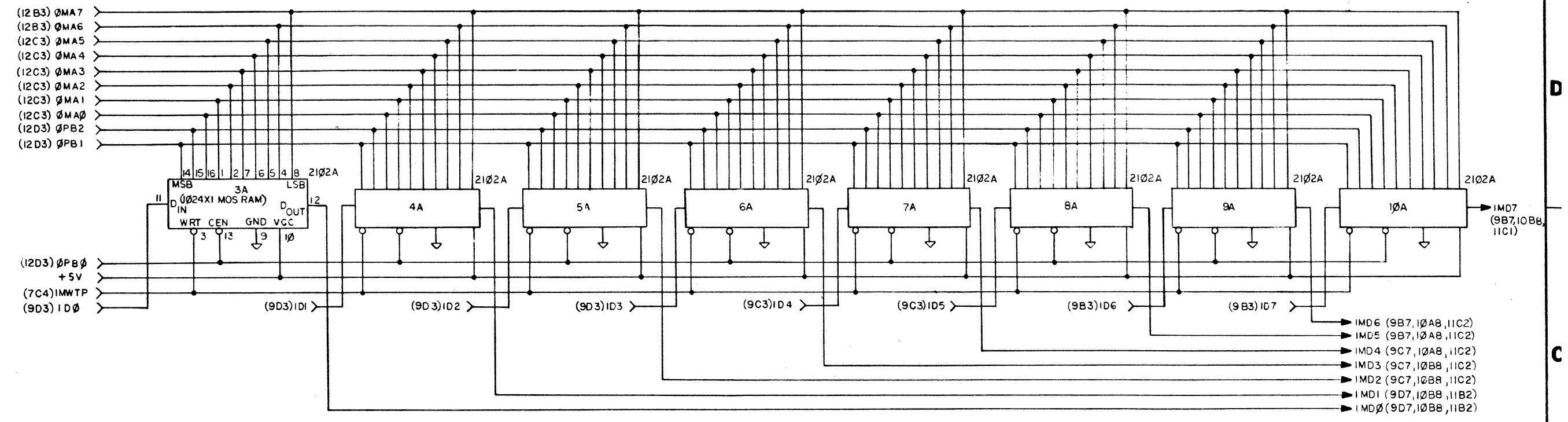
A



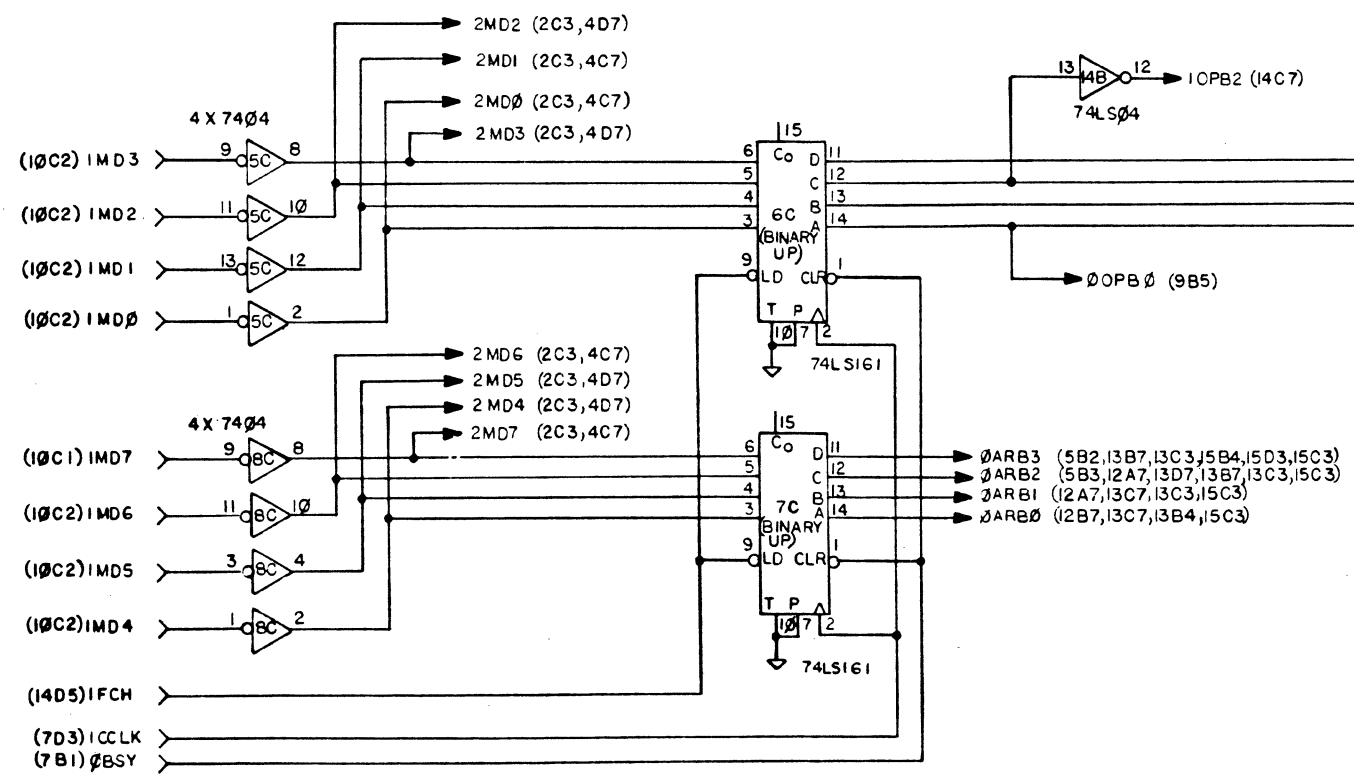
DMUX DATA SELECTION CHART		
SL2	SL1	DATA
0	0	INPUT MUX
0	1	ROTATED ACCUMULATOR
1	0	GENERAL REGISTERS
1	1	RAM

8 7 6 5 4 3 2 1

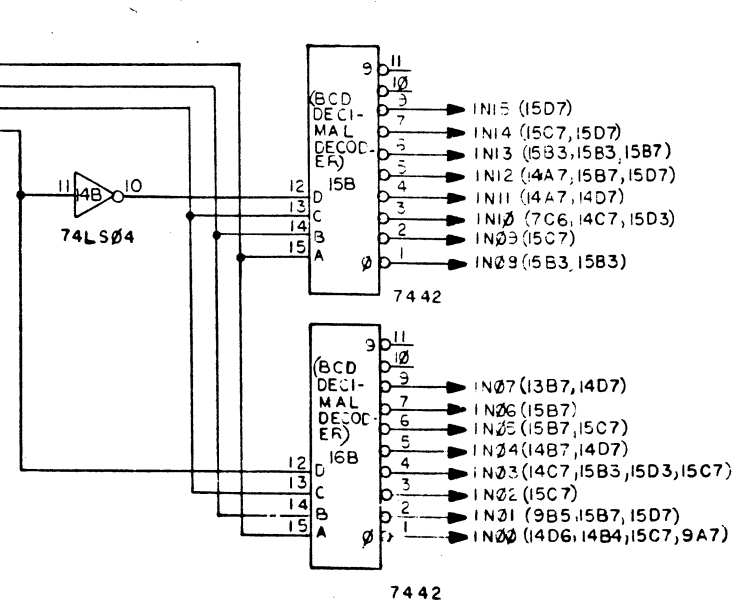
1024 X 8 RAM

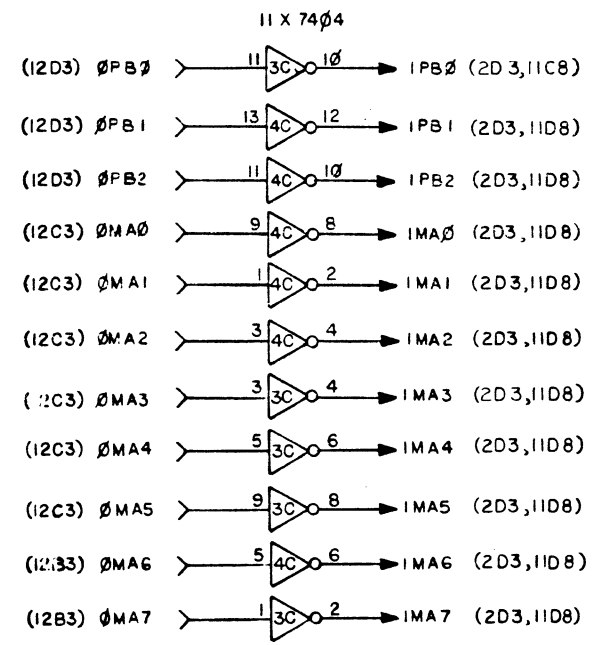
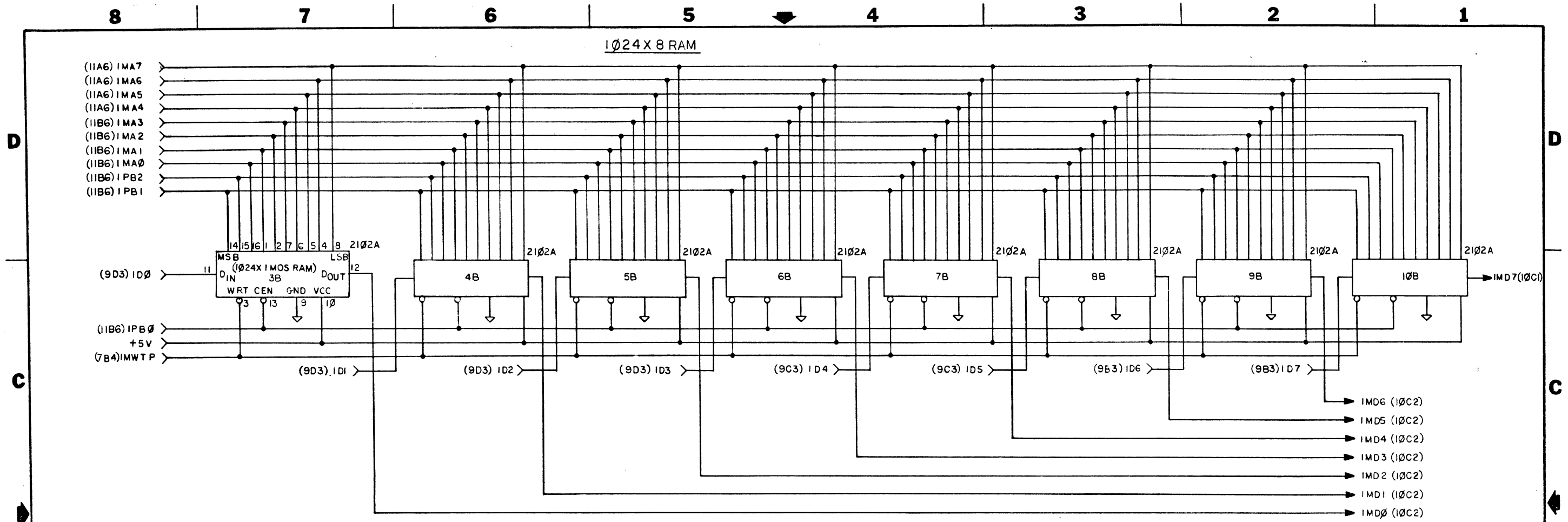


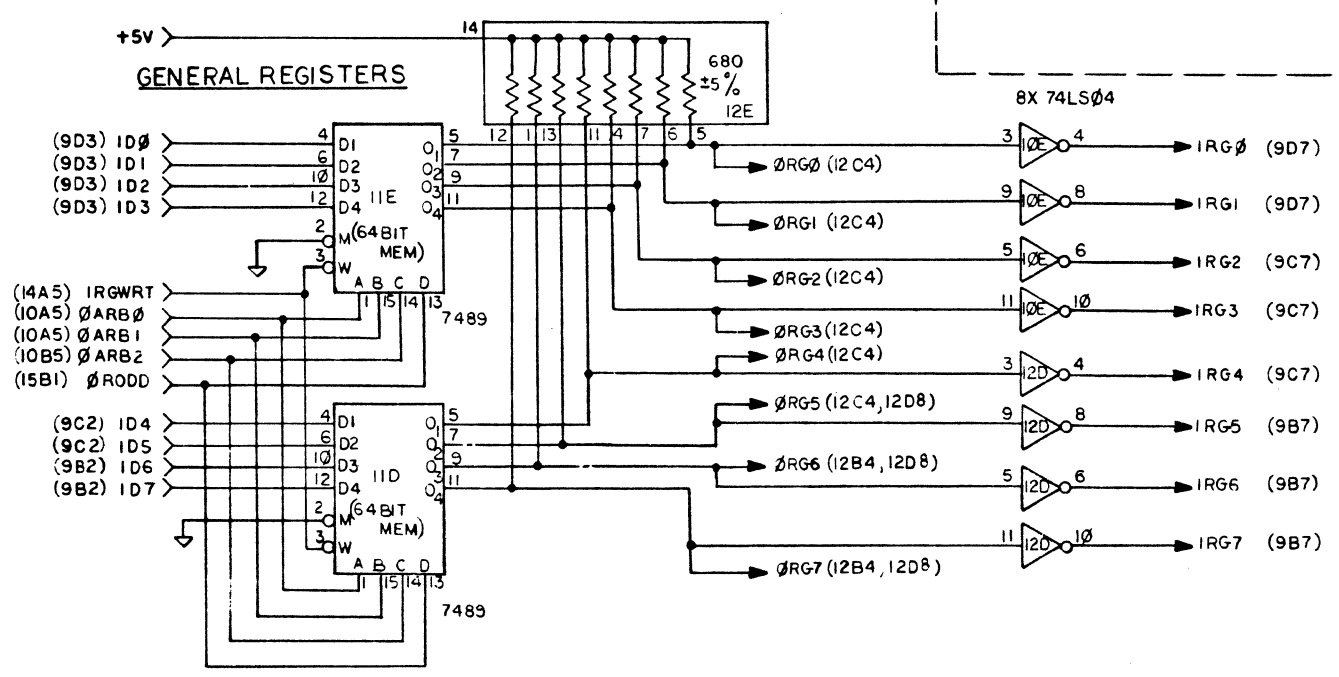
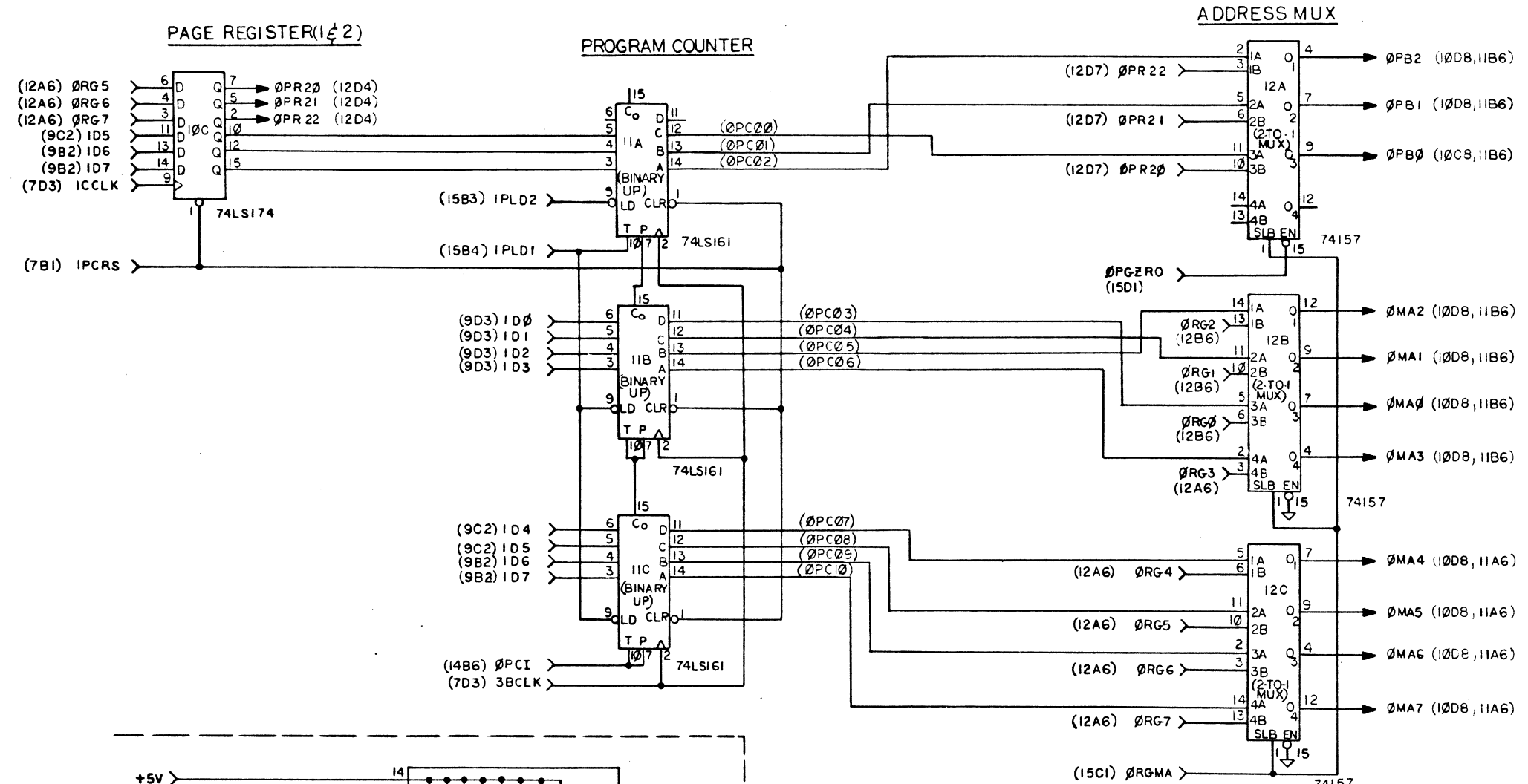
INSTRUCTION REGISTER



INSTRUCTION DECODE

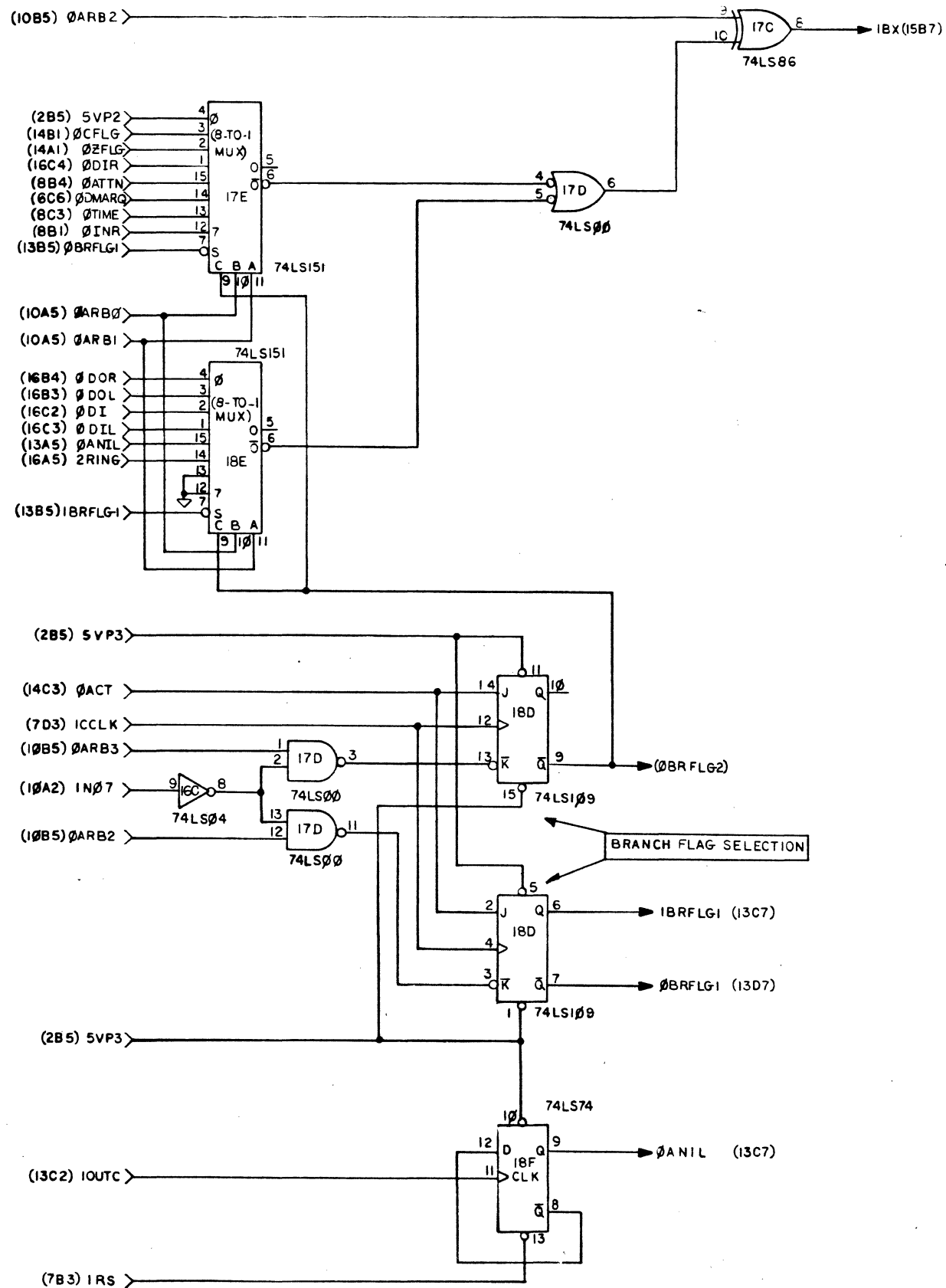




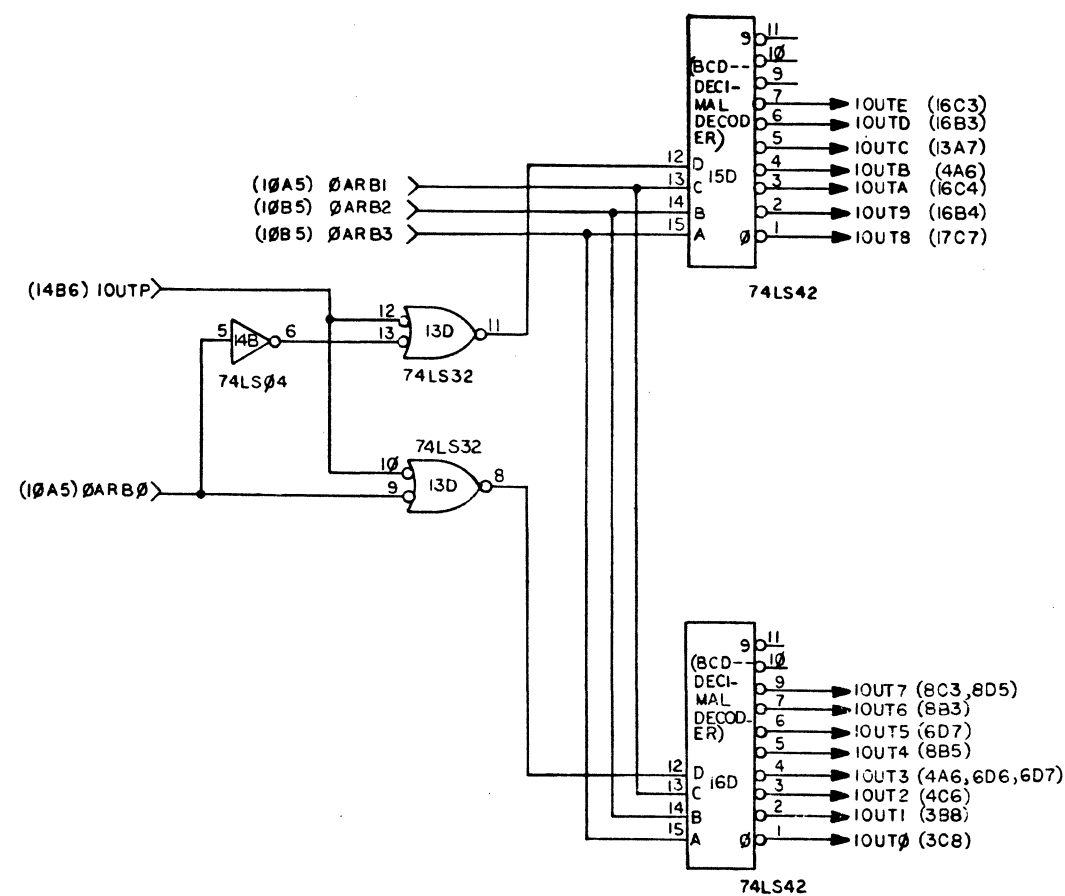


8 7 6 5 4 3 2 1

BRANCH CONDITION SELECTOR



OUTPUT DISTRIBUTOR



8

7

6

5

4

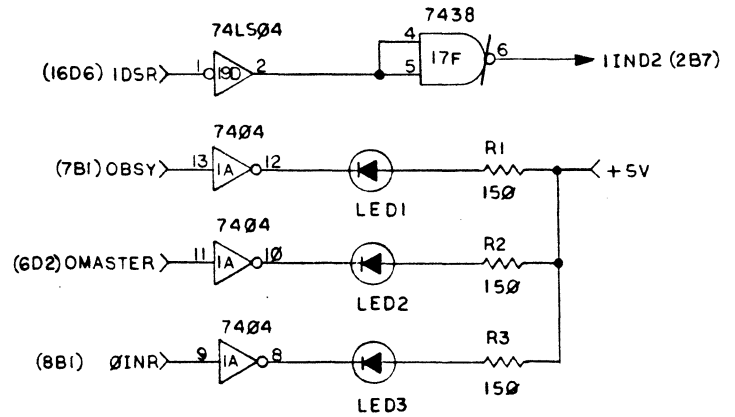
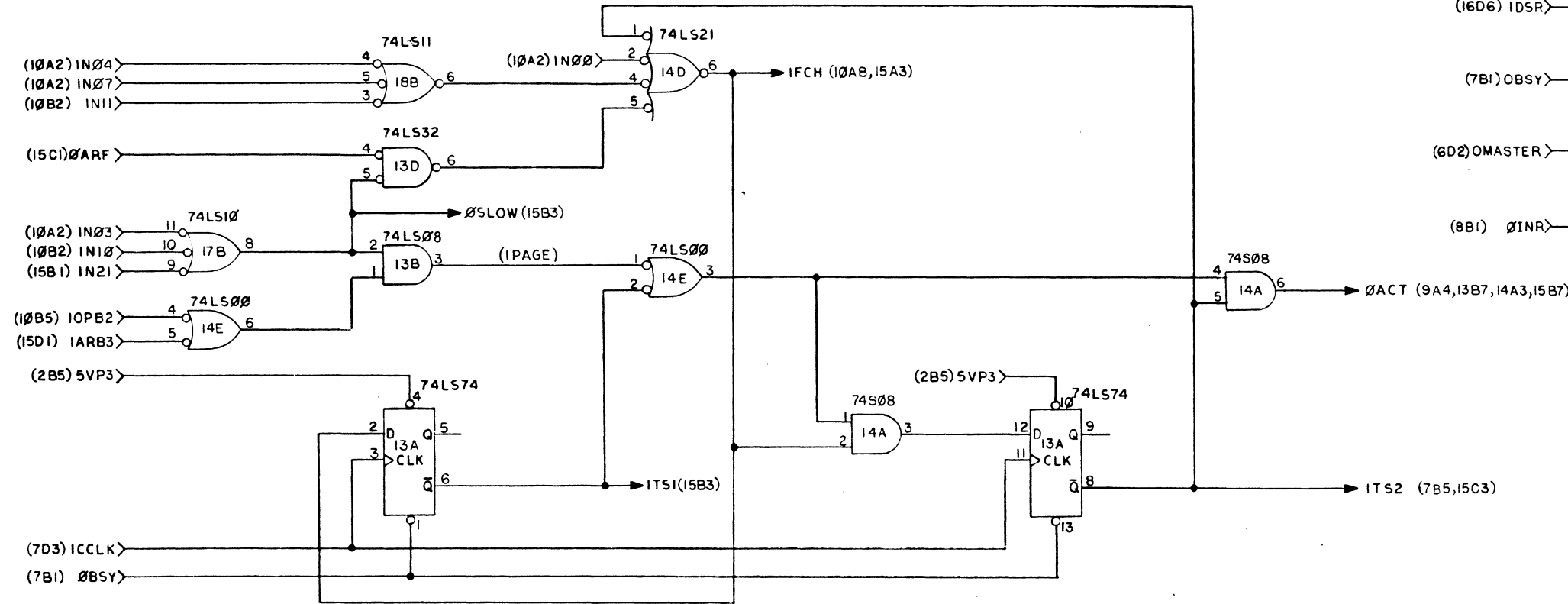
3

2

1

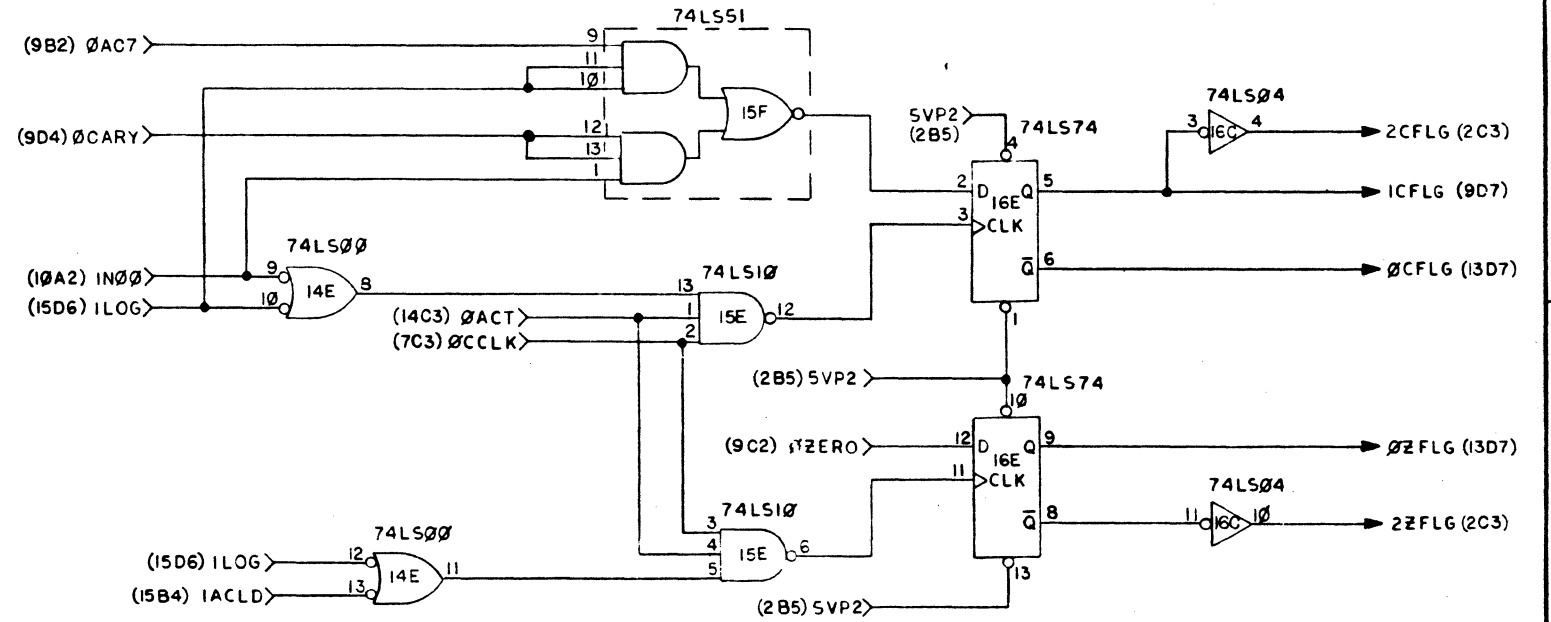
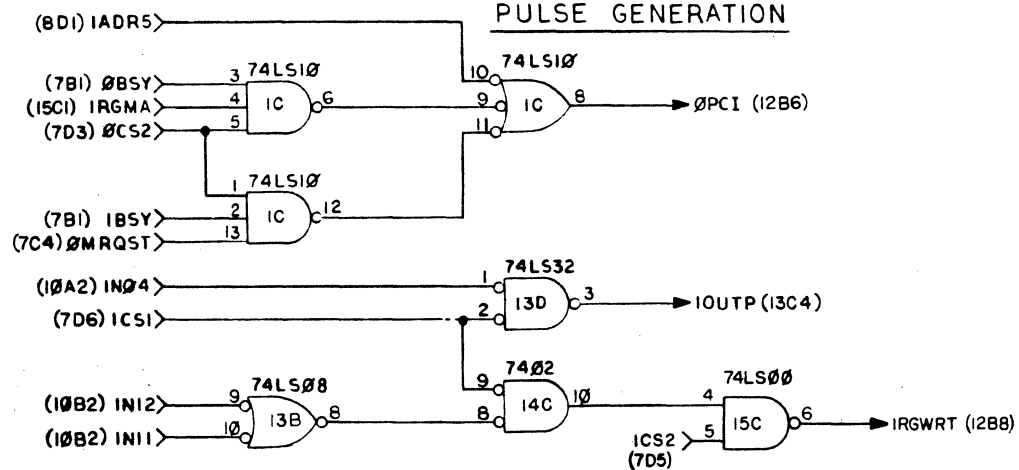
TIME STATES

INDICATORS



PULSE GENERATION

CARRY AND ZERO FLAGS



SIZE	DWG NO	REV
D	120995	06
DO NOT SCALE DWG		SHEET 14

8

7

6

5

4

3

2

1

D

C

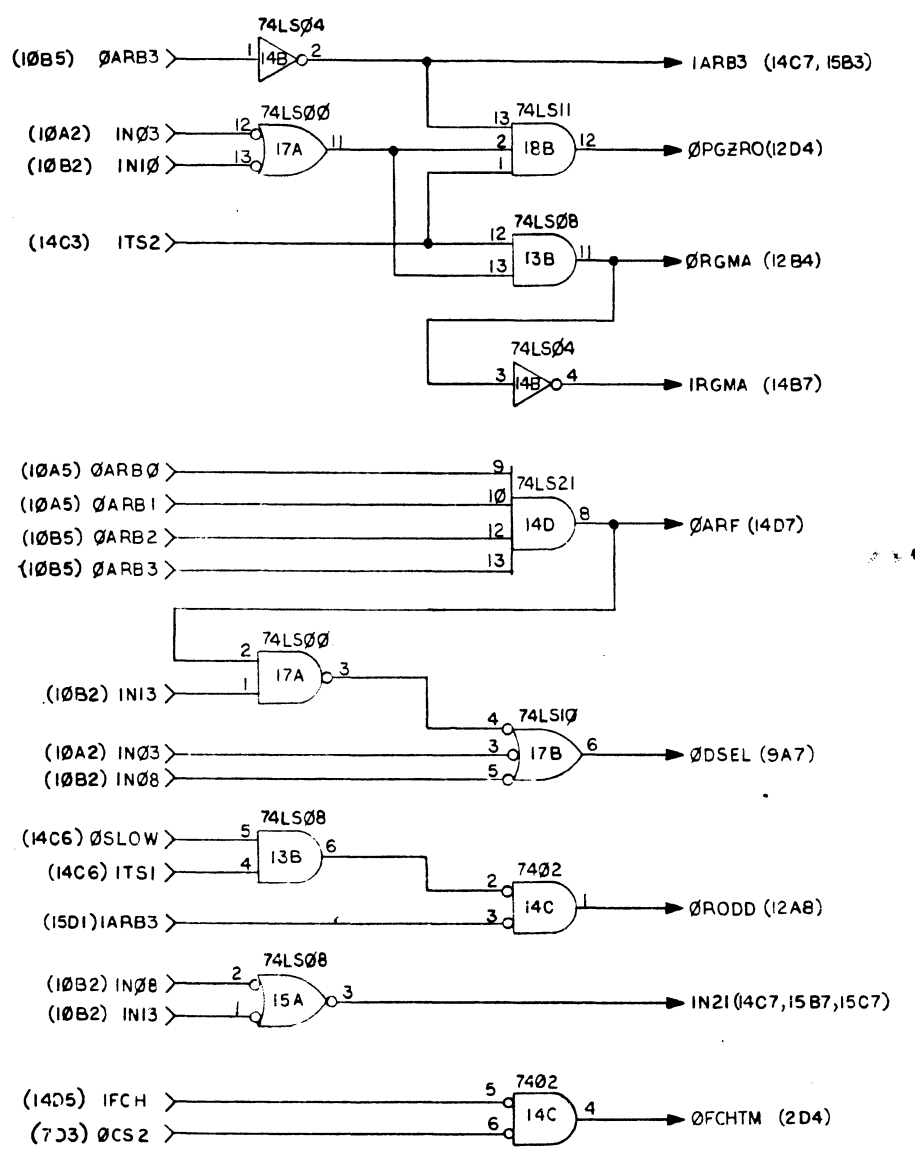
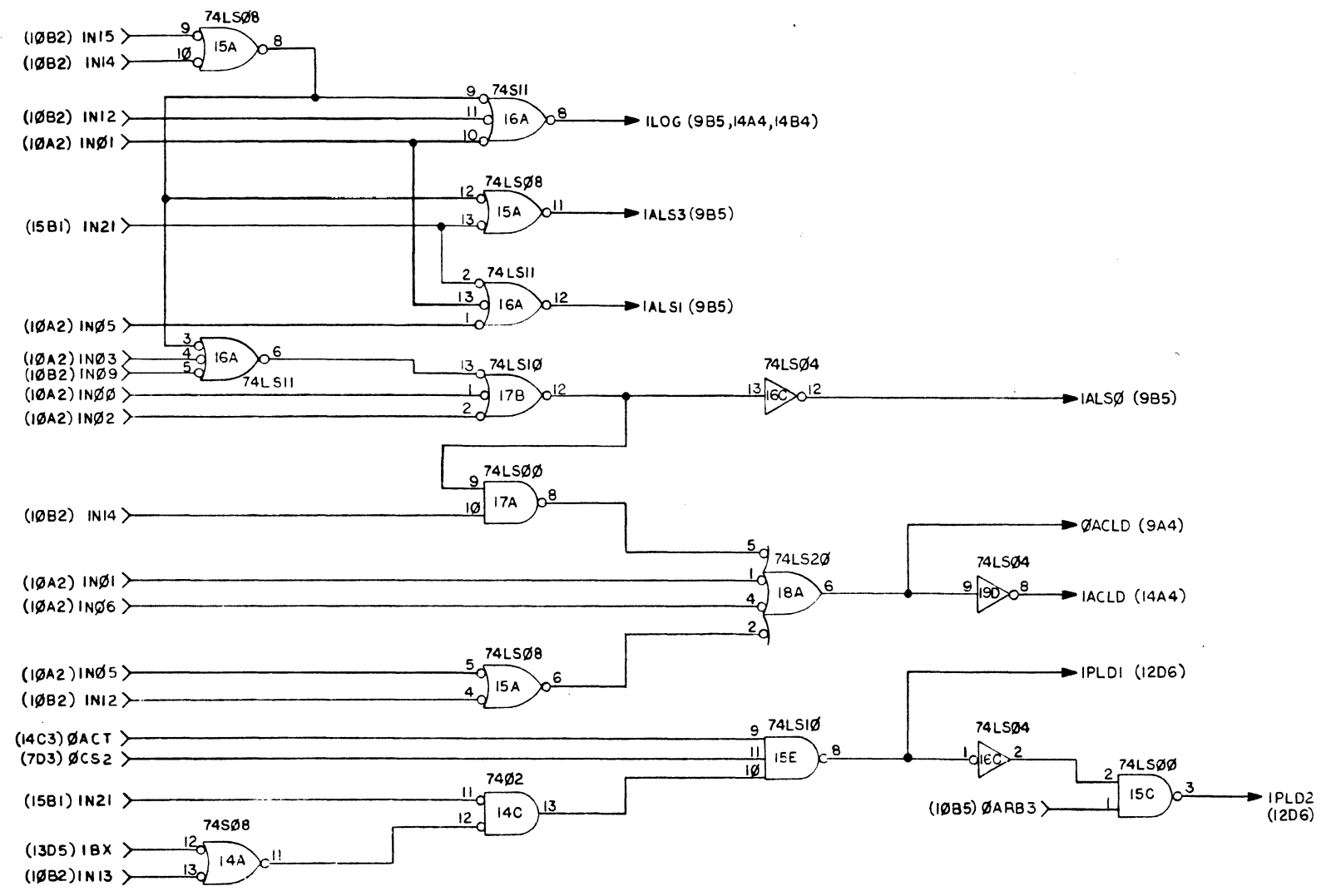
B

A

E

C

E



SIZE	DWG NO	REV
D	120995	06
DO NOT SCALE DIM		SH-501 15

8

7

6

5

4

3

2

1

D

C

B

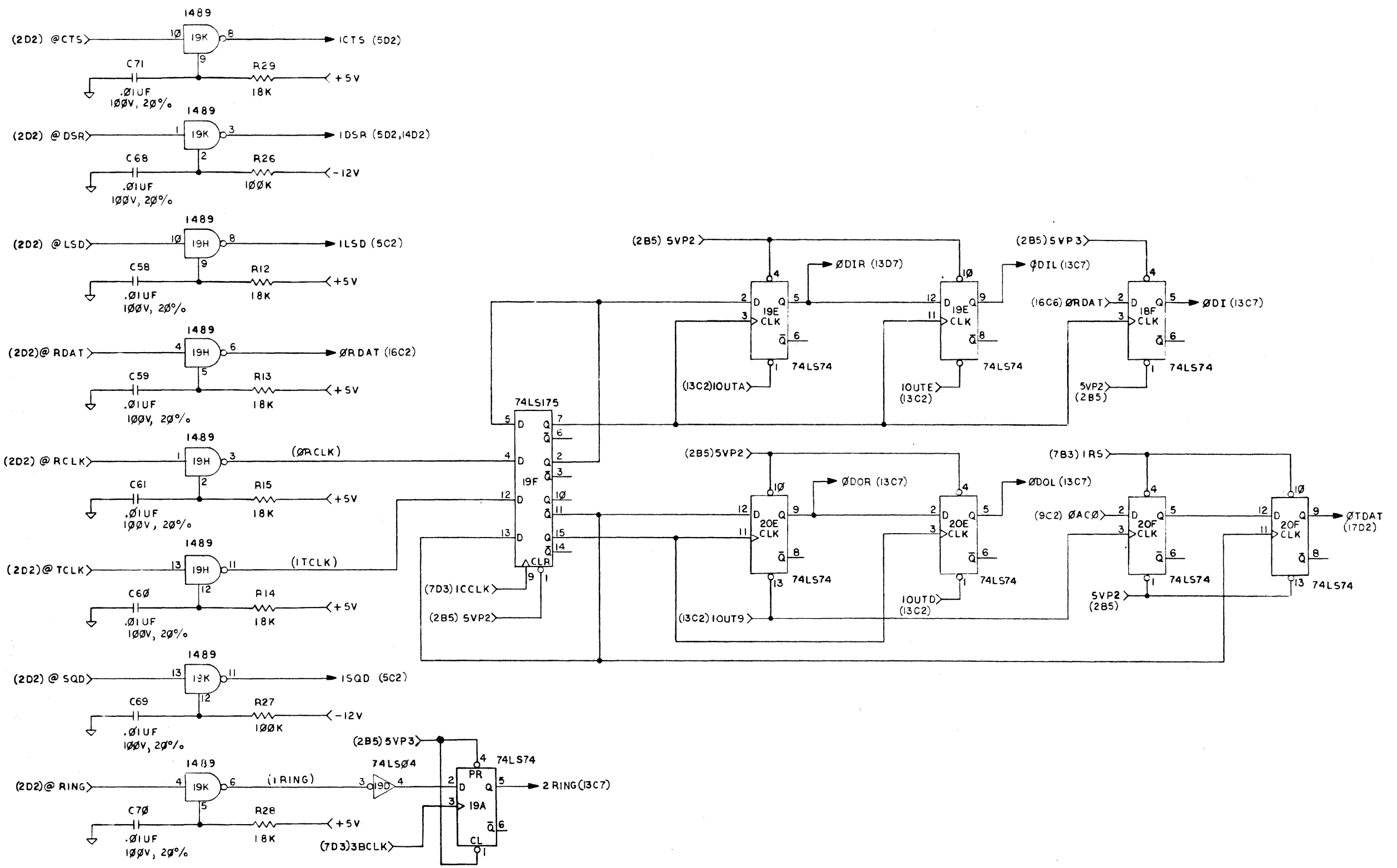
A

D

C

B

A



SIZE	DWG NO	REV
D	120995	07
DO NOT SCALE DWG		SHEET 16



8

7

6

5

4

3

2

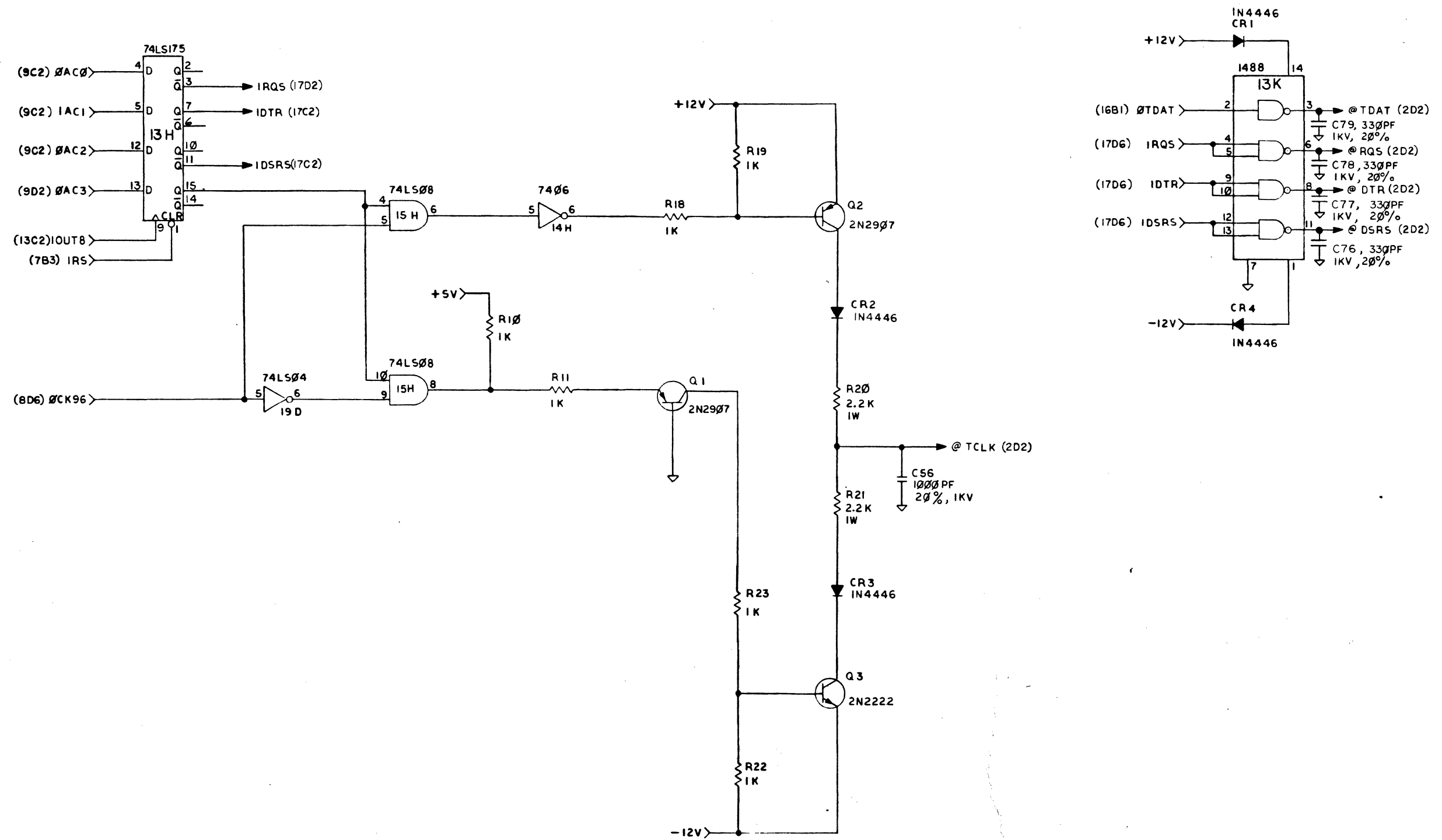
1

D

C

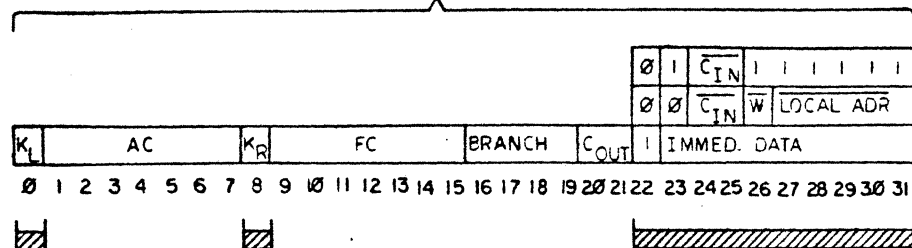
B

A



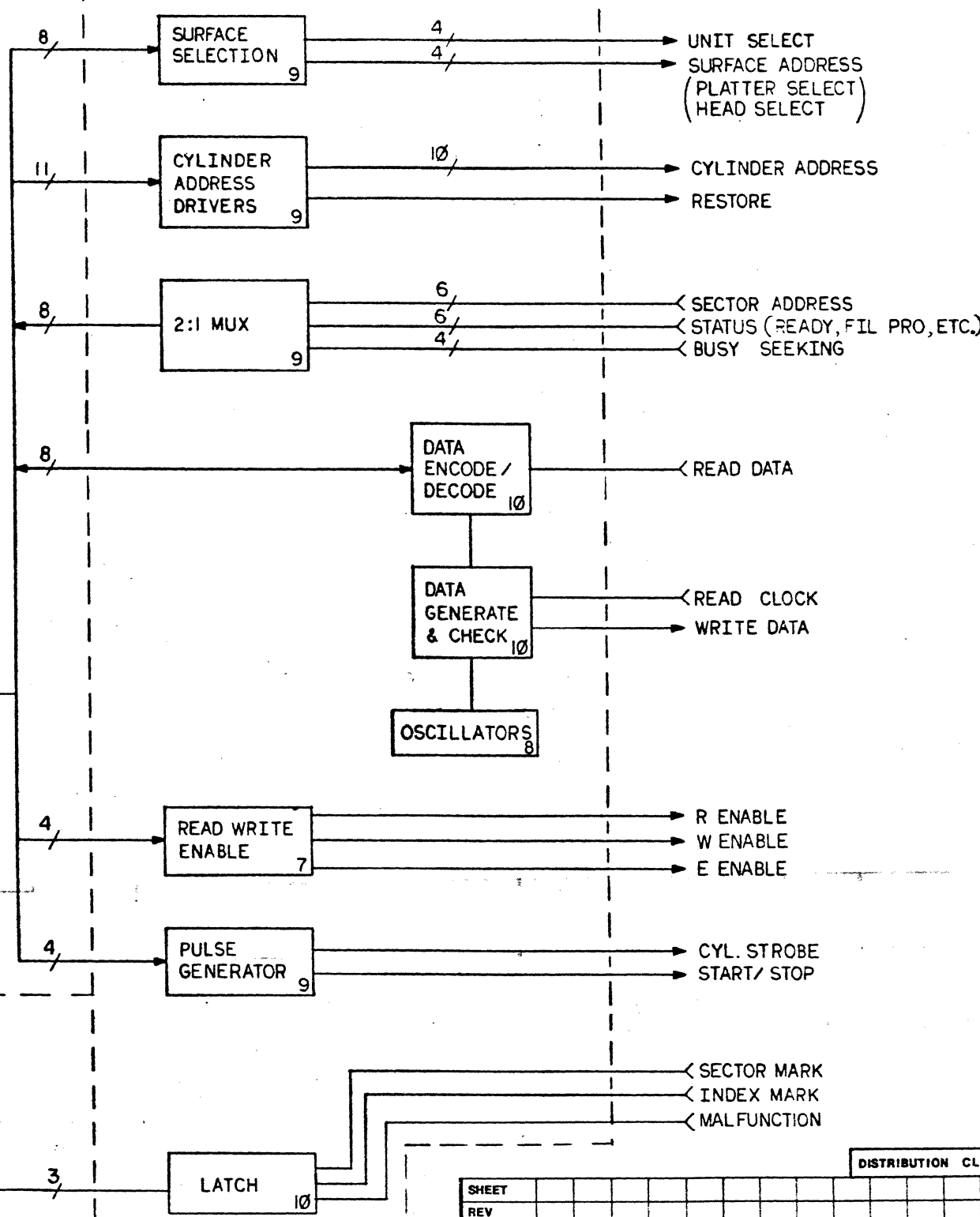
SIZE	DWG NO	REV
D	120995	06
DO NOT SCALE DWG		SHEET 17

MICRO INSTRUCTION FORMAT

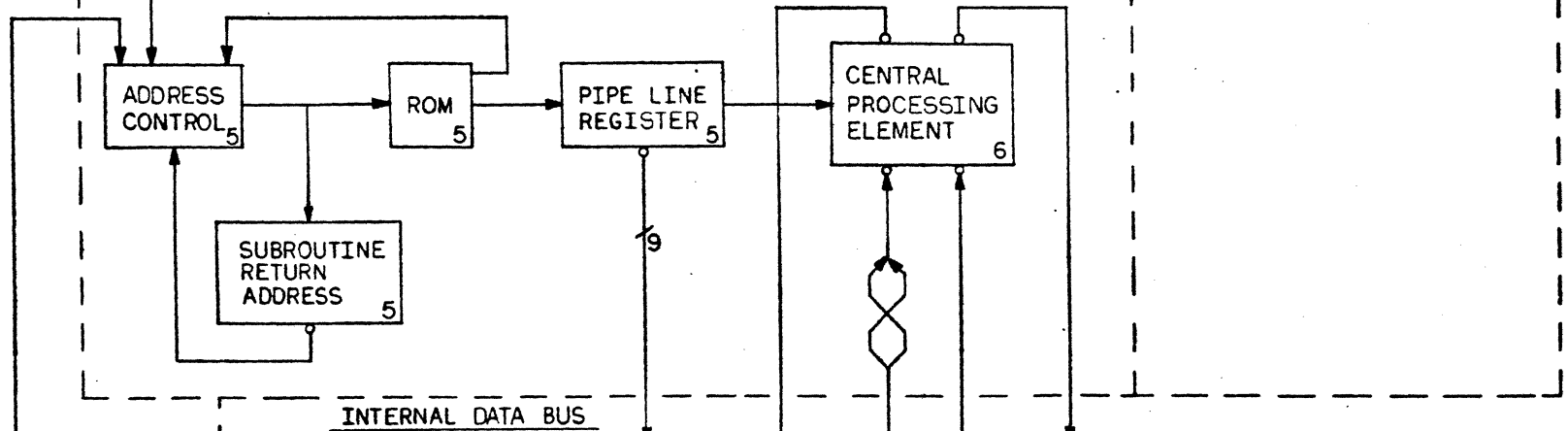


THESE BIT POSITIONS CONTAIN INVERTED DATA IN THE ROM WHEN COMPARED TO THE MICROCODE LISTING

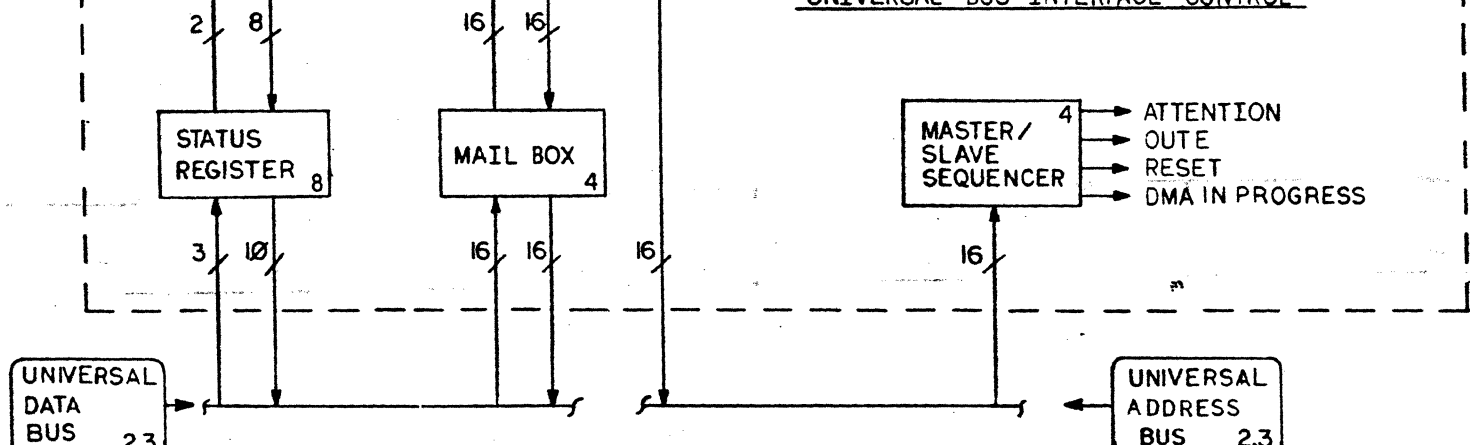
DISK INTERFACE CONTROL



MICRO PROCESSOR



UNIVERSAL BUS INTERFACE CONTROL



- 5. NUMBERS IN BLOCK DIAGRAM BLOCKS ARE APPLICABLE SCHEMATIC SHEETS.
- ④ NOT INSTALLED IN MANUFACTURING.
- 3. REF. DESIGNATORS R10, R11, R12, R13, NOT USED.
- ② THIS HALF OF IC 13B IS NONFUNCTIONAL
- 1. ALL RESISTORS ARE IN OHMS, 1/4W 10%.

NOTES: UNLESS OTHERWISE SPECIFIED

REV	DESCRIPTION	DRFTG	APPVD	DATE	NEXT ASSY	QTY	MODEL	QTY
09	INCORP DCO 11272	TC		11/13/76				
08	INCORP DCO 10592	BM						
07	INCORP DCO 09621	TC						
06	INCORP DCO 08946	BM						
05	INCORP DCO 08088	TC						
04	INCORP DCO 08551	TA						
03	INCORP DCO 07675	TC						
02	CODE 10 REL. NO CHANGE PER DCO 06424							
01	RELEASE PER DCO 757-716							

SHEET	REV	REV STATUS OF SHEETS	SHEET	1	2	3	4	5	6	7	8	9	10
			REV	09	09	07	03	05	08	06	07	08	02

DRAWN: BOB WALKER 10-4-76  
 CHECK: R. Raja 11-3-76  
 APPR: [Signature]  
 RELEASE: [Signature]

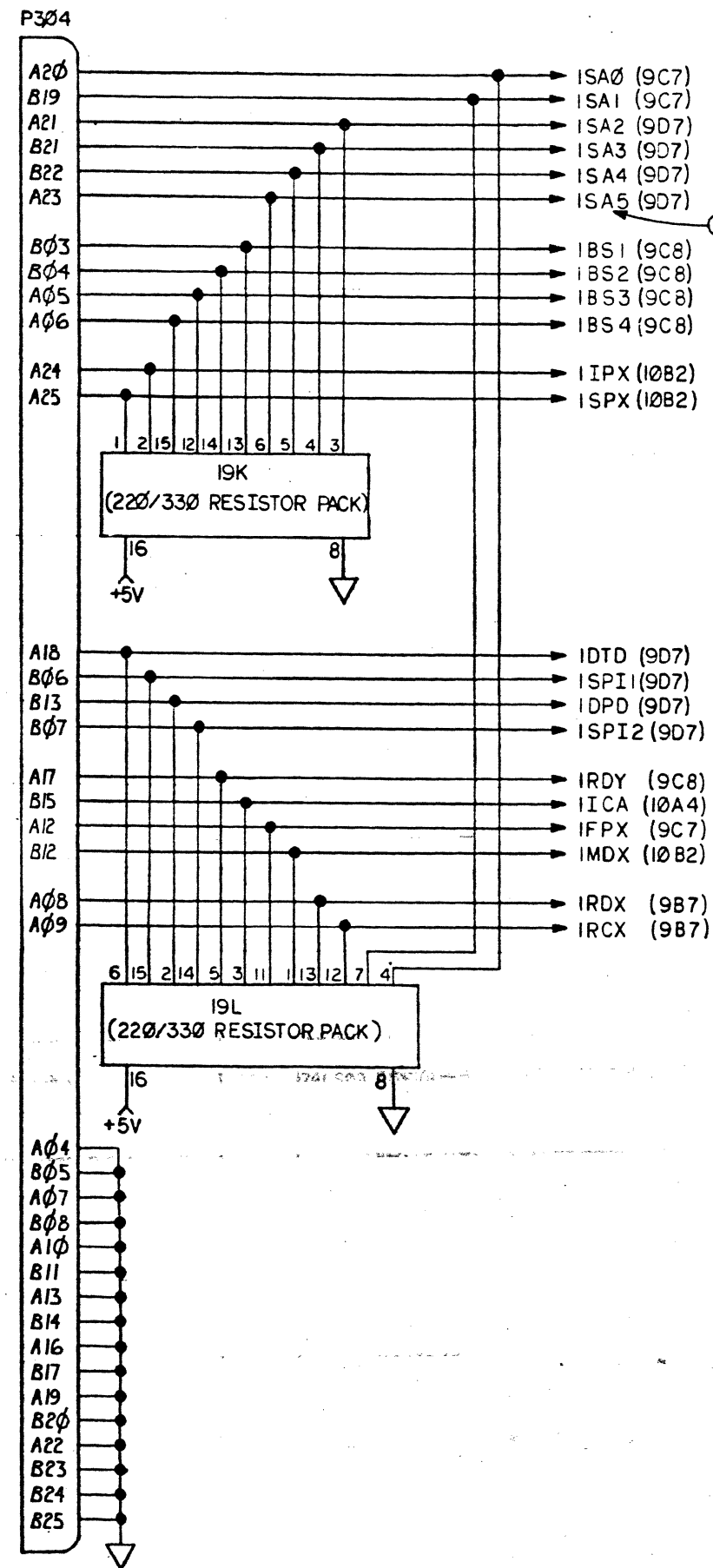
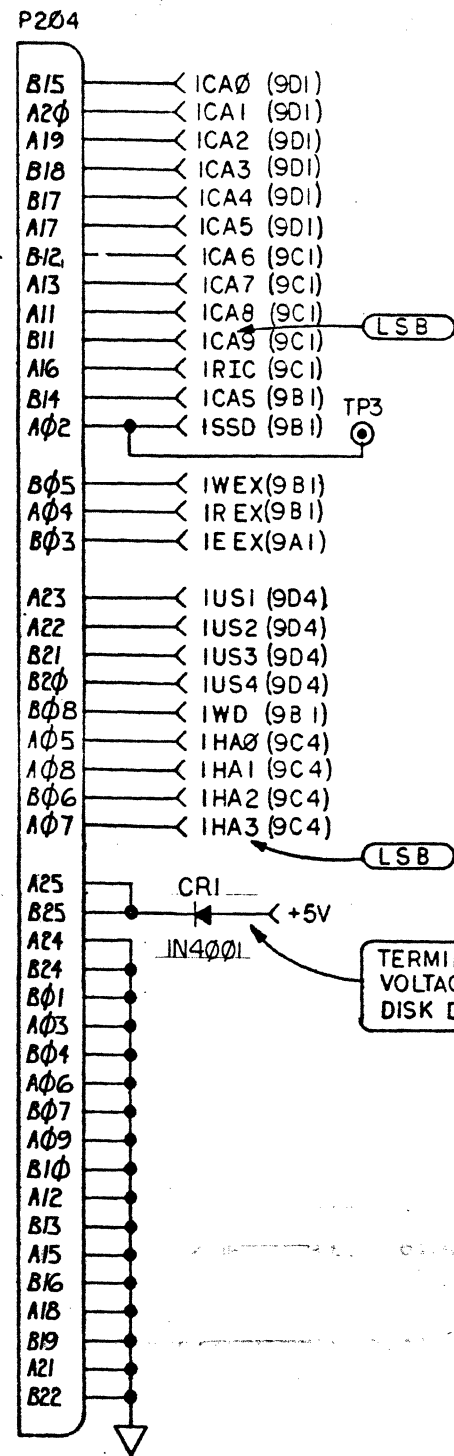
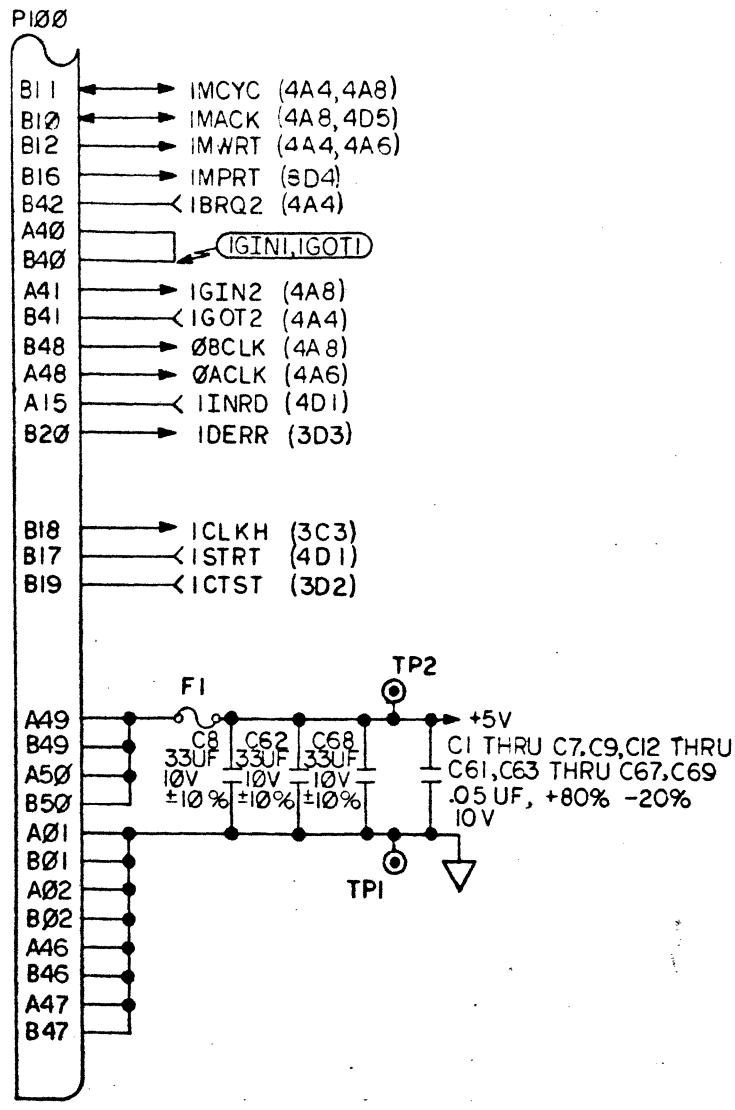
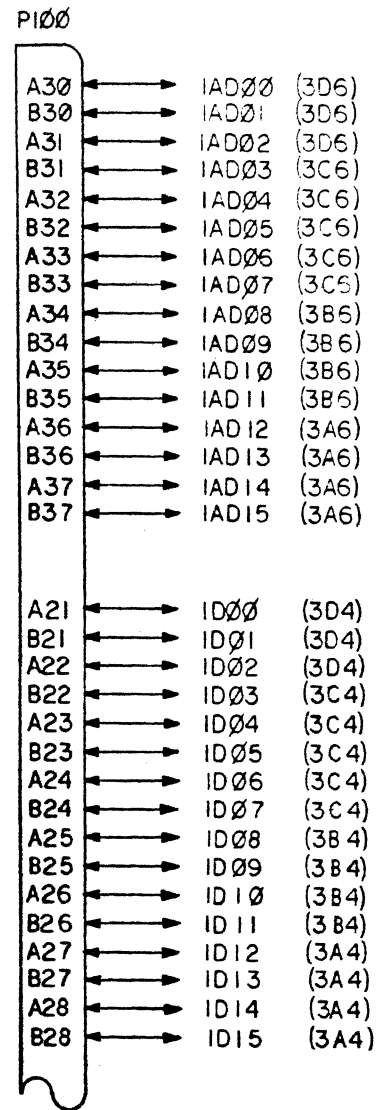
**PERTEC** BUSINESS SYSTEMS DIVISION  
 TITLE: SCHEMATIC, PCBA  
 RIGID DISK CONTROLLER

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR TRANSMITTED TO OTHER PERSONS OR DISCLOSED TO OTHERS OR USED FOR MANUFACTURING OR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN PERMISSION OF PERTEC BUSINESS SYSTEMS

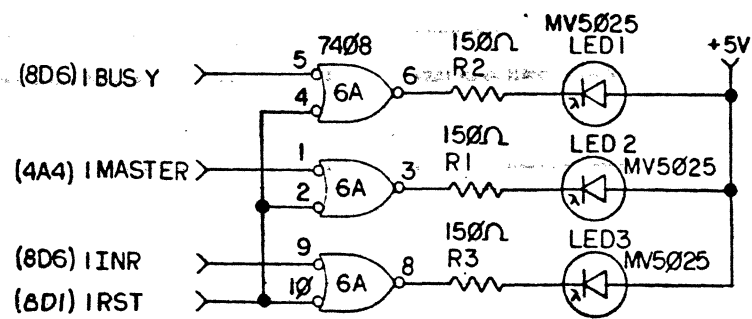
CODE IDENT NO	SIZE	SWG NO	REV
10	D	120998	09

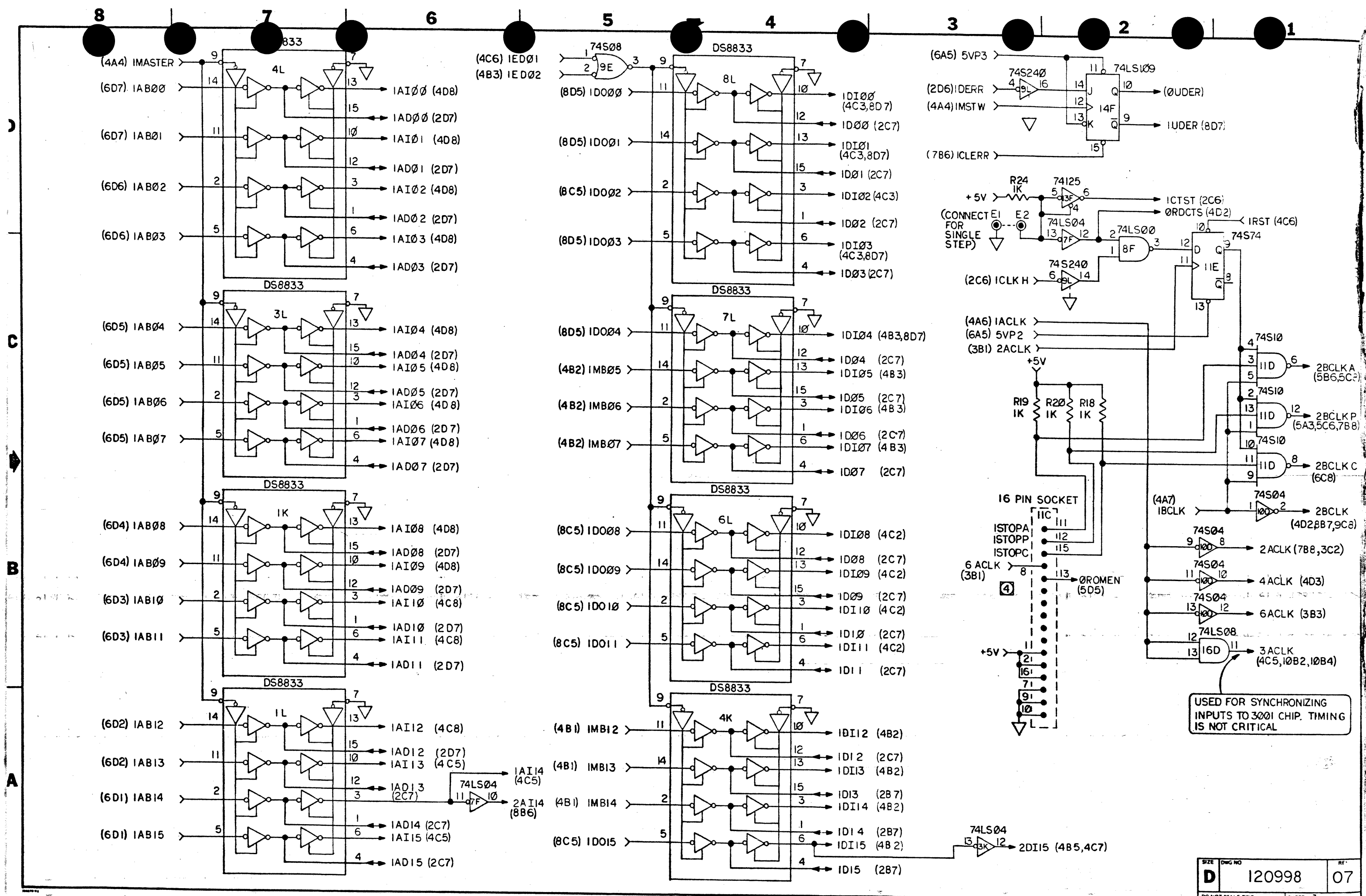
SCALE: DO NOT SCALE DWG SHEET 1 OF 10

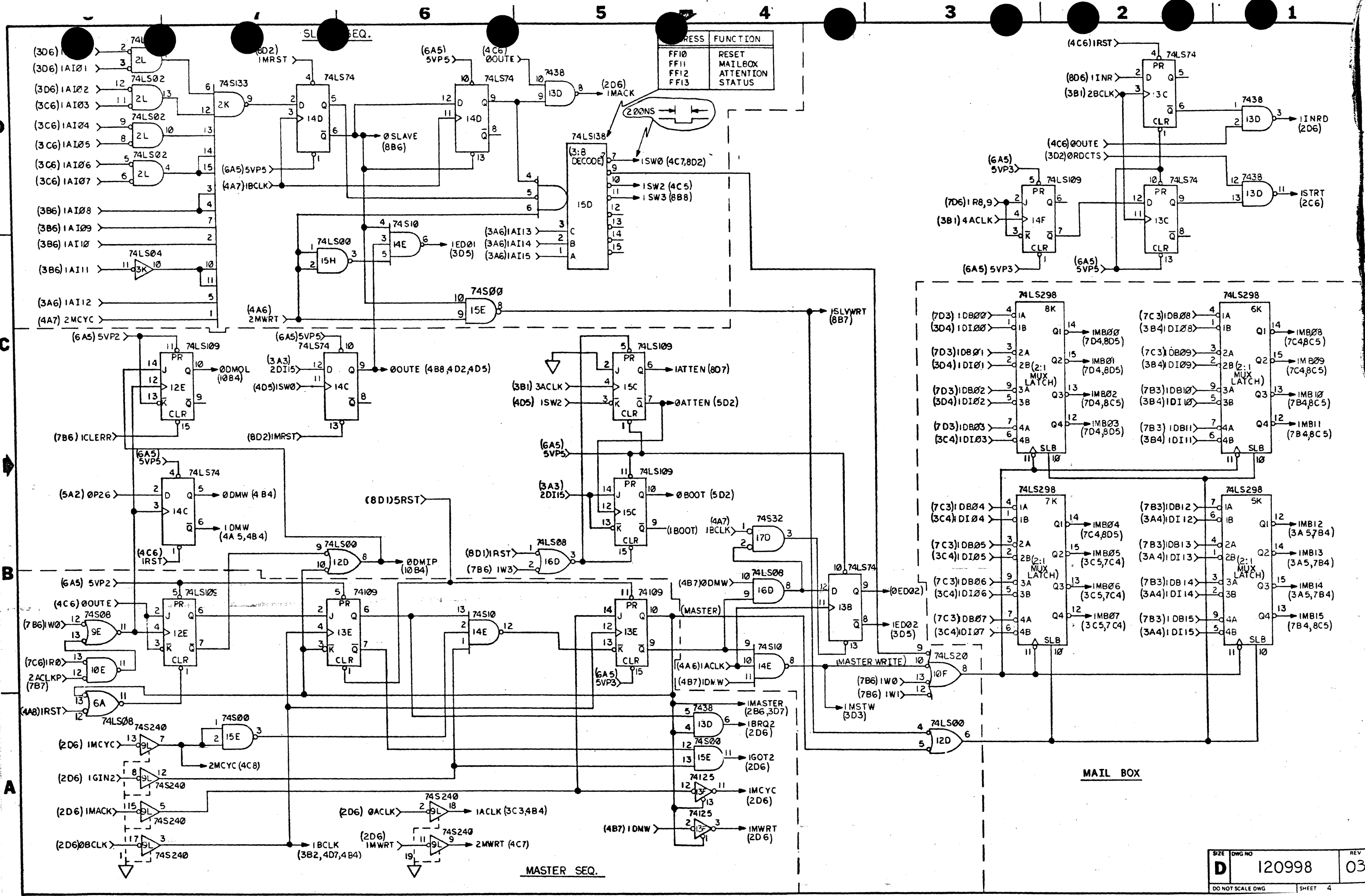
DISTRIBUTION CLASS B



SPARE IC GATES (OUTPUTS CIRCLED)	
74LS00	15E (9) 9 10 17E 4 5 (6) 10 9 (8) 13 12 (11)
74LS04	3K (8) 9 7A 5 (6) 8 9 7F 3 (4) 9A (8) 9 (12) 13 17B (2) 13
74S08	6A (11) 12 13 9E 1 2 (3)
74S32	10E 4 5 (6)
74LS09	9F 1 2 3 4 5 (6) 7 12A (9) (10) 11 12 13 14 15 19F (9) (10) 11 12 13 14 15
74125	13F (8) 9 10
74SI32	20F 4 5 (6)
74LS08	16D 4 5 (6)
74LS00	13A 10 9 (8) 1, 2 (3), (11) 12, 13

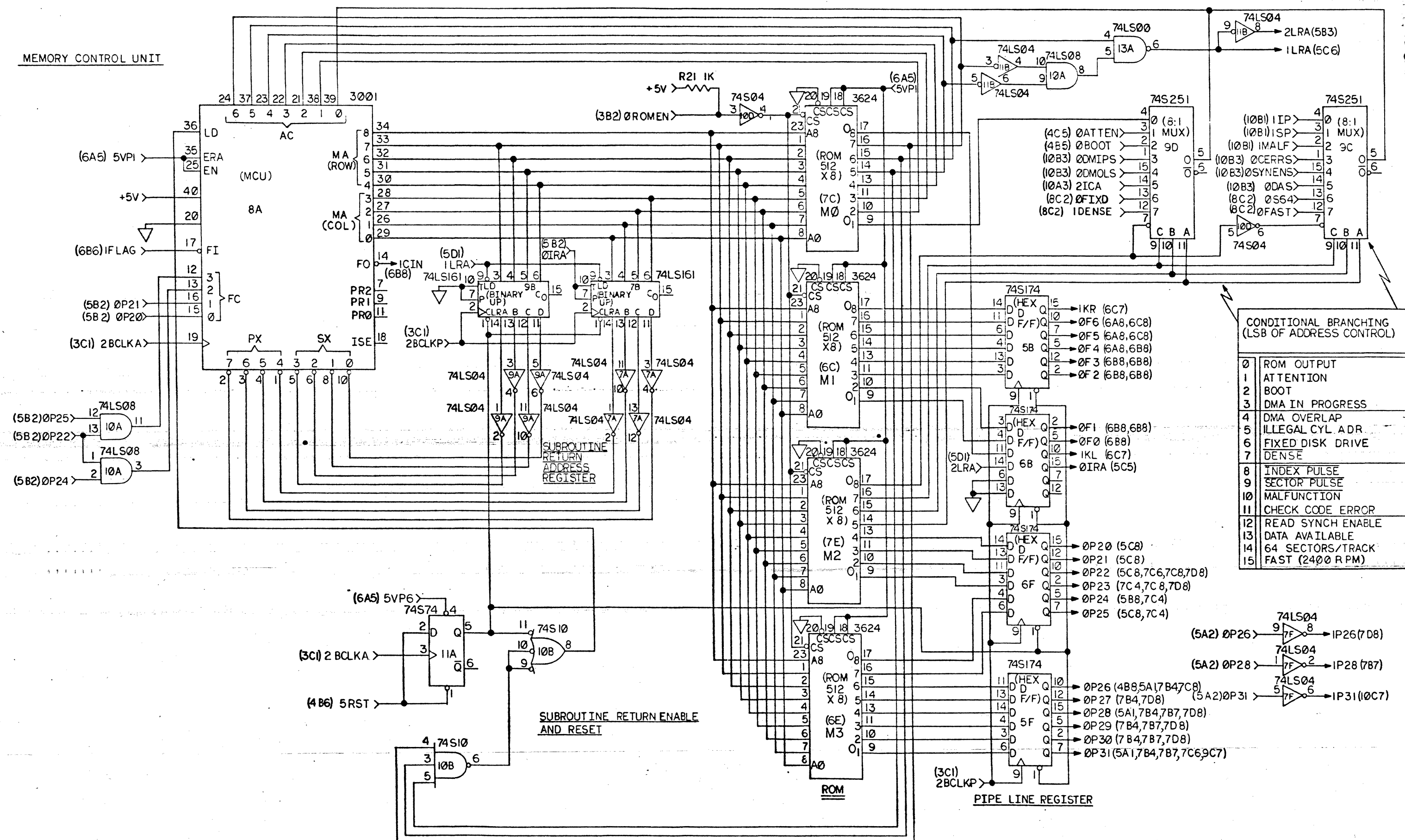






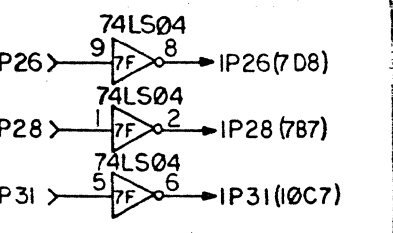
ADDRESS	FUNCTION
FF10	RESET
FF11	MAILBOX
FF12	ATTENTION
FF13	STATUS

MEMORY CONTROL UNIT

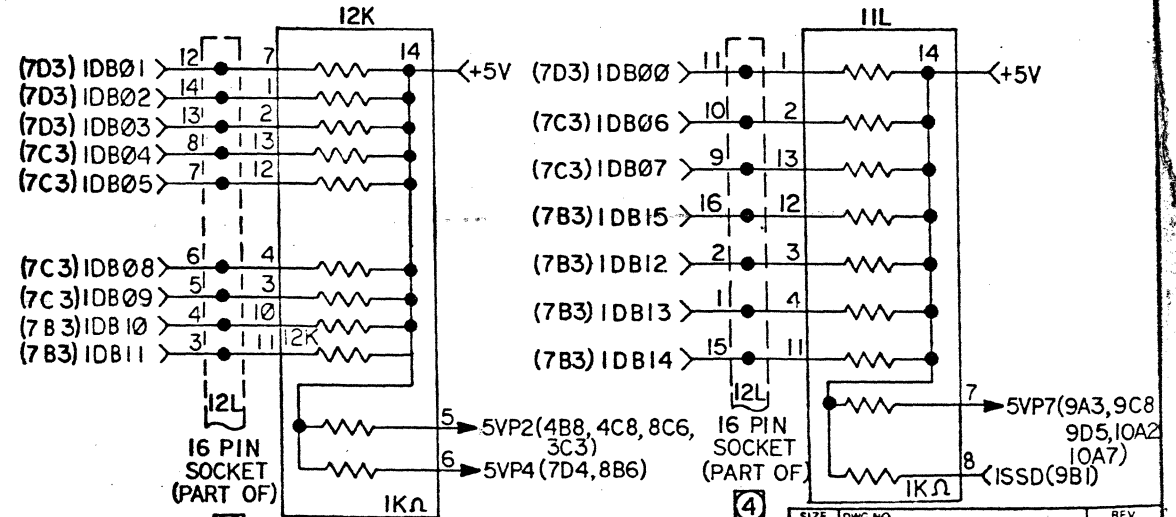
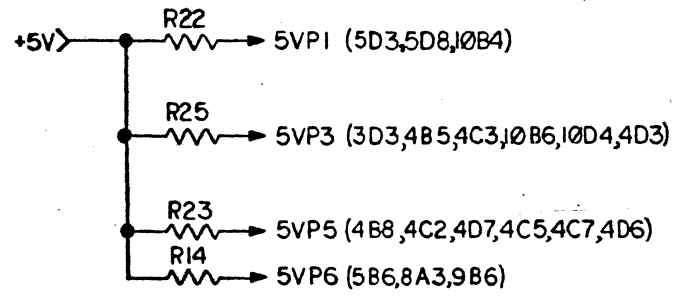
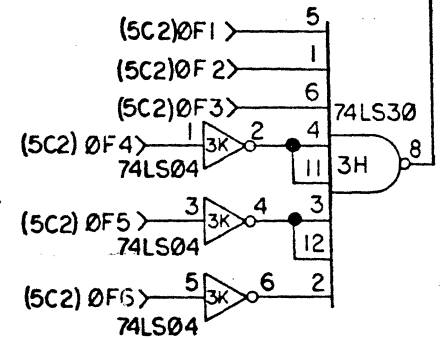
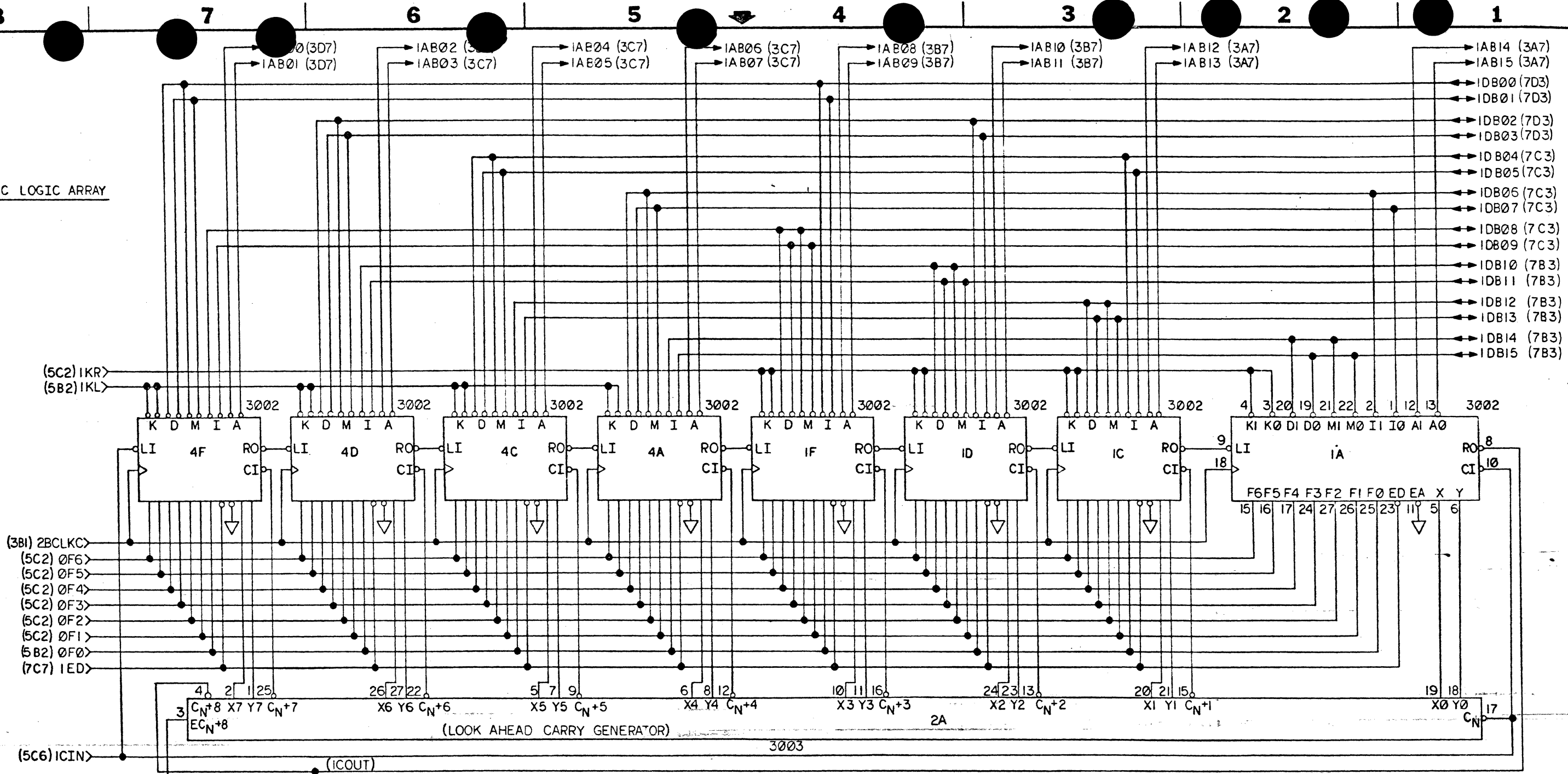


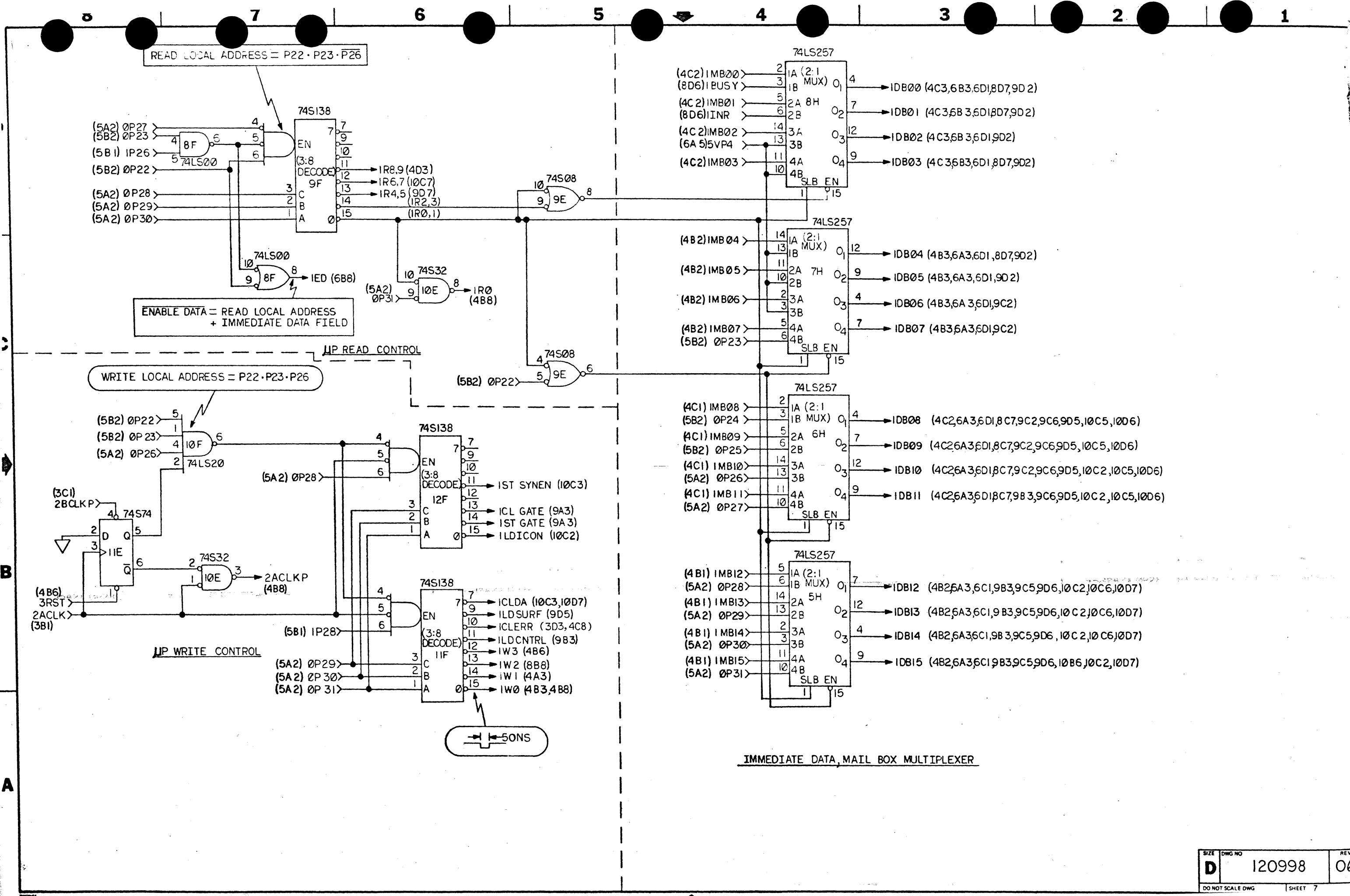
CONDITIONAL BRANCHING (LSB OF ADDRESS CONTROL)

0	ROM OUTPUT
1	ATTENTION
2	BOOT
3	DMA IN PROGRESS
4	DMA OVERLAP
5	ILLEGAL CYL. ADR.
6	FIXED DISK DRIVE
7	DENSE
8	INDEX PULSE
9	SECTOR PULSE
10	MALFUNCTION
11	CHECK CODE ERROR
12	READ SYNCH ENABLE
13	DATA AVAILABLE
14	64 SECTORS/TRACK
15	FAST (2400 RPM)



ARITHMETIC LOGIC ARRAY





READ LOCAL ADDRESS = P22 · P23 · P26

ENABLE DATA = READ LOCAL ADDRESS + IMMEDIATE DATA FIELD

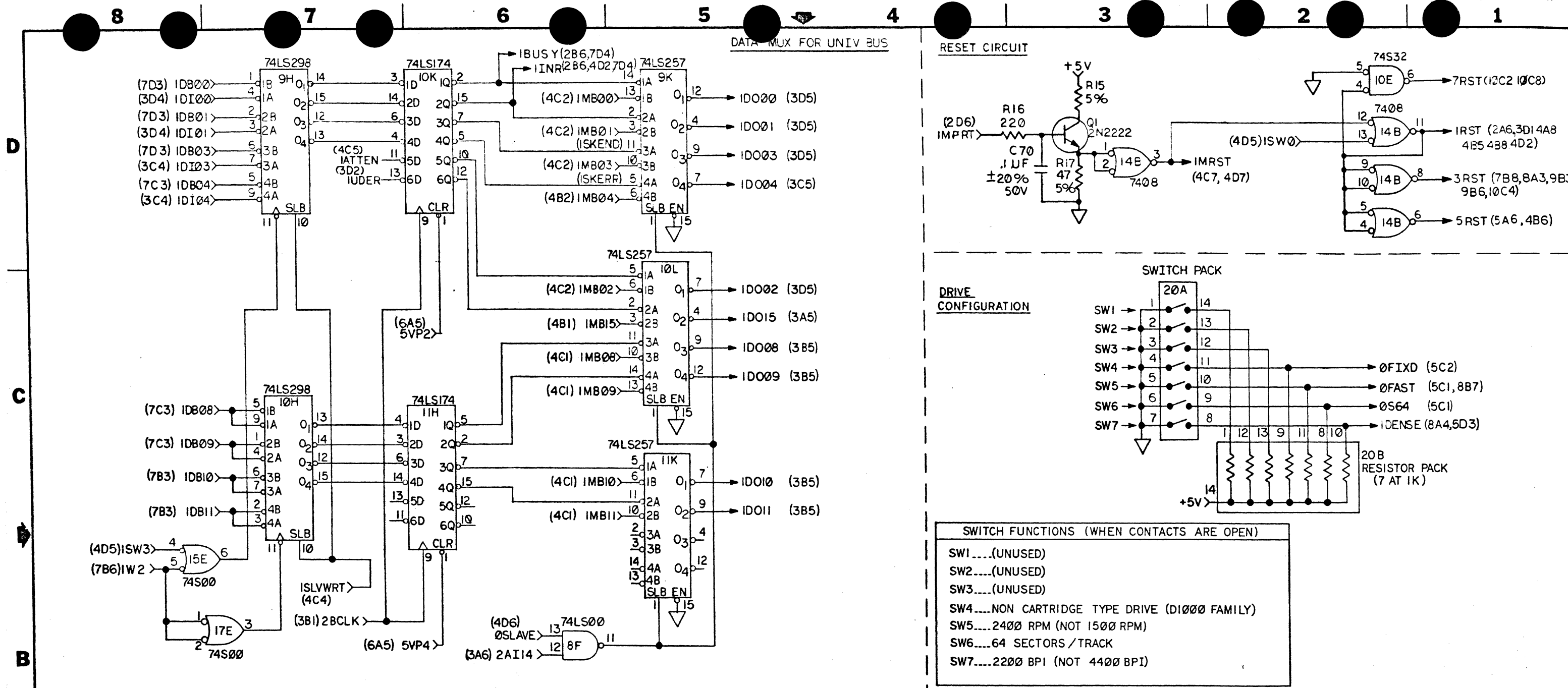
WRITE LOCAL ADDRESS = P22 · P23 · P26

UP WRITE CONTROL

IMMEDIATE DATA, MAIL BOX MULTIPLEXER

50NS

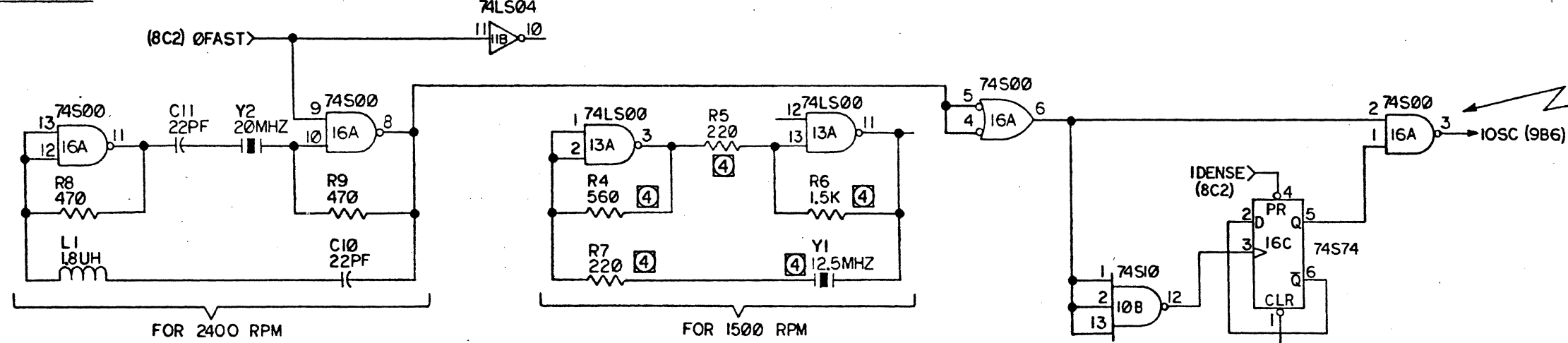




**SWITCH FUNCTIONS (WHEN CONTACTS ARE OPEN)**

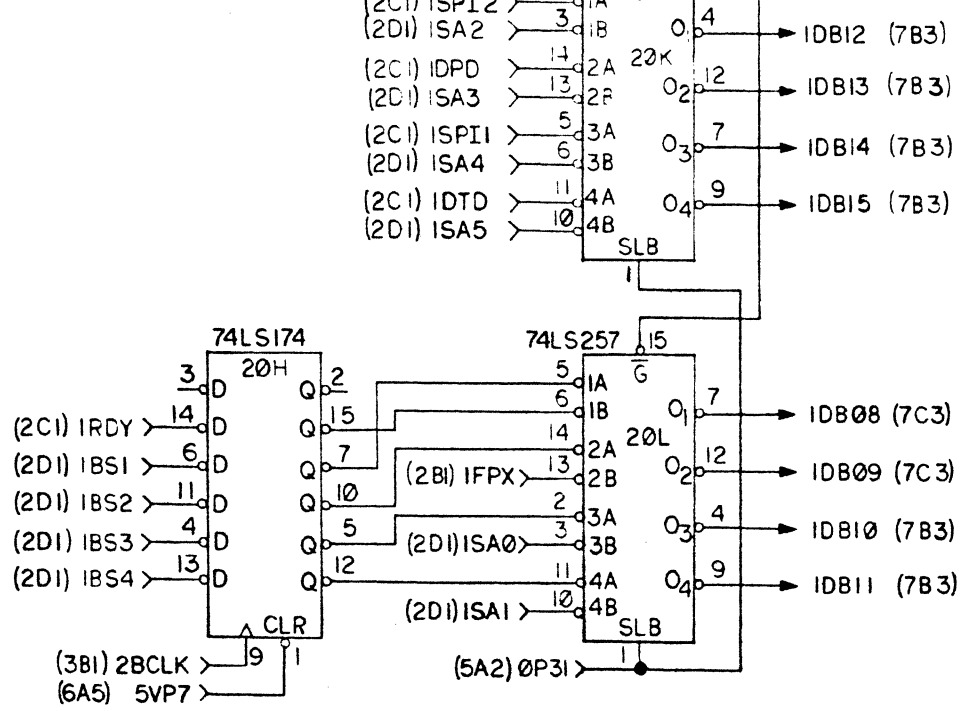
- SW1.....(UNUSED)
- SW2.....(UNUSED)
- SW3.....(UNUSED)
- SW4.....NON CARTRIDGE TYPE DRIVE (DI000 FAMILY)
- SW5.....2400 RPM (NOT 1500 RPM)
- SW6.....64 SECTORS/TRACK
- SW7.....2200 BPI (NOT 4400 BPI)

**OSCILLATOR SELECTION**

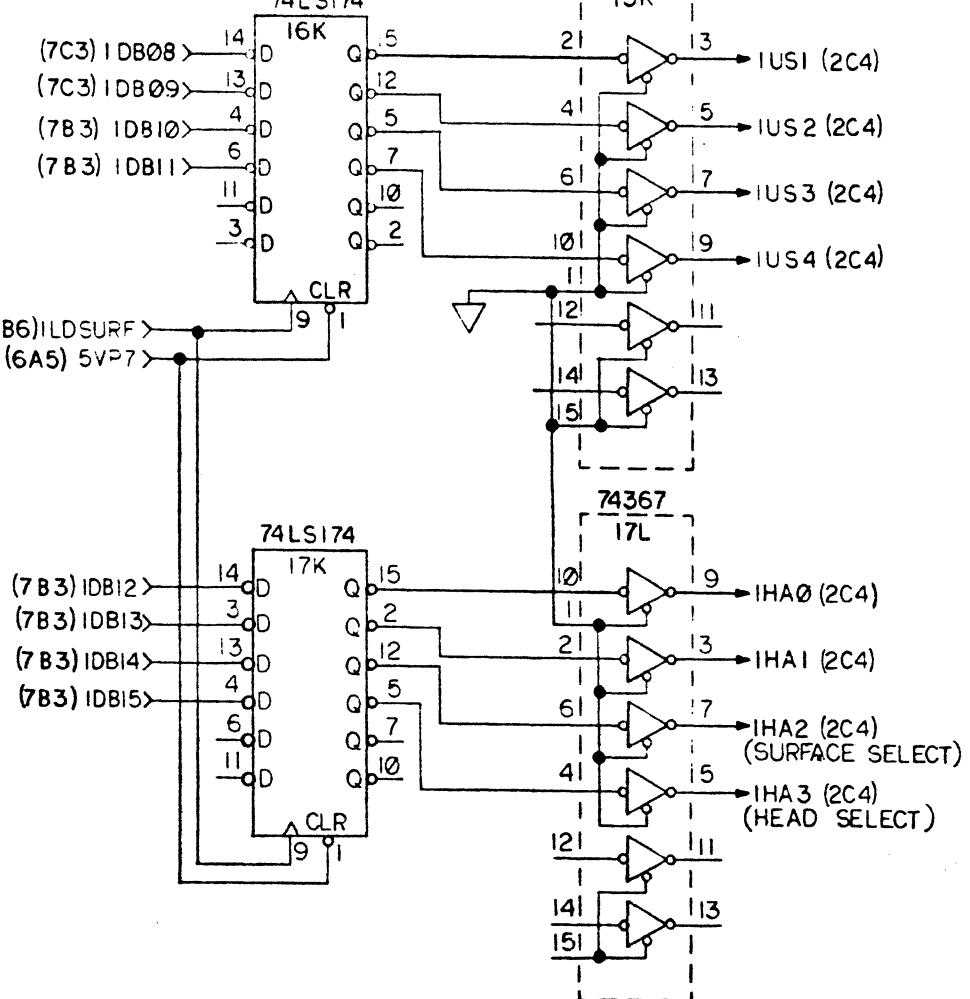


FREQUENCY		
	1500 RPM	2400 RPM
2200 BPI	6.25 MHZ	10 MHZ
4400 BPI	12.5 MHZ	20 MHZ

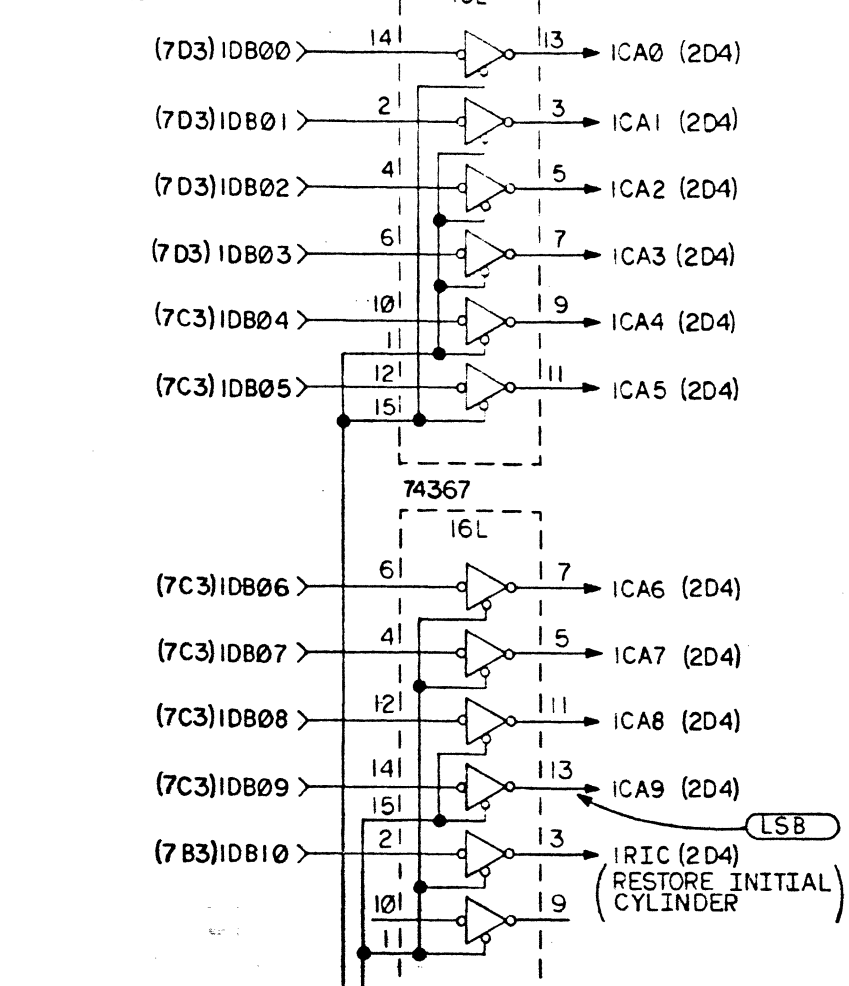
**SECTOR ADDRESS & DRIVE STATUS MUX**



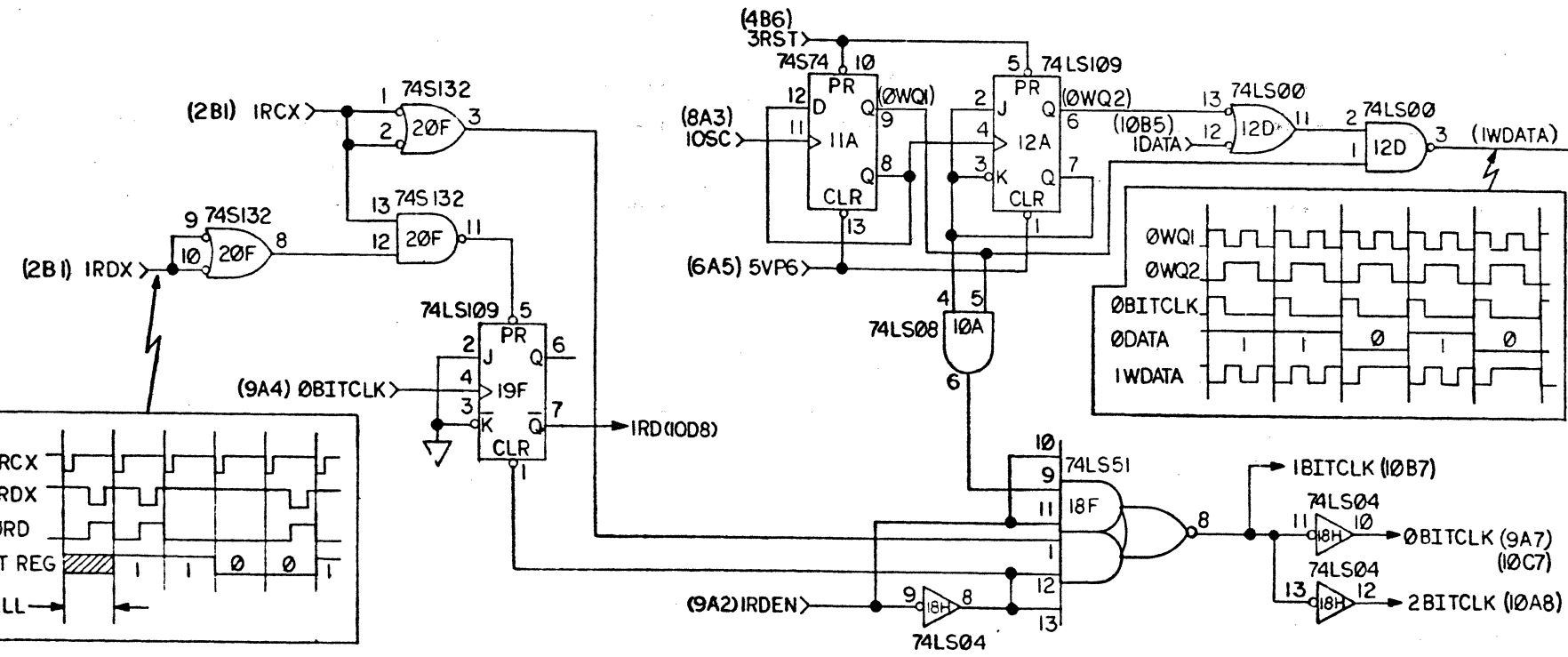
**SURFACE SELECTION REGISTER**



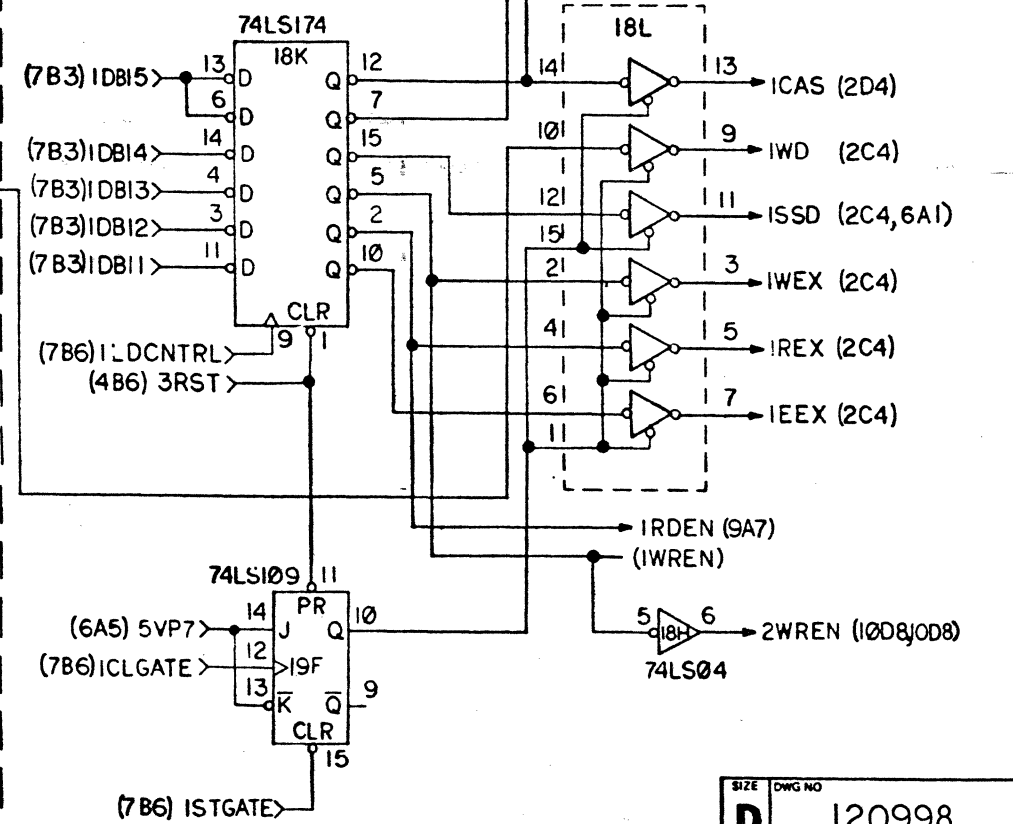
**CYLINDER ADDRESS DRIVERS**



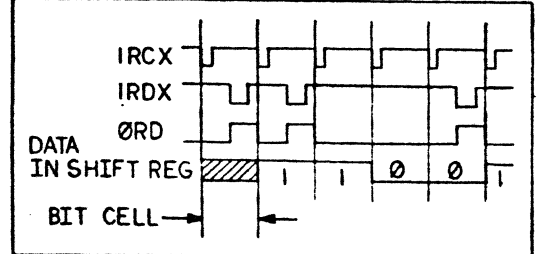
**B**

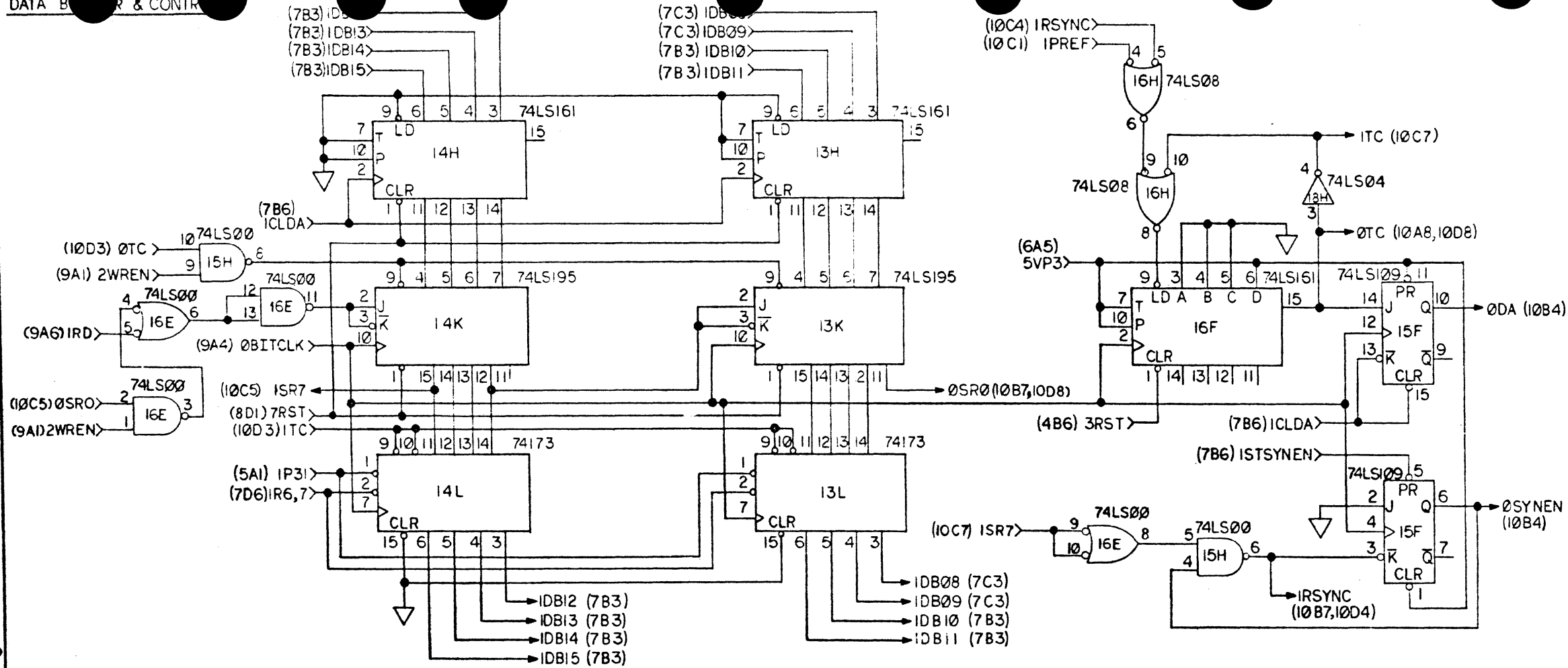


**DISK DRIVE CONTROL REGISTER**

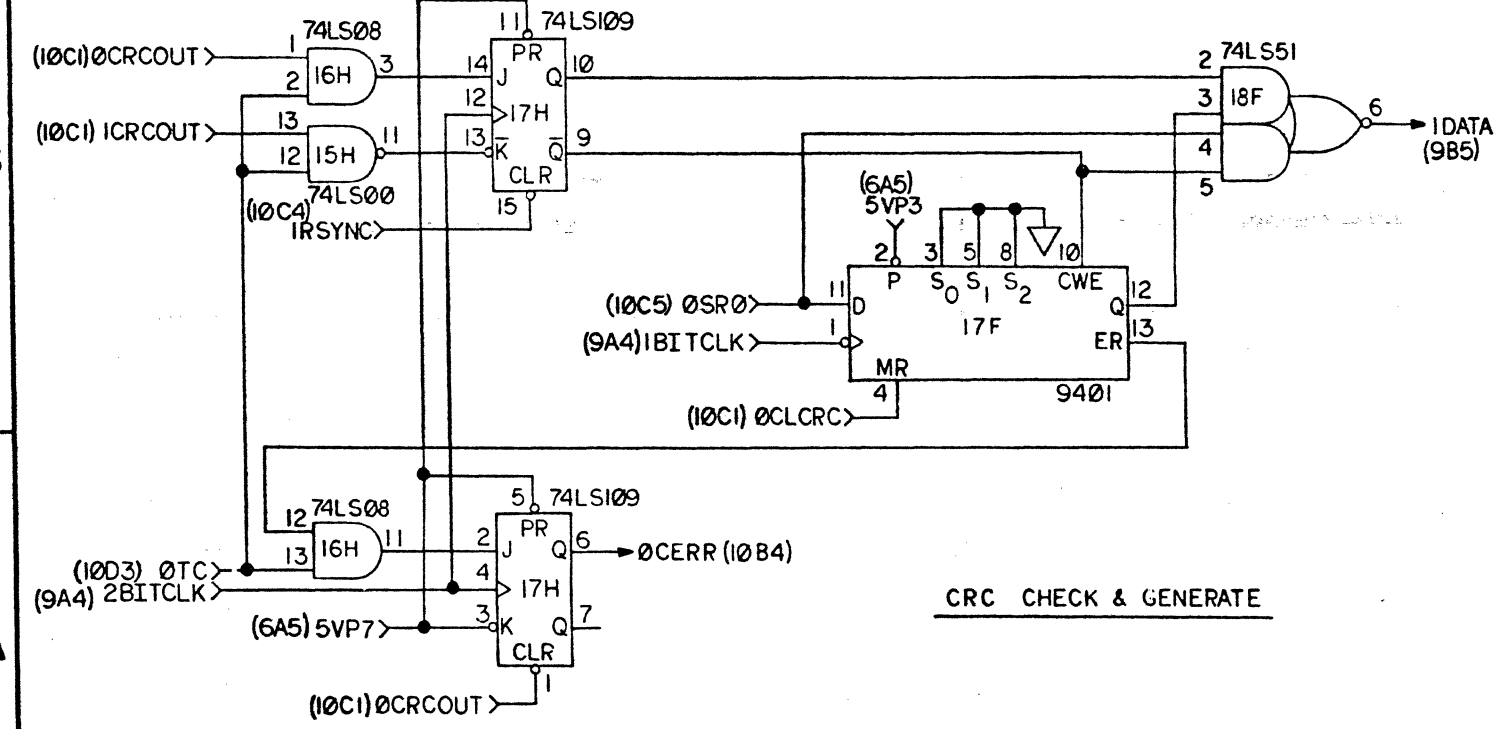
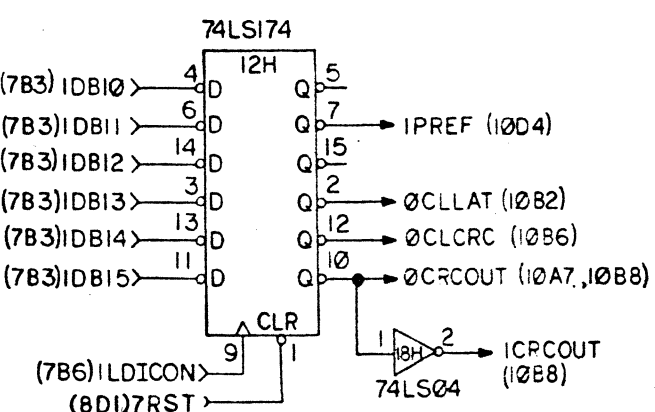


**A**

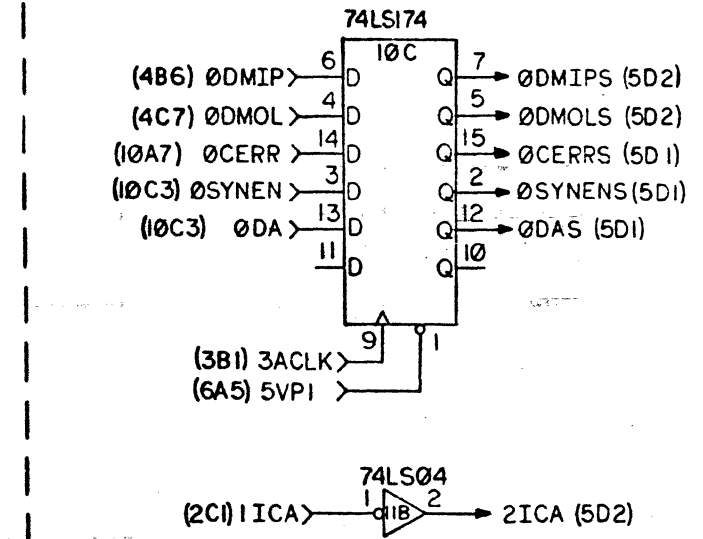




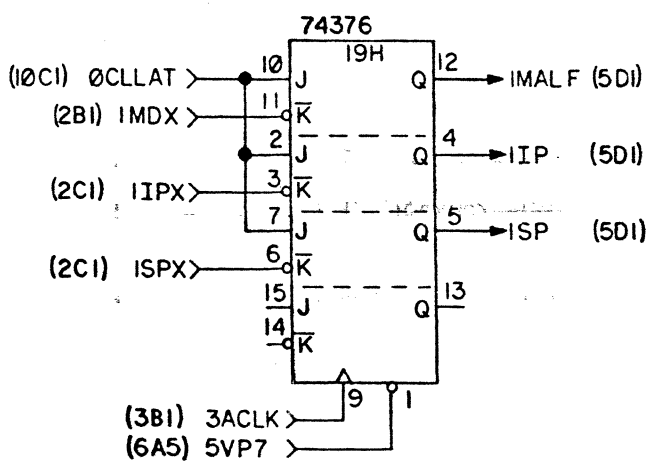
INTERNAL CONDITIONS



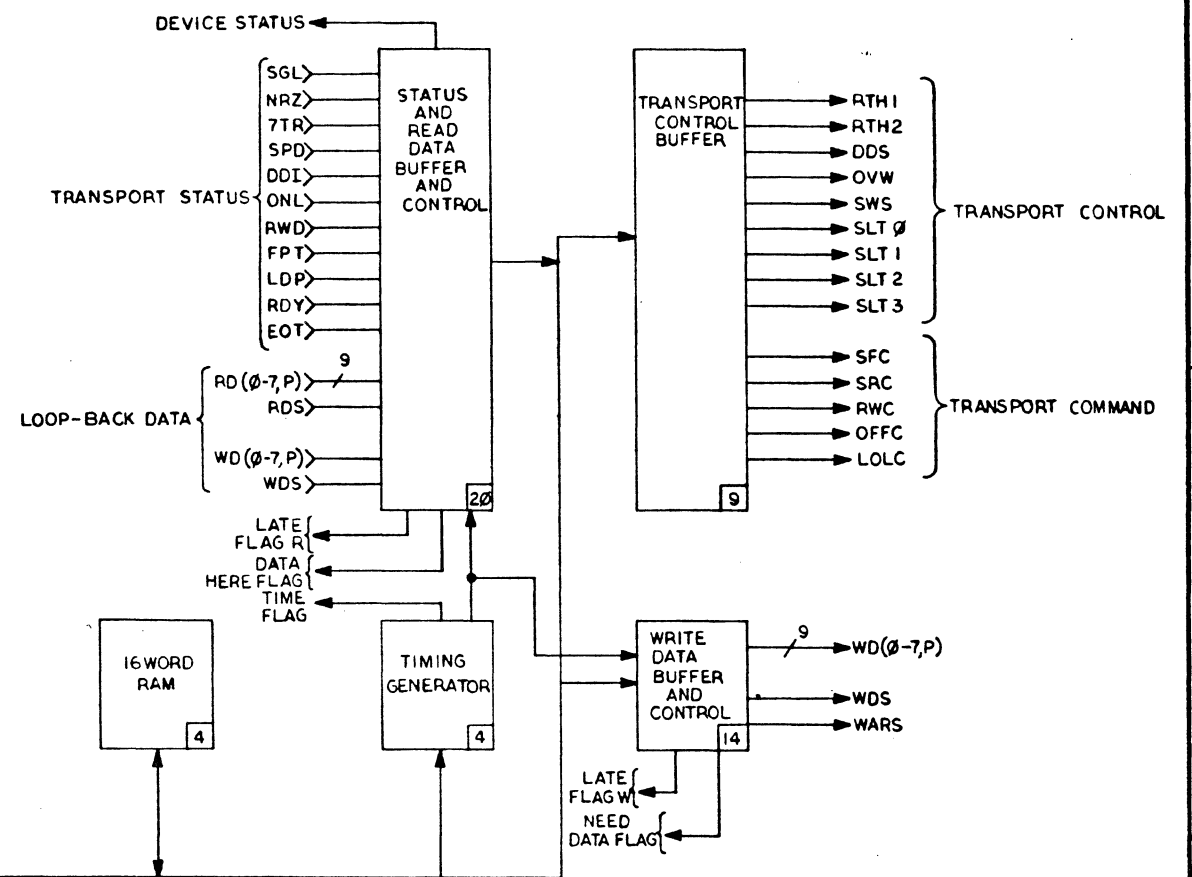
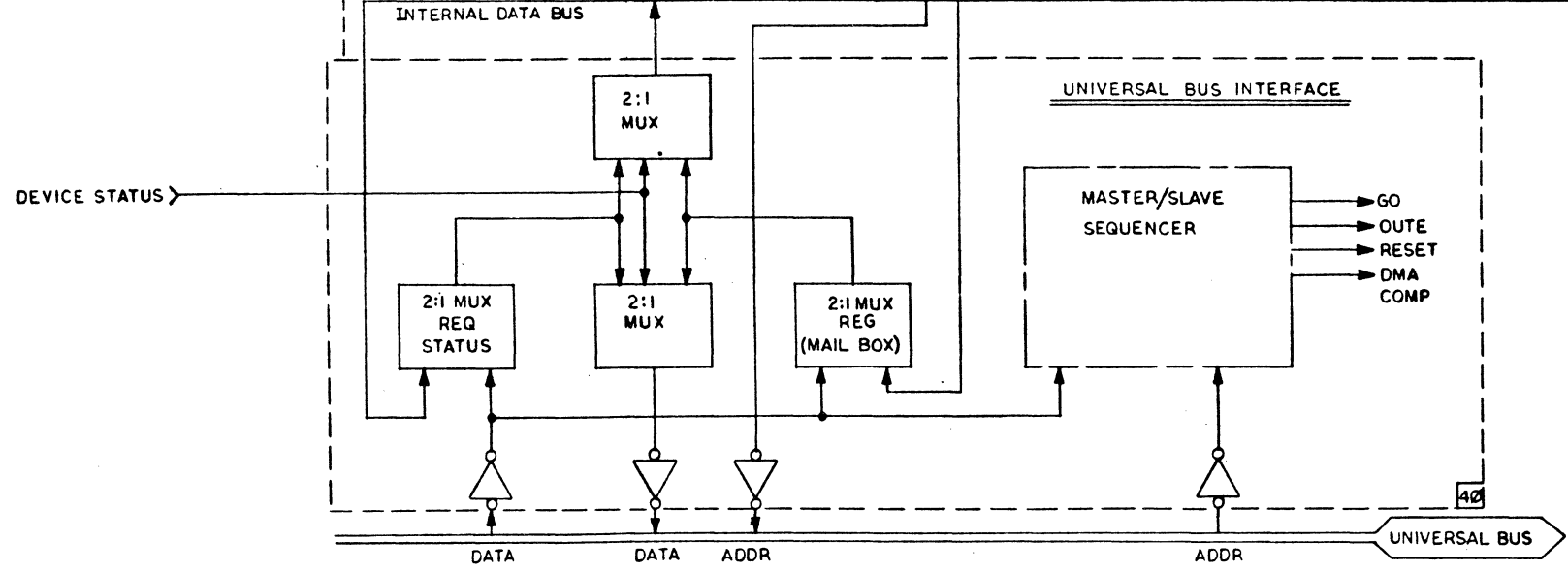
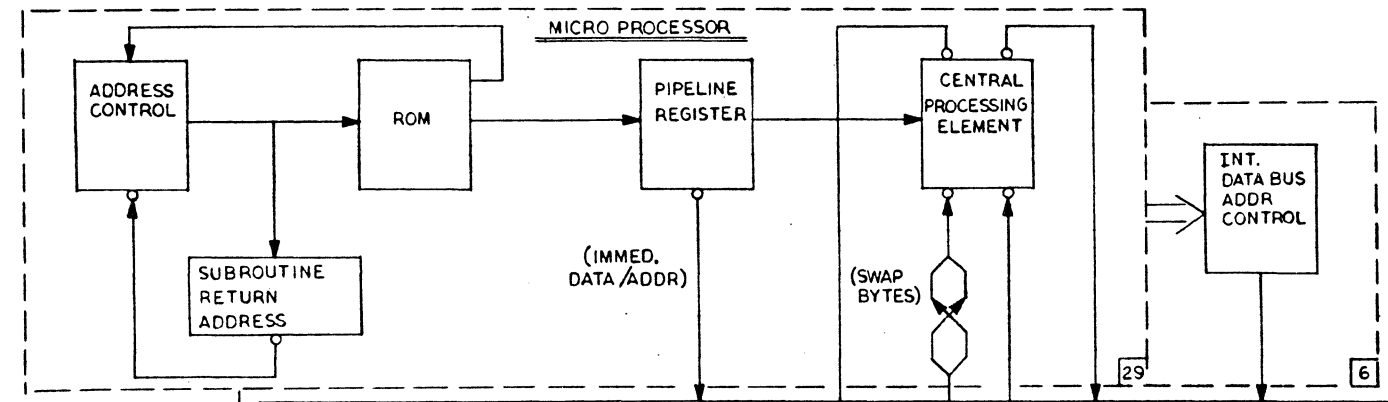
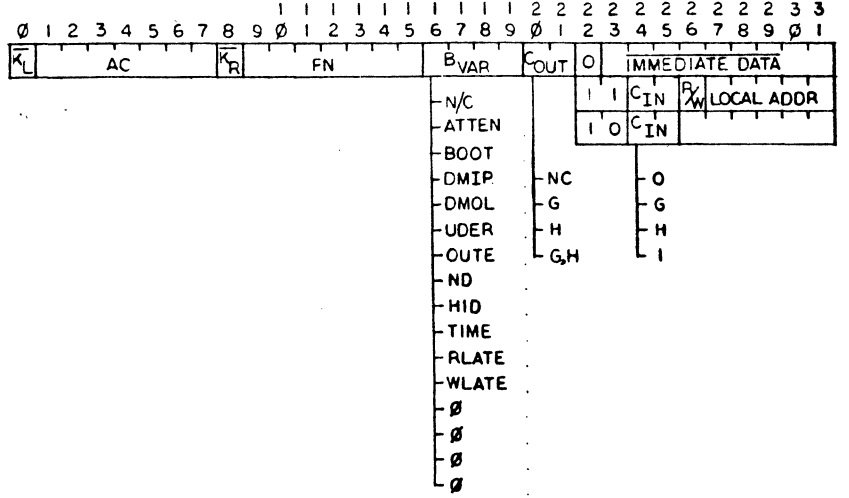
CRC CHECK & GENERATE



SYNCHRONIZING LATCHES



8 7 6 5 4 3 2 1



STATUS SWITCH DEFINITIONS		
SWITCH	ON	OFF *
1	7 TRACK	9 TRACK
2	NRZI	PE
3	SINGLE	DUAL
4	HI SPD	LO SPD
5	NOT USED	NOT USED
6	HI DEN	LO DEN
7	NOT USED	NOT USED
8	NOT USED	NOT USED

\* OFF ALLOWS TAPE TRANSPORT TO DEFINE STATE OF THE STATUS BIT. BIT 6 DDI ALL TRANSPORTS EXCEPT 7 TRACK. (GROUND THIS BIT ALL THE TIME.)

② NOT STUFFED.  
1. ALL RESISTOR VALUES ARE IN OHMS ±10%, 1/4W  
NOTES: UNLESS OTHERWISE SPECIFIED

REV	DESCRIPTION	BY	DATE	APPROVED
09	INCORP DCO 07945	DD	11/23	11/24/73
08	INCORP DCO 06349	BM	5/23	11/14/73
07	CODE 10 REL W/O CHANGE PER DCO 06424	Egw	2/23	11/17/73
06	INCORP DCO 05659	NK	10/23	6/14/73
05	INCORP DCO 05562	NK	11/23	5/17/73
04	INCORP DCO 05512	NK	10/23	2/20/73
03	INCORP DCO 05424	Dnt	11/23	11/21/73
02	INCORP DCO 05424			
01	RELEASE PER D.R.O. 704-76			

REV	DESCRIPTION	DRFTG	APPVD	DATE	NEXT ASSY	QTY	MODEL	QTY
09	INCORP DCO 07945	DD	11/23	11/24/73				
08	INCORP DCO 06349	BM	5/23	11/14/73				
07	CODE 10 REL W/O CHANGE PER DCO 06424	Egw	2/23	11/17/73				
06	INCORP DCO 05659	NK	10/23	6/14/73				
05	INCORP DCO 05562	NK	11/23	5/17/73				
04	INCORP DCO 05512	NK	10/23	2/20/73				
03	INCORP DCO 05424	Dnt	11/23	11/21/73				
02	INCORP DCO 05424							
01	RELEASE PER D.R.O. 704-76							

SHEET	12													
REV	07													
REV STATUS OF SHEETS		SHEET	1	2	3	4	5	6	7	8	9	10	11	
		REV	11	09	11	11	09	11	09	07	09	09	07	
DRAWN	PERTEC BUSINESS SYSTEMS DIVISION													
CHECK	TITLE SCHEM, PCBA MAG TAPE CONTROLLER													
APPR	CODE IDENT NO D SIZE DWG NO 10 D 120999 REV 11													
RELEASE	SCALE NONE DO NOT SCALE DWG SHEET 1 OF 12													

8

7

6

5

4

3

2

1

P100

A30 → IAD00 (306)  
 B30 → IAD01 (306)  
 A31 → IAD02 (306)  
 B31 → IAD03 (306)  
 A32 → IAD04 (306)  
 B32 → IAD05 (306)  
 A33 → IAD06 (306)  
 B33 → IAD07 (306)  
 A34 → IAD08 (3B6)  
 B34 → IAD09 (3B6)  
 A35 → IAD10 (3B6)  
 B35 → IAD11 (3B6)  
 A36 → IAD12 (3A6)  
 B36 → IAD13 (3A6)  
 A37 → IAD14 (3A6)  
 B37 → IAD15 (3A6)

A21 → ID00 (3D4)  
 B21 → ID01 (3D4)  
 A22 → ID02 (3D4)  
 B22 → ID03 (3C4)  
 A23 → ID04 (3C4)  
 B23 → ID05 (3C4)  
 A24 → ID06 (3C4)  
 B24 → ID07 (3C4)  
 A25 → ID08 (3B4)  
 B25 → ID09 (3B4)  
 A26 → ID10 (3B4)  
 B26 → ID11 (3B4)  
 A27 → ID12 (3A4)  
 B27 → ID13 (3A4)  
 A28 → ID14 (3A4)  
 B28 → ID15 (3A4)

A04 → (+12V)  
 B04 → (+12V)  
 A05 → (+15V)  
 B05 → (+15V)  
 A07 → (+15V)  
 B07 → (+15V)  
 A08 → (+15V)  
 B08 → (+15V)  
 A44 → (-12V)  
 B44 → (-12V)  
 A45 → (-5V)  
 B45 → (-5V)

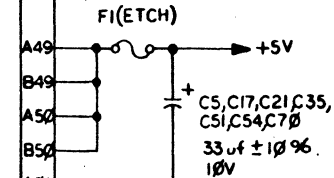
P100

A03  
 B03  
 A06  
 B06  
 A09  
 B09  
 A10  
 B10  
 A11  
 B11  
 A13  
 B13  
 A14  
 B14  
 A15  
 B15  
 A16  
 B16

SPARES

P100

B20 → IDERR (3D3)  
 B11 → IMCYC (4A4,4A8)  
 B10 → IMACK (4D5,4B8)  
 B12 → IMWRT (4B8,4A4)  
 A42 → IBRQ1 (4A4)  
 A40 → IGIN1 (4A8)  
 B40 → IGOT1 (4A4)  
 A41 → IGIN2  
 B41 → IGOT2  
 A12 → IINRA (4C4)  
 B16 → IMPRT (4C8)  
 A48 → IACKL (4B8)  
 B48 → IBCLK (4A8)  
 B18 → ICLKH (3B3)  
 B19 → ICTST (3C2)



P100

A17  
 B17  
 A18  
 B18  
 A19  
 B19  
 A20  
 B20  
 A29  
 B29  
 A38  
 B38  
 A39  
 B39  
 A42  
 B42  
 A43  
 B43

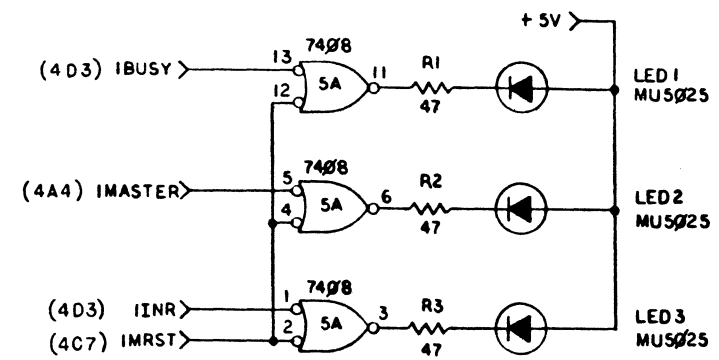
SPARES

P203

B18 → IRWD (9C7)  
 A18  
 B21 → IFPT (9C7)  
 A21  
 B20 → ILDP (9C7)  
 A20  
 B19 → IRDY (9C7)  
 A19  
 B13 → IEOT (9C7)  
 A13  
 B01 → ISLT3 (8C1)  
 A01  
 B02 → ISLT2 (8C1)  
 A02  
 B03 → IRDP (9B7)  
 A03  
 B04 → IRDS (9B7)  
 A04  
 B05 → IRD0 (9B7)  
 A05  
 B06 → IRD1 (9B7)  
 A06  
 B07 → IRD2 (9B7)  
 A07  
 B08 → IRD3 (9B7)  
 A08  
 B15 → INR2 (9D7)  
 A15  
 B16 → I7TR (9D7)  
 A16  
 B17 → ISPD (9D7)  
 A17  
 B09 → IRD4 (9A7)  
 A09  
 B10 → IRD5 (9A7)  
 A10  
 B11 → IRD6 (9A7)  
 A11  
 B12 → IRD7 (9A7)  
 A12  
 B14 → ISGL (9D7)  
 A14  
 B24 → 2RI4,15 (7D5)  
 B23 → 2RI2,13 (7D5)  
 A23 → IRENI (7D1)  
 A22 → IRGATE (7D1)  
 A25 → +5V  
 B25 → +5V

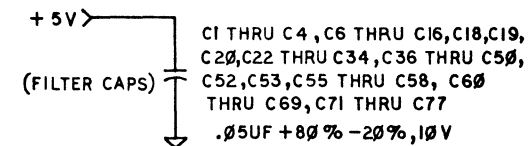
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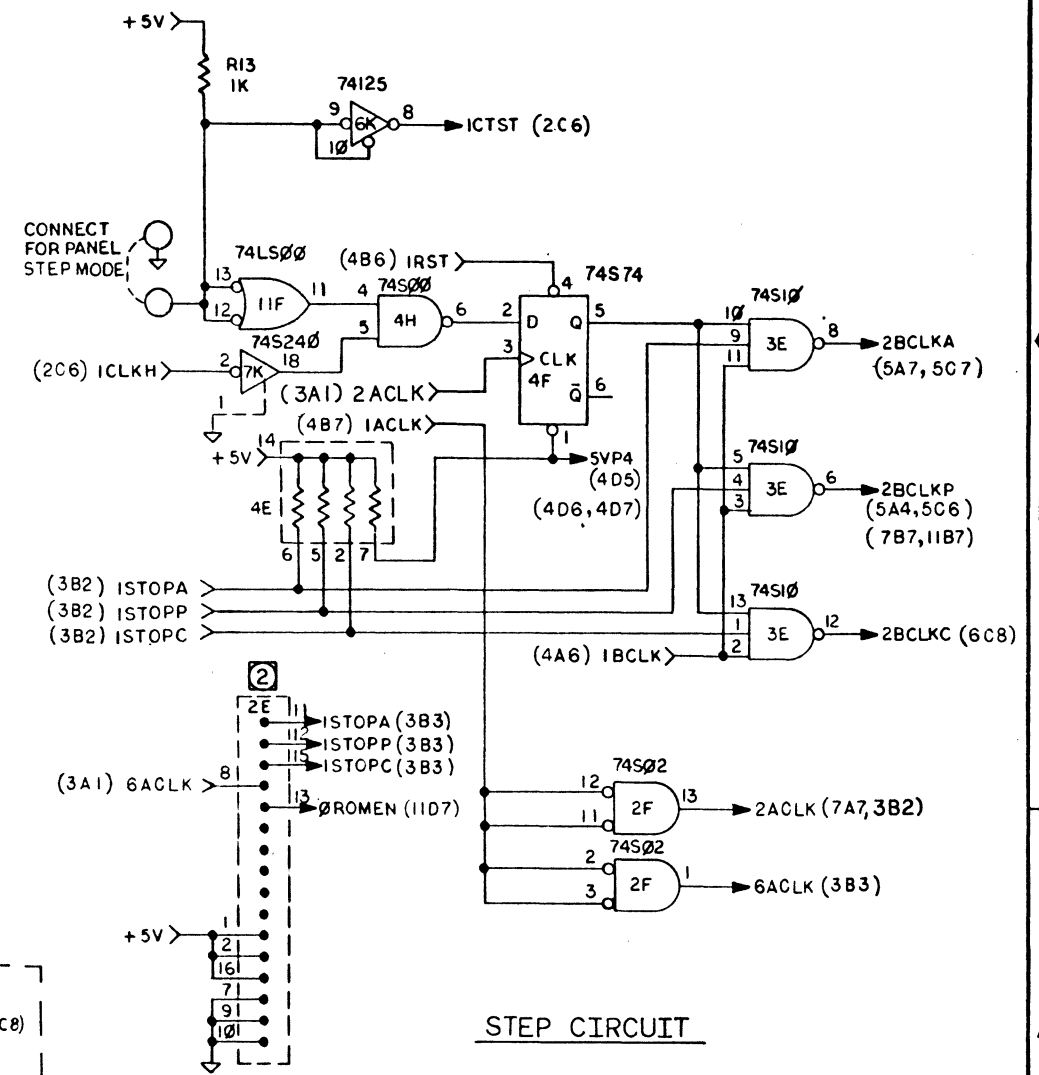
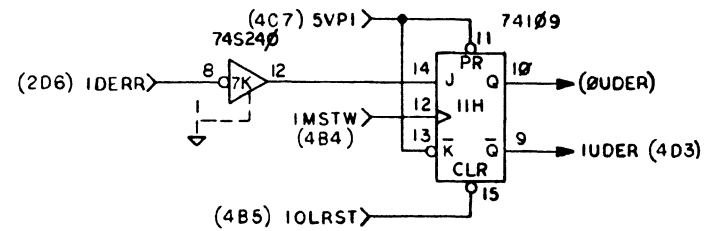
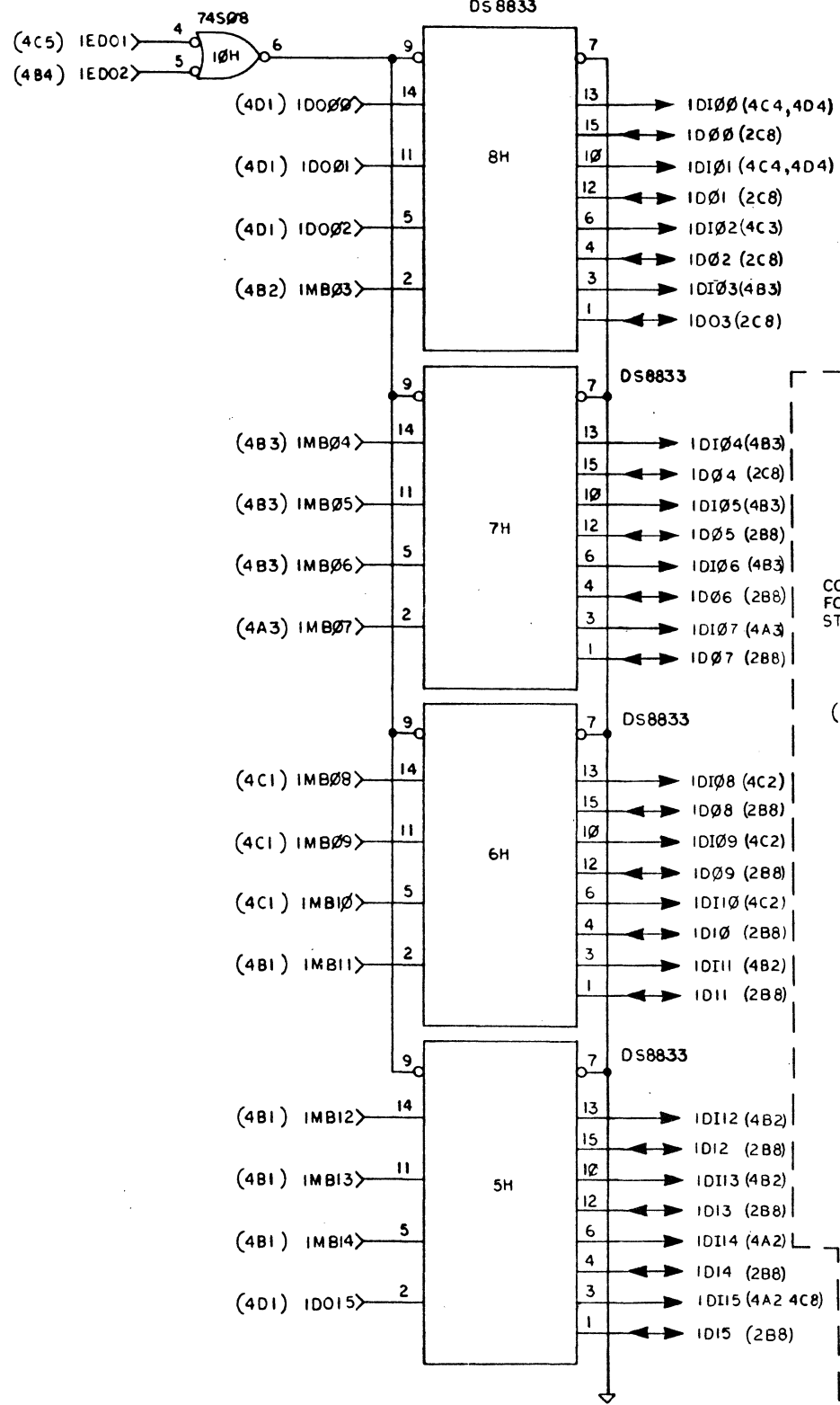
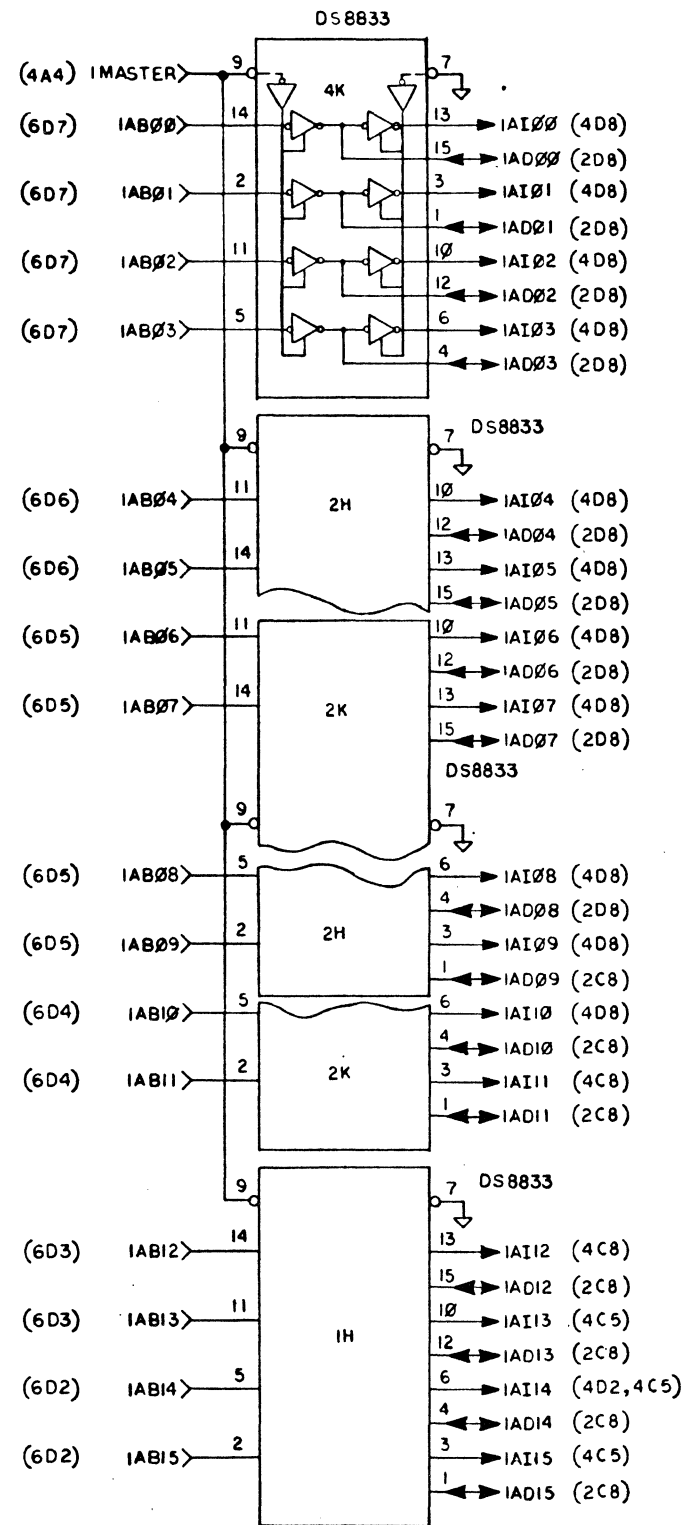
B12 → IWDS (8A4)  
 A12  
 B09 → IWARS (8A4)  
 A09  
 B01 → IRTI (8D1)  
 A01  
 B04 → IRT2 (8D1)  
 A04  
 B15 → IWDP (8D5)  
 A15  
 B16 → IWDP (8D5)  
 A16  
 B17 → IWDP (8C5)  
 A17  
 B18 → IWDP (8C5)  
 A18  
 B19 → IWDP (8C5)  
 A19  
 B20 → IWDP (8C5)  
 A20  
 B21 → IWDP (8C5)  
 A21  
 B22 → IWDP (8C5)  
 A22  
 B23 → IWDP (8B5)  
 A23  
 B07 → ILOLC (8B1)  
 A07  
 B13 → ISLT1 (8C1)  
 A13  
 B03 → IOVW (8D1)  
 A03  
 B10 → ISFC (8C1)  
 A10  
 B02 → IDDS (8D1)  
 A02  
 B06 → ISRC (8C1)  
 A06  
 B25 → IDDI (9D7)  
 A25  
 B11 → IRWC (8C1)  
 A11  
 B14 → ISLT0 (8C1)  
 A14  
 B05 → ISWS (8D1)  
 A05  
 B08 → IOFFC (8B1)  
 A08  
 B24 → IONL (9C7)  
 A24



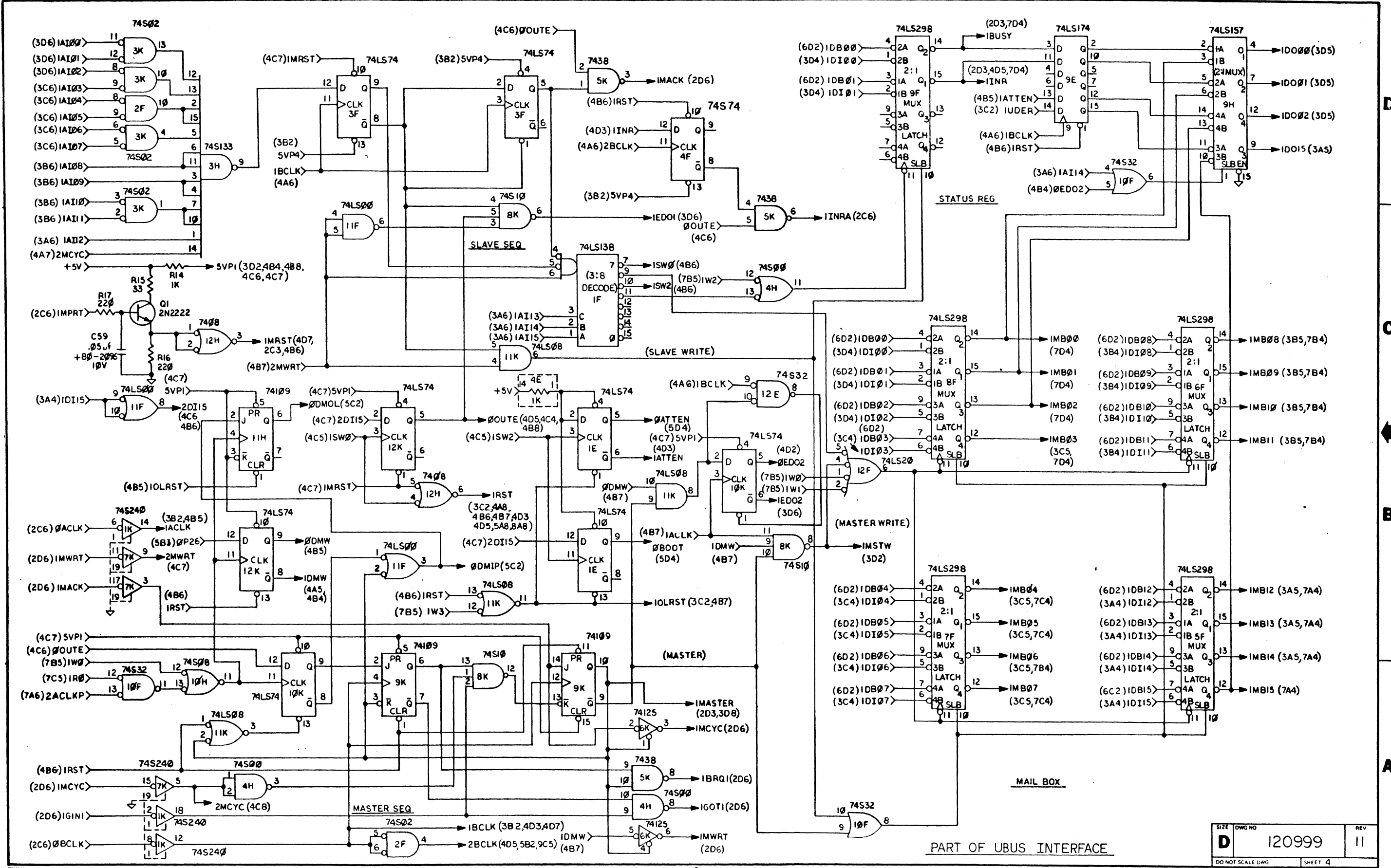
SPARE IC BLOCK	
IC TYPE	SPARE GATES
74LS00	15H - ①, 9, 10
74LS02	15A - ④, 5, 6, 8, 9, ⑩, 11, 12, ⑬
74S04	11D - ⑧, 9, ⑩, 11
7408	5A - ⑧, 9, 10
74S08	10H - 1, 2, ③, ④, 9, 10
74LS08	21D - ①, 12, 13
74S10	14A - ⑧, 9, 10, 11
74LS14	17H - ②, 13 14K - ⑧, 9
74LS20	12F - ⑧, 9, 10, 12, 13
74S32	12E - ⑧, 9, 10
7438	5K - ①, 12, 13
74S74	16B - ⑧, 9, 10, 11, 12, 13
74125	6K - ①, 12, 13
74S139	12D - 1, 2, ③, ④, ⑤, ⑥, ⑦
74368	19E - ⑧, 10 19H - 2, ③, ④, 10 20K - 2, ③, ④, 10 21K - ⑧, 10
* 74S240	1K-4, ⑥, 11, ⑨, 13, ⑦, 15, ⑤, 17, ③ 7K-4, ⑥, 6, ⑬, 13, ⑦
SPARE IC LOCATIONS	
7A, 16A, 18A, 20A, 17B, 18B, 19B, 20B, 21B, 18D, 23D, 23E	

\* NOTE: INPUTS TO THESE SPARE GATES ARE CONNECTED TO GROUND

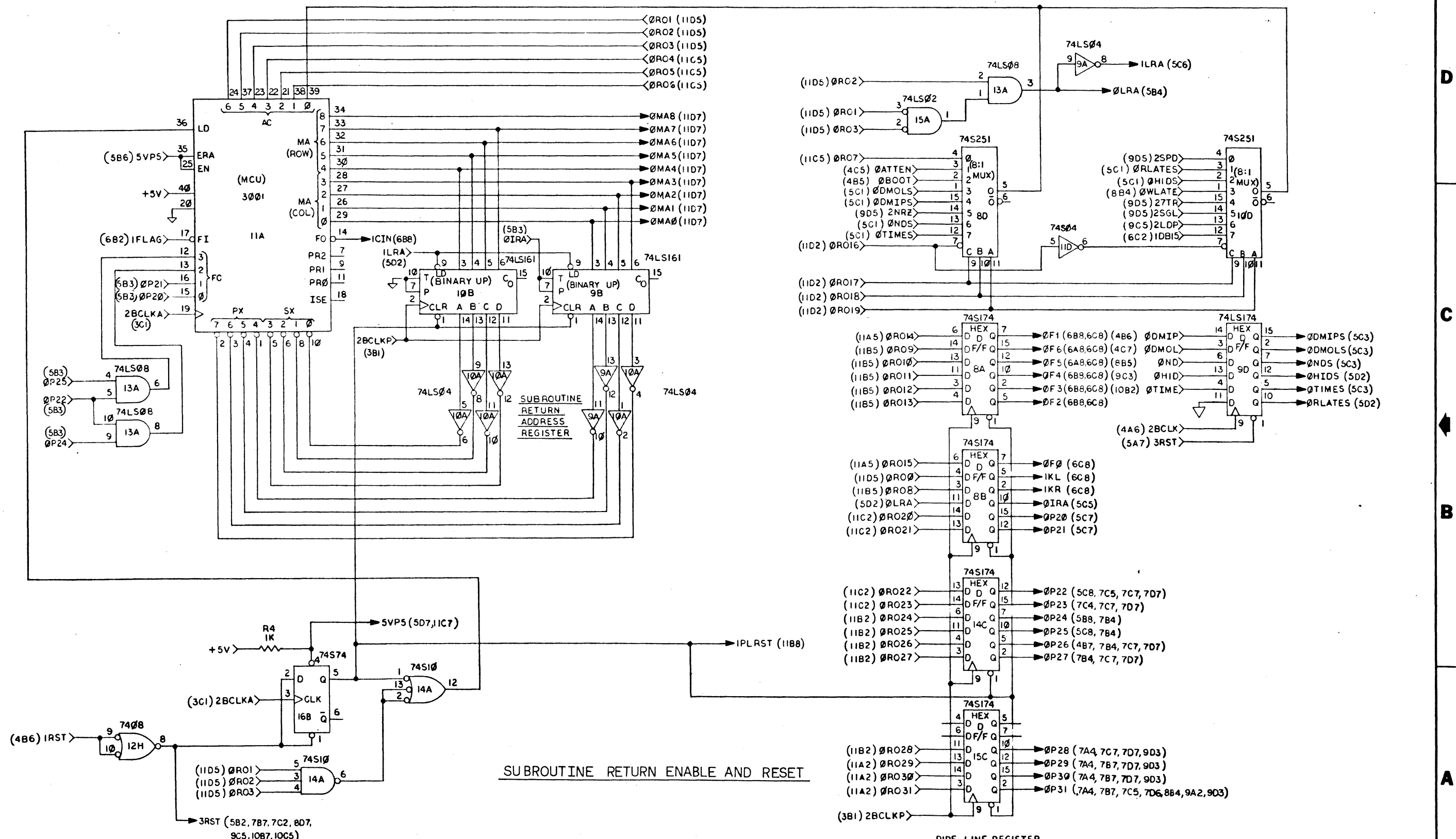




PART OF UBUS INTERFACE



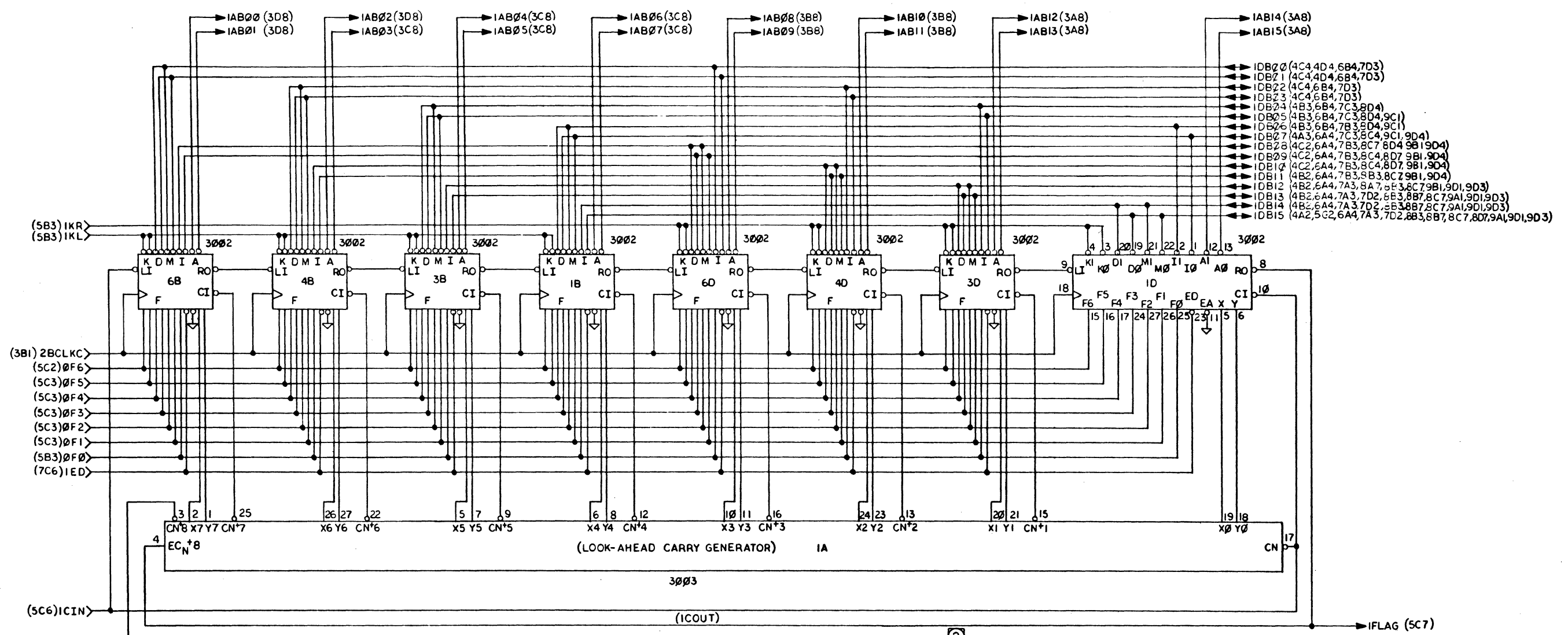
PART OF UBUS INTERFACE



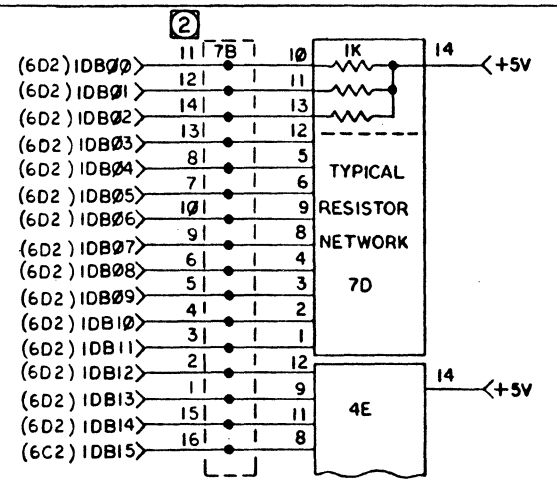
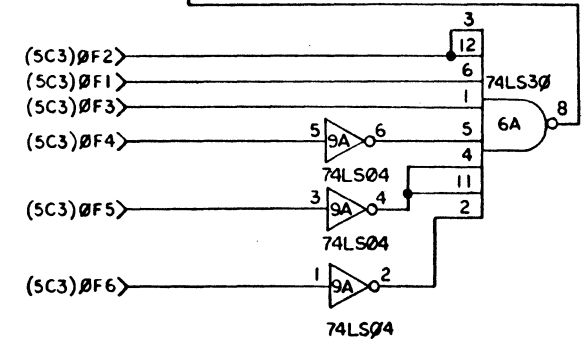
D  
C  
B  
A

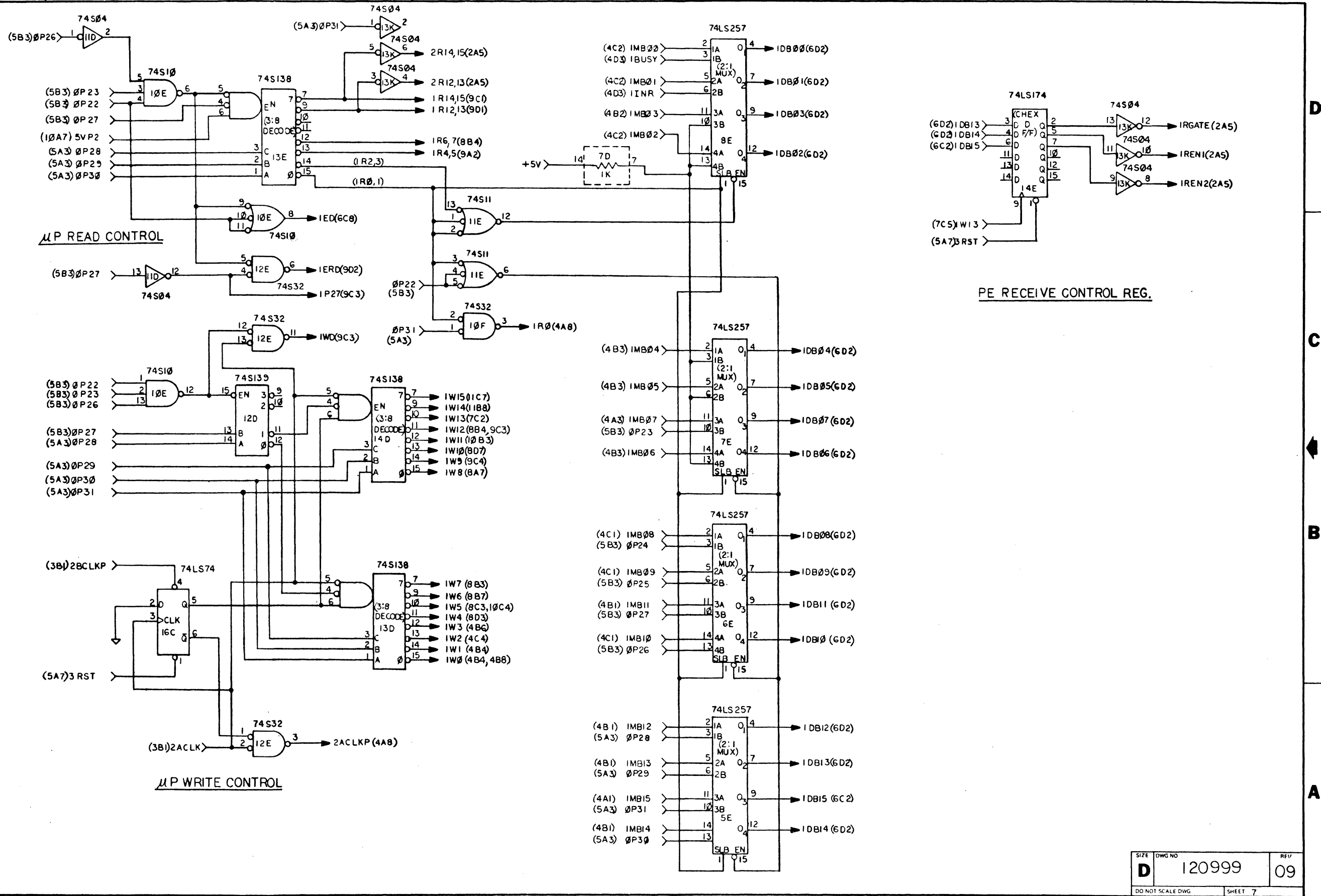


8 7 6 5 4 3 2 1



CENTRAL PROCESSING ELEMENT

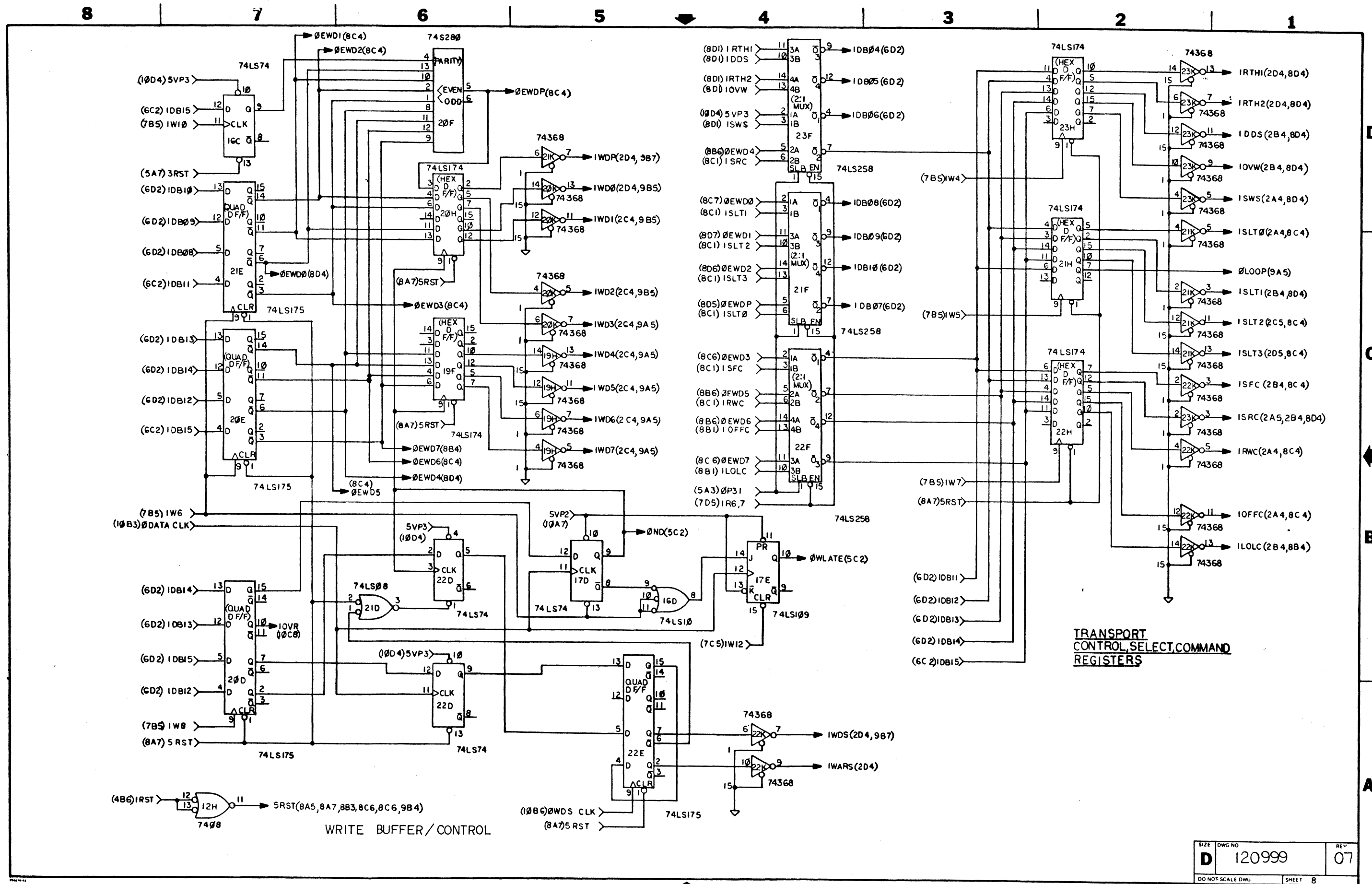


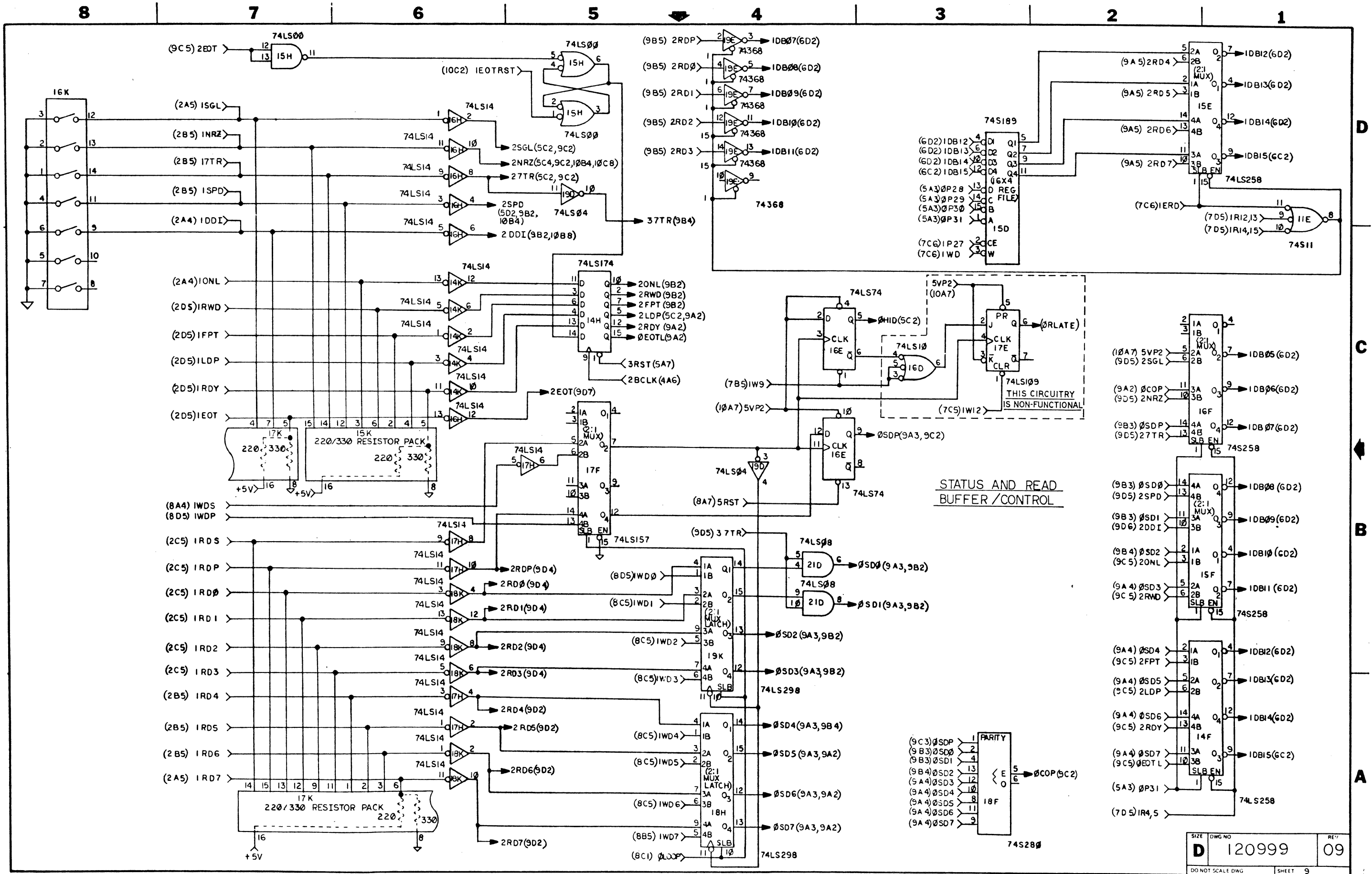


μP READ CONTROL

μP WRITE CONTROL

PE RECEIVE CONTROL REG.





8

7

6

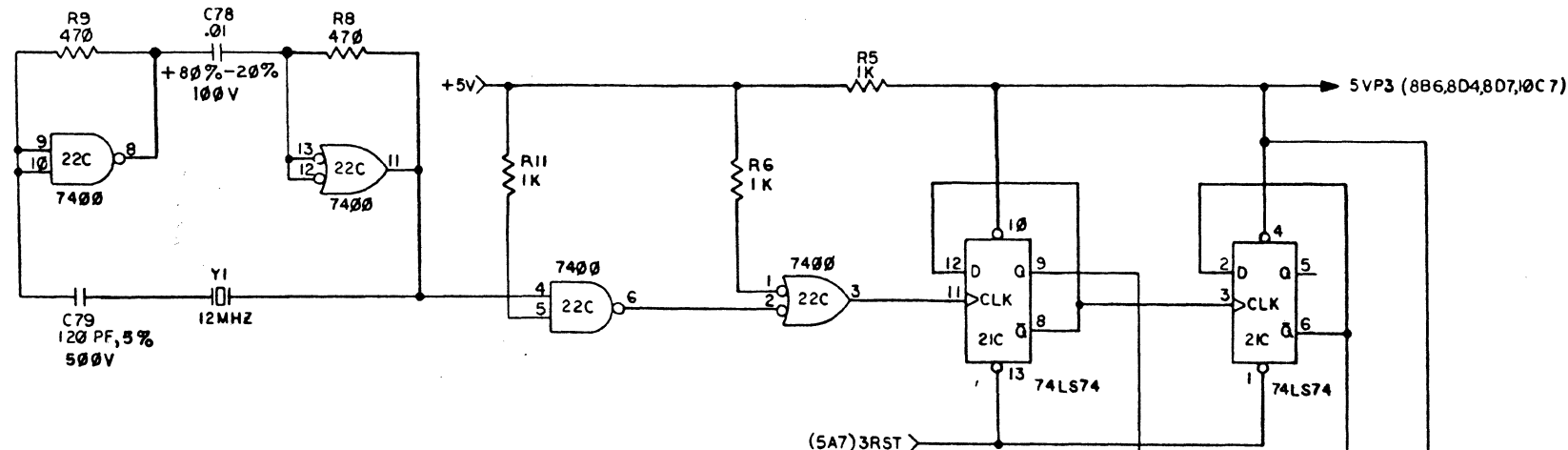
5

4

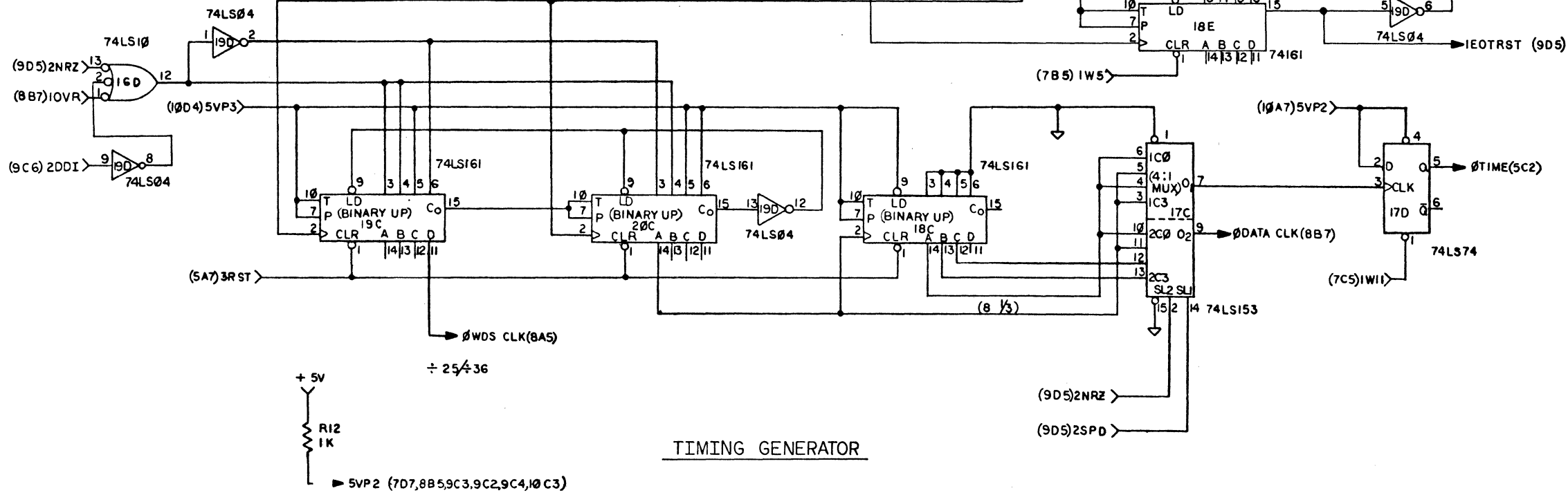
3

2

1



2NRZ	2SPD	DATA CLK	TIME
0	1	8/3	8/3
0	0	16 2/3	16 2/3
1	1	33 1/3	8 1/3
1	0	66 2/3	16 2/3



TIMING GENERATOR

D

C

B

A

8

7

6

5

4

3

2

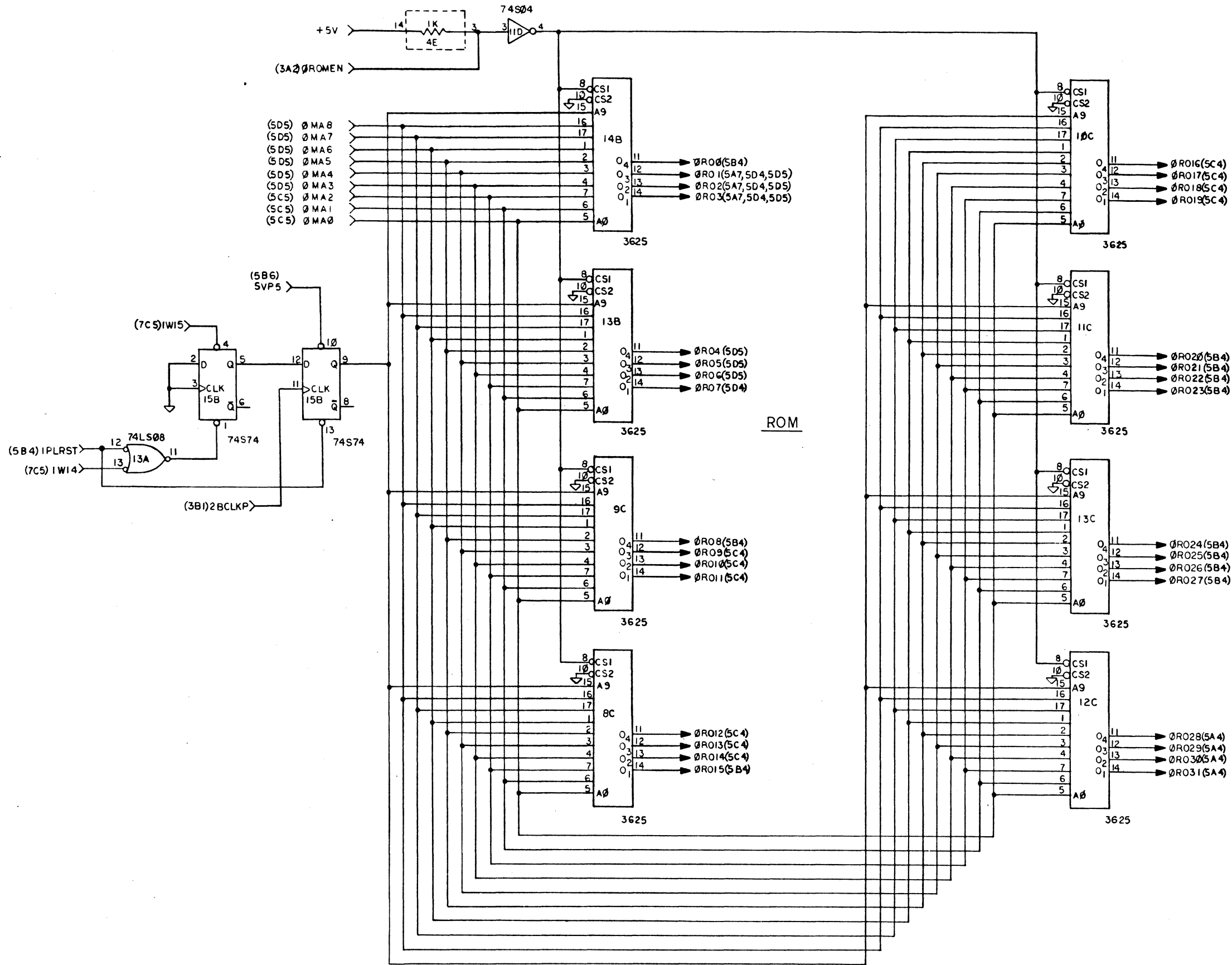
1

D

C

B

A



8

7

6

5

4

3

2

1

READ REGISTER BIT DEFINITIONS

BIT	R0,1	R2,3	R4	R5	R6	R7
	$\emptyset$ = DMA REQ					
0	MB0	BUSY				
1	1	INR				
2	2					
3	3					
4	4				RTH1	DDS
5	5			SGL	RTH2	OVW
6	6		C PAR ODD	NRZ		SWS
7	7		R/WDP	7TR	WDP	SLT0
8	8		R/WDP	SPD	WD0	SLT1
9	9		R/WDP	DDI	WD1	SLT2
10	10		R/WDP	ONL	WD2	SLT3
11	11		R/WDP	RWD	WD3	SFC
12	12		R/WDP	FPT	WD4	SRC
13	13		R/WDP	LDP	WD5	RWC
14	14		R/WDP	RDY	WD6	OFFC
15	15		R/WDP	EOTL	WD7	LOLC

LOOP BACK WRITE DATA  
 READ DATA FROM  
 MBOX     STAT     R DATA     T STAT     WDATA     DIAG

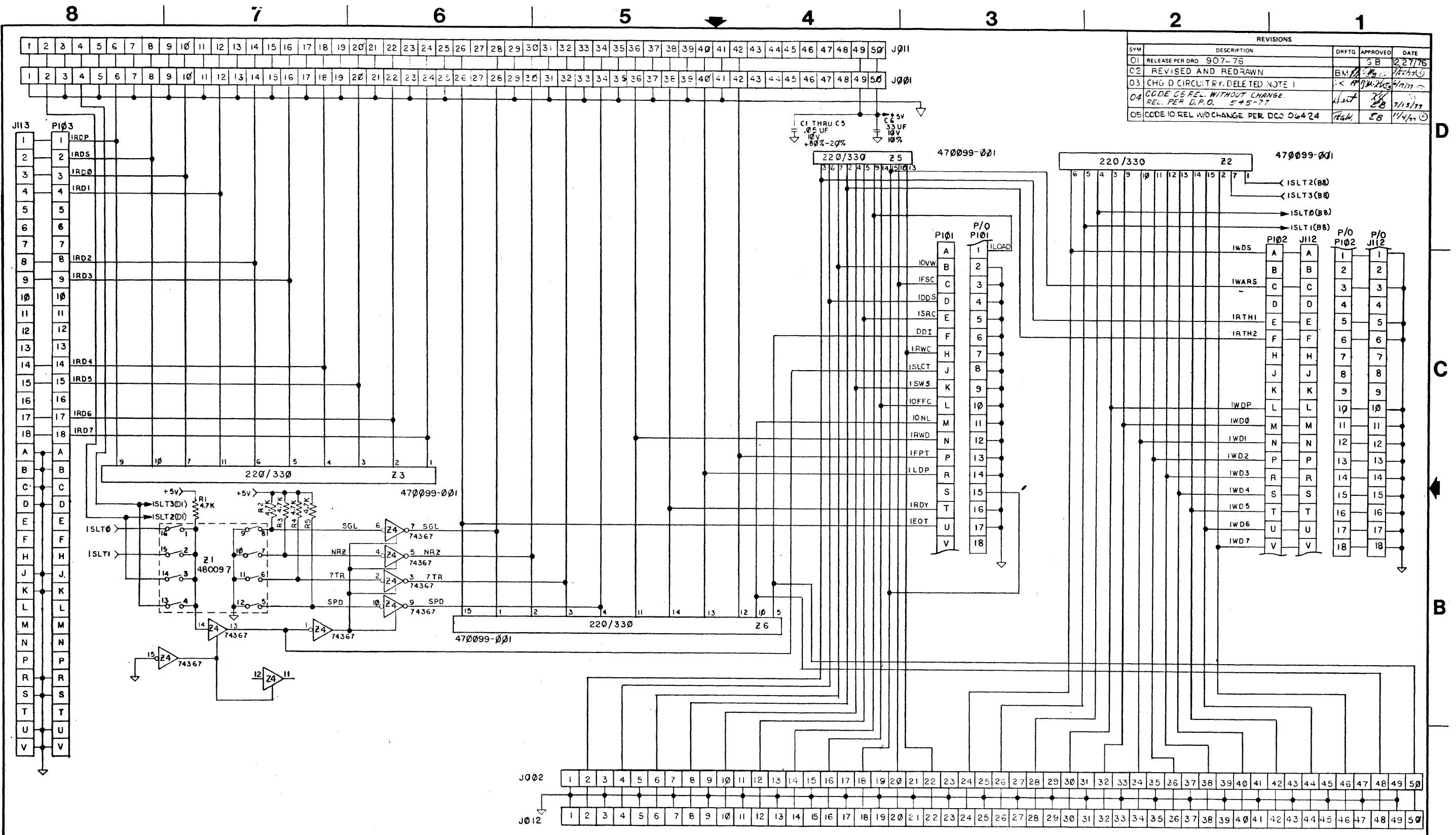
**BRANCH**

0	NO BRANCH
1	$\emptyset$ ATTEN     ATTENTION BIT
2	$\emptyset$ BOOT     BOOT STRAP BIT
3	$\emptyset$ DMOL     DMA OVERLAP
4	$\emptyset$ DMIP     DMA IN PROGRESS
5	$\emptyset$ NRZ     NRZI/PE TRANSPORT
6	$\emptyset$ ND     NEED DATA WRITE TO TAPE
7	$\emptyset$ TIME     TIME FLAG
8	$\emptyset$ SPD     18.75/37.5 IPS
9	$\emptyset$ RLATE     READ DATA TOO LATE
10	$\emptyset$ HID     HERE IS DATA (READ TAPE)
11	$\emptyset$ WLATE     WROTE DATA TOO LATE
12	$\emptyset$ TRK7     7/9 TRACK TRANSPORT
13	$\emptyset$ SGL     READ-WRITE/READ AFTER WRITE TRANSPORT
14	$\emptyset$ LDP     LOAD POINT
15	ILSB     LEAST SIGNIFICANT BIT OF DATA BUS

WRITE REGISTER BIT DEFINITIONS

W0,1	W2	W3	W4	W5	W6	W7	W8
$\emptyset$ = DMA REQ							
MB0	BUSY	ATTEN *			NEED DATA *		
1	INR	BOOT *					
2		DMOL *					
3		UDER *					
4							
5							
6							
7							
8							WD0
9							WD1
10							WD2
11			RTH1	LOOP			WD3
12			RTH2	SLT0			WD4
13			DDS	SLT1			WD5
14			OVW	SLT2			WD6
15			SWS	SLT3			WD7
MBOX	STAT	RST ATTEN	TCONT	SLCT	WDATA	TCOMD	WCOMD
W9	W10	W11	W12	W13			
HERE IS DATA *		TIME *	WLATE *				
			RLATE *				
			EOTL *		RGATE		(13)
					REN1		(14)
BIT 15		XPARITY			REN2		
RST HID	XAAR (0=EVEN)	RST TIME	RST FLG	PE COMD			

\* WRITING RESETS BIT(S)



REVISIONS				
SYM	DESCRIPTION	DRFTG	APPROVED	DATE
01	RELEASE PER DRO 907-76		S B	12/27/76
C2	REVISED AND REDRAWN		BM	1/13/77
03	CHG D CIRCUITRY, DELETED NOTE 1			4/1/77
04	CODE 05 REL. WITHOUT CHANGE. REL. PER D.P.O. 5-45-77			7/13/77
05	CODE 10 REL W/O CHANGE PER DCO 06424			11/4/77

NOTES: UNLESS OTHERWISE SPECIFIED

DRAWN	E.P.	12-8-76		<b>SCHEM, PCBA MAGNETIC TAPE INTERFACE</b>
CHECK	REL	5-23-77		
APPR	REL	12-20-76		
RELEASE	G.B.	12-27-76		
THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR TRANSFERRED TO OTHER DOCUMENTS OR DISCLOSED TO OTHERS OR USED FOR MANUFACTURING OR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN PERMISSION OF PERTEC BUSINESS SYSTEMS			CODE IDENT. NO. <b>D</b>	SIZE <b>121041</b>
APPLICATION 261070 1 X L 40 - NEXT ASSY QTY MODEL QTY			DC CODE <b>10</b>	REV <b>05</b>
SCALE DO NOT SCALE DWG			SHEET 1 OF 1	



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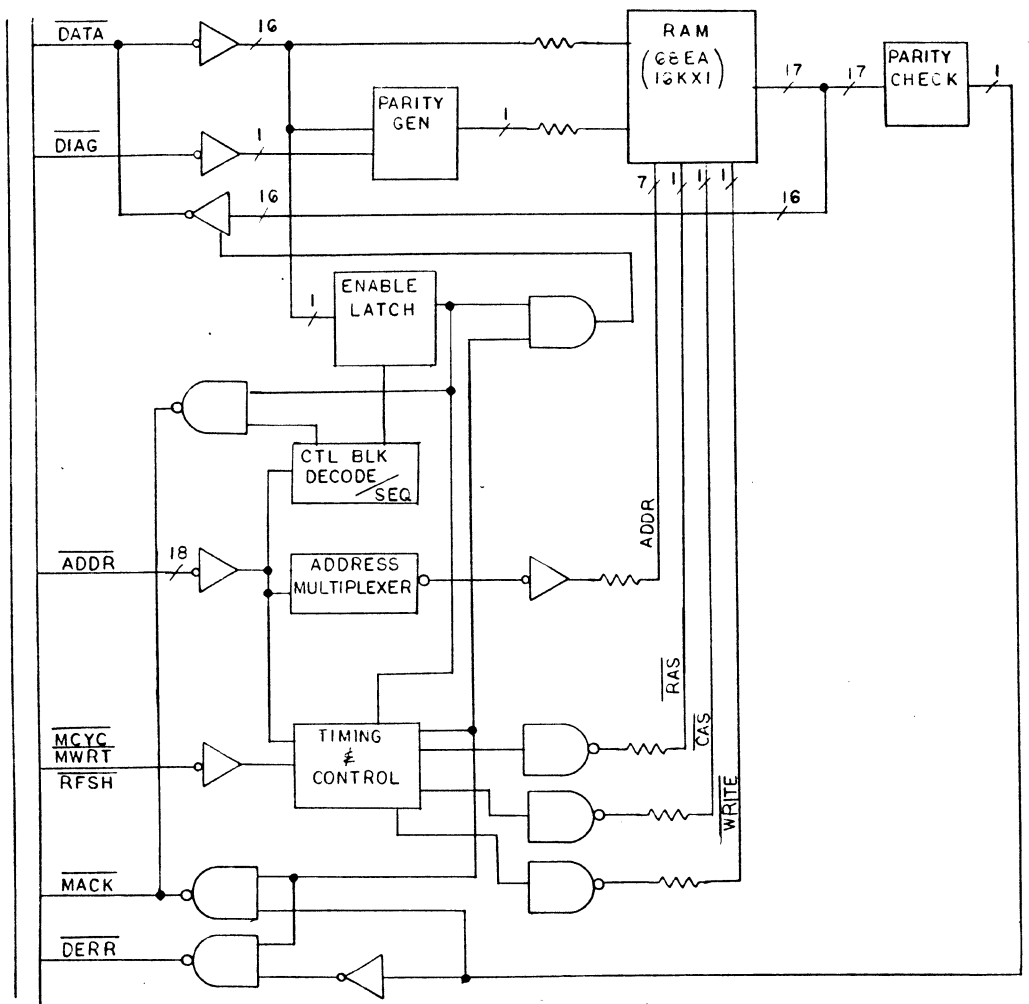
4

3

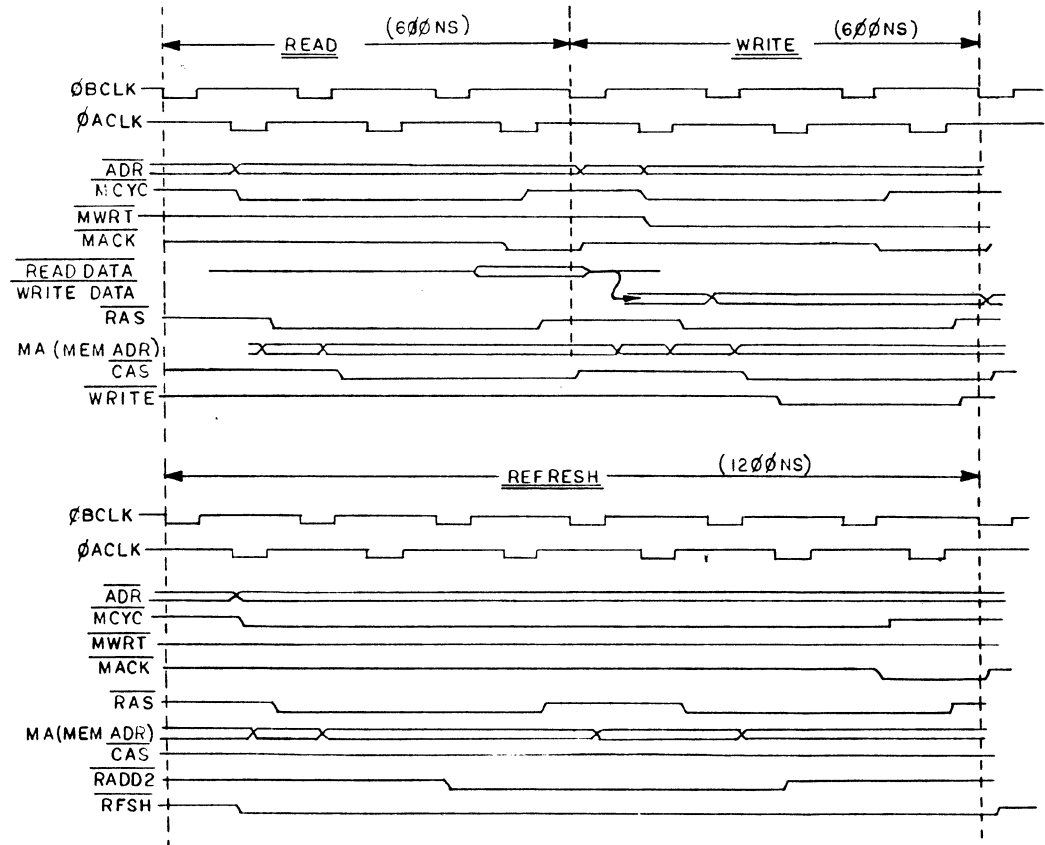
2

1

REVISIONS			
SYV	DESCRIPTION	DRFTG	APPROVED DATE
01	RELEASE PER DDO 403-77	EB	5-18-77
02	REVISED CIRCUITRY PER ENGR INPUT	NK	EB 5-27-77
03	REVISED & REDRAWN	RN	EB 5-28-77
04	CODE 06 REL W/CHANGES PER DCO 06672	EN	EB 12/23/77
05	INCORP DCO 07045	EN	EB 1/14/78
06	CODE 10 REL W/O CHANGES PER DCO 08422	EN	EB 1/15/78
07	INCORP DCO 08422	EN	EB 1/16/78
08	INCORP DCO 08940	EN	EB 7/17/78



128K BYTE  
MEMORY BLOCK DIAGRAM



③ THESE COMPONENTS NOT USED.  
 ② USED ON PCBA 261098 REVISIONS 05 AND EARLIER ONLY.  
 1. ALL RESISTORS ARE IN OHMS, 1/4W, 10%  
 NOTE: UNLESS OTHERWISE SPECIFIED

SHEET	REV	1	2	3	4	5	6	7	8
REV STATUS OF SHEETS	REV	08	06	06	07	08	08	08	08

ITEM NO.	QTY	RECD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION
MATERIAL LIST				
UNLESS OTHERWISE SPECIFIED		DRAWN	P. TRICK	5-16-77
1 TOLERANCES		CHECK	J. EVERS	5-16-77
** .030 ANGULAR		APPR	T. STEPHENSON	5-16-77
*** .010		RELEASE	BRINK	5-12-77
2 REMOVE ALL BURRS		THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR TRANSMITTED TO OTHER DOCUMENTS OR DISCLOSED TO OTHERS OR USED FOR MANUFACTURING OR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN PERMISSION OF PERTEC BUSINESS SYSTEMS		
3 BREAK ALL SHARP EDGES		TITLE		
4 BOND SURFACES 125° OR BETTER		SCHEMATIC, PCBA		
5 INTERPRET DWG PER MIL-D-1000		128K BYTE MEMORY		
6 DIM ARE IN INCHES		CODE IDENT NO	SIZE	DWG NO
		DC CODE	D	121082
		SCALE	DO NOT SCALE DWG	REV
				08

D  
C  
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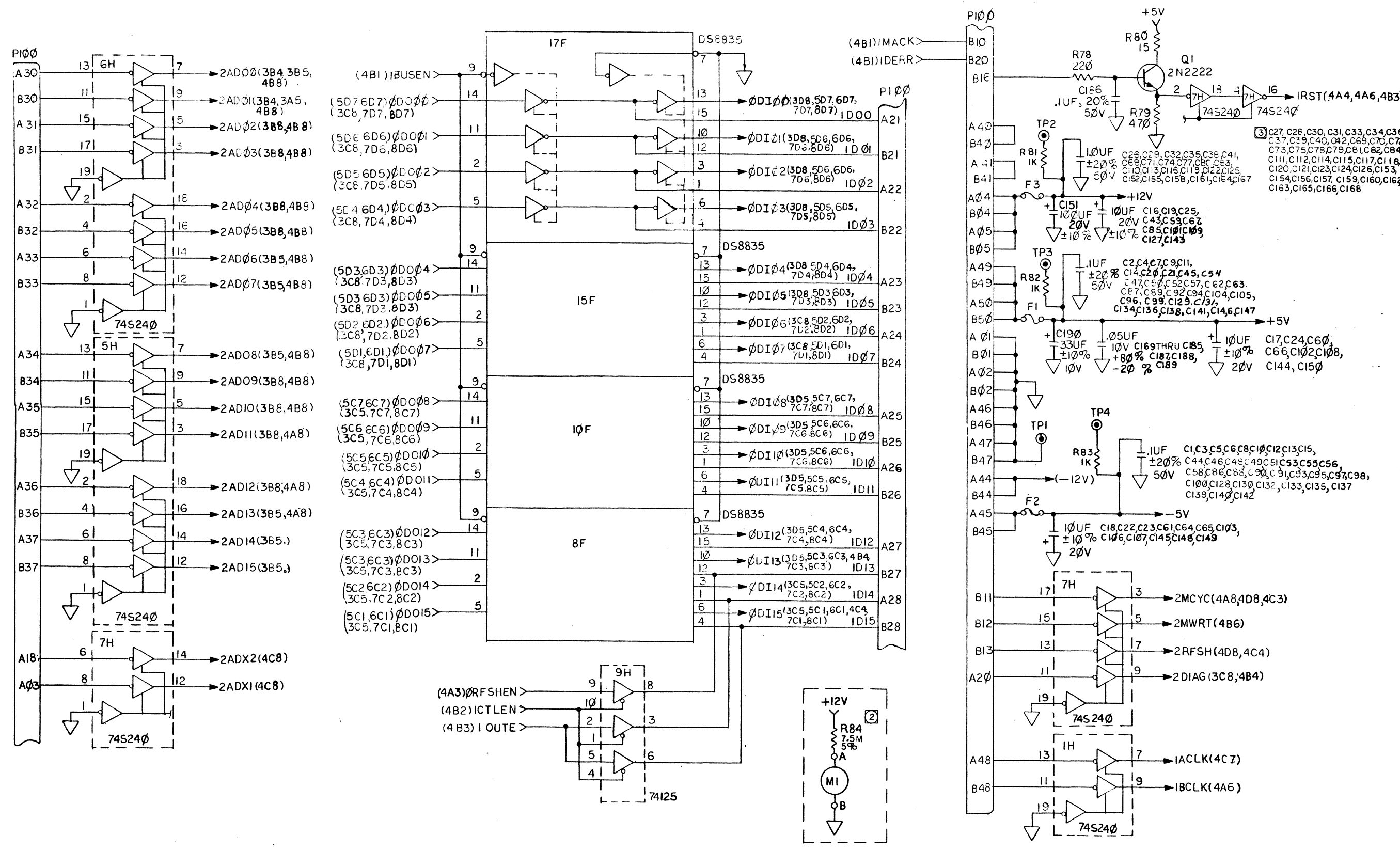
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SIZE	DWG NO	REV
D	121082	06
DO NOT SCALE DWG		SHEET 2

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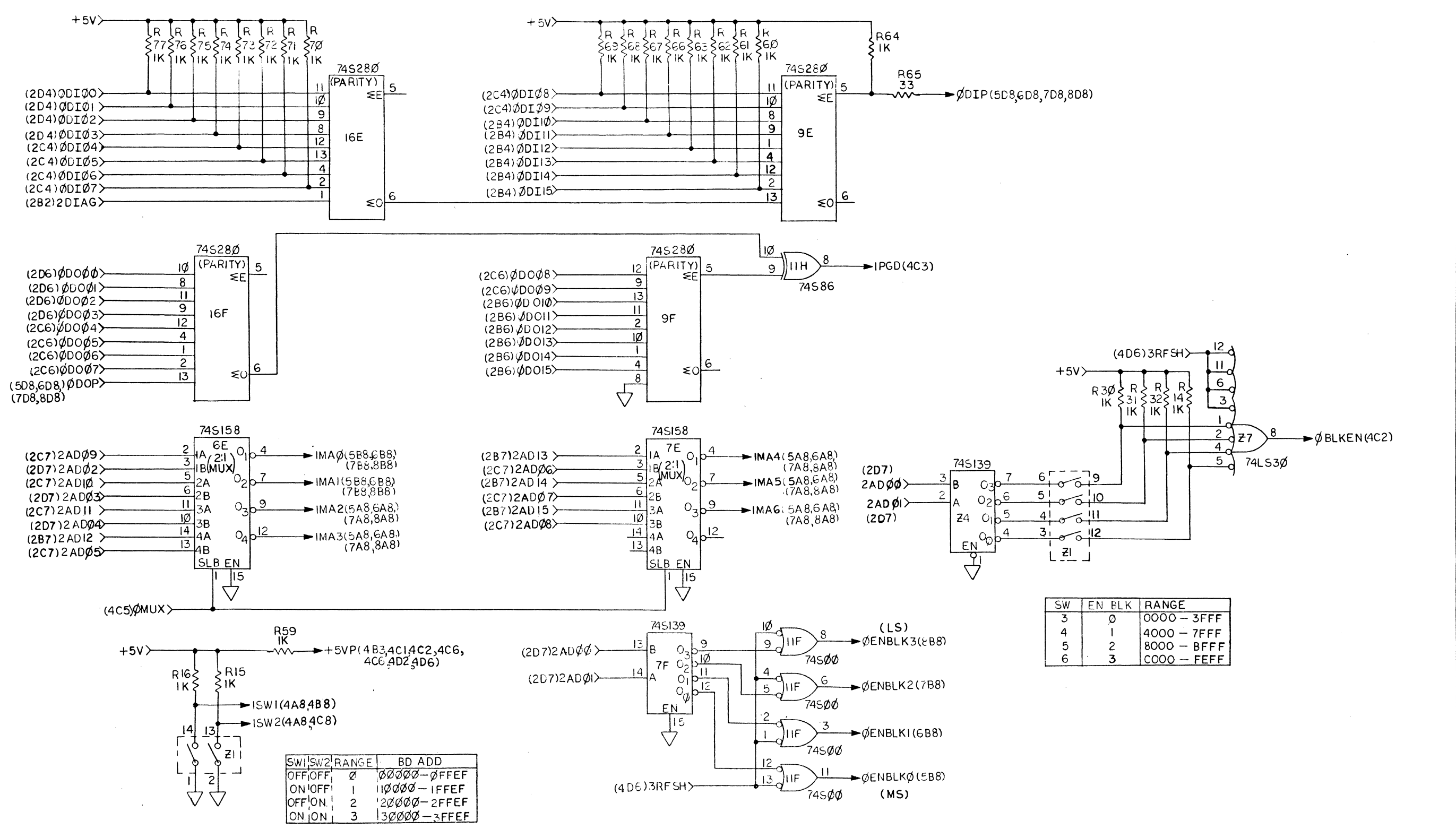
1

D

C

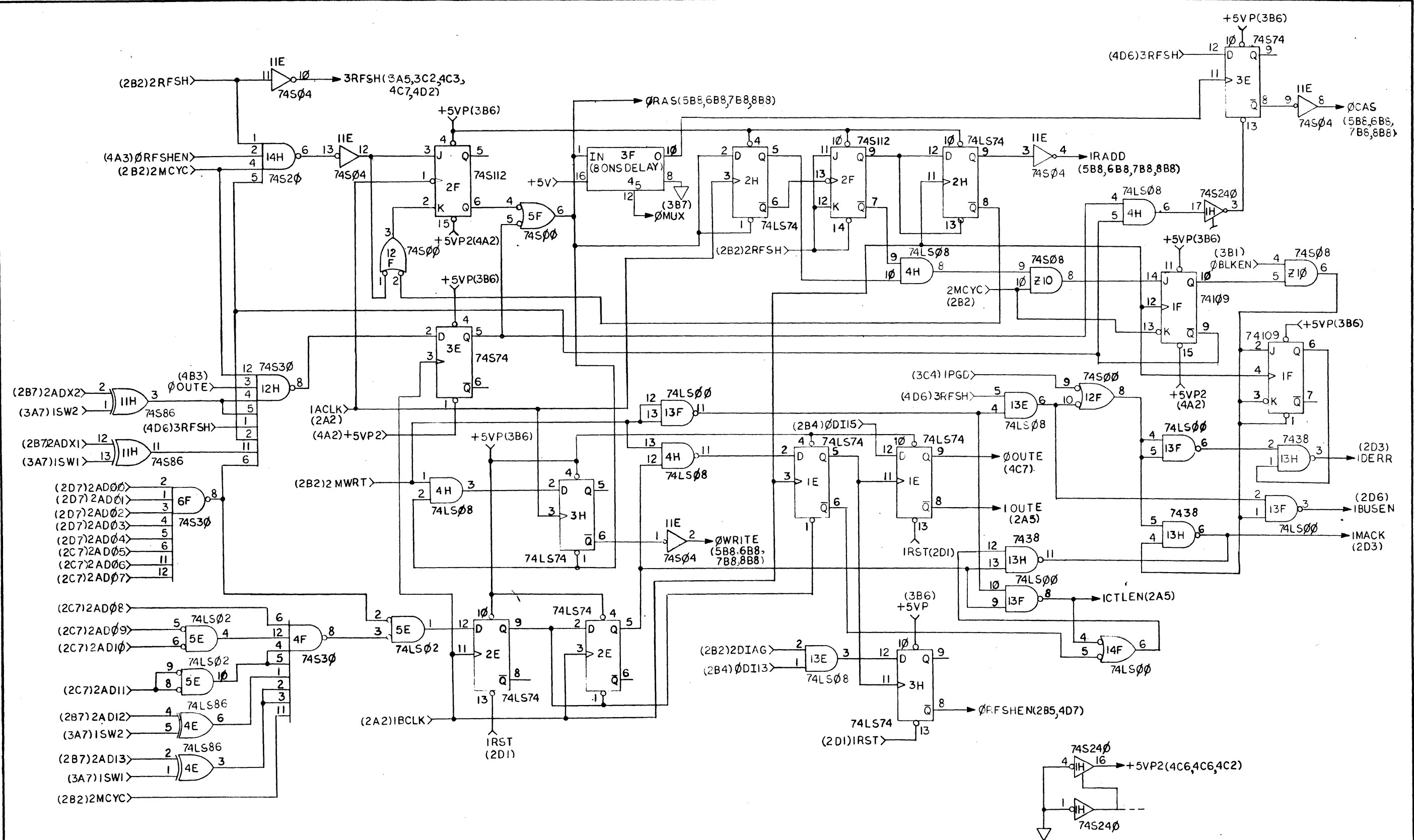
B

A

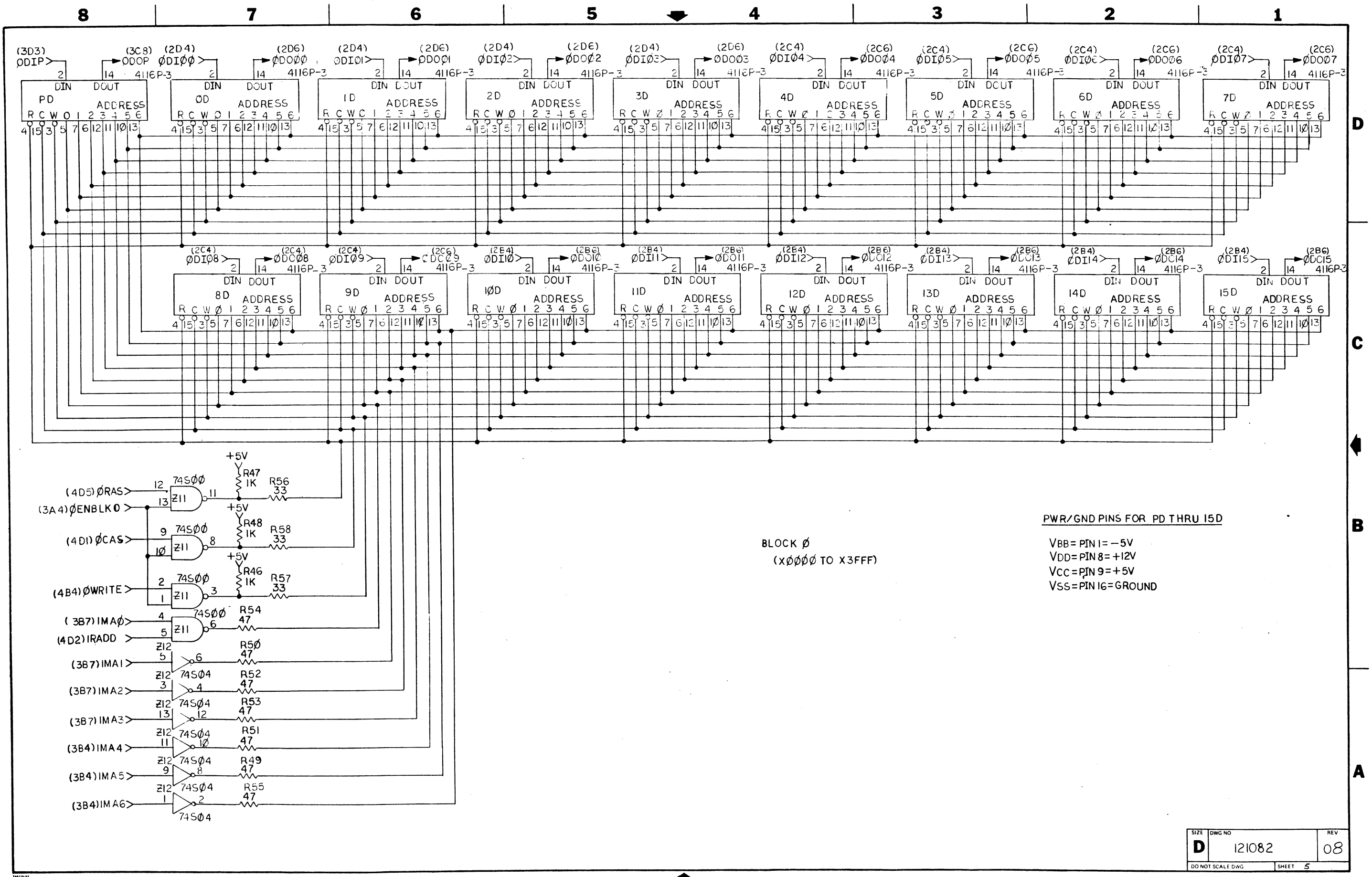


SW	EN	BLK	RANGE
3	0	0	0000 - 3FFF
4	1	0	4000 - 7FFF
5	2	0	8000 - BFFF
6	3	0	C000 - FFFF

SW1	SW2	RANGE	BD ADD
OFF	OFF	0	0000 - 0FFF
ON	OFF	1	1000 - 1FFF
OFF	ON	2	2000 - 2FFF
ON	ON	3	3000 - 3FFF



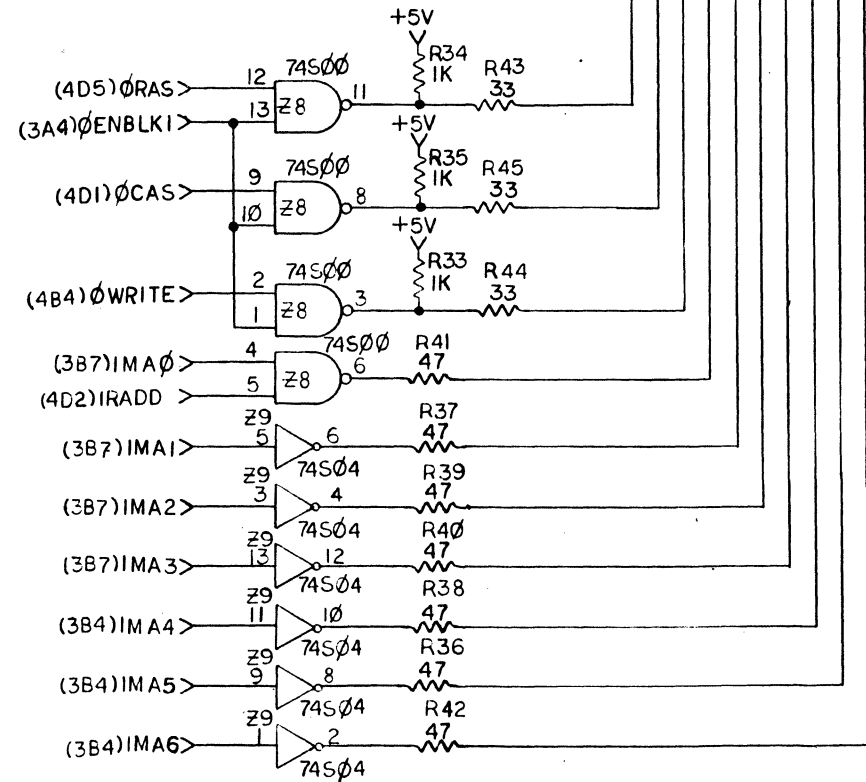
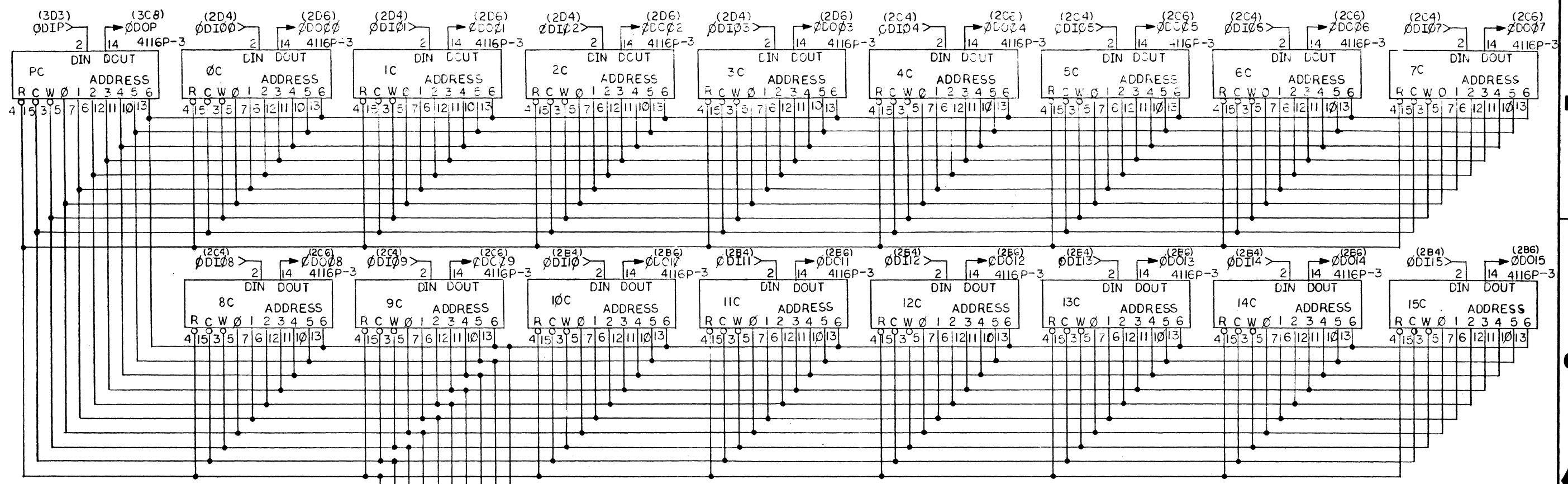
SIZE	DWG NO	REV
D	121082	07
DO NOT SCALE DWG		SHEET 4



**PWR/GND PINS FOR PD THRU 15D**  
 VBB=PIN 1=-5V  
 VDD=PIN 8=+12V  
 VCC=PIN 9=+5V  
 VSS=PIN 16=GROUND

**BLOCK 0**  
 (X0000 TO X3FFF)

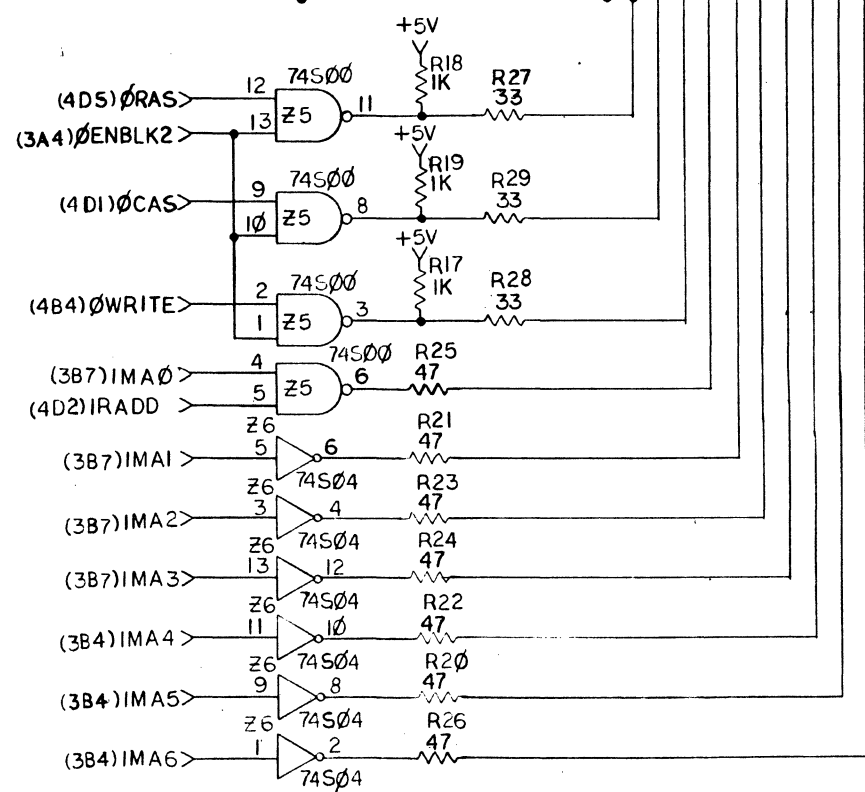
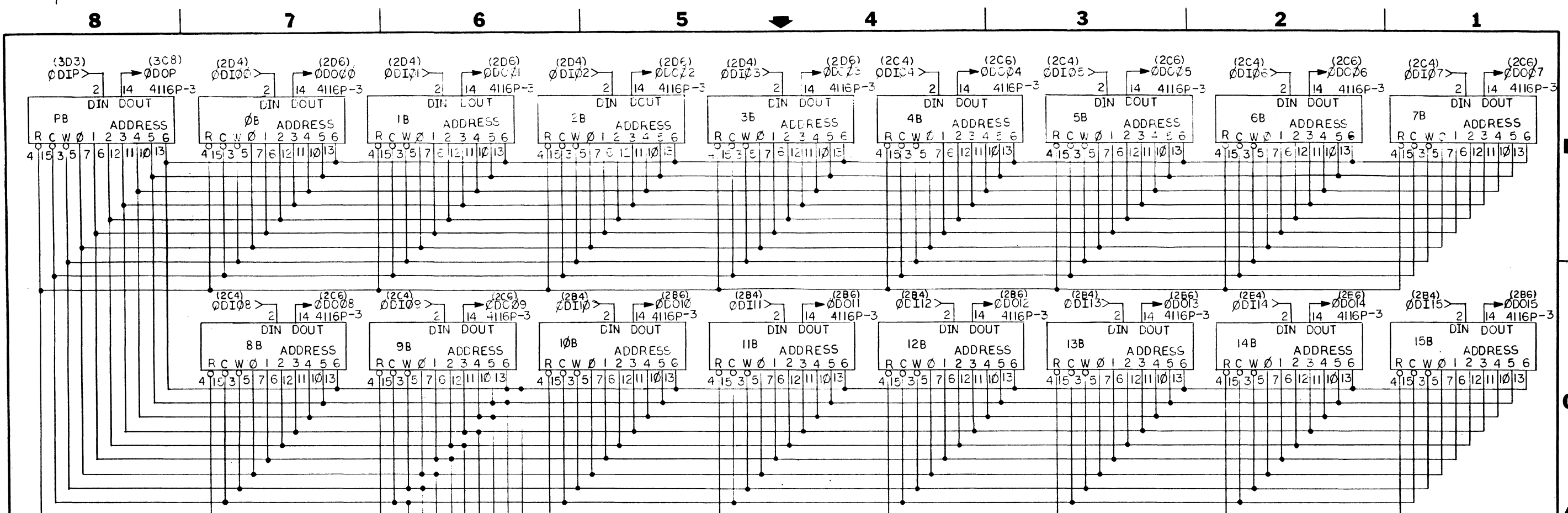
8 7 6 5 4 3 2 1



BLOCK I  
(X4000 TO X7FFF)

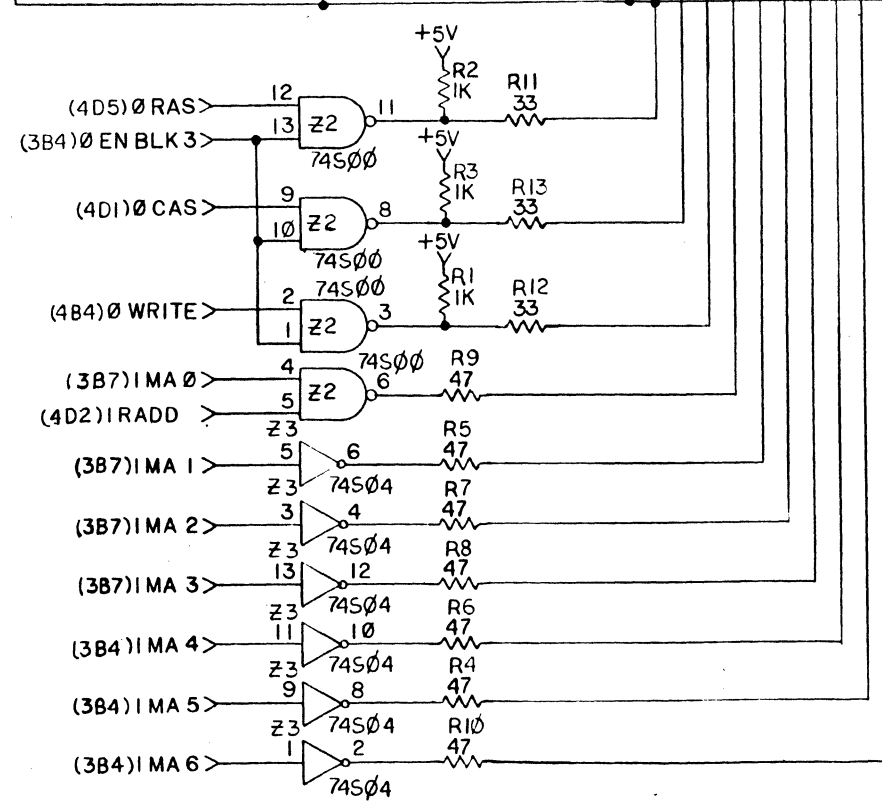
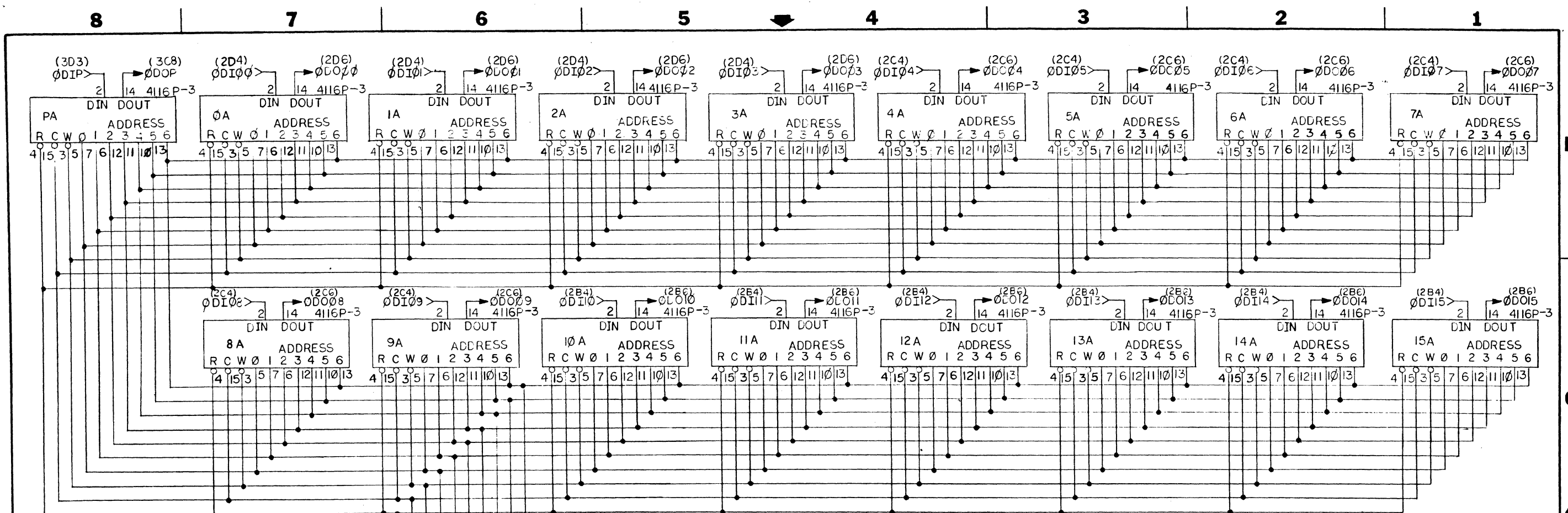
PWR/GND PINS FOR PC THRU 15C  
 VBB=PIN 1=-5V  
 VDD=PIN 8=+12V  
 VCC=PIN 9=+5V  
 VSS=PIN 16=GROUND

SIZE	DWG NO	REV
D	121082	08
DO NOT SCALE DWG		SHEET 6



BLOCK 2  
(X8000 TO XBFFF)

PWR/GND PINS FOR PB THRU 15B  
 VBB=PIN1=-5V  
 VDD=PIN8=+12V  
 VCC=PIN9=+5V  
 VSS=PIN16=GROUND



BLOCK 3  
(XC000 TO XFEFF)

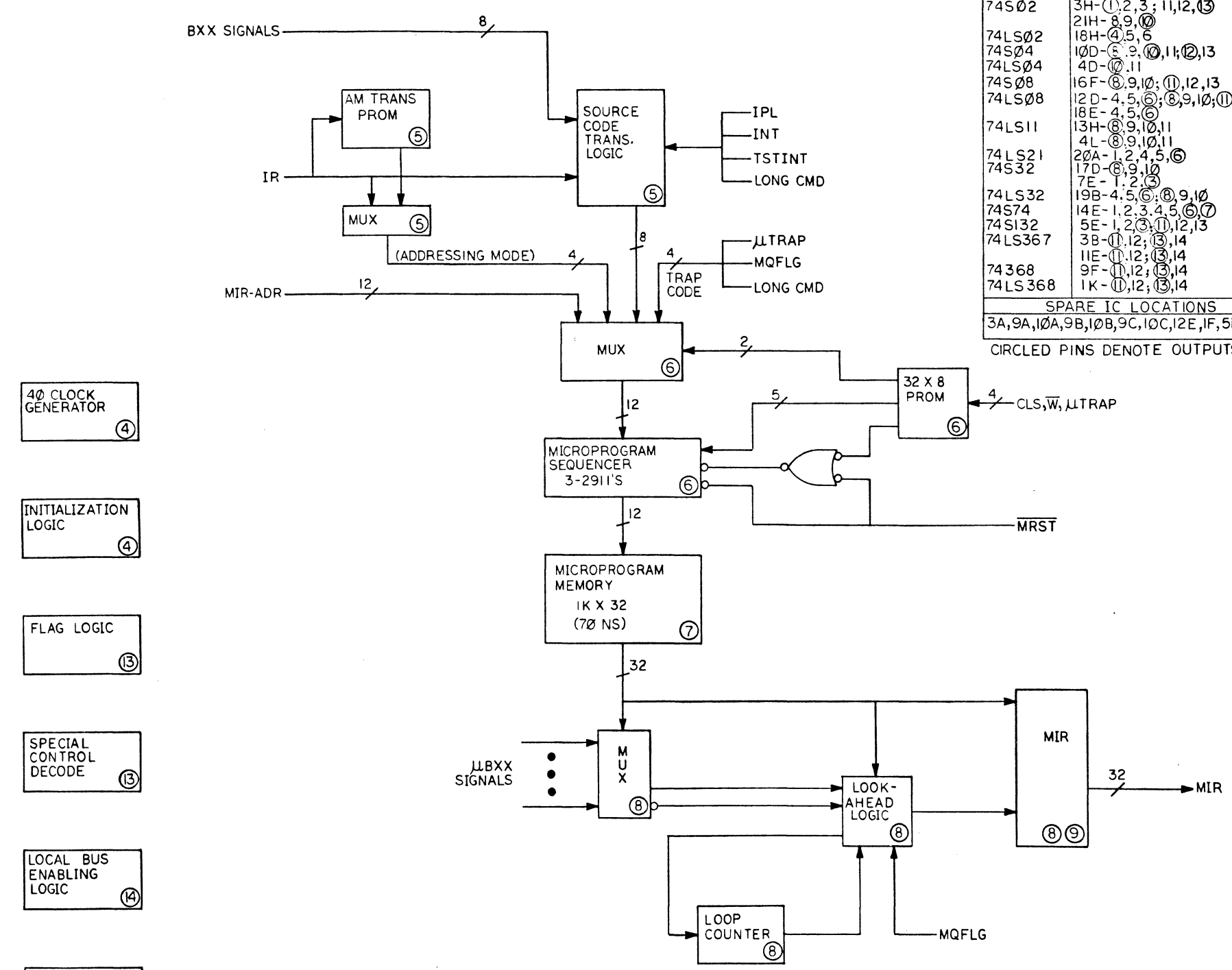
PWR/GND PINS FOR PA THRU 15A

VBB=PIN1=-5V  
VDD=PIN8=+12V  
VCC=PIN9=+5V  
VSS=PIN16=GROUND

SPARE IC GATES (OUTPUT CIRCLED)		
74S00	5F	1,2,3,10,9,8,13,12,11
	12F	4,5,6,13,12,11
74LS02	5E	11,12,13
74S24	11E	5,6
74LS08	13E	13,12,11,10,9,8
74S08	21D	1,2,3,13,12,11
74LS00	14F	1,2,3,10,9,8,13,12,11
74S20	14H	13,12,10,9,8
7438	13H	10,9,8
74S158	7E	14,13,12
74LS86	+E	13,12,11,10,9,8
74S86	11H	4,5,6
74125	9H	13,12,11
74S139	24	15,14,13,12,11,10,9
	7F	1,2,3,4,5,6,7
74S240	1F	6,7,8,12,15,14,13,12,11
SWITCH	Z1	7,8



MICROINSTRUCTION CONTROL



- 40 CLOCK GENERATOR (4)
- INITIALIZATION LOGIC (4)
- FLAG LOGIC (3)
- SPECIAL CONTROL DECODE (3)
- LOCAL BUS ENABLING LOGIC (14)
- SYSTEM CLOCKS AND MEMORY TIMING (15)

SPARE IC BLOCK	
IC TYPE	SPARE GATES
74S00	4E-8,9,10
74S02	3H-1,2,3; 11,12,13
	21H-8,9,10
74LS02	18H-4,5,6
74S04	10D-8,9,10,11,12,13
74LS04	4D-10,11
74S08	16F-8,9,10; 11,12,13
74LS08	12D-4,5,6; 8,9,10; 11,12,13
	18E-4,5,6
74LS11	13H-8,9,10,11
	4L-8,9,10,11
74LS21	20A-1,2,4,5,6
74S32	17D-8,9,10
	7E-1,2,3
74LS32	19B-4,5,6; 8,9,10
74S74	14E-1,2,3,4,5,6,7
74S132	5E-1,2,3,11,12,13
74LS367	3B-1,12,13,14
	11E-1,12,13,14
74368	9F-1,12,13,14
74LS368	1K-1,12,13,14

SPARE IC LOCATIONS  
3A,9A,10A,9B,10B,9C,10C,12E,1F,5D,5F

CIRCLED PINS DENOTE OUTPUTS

REVISIONS				
SYM	DESCRIPTION	DRFTG	APPROVED	DATE
07	REVISED AND REDRAWN	1/18/77	EB	6/27/77 (1)
08	REVISED TERMINAL INPUT	1/18/77	EB	6/27/77 (2)
09	CODE DE RELEASE N/O CHANGES PER DRO 115-78	2/27/77	EB	6/27/77 (3)
10	INCORP DCO 08358	3/22/77	EB	12/1/77 (4)
11	CODE DE REL N/O CHANGES PER DCO 08422	8/11/77	EB	12/1/77 (5)
12	INCORP DCO 09888	1/14/80	MP	1/14/80 (6)
13	INCORP DCO 10566	6/11/80	EB	3/13/80 (7)

NOTE: UNLESS OTHERWISE SPECIFIED  
1. ALL RESISTORS ARE IN OHMS ±10%, 1/4 W.

SHEET	12	13	14	15	16	17	18	19	20	21	22		
REV	11	11	11	11	11	11	11	11	11	11	13		
REV STATUS OF SHEETS													
	REV	1	2	3	4	5	6	7	8	9	10	11	12
	REV	13	11	11	13	11	11	11	11	11	11	11	11
DRAWN	ATNELL	8-19-77	BUSINESS SYSTEMS										
CHECK	DELUCKY	8-19-77	TITLE SCHEM, PCBA XPU2										
APPR	TSEB	8-19-77	CODE IDENT NO	SIZE	DWG NO	REV							
RELEASE	BRINK	8-19-77	DCCODE	D	121102	13							
APPLICATION			SCALE	DO NOT SCALE DWG	SHEET	1	OF	22					

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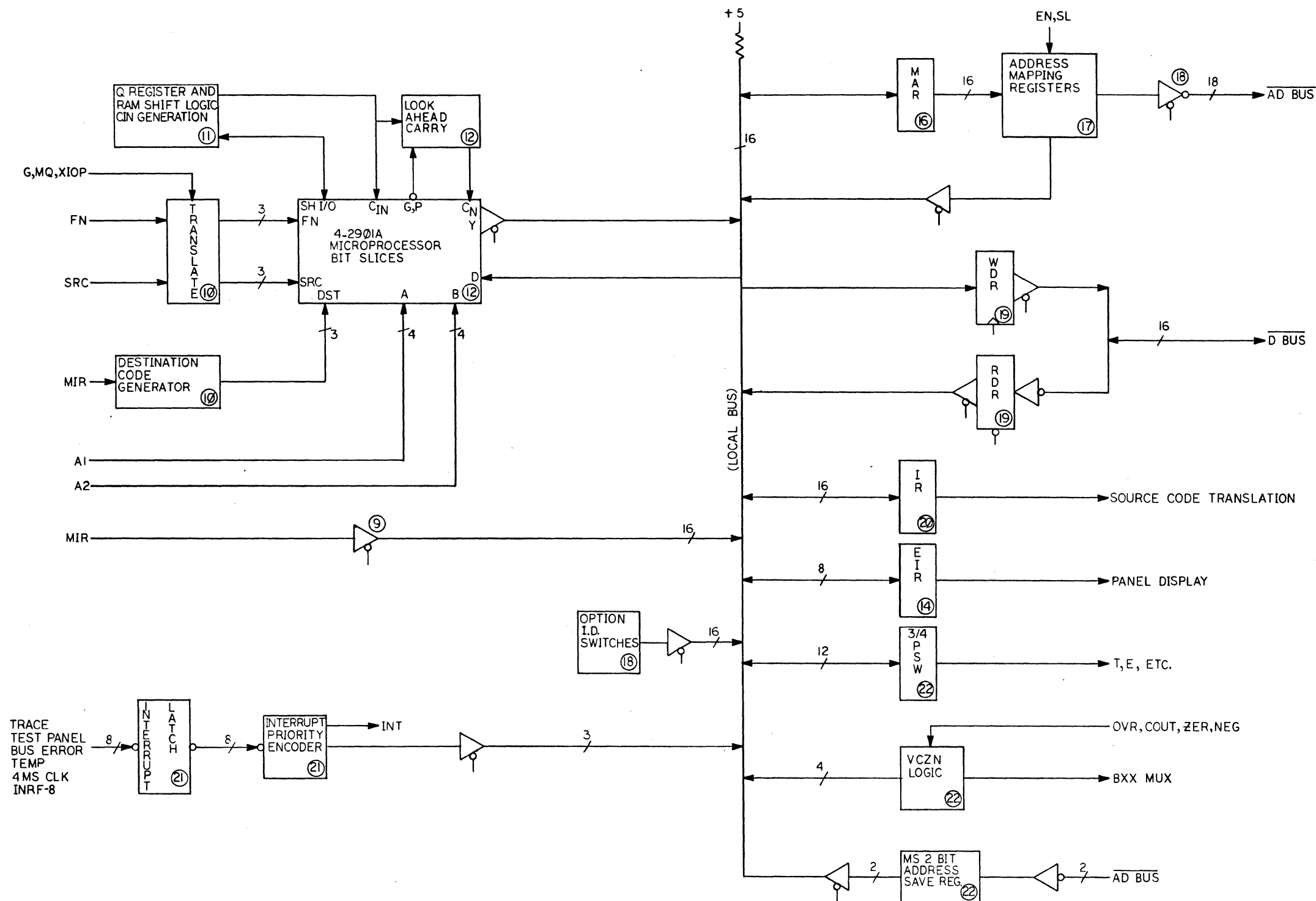
4

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1

### XPU2 DATA PATHS



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SIZE	DWG NO	REV
D	121102	11
DO NOT SCALE DWG		SHEET 2

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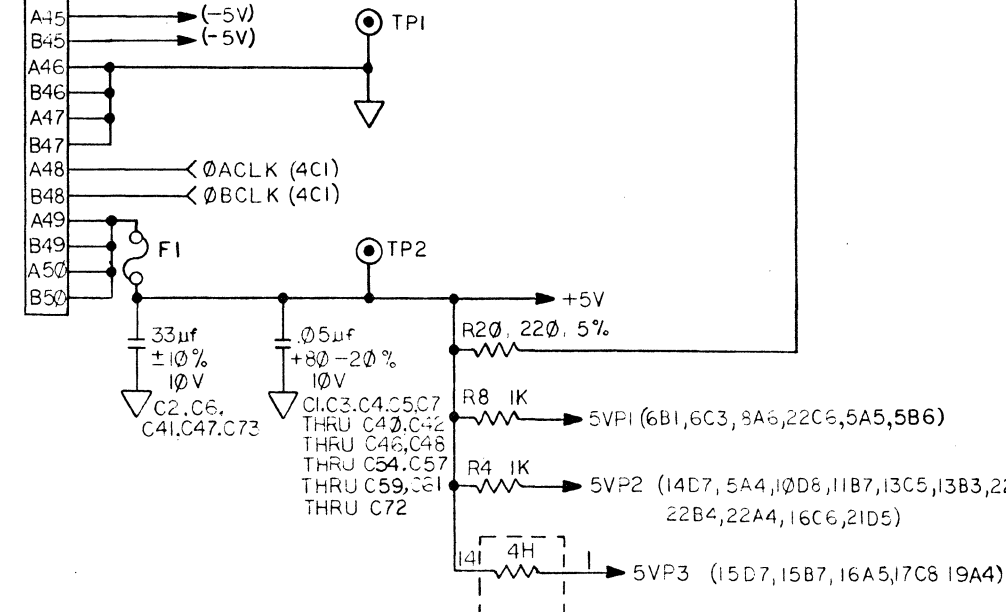
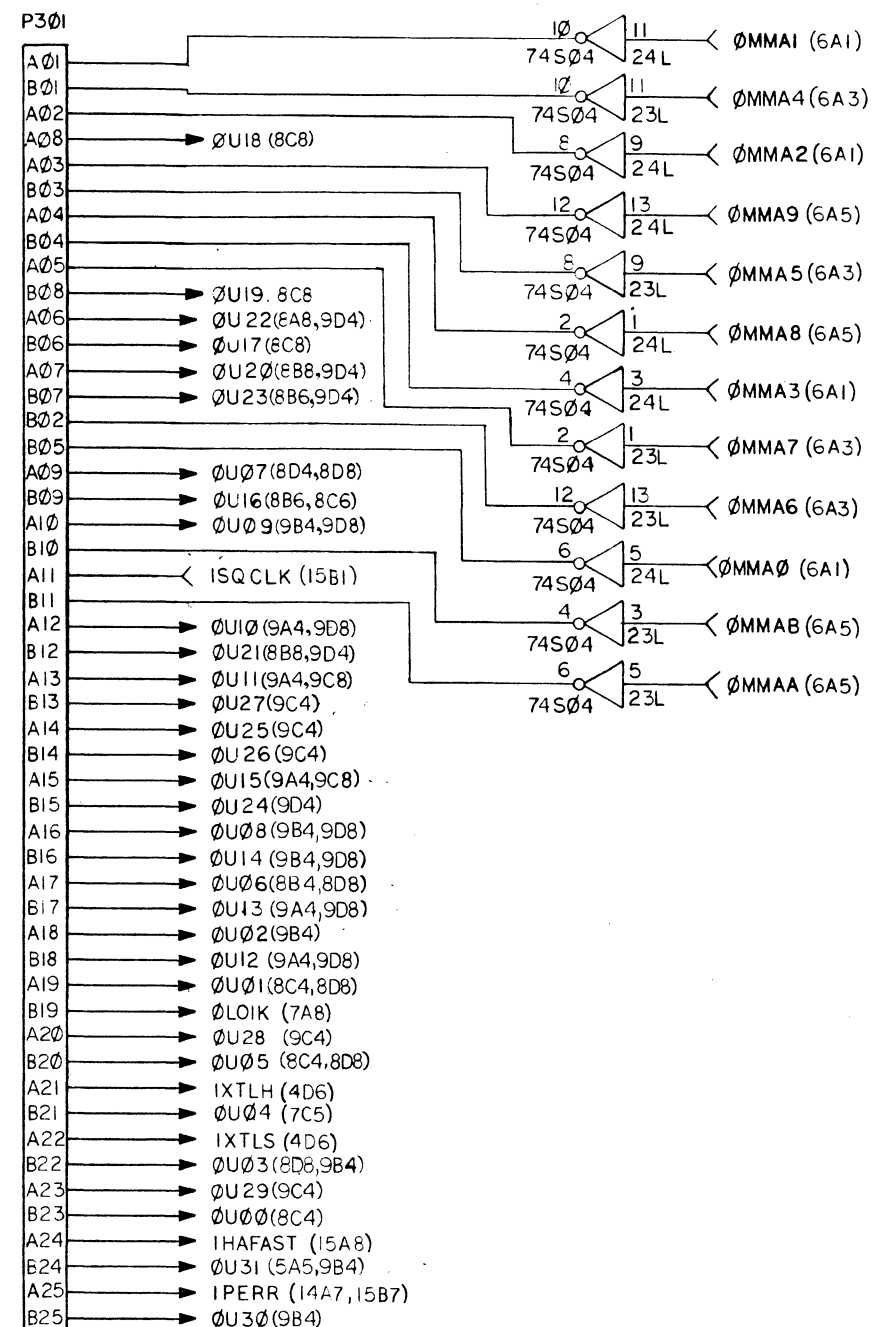
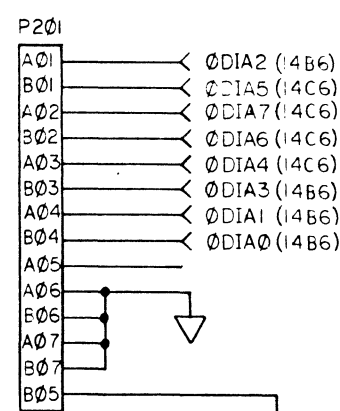
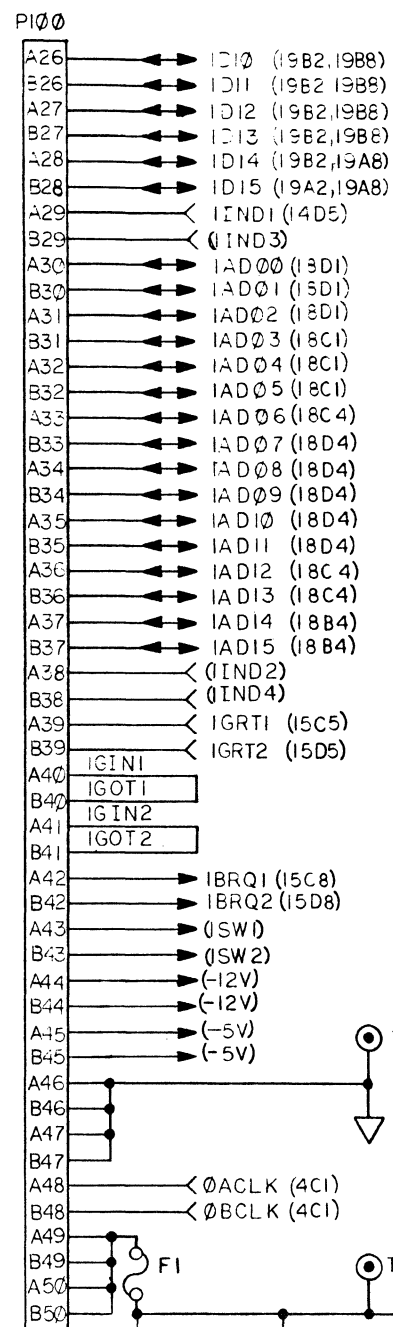
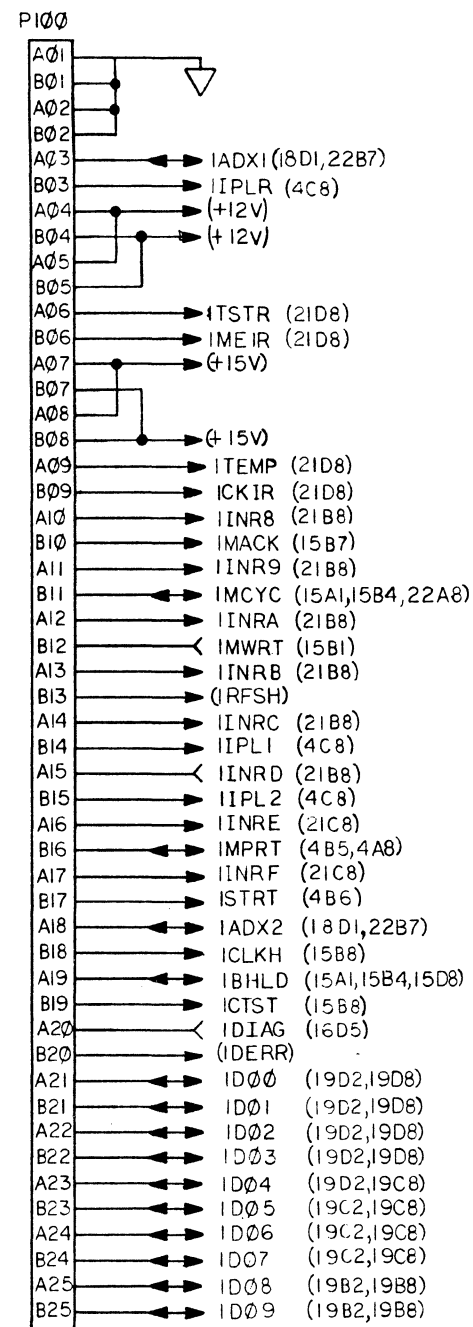
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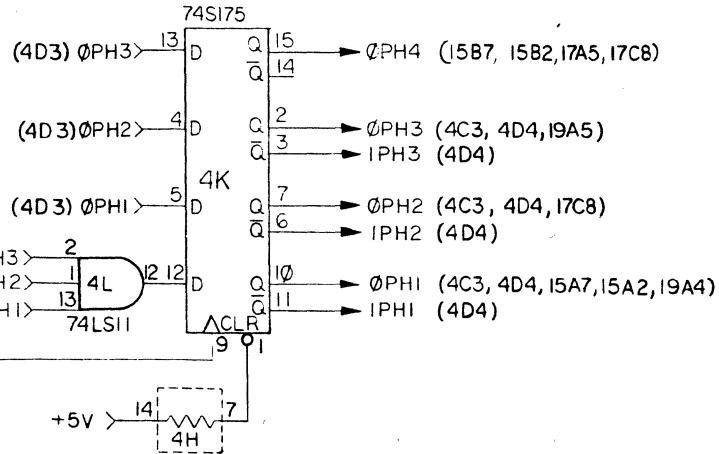
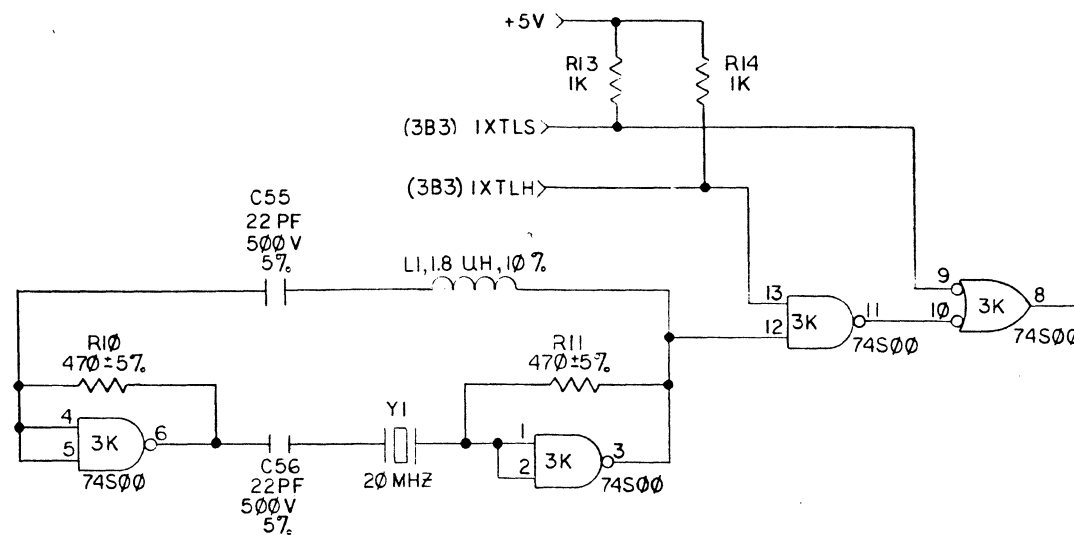
3

2

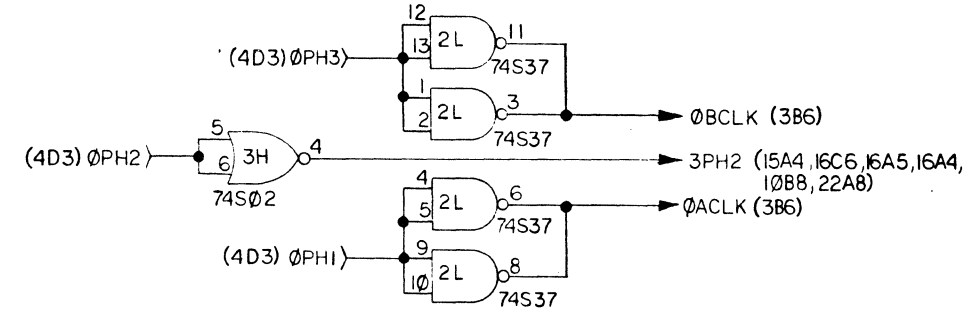
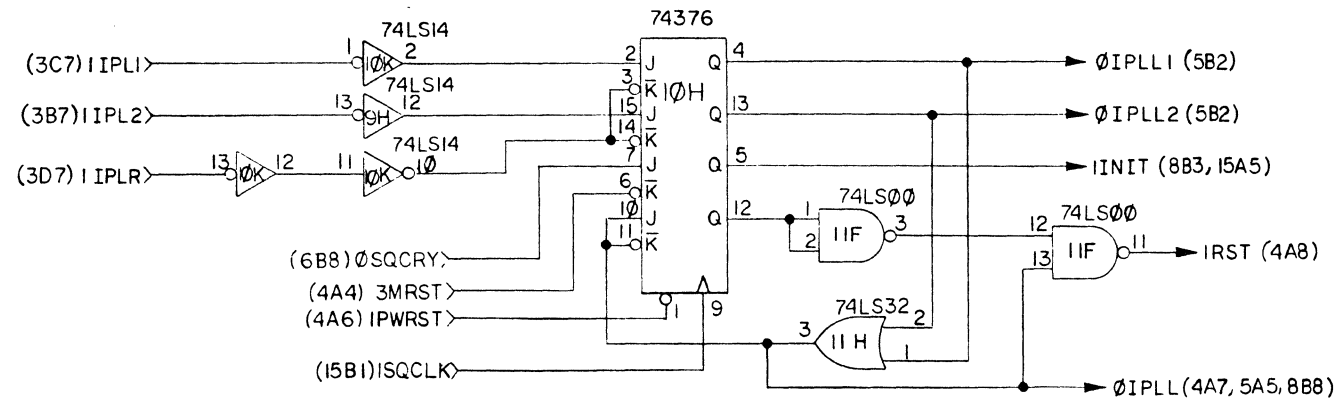
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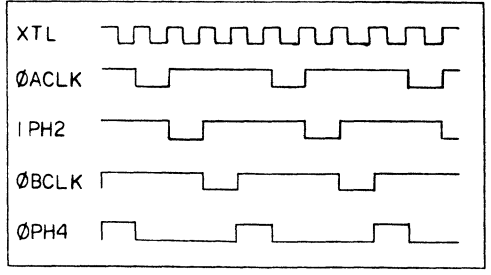
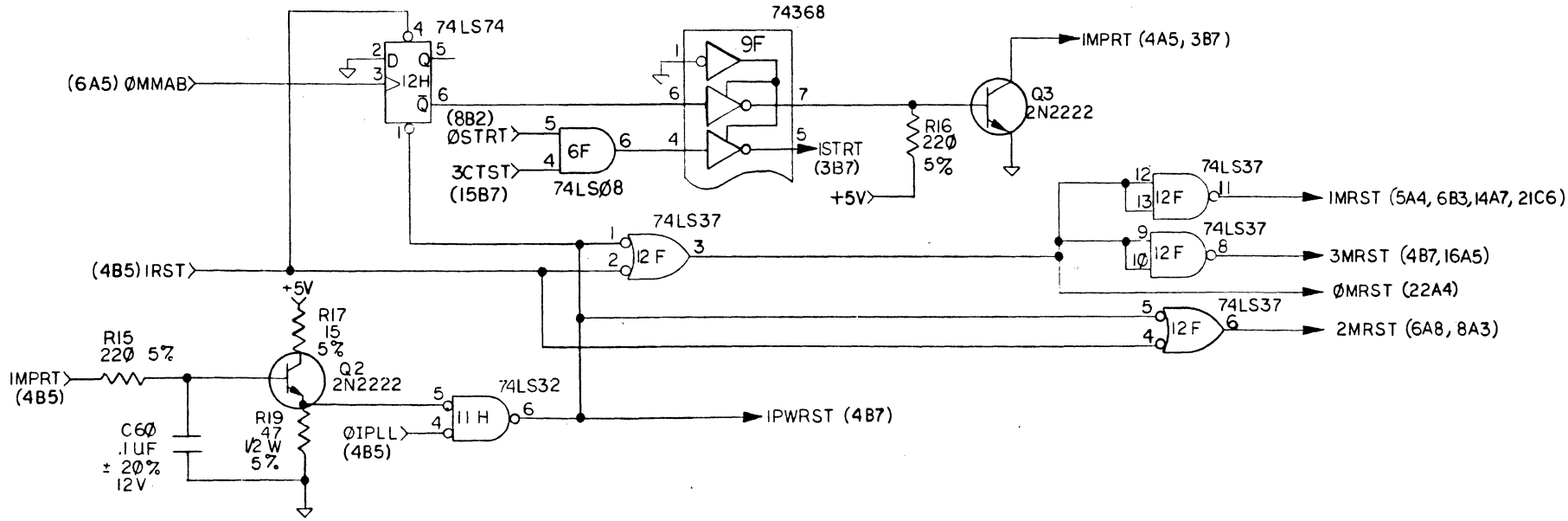
40 CLOCK GENERATION



INITIALIZATION LOGIC



IPL LATCH



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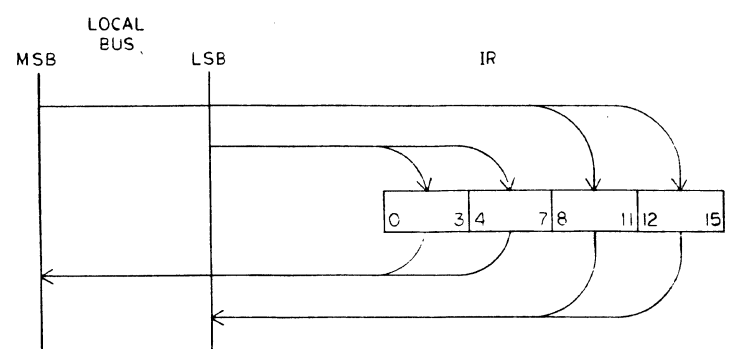
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4

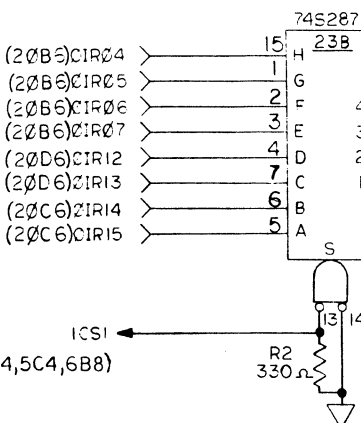
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2

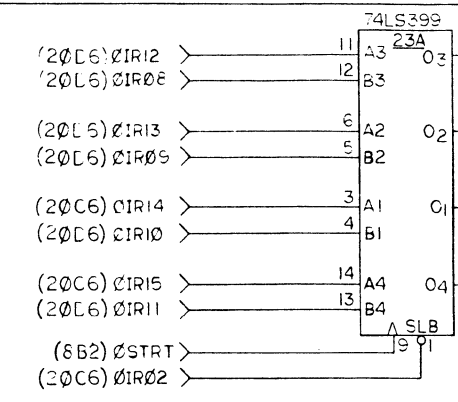
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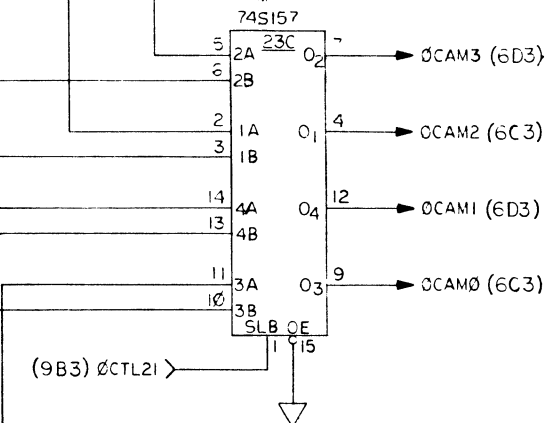
SOURCE CODE TRANSLATION LOGIC



CTLI AM XLAT



74LS399

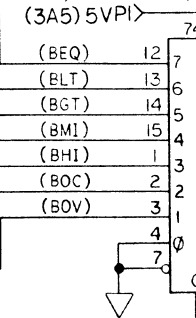
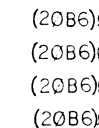
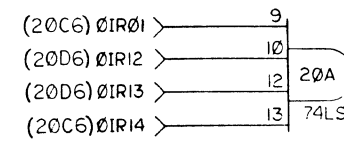


D

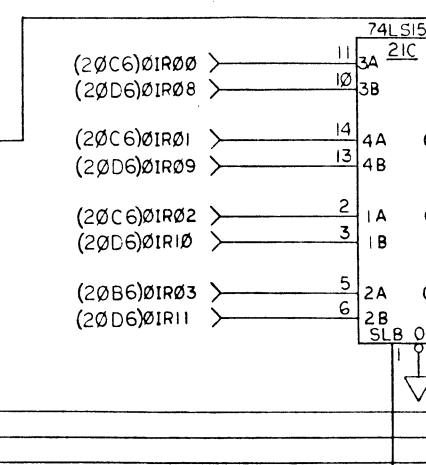
C

B

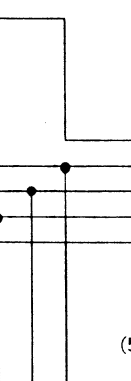
A



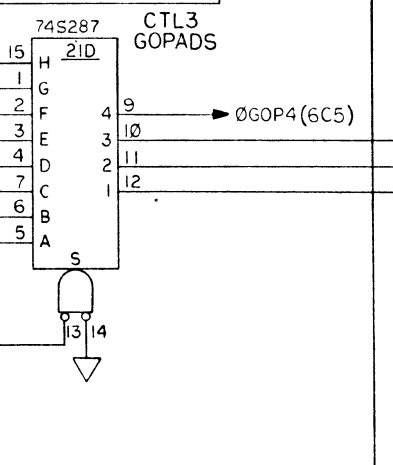
74LS151



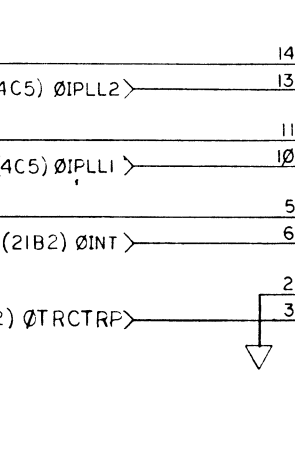
74LS157



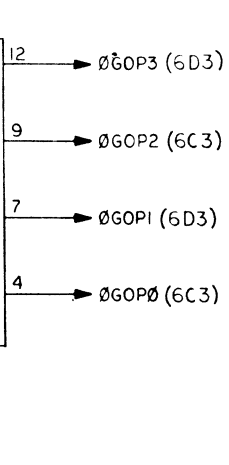
74S287



74S288

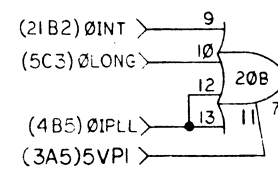


74S287

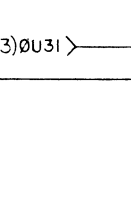


74LS157

(22D3) 0Z  
(22D3) 0N  
(22D3) 0CRY  
(22D3) 0V



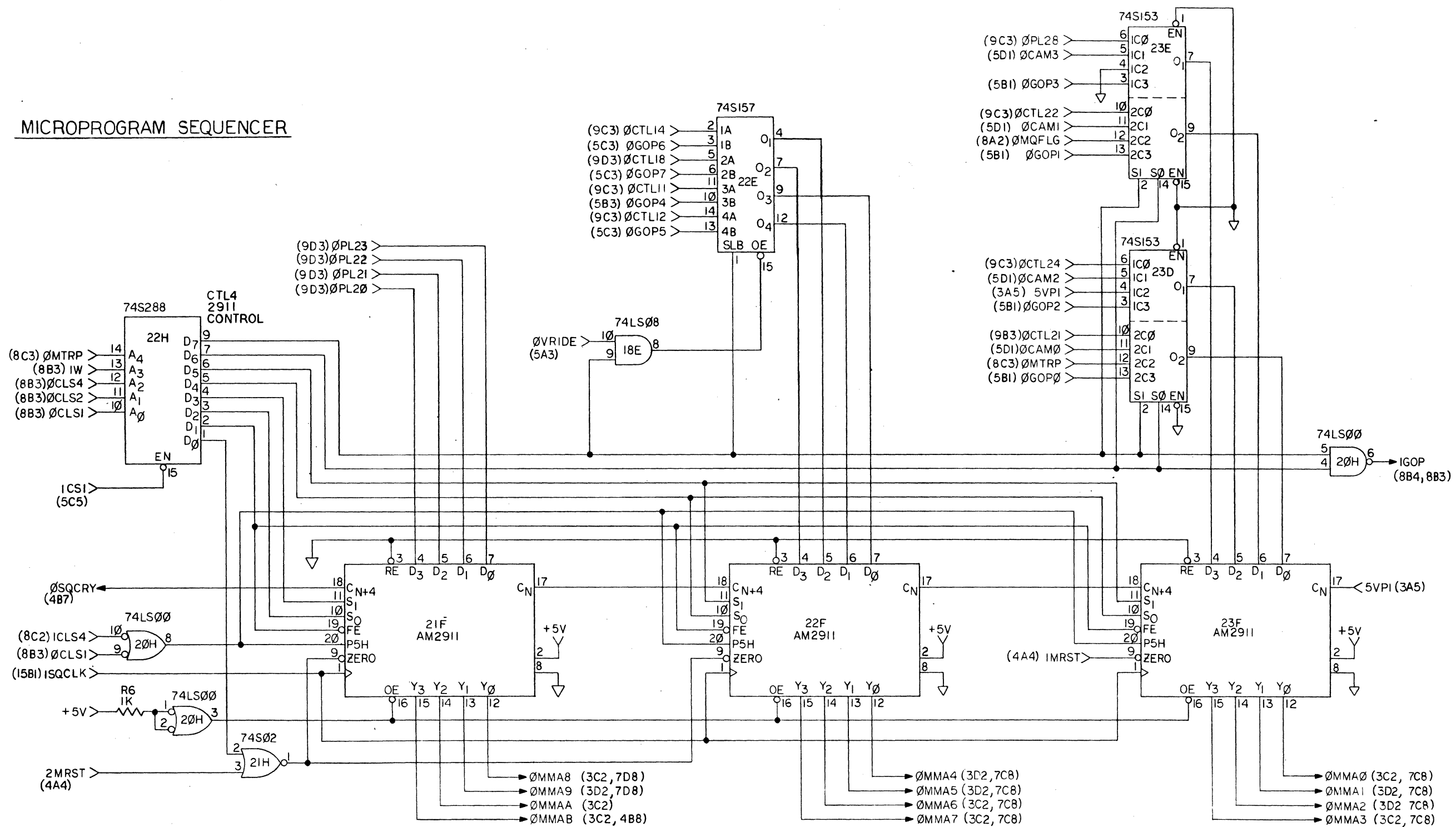
74LS25



74LS74

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	D	121102	11
DO NOT SCALE DWG		SHEET 5	

# MICROPROGRAM SEQUENCER



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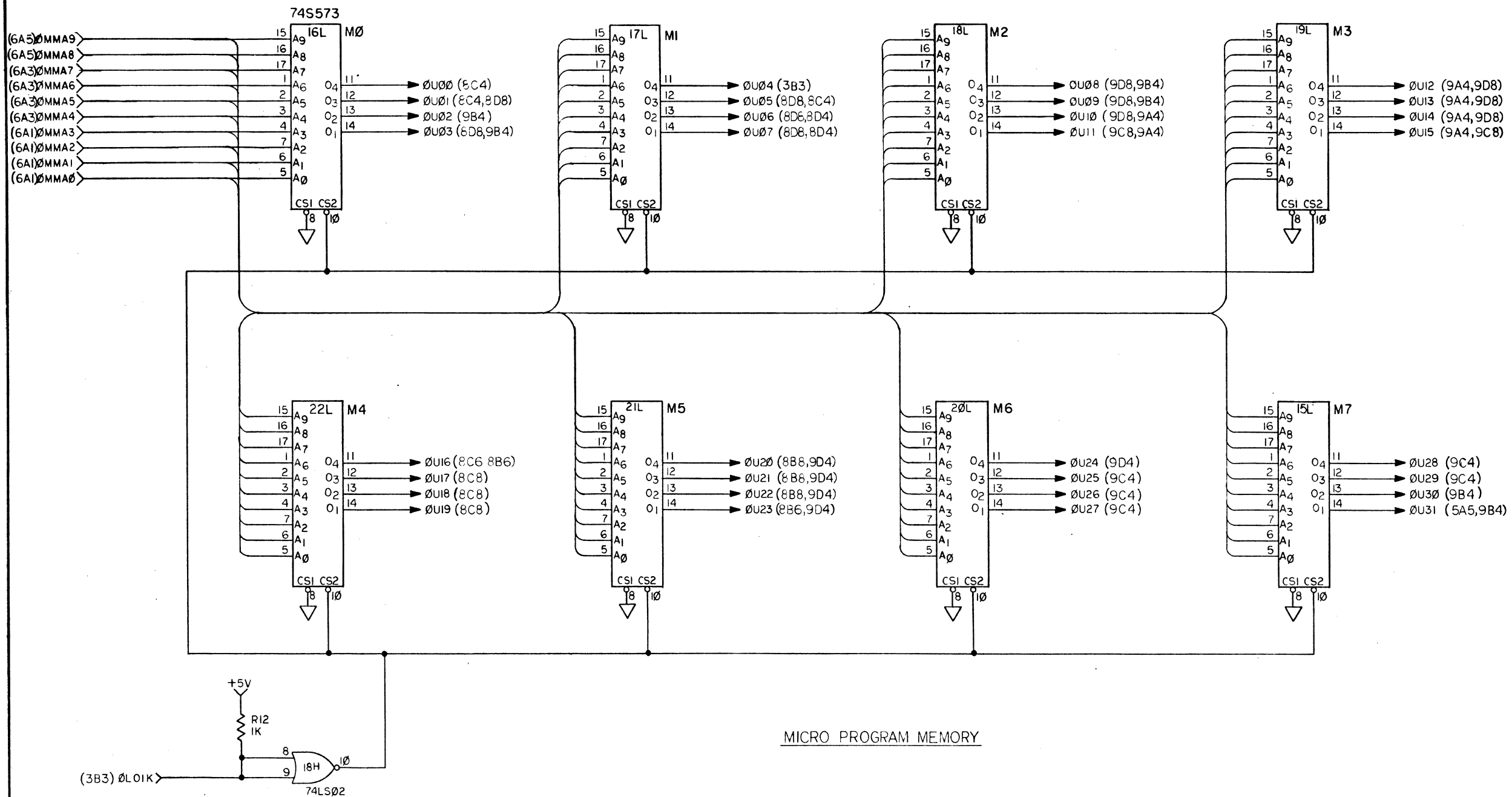
1

D

C

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A



MICRO PROGRAM MEMORY

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	D	121102	11

DO NOT SCALE DWG SHEET 7

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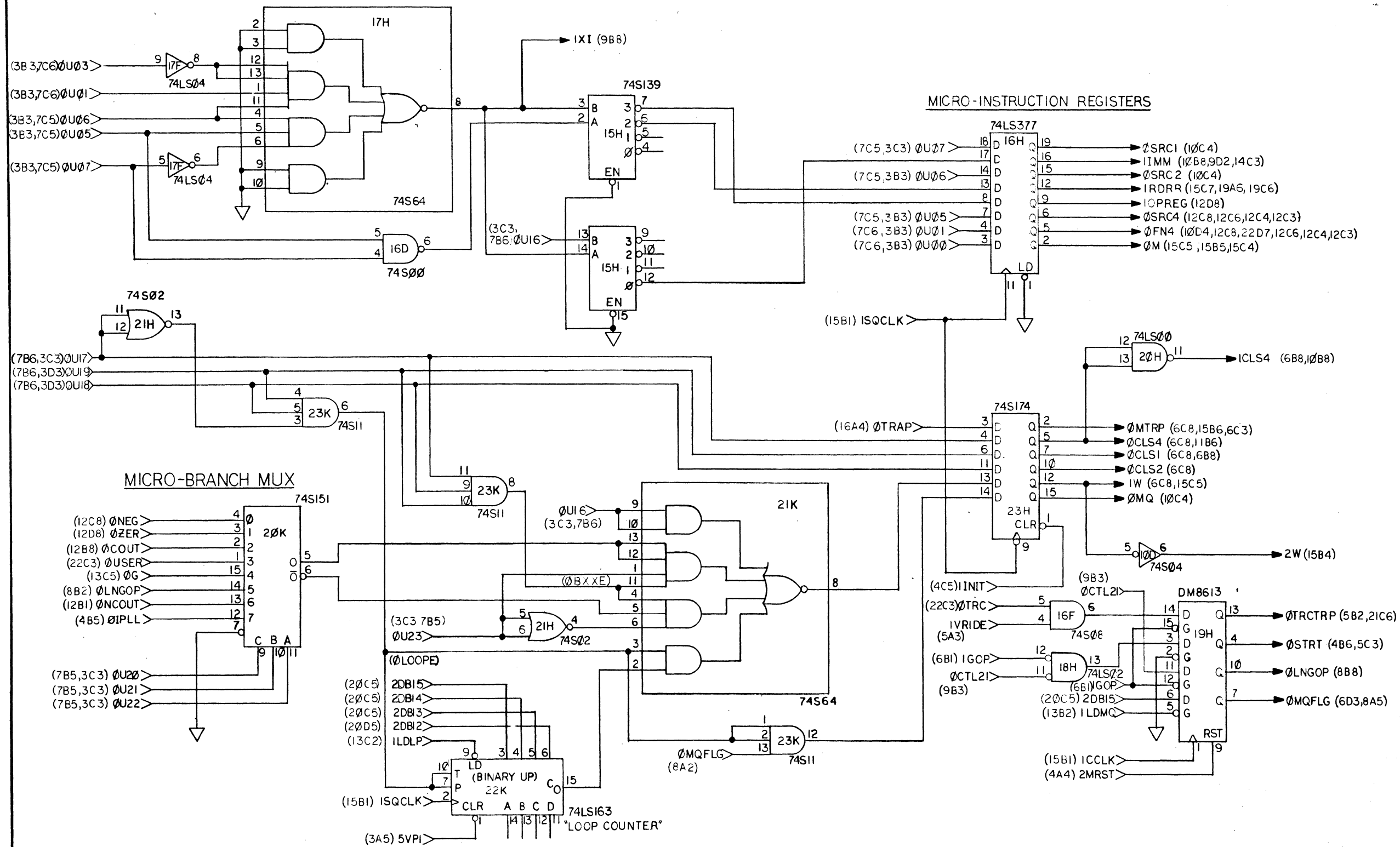
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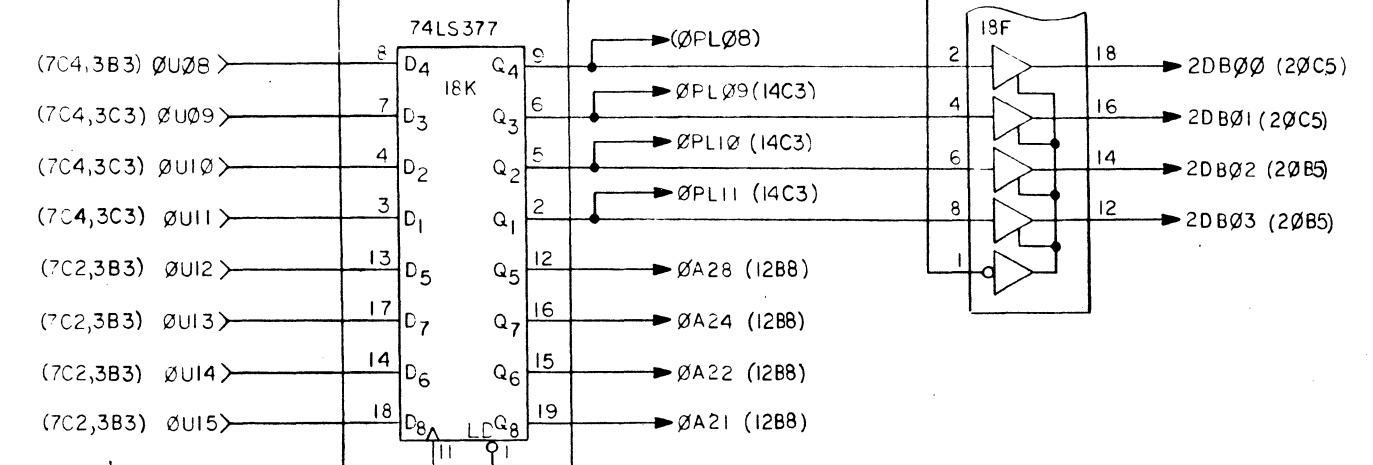
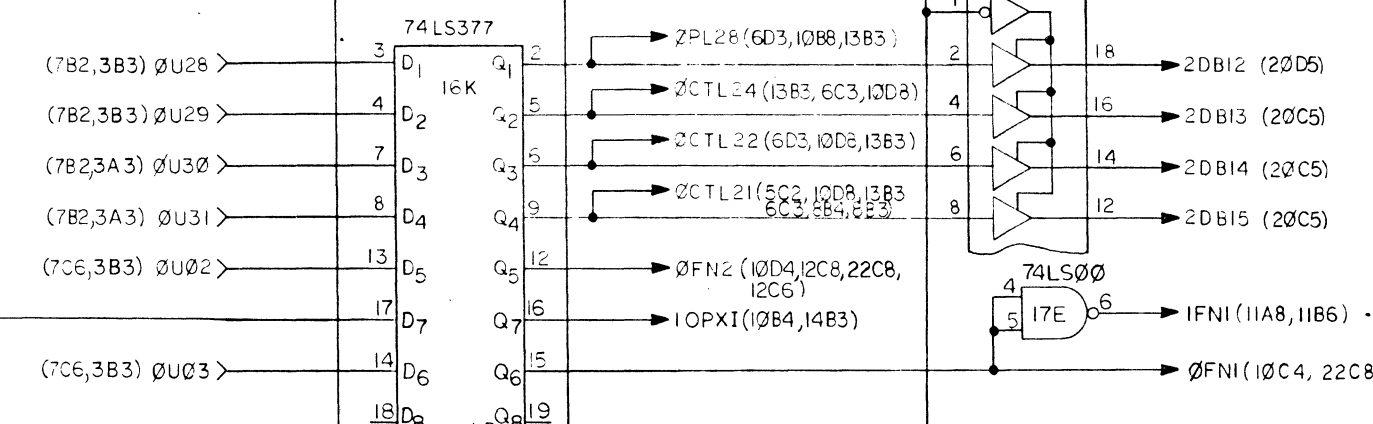
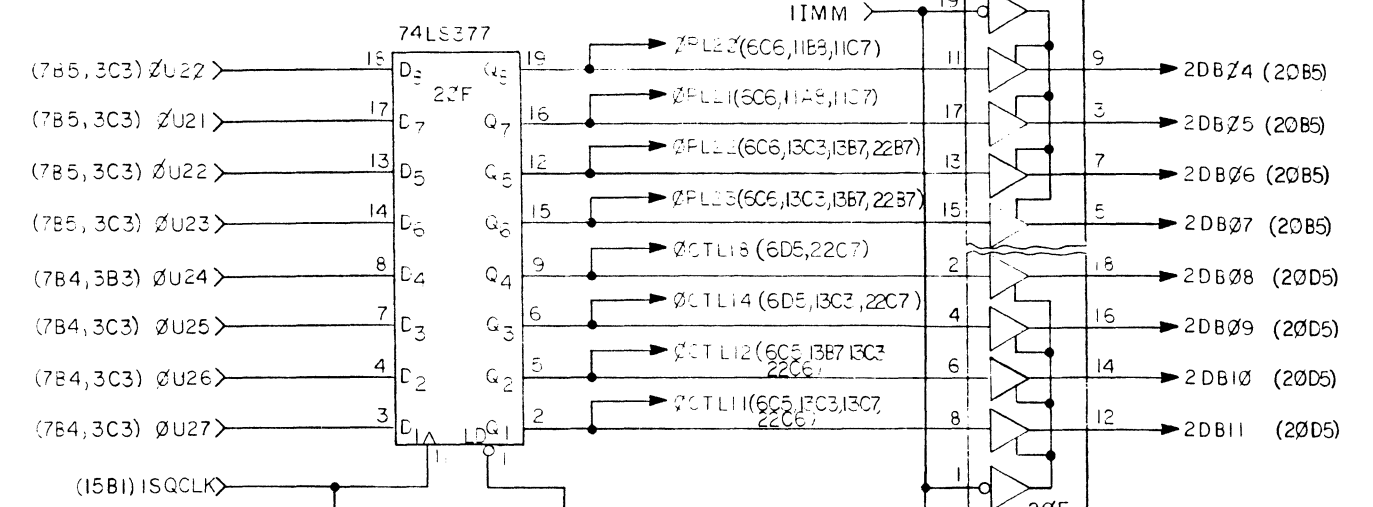
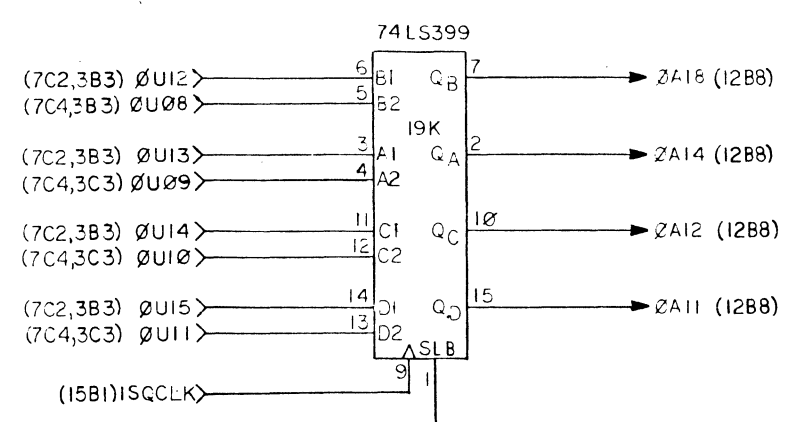
LOOK AHEAD LOGIC

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SIZE	DWG NO	REV
D	121102	14
DO NOT SCALE DWG		SHEET 8



MICRO-INSTRUCTION REGISTERS



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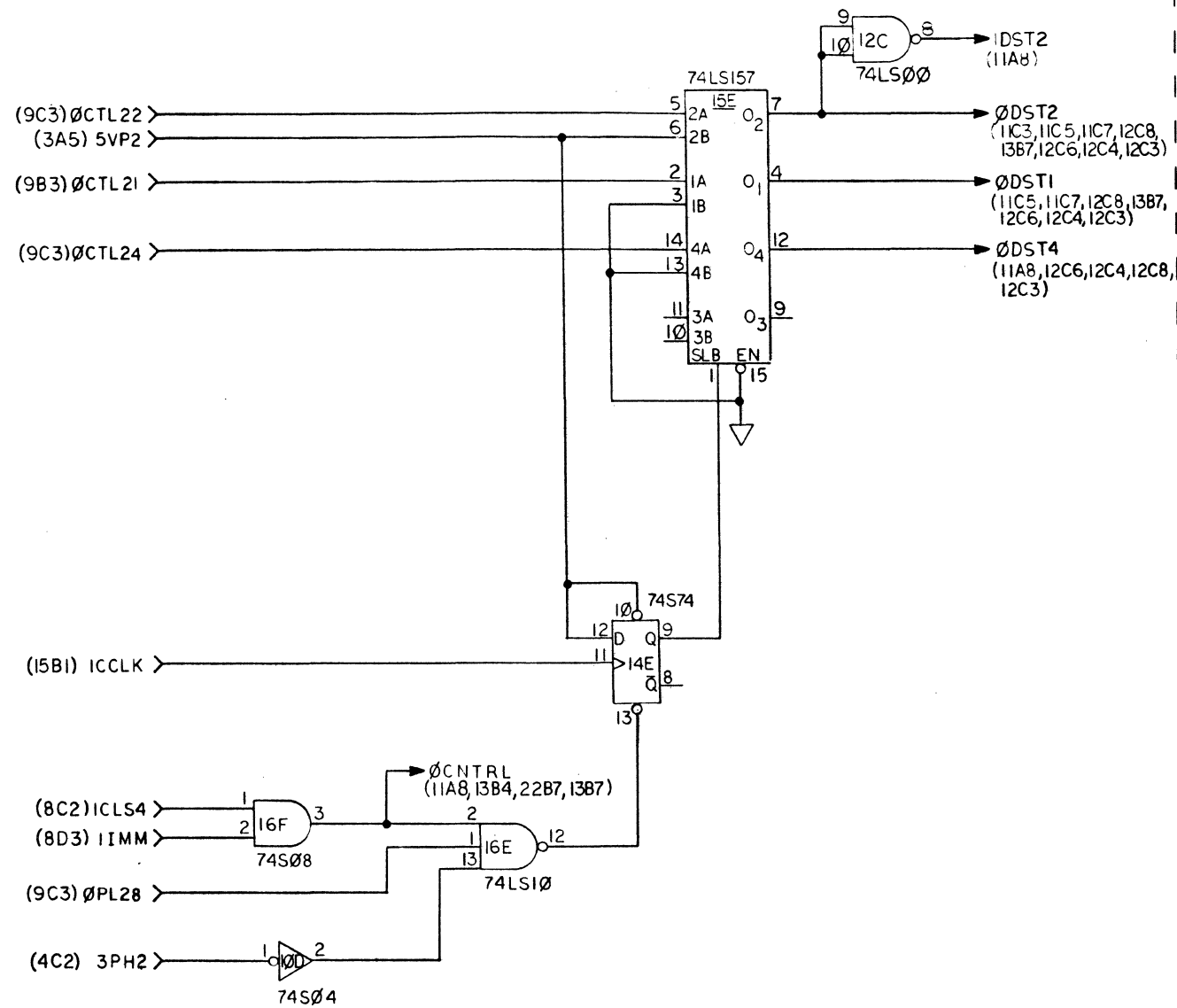
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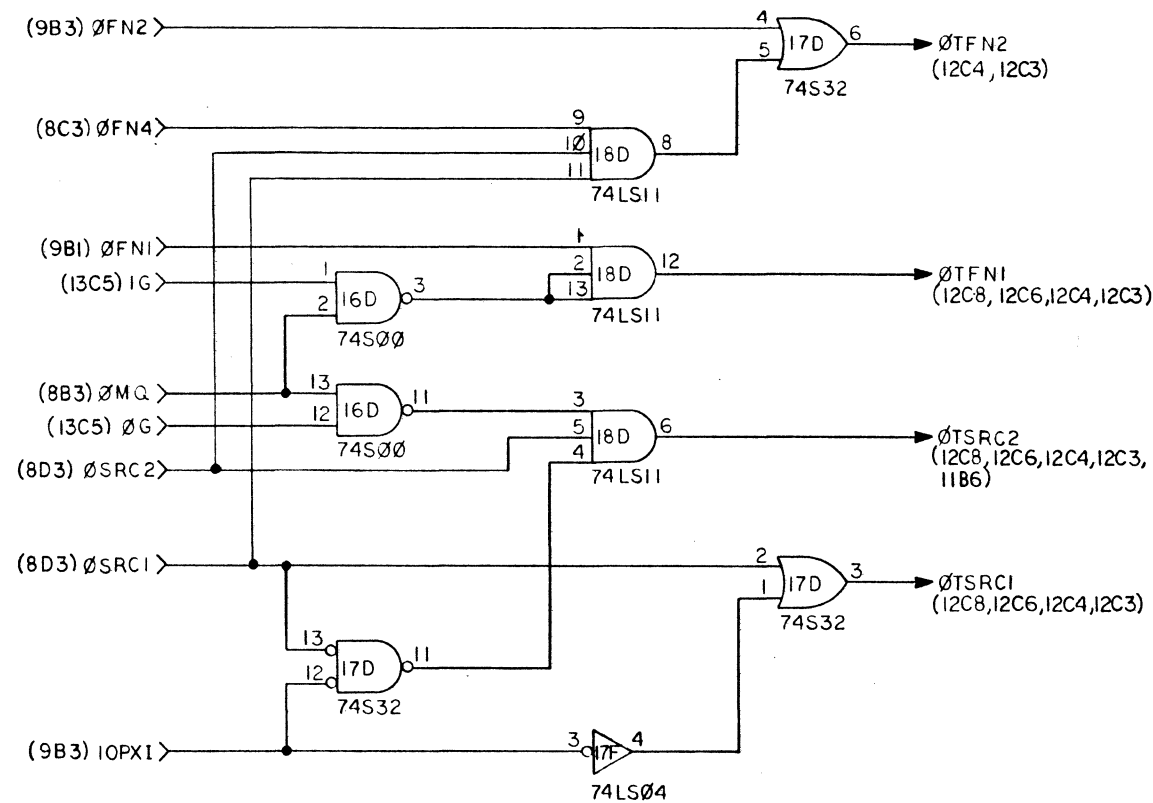
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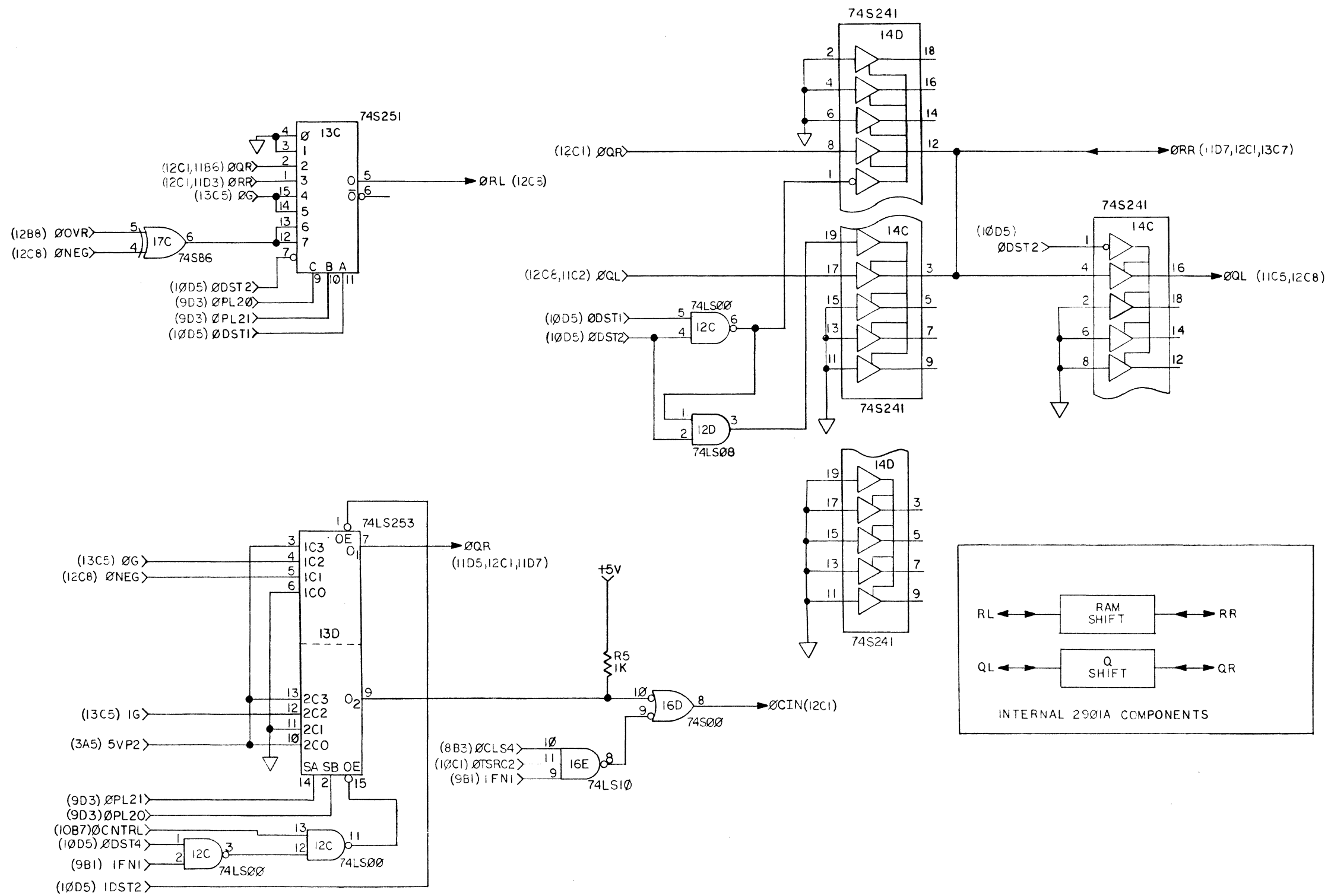


DESTINATION CODE GENERATION



SOURCE AND FUNCTION CODE TRANSLATION

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SIZE	DWG NO	REV
D	121102	11
DO NOT SCALE DWG		SHEET 10



Q REGISTER AND RAM SHIFT LOGIC CIN GENERATION

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DO NOT SCALE DWG		SHEET 11	

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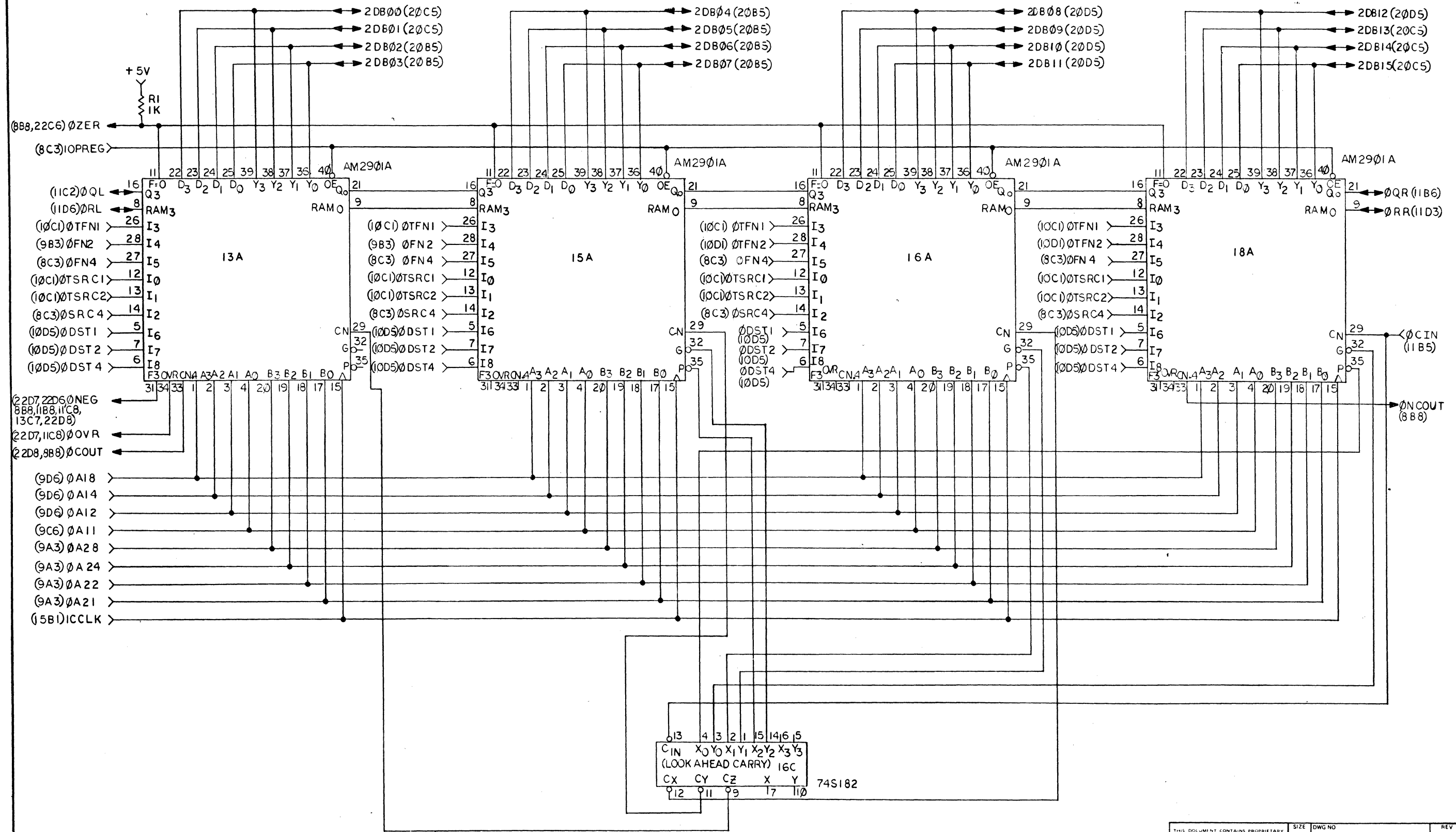
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MICRO PROCESSOR BIT SLICES



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SIZE	DWG NO	REV
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DO NOT SCALE DWG		SHEET 12

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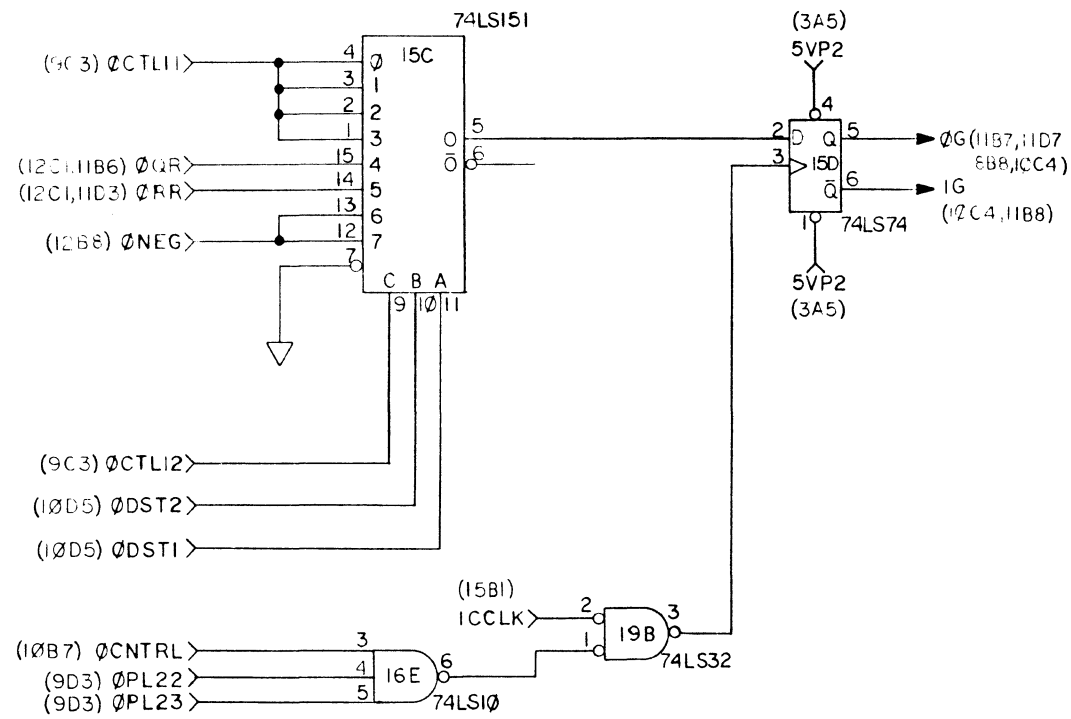
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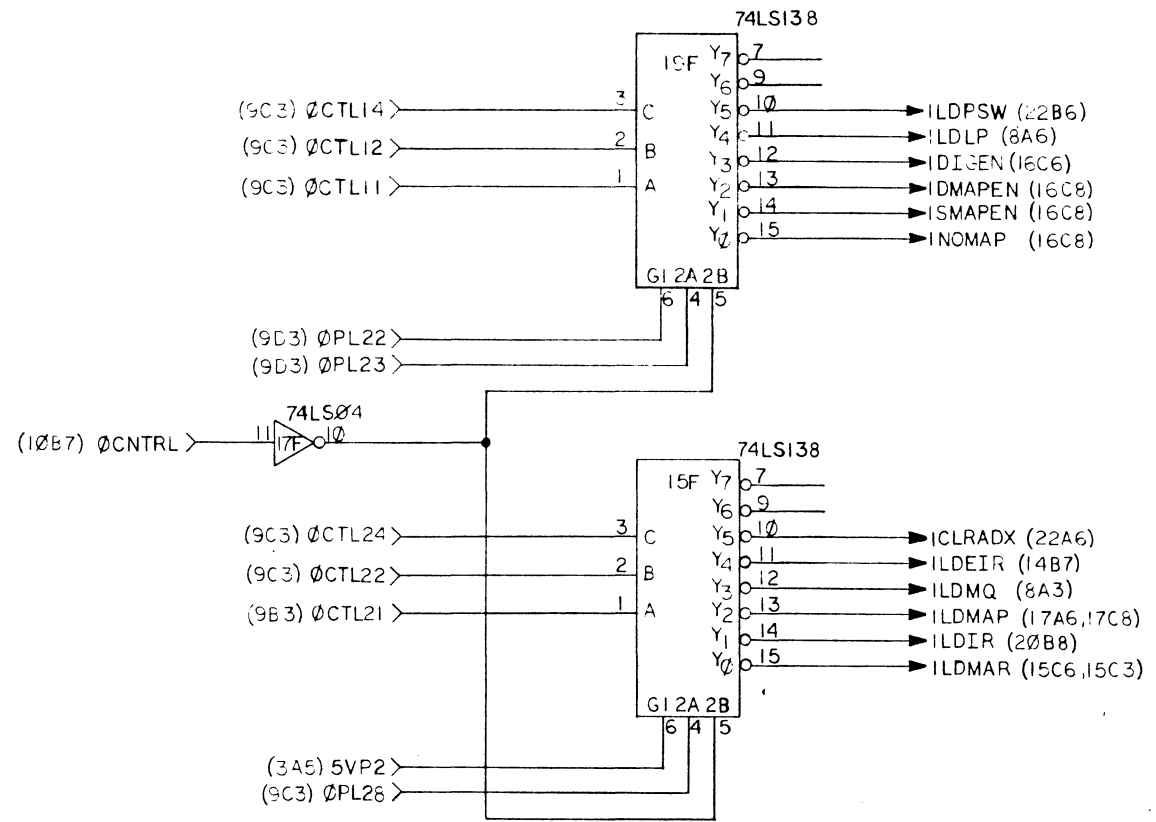
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FLAG LOGIC



SPECIAL CONTROL DECODE

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DO NOT SCALE DWG SHEET 13

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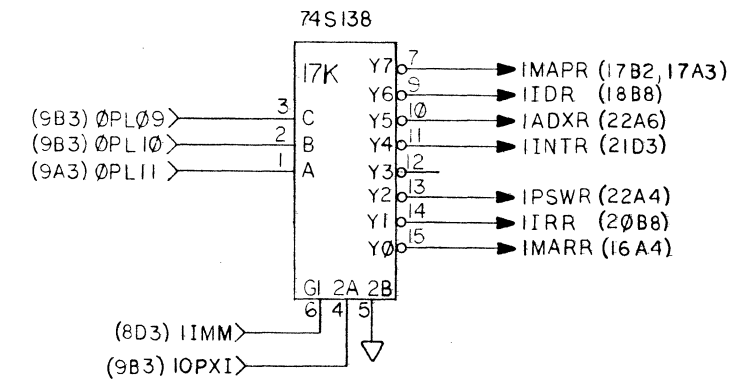
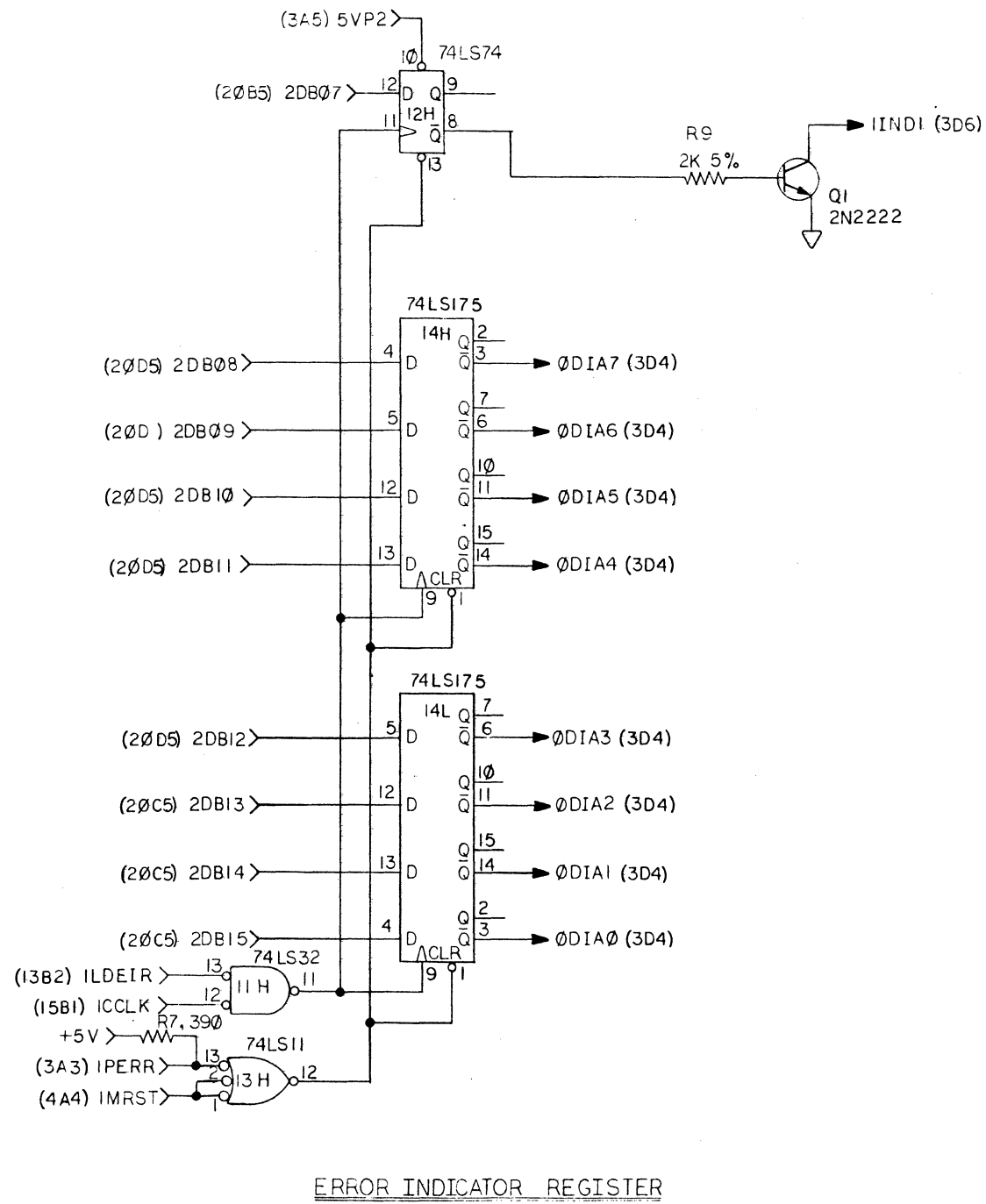
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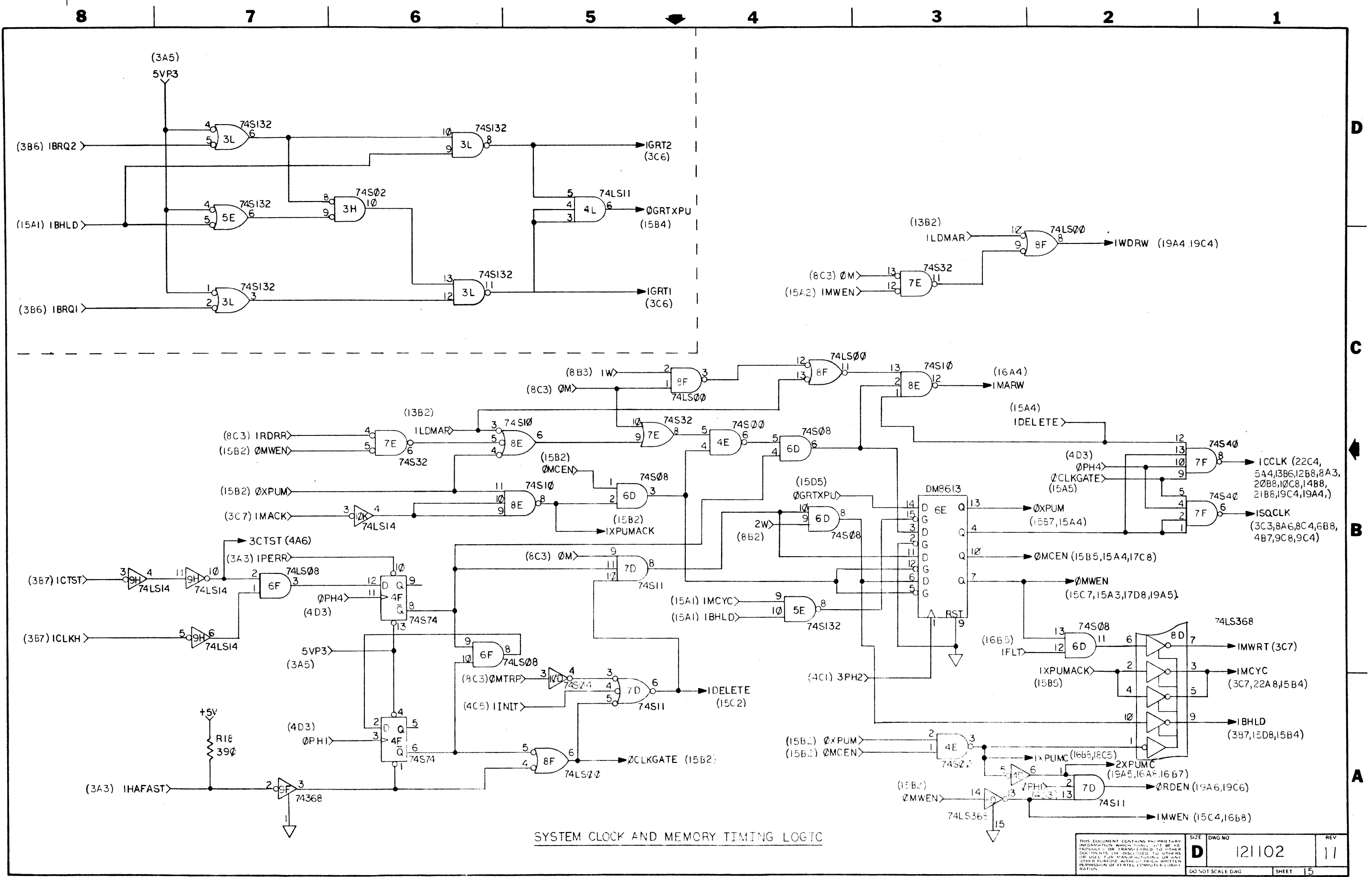
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	D	121102	11
DO NOT SCALE DWG		SHEET 14	



SYSTEM CLOCK AND MEMORY TIMING LOGIC

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DO NOT SCALE DWG		SHEET	15	

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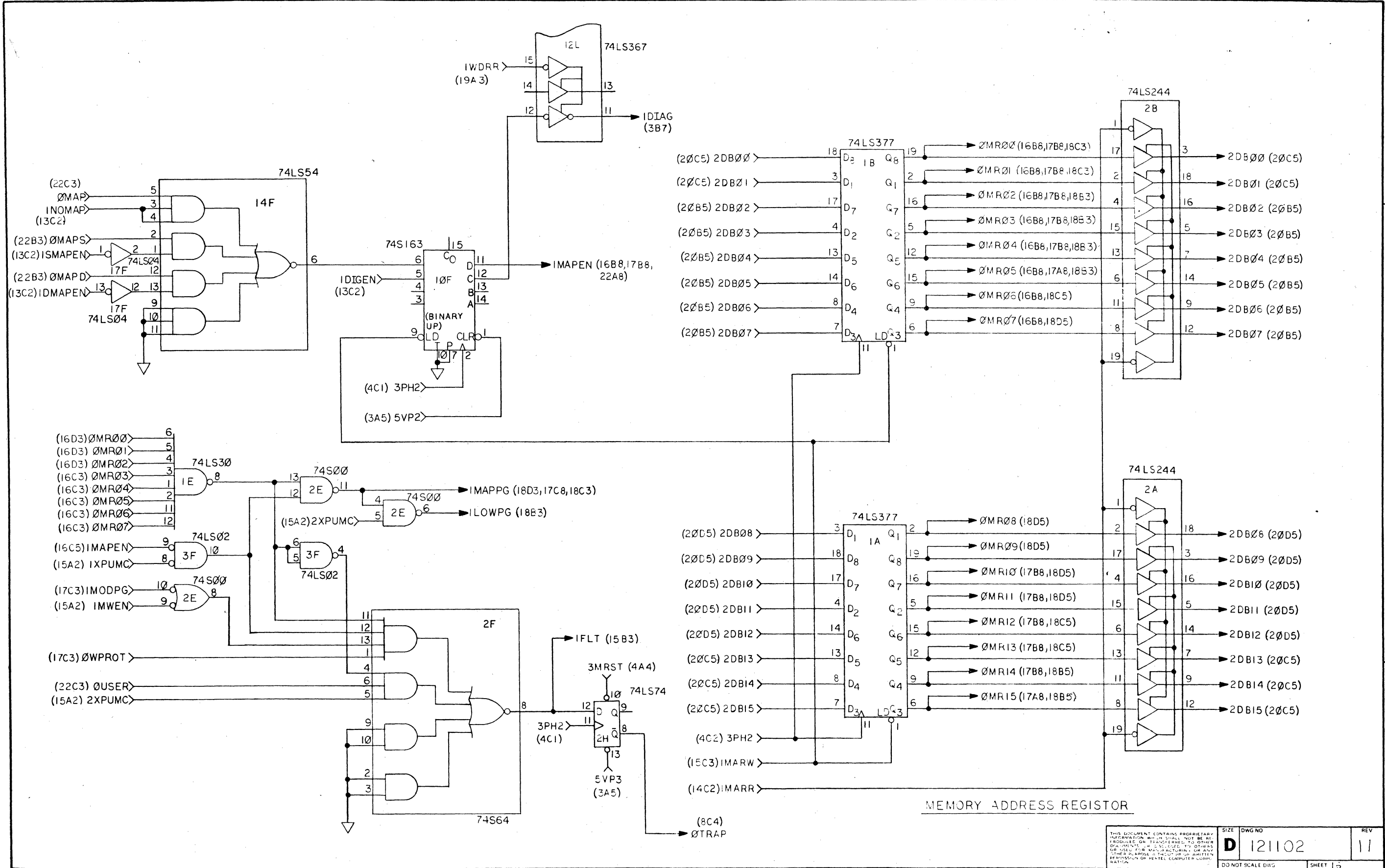
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DO NOT SCALE DWG			SHEET 15



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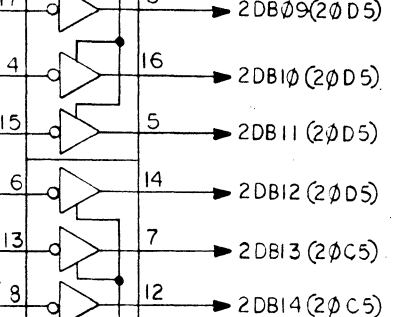
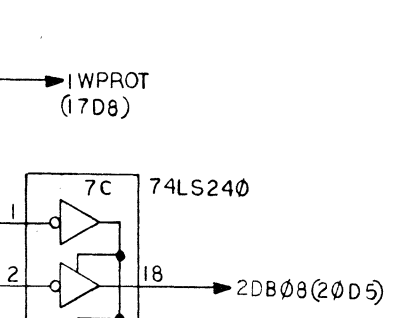
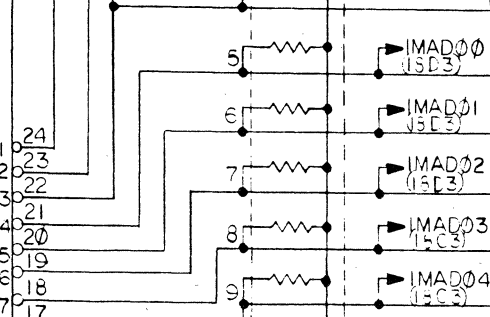
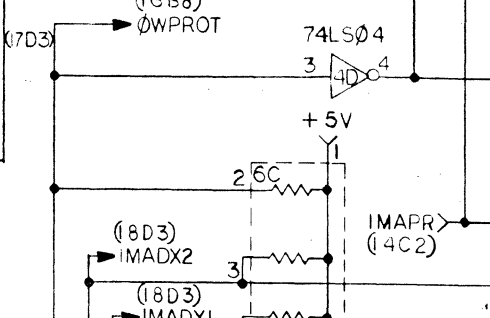
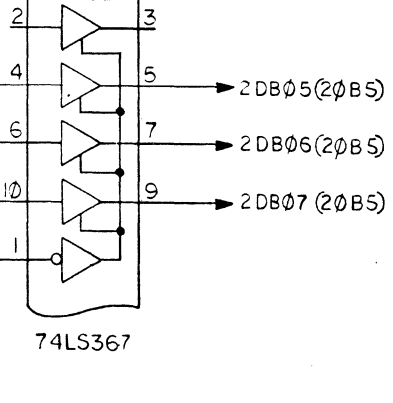
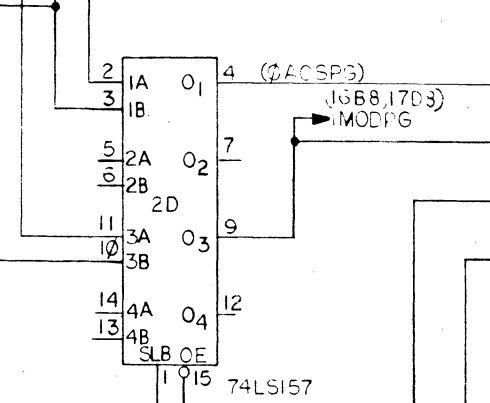
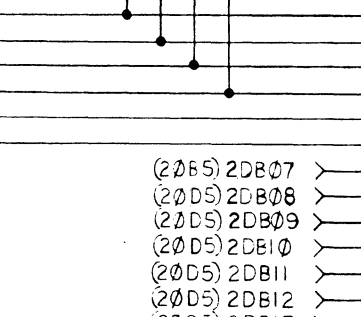
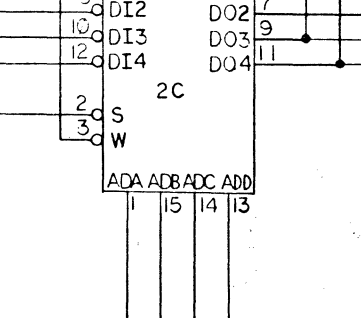
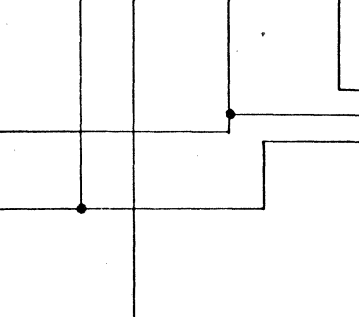
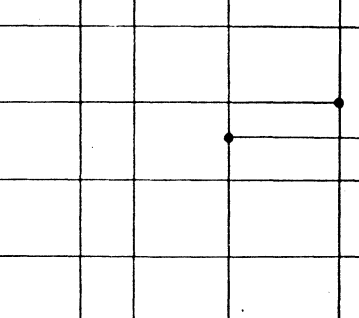
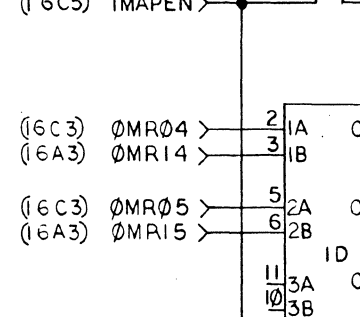
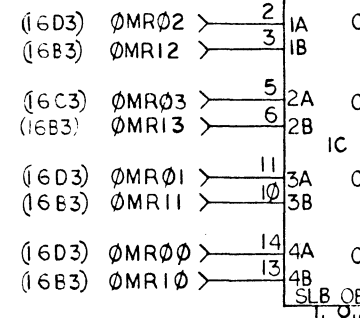
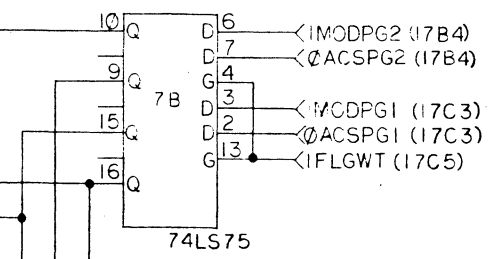
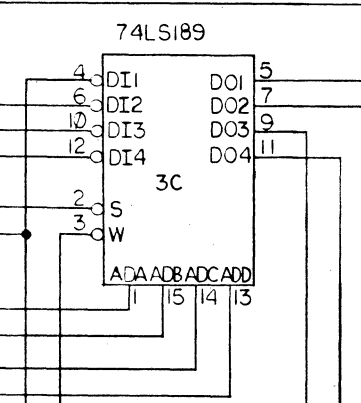
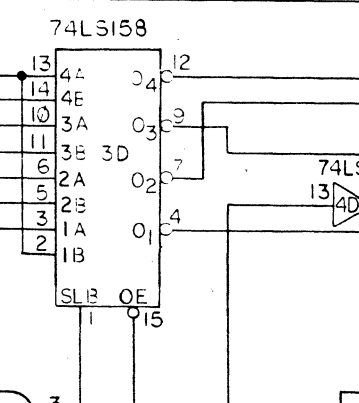
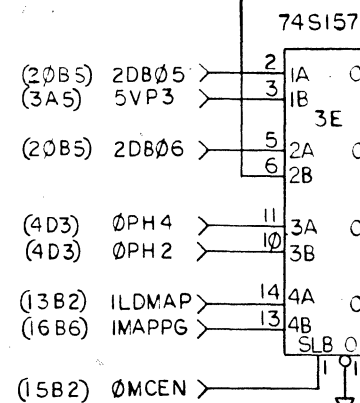
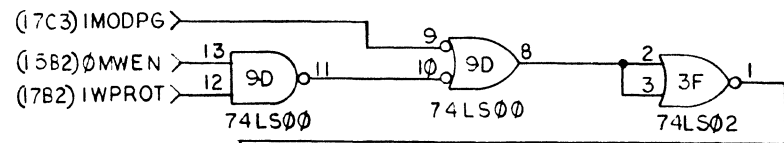
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ADDRESS MAPPING REGISTERS



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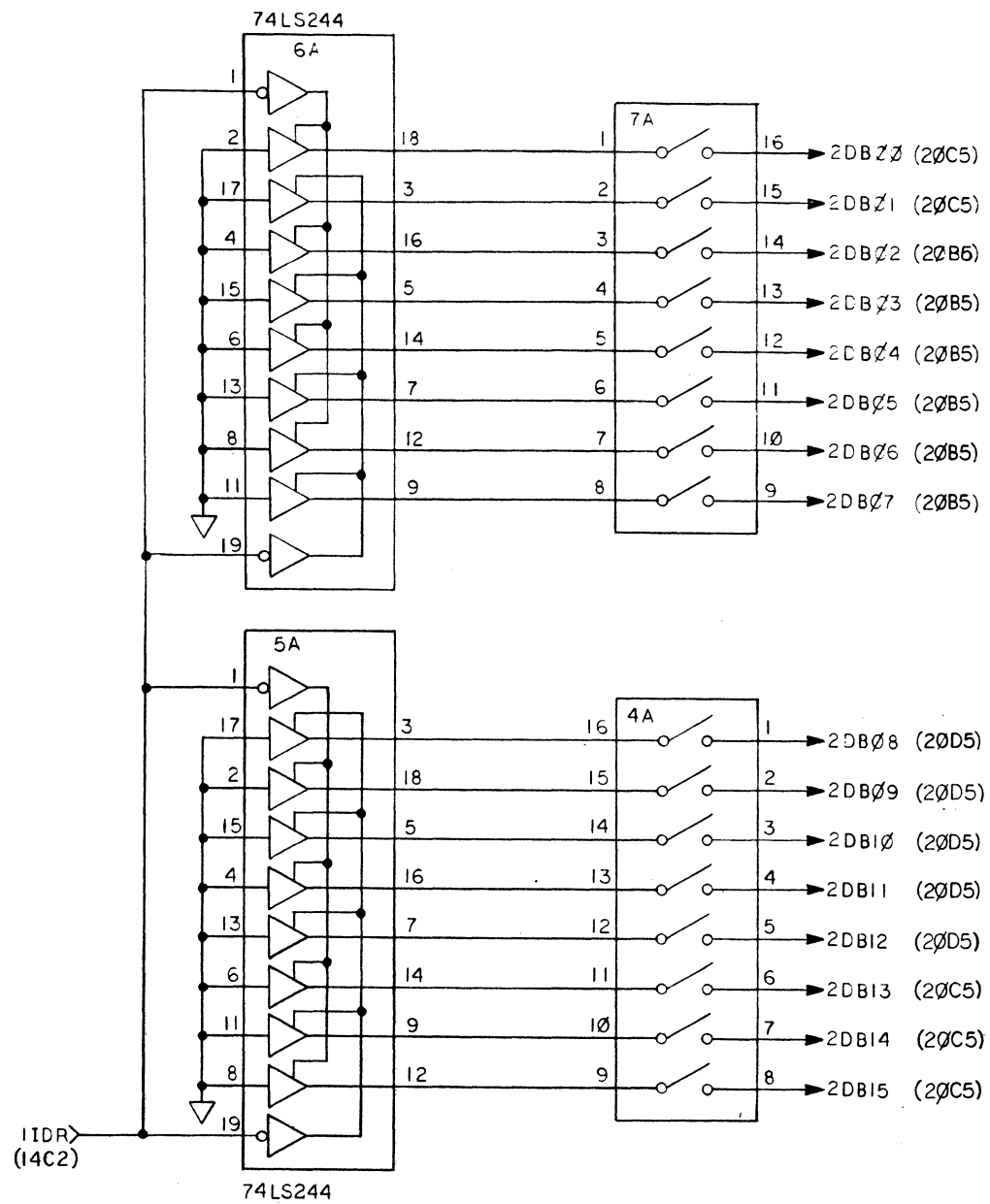
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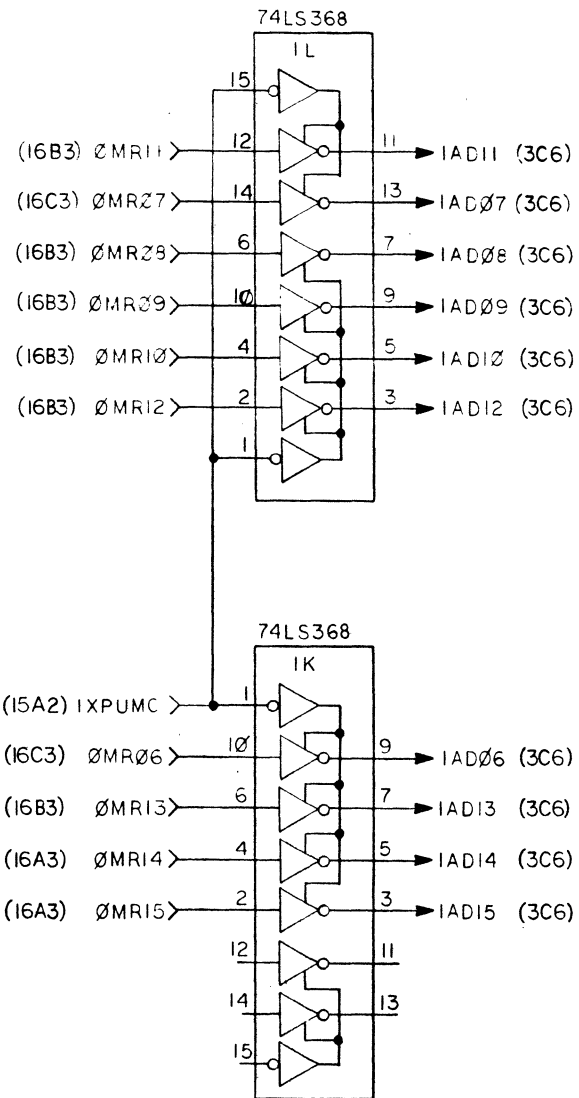
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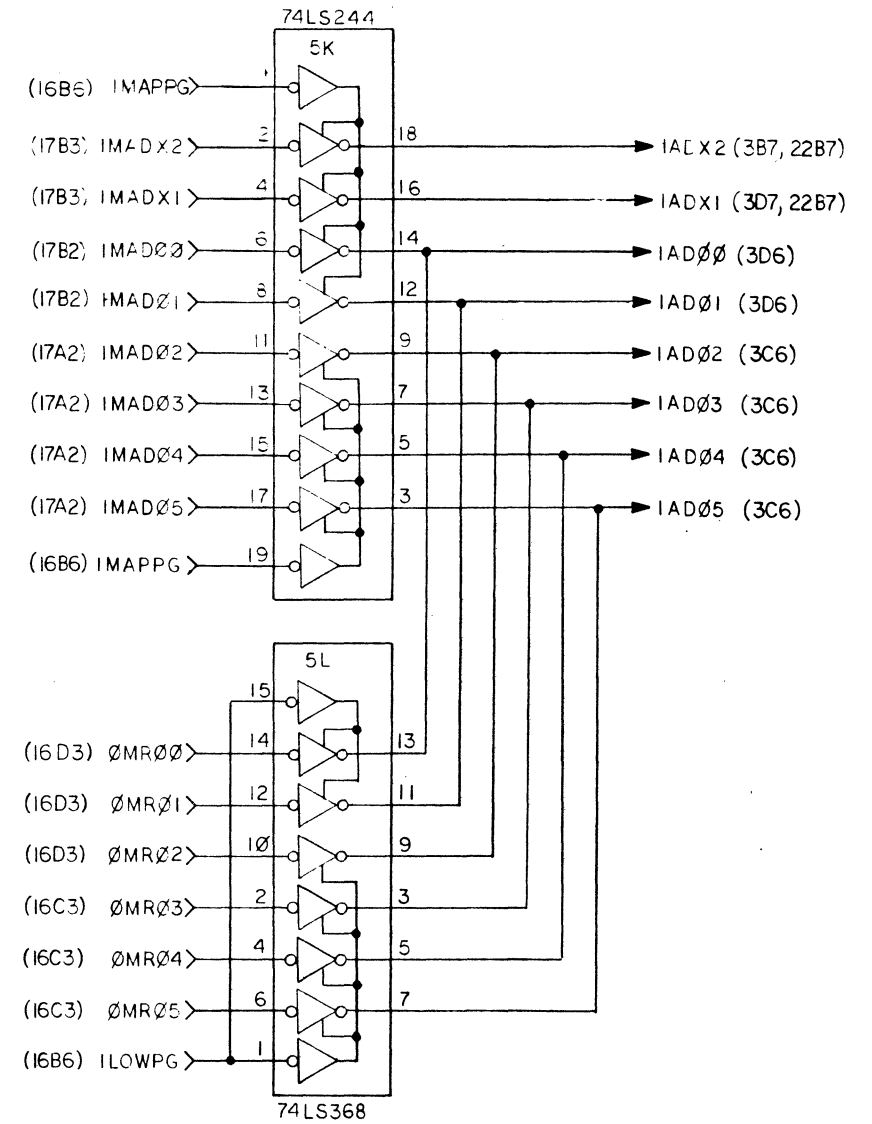
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OPTION ID SWITCHES



ADDRESS BUS DRIVERS



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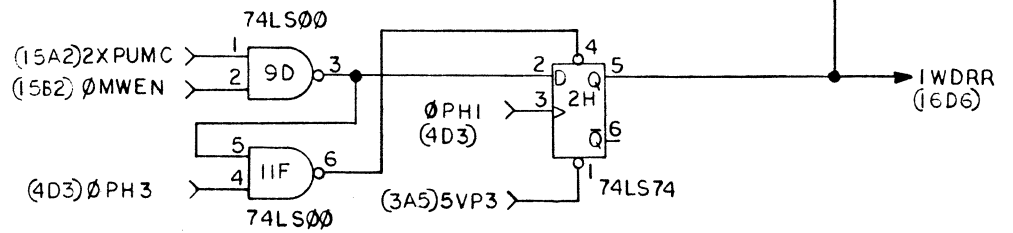
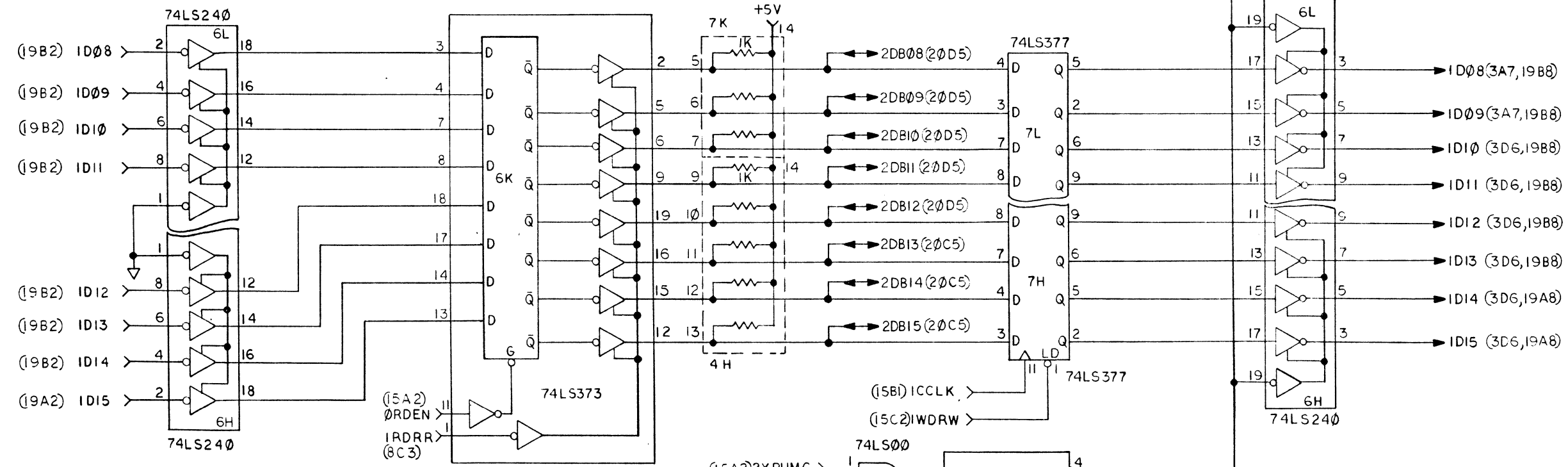
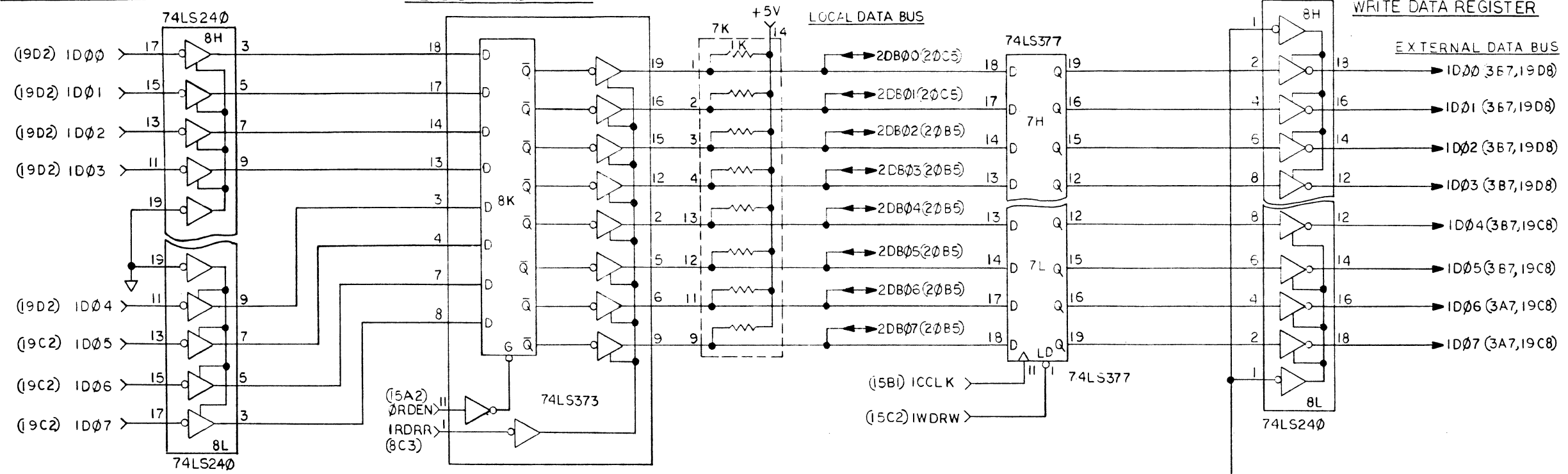
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EXTERNAL DATA BUS

READ DATA REGISTER

LOCAL DATA BUS

WRITE DATA REGISTER



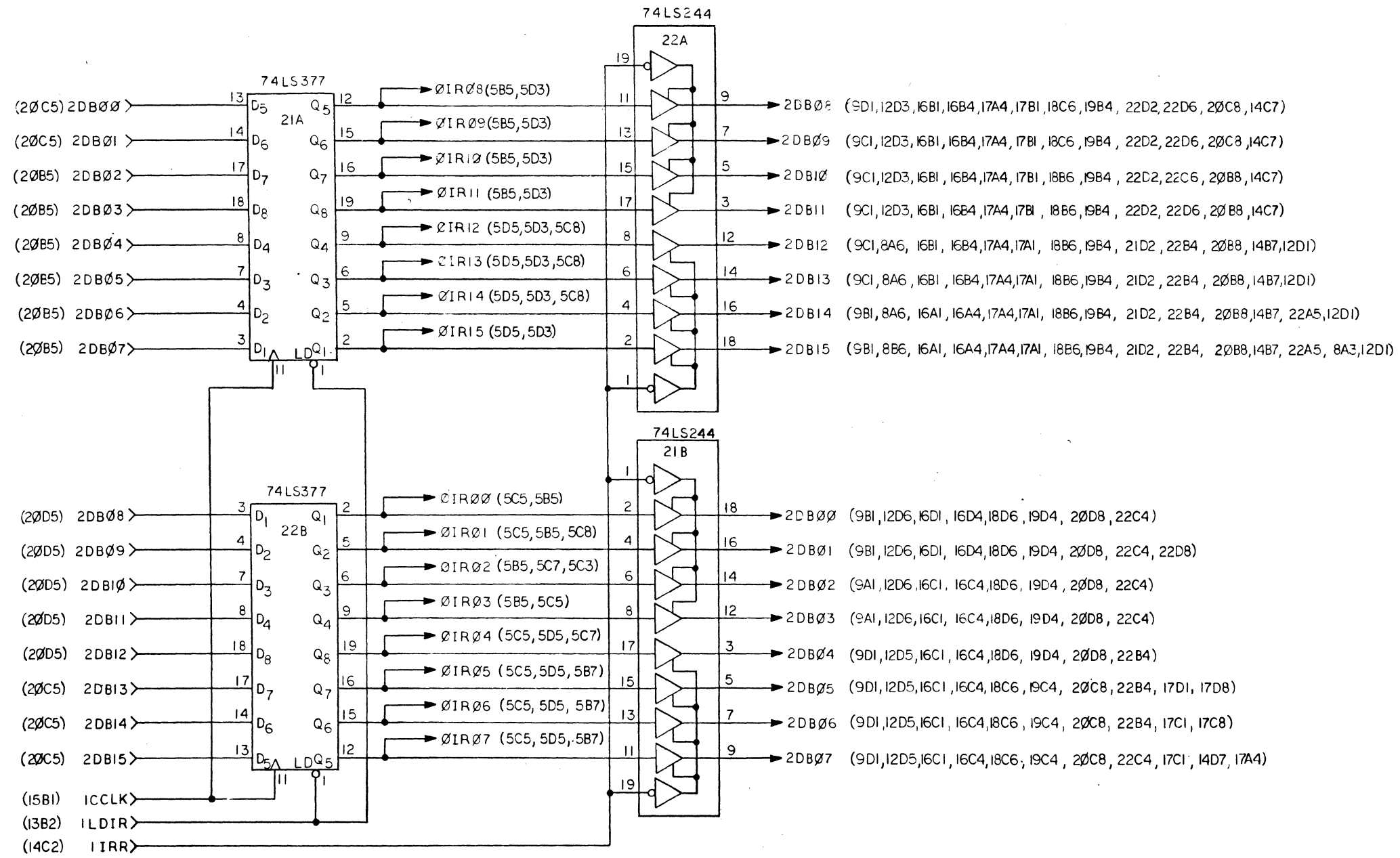
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SIZE	DWG NO	REV
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DO NOT SCALE DWG		SHEET 19

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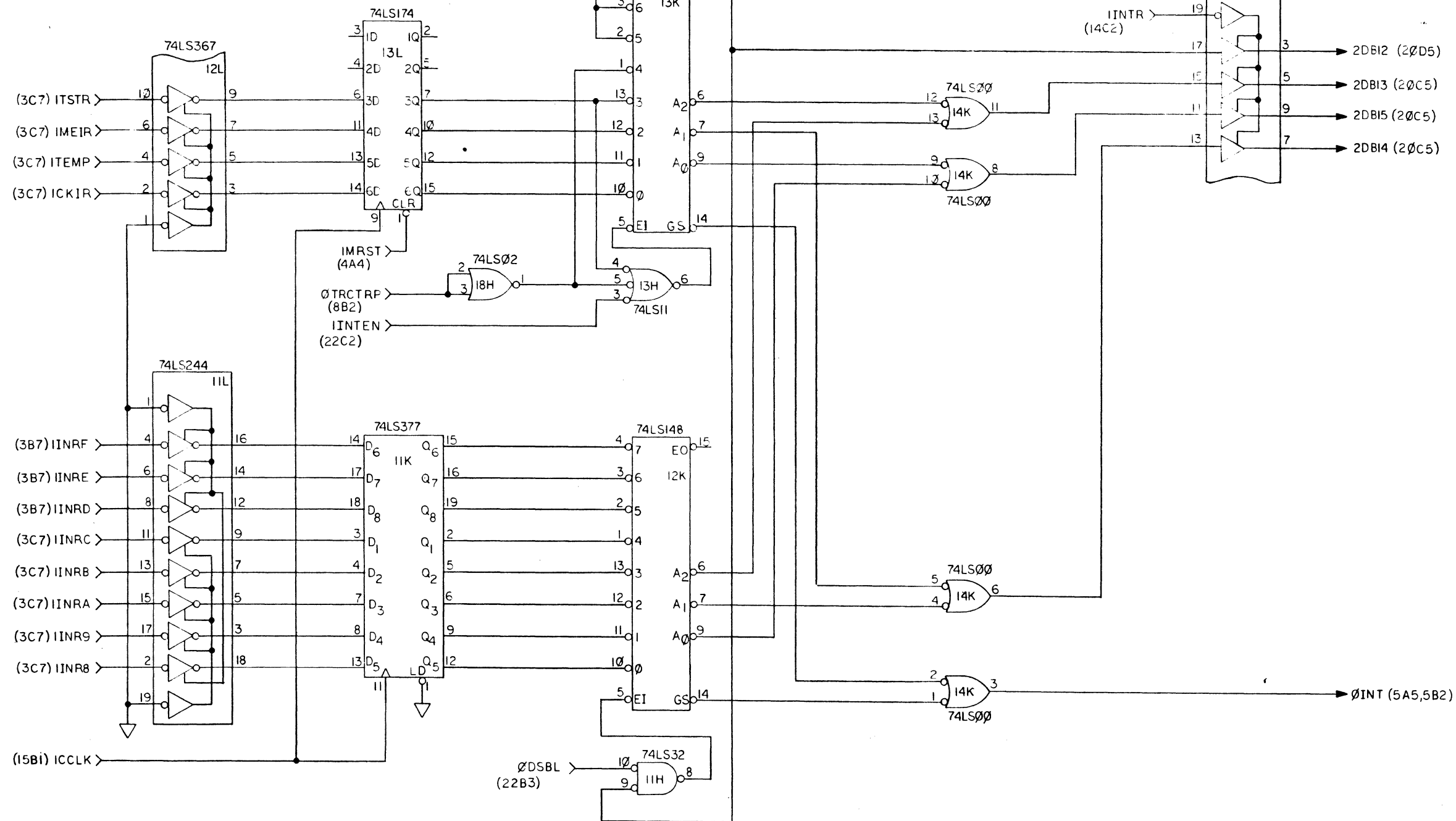
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DO NOT SCALE DWG		SHEET 20	

8      7      6      5      4      3      2      1

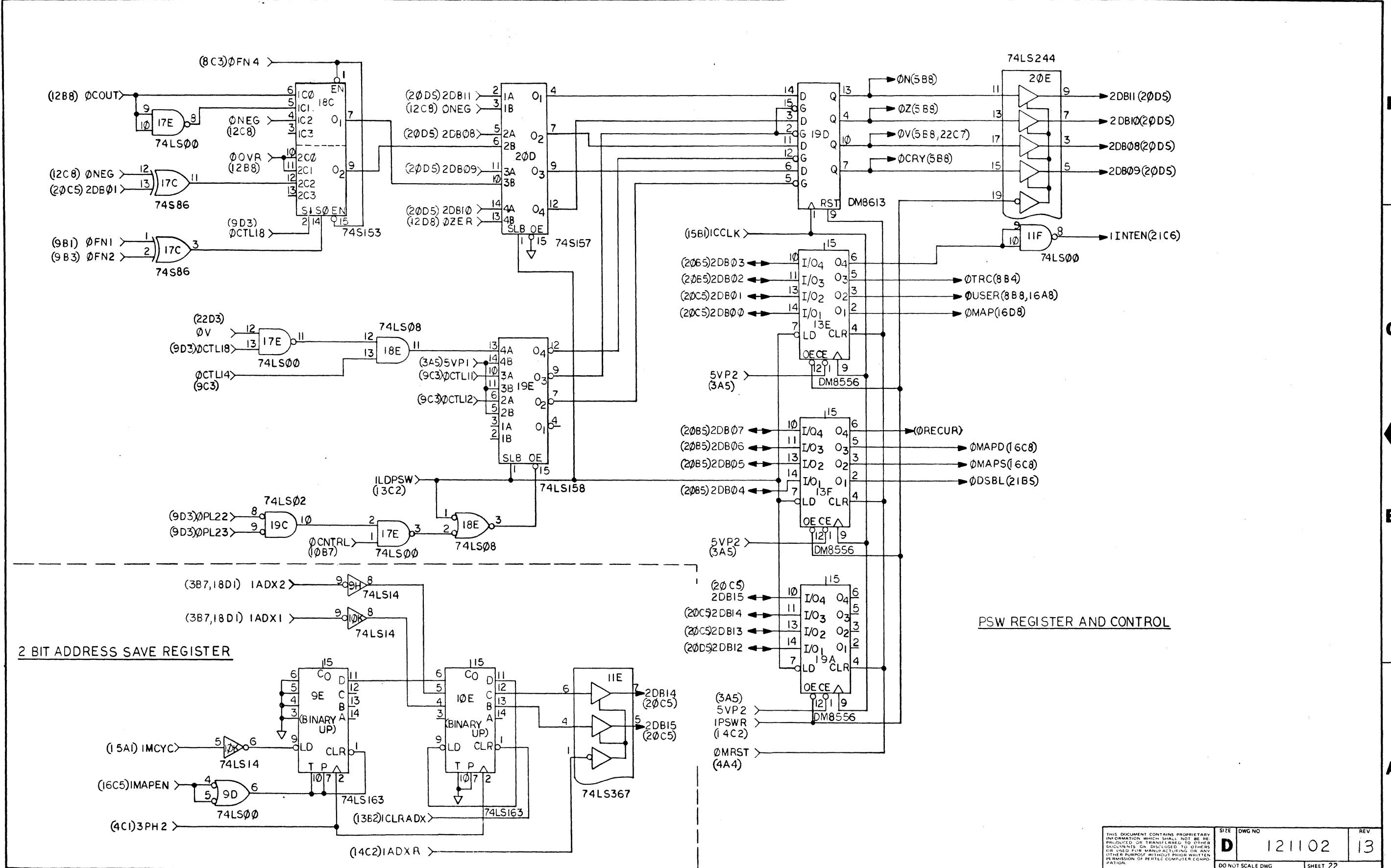


INTERRUPT LATCH

INTERRUPT PRIORITY ENCODER

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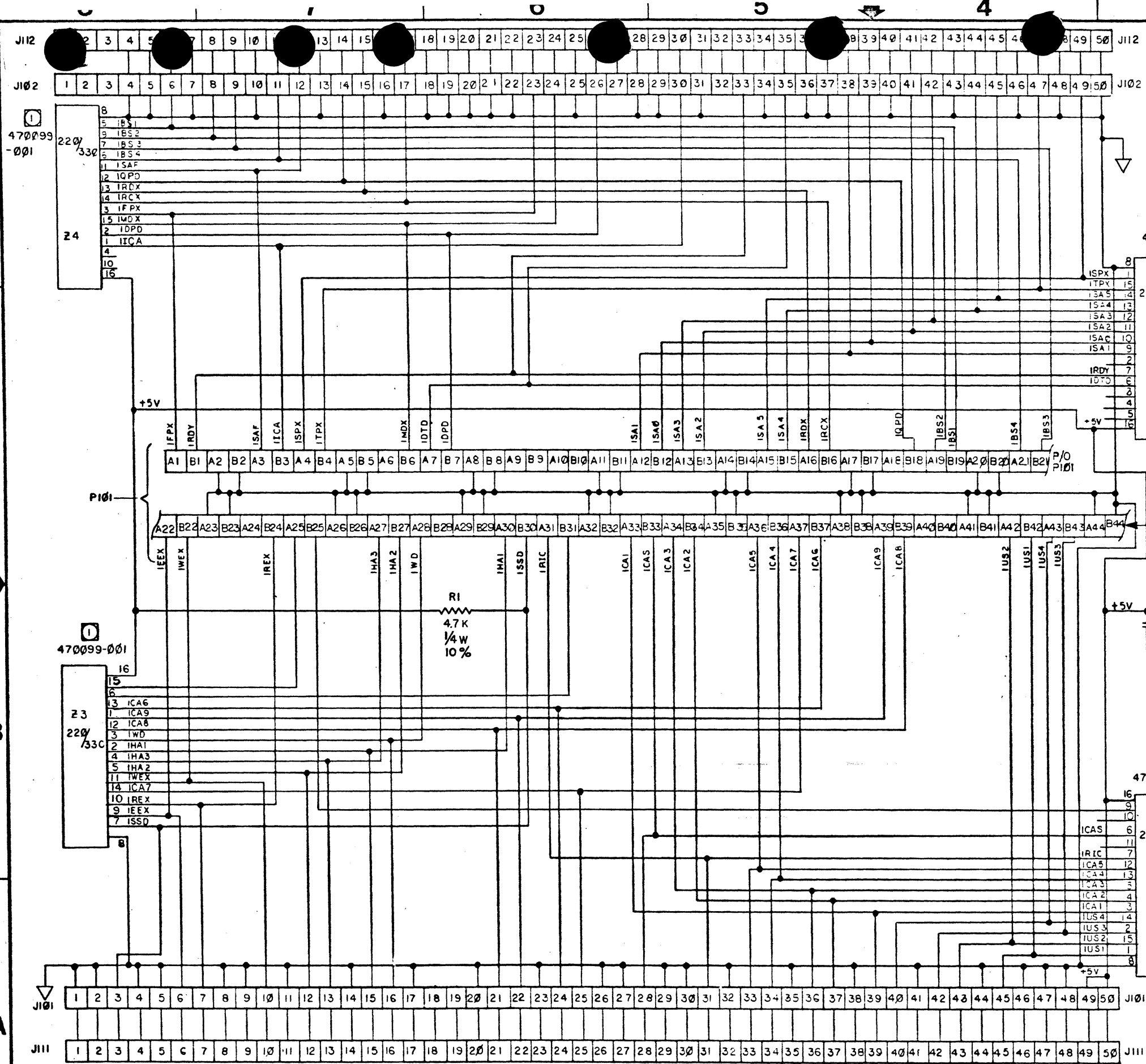
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	D	121102	11
DO NOT SCALE DWG		SHEET 21	



2 BIT ADDRESS SAVE REGISTER

PSW REGISTER AND CONTROL

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DO NOT SCALE DWG		SHEET 22	

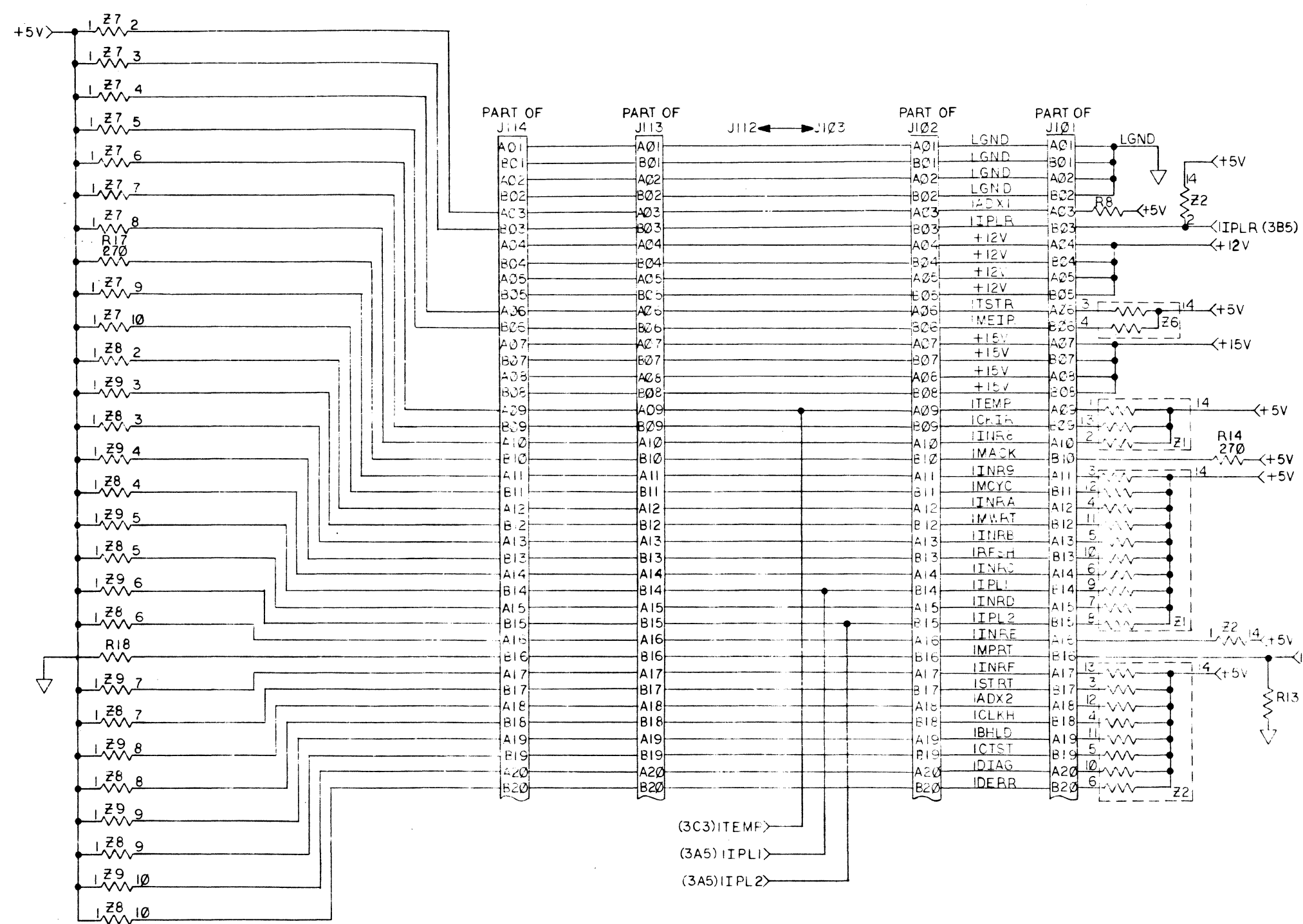


REVISION	DESCRIPTION	DATE	APPROVED	DRFTG
01	RELEASE PER DRO	11/27/77	TC	
02	CODE CHANGE PER DCO 07092	11/28/77	TC	
03	INCRP DCO NO. 06369	11/28/77	TC	
04	INCRP DCO 08854	11/28/77	TC	
05	INCRP DCO 09025	11/28/77	TC	
06	CODE TO REL W/D CHANGES PER DCO 10498	11/28/77	TC	
07	INCRP DCO 11272	11/28/77	TC	

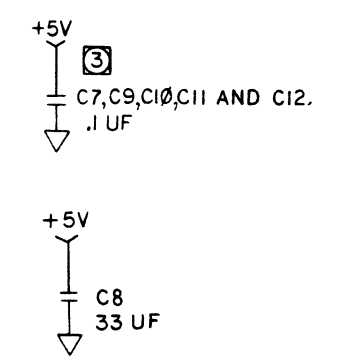
NOTE: UNLESS OTHERWISE SPECIFIED  
 ① TERMINATOR I.C.'S AT Z1, Z2, Z3 AND Z4 ARE INSTALLED AT THE SYSTEM LEVEL.

DRAWN: R. Wallace 11/22/77		DISTRIBUTION CLASS: B	
CHECK: [Signature] 12/13/77		PCB BUSINESS SYSTEMS	
APPR: [Signature] 1/3/78		TITLE: SCHEM, PCBA, D3000 R/D INTERFACE	
RELEASE: [Signature] 1/2/78		CODE IDENT. NO. 121116	
APPLICATION: NTP		SIZE: D	
261124 1 XL40		DWG NO. 121116	
NEXT ASSY QTY: 1		REV: 07	
SCALE: DO NOT SCALE DWG		SHEET: 1 OF 1	

REVISIONS				
SYM	DESCRIPTION	DRFTG	APPROVED	DATE
01	RELEASE PER DRO	LA	EB	5/1/78
02	CODE 06 RELEASE WITH CHANGES PER ENS INPUT. RELEASE PER DRO 7, 27	EV	F.L.	5/1/78
03	ADK = DCC 07487	LA	EB	5/1/78
04	INCORP DCO 08530	TR	EB	10/1/78
05	INCORP DCO 09695	EM	EB	1/1/79
06	CODE 10 REL W/O CHANGES PER DCO 10498	EM	EB	4/1/79
07	INCORP DCO 10415	EM	EB	4/2/79



NOTE: UNLESS OTHERWISE SPECIFIED  
 1. ALL RESISTORS ARE 1K, 1/4W, ±10%.  
 2. ALL CAPACITOR VALUES ARE IN UF, ±20%, 50V.  
 3. C7, C9, C10, C11 AND C12 FOR FUTURE REQUIREMENT.



(3C3) ITEMP  
 (3A5) IPLI  
 (3A5) IPL2

DRAWN		CHECK		APPR		RELEASE		TITLE		CODE / IDENT. NO		SIZE		DWG NO		REV	
NTP		XLC		XLC		XLC		SCHEM, PCBA, BACKWIRING		D		121147		07			
NEXT ASSY		QTY		MODEL		QTY		DC CODE		SCALE		DO NOT SCALE DWG		SHEET		OF 3	

**BUSINESS SYSTEMS**  
 A Division of Peritek Corporation

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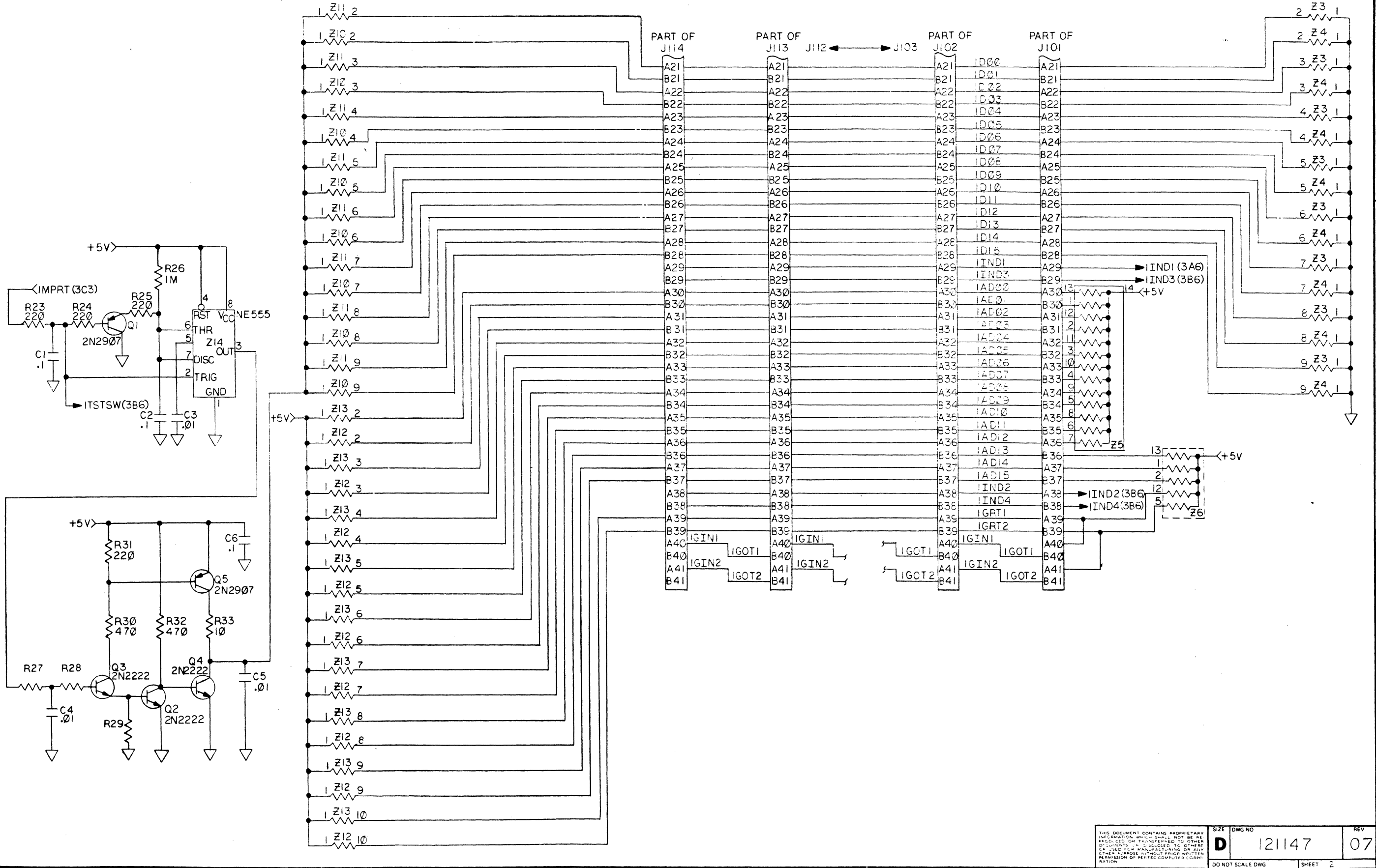
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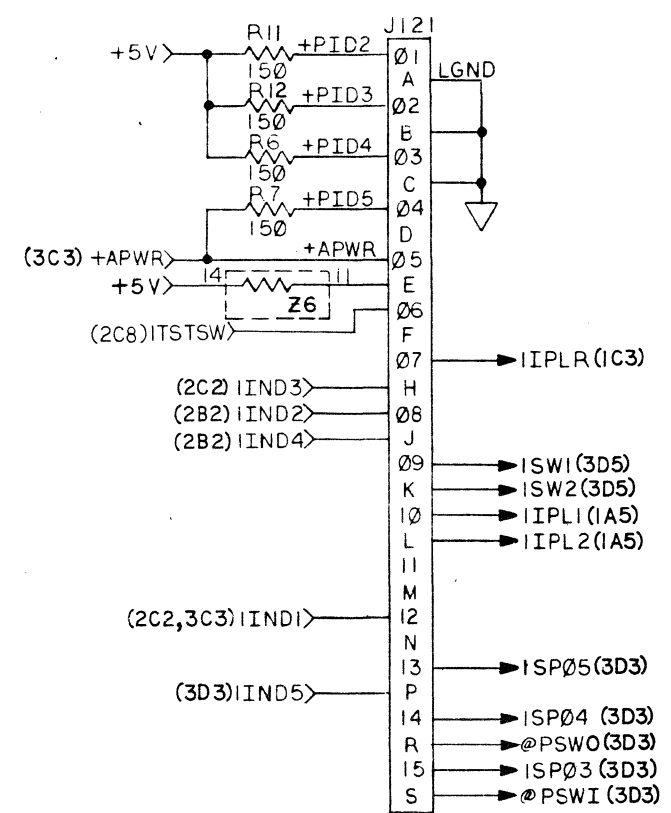
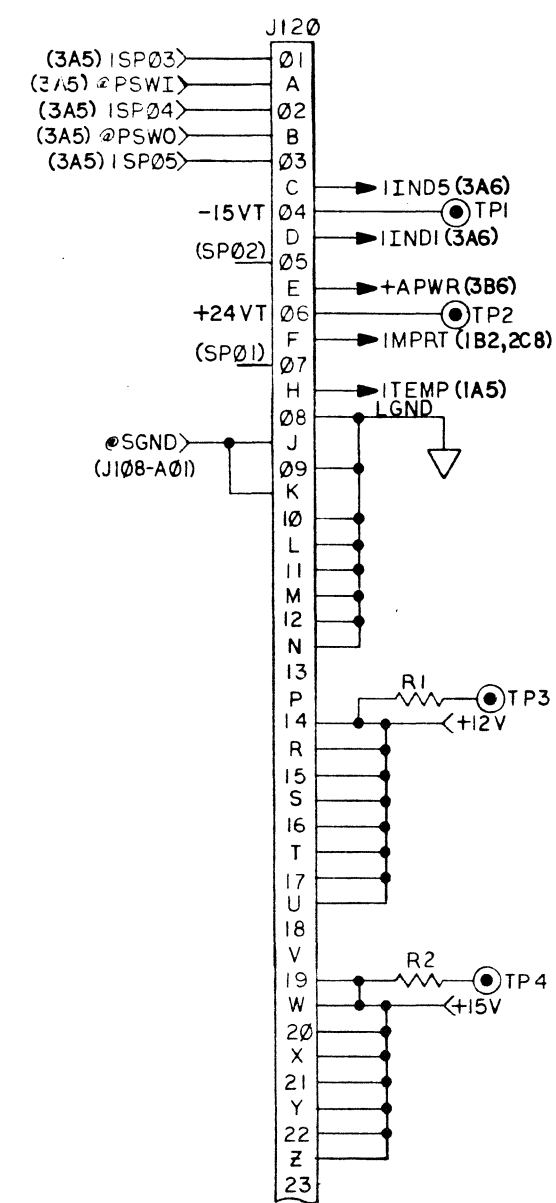
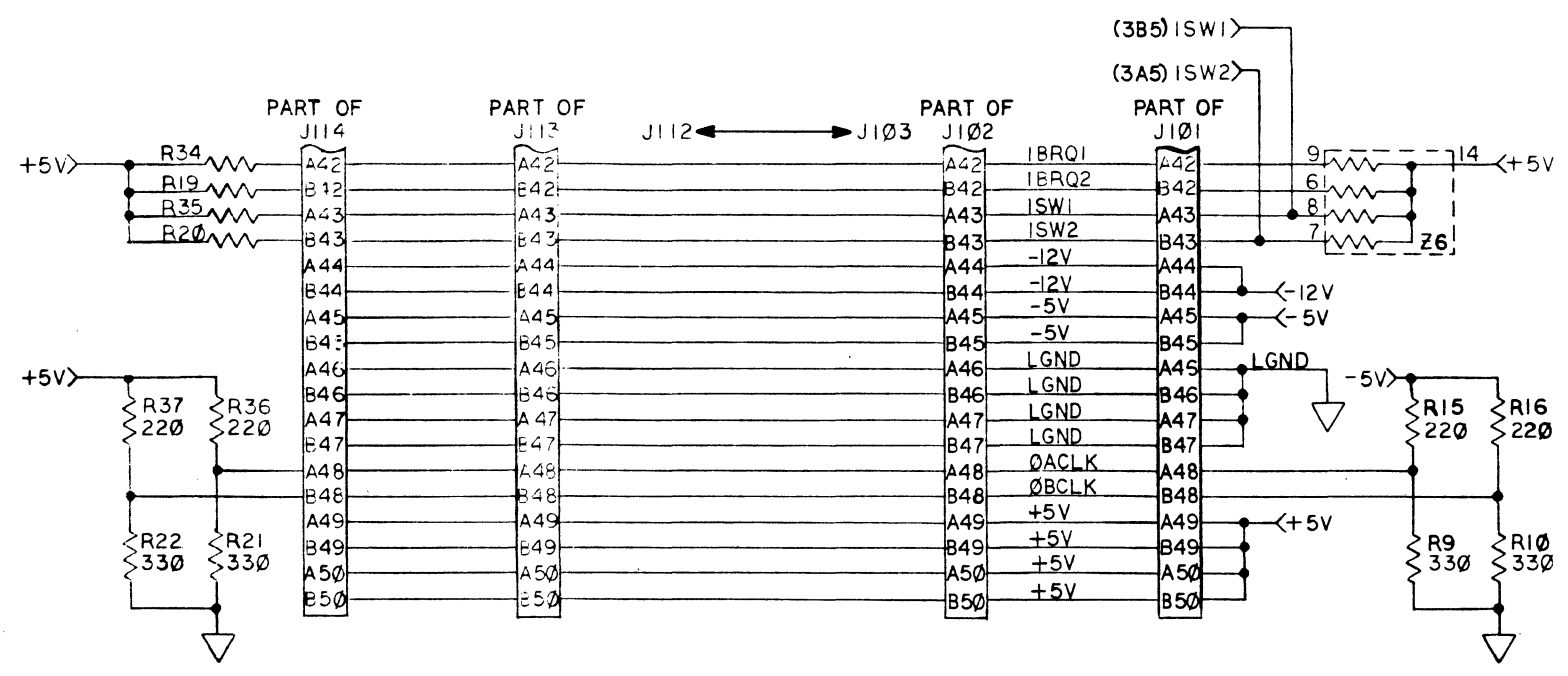
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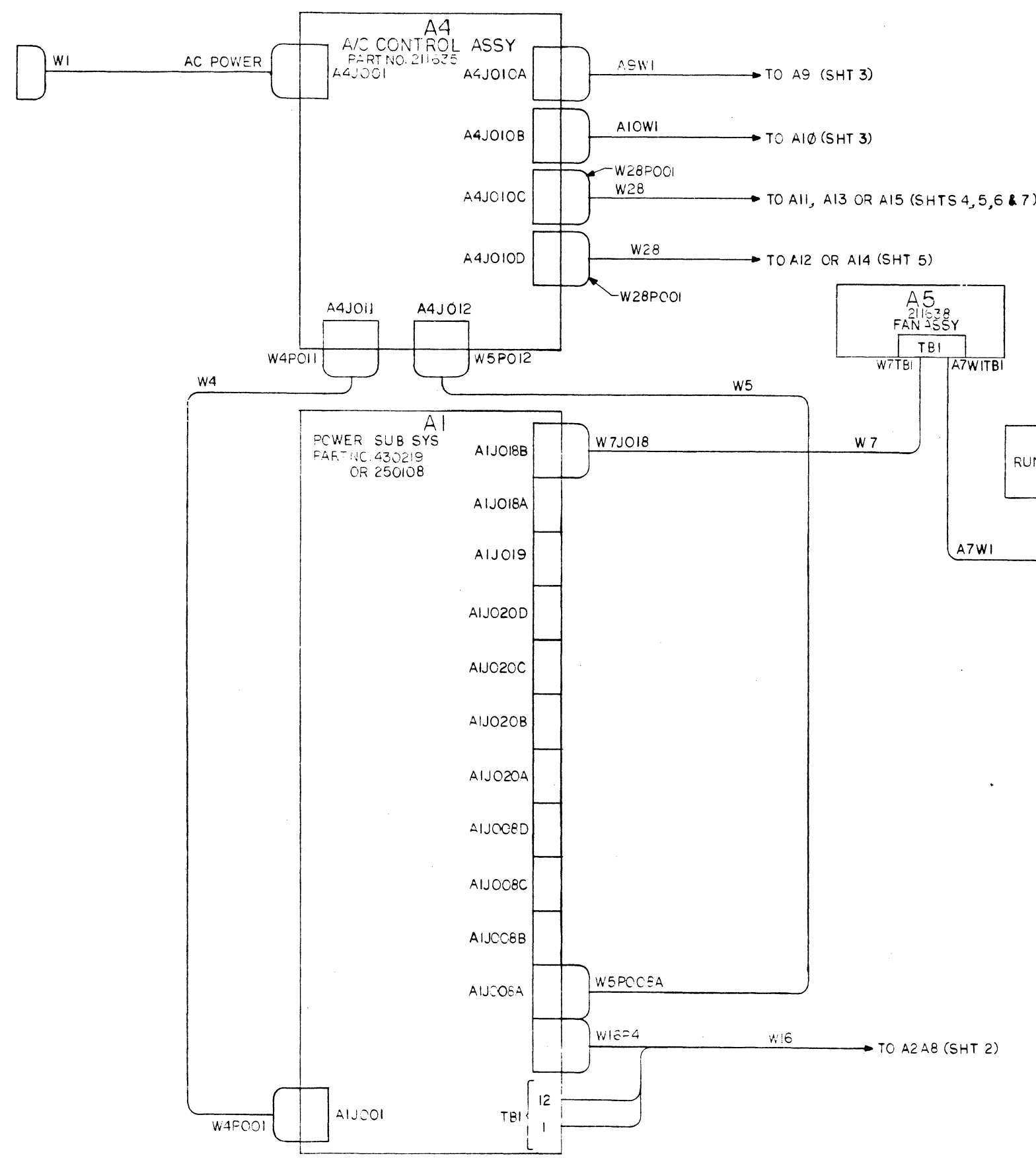
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DO NOT SCALE DWG		SHEET 2	

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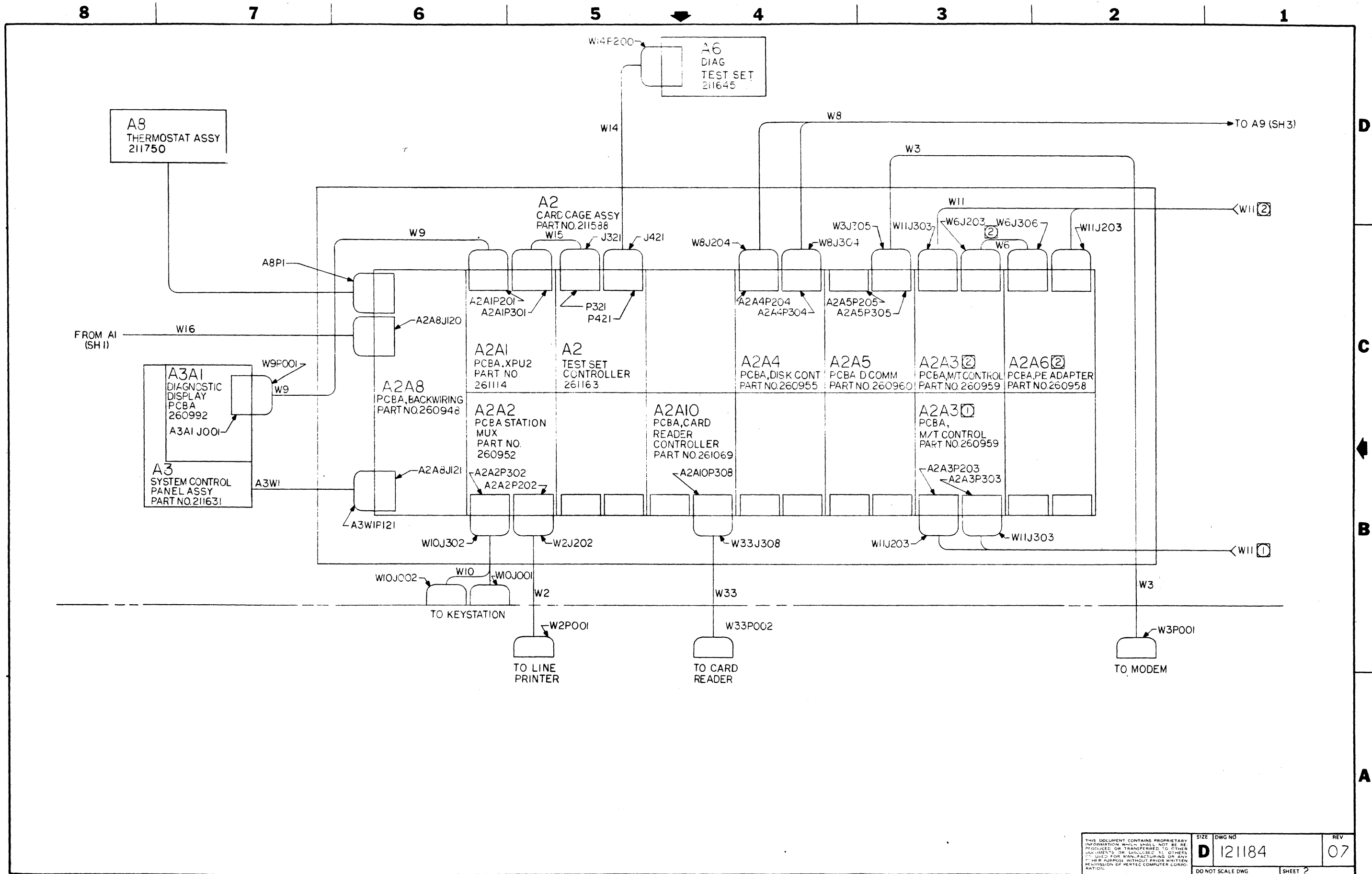
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REVISIONS				
SYM	DESCRIPTION	DRAFT	APPROVED	DATE
01	RELEASE PER DCO		CE	3/1/59
02	REV PER ENGINEERING INPUT	LW	CE	3/23/59
03	REVISE PER ENGINEERING INPUT	WJ	CE	7/20/59
04	CODE 56 REL W/ID CHANGES		CE	7/30/59
05	RELEASE PER DCO 09294	BM	CE	7/30/59
06	INCORP DCO NO. 09459	WJ	CE	11/18/59
07	INCORP PER DCO 09555	DD	CE	7/2/59
07	CODE 10 REL W/ID CHANGES PER DCO 10498	BM	CE	4/6/60

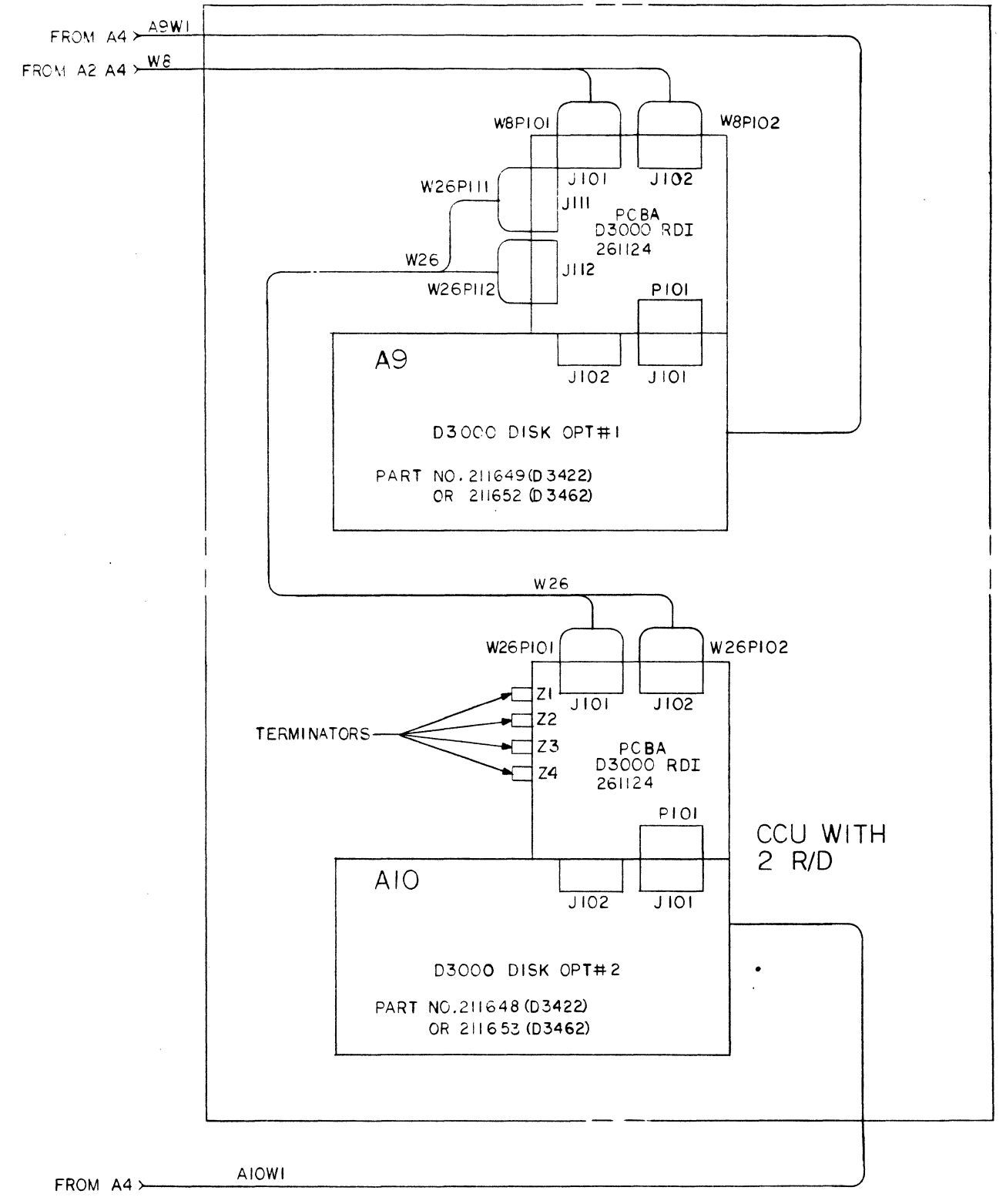
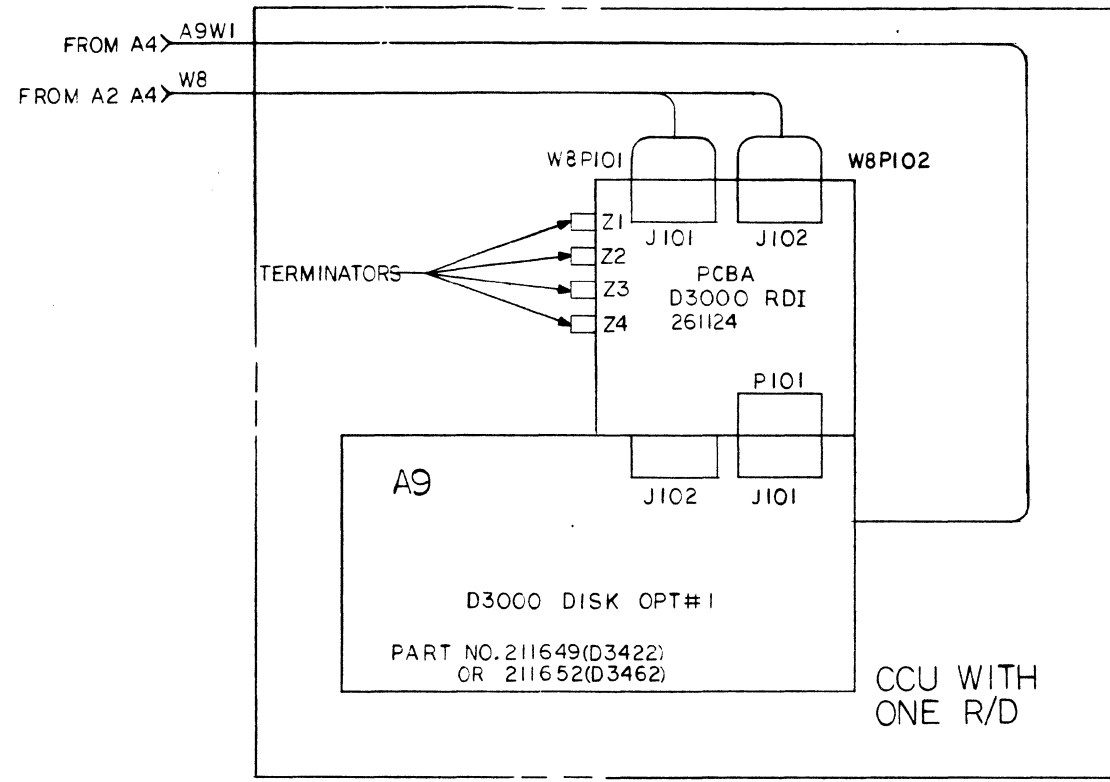
- NOTE : UNLESS OTHERWISE SPECIFIED**
- ① CABLE CONFIGURATION OF NRZI TAPE TRANSPORT.
  - ② CABLE CONFIGURATION OF PE TAPE TRANSPORT OR NRZI AND PE TAPE TRANSPORT TOGETHER.

SHEET								
REV								
REV STATUS OF SHEETS	SHEET	1	2	3	4	5	6	7
	REV	07	07	07	07	07	07	07
DRAWN	W. J. ...	BUSINESS SYSTEMS						
CHECK	...	TITLE						
APPR	...	CABLE DIAGRAM, BCS						
RELEASE	...	CODE IDENT. NO.		SIZE	DWG NO.	REV		
		10		D	121184	07		
APPLICATION		SCALE		DO NOT SCALE DWG		SHEET 1 OF 7		



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DO NOT SCALE DWG		SHEET 2	

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	D	121184	07
DO NOT SCALE DWG		SHEET 3	

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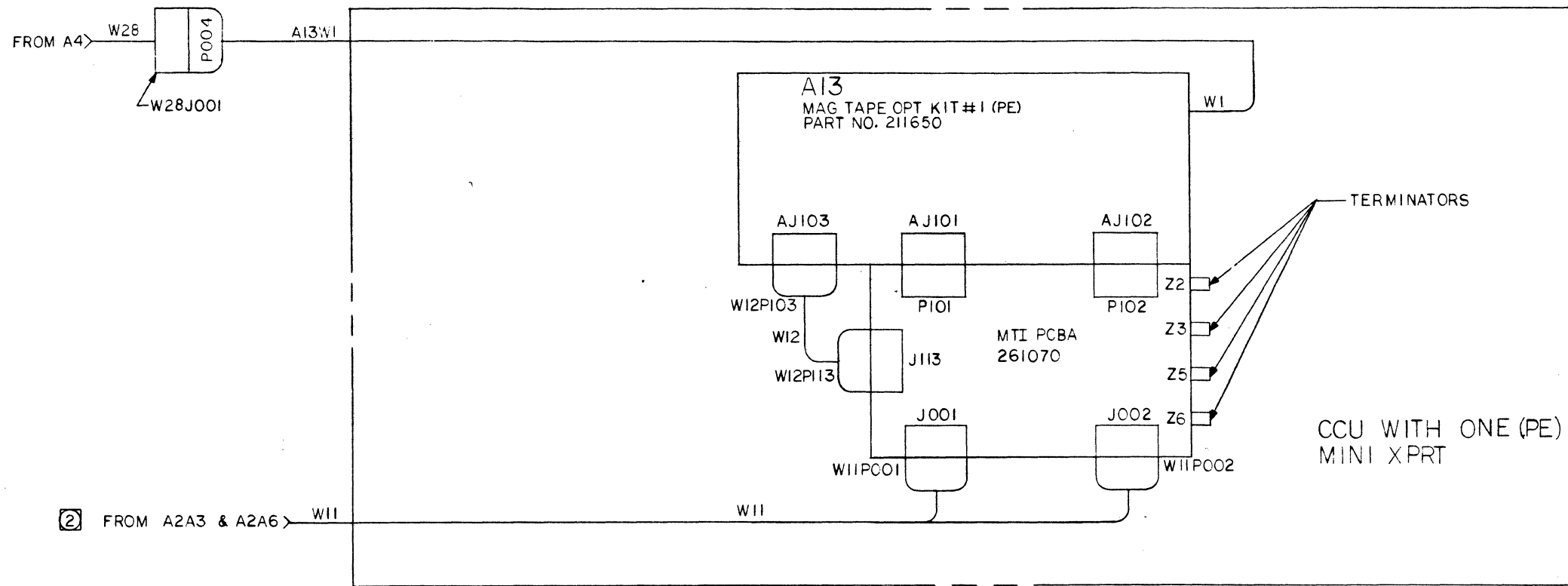
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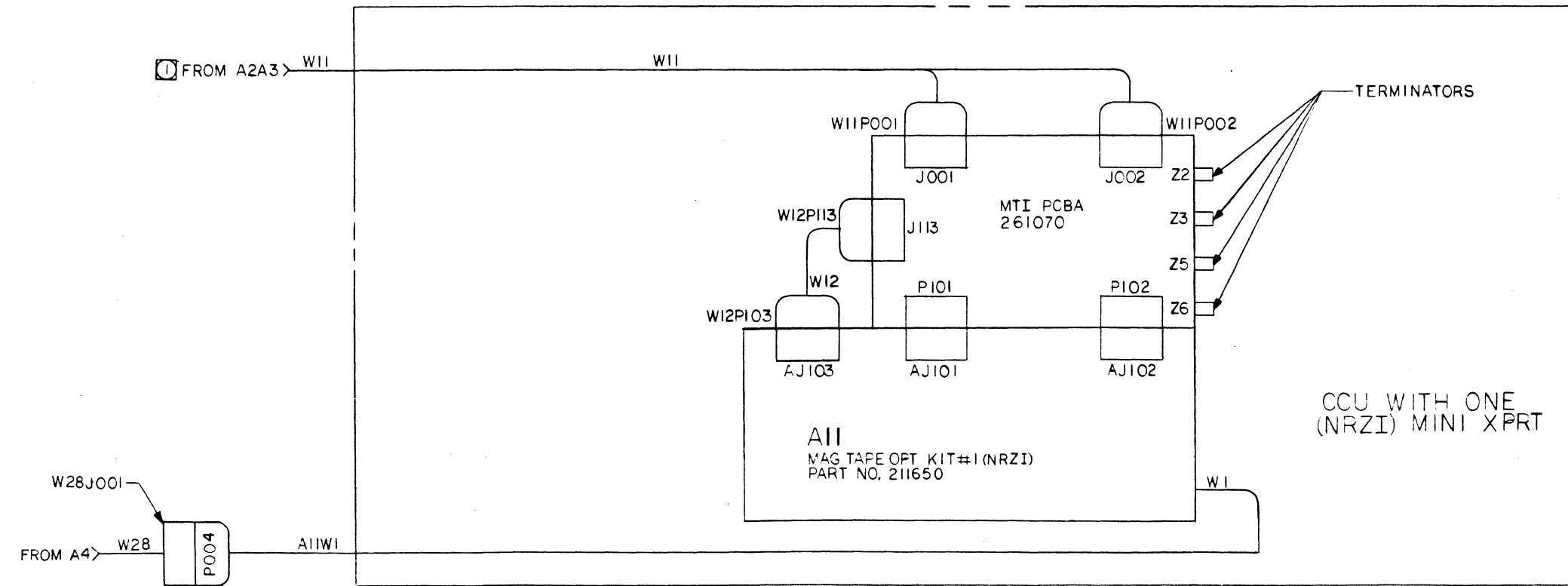
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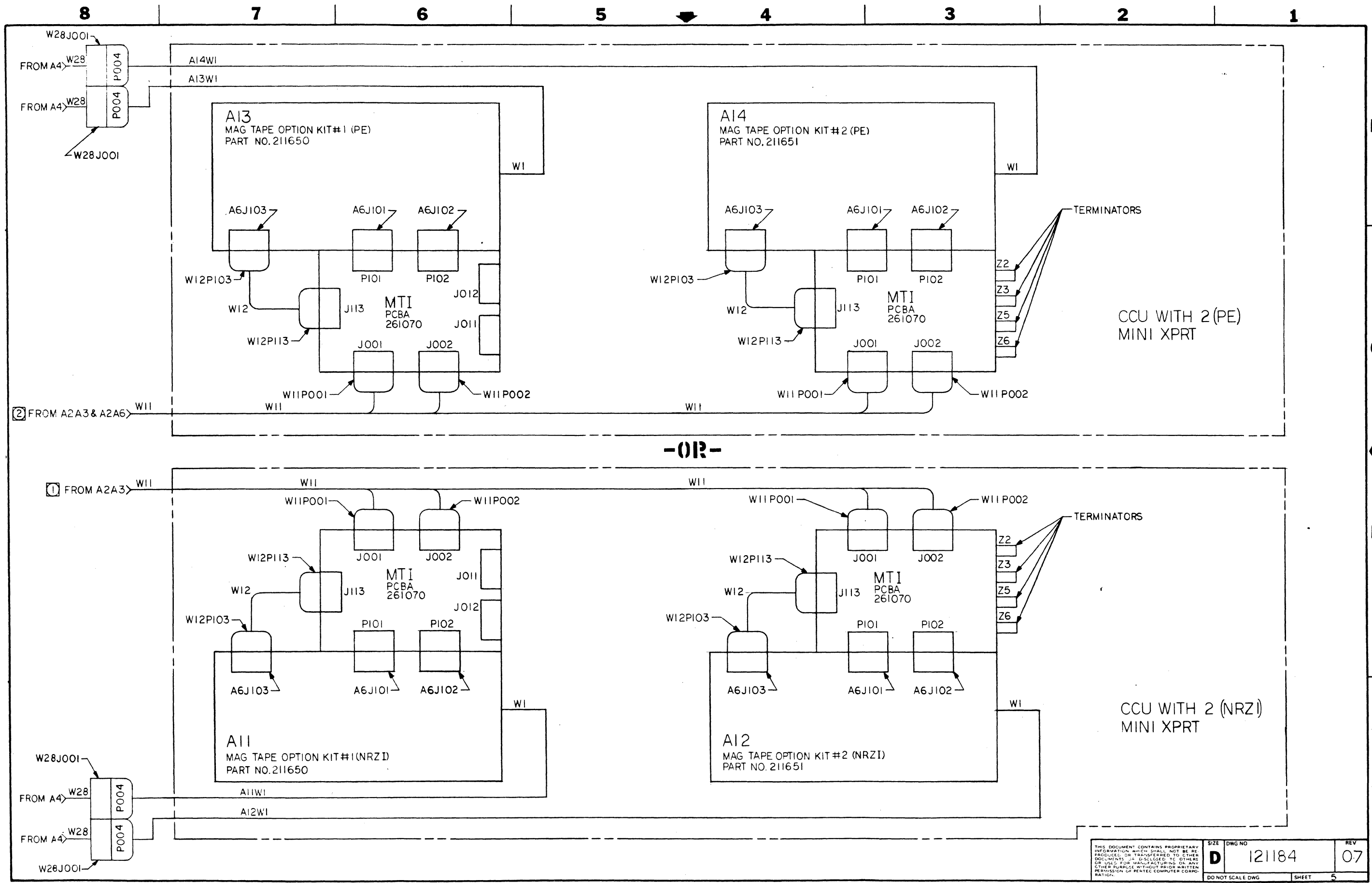


-OR-



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	D	121184	07
DO NOT SCALE DWG		SHEET 4	

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	D	121184	07
DO NOT SCALE DWG		SHEET	5

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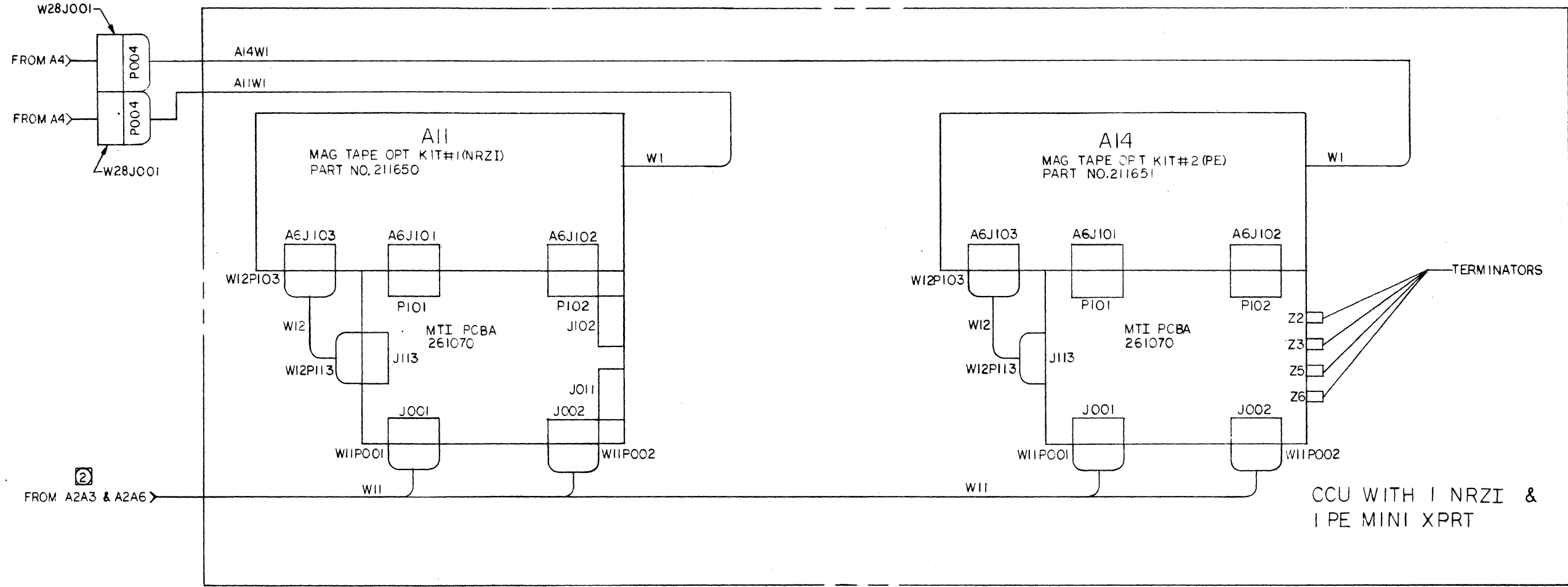
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	D	121184	07
DO NOT SCALE DWG		SHEET	6



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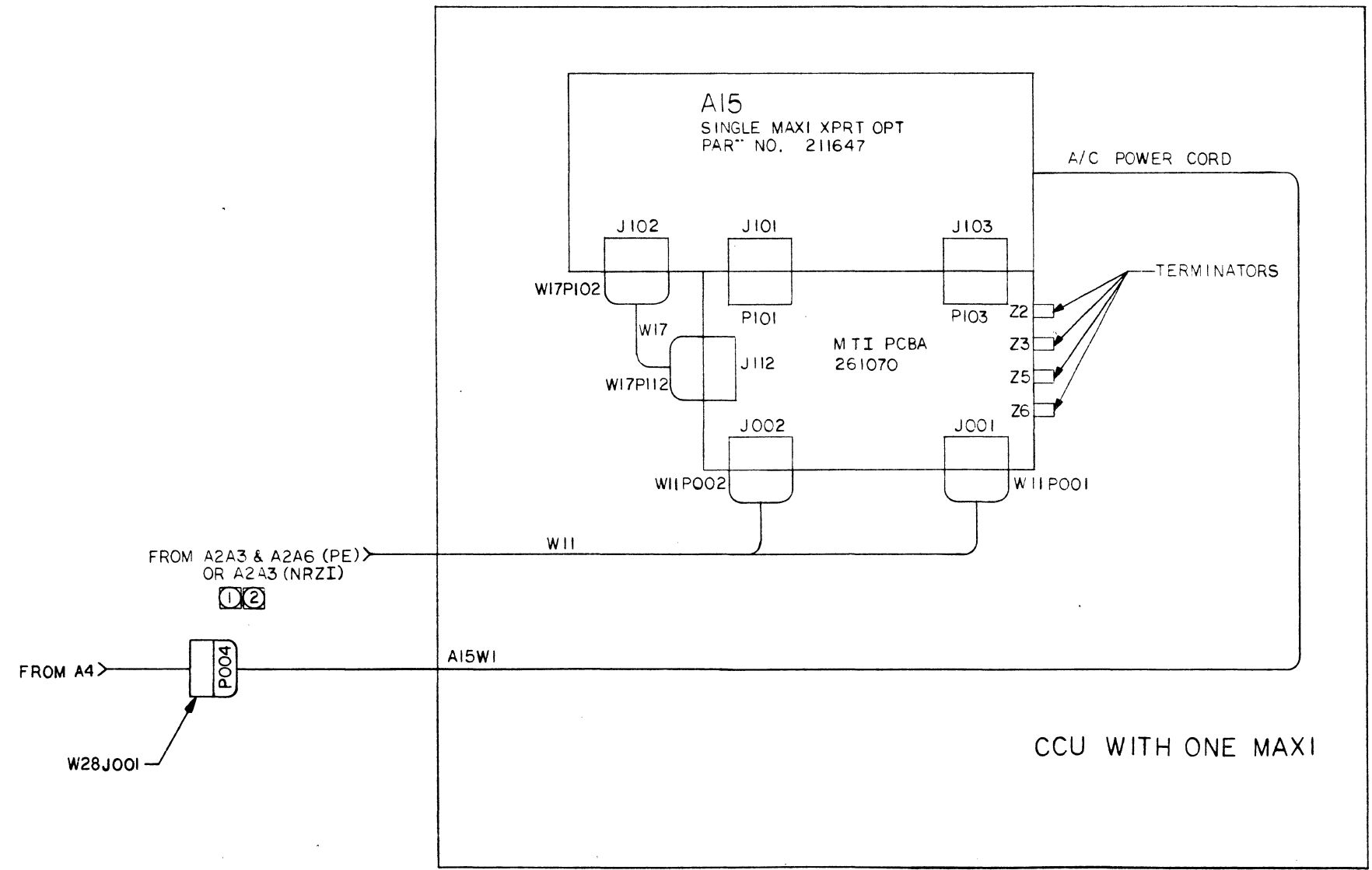
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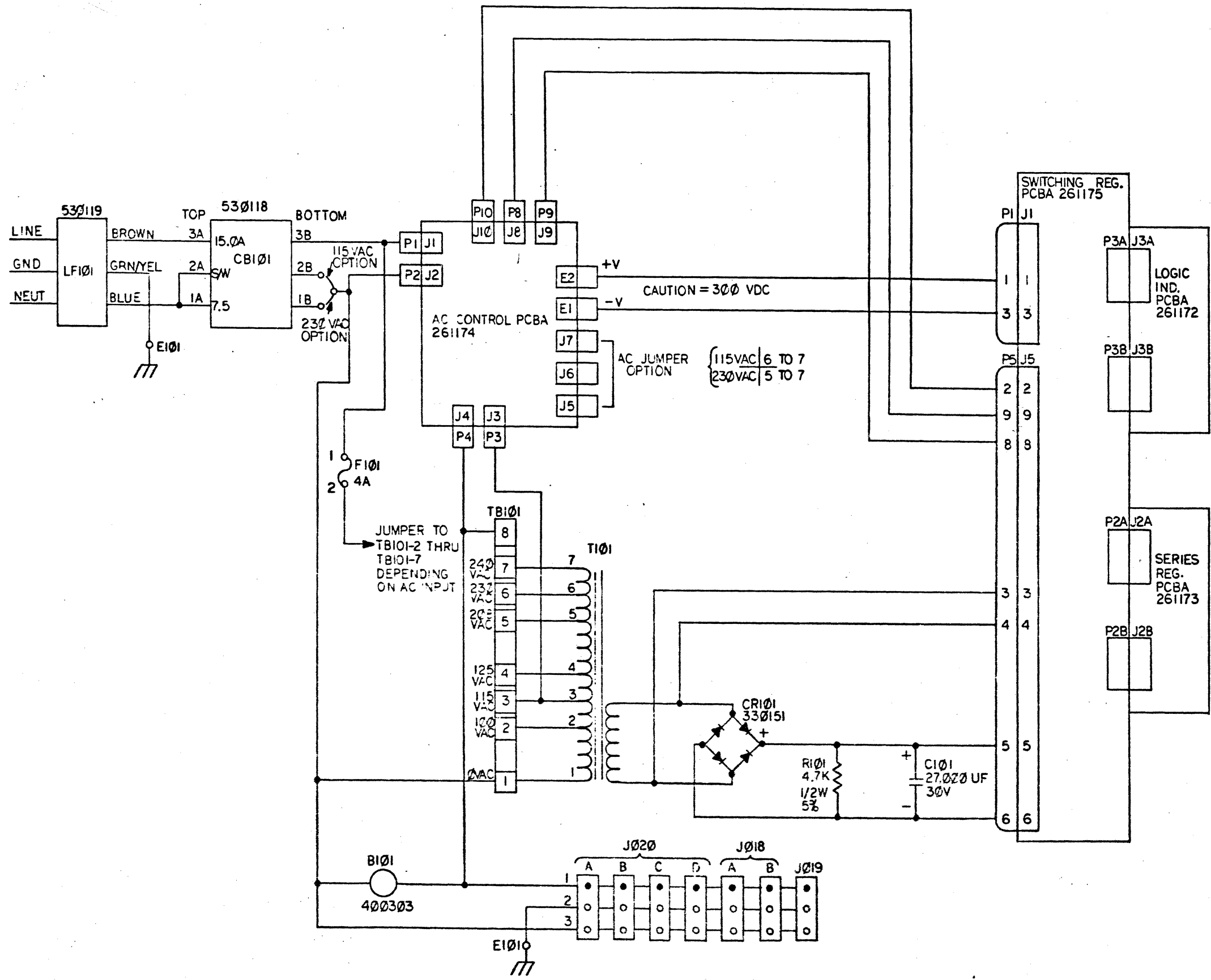
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	D	121184	07
DO NOT SCALE DWG		SHEET 7	

SYM	DESCRIPTION	REVISION	DRFTG	APPROVED	DATE
01	RELEASE PER DRO	206-77		EB	7/13/69
02	IN CORP DCO 10969		MV	EB	7/14/69
03	CODE ID REL W/O CHANGE PER DCO 10894		MV	EB	7/14/69

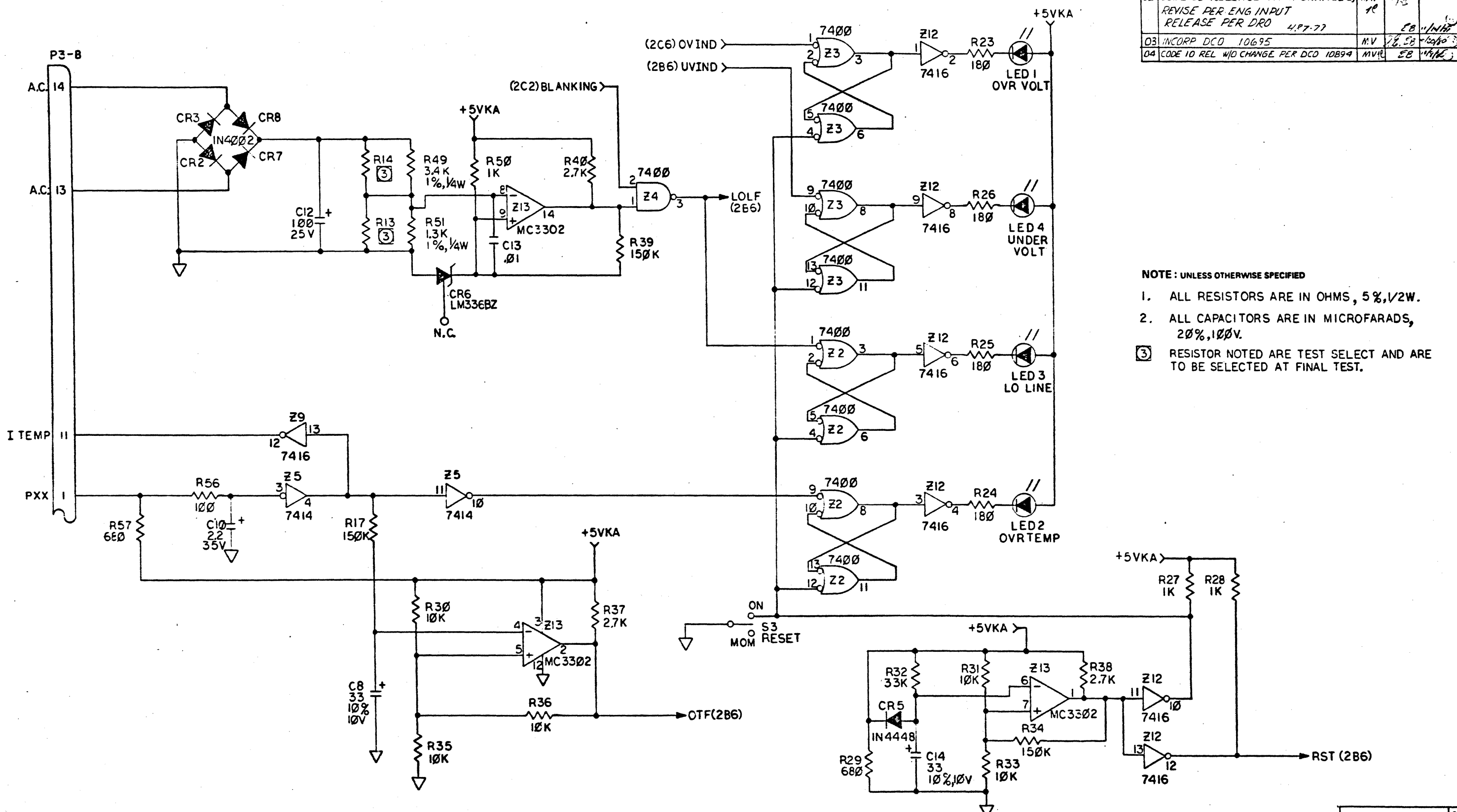


NOTE: UNLESS OTHERWISE SPECIFIED

DISTRIBUTION CLASS B

DRAWN	VEGA	4-27-69	<b>PERTEC BUSINESS SYSTEMS</b> TITLE: SCHEMATIC, POWER SUPPLY CODE IDENT. NO. 211659 SIZE XL20 DWG NO. 121190 DC CODE 10 REV 03 SCALE — DO NOT SCALE DWG SHEET 1 OF 1		
CHECK					
APPR					
RELEASE					
THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR TRANSFERRED TO OTHER DOCUMENTS OR DISCLOSED TO OTHERS OR USED FOR MANUFACTURING OR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN PERMISSION OF PERTEC BUSINESS SYSTEMS					

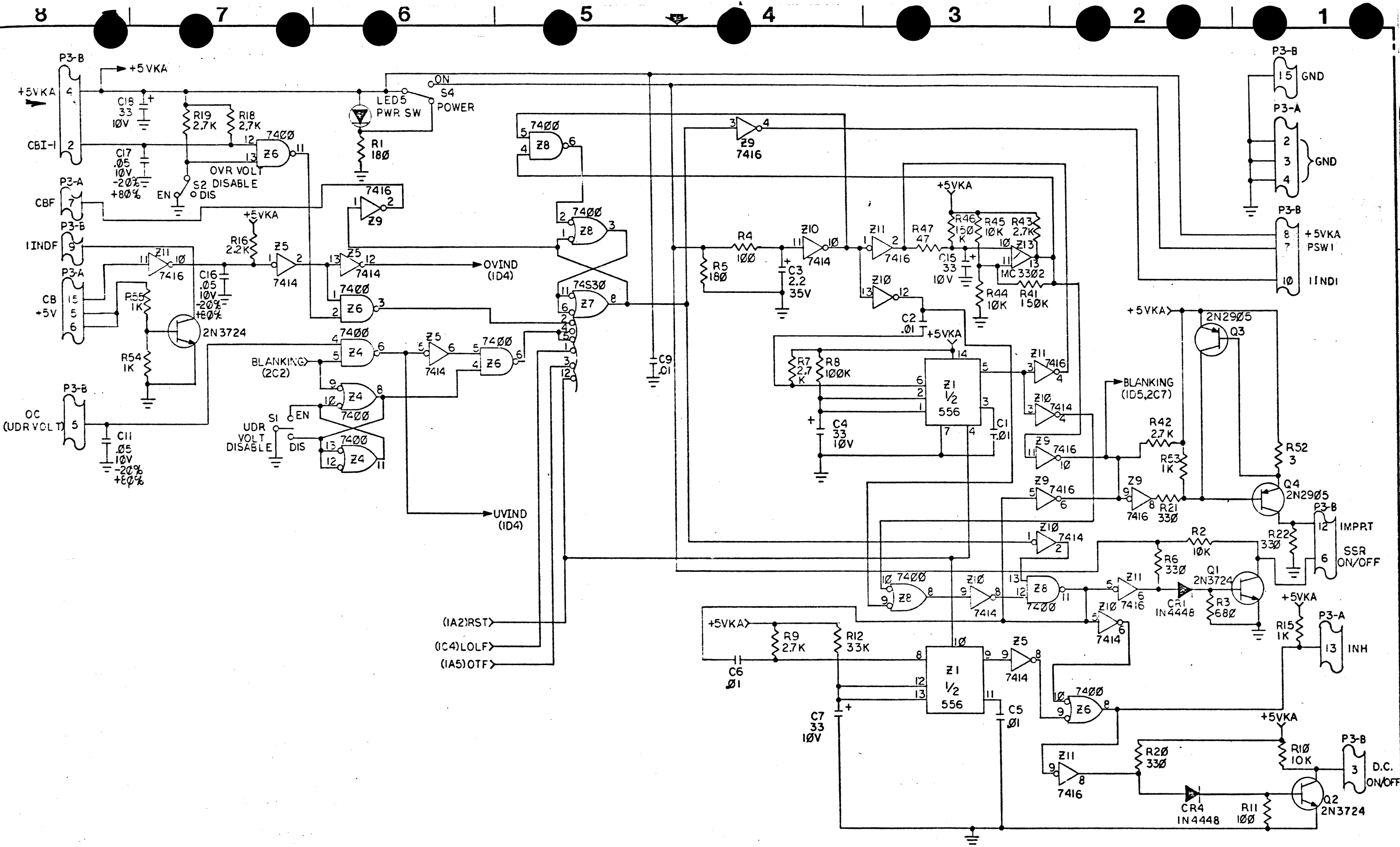
REVISION		DRFTG	APPROV
01	RELEASE PER DRO 3.2-77	TA	EB 1/1/77
02	CODE 05 RELEASE WITH CHANGES, REVISE PER ENG INPUT RELEASE PER DRO 4.27-77	TA	EB 1/1/77
03	INCCORP DCO 10695	M.V	EB 1/1/77
04	CODE 10 REL W/D CHANGE PER DCO 10894	M.V	EB 1/1/77



- NOTE: UNLESS OTHERWISE SPECIFIED
1. ALL RESISTORS ARE IN OHMS, 5%, 1/2W.
  2. ALL CAPACITORS ARE IN MICROFARADS, 20%, 100V.
  3. RESISTOR NOTED ARE TEST SELECT AND ARE TO BE SELECTED AT FINAL TEST.

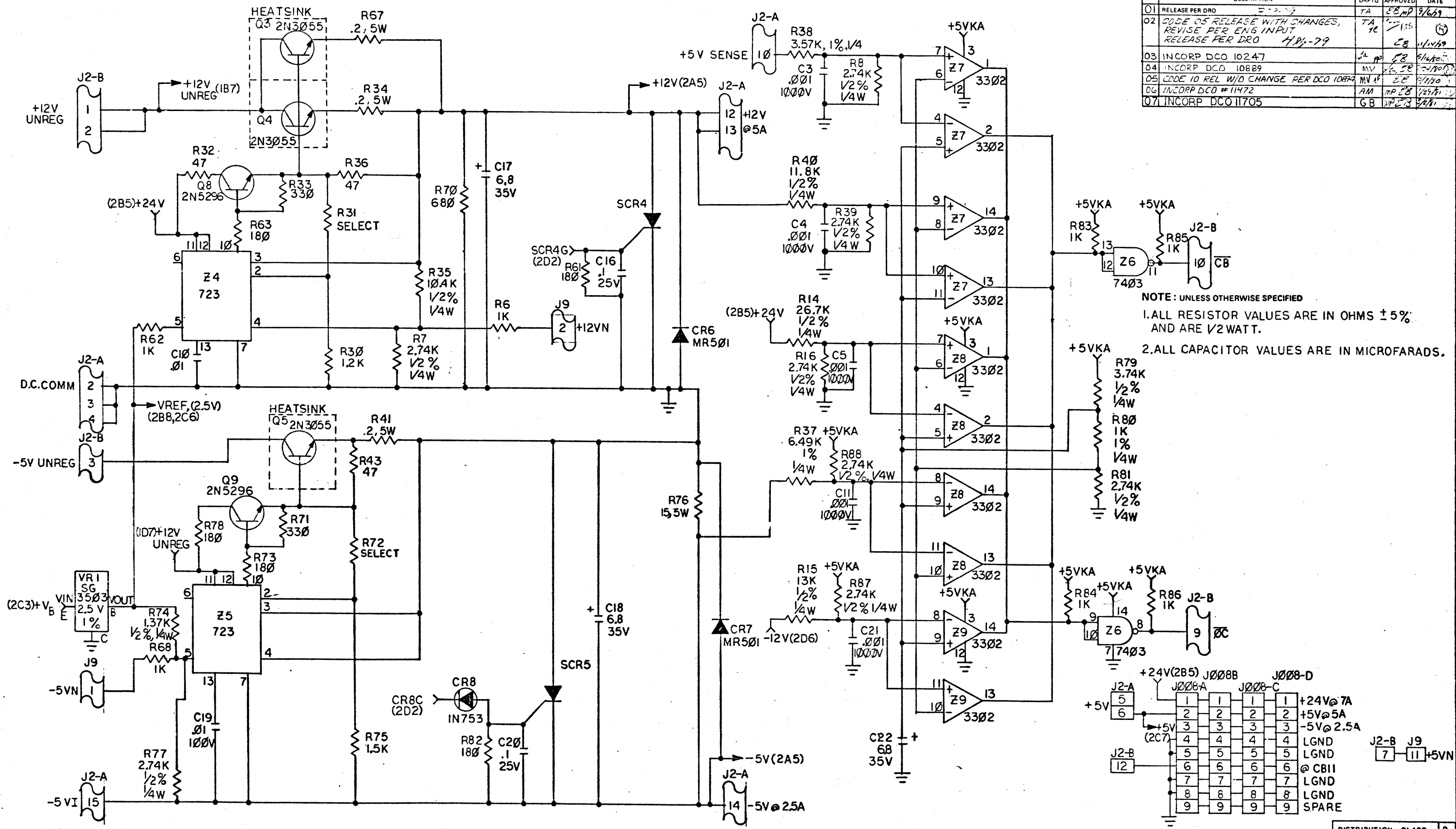
DISTRIBUTION CLASS B

DRAWN	TACOSTA	5-4-79	PERTEC BUSINESS SYSTEMS	
CHECK	mt	9-4-79	TITLE	
APPR	...	1-6-77	SCHEMATIC - LOGIC INDICATOR	
RELEASE	...	1/1/77	CODE IDENT NO.	SIZE DWG NO.
			DC CODE	D 121191
			REV	04
			SCALE	DO NOT SCALE DWG
			SHEET	OF 2

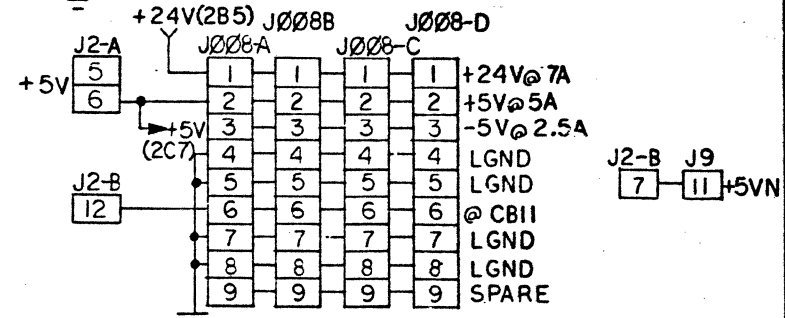


DRAWN	TACGSTA	E-4-78	BUSINESS SYSTEMS		
CHECK			TITLE SCHEMATIC - LOGIC INDICATOR		
APPR			CODE IDENT. NO.	SIZE	DWG NO.
RELEASE			DC CODE	D	121191
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APPLICATION			SCALE	DO NOT SCALE DWG	
NEXT ASSY QTY MODEL DTY			SHEET 2 OF		

REVISIONS				
SYM	DESCRIPTION	DRFTG	APPROVED	DATE
01	RELEASE PER DRO	TA	EB	9/6/79
02	CODE 05 RELEASE WITH CHANGES, REVISE PER ENG INPUT RELEASE PER DRO	TA	EB	11/14/79
03	INCRP DCO 10247	JA	EB	9/14/80
04	INCRP DCO 10689	MV	EB	11/15/80
05	CODE 10 REL W/O CHANGE PER DCO 10899	MV	EB	11/15/80
06	INCRP DCO #11472	AM	EB	12/1/81
07	INCRP DCO 11705	GB	EB	1/23/82



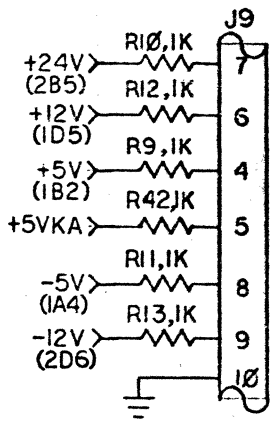
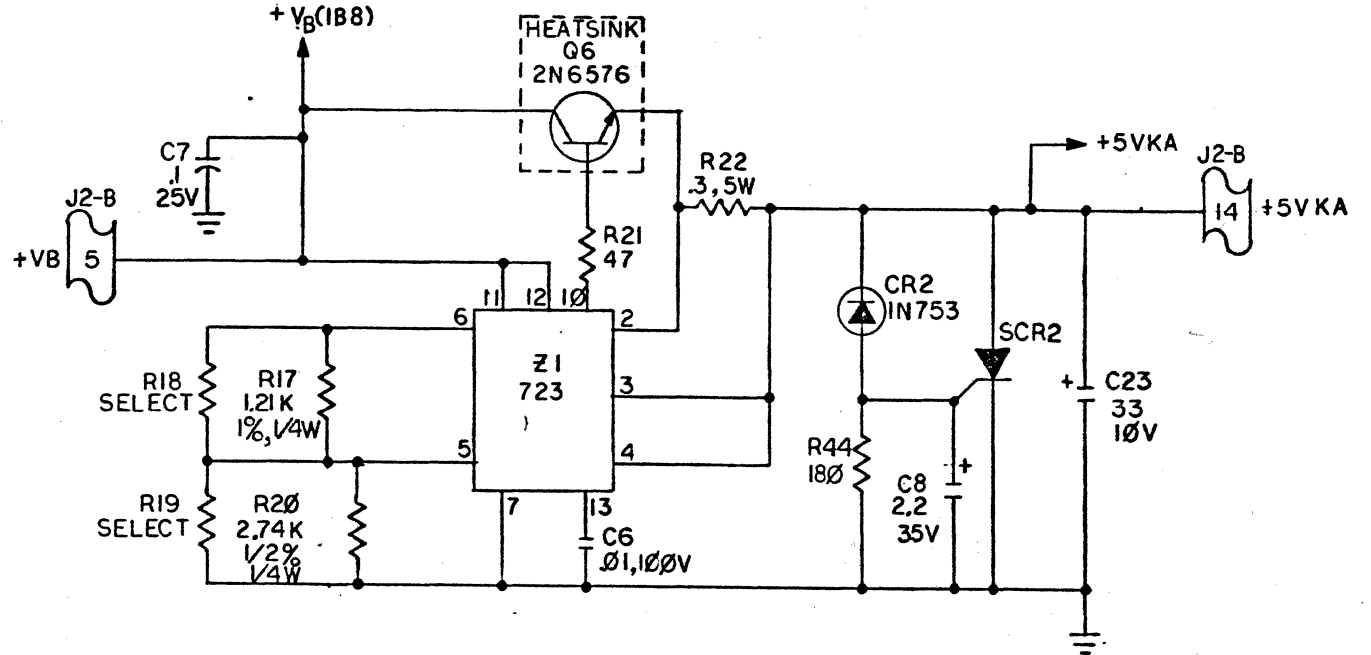
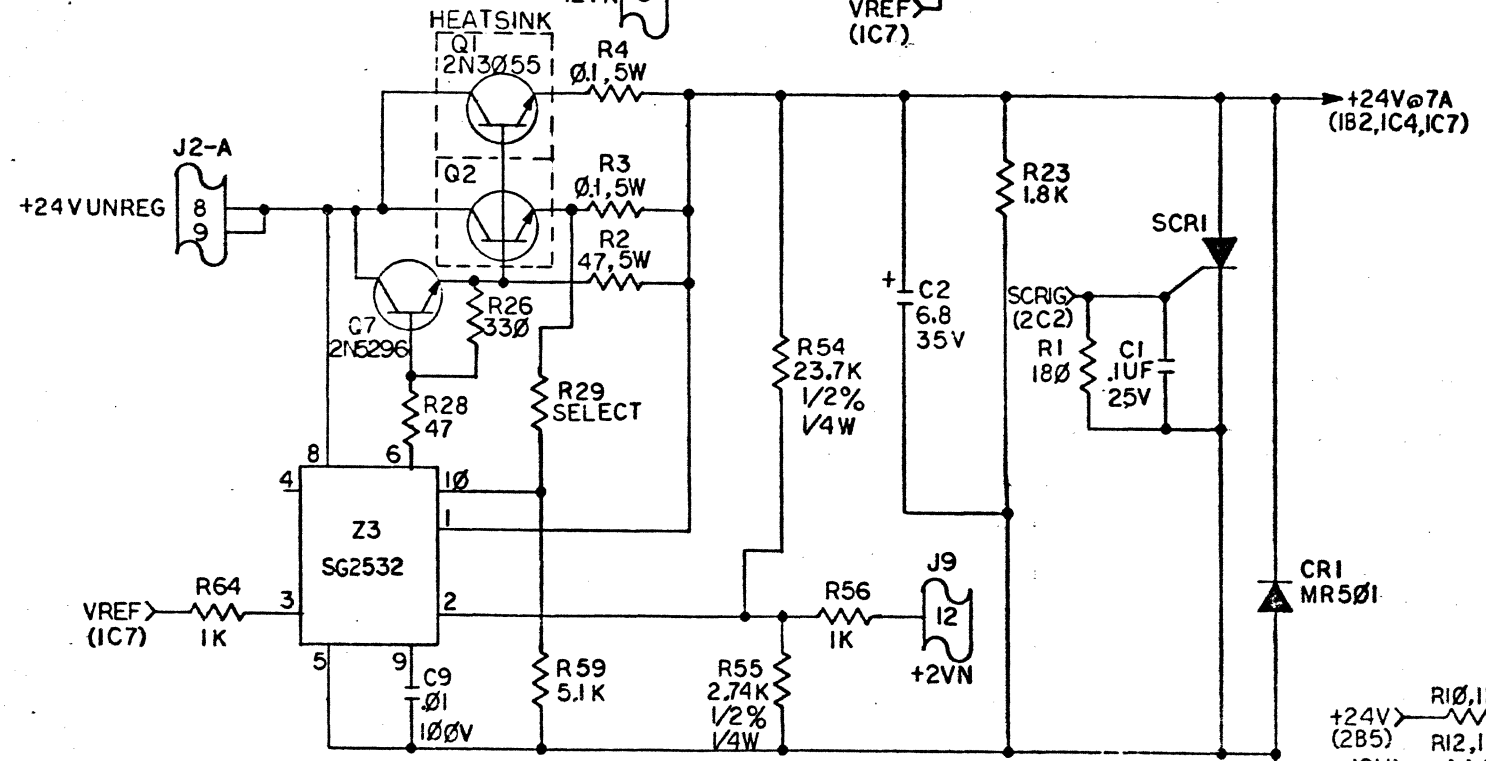
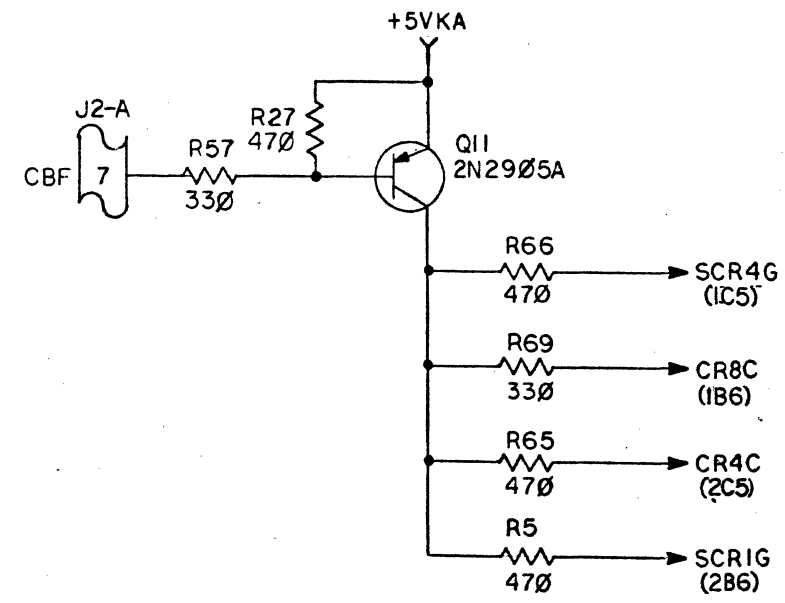
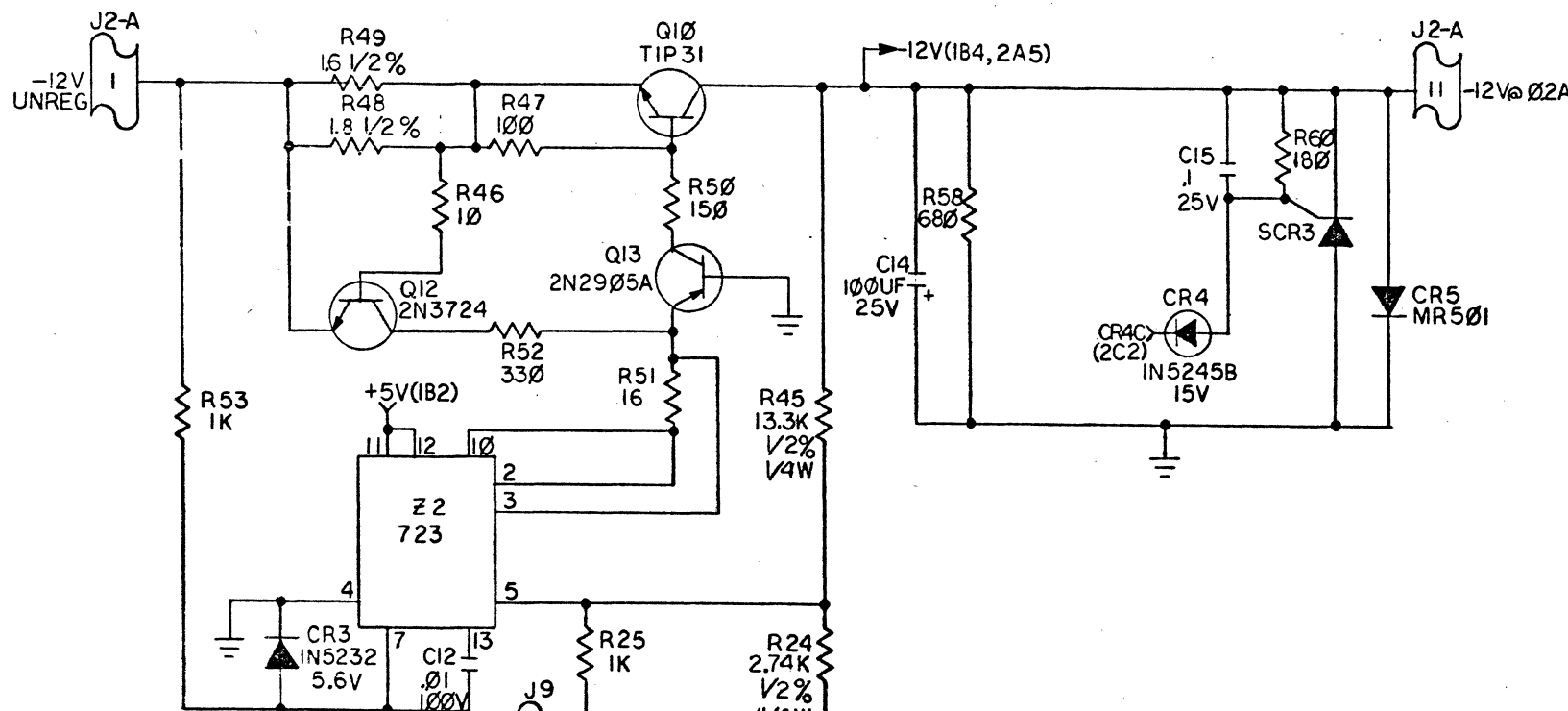
NOTE: UNLESS OTHERWISE SPECIFIED  
 1. ALL RESISTOR VALUES ARE IN OHMS ± 5% AND ARE 1/2 WATT.  
 2. ALL CAPACITOR VALUES ARE IN MICROFARADS.



DRAWN	T. ACOSTA	5-16-79	BUSINESS SYSTEMS	
CHECK	[Signature]	8-31-79	TITLE SCHEMATIC SERIES REGULATOR	
APPR	[Signature]	9-5-79	CODE IDENT. NO.	SIZE DWG NO.
RELEASE	[Signature]	9/6/79	DC CODE	D
NTP			121192	REV 07

TEXT ASSY	QTY	MODEL	QTY
261173	-	NTP	-

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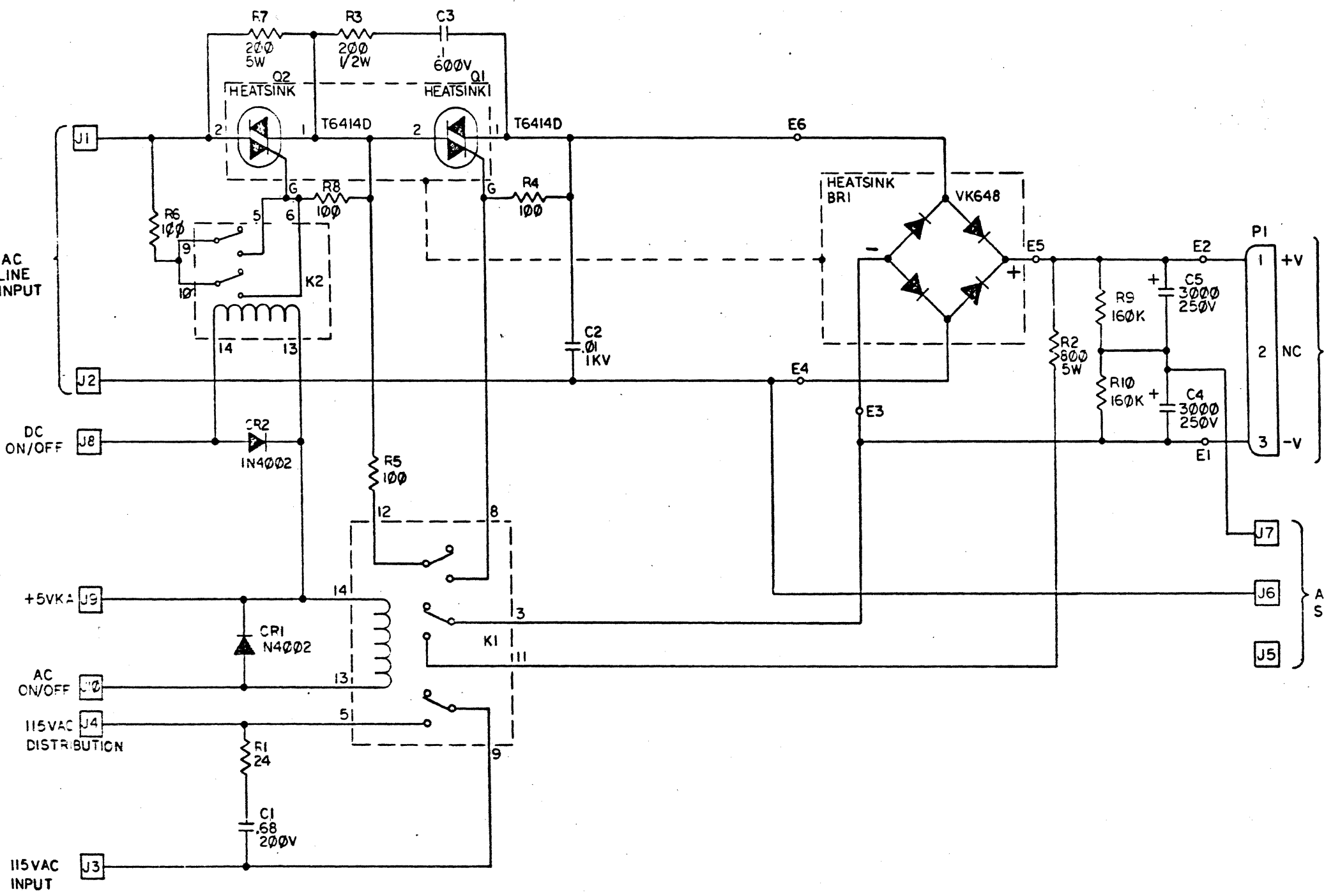
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REVISIONS			
NO.	DESCRIPTION	DRFTG	APPROVED DATE
01	RELEASE PER DRO 212-79	TC	MP:EB 1/1/80
02	REVISED PER ENGRG INPUT	PP	1/2/80
03	CODE DS REL W/O CHANGE PER DRO 5A-77	MV	1/2/80
04	INCORP PER DCO 11074	TC	MP:EB 1/1/80
05	INCORP DCO 11193	TC	EB 1/2/80
06	CODE ID REL W/O CHANGE PER DCO 10894	MV	EB 1/1/80



TO AIJI SWITCHING REGULATOR PCBA  
CAUTION: 300VDC

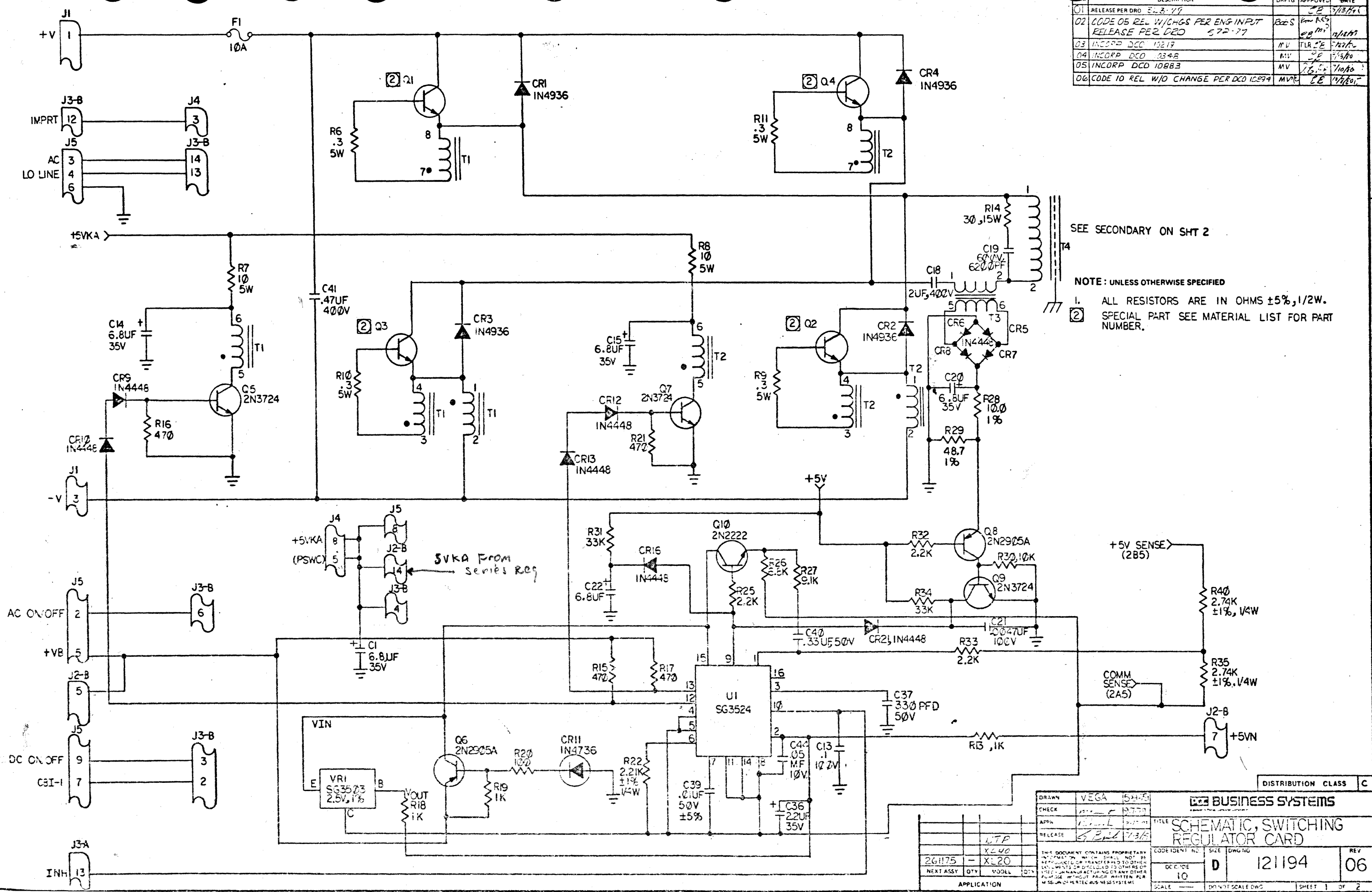
- NOTE: UNLESS OTHERWISE SPECIFIED
1. ALL RESISTOR VALUES ARE IN OHMS, 1/2W, 5%.
  2. ALL CAPACITOR VALUES ARE IN MICROFARADS.
  3. CONNECT J6 TO J7 FOR 85VAC TO 138VAC; CONNECT J6 TO J5 FOR 176VAC TO 265VAC.

AC LINE VOLTAGE SELECTION TERMINALS 3

DISTRIBUTION CLASS B

DRAWN	TCLARK	52-79	BUSINESS SYSTEMS		
CHECK	Mr. Smith	8-30-79	SCHEM, A.C. CONTROL		
APPR	AS Smith	1-6-77	CODE IDENT. NO.	SIZE	DWG NO.
RELEASE	G. S. G.	1/1/80	10	D	121193
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261174	-	XL20	SCALE	DO NOT SCALE DWG	SHEET OF

REVISIONS		DRFTG	APPROVED	DATE
01	RELEASE PER DRO 2-3-77		CE	7/13/80
02	CODE 05 REL W/CHGS PER ENG INPUT RELEASE PER DCO 572-77	BOS	RM RS	11/11/77
03	INCRP DCO 10219	MV	TLR	7/22/78
04	INCRP DCO 10348	MV	TLR	7/13/80
05	INCRP DCO 10883	MV	TLR	10/10/80
06	CODE 10 REL W/D CHANGE PER DCO 10294	MV	CE	1/14/81



SEE SECONDARY ON SHT 2

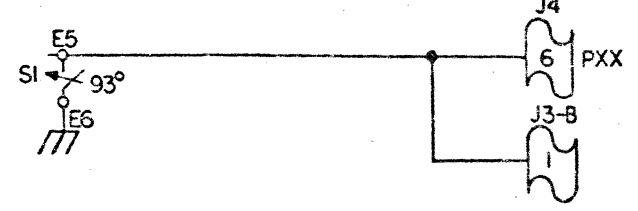
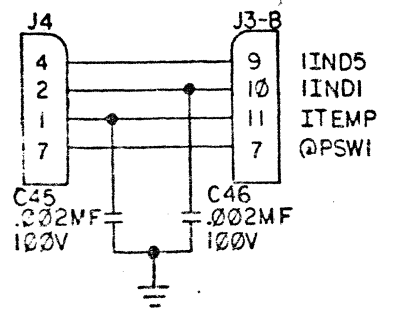
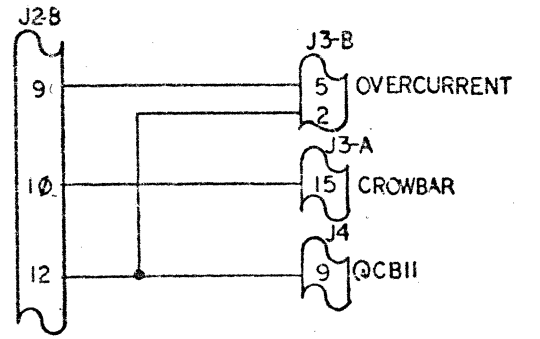
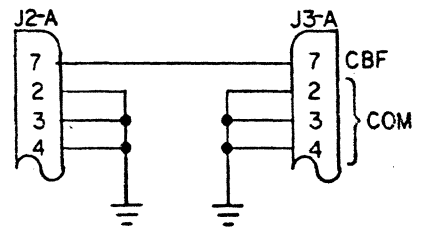
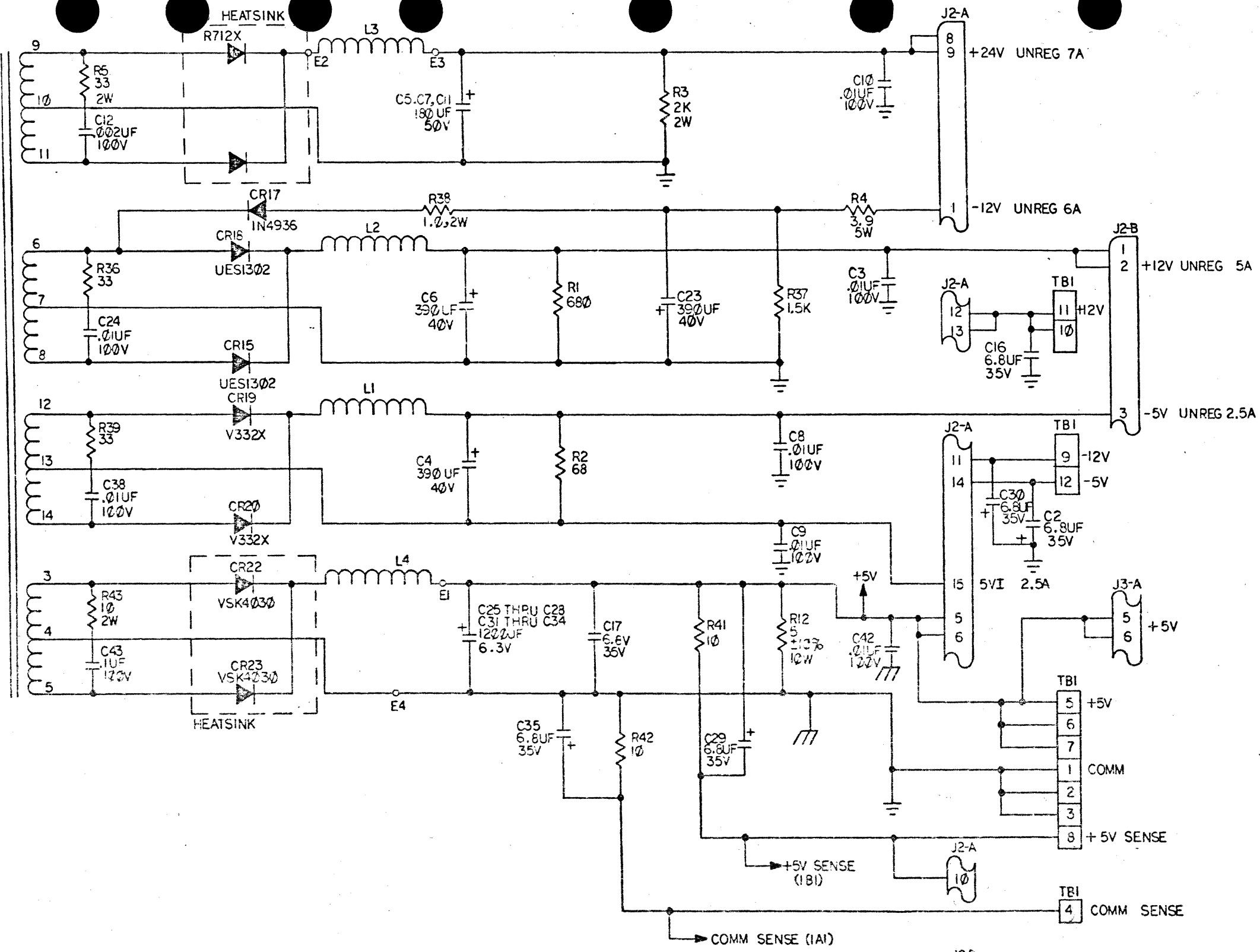
- NOTE: UNLESS OTHERWISE SPECIFIED
- 1. ALL RESISTORS ARE IN OHMS ±5%, 1/2W.
  - 2. SPECIAL PART SEE MATERIAL LIST FOR PART NUMBER.

DRAWN		VEGA	154-73	DISTRIBUTION CLASS		C
CHECK		154-73	154-73	BUSINESS SYSTEMS		
APPN		154-73	154-73	TITLE		
RELEASE		6/21/78	7/13/80	SCHEMATIC, SWITCHING REGULATOR CARD		
LTP		XL40		CODE IDENT NO		SIZE
261175		-	XL20	D		DWG NO
NEXT ASSY		QTY	MODEL	10		REV
APPLICATION				121194		06
				SCALE		SHEET 1 OF 2



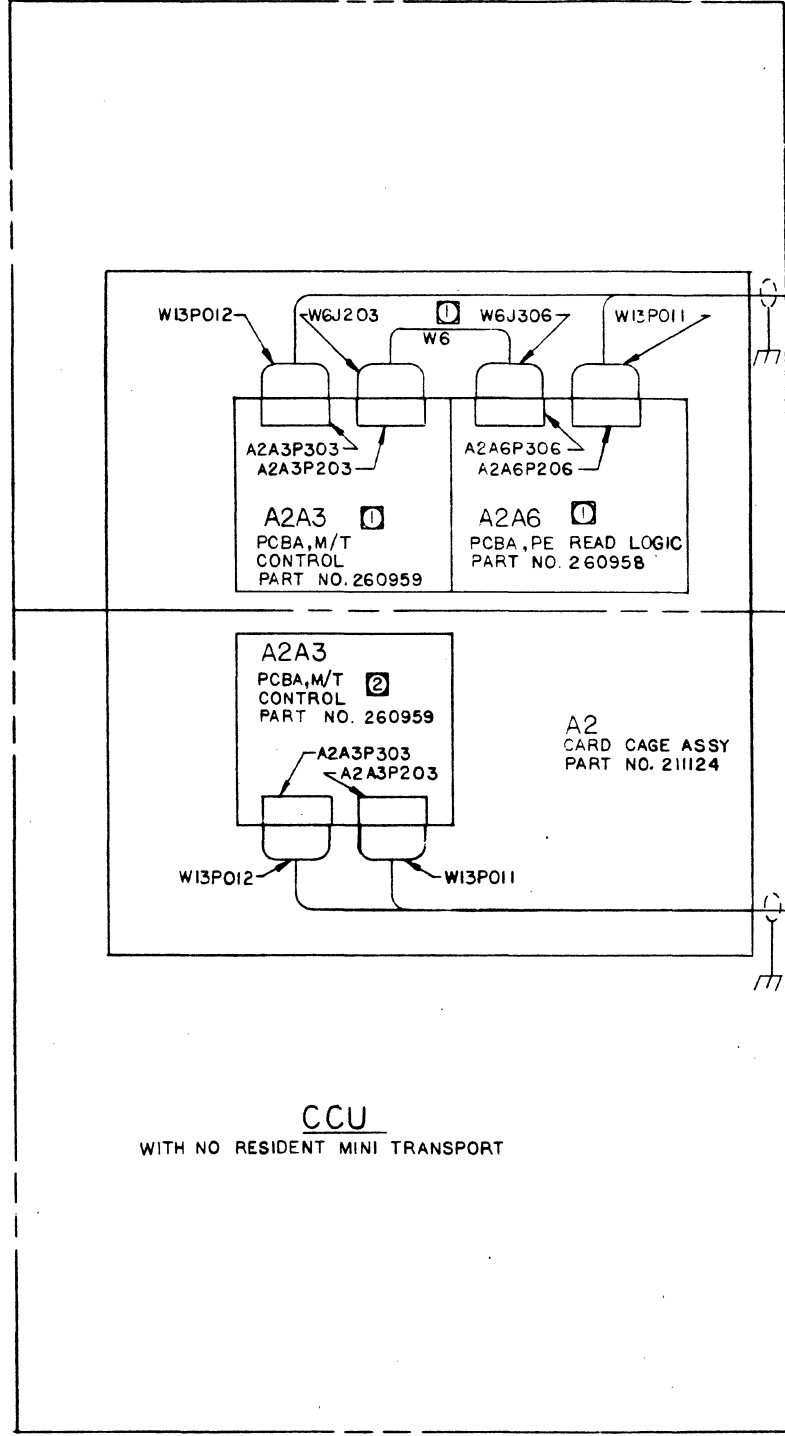
SEE PRIMARY ON SHT 1

T4



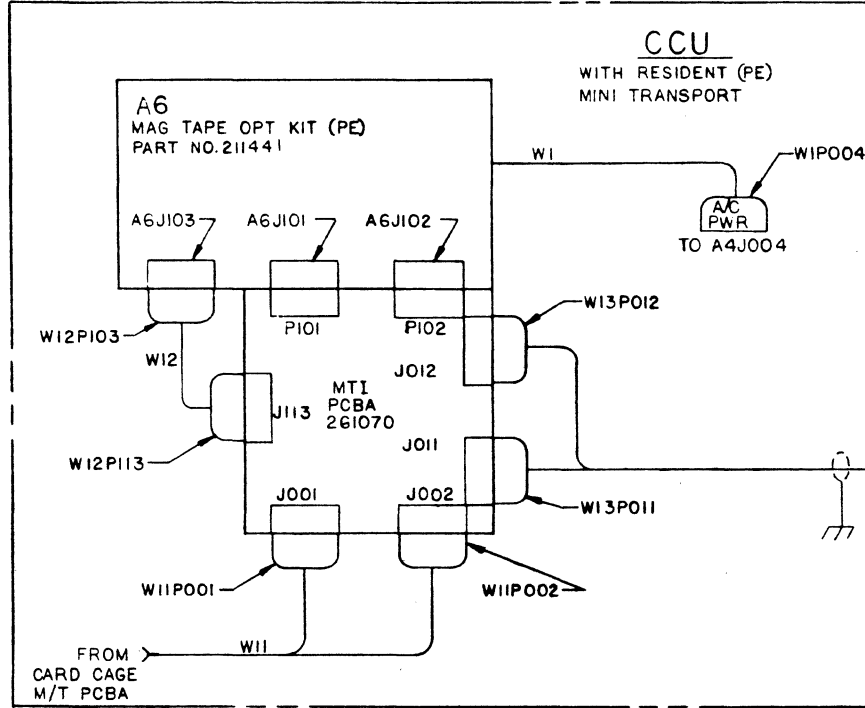
8 7 6 5 4 3 2 1

REVISIONS				
SYM	DESCRIPTION	DRFTG	APPROVED	DATE
01	RELEASE PER DRD		EB	4/21/79
02	CODE D RELEASE W/O CHANGE PER 2010485		EB	4/19/80

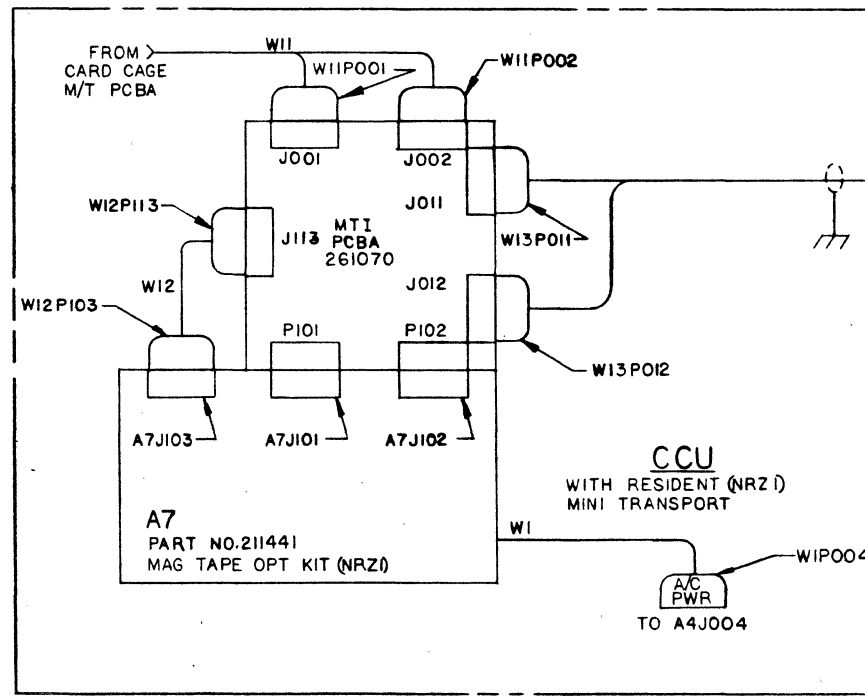


W13 TO TAPE/DISK CABINET SEE SHEETS 4,5,6&7

W13 TO TAPE/DISK CABINET SEE SHEETS 4,5,6&7



W13 TO TAPE DISK CABINET SEE SHEETS 4,5,6&7

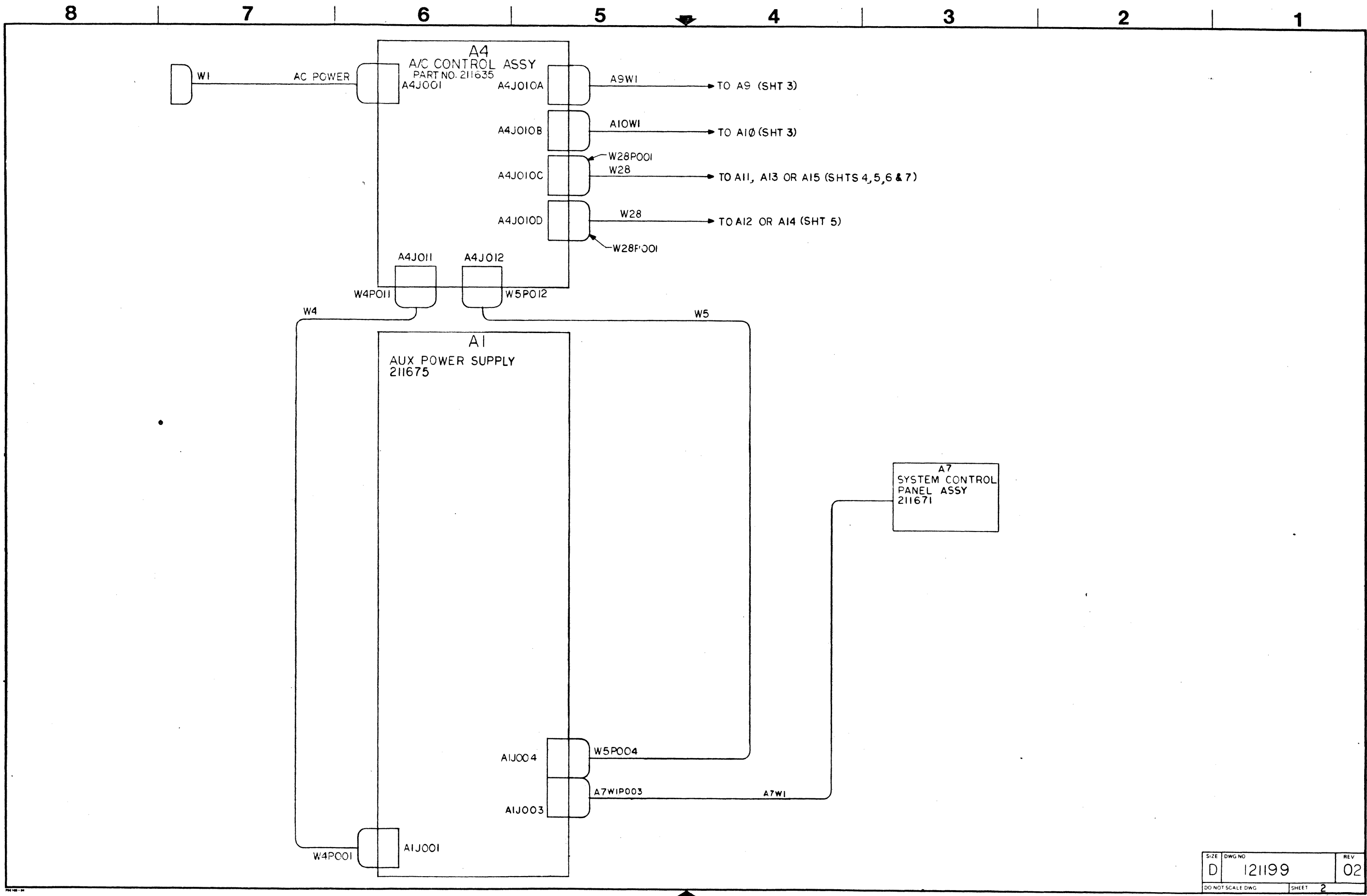


W13 TO TAPE DISK CABINET SEE SHEETS 4,5,6&7

NOTE: UNLESS OTHERWISE SPECIFIED  
 1 CABLE CONFIGURATION OF PE TAPE TRANSPORT.  
 2 CABLE CONFIGURATION OF NRZI TAPE TRANSPORT.

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REV STATUS OF SHEETS	SHEET	1	2	3	4	5	6	7		
	REV	02	02	02	02	02	02	02		
DRAWN	F. CLARK	6/5/79	BUSINESS SYSTEMS							
CHECK		7-3-79								
APPR		7/16/79	TITLE CABLE DIAGRAM, TAPE/DISK CABINET							
RELEASE		8/27/79								
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NEXT ASSY QTY MODEL QTY			DC CODE	D	121199	02				
APPLICATION			SCALE	DO NOT SCALE DWG		SHEET	OF 7			



SIZE	DWG NO	REV
D	121199	02
DO NOT SCALE DWG		SHEET 2

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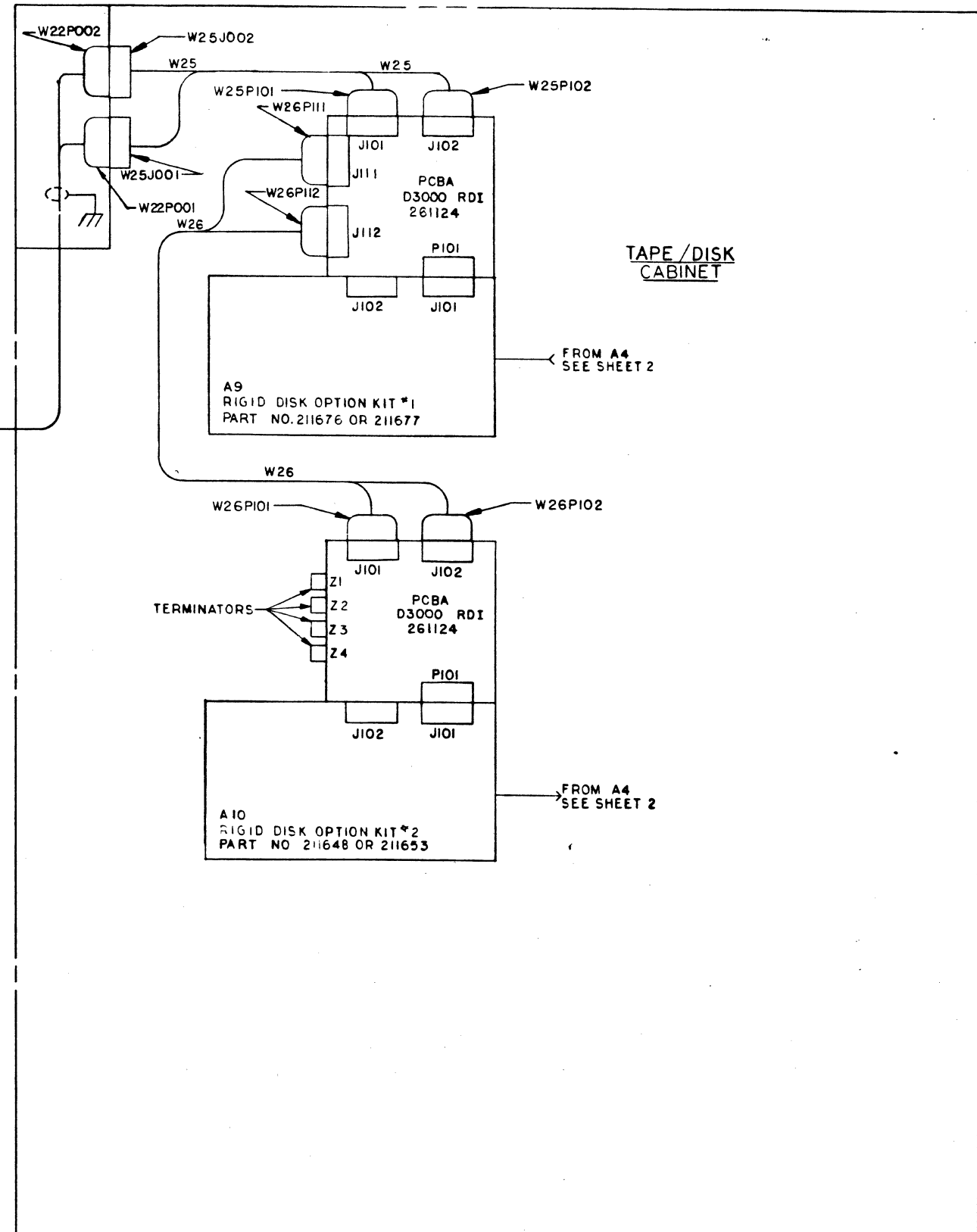
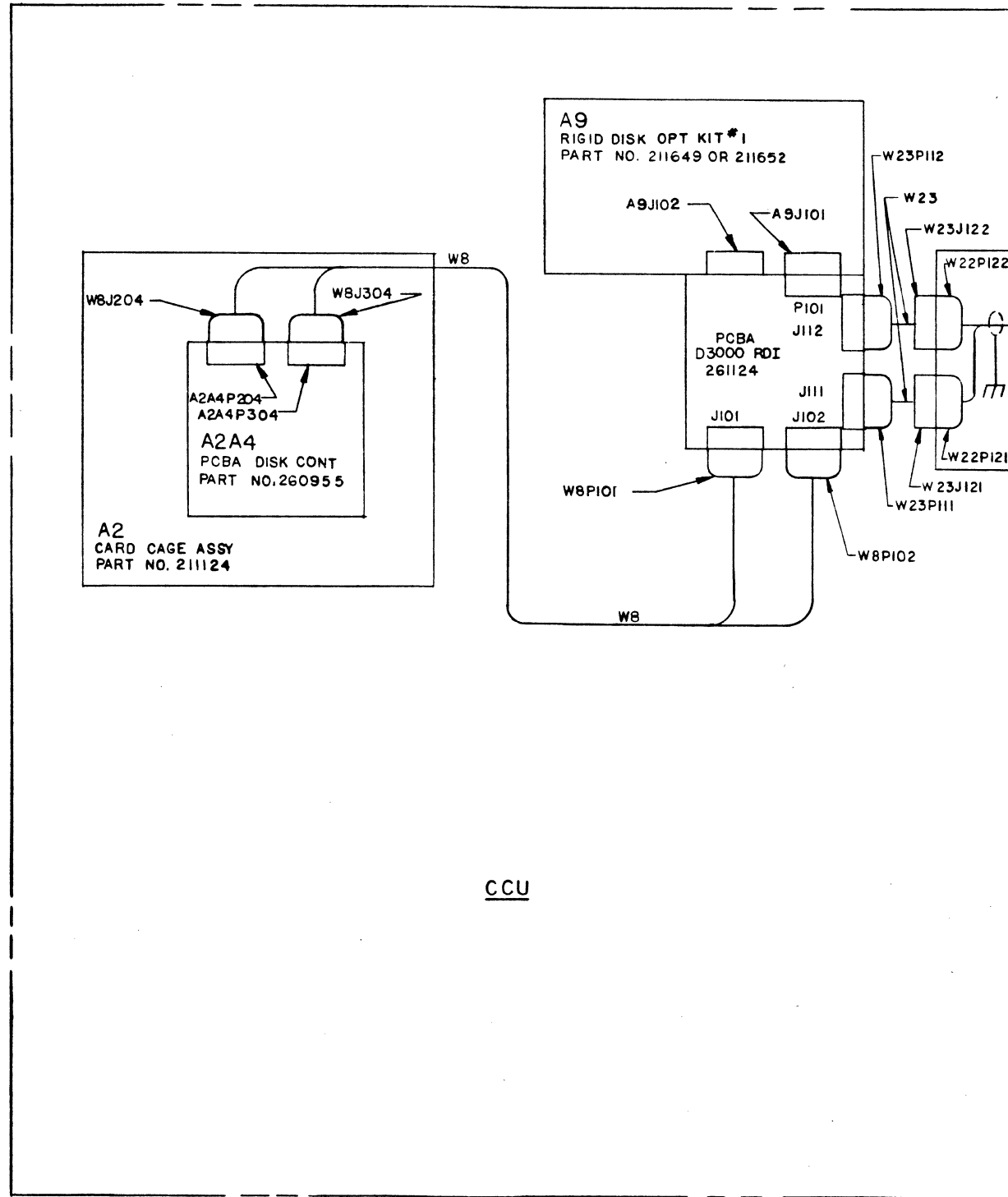
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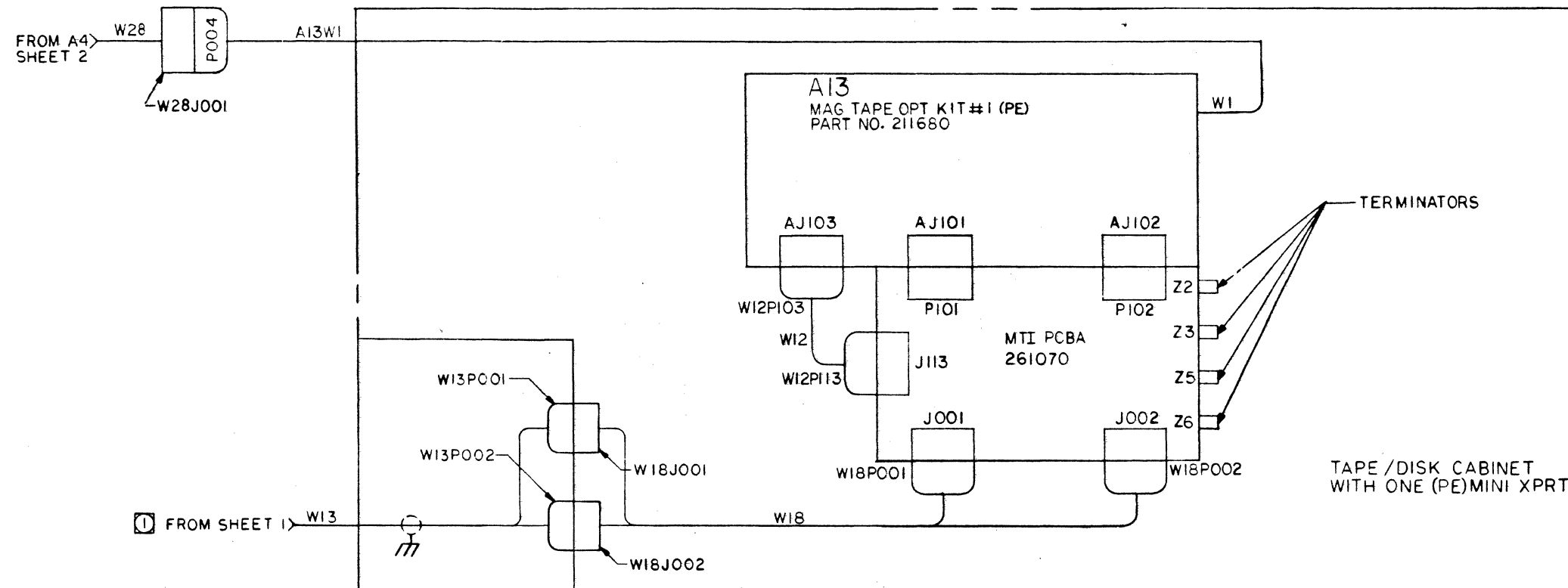
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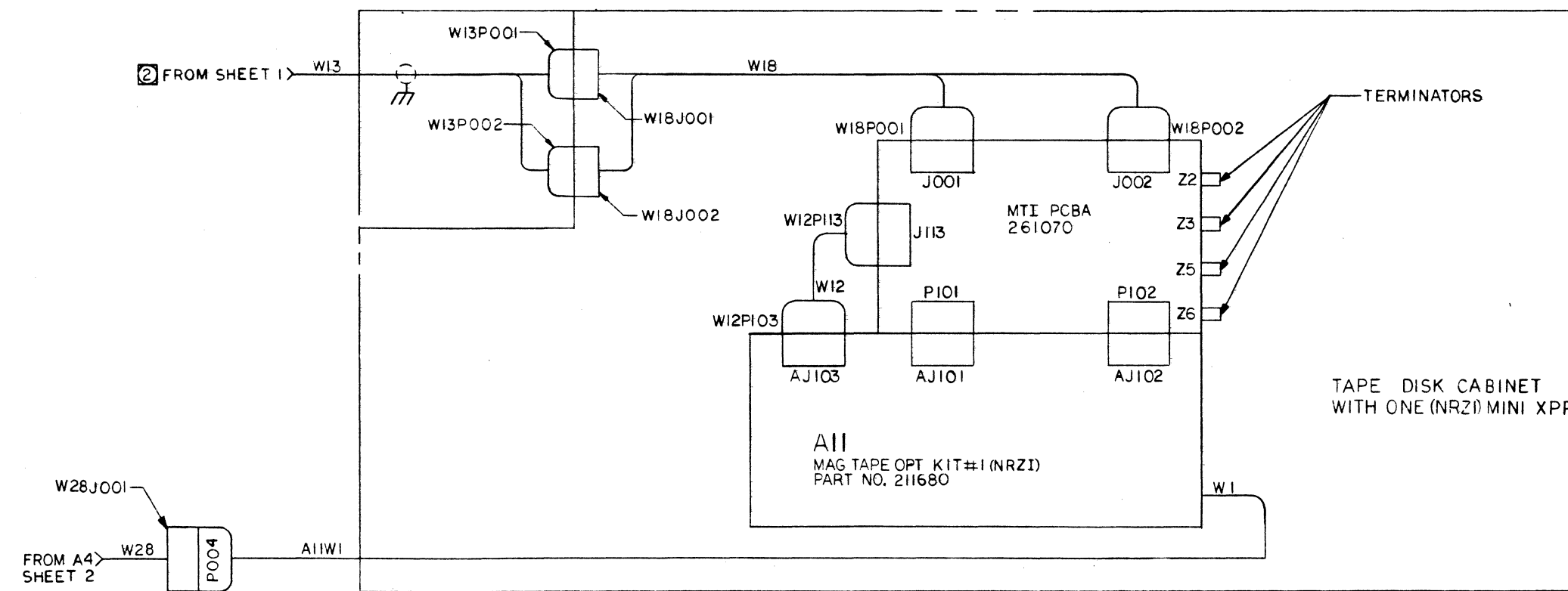
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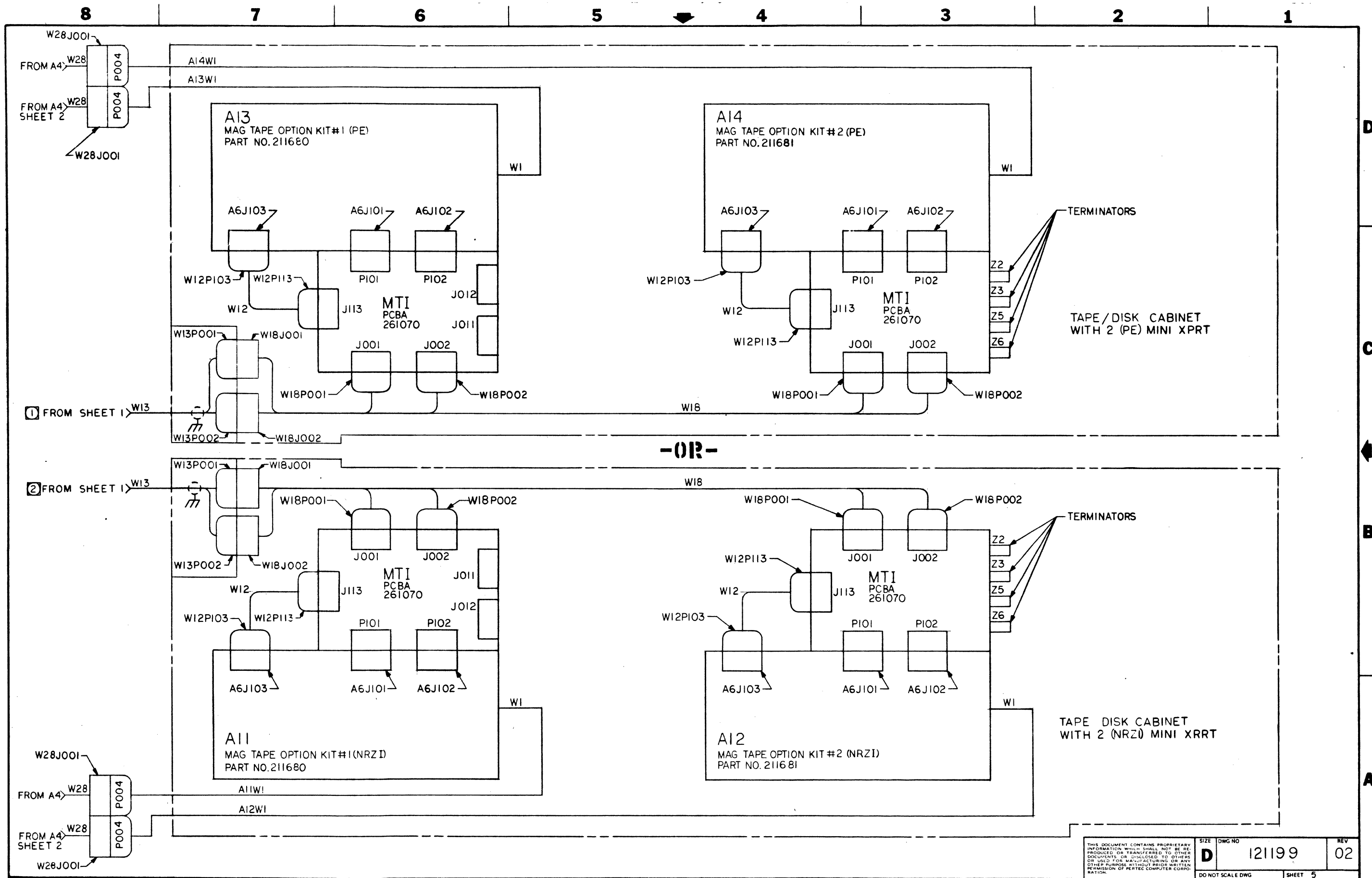


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	D	121199	02
DO NOT SCALE DWG		SHEET 4	

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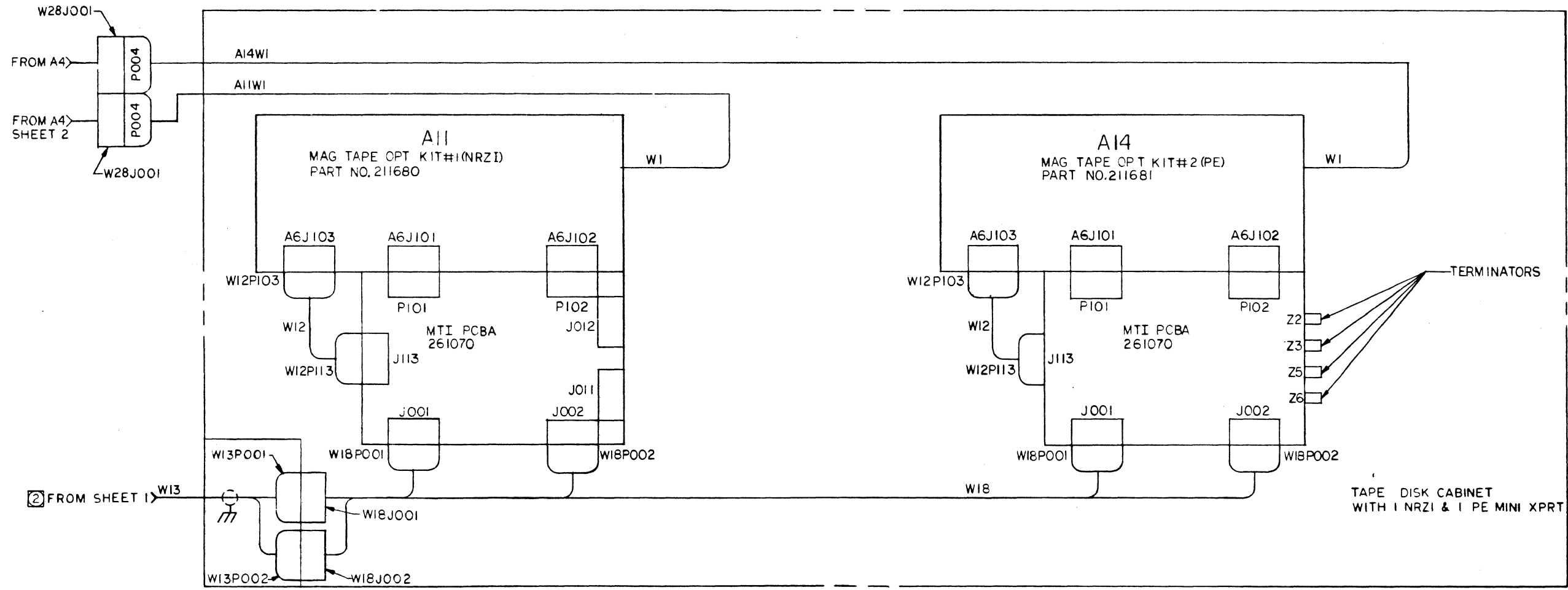
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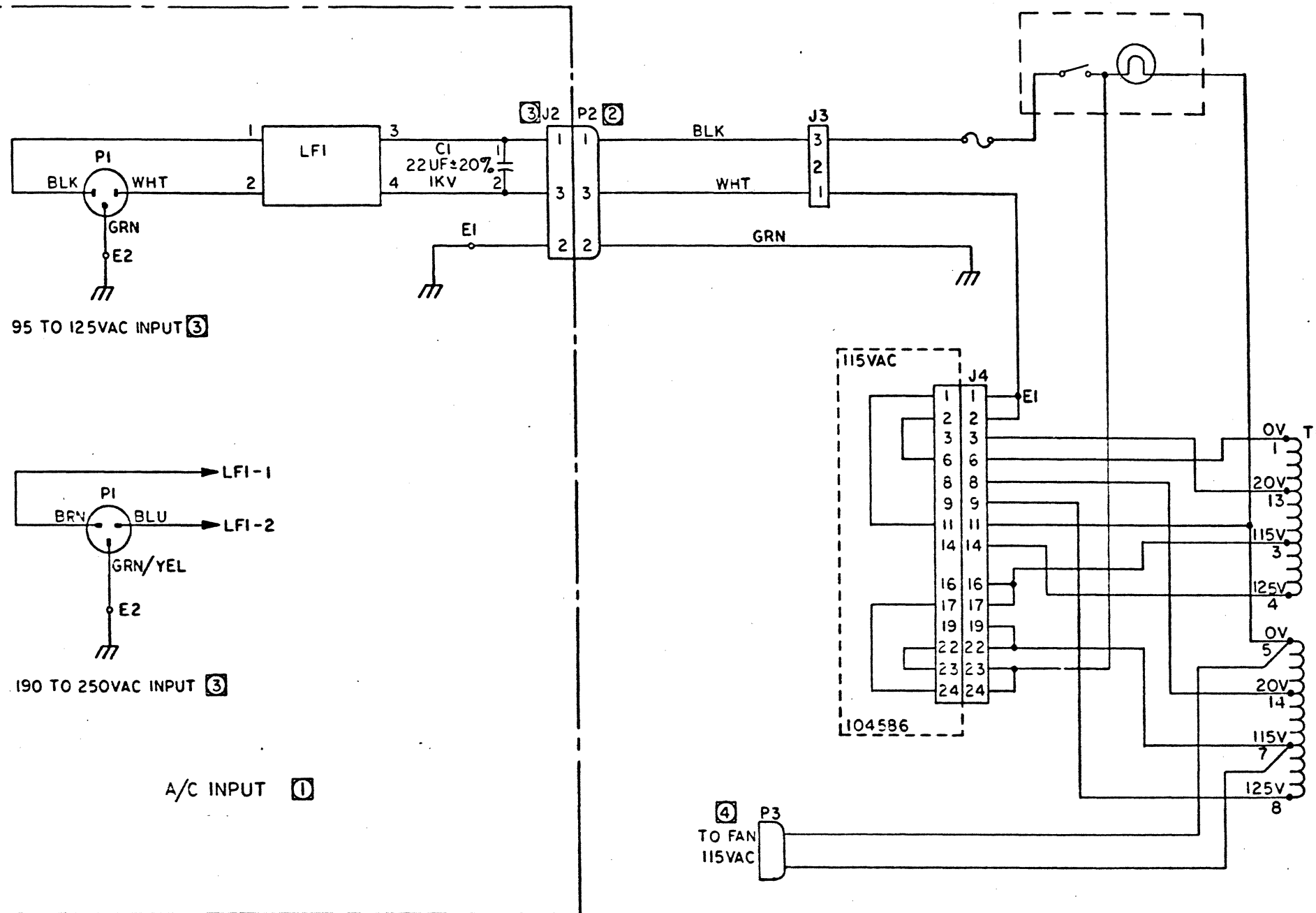
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	<small>DO NOT SCALE DWG</small>		<small>SHEET 6</small>

REVISIONS			
NO.	DESCRIPTION	DATE	BY
01	RELEASE PER DRO 152-79		E B 6/20/79
02	CODE 00 REL WITH CHG REV 4 REDRAWN REL PER DRO 242-79	FC.	W.P.S. 8/1/79
03	CODE 10 REL W/O CHANGE PER DCO 10496	JY	W.P.S. 9/18/79



NOTE: UNLESS OTHERWISE SPECIFIED

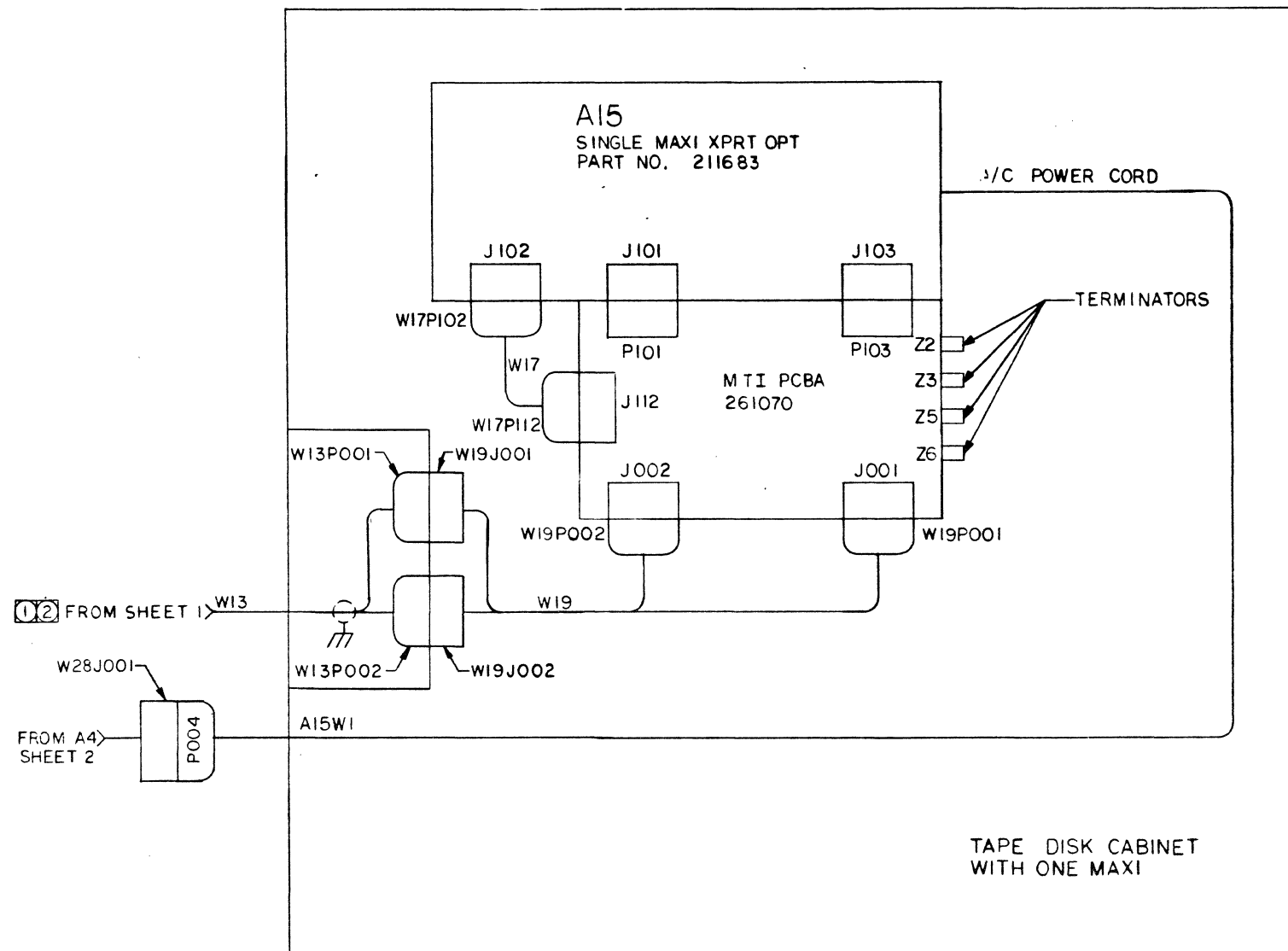
- ① THIS PART OF 211665 (PANEL ASSY) TO BE SEPARATED AND SHIELDED FROM ALL OTHER SYSTEM ELEMENTS.
- ② P2 IS PART OF MAXI XPORT (MOLEX PLUG). FOR TRANSFORMER PRIMARY CONNECTIONS SEE TABLE.
- ③ FOR LINE VOLTAGE OF 95-125VAC PI IS PART OF A/C CABLE 510117 AND J2 IS CONN 320269. REF WIRING CHART 211665-000.  
FOR LINE VOLTAGE OF 190-250VAC PI IS PART OF A C CABLE 510081 AND J2 IS CONN 320269. REF WIRING CHART 211665-001.
- ④ P3 IS PART OF FAN CABLE 510059 CABLE IS WIRED AS SHOWN REGARDLESS OF LINE INPUT.

LINE VOLTS	USE CODED PLUG
95	104586-01
105	02
115	03
125	04
190	05
200	06
210	07
220	08
230	09
240	10
250	104586-11

DRAWN				CHECK				APPR				RELEASE			
DWD	5/23/79	TLR	6/7/79	RS	RES	6/18/79	63	6/20/79	BUSINESS SYSTEMS						
203696 - NTP -								TITLE							
NEXT ASSY QTY MODEL QTY								SCHEMATIC MAXI INPUT POWER (A/C)							
APPLICATION								CODE IDENT. NO. SIZE DWG NO. REV							
								10 D 121198 03							
								SCALE DO NOT SCALE DWG SHEET 1 OF 1							



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	D	121199	02
DO NOT SCALE DWG		SHEET 7	

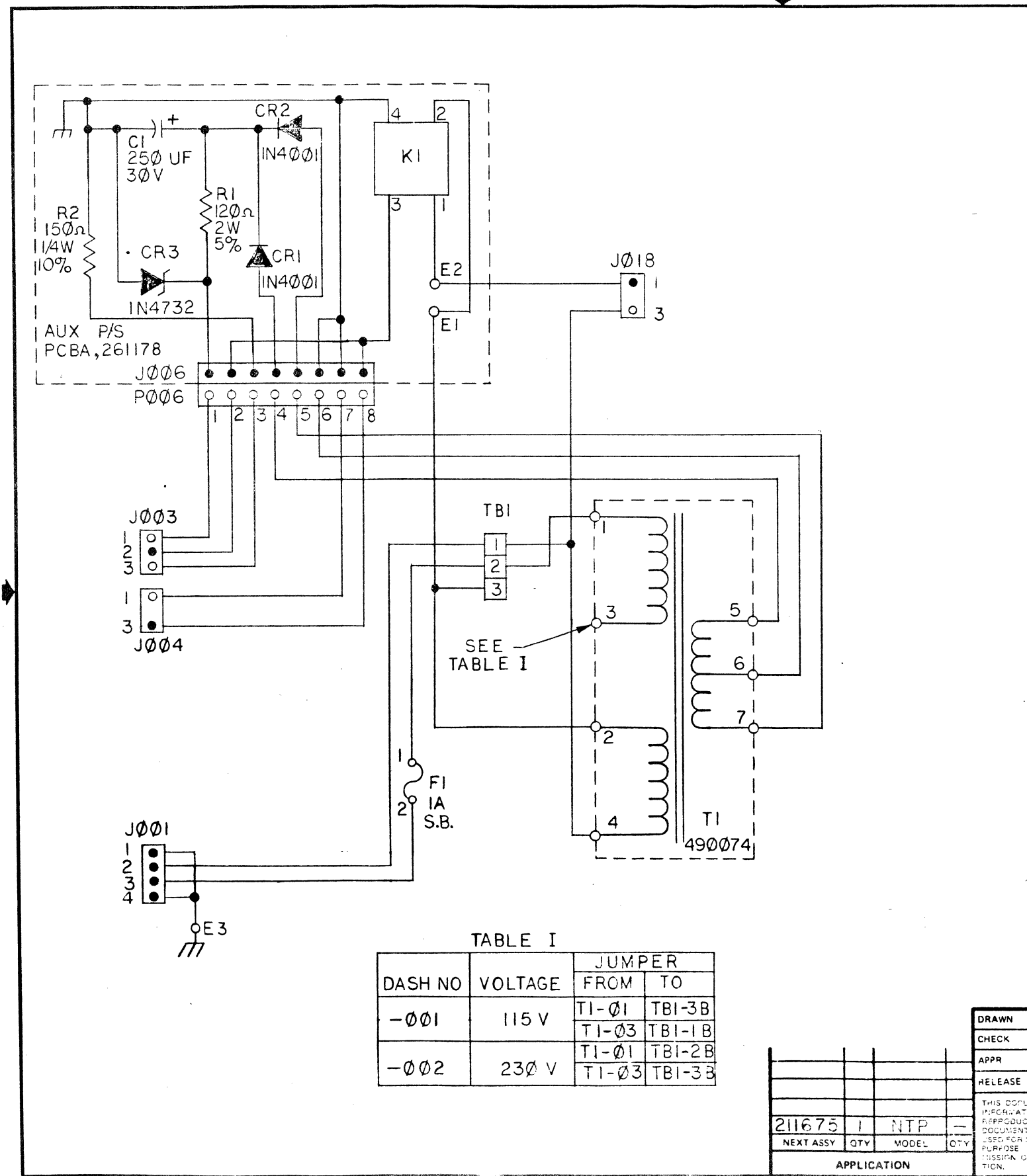


TABLE I

DASH NO	VOLTAGE	JUMPER	
		FROM	TO
-001	115 V	TI-01	TBI-3B
		TI-03	TBI-1B
-002	230 V	TI-01	TBI-2B
		TI-03	TBI-3B

REVISIONS				
SYM	DESCRIPTION	DRFTG	APPROVED	DATE
01	RELEASE PER DRO 247-79		EB	8/2/79
02	CODE 06 REL WITH CHANGES R2 WAS 250Ω 1/4W 5% RELEASE PER DRO 244-79	BNI	EB	8/22/79
03	INCORP DCO 09282	SIA	EB	10/2/79
04	CODE 10 REL W/O CHANGES PER DCO 10498	EM	EB	4/13/80
05	INCORP DCO 09996	F.C.	EB	4/13/80
06	INCORP DCO 10649	F.C.	EB	4/25/80

NOTE: UNLESS OTHERWISE SPECIFIED

DRAWN	<i>R. M. ...</i>	DATE	8-25-79	<b>PERTEC COMPUTER CORPORATION</b>
CHECK	<i>F. G. ...</i>	DATE	8-27-79	
APPR	<i>F. G. ...</i>	DATE	8-27-79	
RELEASE	<i>G. ...</i>	DATE	8/27/79	
TITLE				SCHEMATIC, AUX P/S
DC CODE		10	REV	
SCALE		DO NOT SCALE DWG	SHEET 1 OF 1	

211675	1	NTP	-
NEXT ASSY	QTY	MODEL	QTY
APPLICATION			

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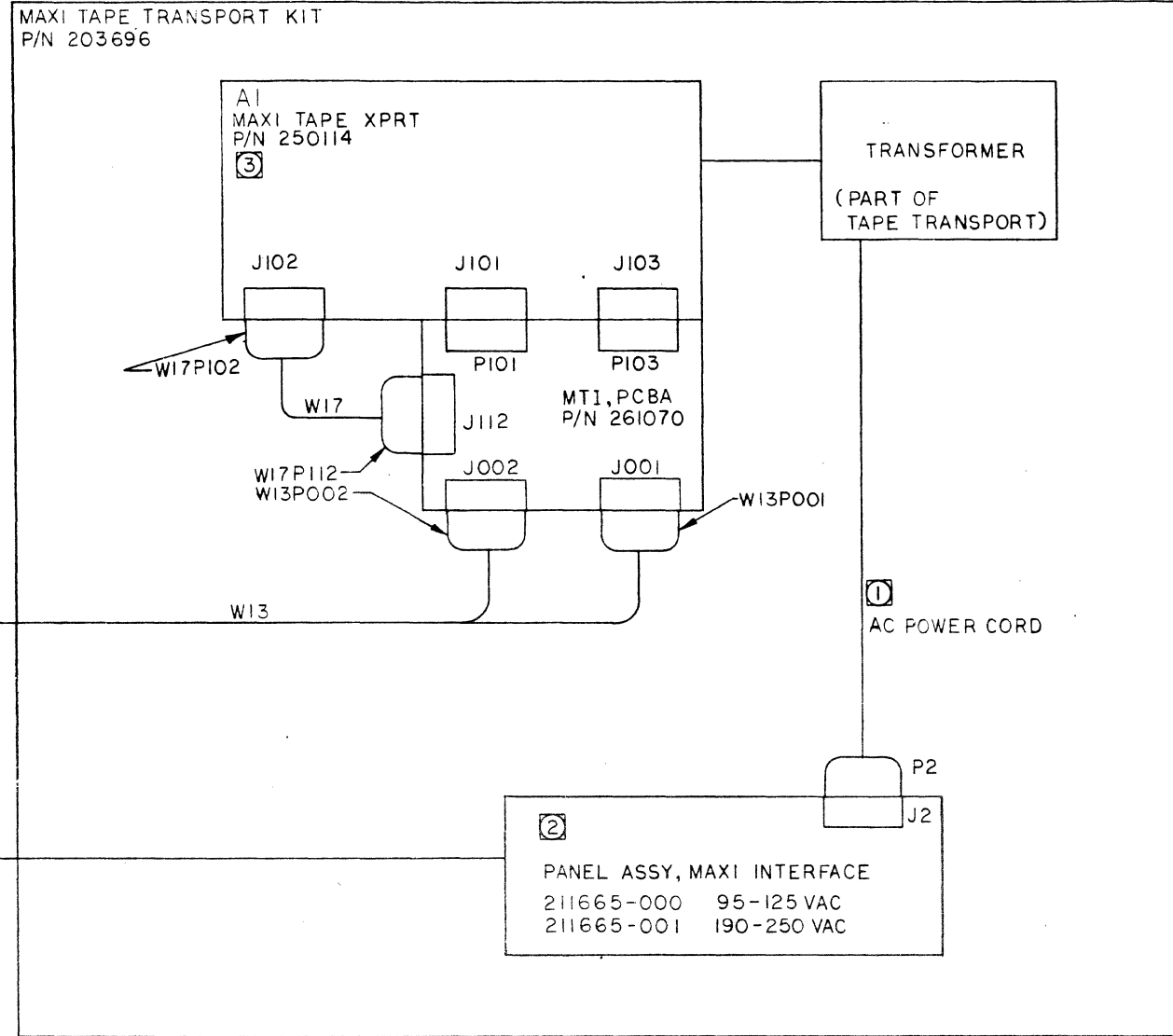
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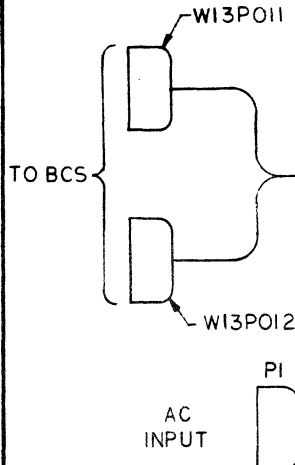
2

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REVISIONS				
SYM	DESCRIPTION	DRAFT	APPROVED	DATE
01	RELEASE PER DRO		EB	4/20/65
02	CODE 03 REL W/O CHANGES PER DCO 09297	BN	EB	7/30/64
03	INCORP DCO 09610	BN	EB	1/17/65
04	INCORP DCO 09984	FC	EB	1/17/65
05	CODE 10 REL W/O CHANGES PER DCO 10496	BN	EB	4/14/65



- NOTE: UNLESS OTHERWISE SPECIFIED**
- ① FOR DESIRED VOLTAGE REQUIRED SEE DWG 250114 FOR AC POWER CORD CONNECTIONS AT TRANSFORMER.
  - ② SELECT CORRECT PANEL ASSY DASH NO TO AGREE WITH MAXI XPRT VOLTAGE REQUIREMENT.
  - ③ FOR MAXI XPRT DESIRED SELECT DASH NO FROM DWG 203696.
  - 4. REF SCHEM 121198.



ITEM NO.	QTY	RECD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION
MATERIAL LIST				
UNLESS OTHERWISE SPECIFIED		DRAWN	<i>B. Quinn</i>	<i>5-20-79</i>
1 TOLERANCES	XX ±.020 ANGULAR	CHECK	<i>R. Ross</i>	<i>6-7-79</i>
2 REMOVE ALL BURRS	XXX ±.010 0°30'	APPR	<i>K. G. Gifford</i>	<i>5-18-79</i>
3 BREAK ALL SHARP EDGES	010 APPROX	RELEASE	<i>S. E. Smith</i>	<i>5-23-79</i>
4 MACH SURFACES 125/100	BETTER	THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR TRANSMITTED TO OTHER DOCUMENTS OR DISCLOSED TO OTHERS OR USED FOR MANUFACTURING OR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN PERMISSION OF PERTEC BUSINESS SYSTEMS		
5 INTERPRET DWG PER MIL-D-1000	6 DIM ARE IN INCHES			
MATERIAL:		CODE IDENT NO	SIZE	DWG NO
FINISH:		D.C. CODE	<b>D</b>	121207
APPLICATION		SCALE	NONE	DO NOT SCALE DWG
		SHEET	1	OF 1

NTP			
NEXT ASSY	QTY	MODEL	QTY
APPLICATION			

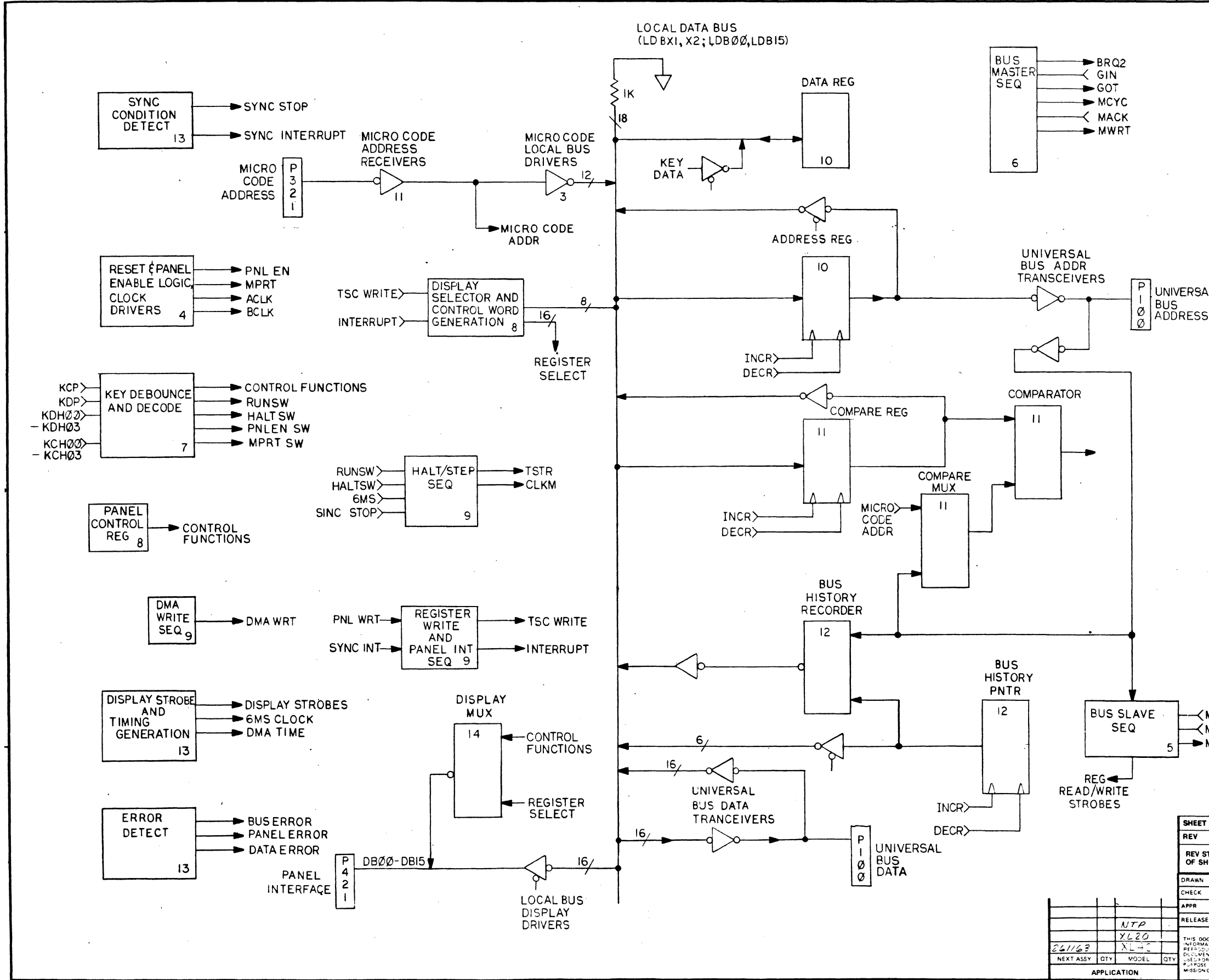
D

C

B

A

REVISIONS				
SYM	DESCRIPTION	DFTG	APPROVED	DATE
01	RELEASE PER DCO 258-79	JD	[Signature]	10-10-79
02	INCORP DCO 09707	BM	CB	11/11/79
03	CODE 10 REL W/O CHANGES PER DCO 10498	BM	EB	4/11/80



NOTE: UNLESS OTHERWISE SPECIFIED  
 1. ALL RESISTORS ARE IN OHMS ±10%, 1/4W.

SHEET	12	13	14										
REV	03	03	03										
REV STATUS OF SHEETS	SHEET	1	2	3	4	5	6	7	8	9	10	11	
	REV	03	03	03	03	03	03	03	03	03	03	03	

**BUSINESS SYSTEMS**

TITLE: SCHEMATIC, TEST SET CONTROLLER

CODE IDENT. NO. DC CODE: D 121219

SIZE: 121219

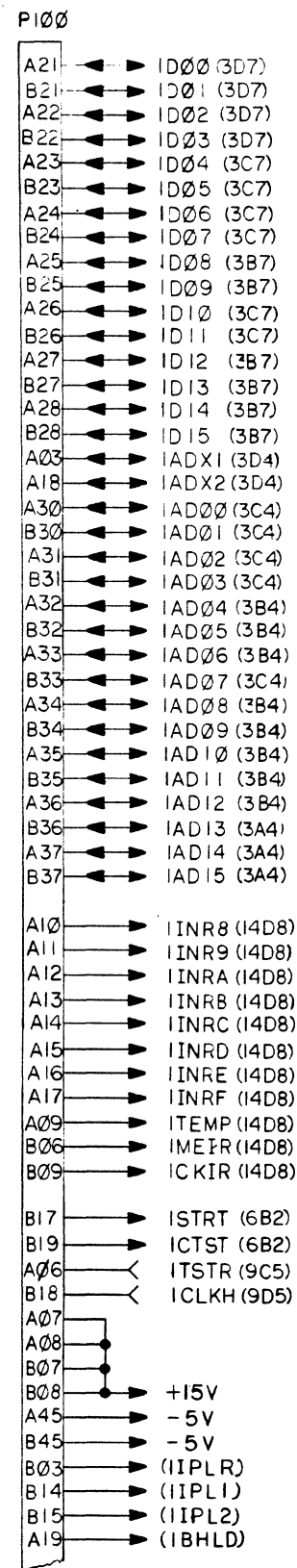
REV: 03

SCALE: DO NOT SCALE DWG

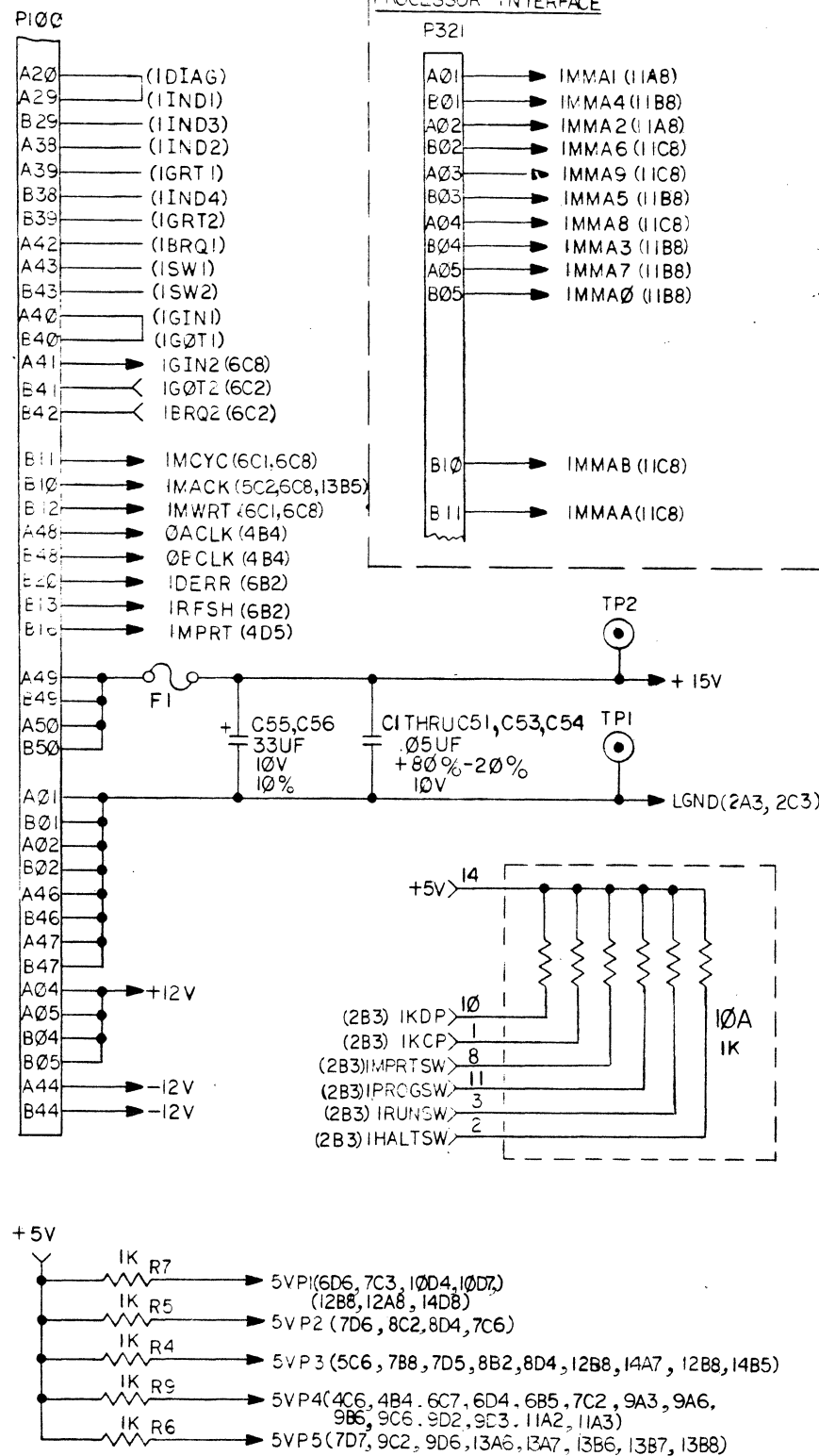
SHEET 1 OF 14

D  
C  
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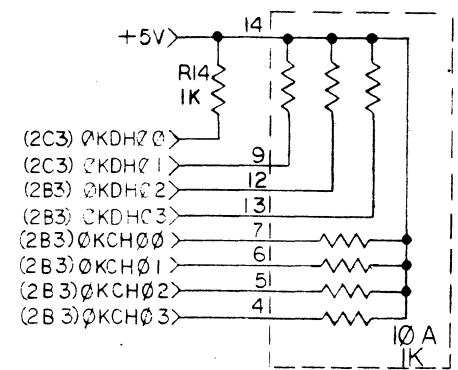
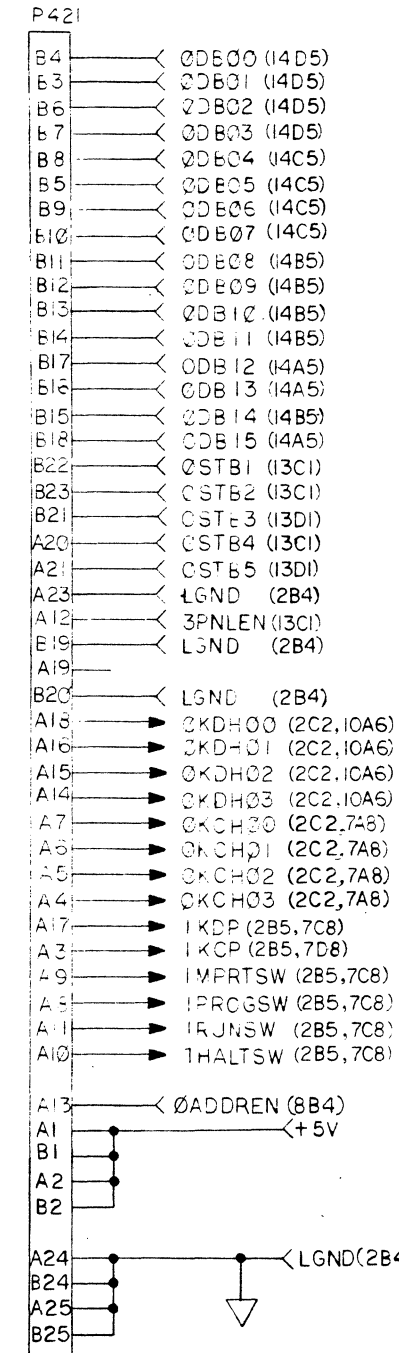
UNIVERSAL BUS INTERFACE



PROCESSOR INTERFACE



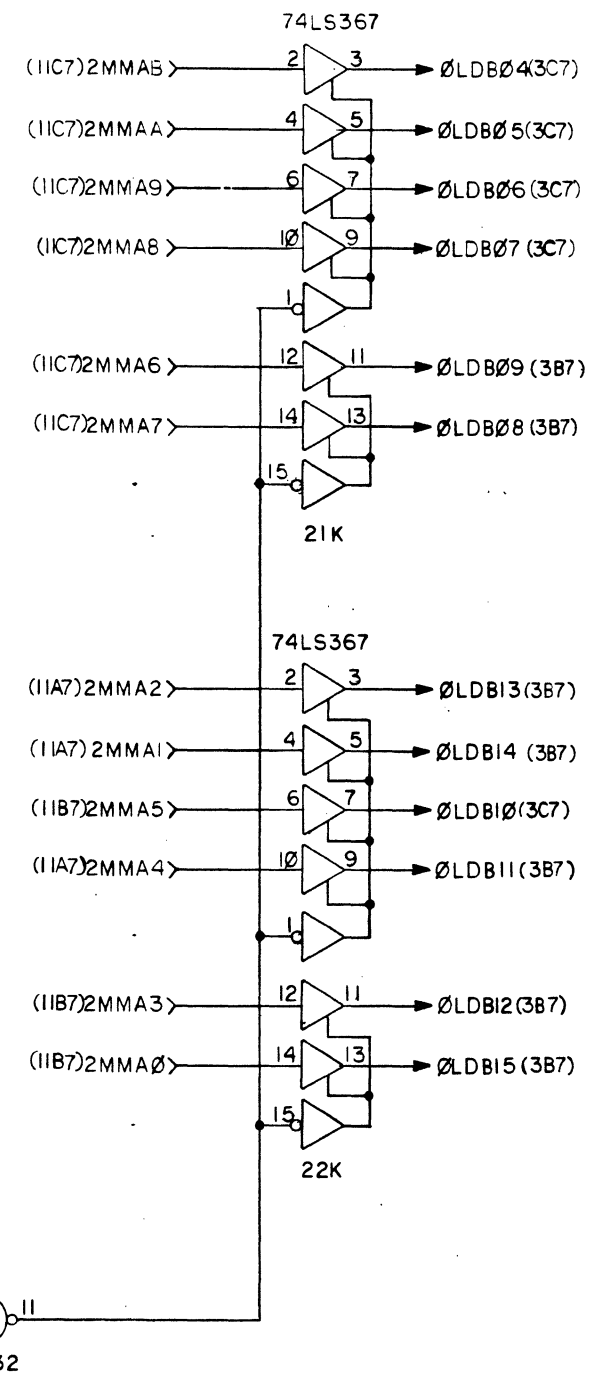
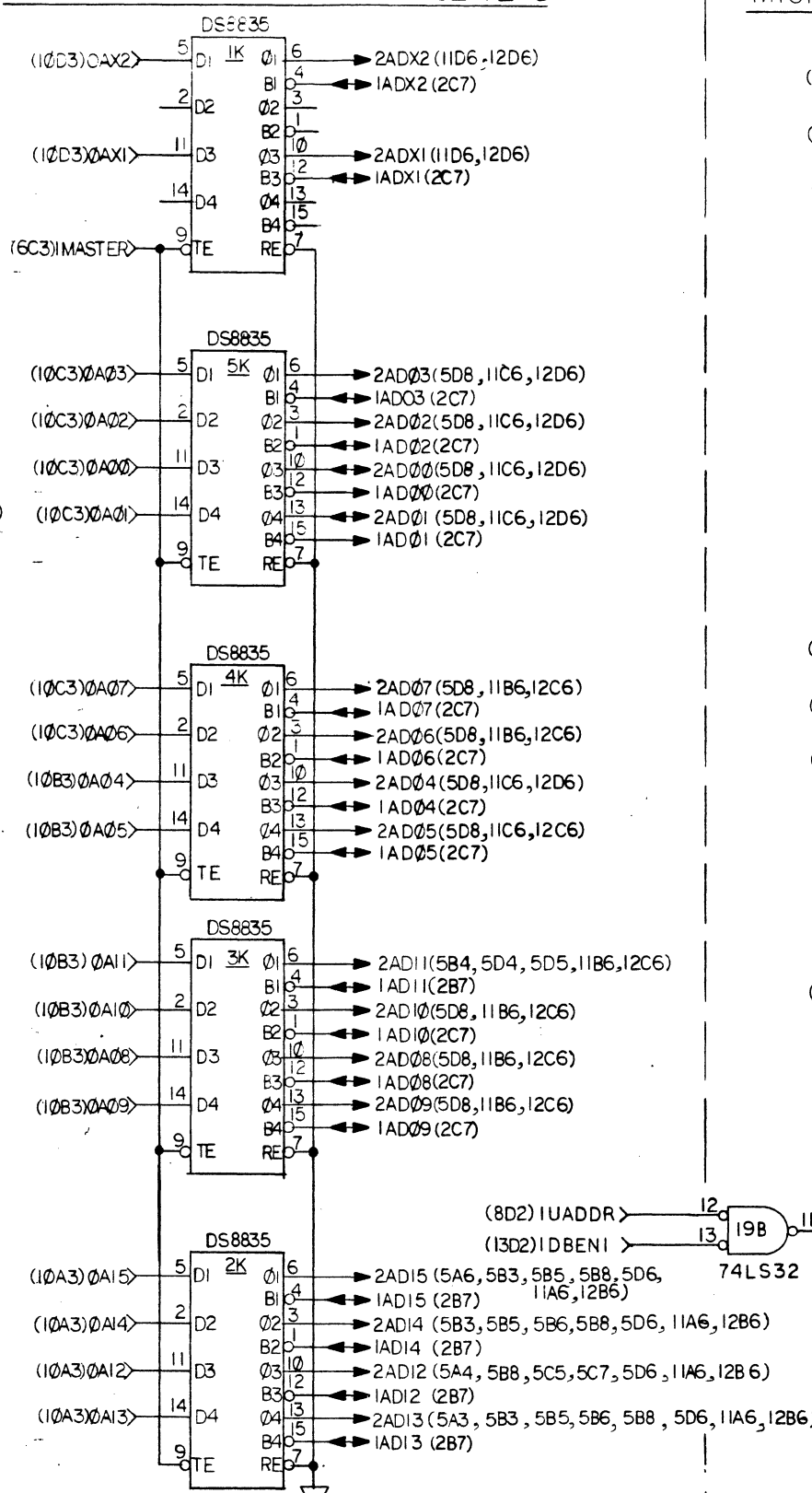
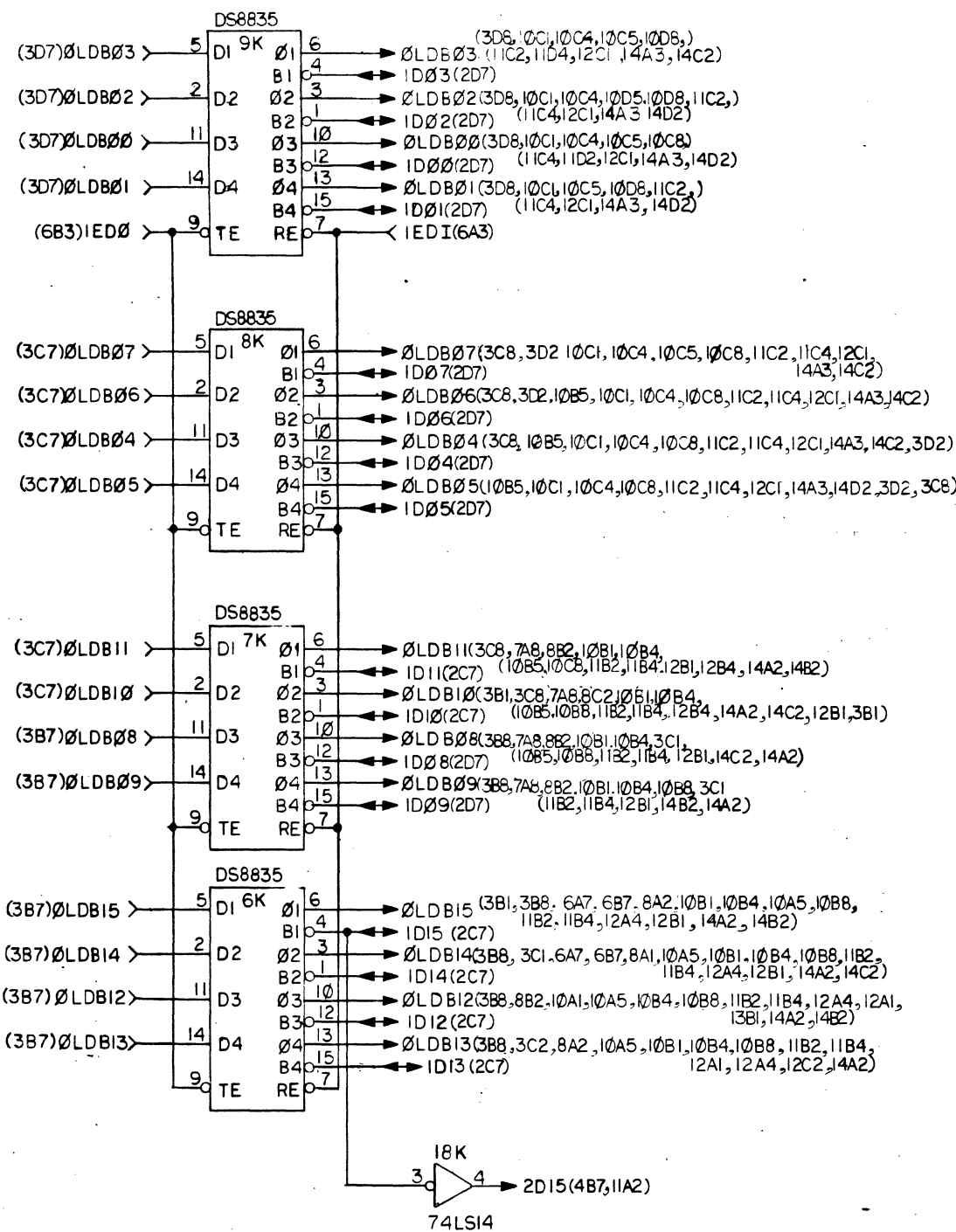
PANEL INTERFACE



SPARE IC GATES NOTE CIRCLED PIN NUMBERS ARE OUTPUTS		
7438	5B 13K	⑨,⑩,⑪,⑫,⑬ 1,2,③
74LS07	16C 6C	4,5,⑥ 4,5,⑥
74LS02	13C	⑧,⑨,⑩
74LS04	20B 12C 13C 12D 18E 12H	1,②,③,④,⑤,⑥,⑦,⑧,⑨,⑩,⑪,⑫,⑬,⑭ 1,②,③,④,⑤,⑥ ③,④,⑤,⑥ ⑫,⑬ ③,④,⑤,⑥,⑨ ⑤,⑥
7405	21A	③,④,⑤,⑥,⑨,⑩,⑪,⑫,⑬
7406	16A	③,④,⑤,⑥,⑦,⑧,⑨,⑩,⑪,⑫,⑬
74LS08	15K	1,2,③,④,⑤,⑥,⑦,⑧,⑨,⑩
74LS06	4C 14C	1,2,③ 4,5,⑥
74LS10	1C 17D	③,④,⑤,⑥ ③,④,⑤,⑥,⑦,⑧,⑨,⑩,⑪,⑫,⑬,⑭
74LS11	11F 19F	⑧,⑨,⑩,⑪ ⑧,⑨,⑩,⑪
74LS14	18K	1,②,③,④,⑤,⑥,⑦,⑧,⑨,⑩,⑪,⑫,⑬
7425	13B	⑧,⑨,⑩,⑪,⑫,⑬
74LS32	14A 19B 6D 14H	1,2,③ 1,2,③ 1,2,③,④,5,⑥ ⑧,⑨,⑩
74LS74	5C	1,2,3,4,⑤,⑥
RESISTOR NETWORK	21C 23C 1K	9,⑩,⑪,⑫,⑬ 9,⑩,⑪,⑫,⑬ 2,3,4,5,9,⑩,⑪,⑫,⑬
SPARE IC LOCATIONS		
14 PIN	21B	
16 PIN	22A 23A 1B 22B 23B 23E 23F 5A	

UNIVERSAL BUS ADDR TRANSCEIVERS

MICRO CODE LOCAL BUS DRIVERS



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	D	121219	03

DO NOT SCALE DWG SHEET 3

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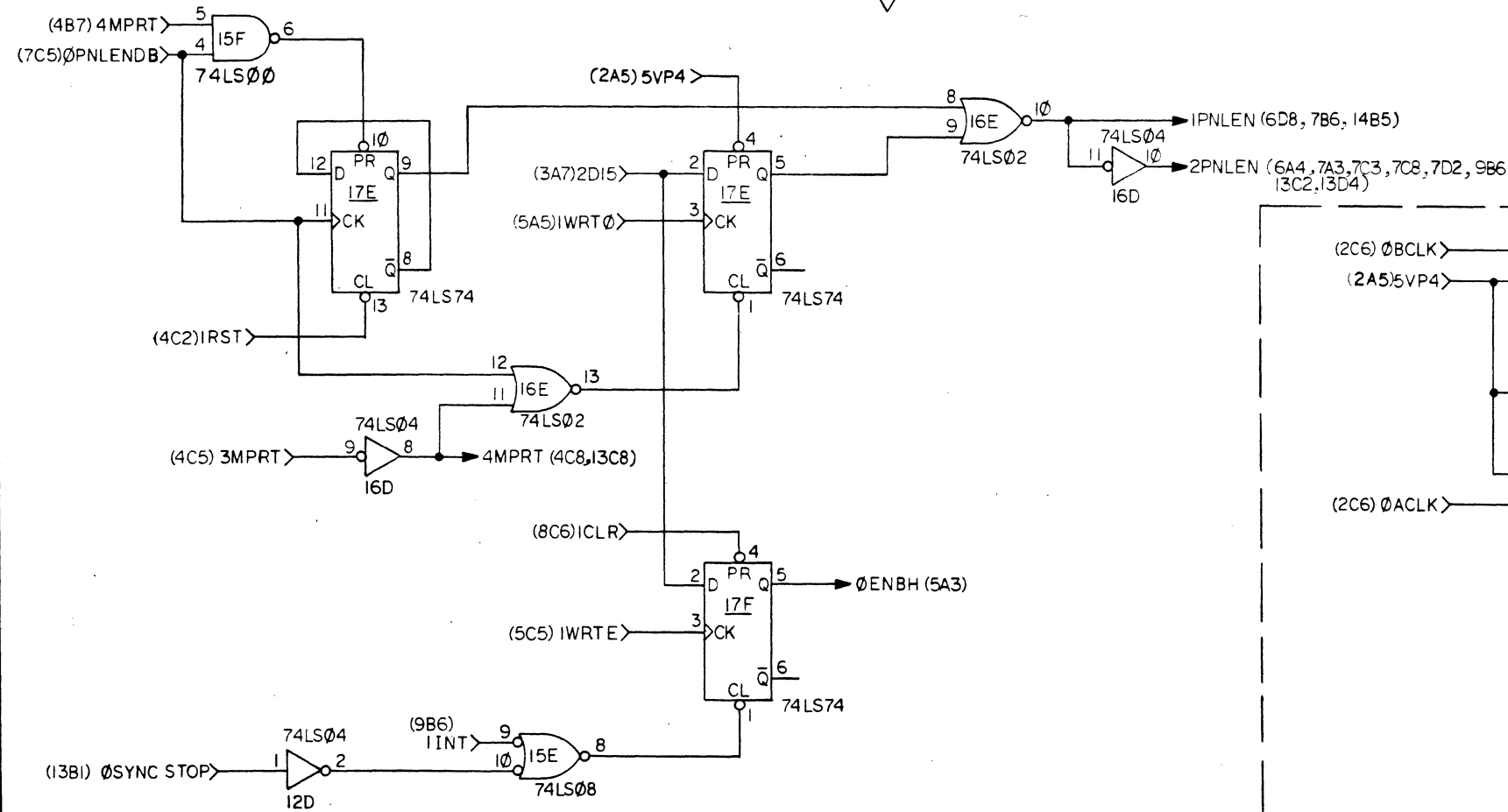
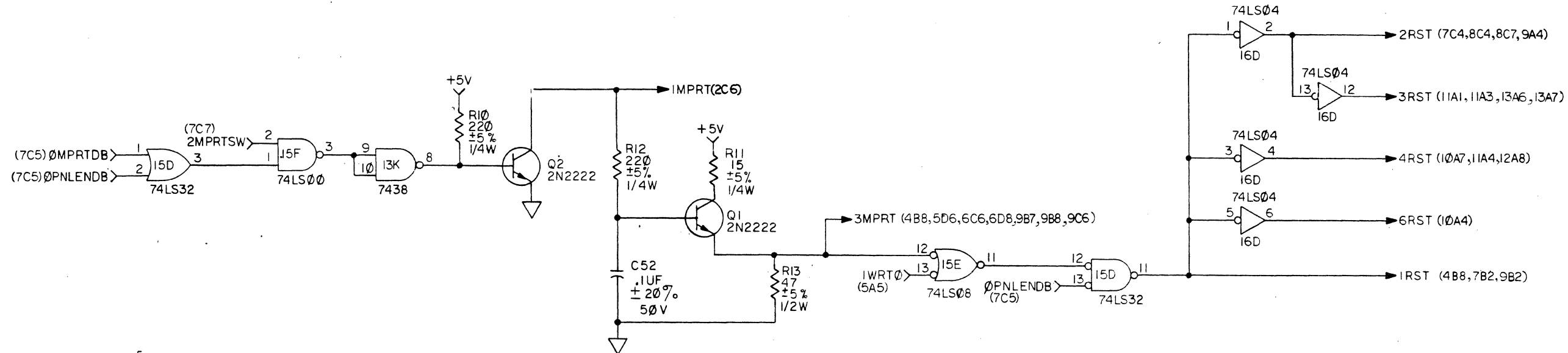
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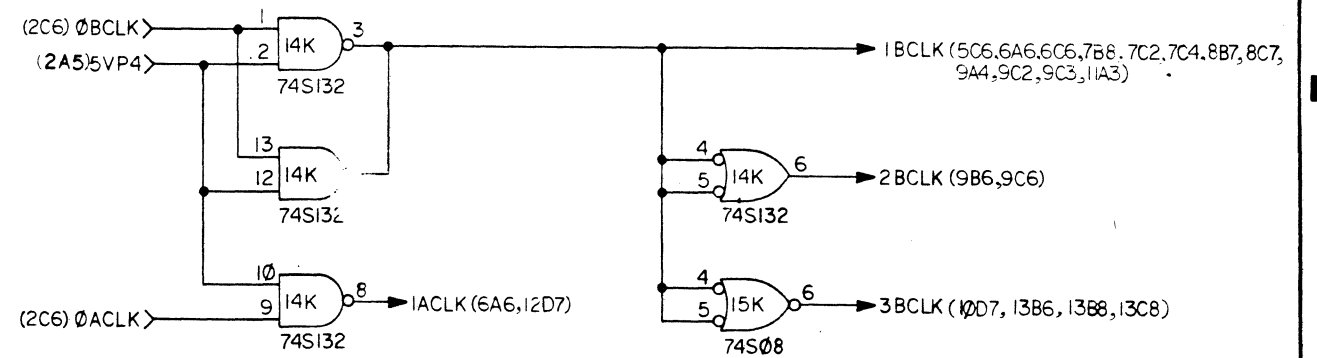
2

1

RESET AND PANEL ENABLE LOGIC



CLOCK DRIVERS



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	D	121219	03
DO NOT SCALE DWG		SHEET 4	

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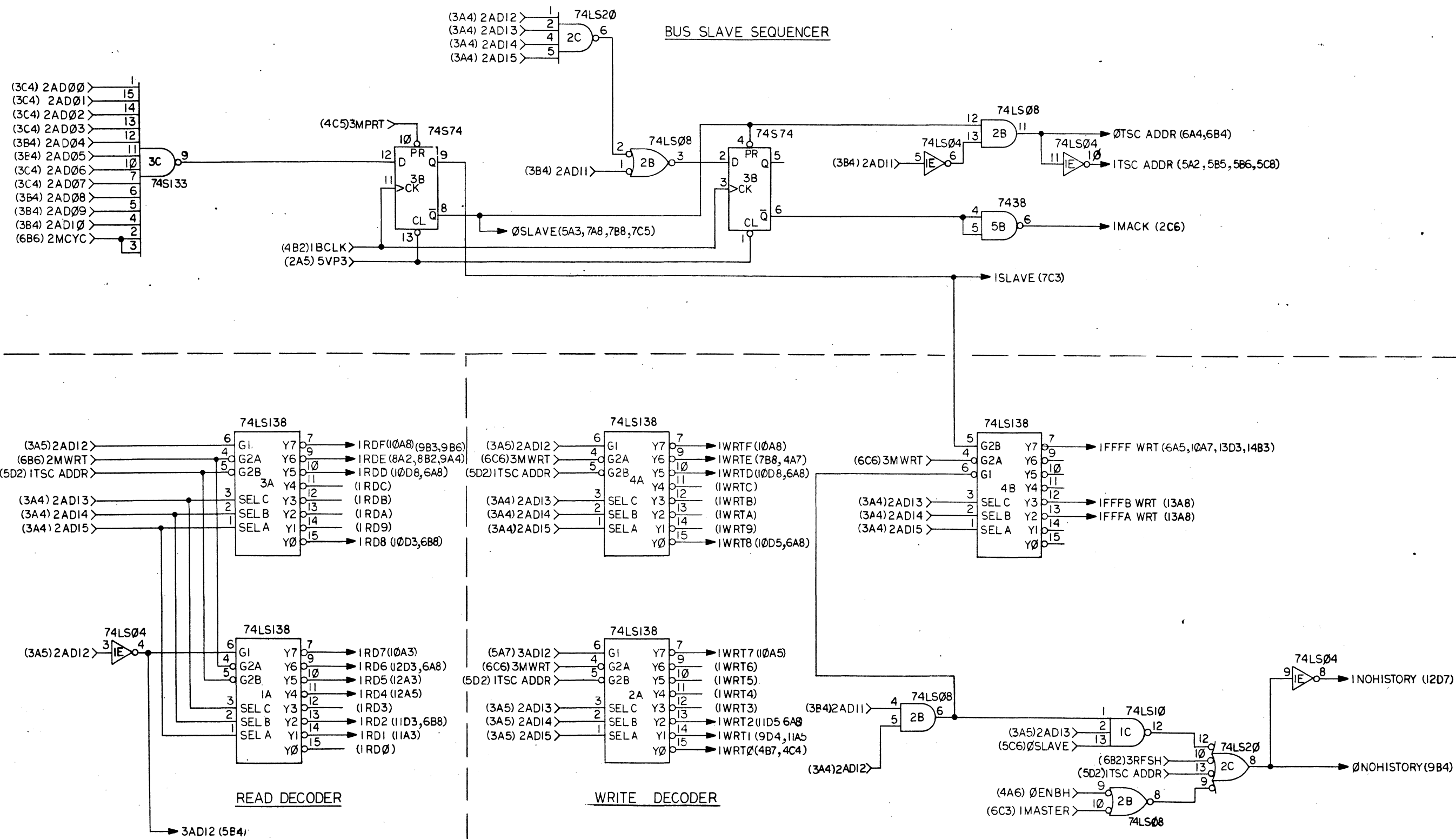
1

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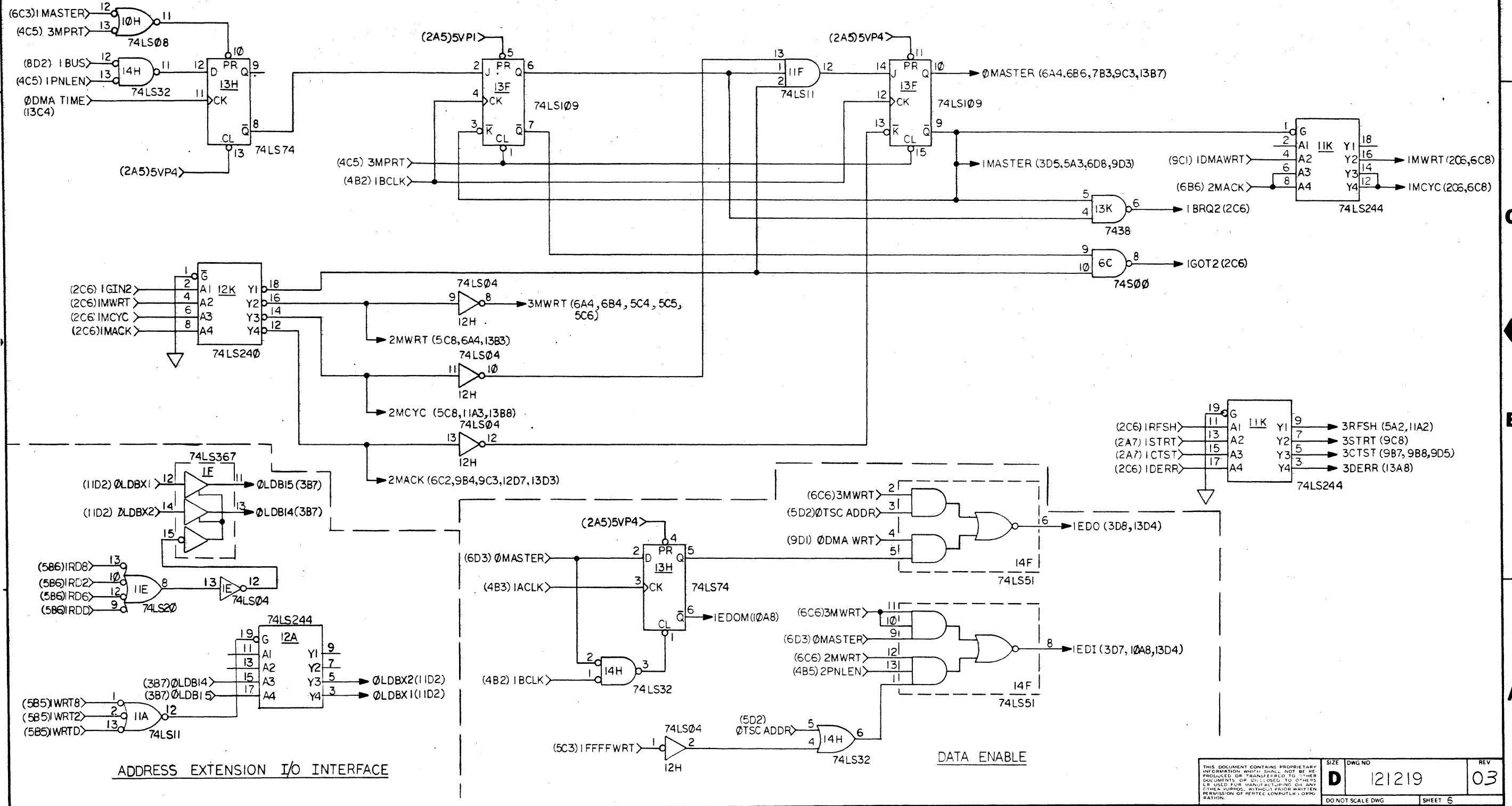
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1

BUS MASTER SEQUENCER



ADDRESS EXTENSION I/O INTERFACE

DATA ENABLE

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SIZE	DWG NO	REV	
<b>D</b>	121219	03	
DO NOT SCALE DWG			SHEET 5

D  
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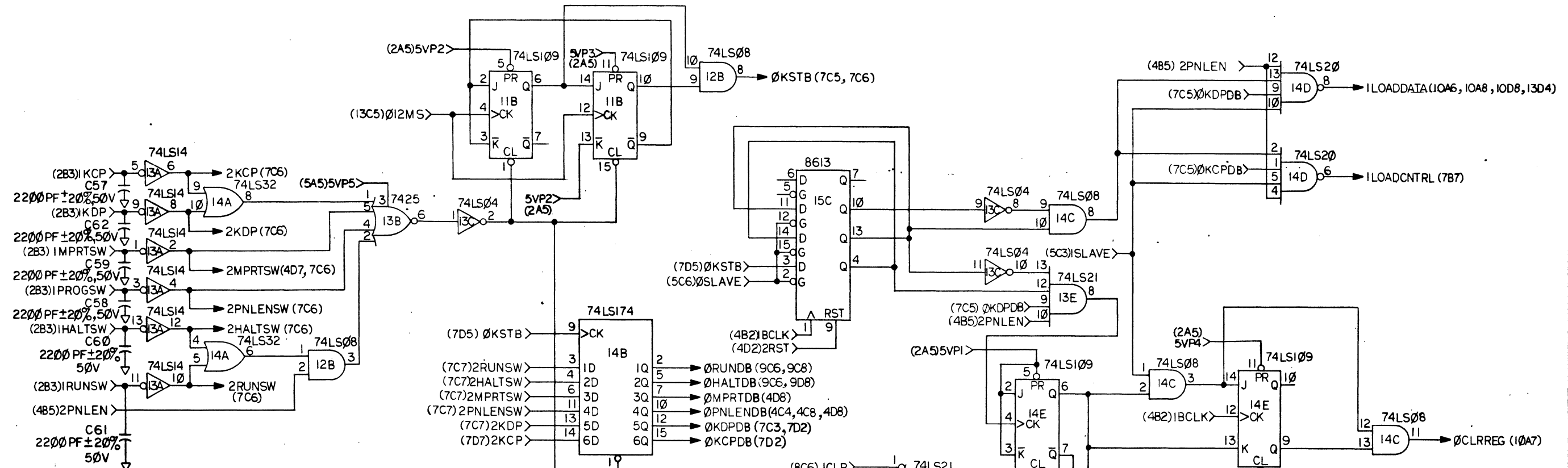
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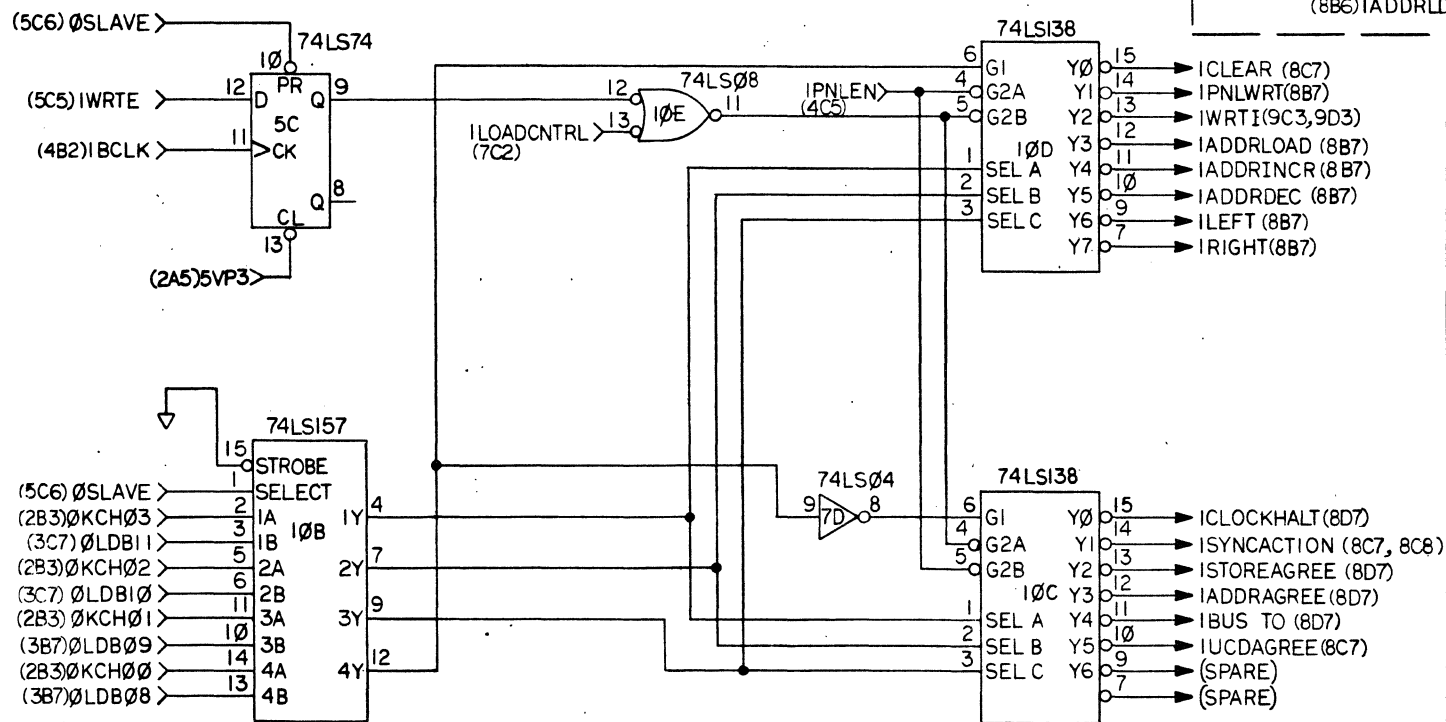
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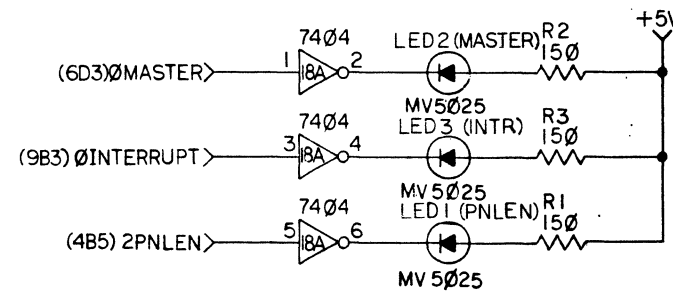
### KEY DEBOUNCE AND DECODE



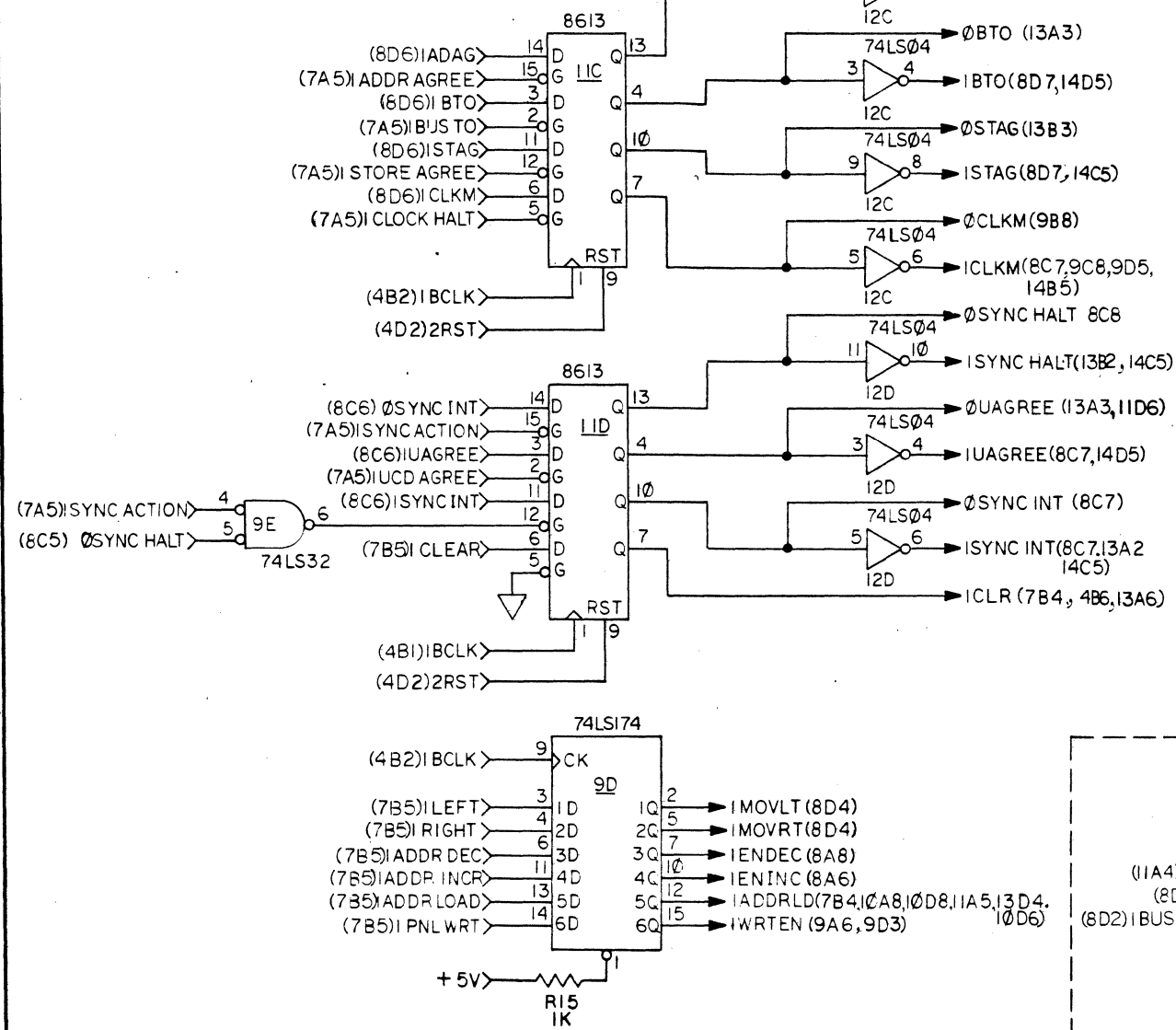
### CONTROL KEY SIMULATE



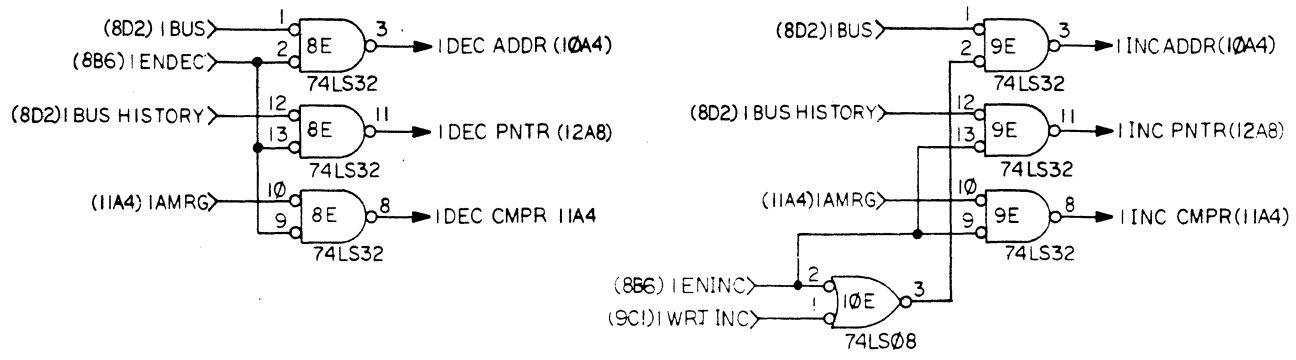
### INDICATORS



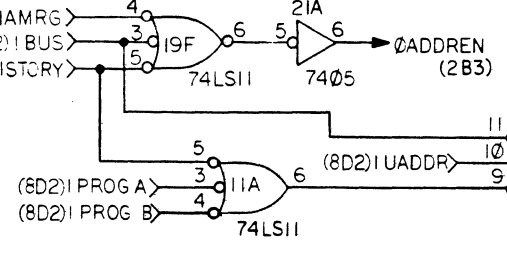
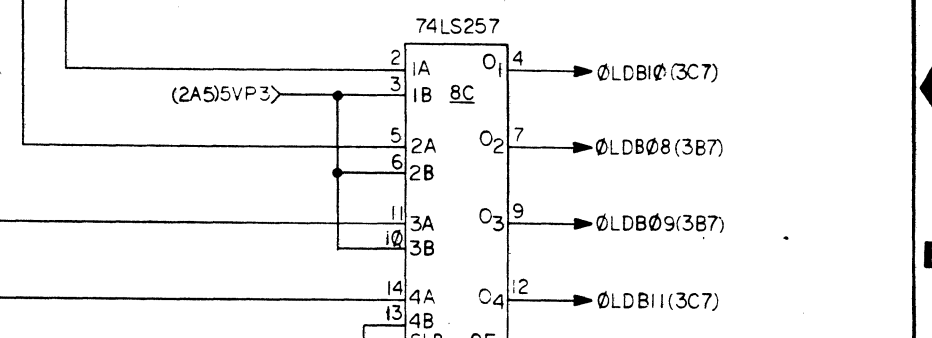
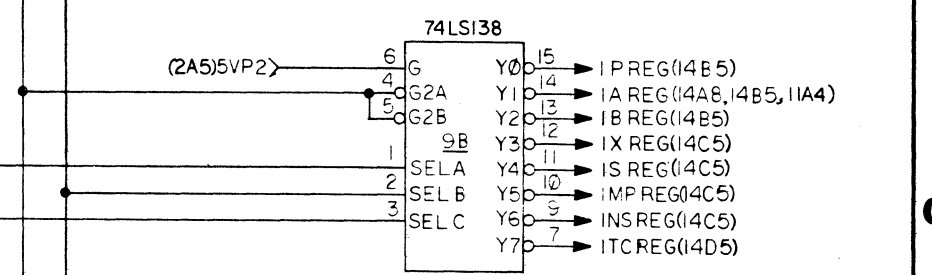
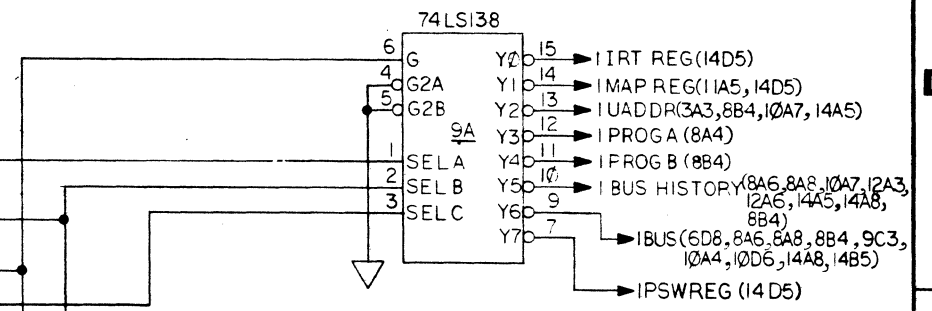
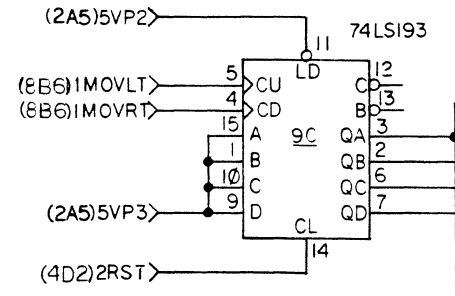
PANEL CONTROL REGISTER



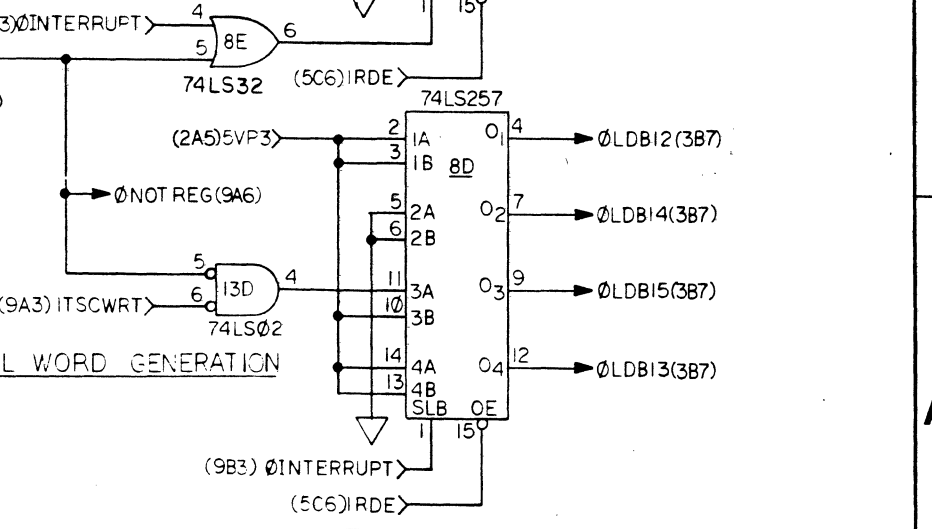
INCREMENT AND DECREMENT LOGIC



DISPLAY SELECTOR COUNTER

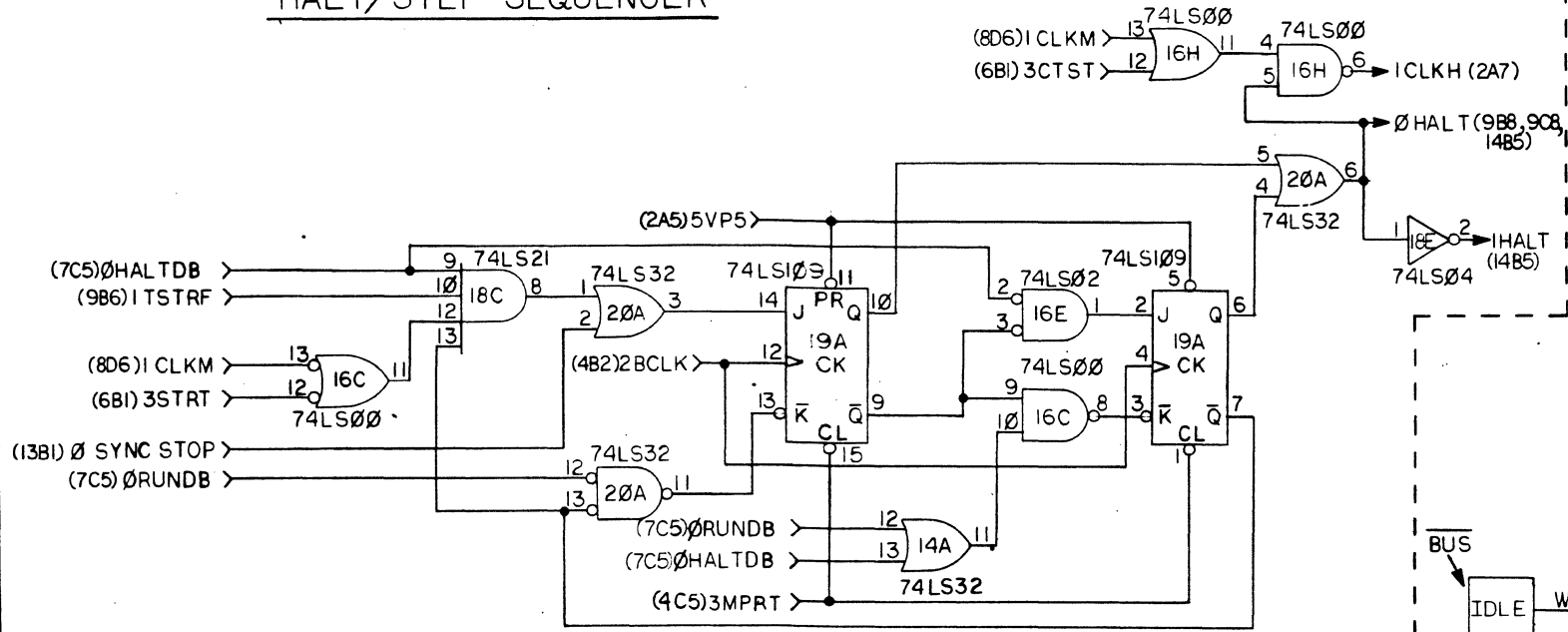


DISPLAY SELECTOR AND CONTROL WORD GENERATION

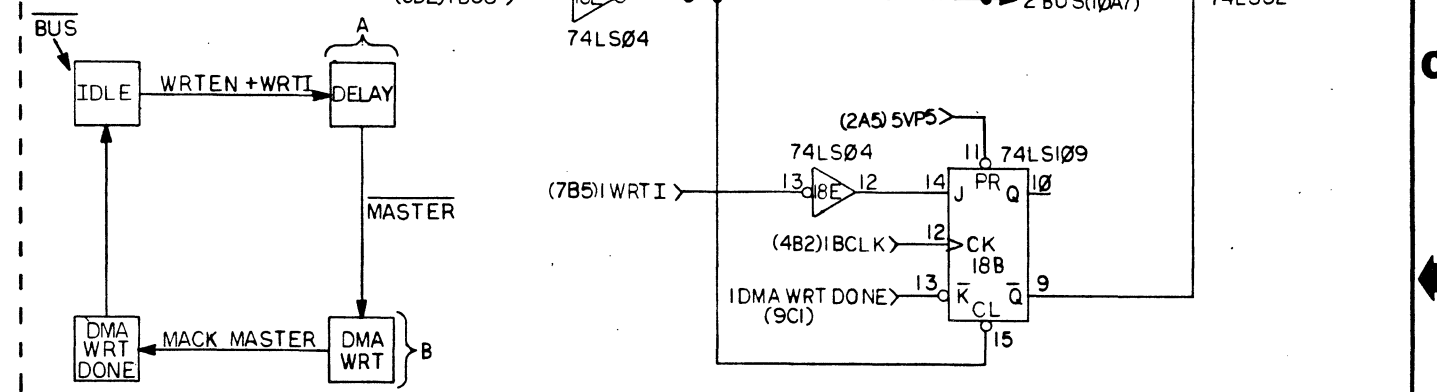
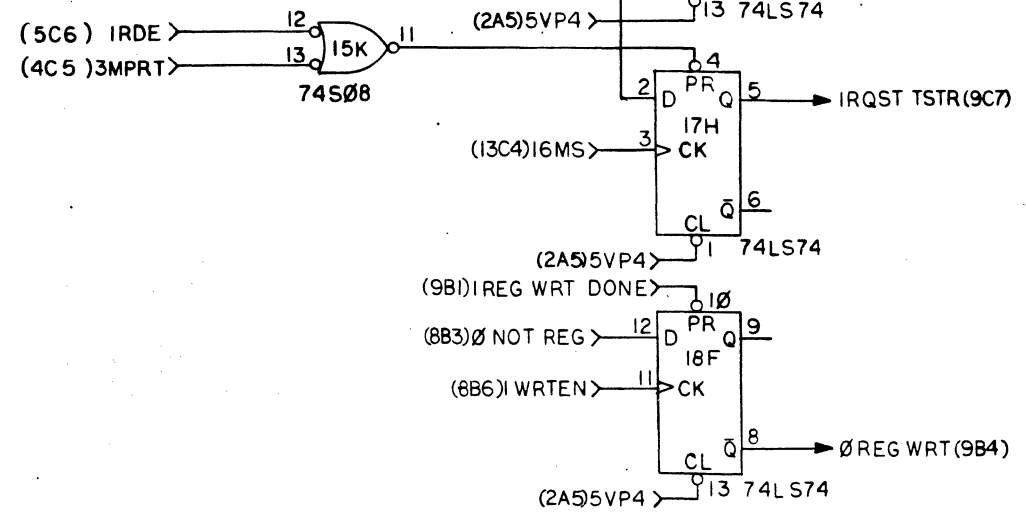
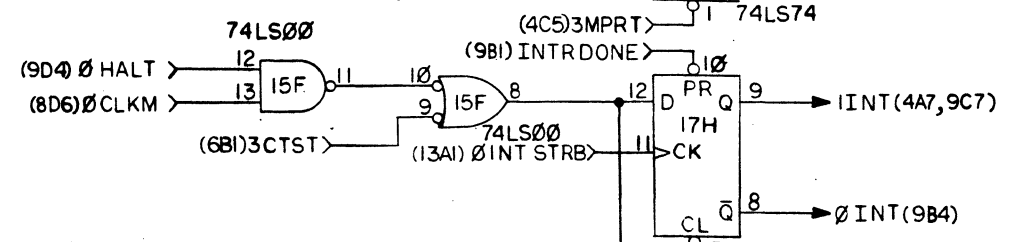
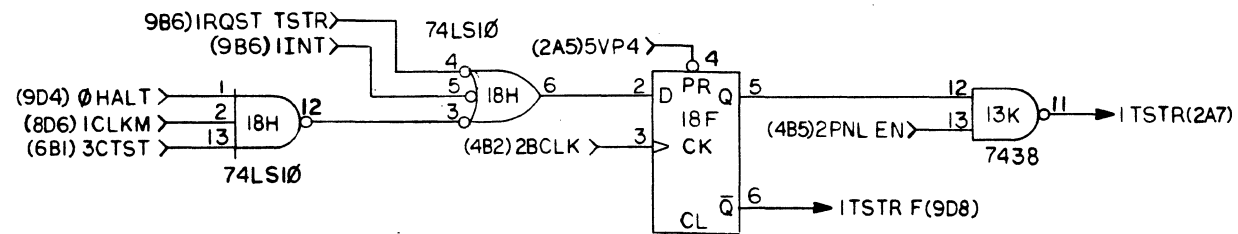
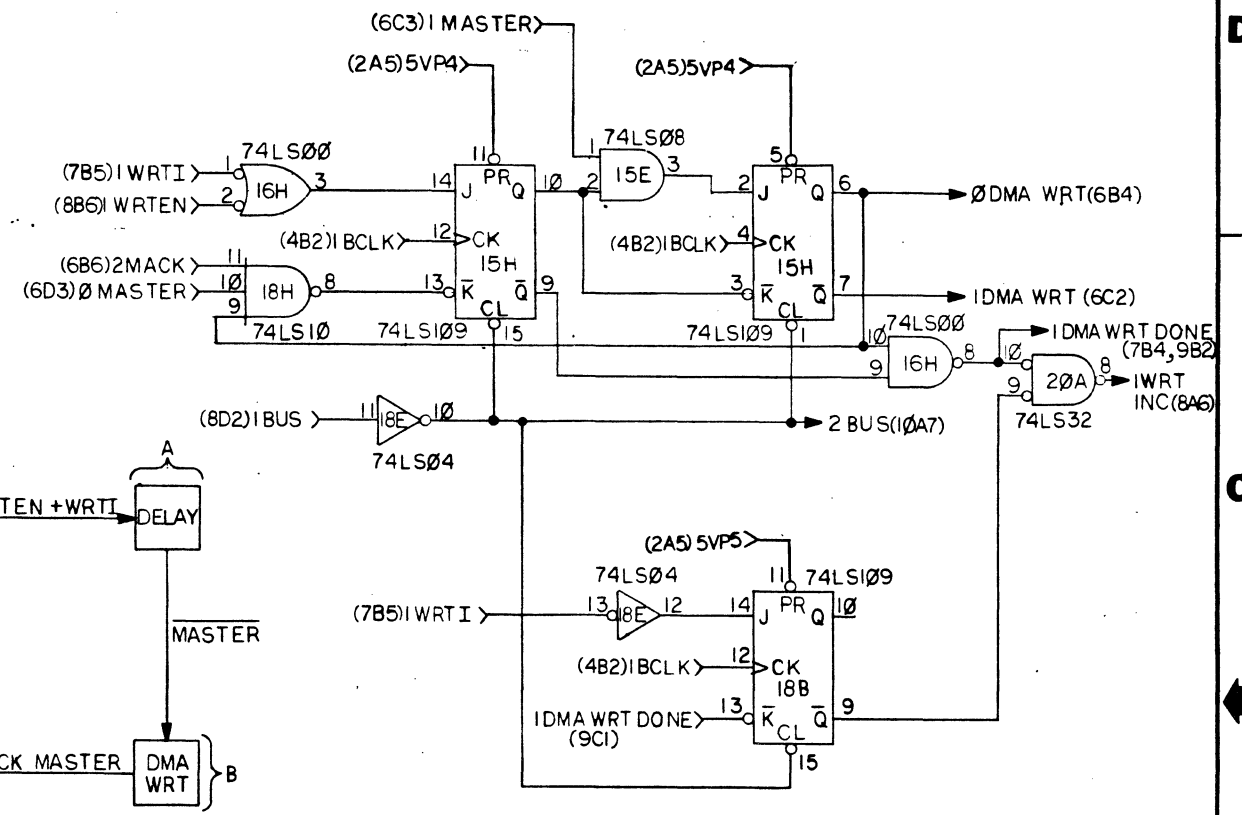


THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION AND IS UNCLASSIFIED BY DATE 08-28-2014 UNDER EXECUTIVE ORDER 13526	SIZE	DWG NO	REV
	D	121219	03
DO NOT SCALE DWG		SHEET 8	

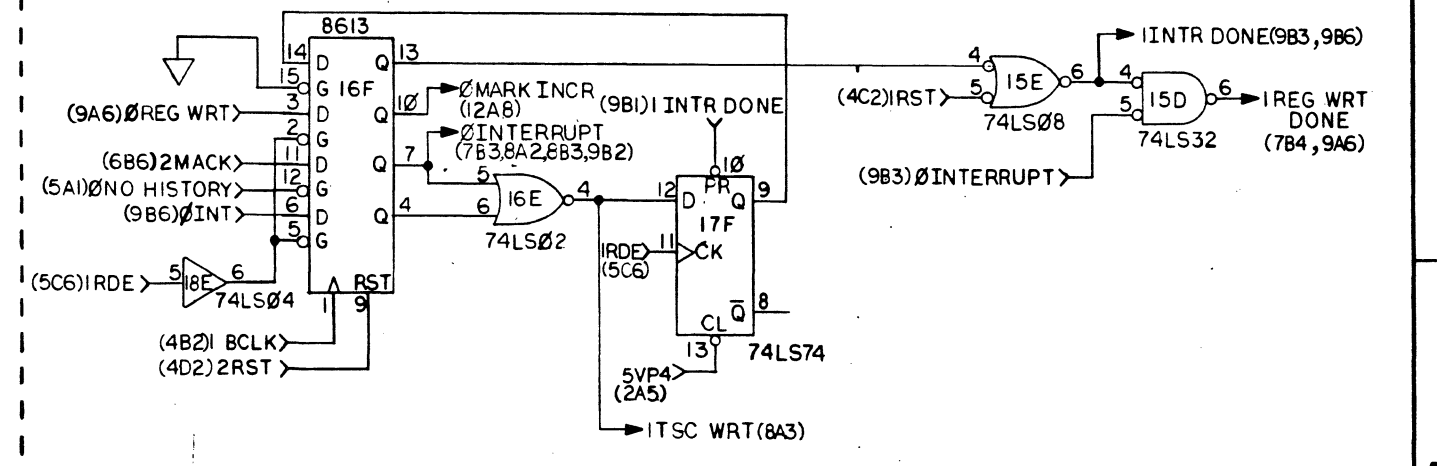
### HALT/STEP SEQUENCER



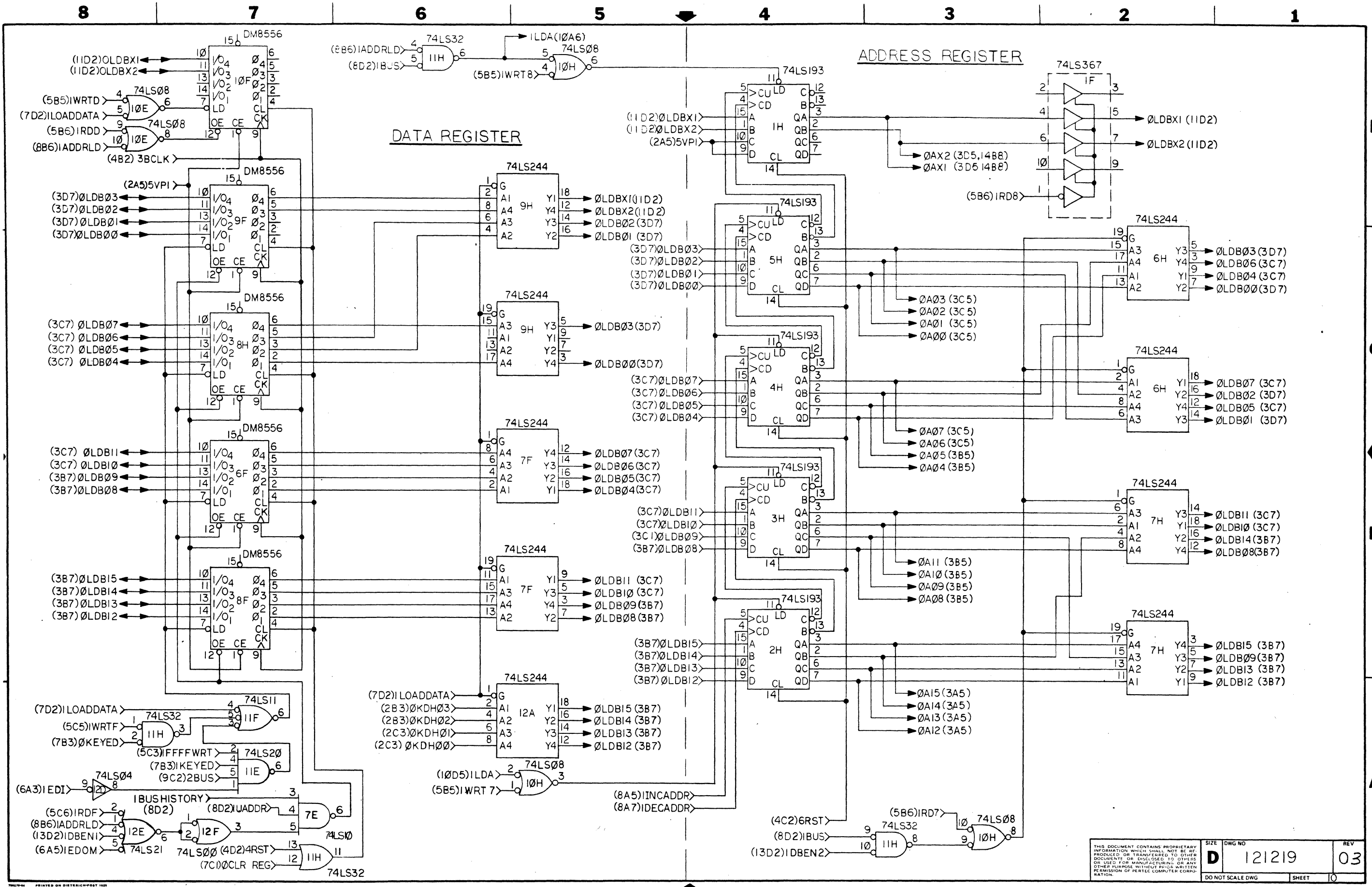
### DMA WRITE SEQUENCER



### REGISTER WRITE AND SYNC INTERRUPT SEQUENCER



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		D	121219	03
DO NOT SCALE DWG			SHEET 9	



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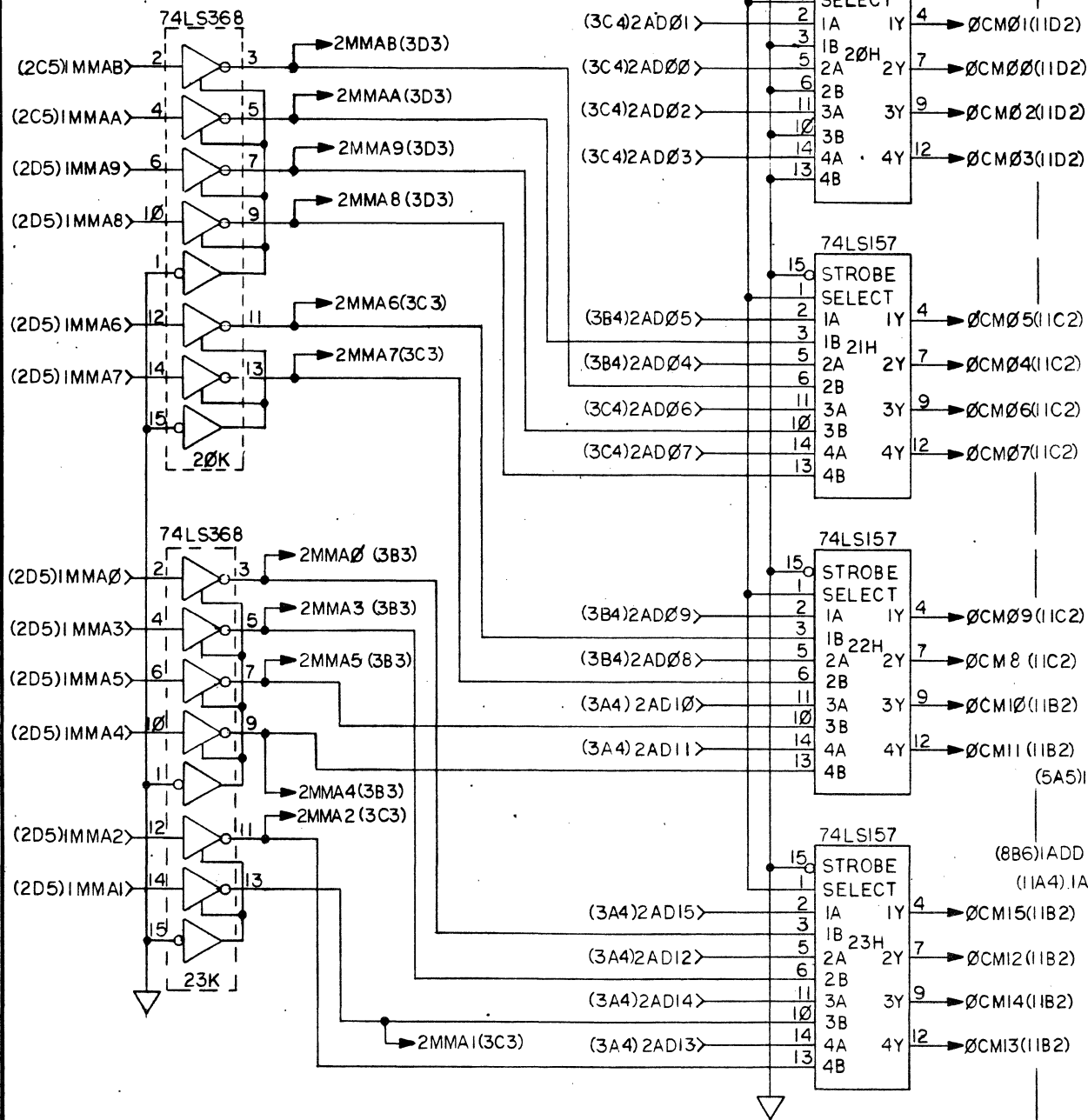
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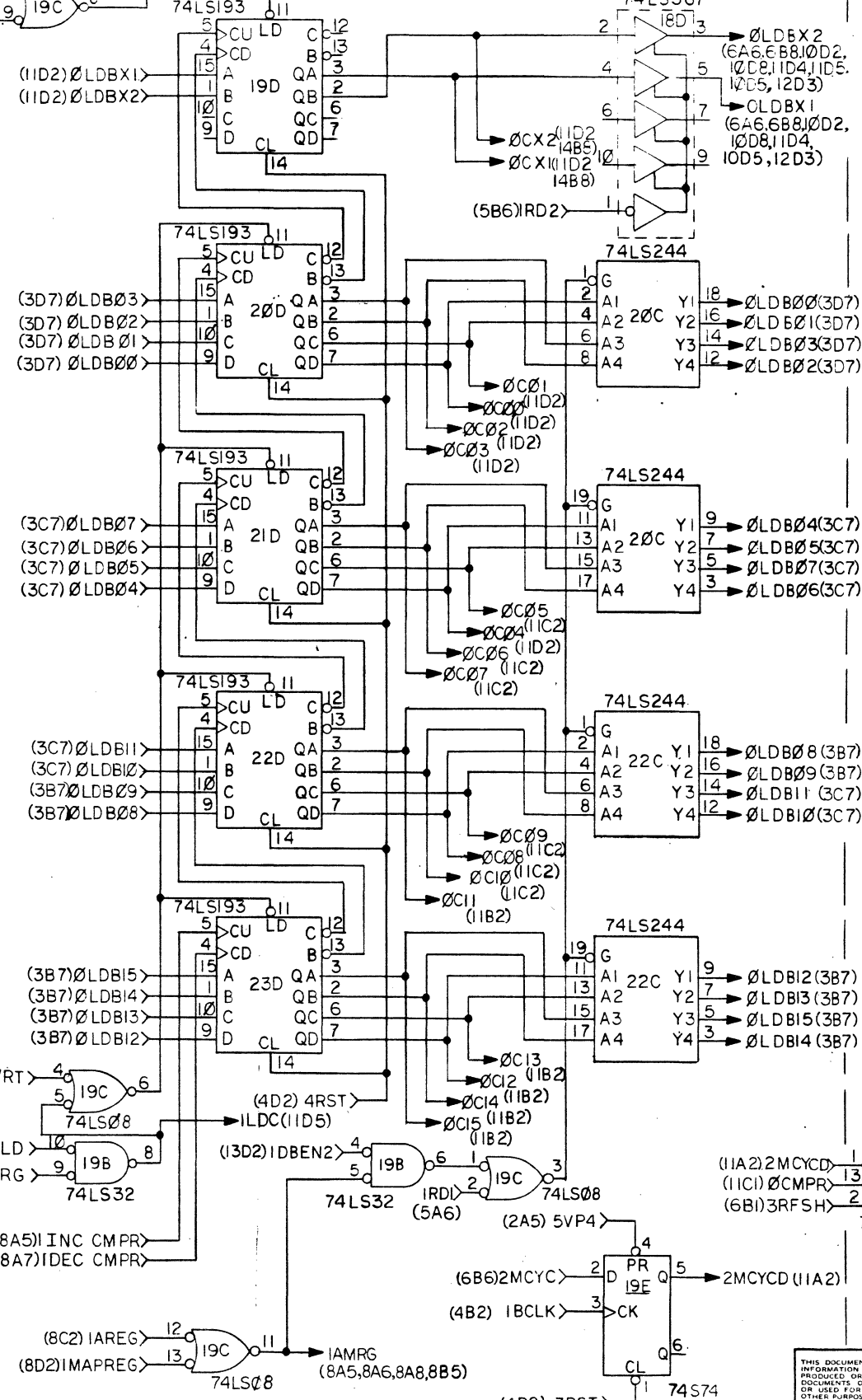
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1

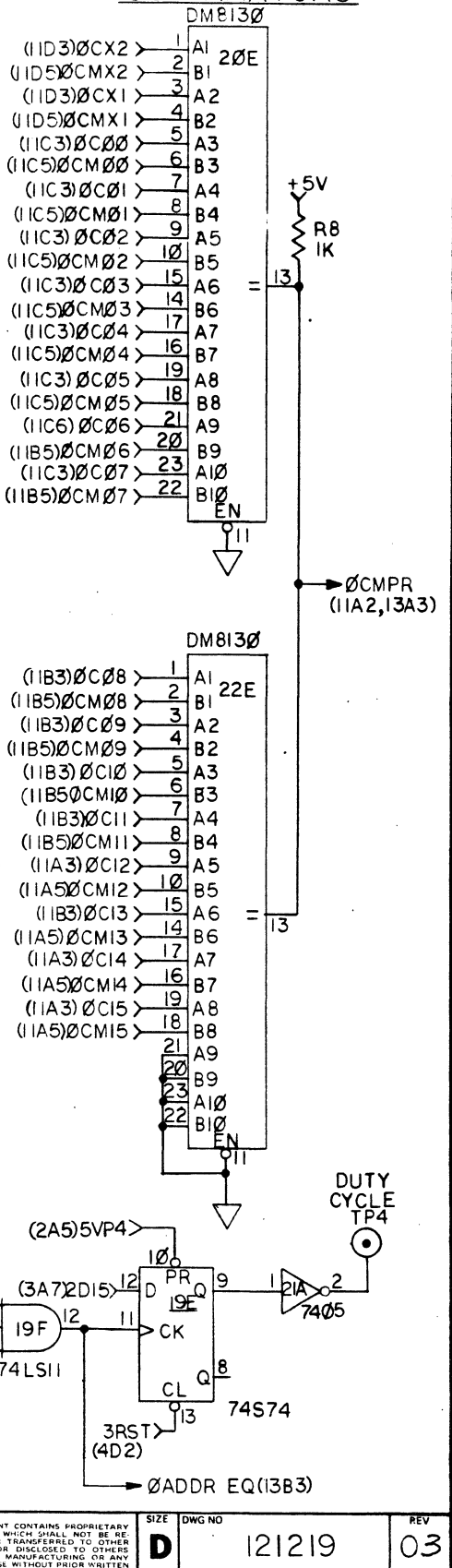
### MICROCODE ADDRESS RECEIVERS

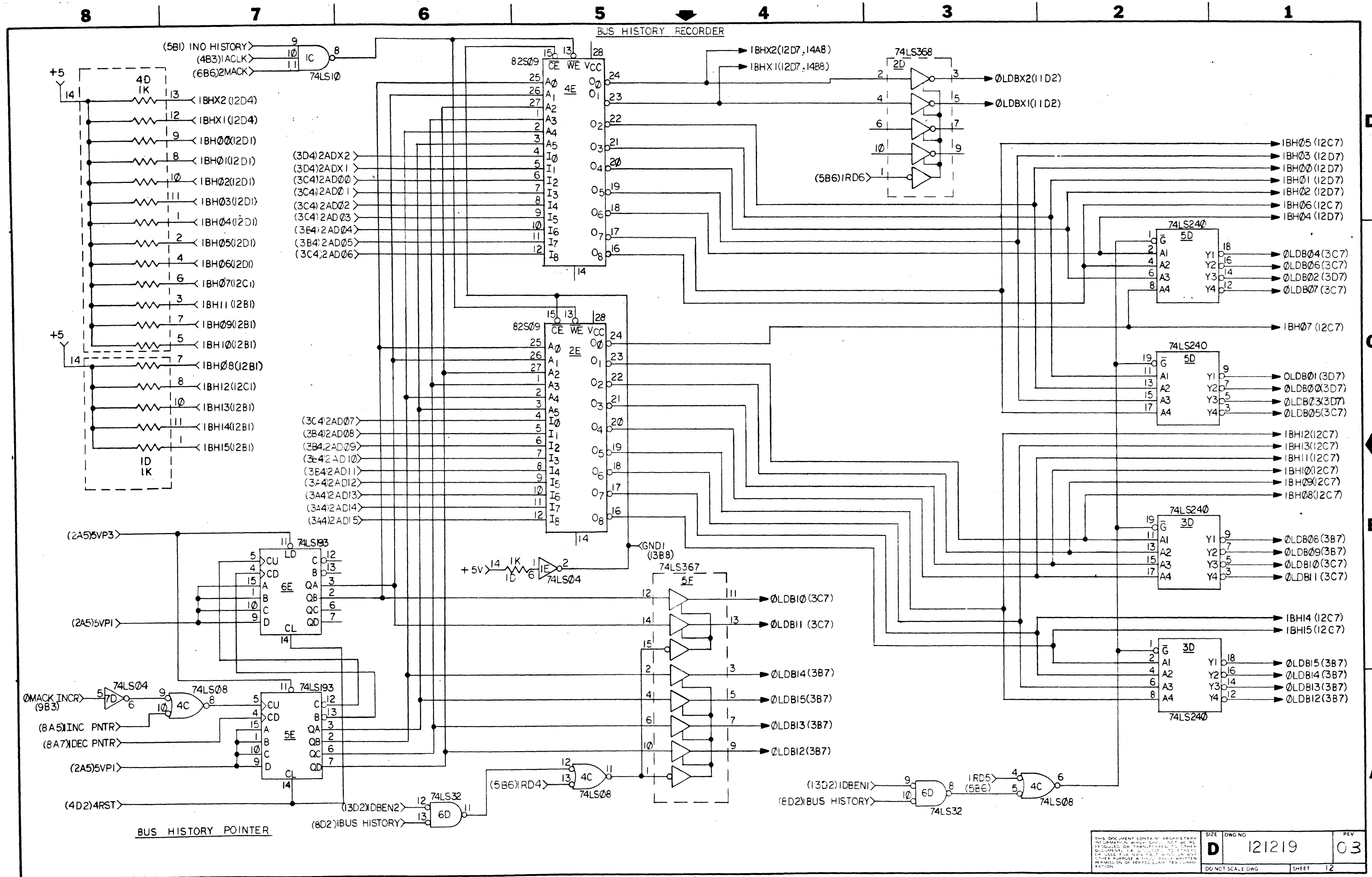


### COMPARE REGISTER

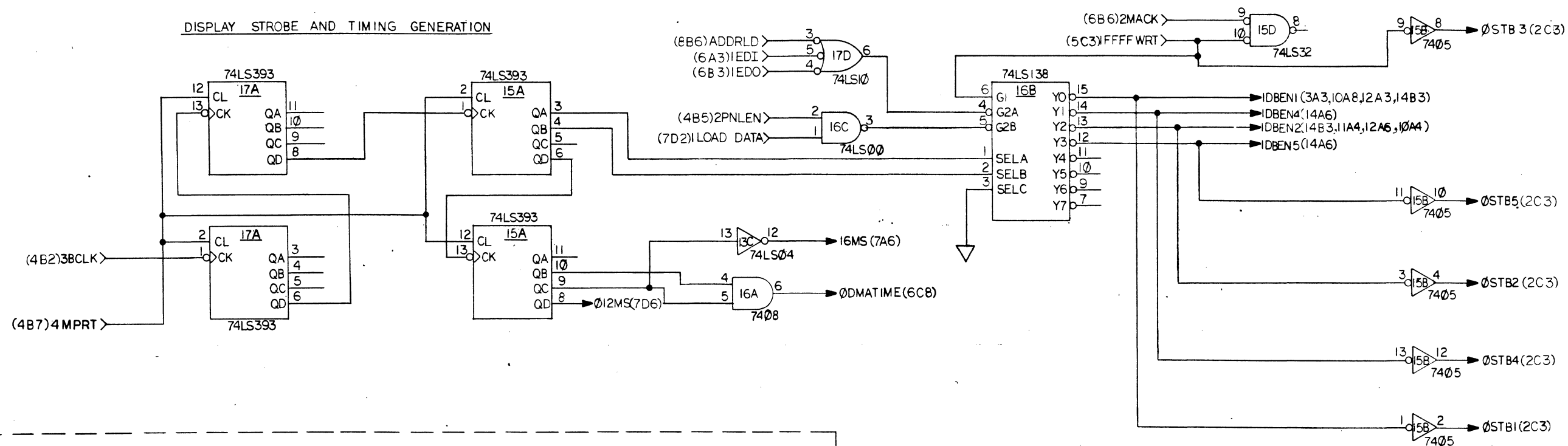


### COMPARATORS

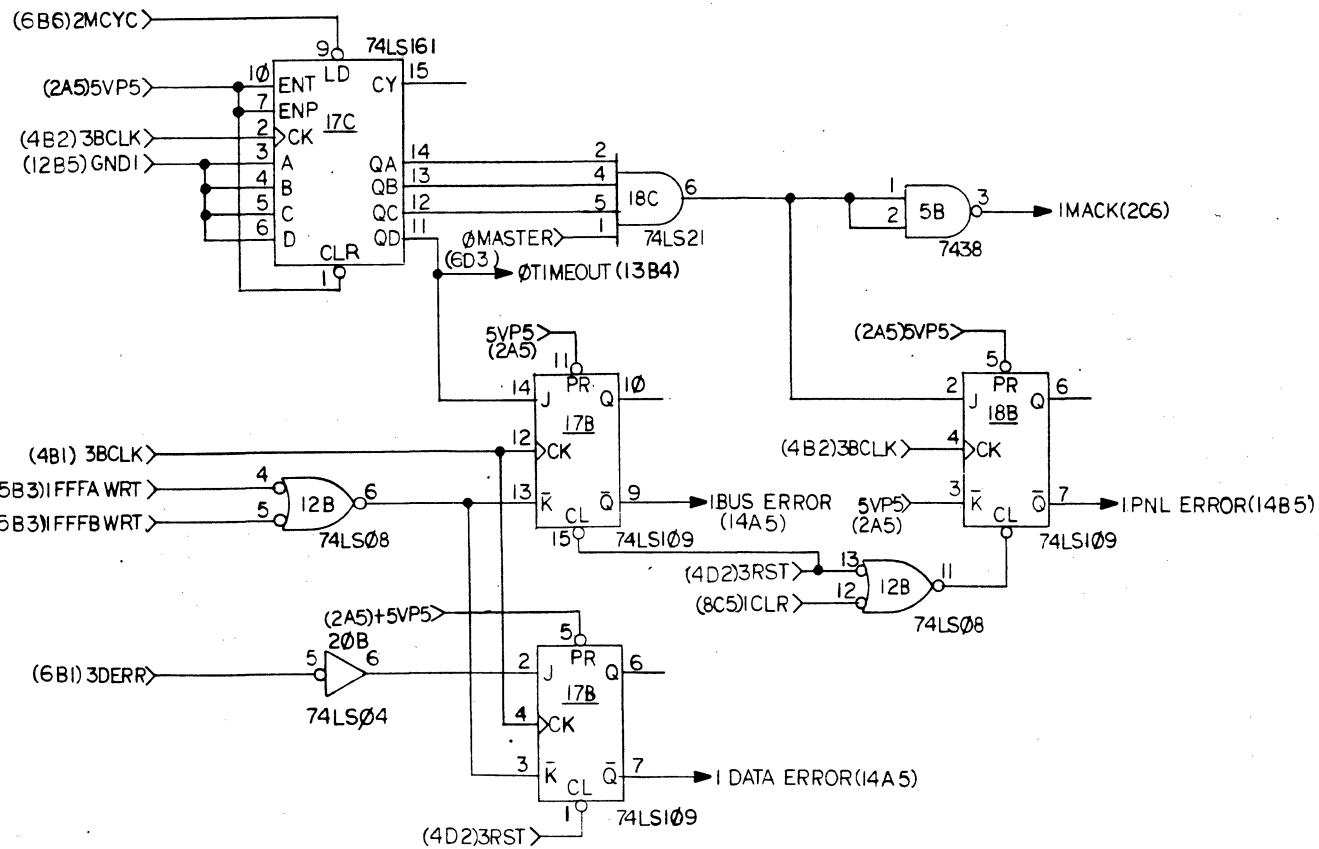




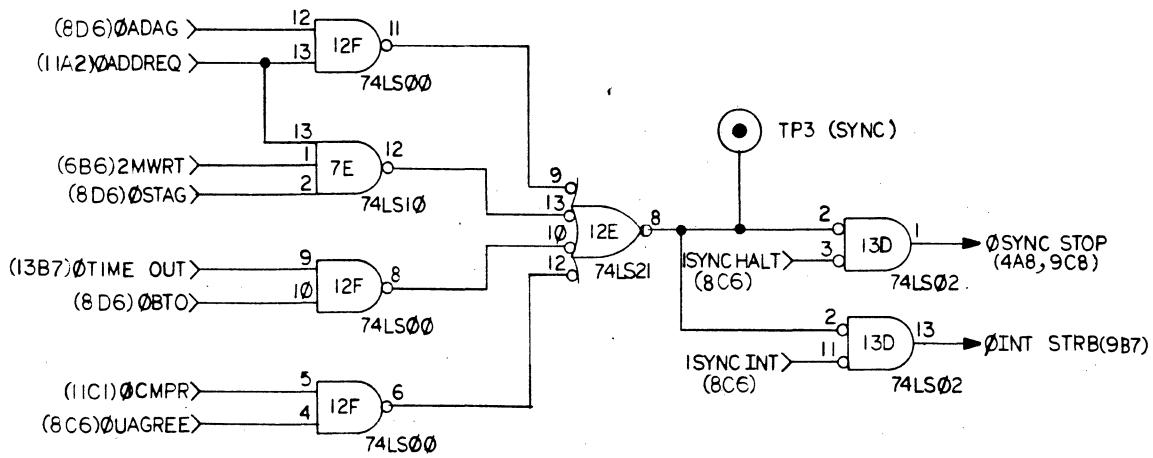
DISPLAY STROBE AND TIMING GENERATION



ERROR DETECTION



SYNC CONDITION DETECTION



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	D	121219	03
DO NOT SCALE DWG		SHEET 13	



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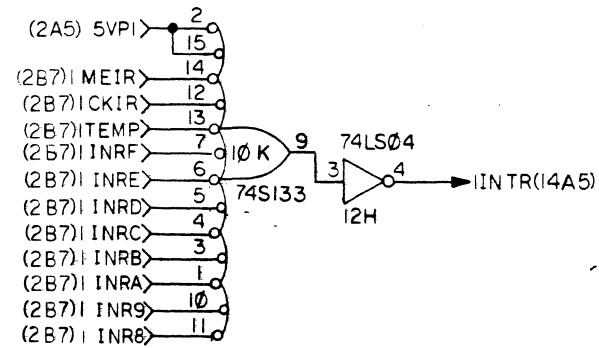
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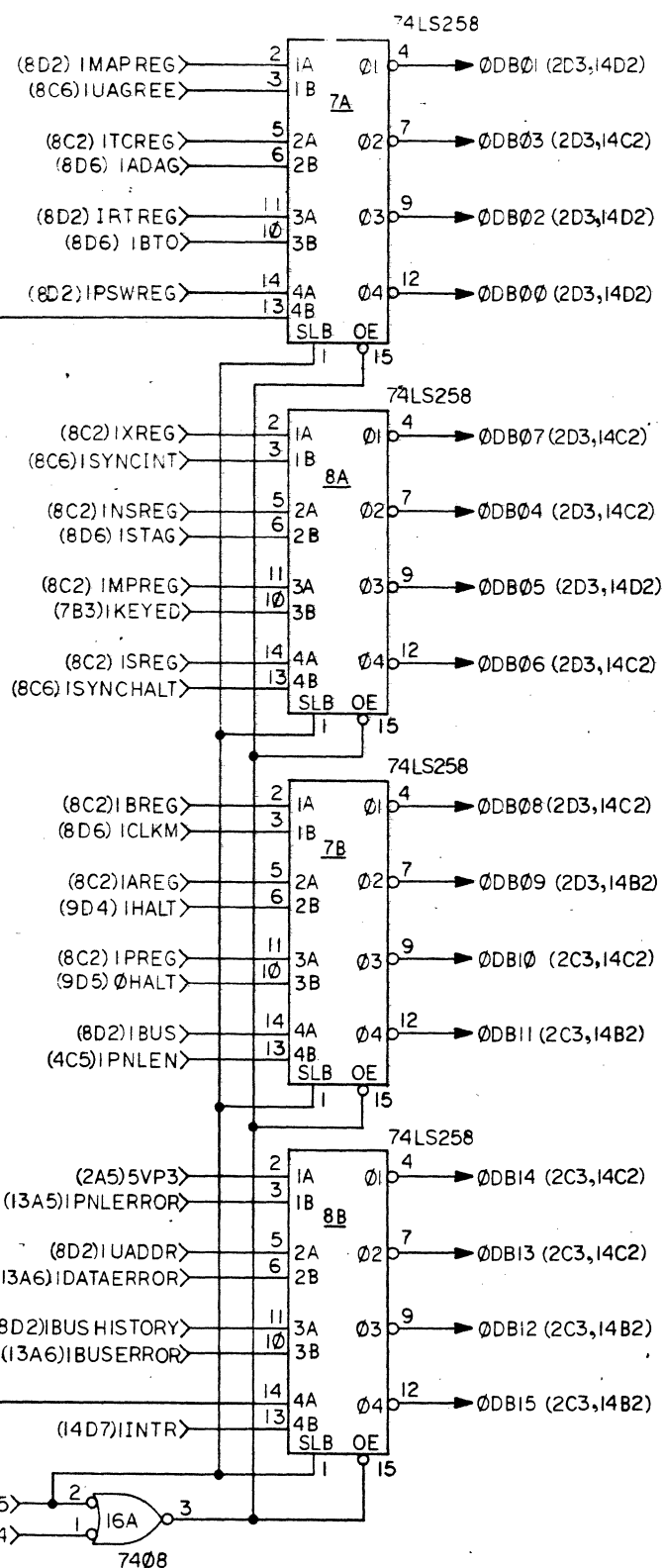
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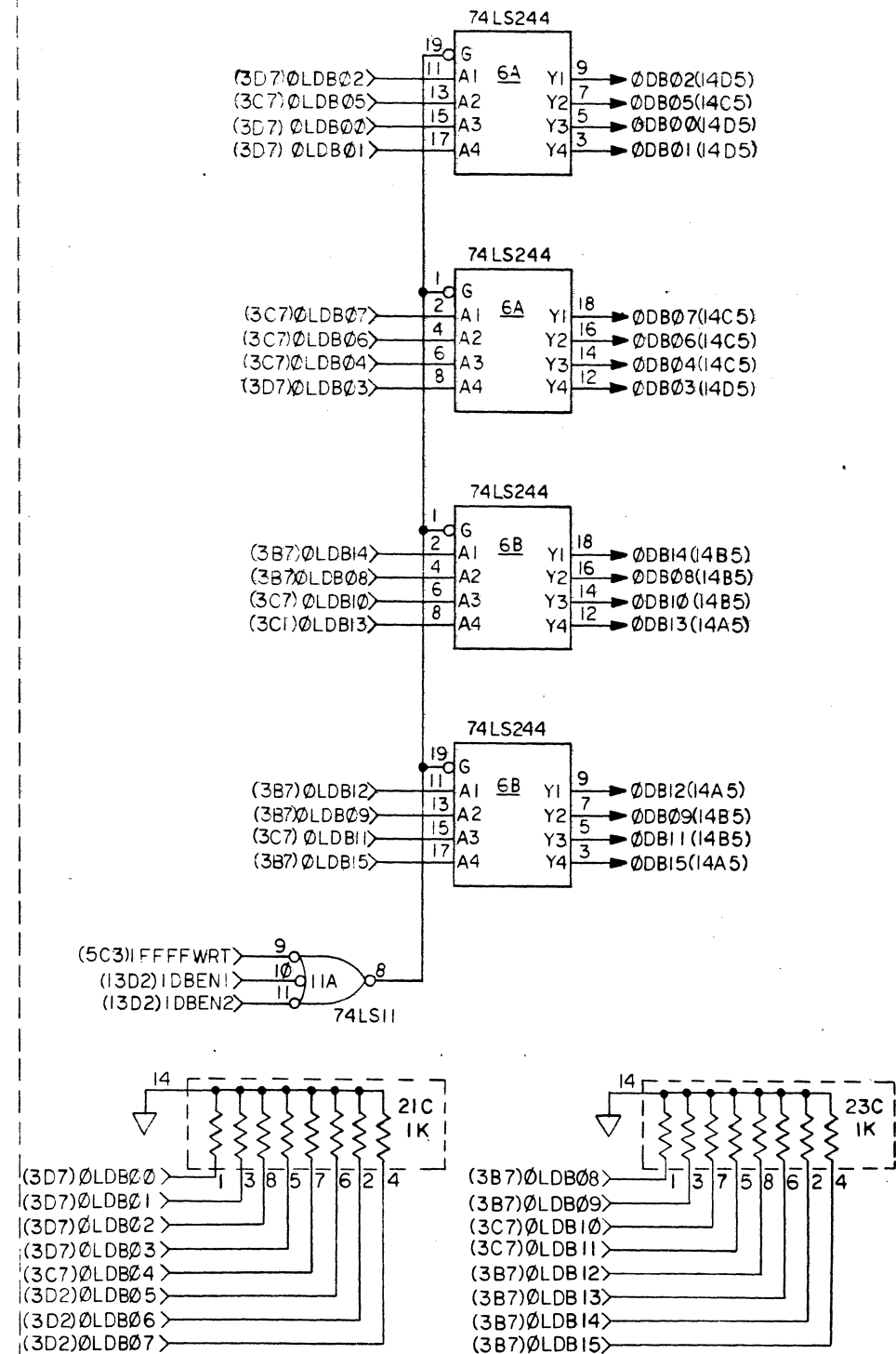


BUS INTERRUPT MONITOR

DISPLAY MUX



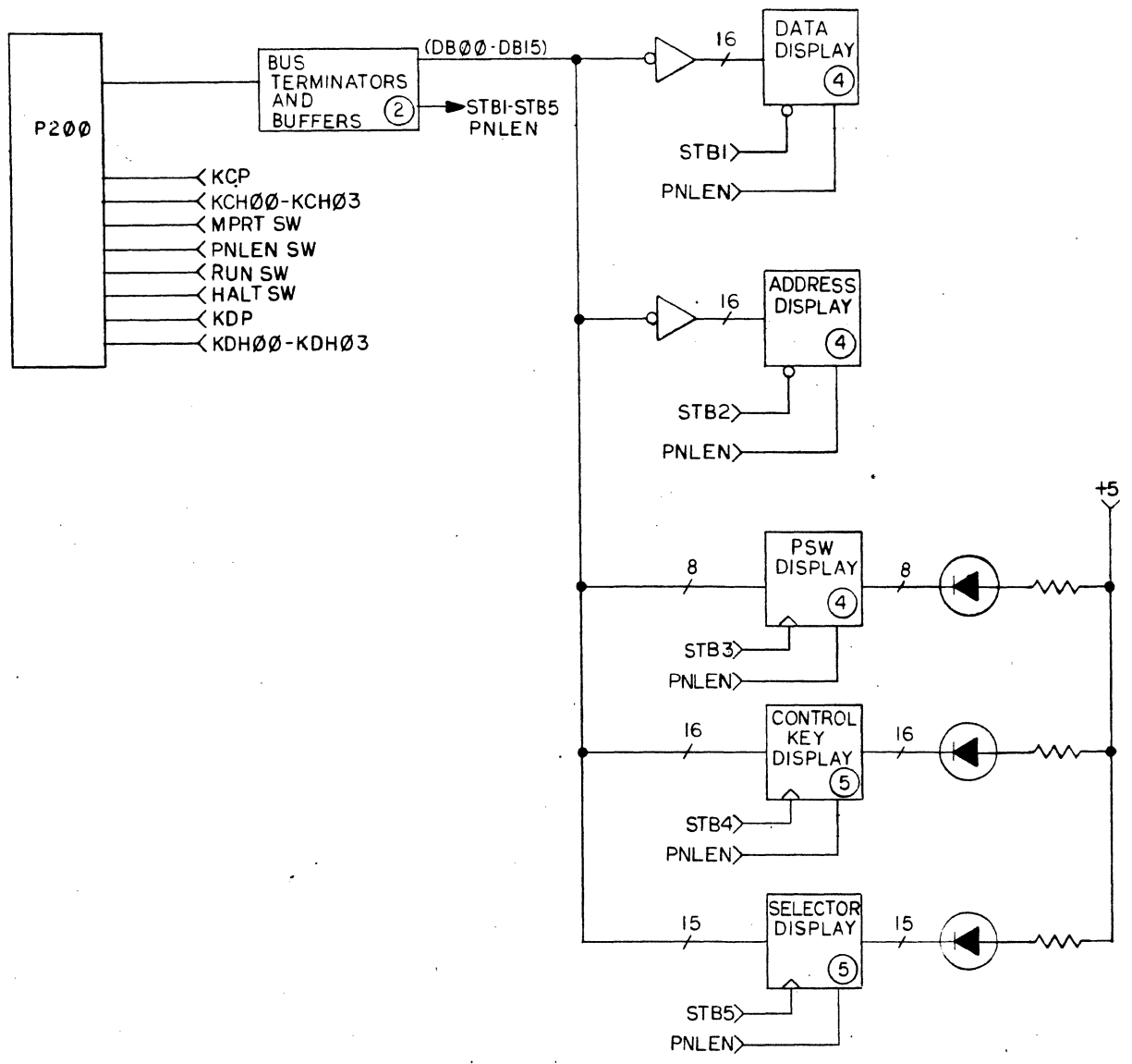
LOCAL BUS DISPLAY DRIVERS



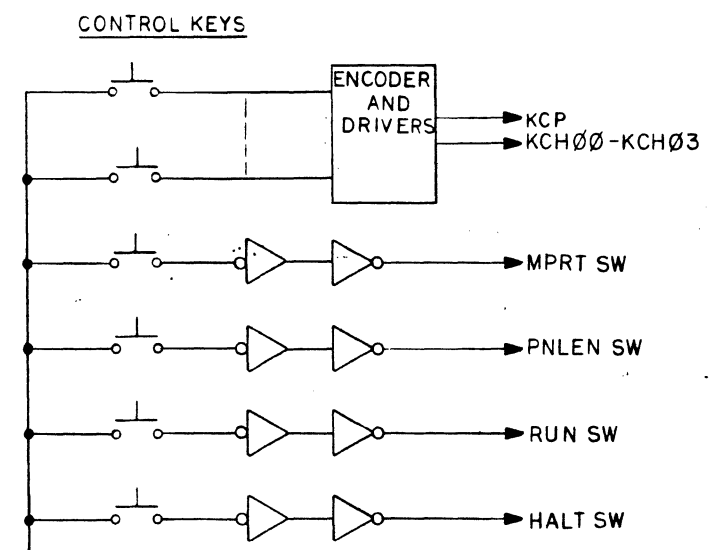
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		D	121219	03
DO NOT SCALE DWG			SHEET 14	

8 7 6 5 4 3 2 1

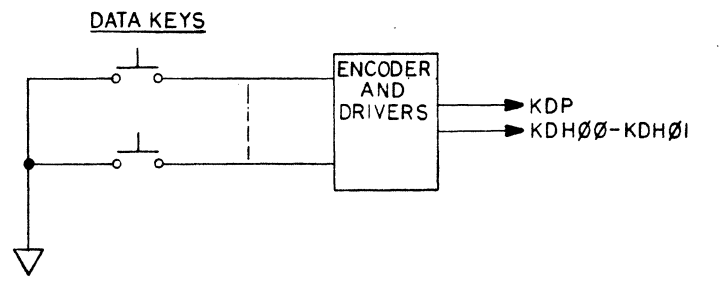
REVISIONS				
SYM	DESCRIPTION	DRFTG	APPROVED	DATE
01	RELEASE PER DRC	240-79	CB	4/22/79
02	INCORP DCO 10297	BM	CB	3/17/80
03	CODE 10 REL W/0 CHANGES PER DCO 10498	BM	CB	4/1/80



**CONTROL KEY ENCODER (3)**



**DATA KEY ENCODER (3)**



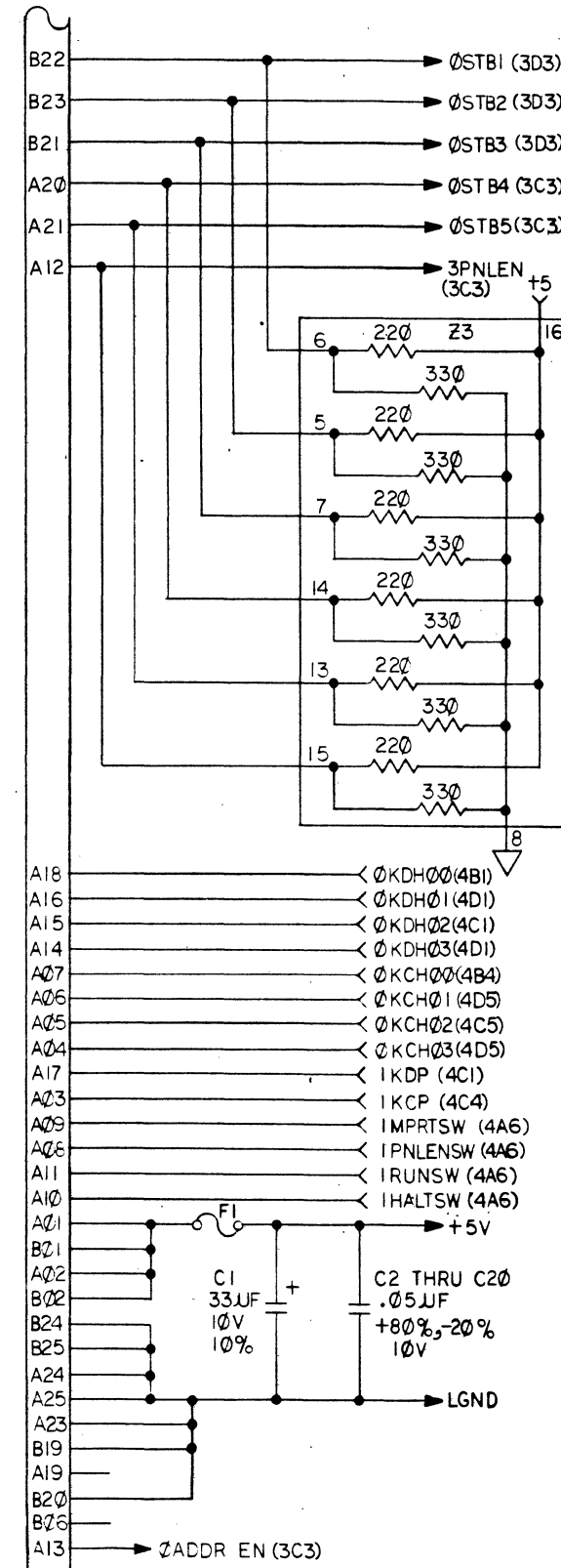
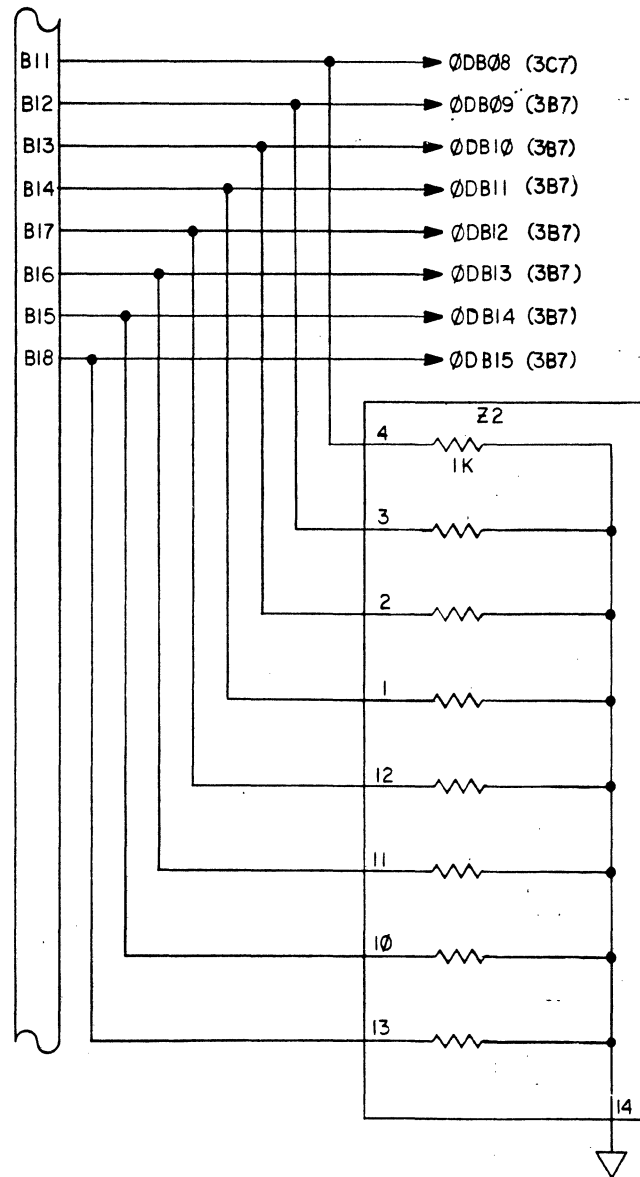
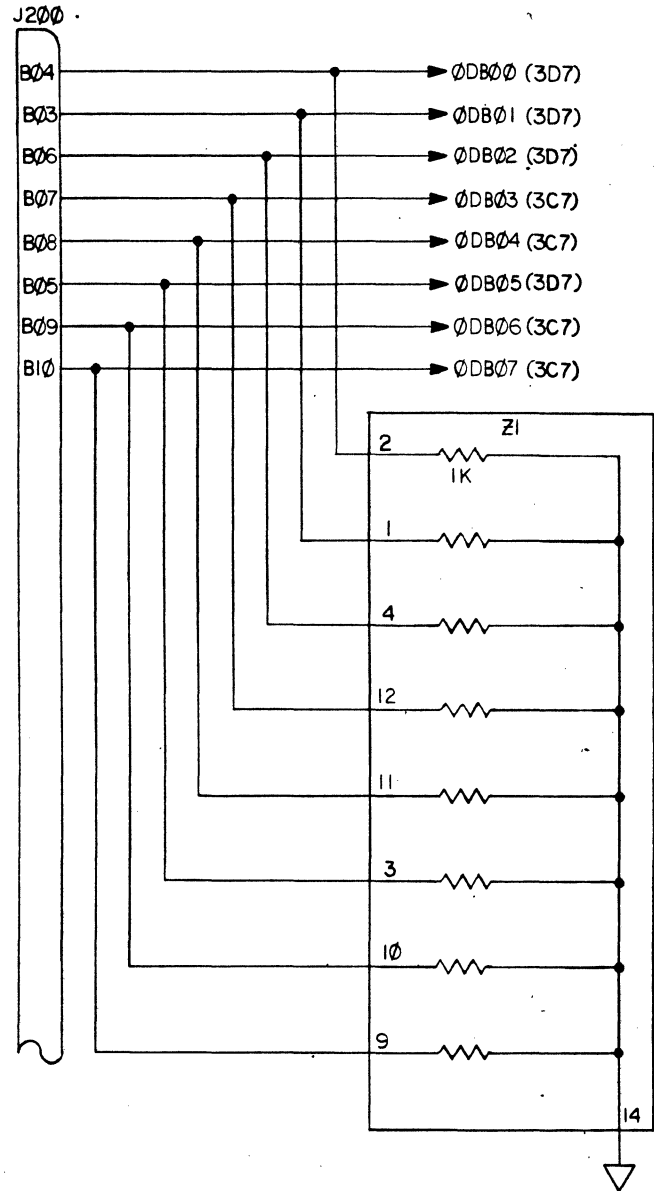
NOTE: UNLESS OTHERWISE SPECIFIED

PANEL LOGIC BLOCK DIAGRAM

SHEET	REV	REV STATUS	SHEET	REV	1	2	3	4	5	6
		OF SHEETS			03	03	03	03	03	03
DRAWN		H. ATWELL		3-1-79						
CHECK		M. B. B.		8-6-79						
APPR		H. B. B.		8-6-79						
RELEASE		G. B. B.		8-6-79						
TITLE										
SCHEM. DISPLAY PANEL LOGIC										
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261163			XL40		D		121220		03	
NEXT ASSY			QTY		MODEL		QTY		SCALE	
APPLICATION									DO NOT SCALE DWG	
SHEET 1 OF 6										



PANEL INTERFACE CONNECTOR



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	D	121220	03
DO NOT SCALE DWG		SHEET 2	

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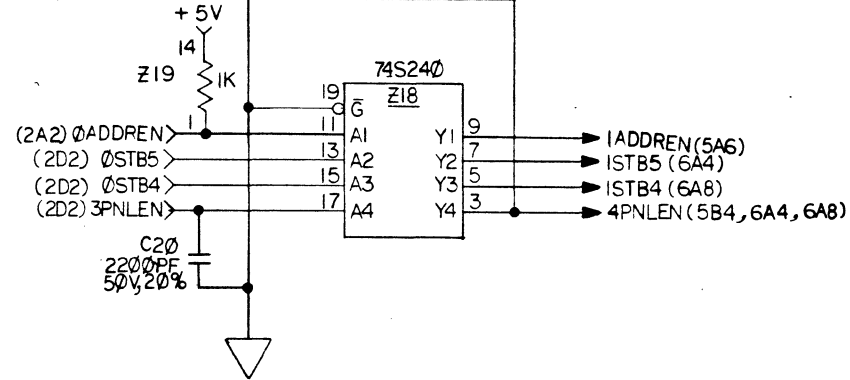
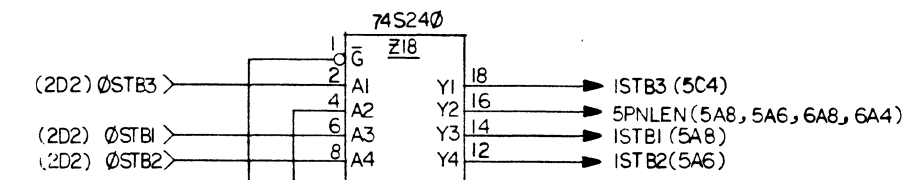
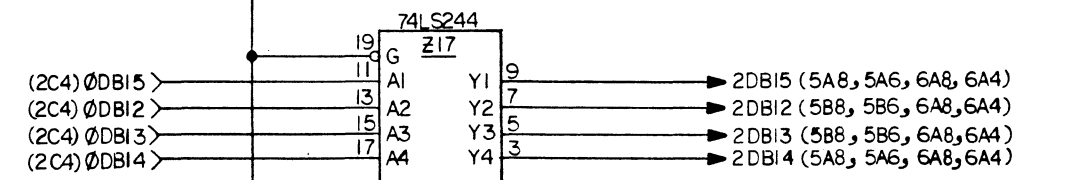
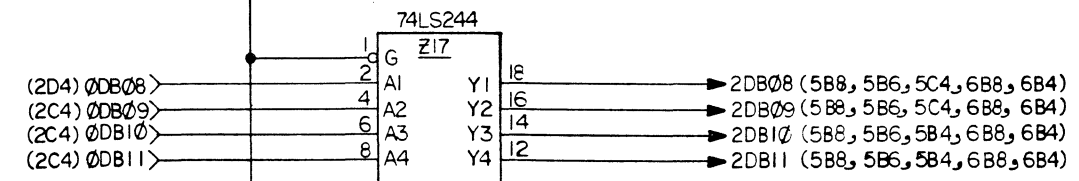
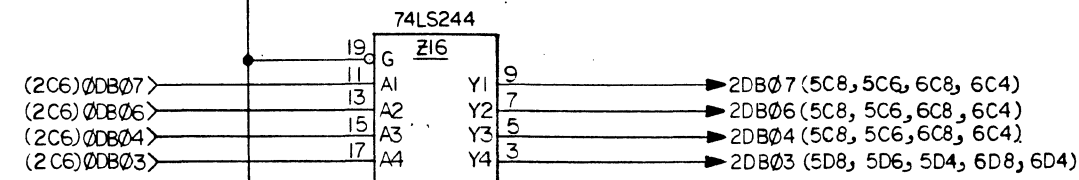
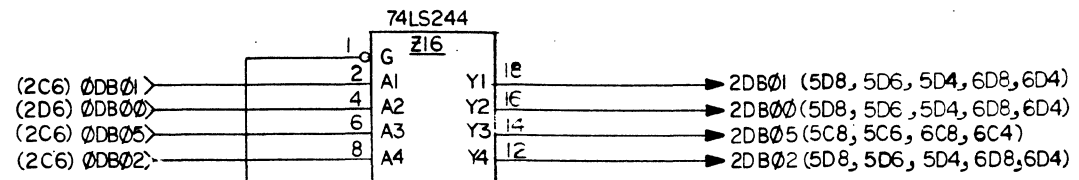
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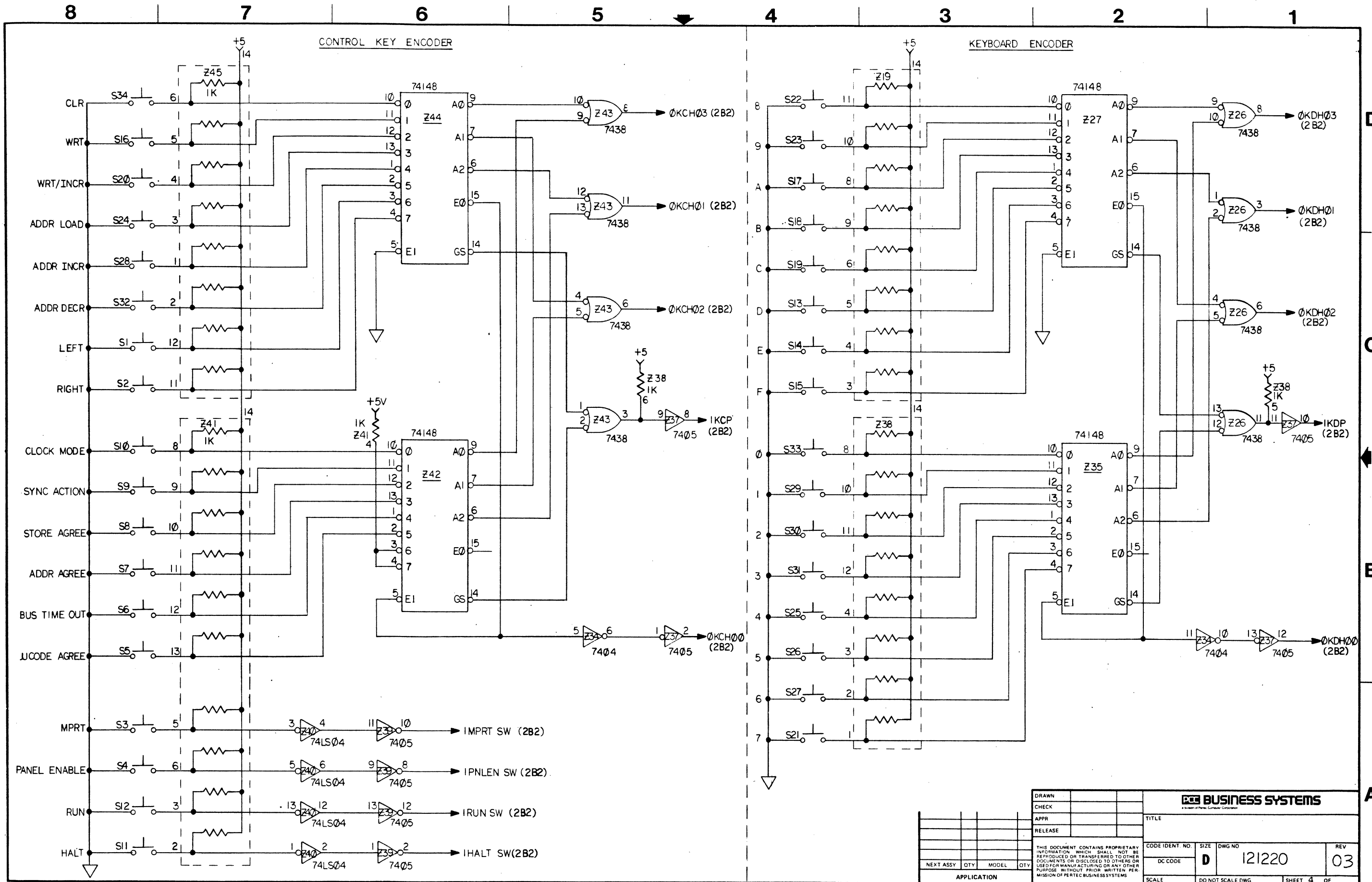
2

1

INTERFACE BUFFERS



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	D	121220	05
DO NOT SCALE DWG		SHEET 3	



DRAWN				PERC BUSINESS SYSTEMS			
CHECK				TITLE			
APPR				CODE IDENT. NO.			
RELEASE				SIZE		DWG NO.	
THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR TRANSFERRED TO OTHER DOCUMENTS OR DISCLOSED TO OTHERS OR USED FOR MANUFACTURING OR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN PERMISSION OF PERC BUSINESS SYSTEMS				DC CODE		REV	
NEXT ASSY		QTY	MODEL	D		121220	
APPLICATION		QTY		SCALE		03	
				DO NOT SCALE DWG		SHEET 4 OF	

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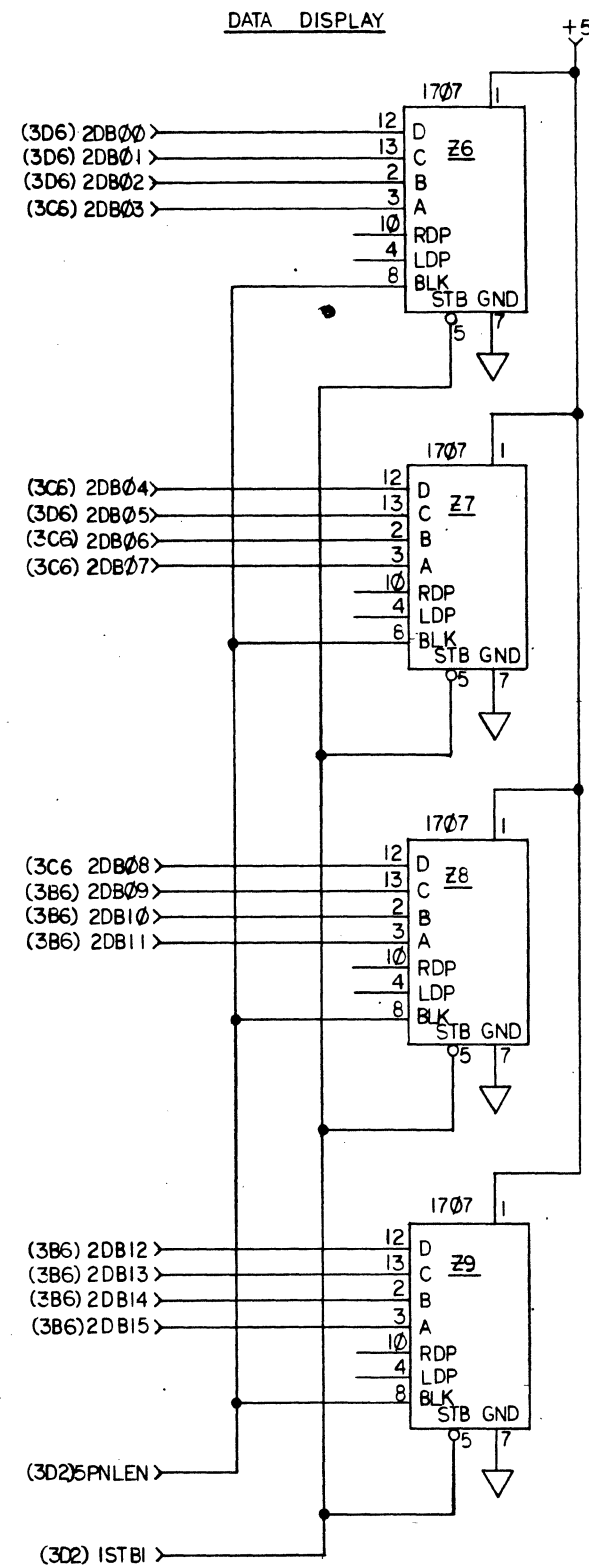
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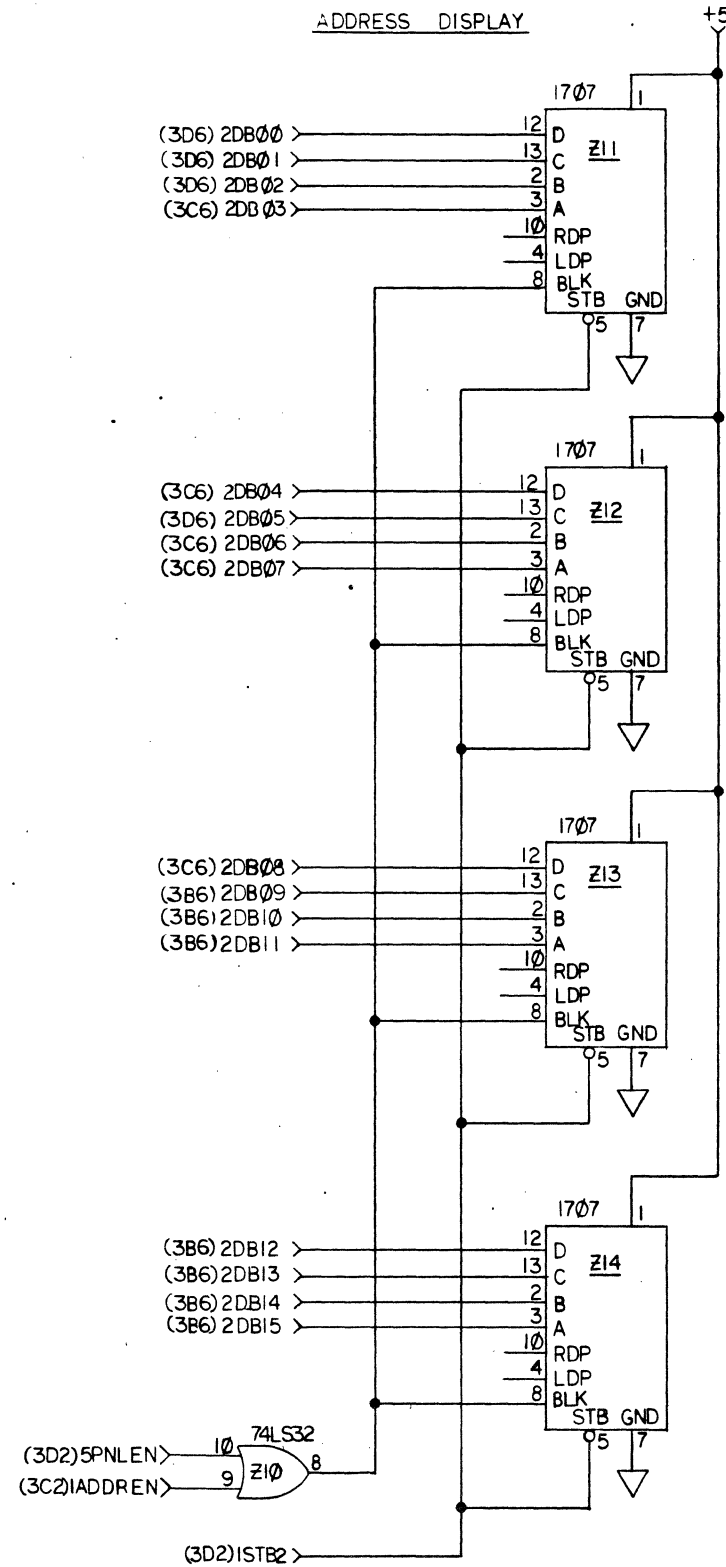
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REVISIONS				
SYM	DESCRIPTION	DRFTG	APPROVED	DATE
	RELEASE PER DRO			

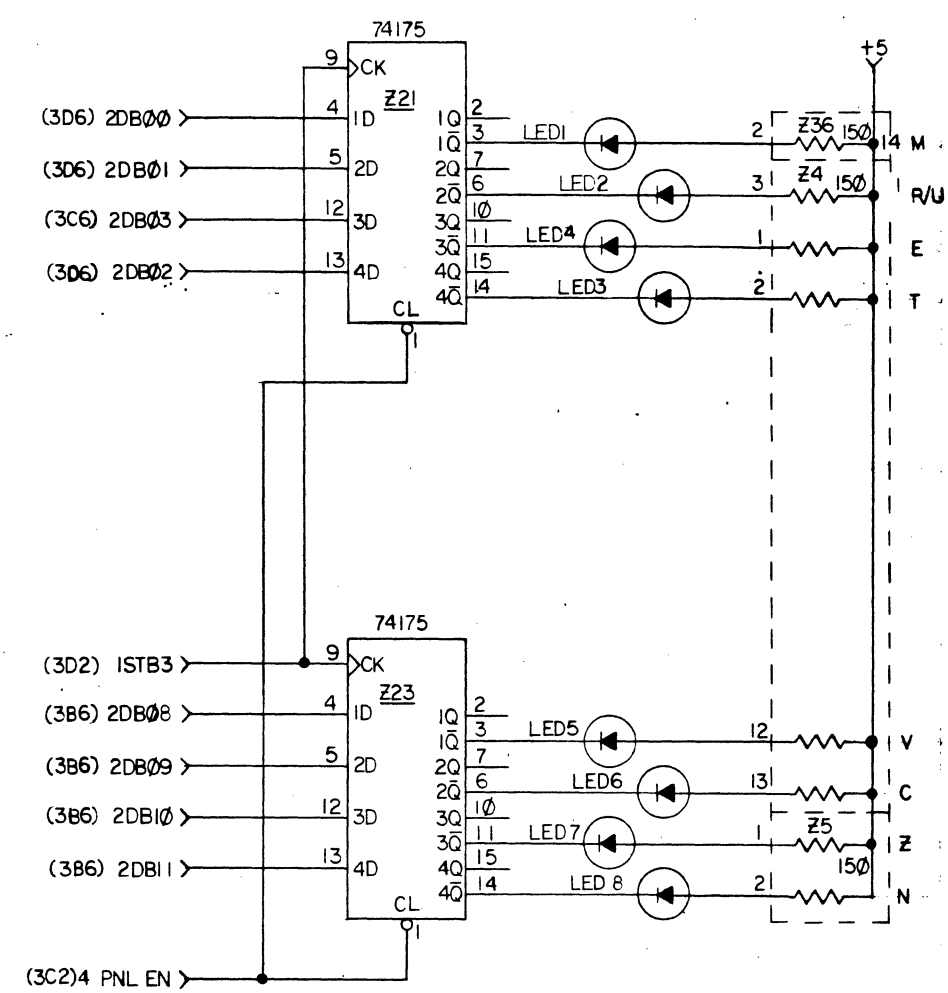
DATA DISPLAY



ADDRESS DISPLAY



PSW DISPLAY



DRAWN		BUSINESS SYSTEMS	
CHECK		TITLE	
APPR		CODE IDENT. NO.	REV
RELEASE		DC CODE	
<small>THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR TRANSFERRED TO OTHER DOCUMENTS OR DISCLOSED TO OTHERS OR USED FOR MANUFACTURING OR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN PERMISSION OF PERTEC BUSINESS SYSTEMS</small>		SIZE	DWG NO
<small>APPLICATION</small>		D	121220
<small>SCALE</small>		DO NOT SCALE DWG	SHEET 5 OF

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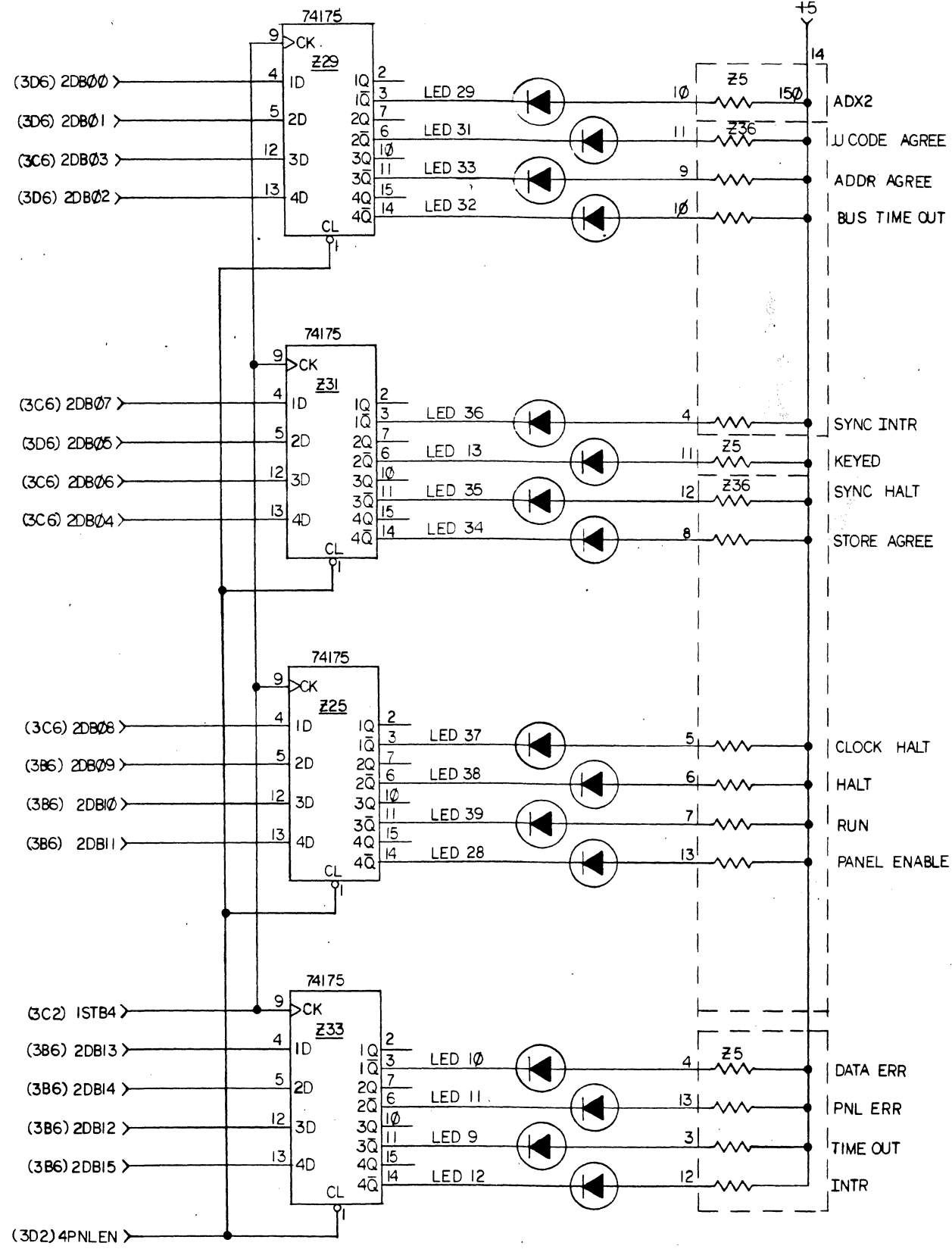
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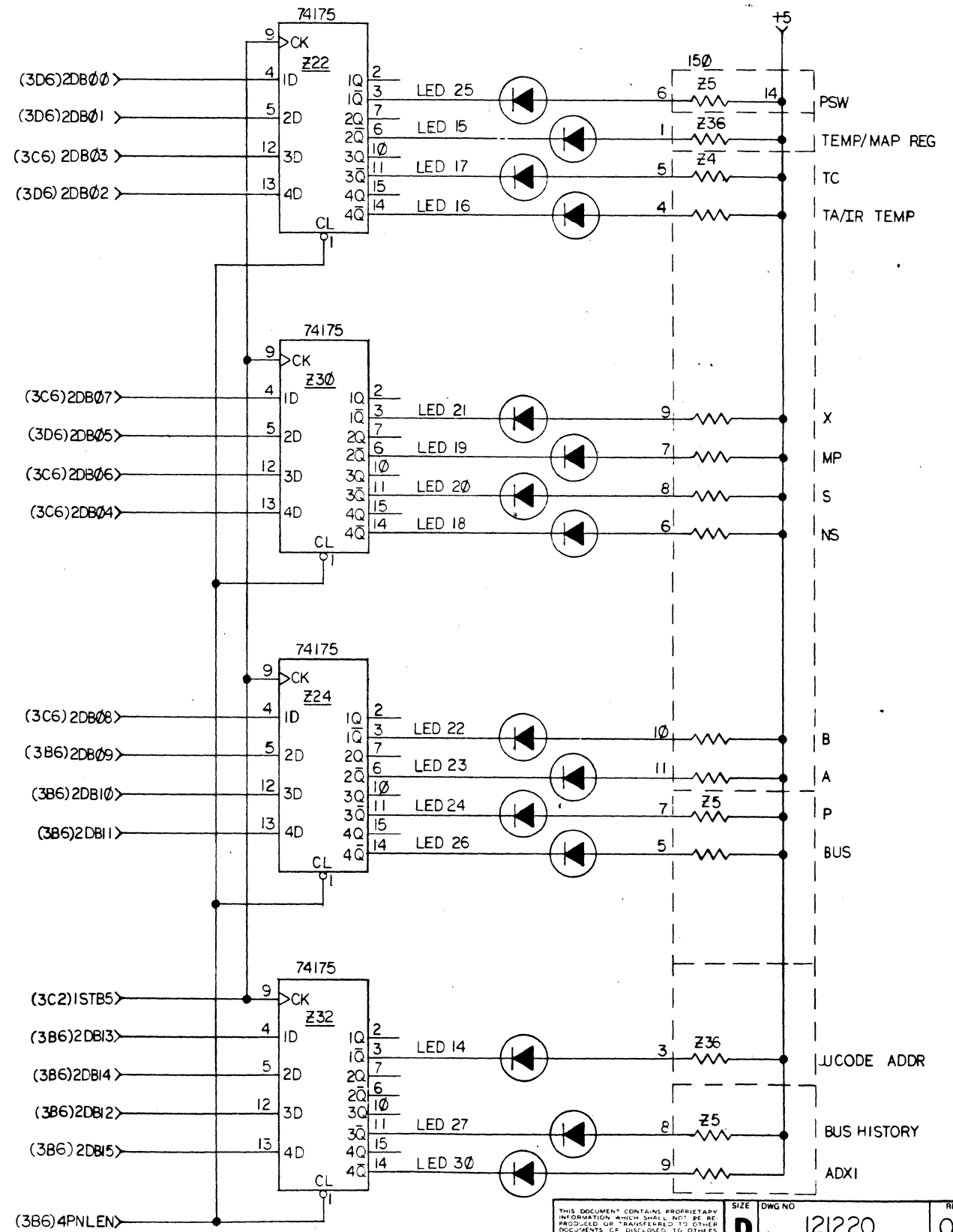
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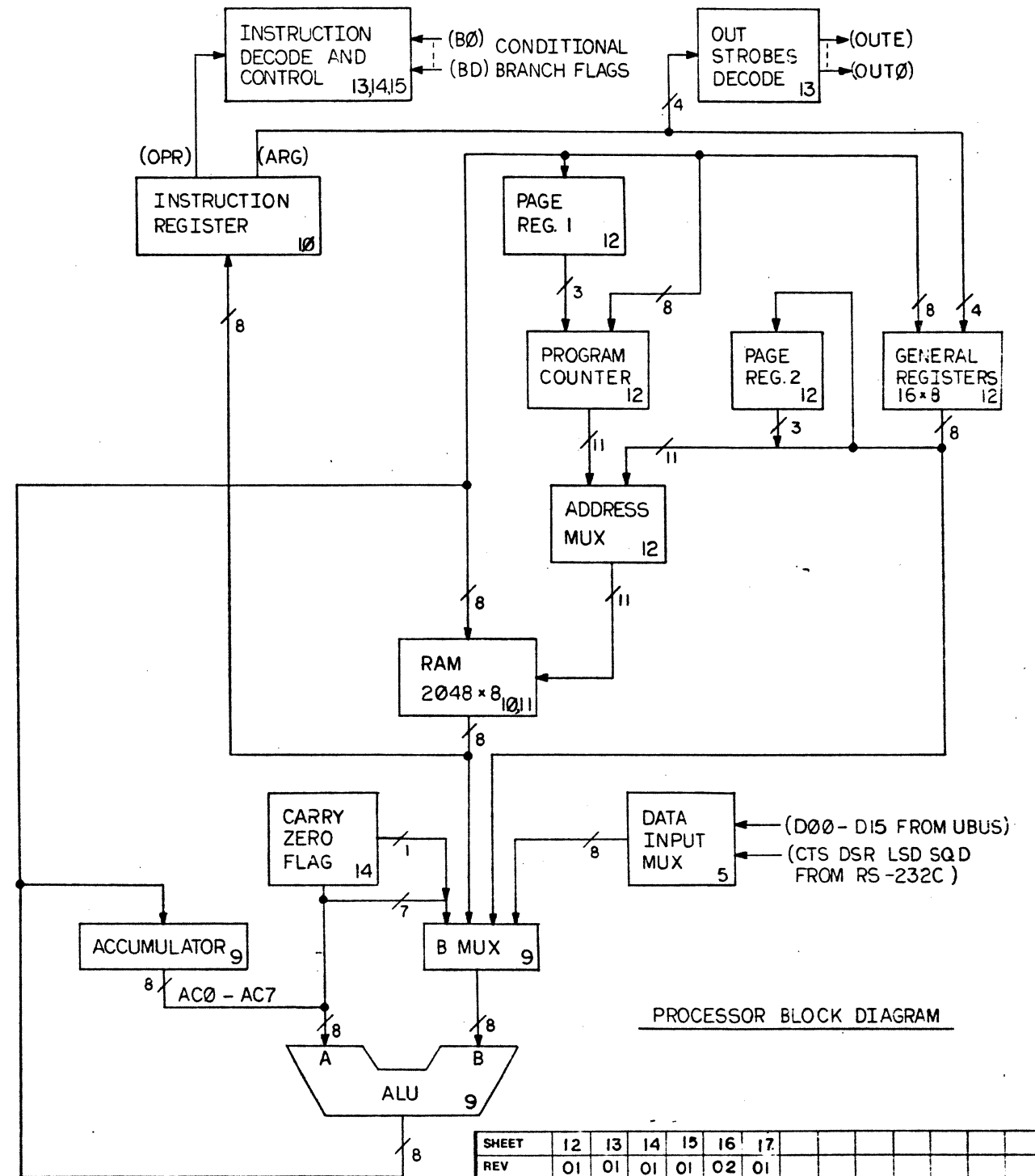
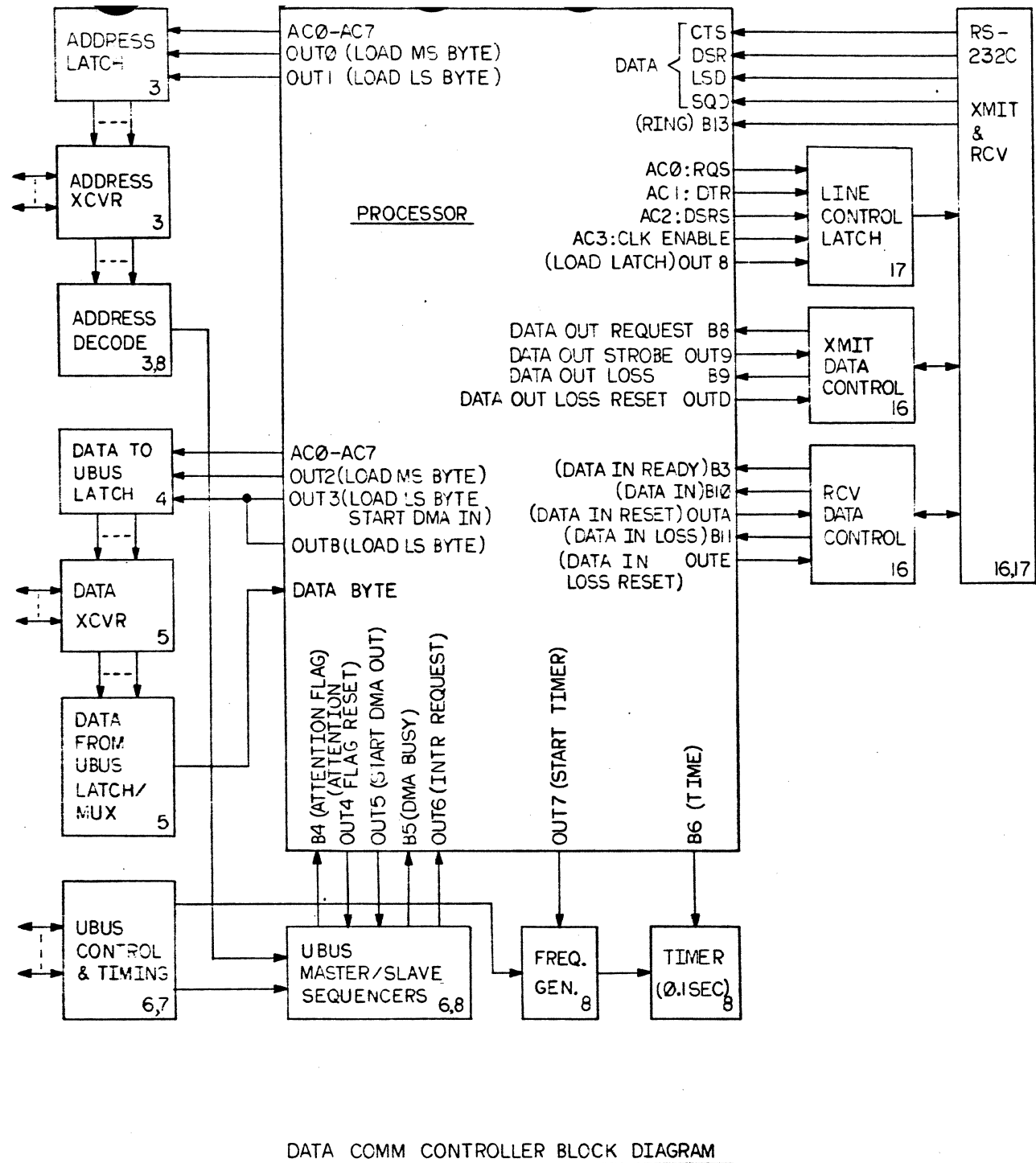
CONTROL KEY DISPLAY



SELECTOR DISPLAY



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	D	121220	03
DO NOT SCALE DWG		SHEET	6



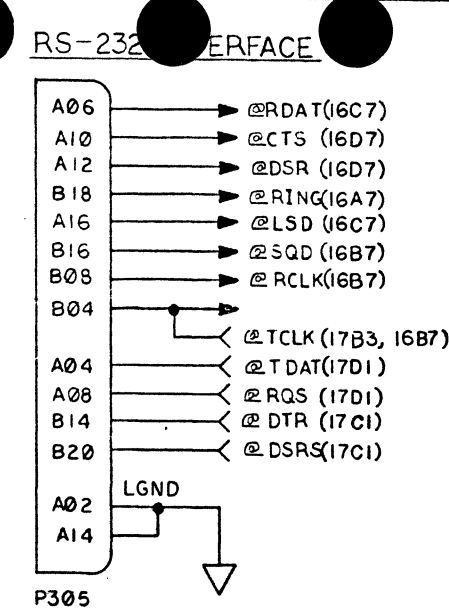
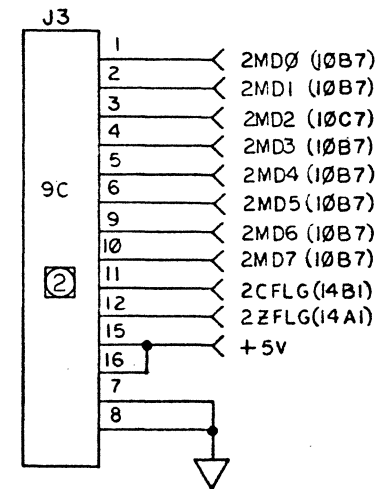
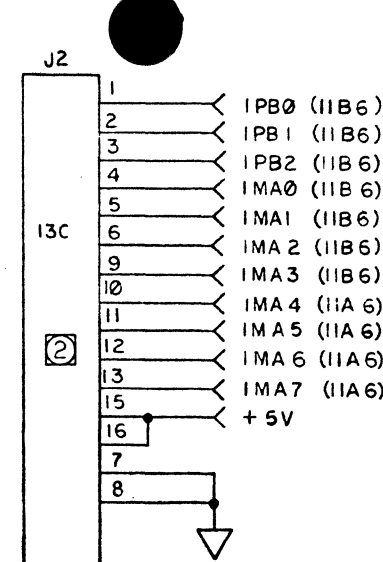
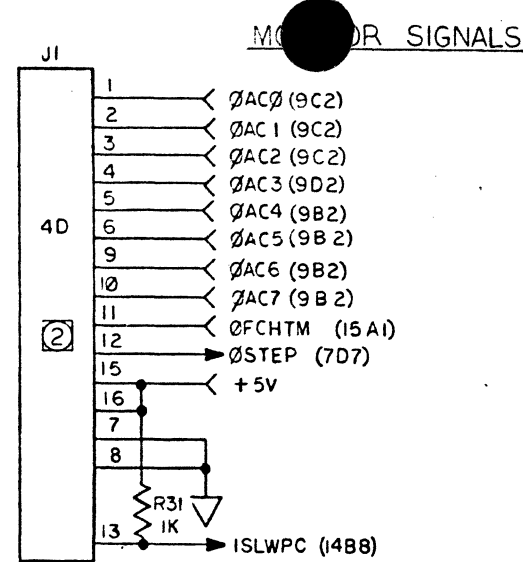
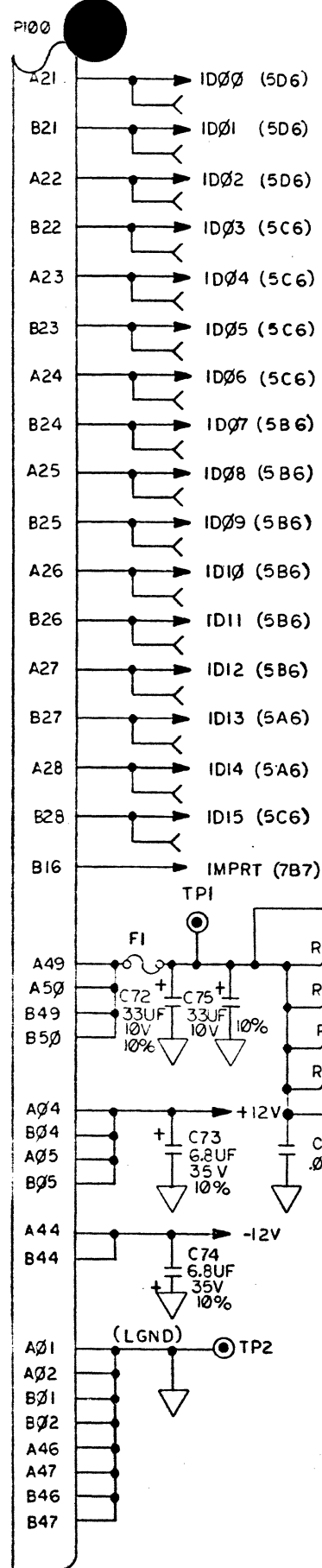
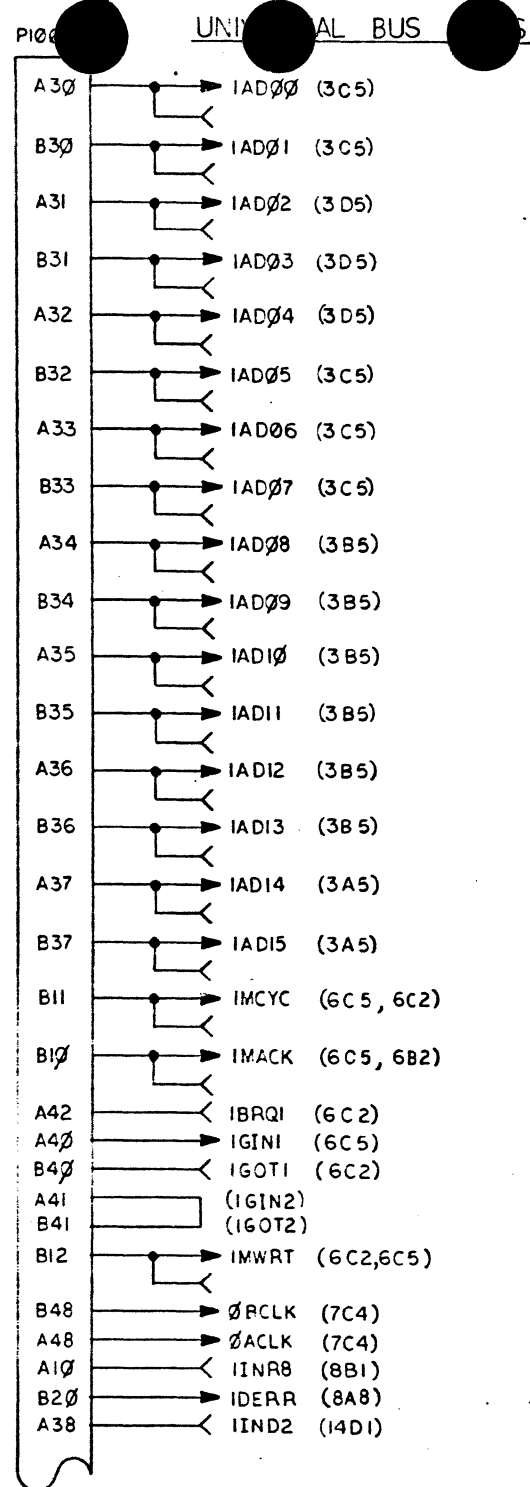
SOCKETS J1 (4D), J2 (13C) & J3 (9C) ARE FOR FUTURE USE.

1. ALL RESISTORS ARE IN OHMS, 1/4W, 10%.

NOTES: UNLESS OTHERWISE SPECIFIED

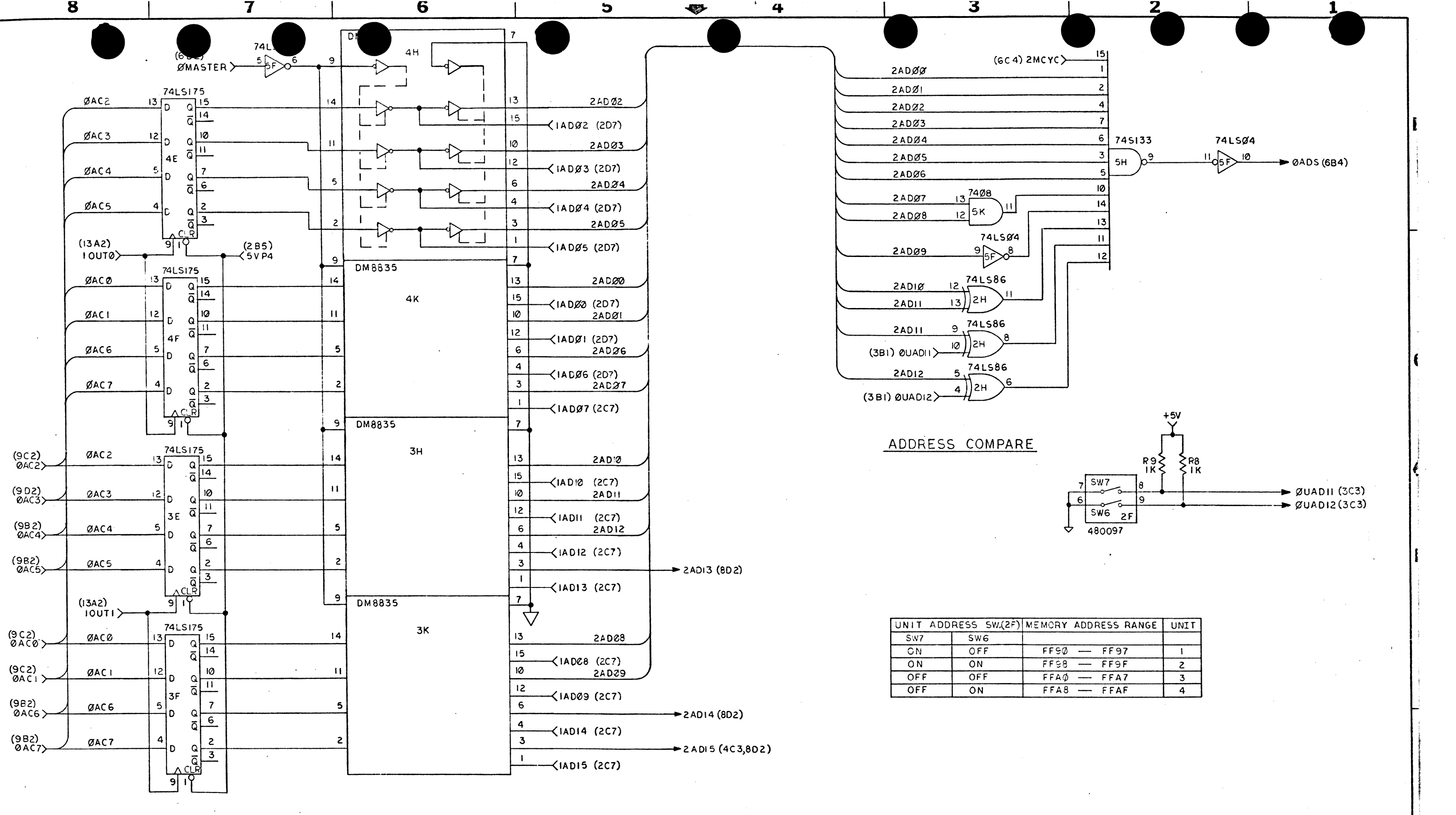
SHEET	12	13	14	15	16	17													
REV	01	01	01	01	02	01													
REV STATUS OF SHEETS																			
REV	02	02	01	01	01	01	01	01	02	02	01	01	01	01					
DRAWN	PERTEC BUSINESS SYSTEMS DIVISION																		
CHECK	TITLE SCHEM. PCBA COMM. CONTROLLER MCU-1																		
APPR	CODE IDENT NO. SIZE DWG NO. REV																		
RELEASE	DC CODE D 121223 02																		
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SCALE NONE DO NOT SCALE DWG SHEET 1 OF 17																			



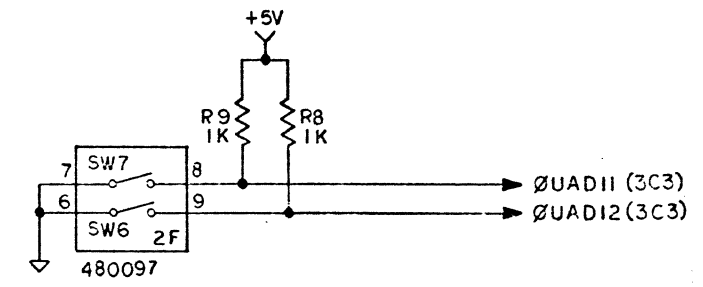


SPARE IC GATES (OUTPUTS CIRCLED)		
74LS00	17A 2B 15C	4, 5, 6 8, 9, 10 - 11, 12, 13 11, 12, 13
7402	5E	1, 2, 3 - 4, 5, 6 - 11, 12, 13
7404	1A 3C 5C 8C	1, 2 - 3, 4 - 5, 6 12, 13 3, 4 - 5, 6 12, 13
74LS04	12D 10E	1, 2 1, 2 - 13
7406	14H	1, 2 - 3, 4 - 8, 9 - 10, 11 - 12, 13
74LS08	15H	11, 12, 13
74S10		
74LS10	14F	1, 2, 13 - 8, 9, 10, 11
74LS11	18B	8, 9, 10, 11
74LS20	18A	8, 9, 10, 12, 13
7438	2D 17F	1, 2, 3 - 11, 12, 13 1, 2, 3 - 11, 12, 13
74LS51	15F	2, 3, 4, 5, 6
74LS86	17C 2H	1, 2, 3 - 4, 5, 6 - 11, 12, 13 - 1, 2, 3

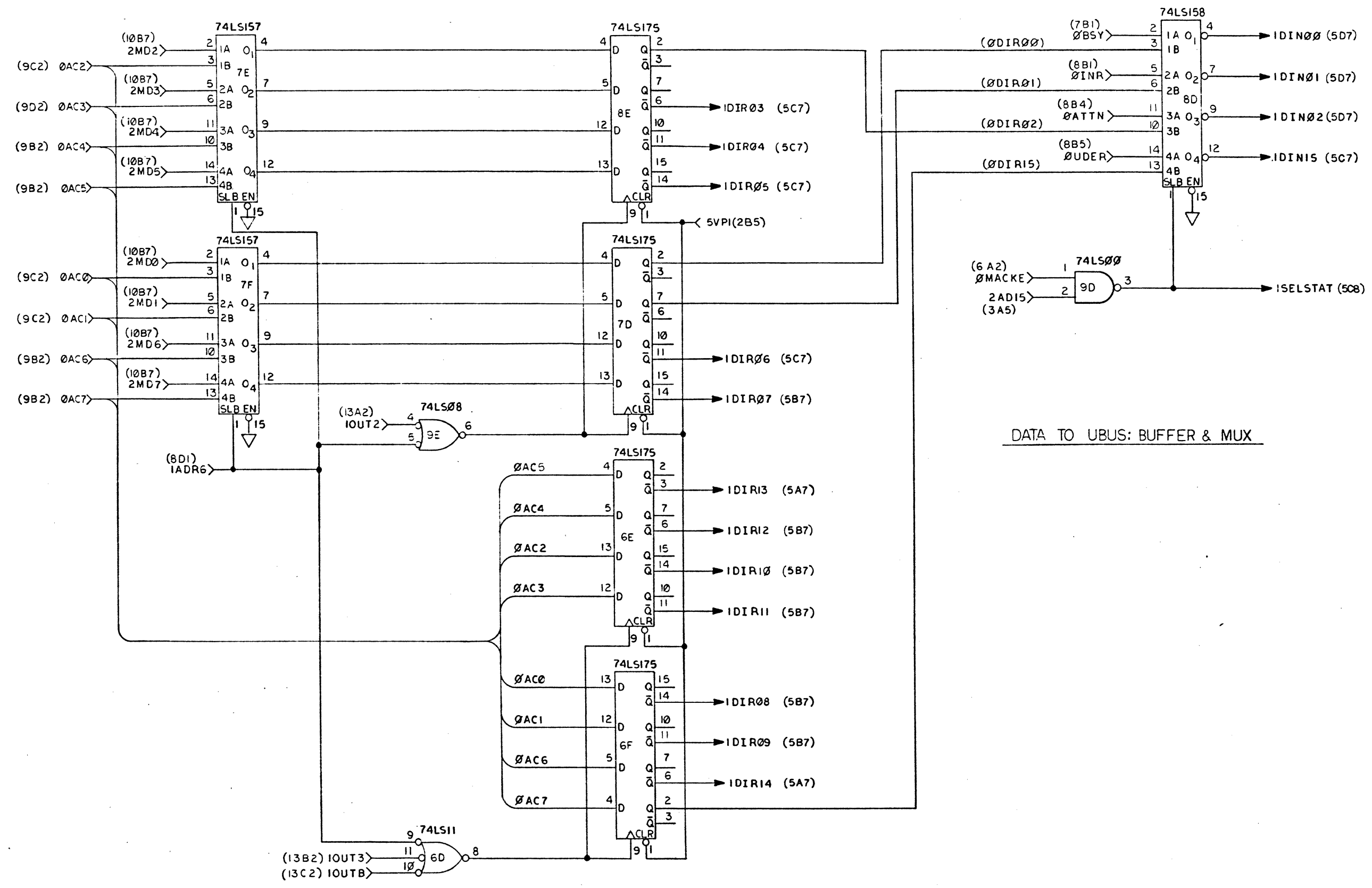
SPARE IC LOCATIONS 20A, 20D, 17H, 18H, 18K

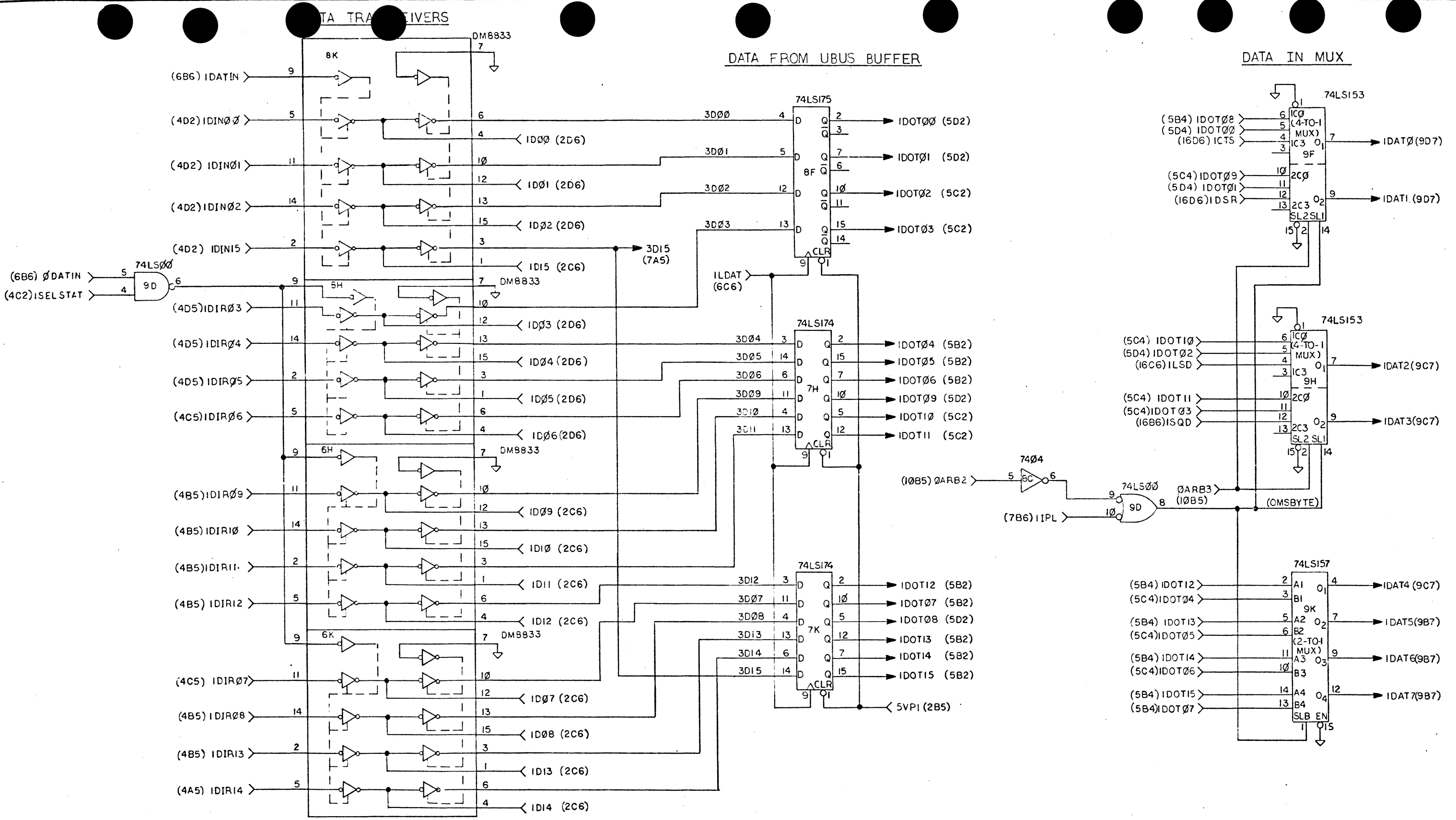


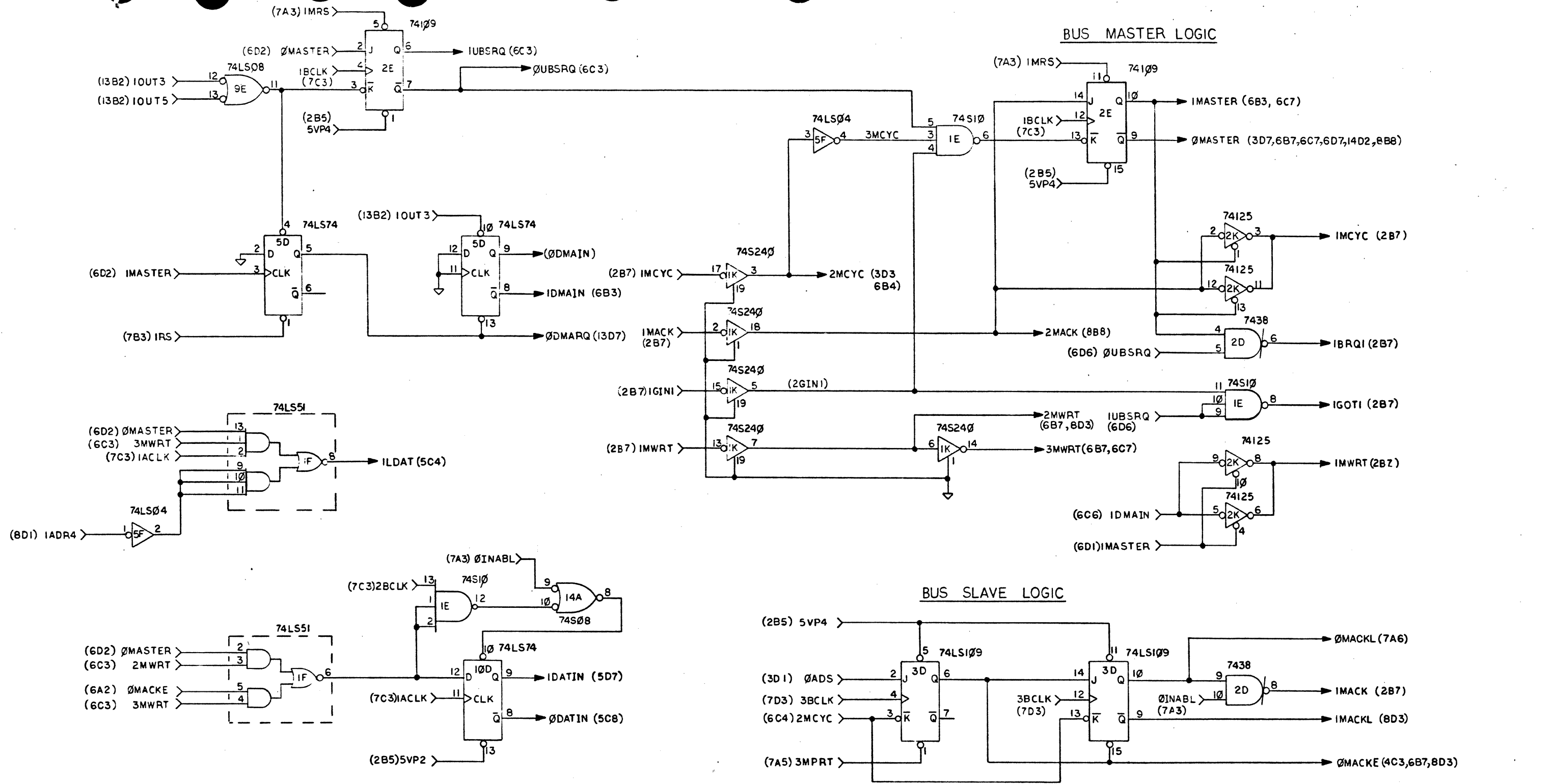
**ADDRESS COMPARE**



UNIT	ADDRESS SW.(2F)	MEMORY ADDRESS RANGE	UNIT
1	SW7 OFF	FF90 — FF97	1
2	SW7 ON	FF98 — FF9F	2
3	SW6 OFF	FFA0 — FFA7	3
4	SW6 ON	FFA8 — FFAF	4



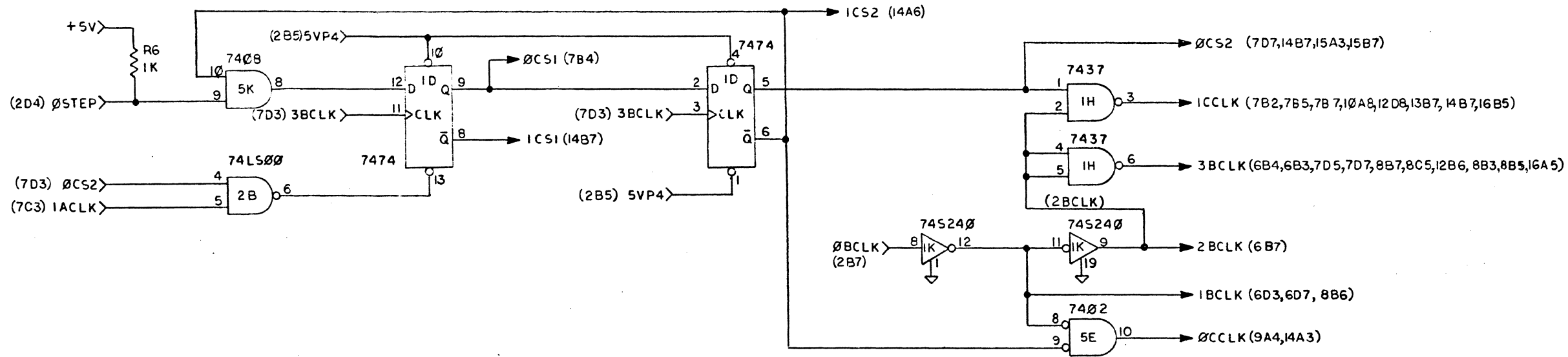




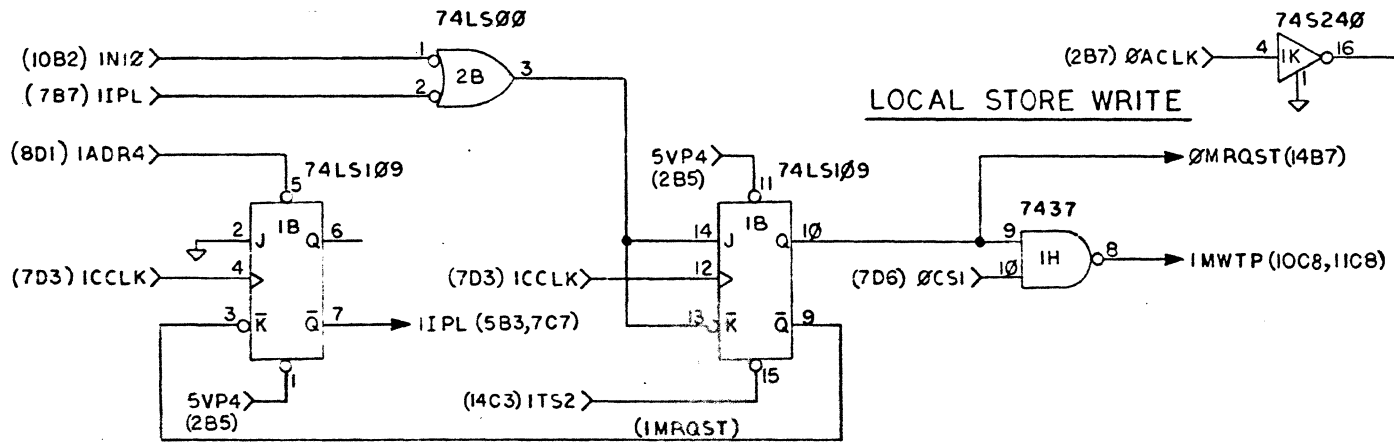
BUS MASTER LOGIC

BUS SLAVE LOGIC

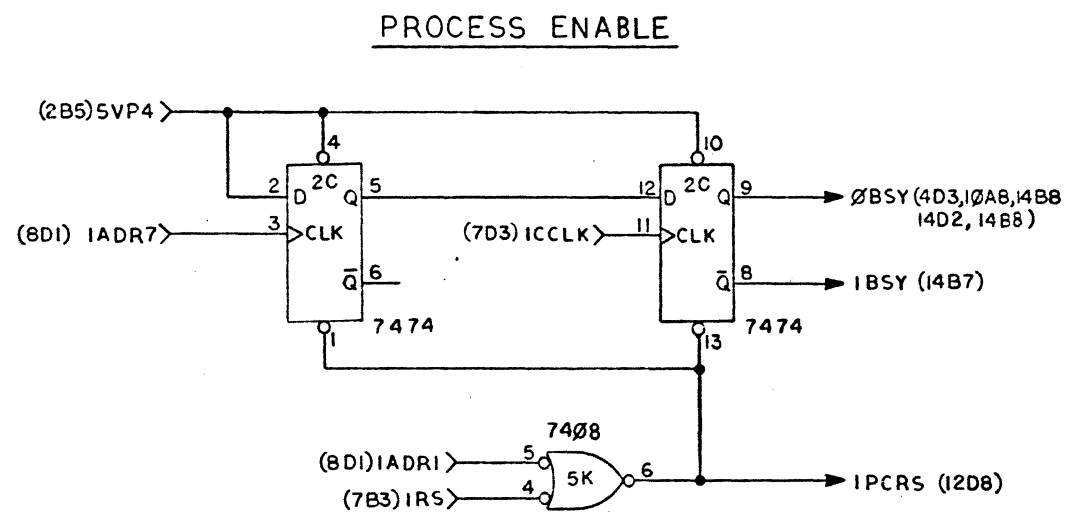
CLOCK TIMING



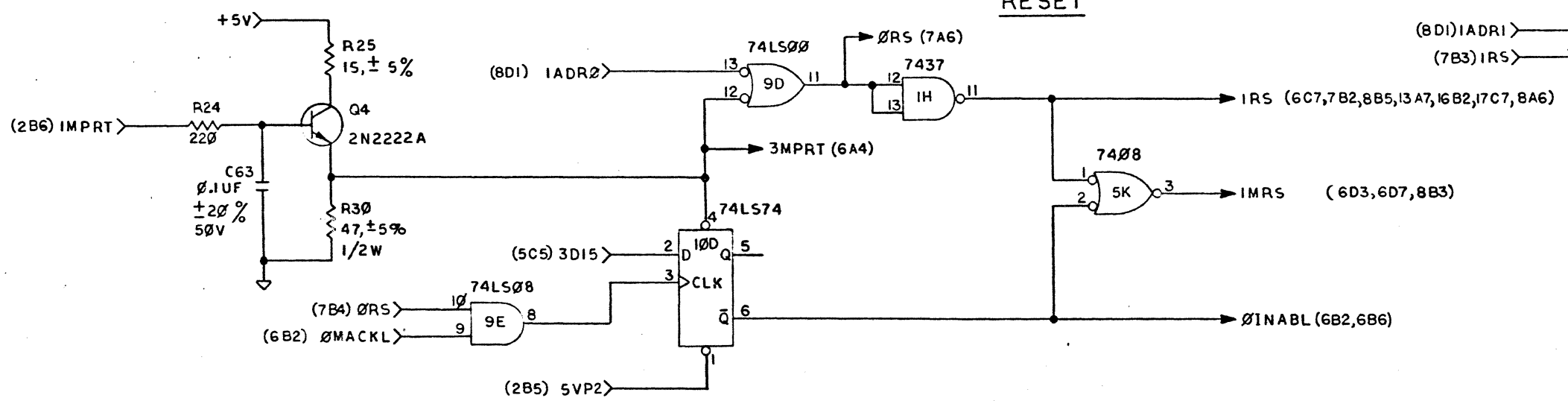
LOCAL STORE WRITE



PROCESS ENABLE



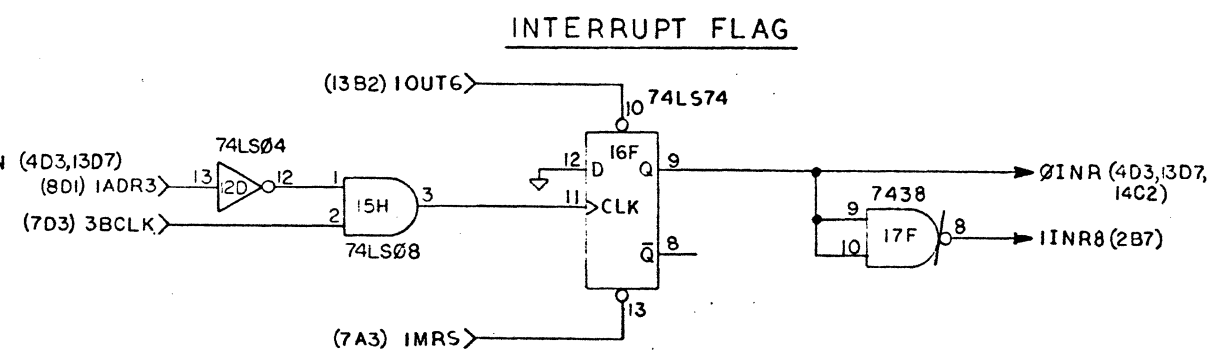
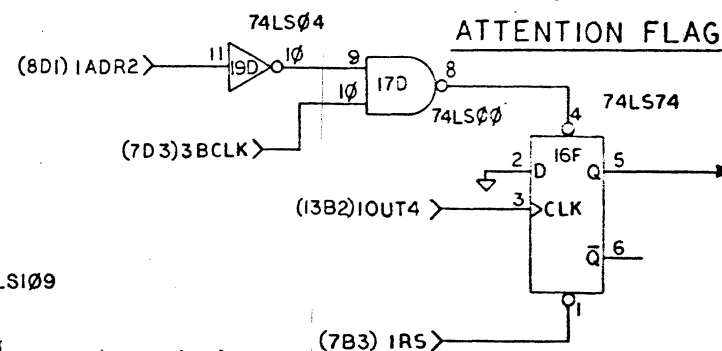
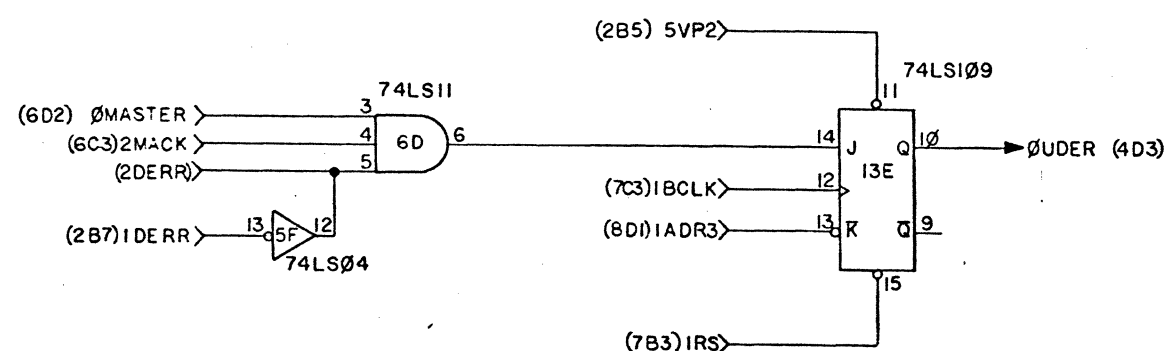
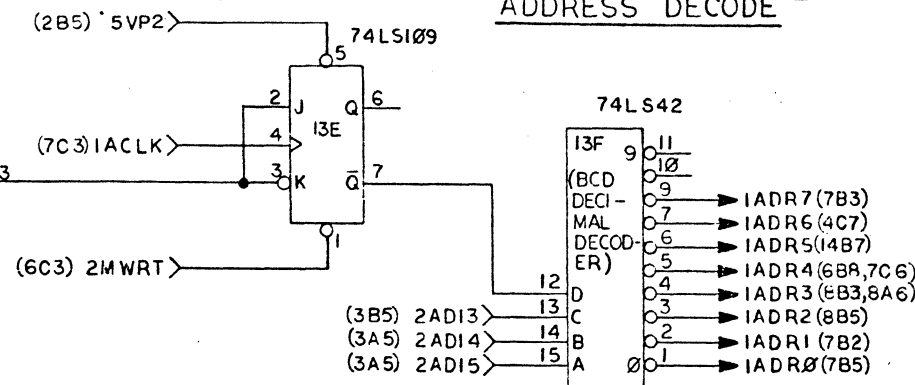
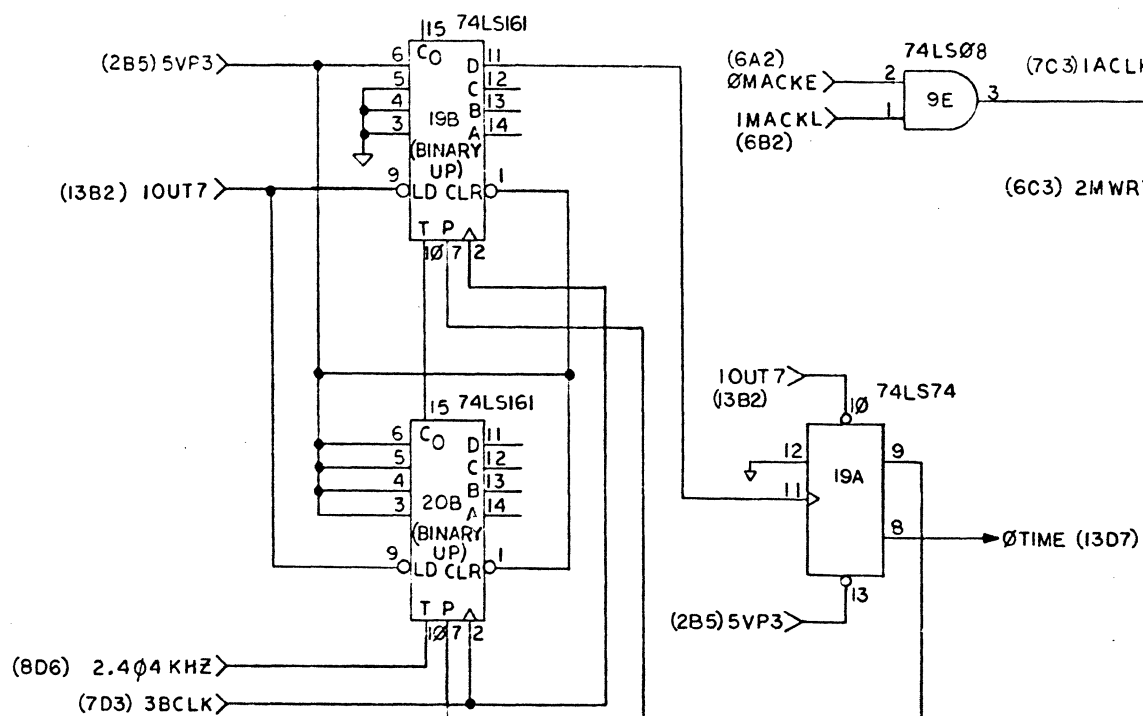
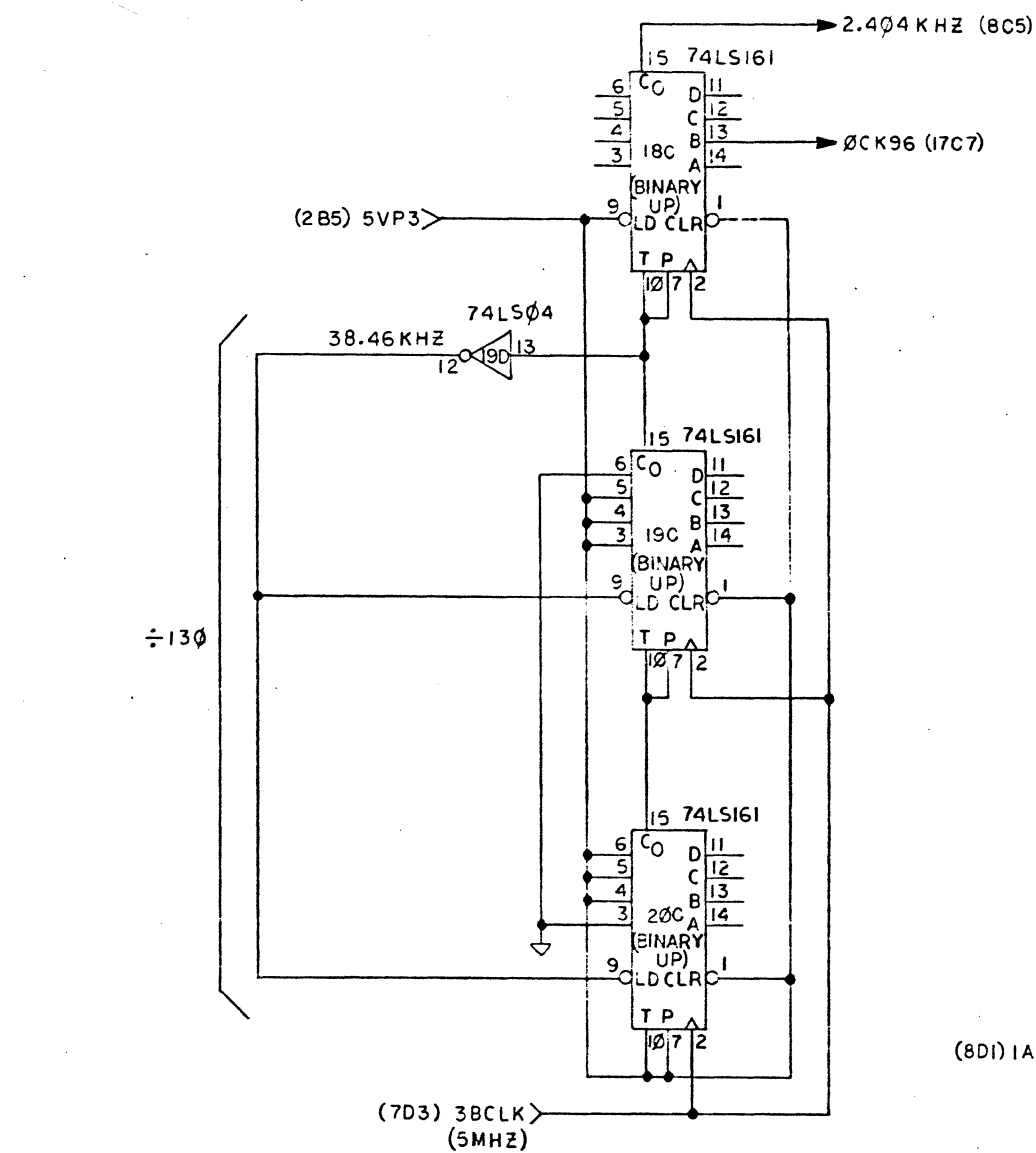
RESET



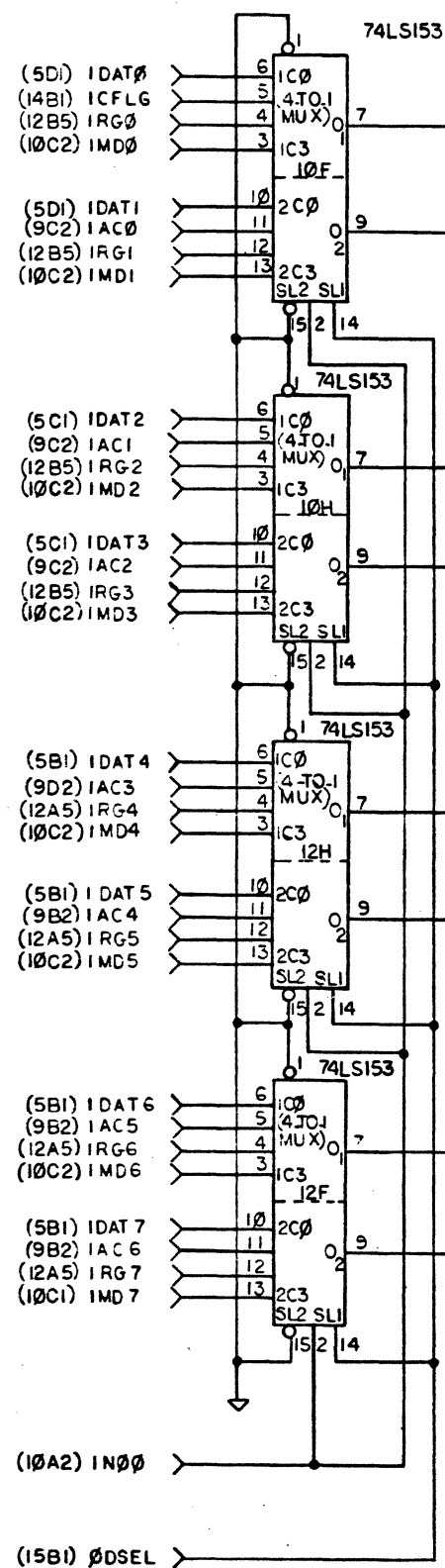
FREQUENCY GENERATOR

O.I. SEQUENCE INTERVAL

ADDRESS DECODE

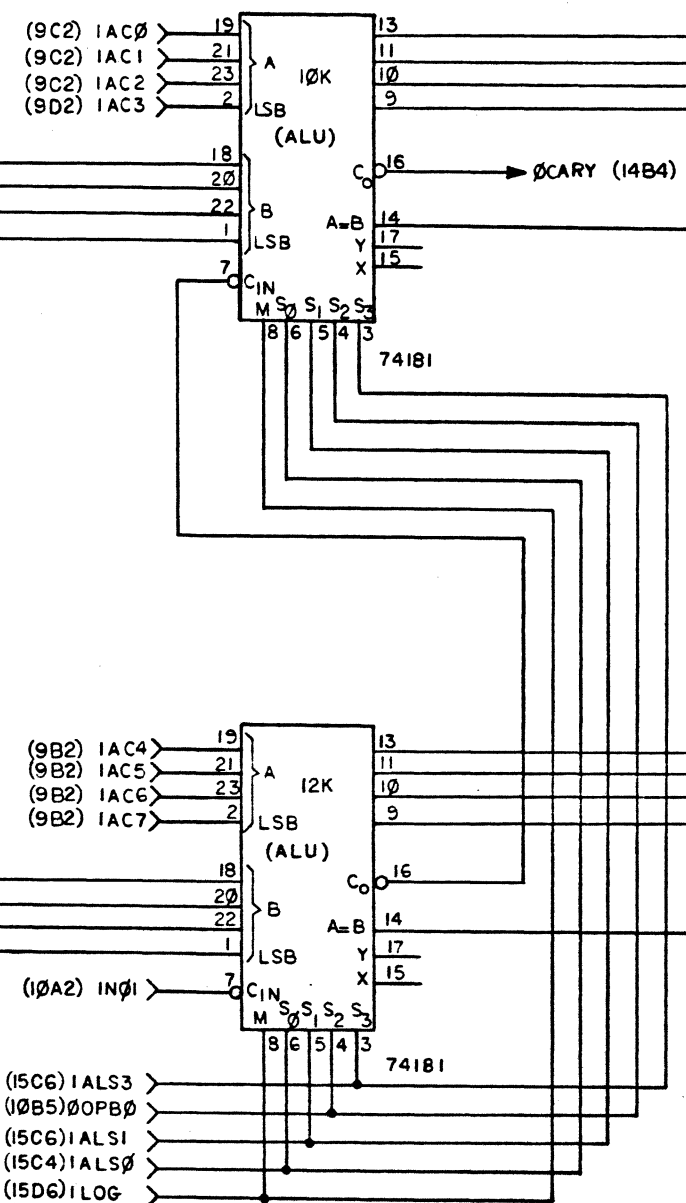


### B MUX

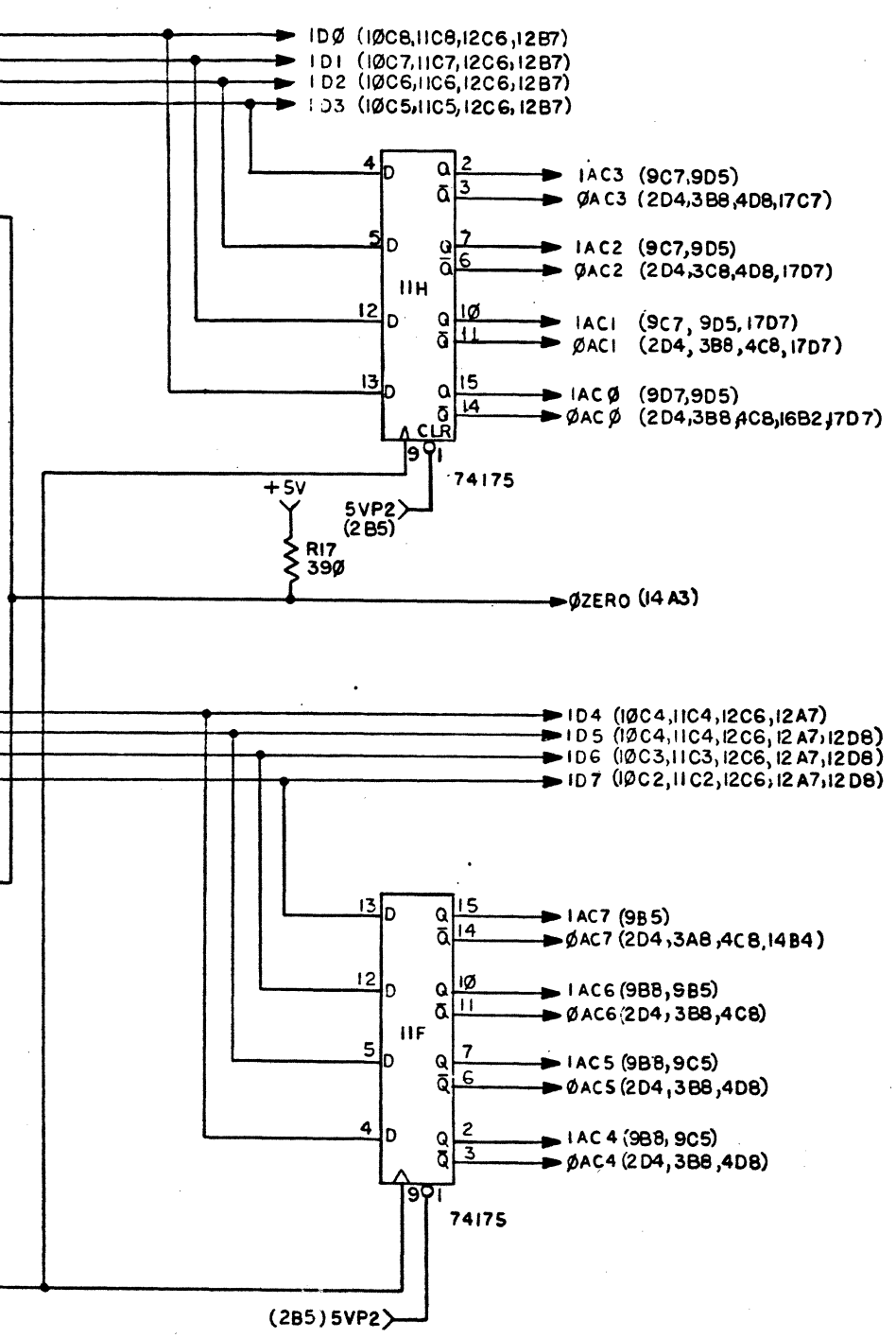


DMUX DATA SELECTION CHART		
SL2	SL1	DATA
0	0	INPUT MUX
0	1	ROTATED ACCUMULATOR
1	0	GENERAL REGISTERS
1	1	RAM

### ALU

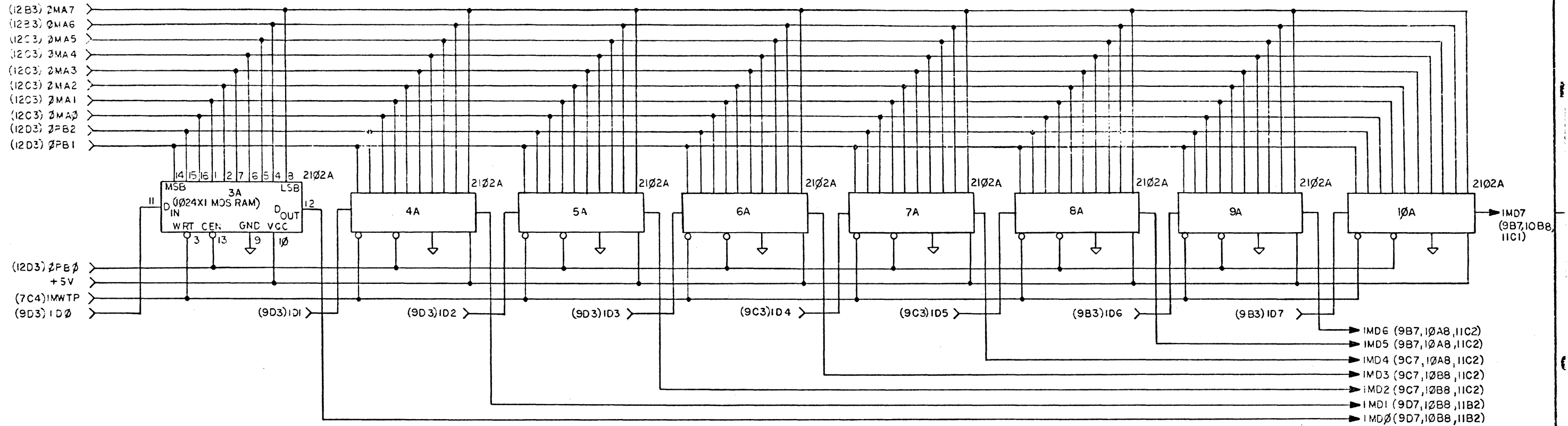


### ACCUMULATOR

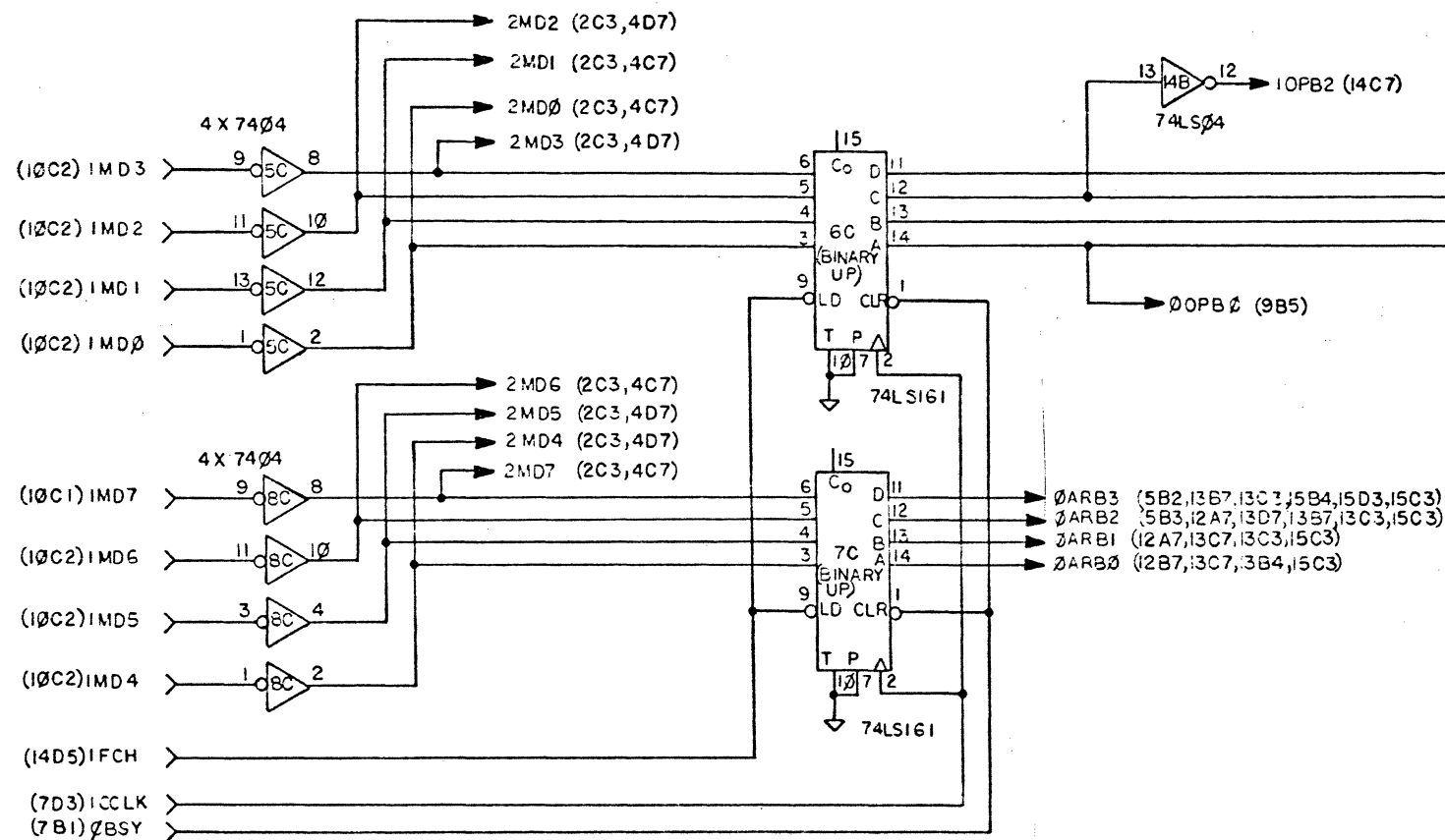




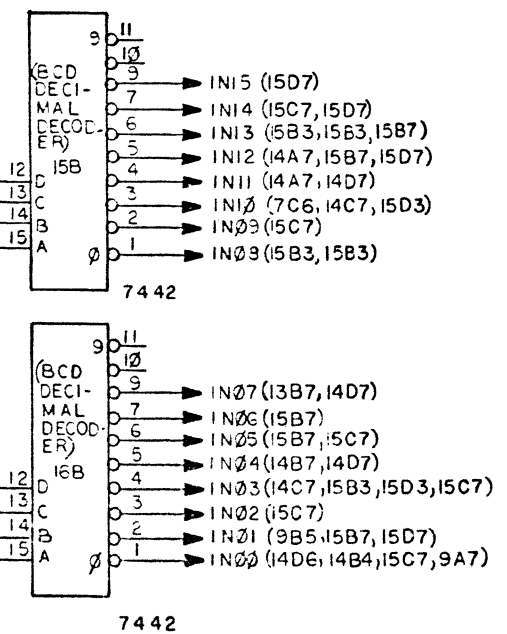
1024 X 8 RAM



INSTRUCTION REGISTER

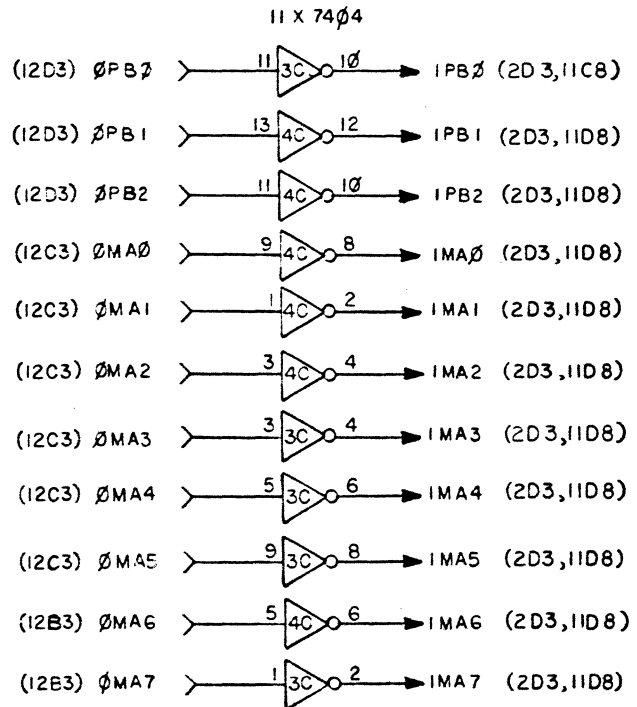
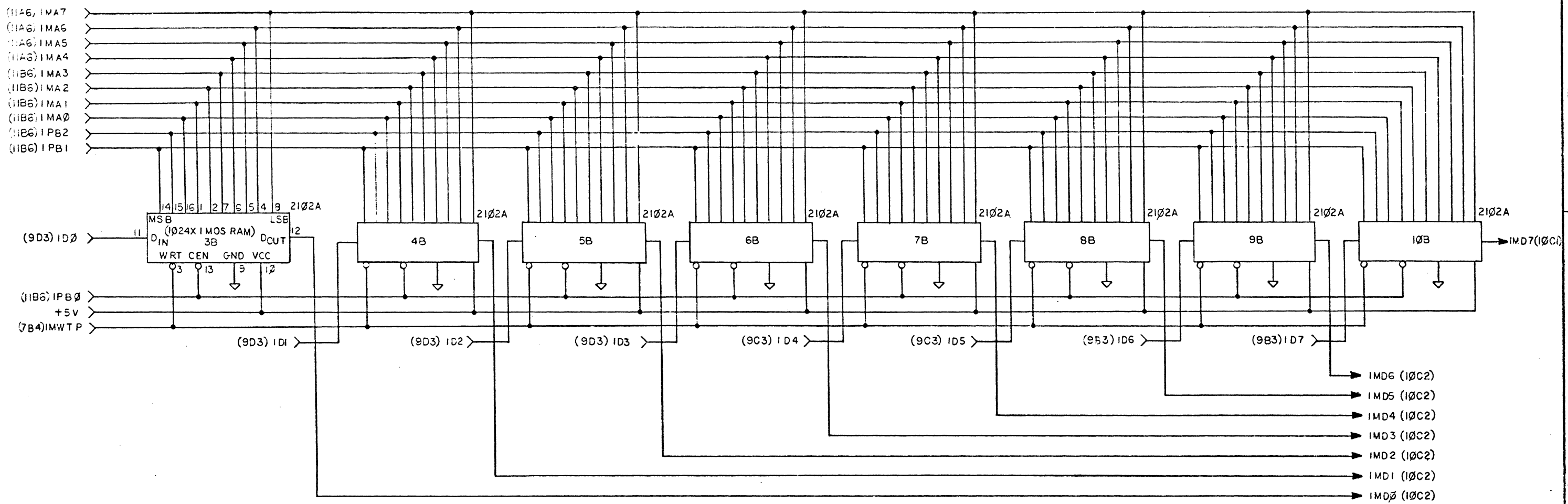


INSTRUCTION DECODE



8 7 6 5 4 3 2 1

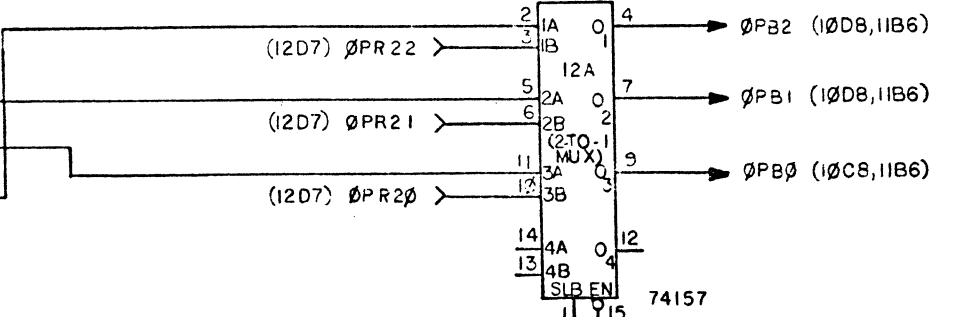
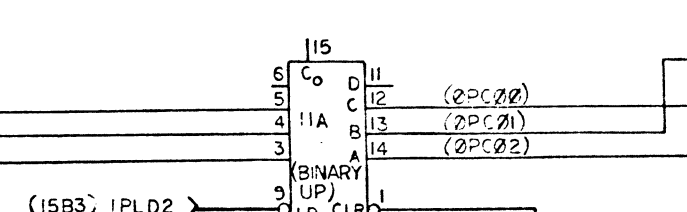
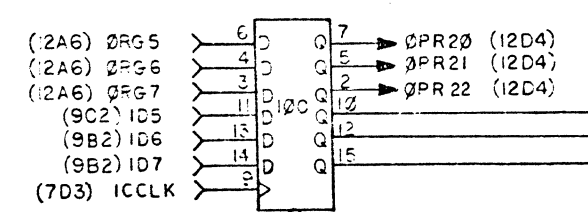
1024X 8 RAM



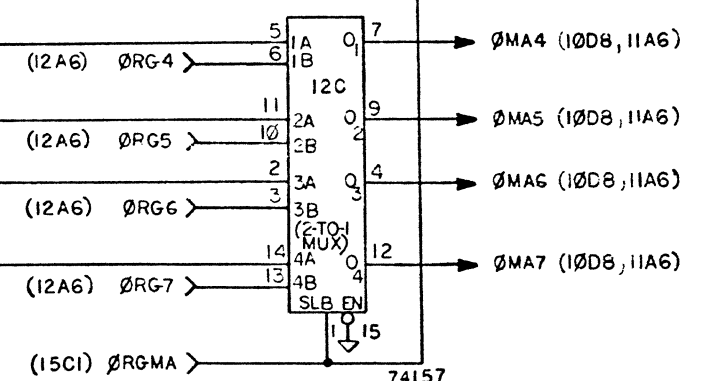
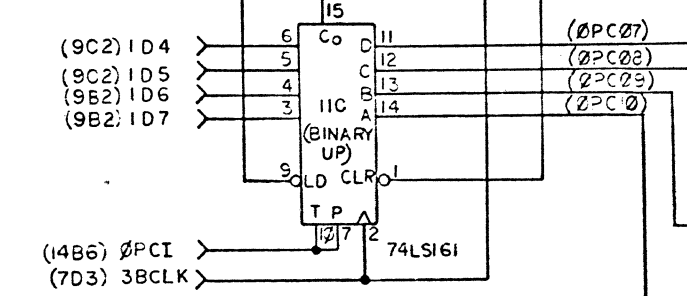
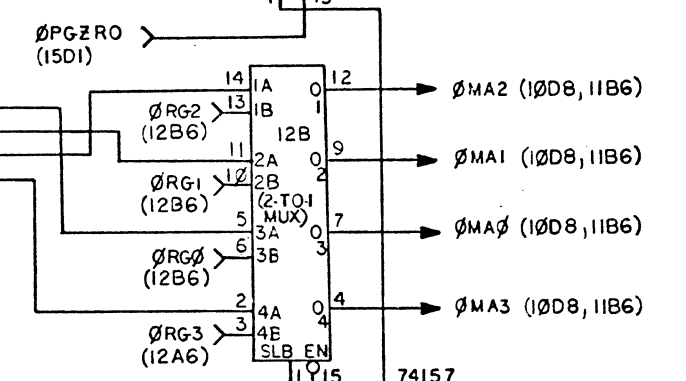
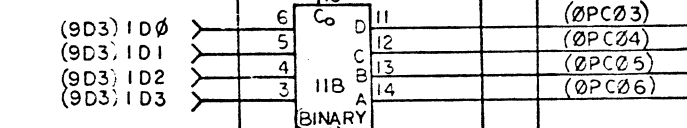
ADDRESS MUX

PAGE REGISTER(12)

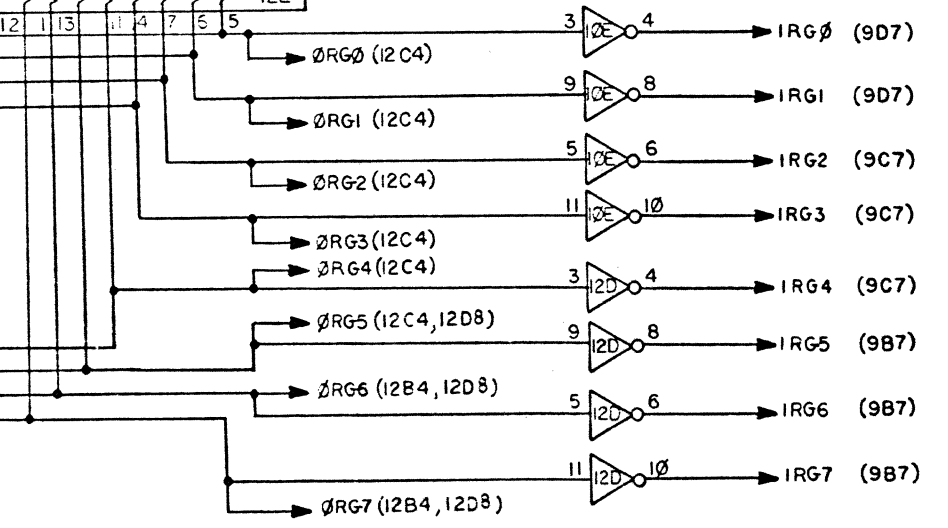
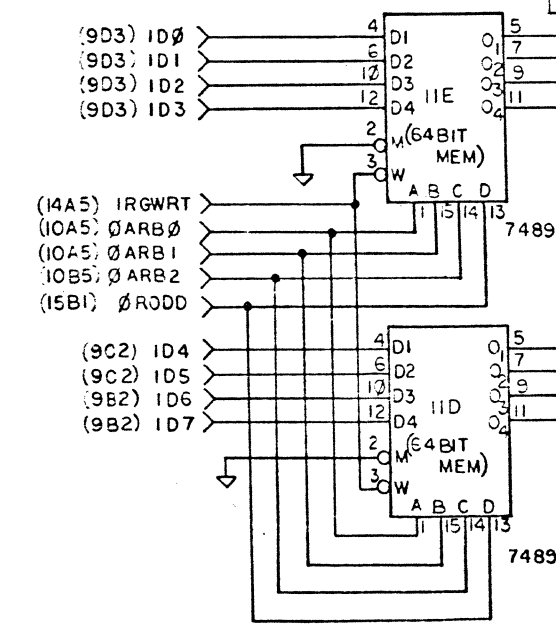
PROGRAM COUNTER



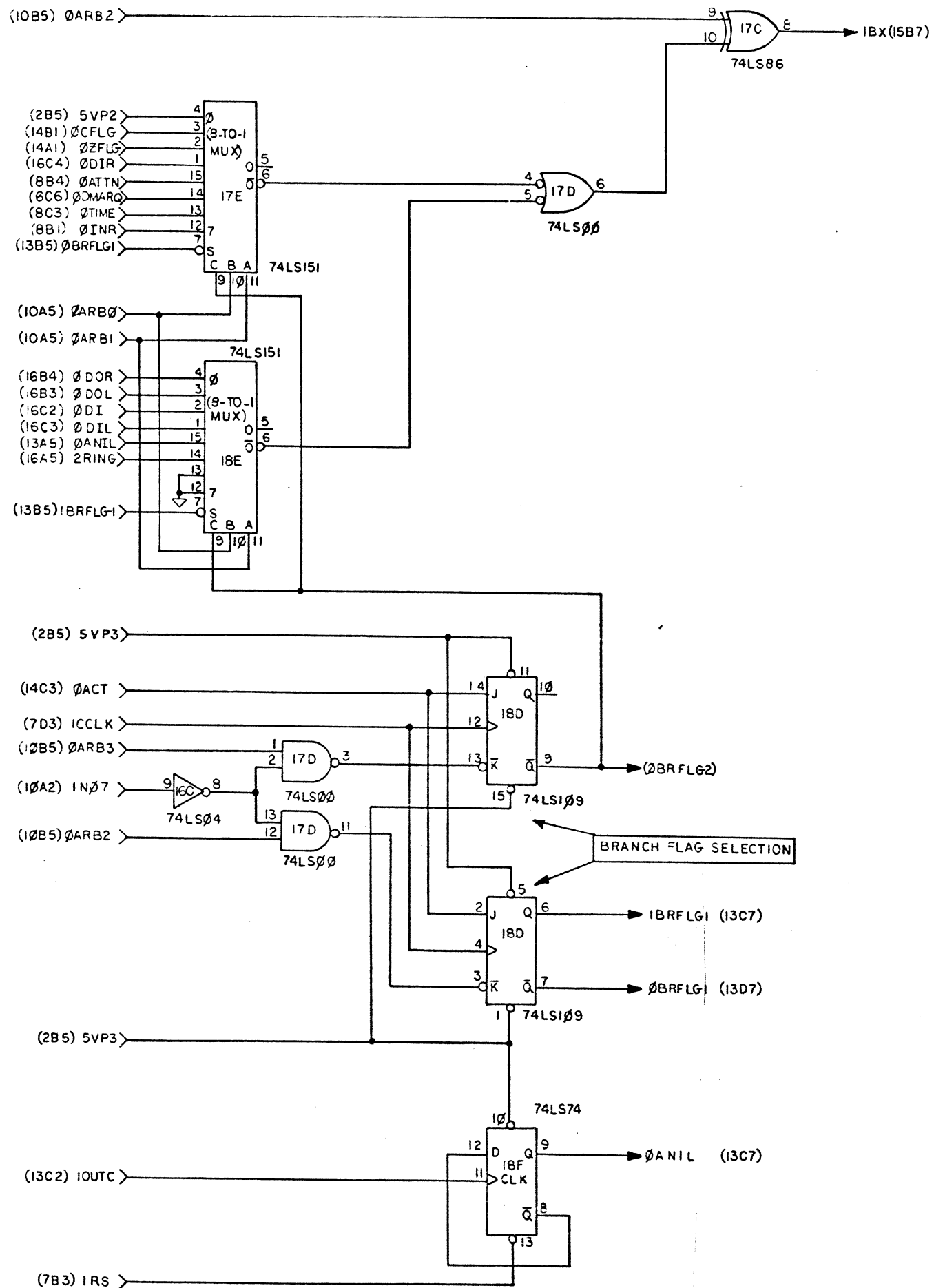
(7B1) IPCRS



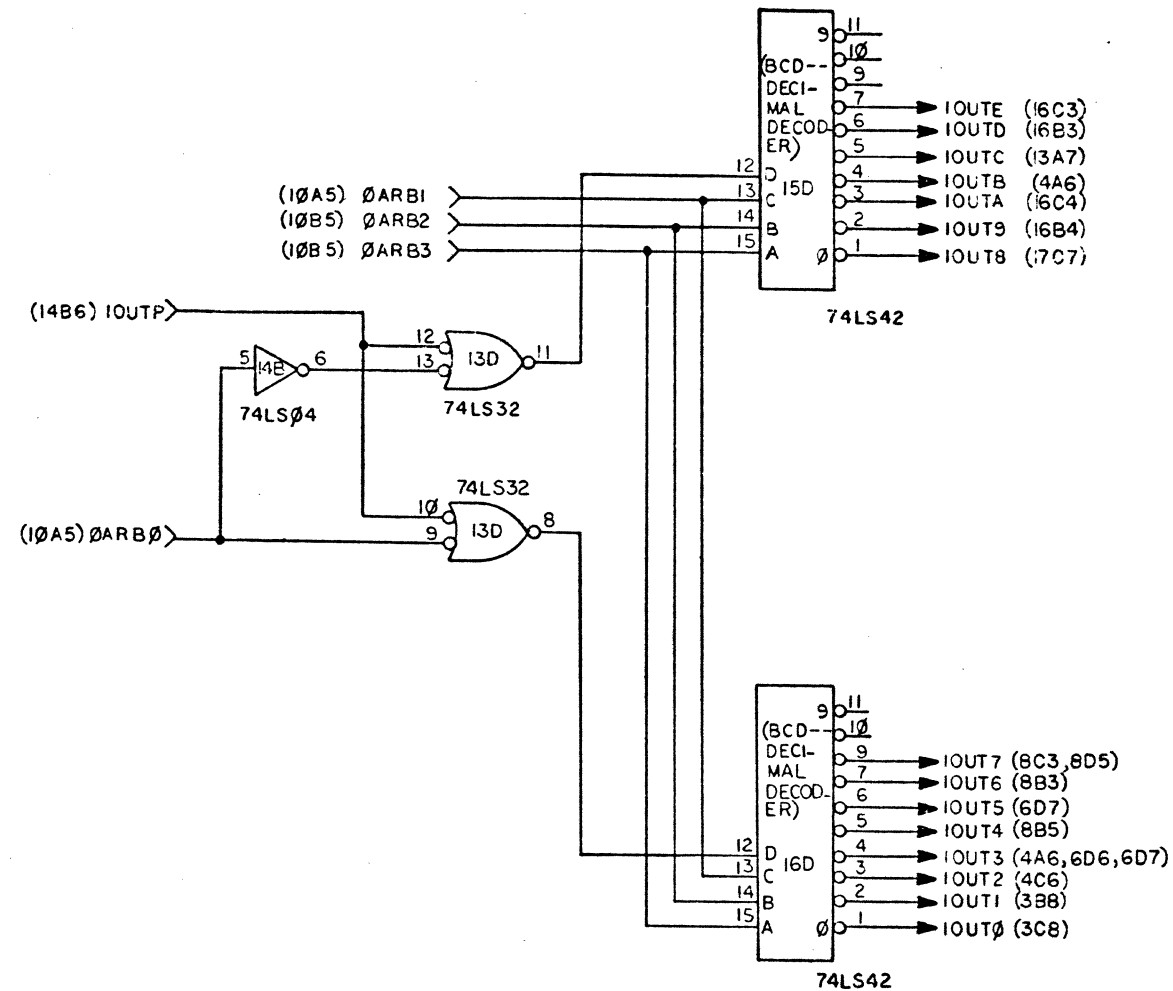
GENERAL REGISTERS



BRANCH CONDITION SELECTOR

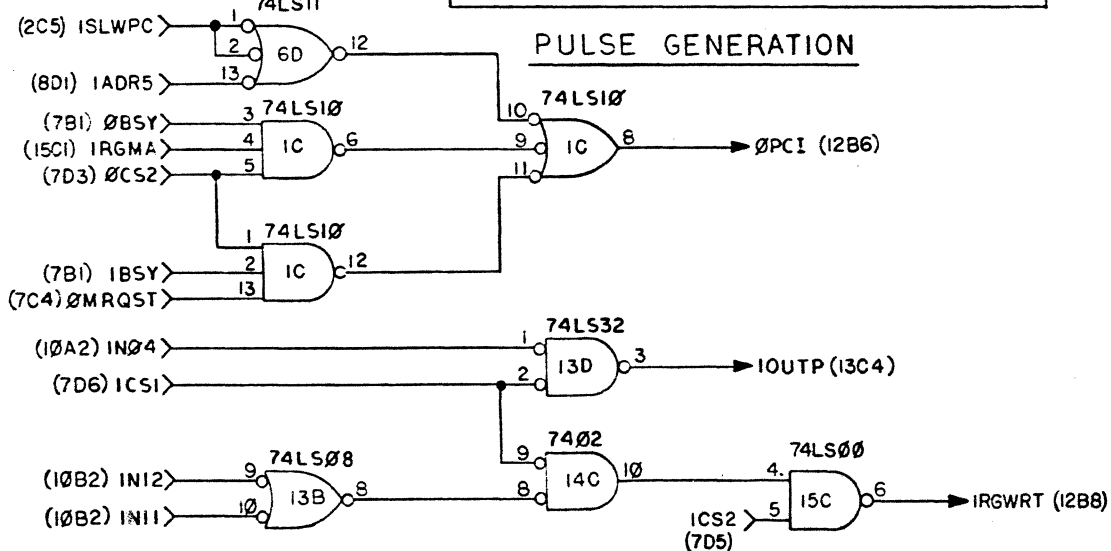
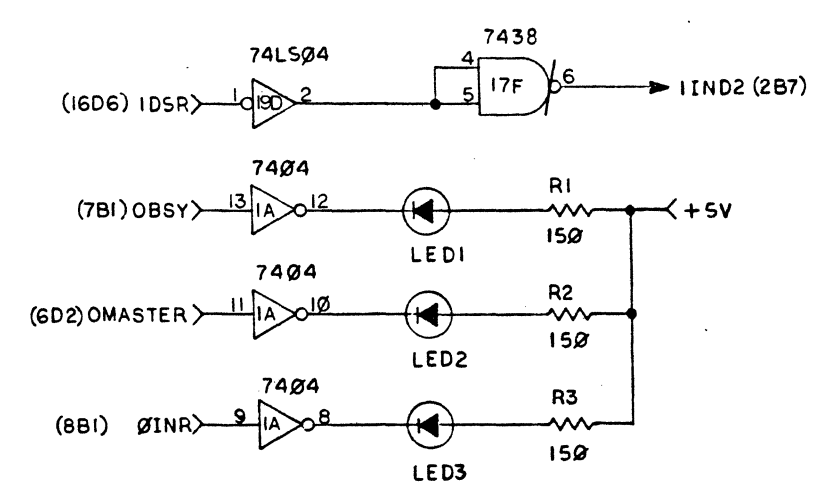
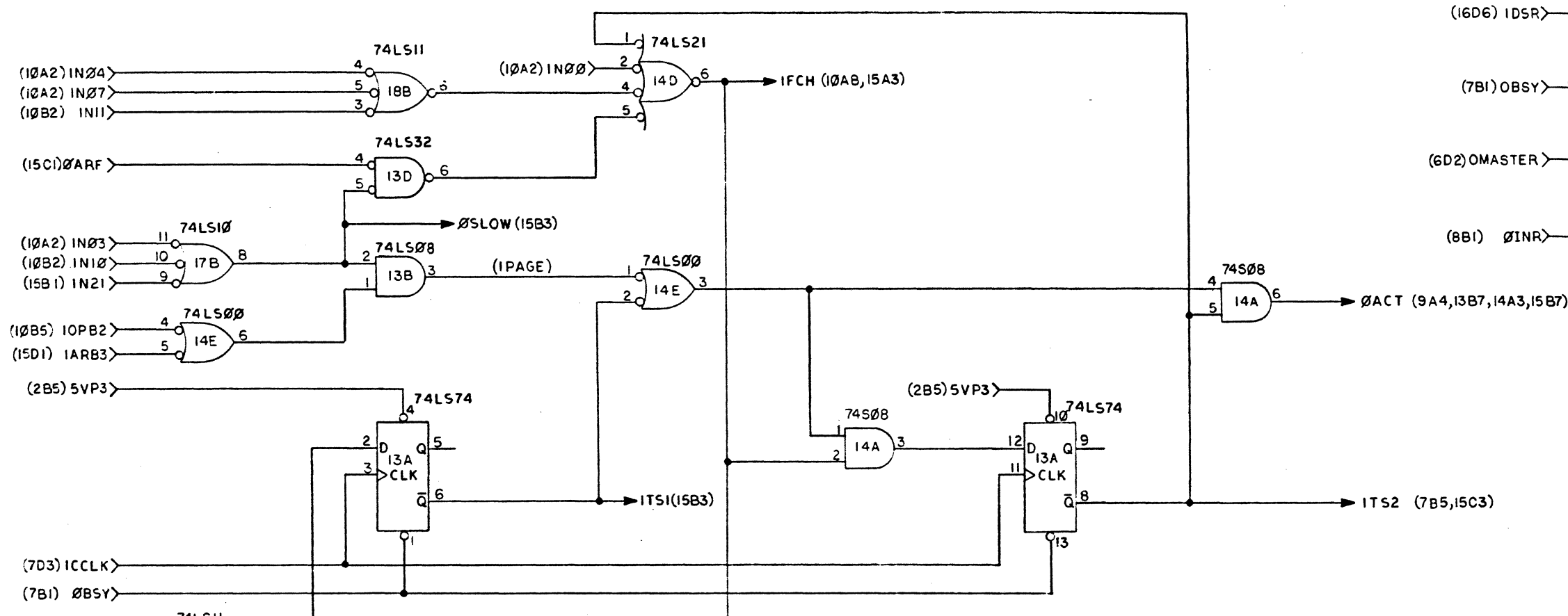


OUTPUT DISTRIBUTOR

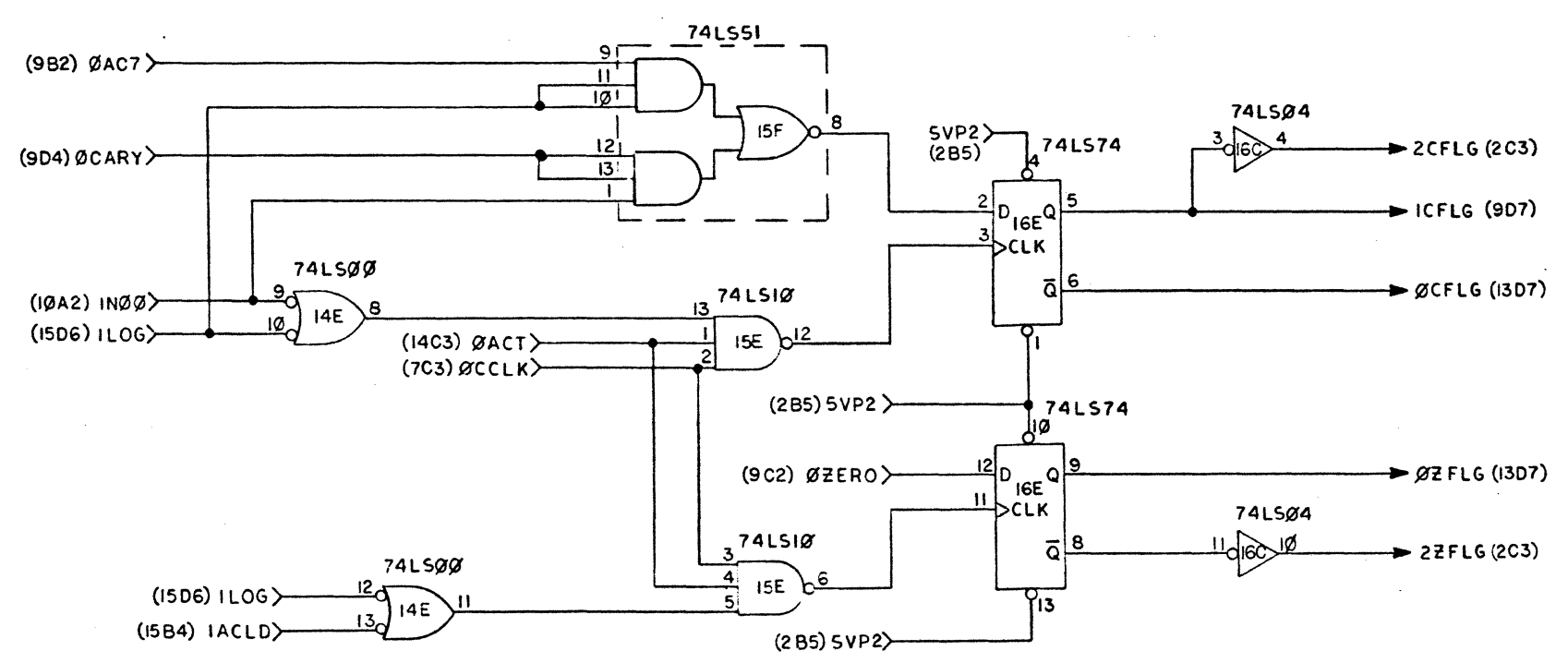


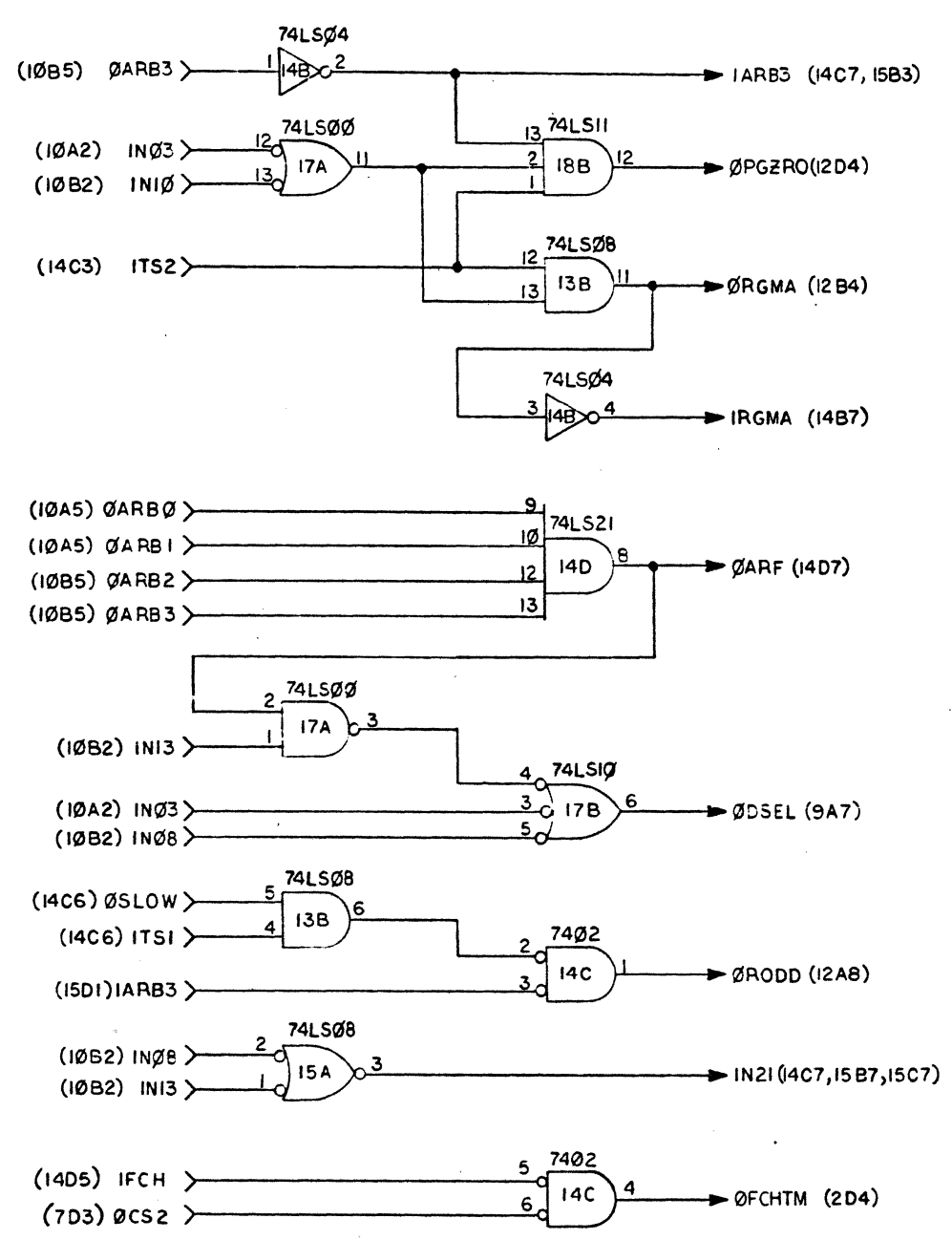
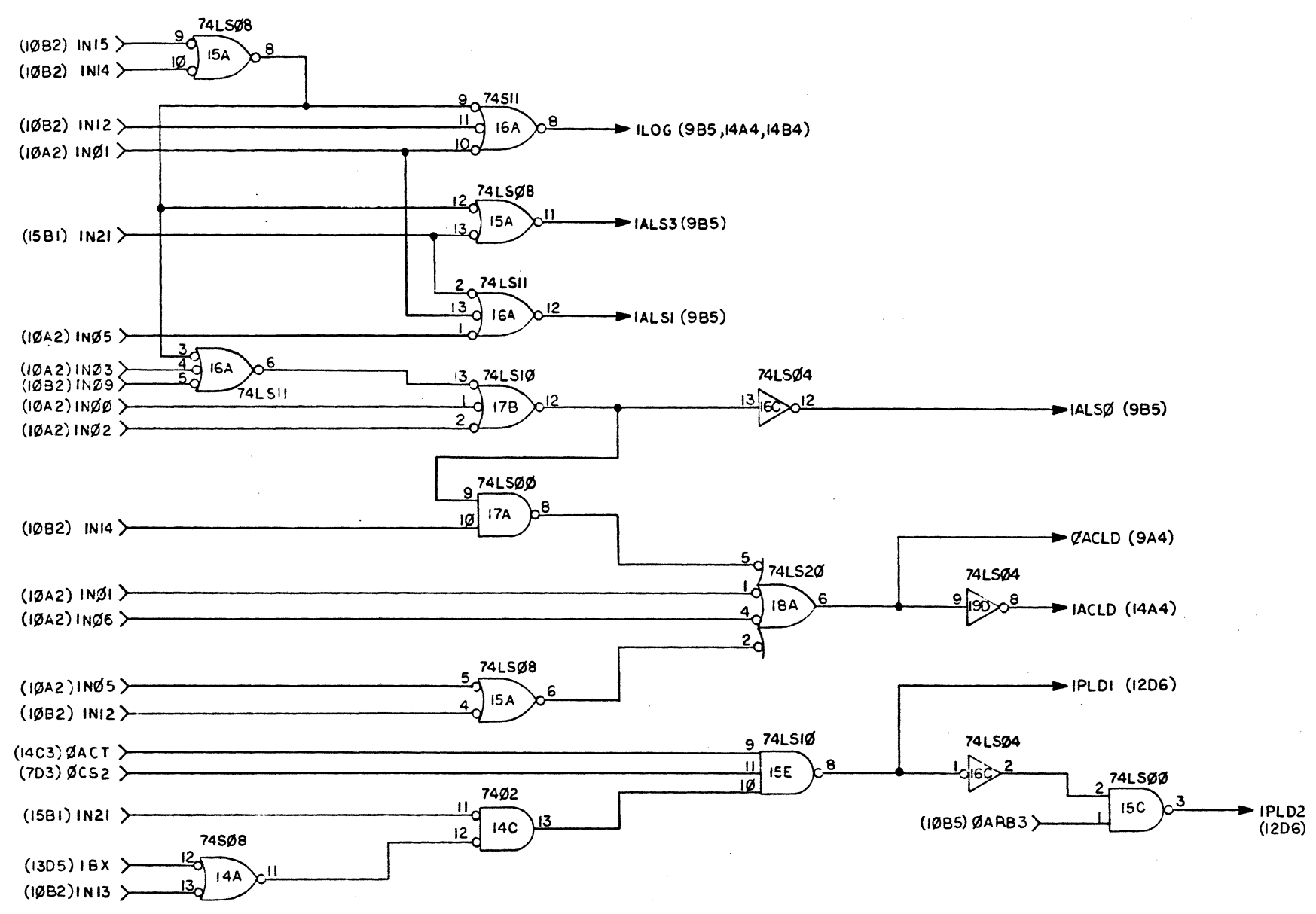
TIME STATES

INDICATORS

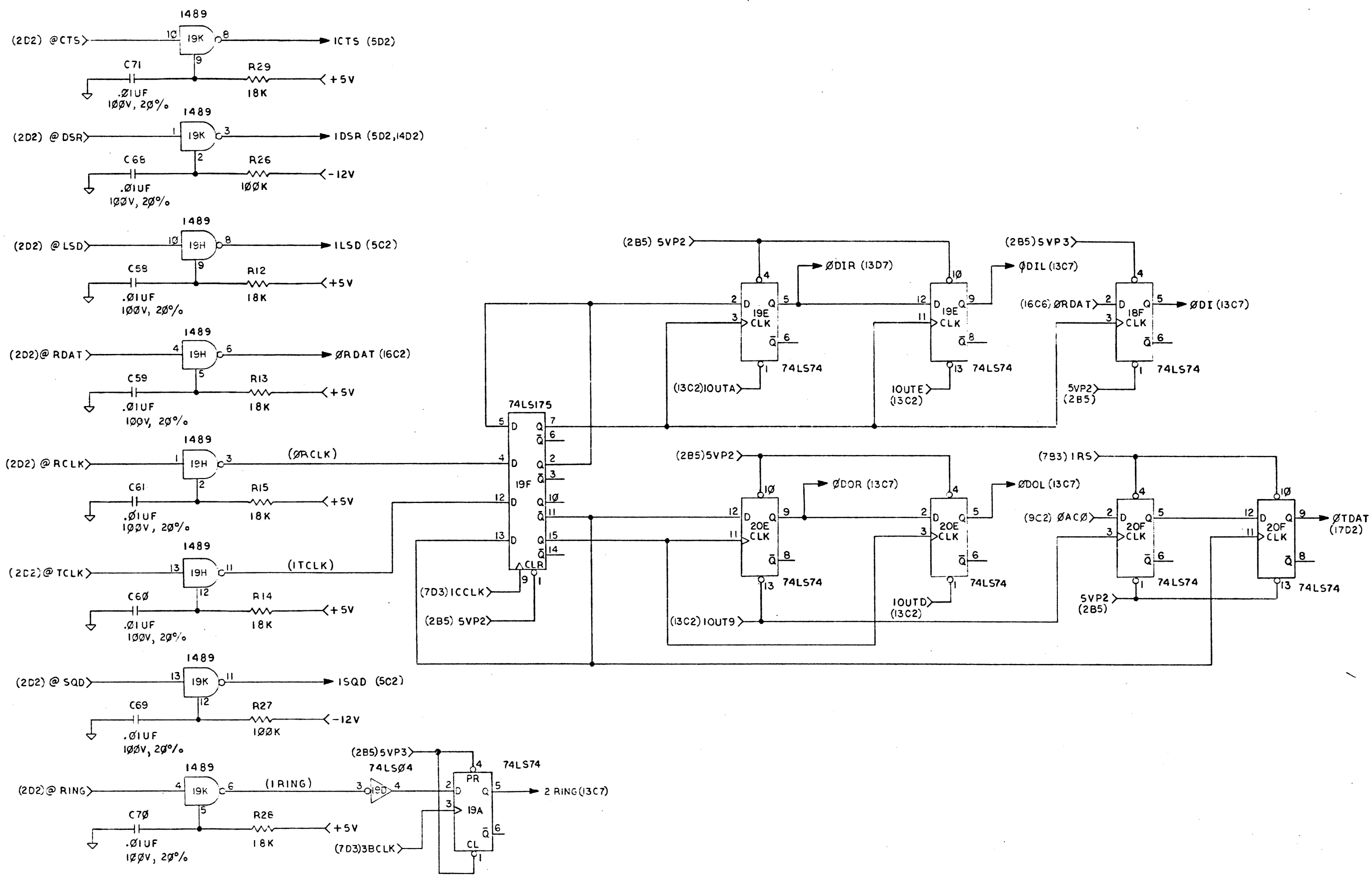


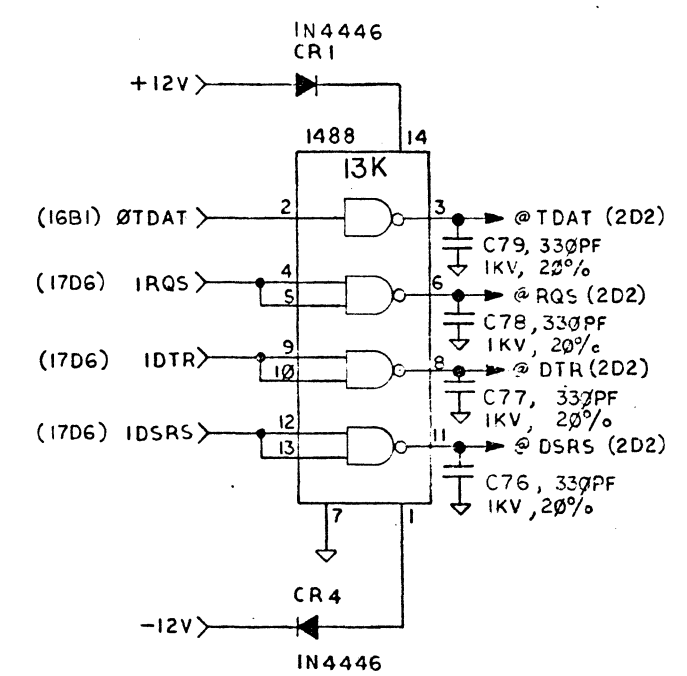
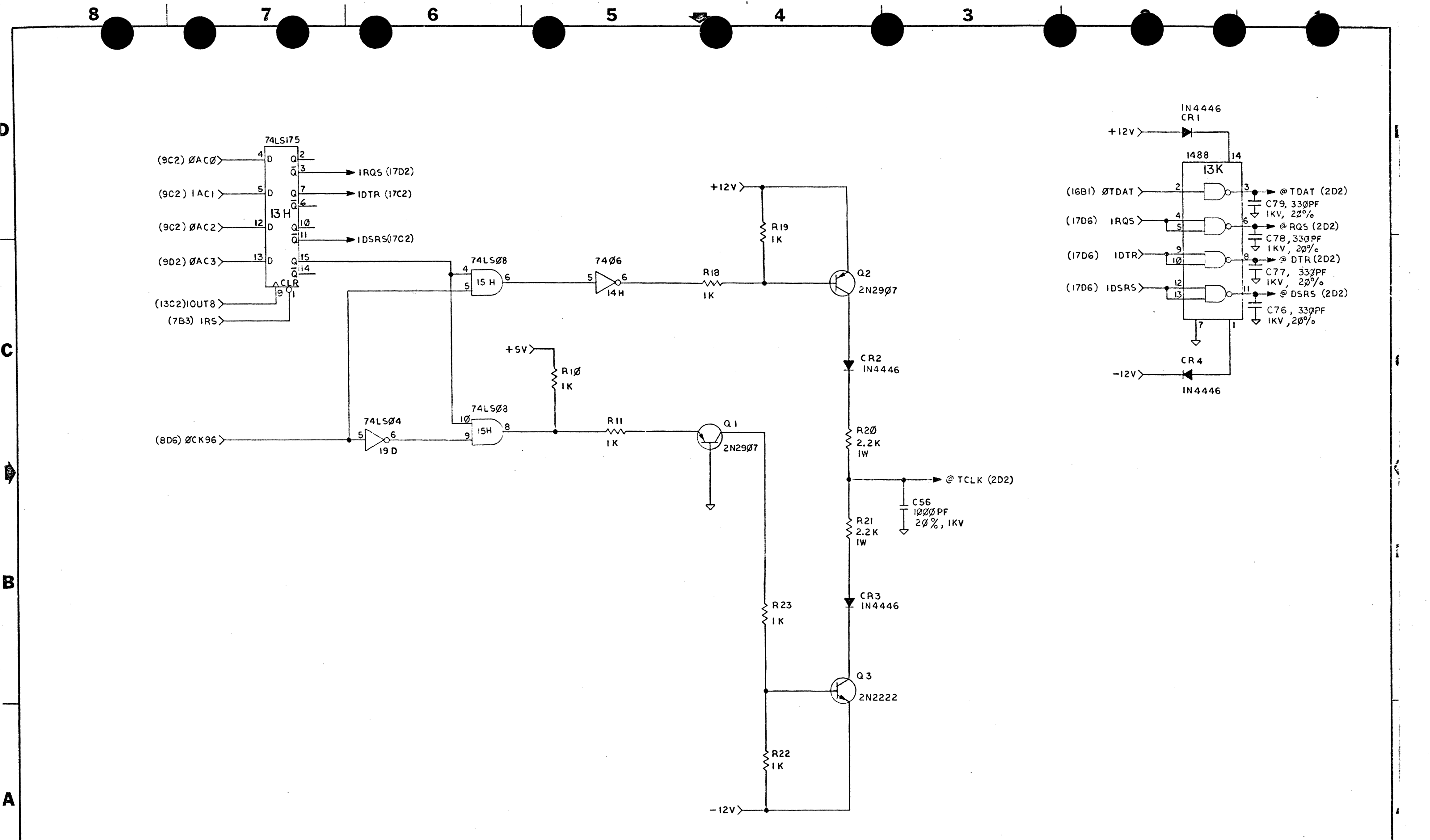
CARRY AND ZERO FLAGS





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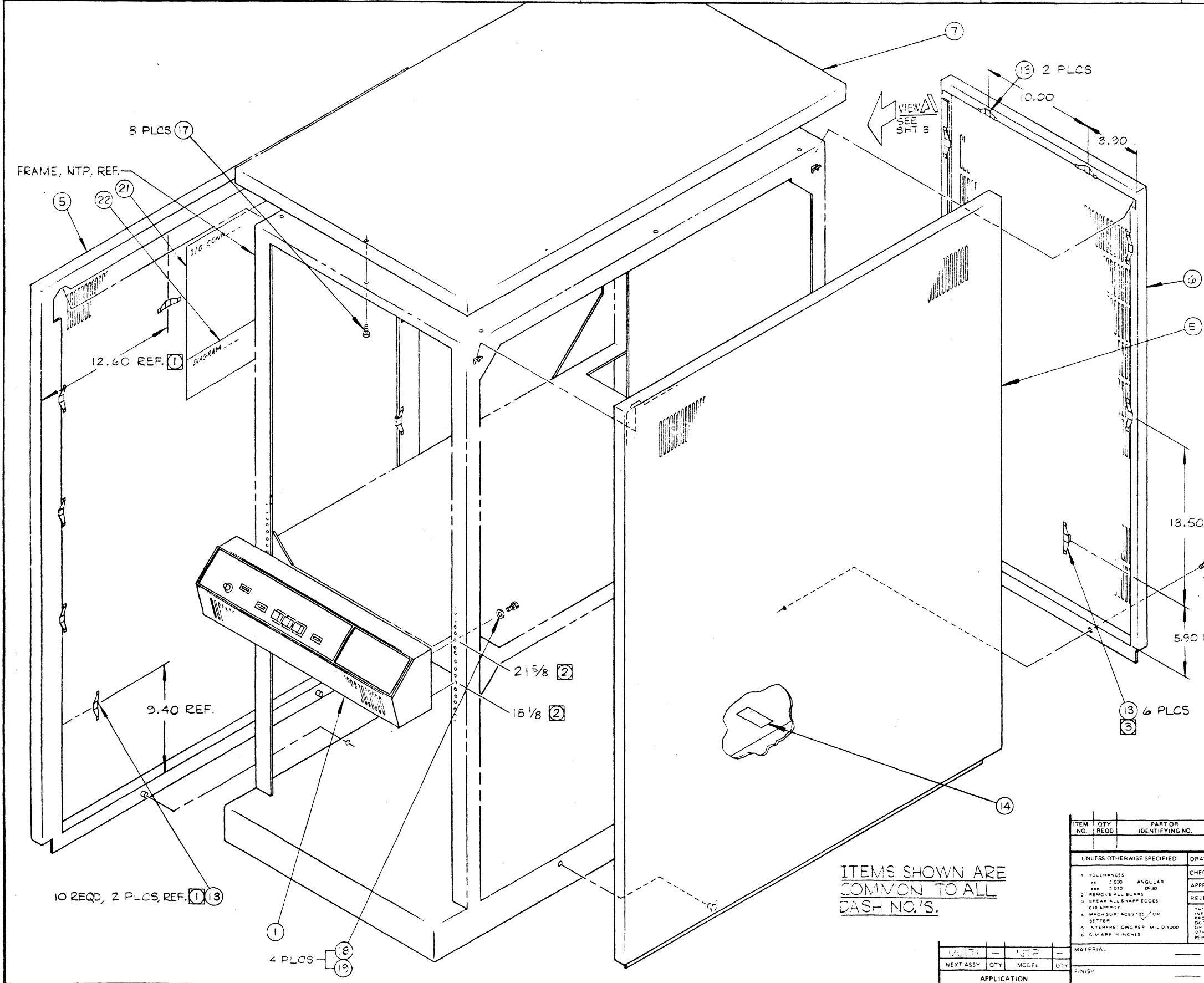
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REVISIONS				
SYM	DESCRIPTION	DRFTG	APPROVED	DATE
1	RELEASE PER DCO		EB	2/21/79
2	MODIFIED FOR DASH NO'S	BCE	TLF	1/27/79
3	NCORP DCO 100874	F.C.	MP	1/25/79
4	MODIFIED DCO 0:874	T	EB	1/24/79
5	MODIFIED DCO 100874	EM	EB	1/24/79
6	CODE 10 REL W/O CHANGES PER DCO 10498	BM	EB	4/6/80

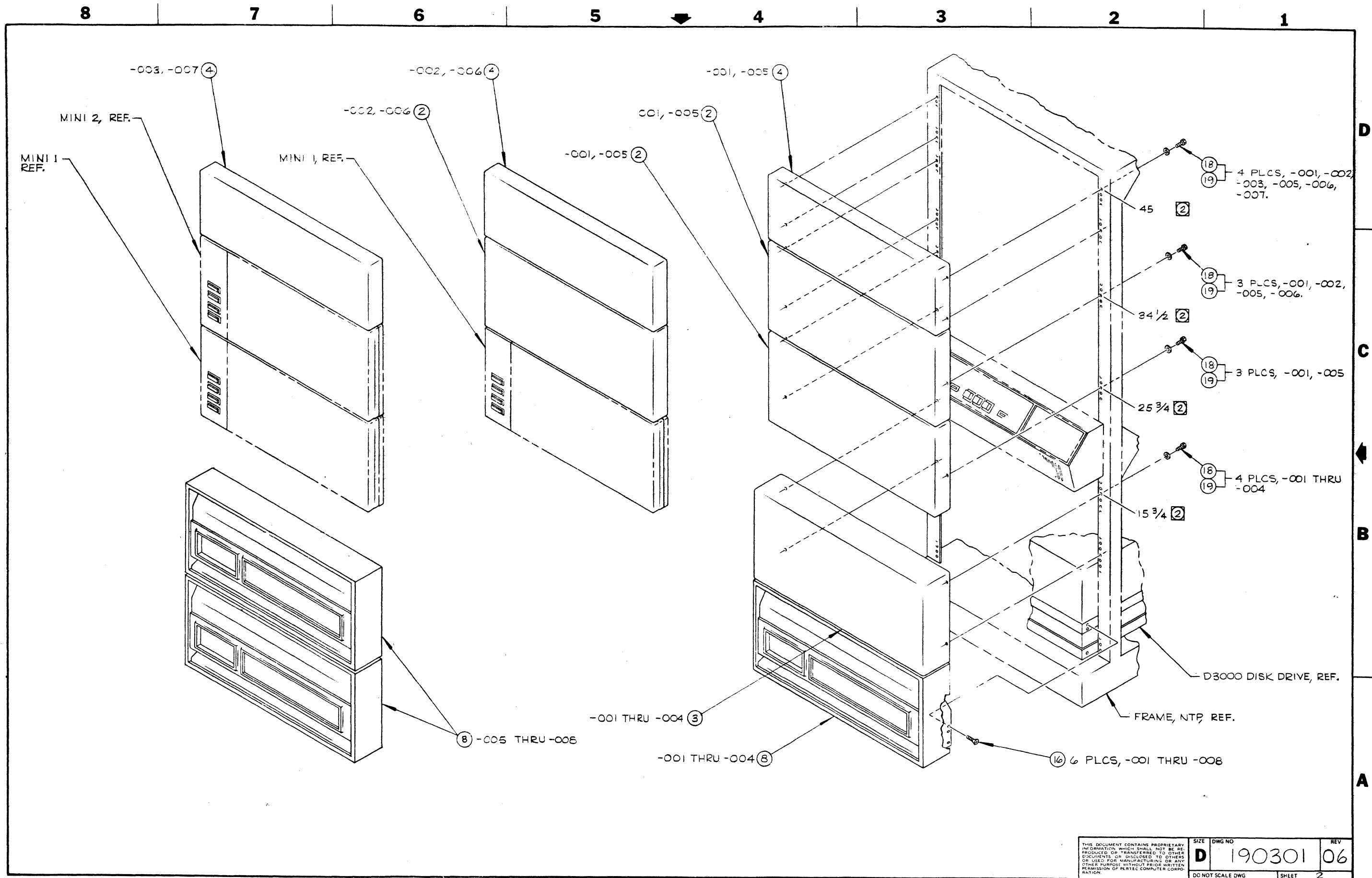


- NOTE: UNLESS OTHERWISE SPECIFIED**
- 1 INSTALL 4 SPRING CLIPS ON VERTICAL FLANGE OF BOTH SIDE PANELS APPROX. 9.40 INCHES APART. INSTALL 2 SPRING CLIPS ALONG TOP FLANGE OF BOTH SIDE PANELS APPROX. 12.63 INCHES APART.
  - 2 DIMENSIONS SHOWN ARE TO BE MEASURED UPWARDS FROM THE BOTTOM HOLE TO THE NEAREST 1/16".
  - 3 INSTALL 3 SPRING CLIPS ON EACH VERTICAL FLANGE BEGINNING 5.90 INCHES UP FROM THE BOTTOM, 13.50 INCHES APART.
  - 4 FOR ITEMS CODED ○, REFER TO OPTIONAL COLOR KIT, UNIVAC, M/L.
  - 5 ITEMS CODED □ REFER TO TOP ASSY M/L

ITEMS SHOWN ARE COMMON TO ALL DASH NO.'S.

ITEM NO.	QTY	REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION
MATERIAL LIST				
UNLESS OTHERWISE SPECIFIED				
1 TOLERANCES				
** .000 ANGULAR				
*** .010 .030				
2 REMOVE ALL BURRS				
3 BREAK ALL SHARP EDGES				
D10 APPROX				
4 MACH SURFACES 125/08				
5 SETTER				
6 INTERPRET DWG PER M. D 1000				
6 DIM ARE IN INCHES				
DRAWN: Bob Emmert 4-8-79				
CHECK: T. Smith 7-23-79				
APPR: [Signature] 9-23-79				
RELEASE: [Signature] 7-26-80				
TITLE: OPTICAL COLOR KIT INSTALLATION DWG				
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MATERIAL		CODE IDENT NO	SIZE	DWG NO
NEXT ASSY QTY		D		190301
MODEL QTY				06
FINISH				
APPLICATION				
SCALE: 1/4		DO NOT SCALE DWG		SHEET 1 OF 3

D  
C  
B  
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	D	190301	06
DO NOT SCALE DWG		SHEET	2

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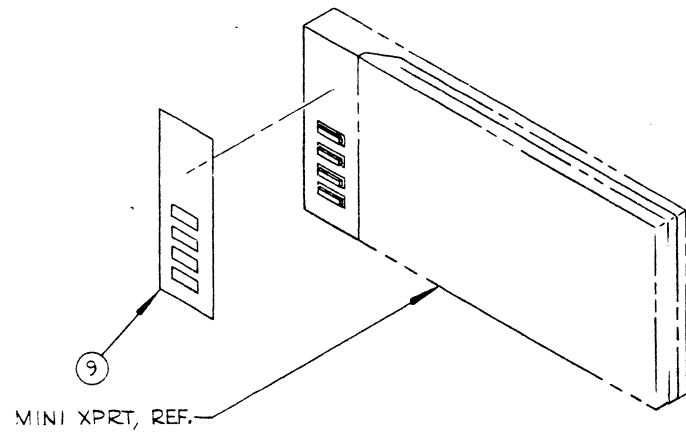
D

C

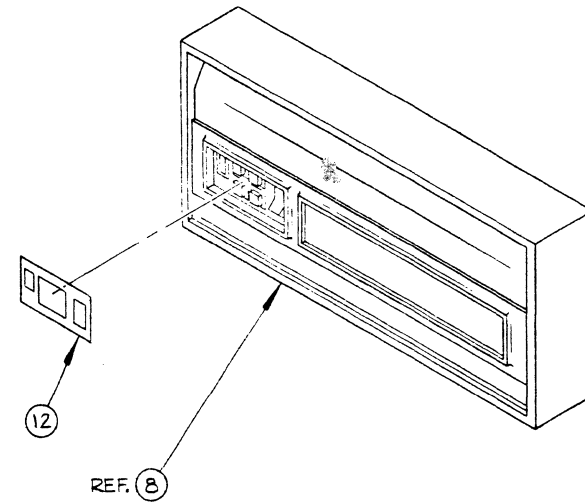
B

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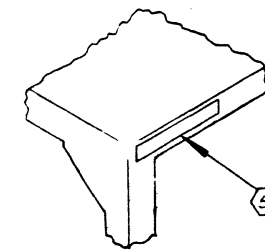
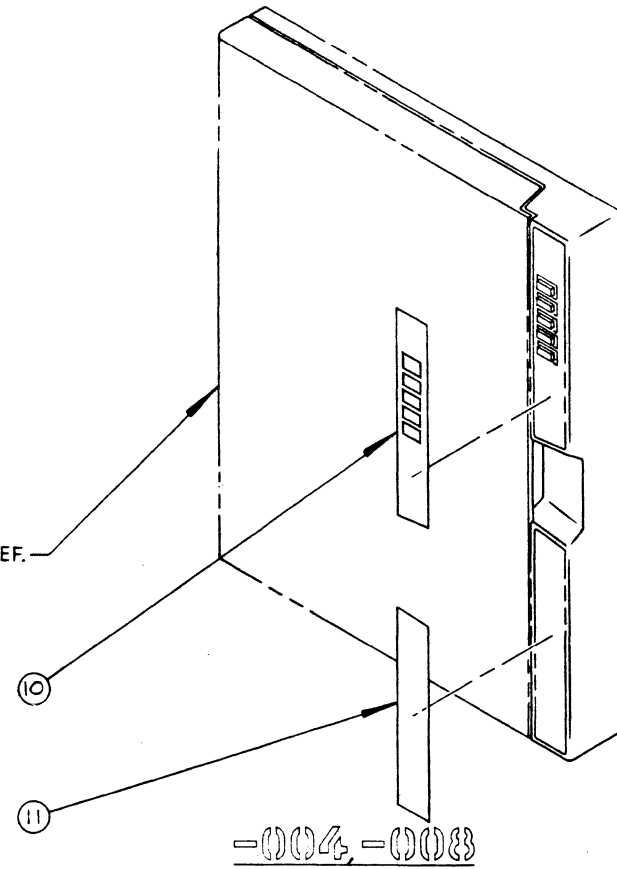
-002, -003,  
-006, -007



-001 THRU -008



MAXI XPRT, REF.



VIEW A

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR TRANSMITTED TO OTHER PERSONS, OR DISCLOSED TO OTHERS OR USED FOR MANUFACTURING OR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN PERMISSION OF PERTEC COMPUTER CORPORATION.	SIZE	DWG NO	REV
	D	190301	06
DO NOT SCALE DWG		SHEET	3

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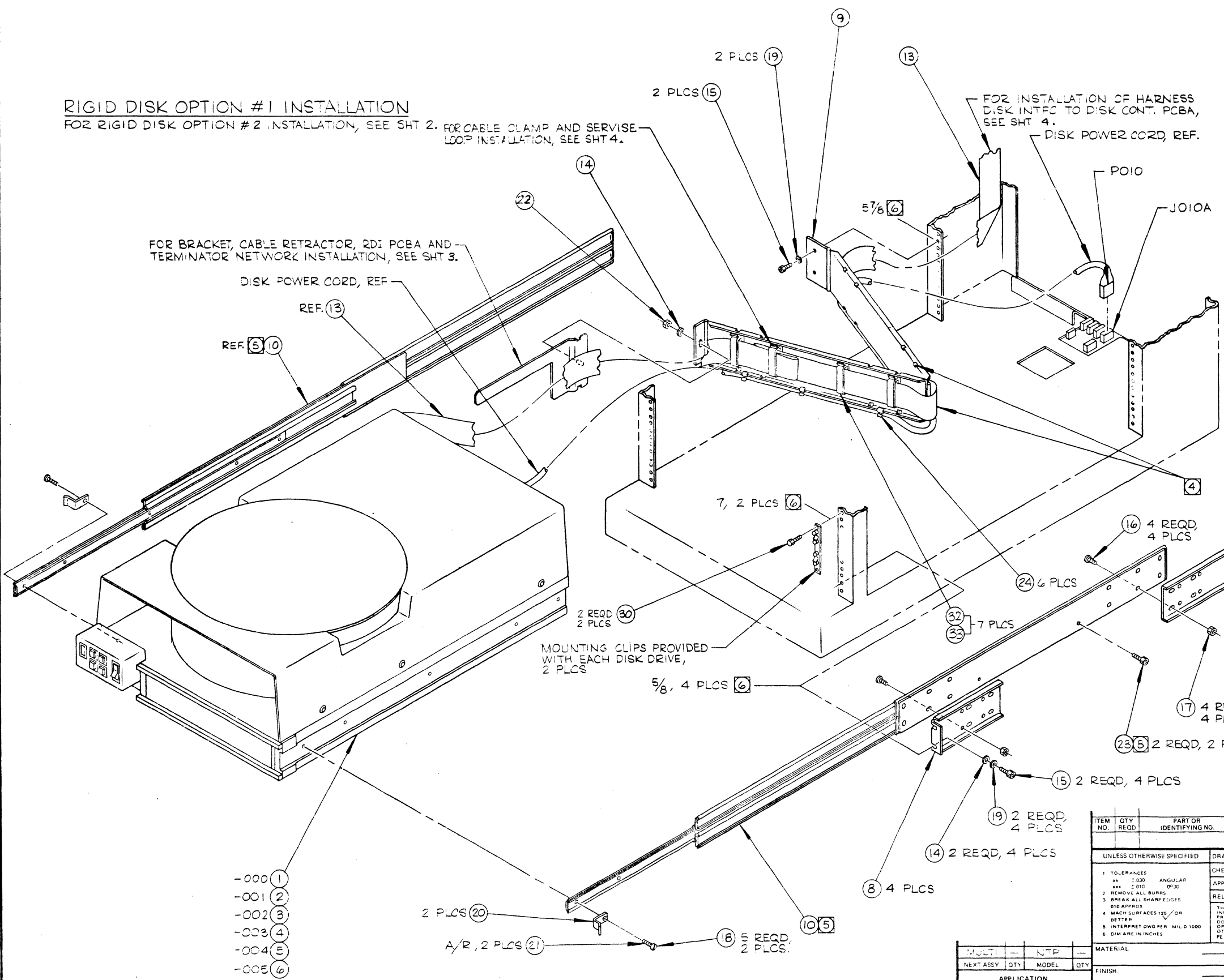
2

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REVISIONS			
REV	DESCRIPTION	DRFTG	APPROVED
1	RELEASE PER DRO		EB 8/1/79
2	CODE 10 REL W/O CHANGES PER DCO 10495	EM	EB 4/6/80

**RIGID DISK OPTION #1 INSTALLATION**

FOR RIGID DISK OPTION #2 INSTALLATION, SEE SHT 2. FOR CABLE CLAMP AND SERVICE LOOP INSTALLATION, SEE SHT 4.



- NOTE: UNLESS OTHERWISE SPECIFIED**
1. REFERENCE CABLE DIAGRAM, CCU, 121184.
  2. FOR ITEMS CODED ○, REFER TO RIGID DISK OPTION KIT #1 (D3422) OR RIGID DISK OPTION KIT #1 (D3462).
  3. FOR ITEMS CODED □, REFER TO RIGID DISK OPTION KIT #2 (D3422) OR RIGID DISK OPTION KIT #2 (D3462).
  4. PROVIDE 6.0 ± .05 SERVICE LOOP FOR HARNESS DISK INTFC, BETWEEN MOUNTING SLOTS ON EITHER SIDE OF HINGE.
  5. SLIDE SHOWN FULLY EXTENDED.
  6. MOUNTING HOLE LOCATIONS ARE MEASURED UPWARDS FROM THE BOTTOM HOLE TO THE NEAREST 1/16".
  7. DISK DRIVE TO ASSEMBLED PER ELECTROMECHANICAL WORKMANSHIP ASSY STANDARD 170475.
  8. 22-26 INCH/LBS OF TORQUE MUST BE APPLIED TO INDICATED SCREWS.
  9. WHEN INSTALLING SECOND DISK, REMOVE TERMINATORS FROM FIRST RDI BOARD AND RE-INSTALL ON THE SECOND RDI BOARD.

- 000 (1)
- 001 (2)
- 002 (3)
- 003 (4)
- 004 (5)
- 005 (6)

ITEM NO.	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION
MATERIAL LIST			
UNLESS OTHERWISE SPECIFIED		DRAWN	Doc Simmons 4-7-79
1 TOLERANCES		CHECK	TL PFEUWZE 7-31-79
XX .000 ANGULAR		APPR	R. Sch. 2-31-79
XXX .010		RELEASE	Doc Simmons 8/1/79
2 REMOVE ALL BURRS		THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR TRANSMITTED TO OTHERS WITHOUT THE WRITTEN PERMISSION OF PERTEC BUSINESS SYSTEMS	
3 BREAK ALL SHARP EDGES		PERTEC BUSINESS SYSTEMS	
4 MACH SURFACES 125 / OR BETTER		RIGID DISK OPTION INSTALLATION DWG	
5 INTERPRET DWG PER MIL-D-1000		CODE IDENT NO	SIZE DWG NO
6 DIM ARE IN INCHES		12	D 190309 02
MULTI		MATERIAL	REV
NEXT ASSY		FINISH	1
APPLICATION		SCALE: 4/16" = 1" DO NOT SCALE DWG	SHEET 1 OF 4

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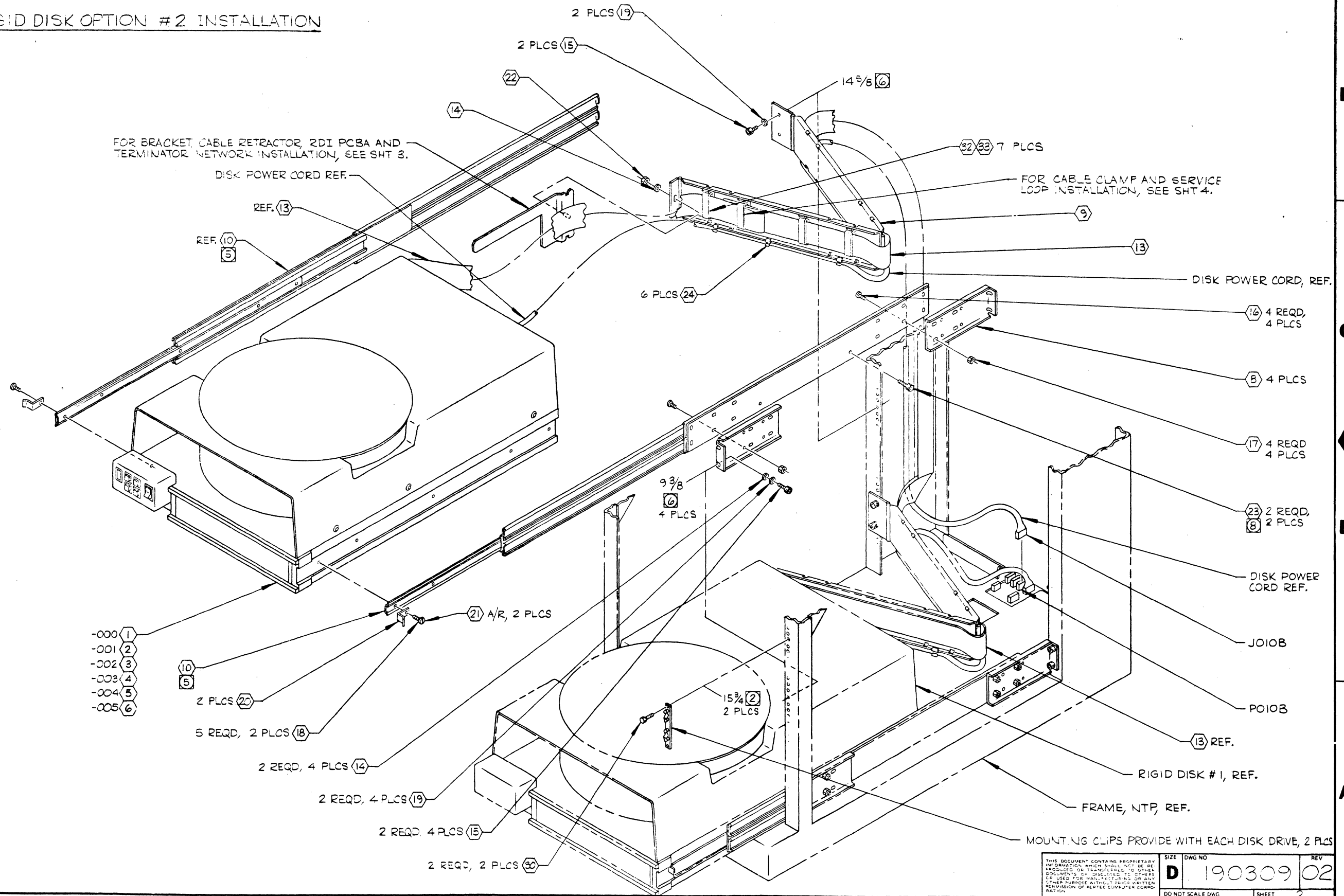
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# RIGID DISK OPTION #2 INSTALLATION



- 000 1
- 001 2
- 002 3
- 003 4
- 004 5
- 005 6

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	D	190309	02
DO NOT SCALE DWG		SHEET	2

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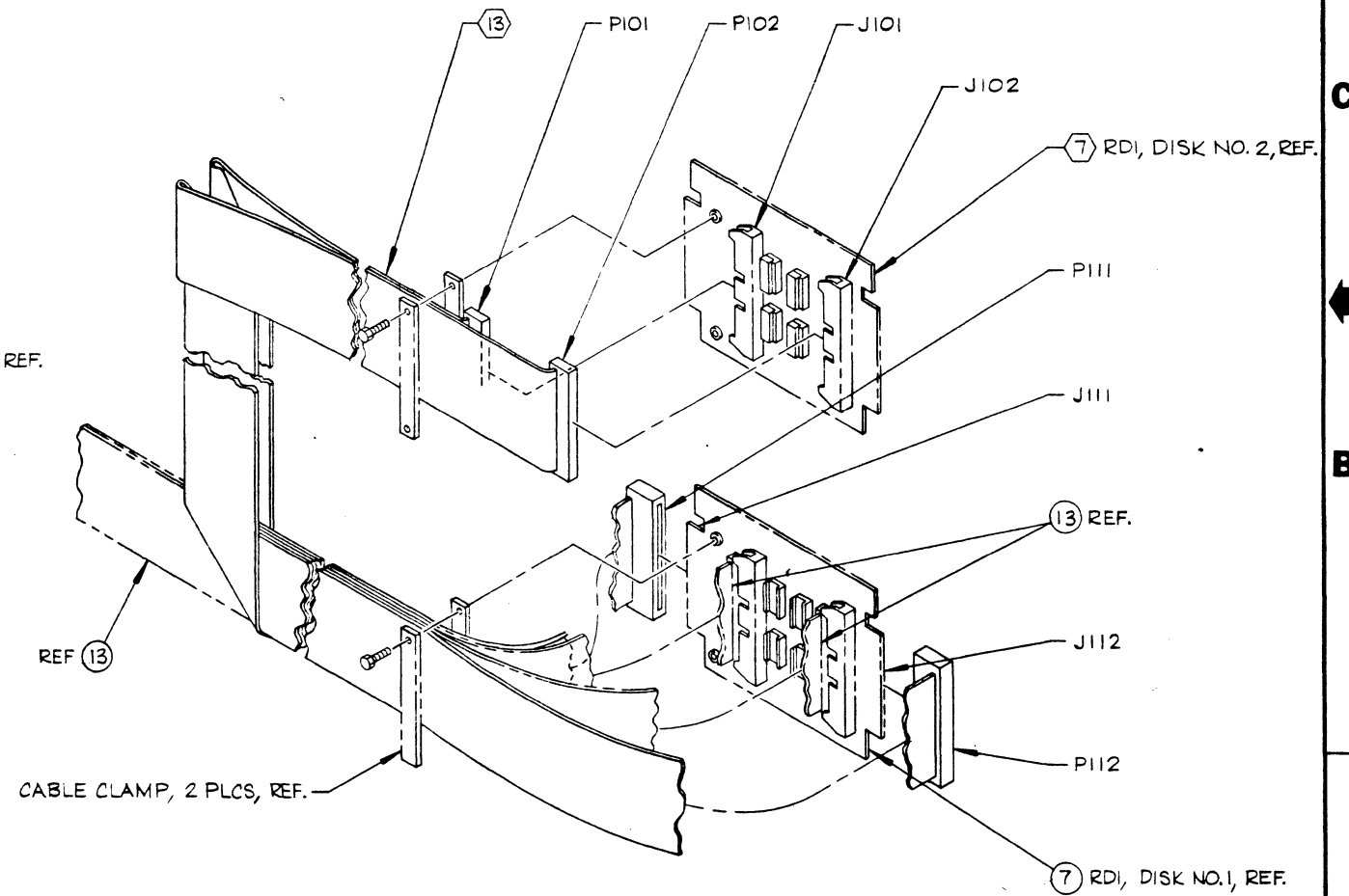
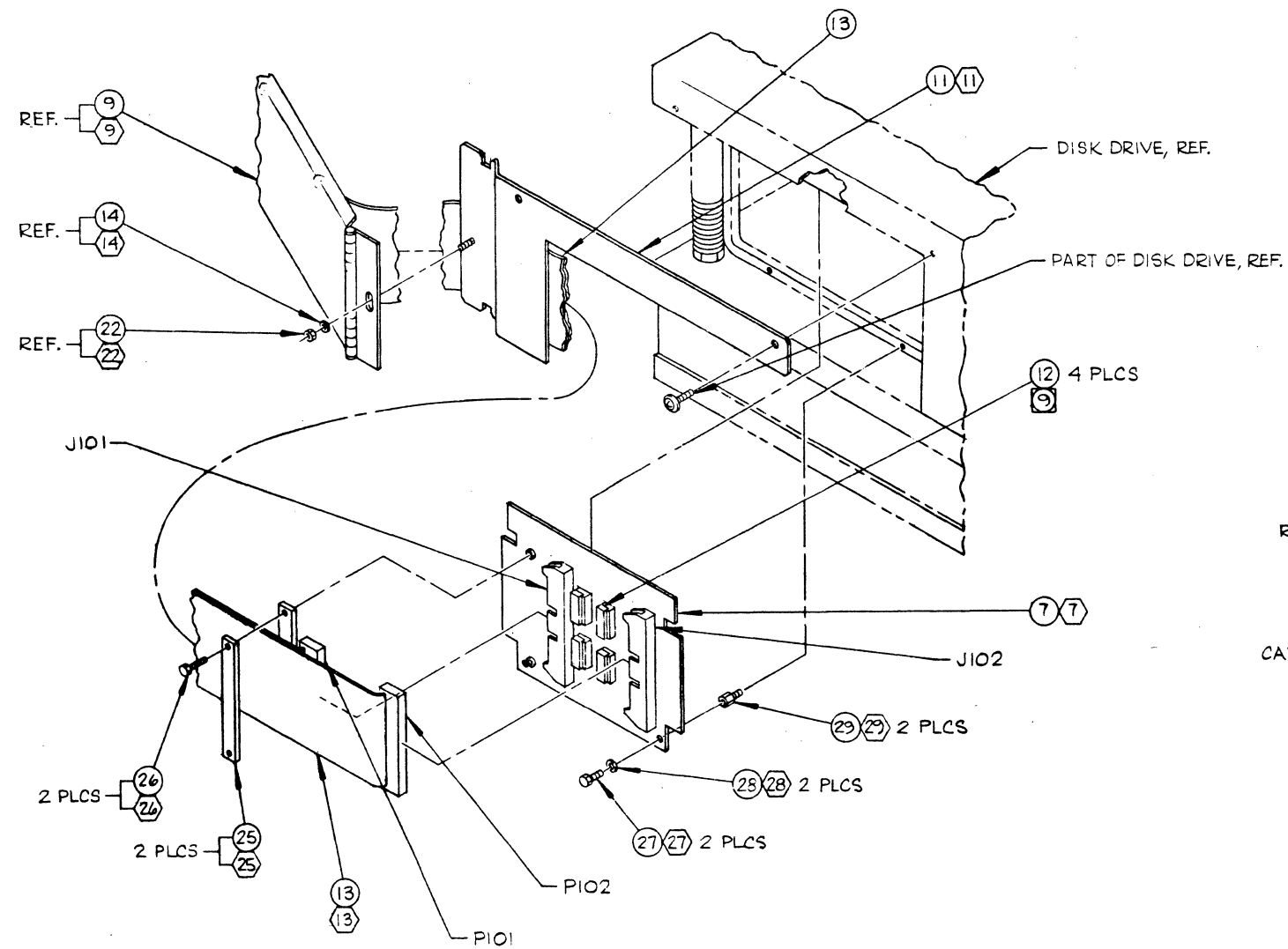
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### BRACKET CABLE RETRACTOR, RDI PCBA AND TERMINATOR NETWORK INSTALLATION

FOR CABLE R/D INTERCONNECT, SEE CABLE  
R/D INTERCONNECT INSTALLATION

### CABLE R/D INTERCONNECT INSTALLATION

NOTE: CABLE RETRACTORS AND RIGID  
DISKS NOT SHOWN FOR CLARITY.



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	D	190309	02
DO NOT SCALE DWG		SHEET	3

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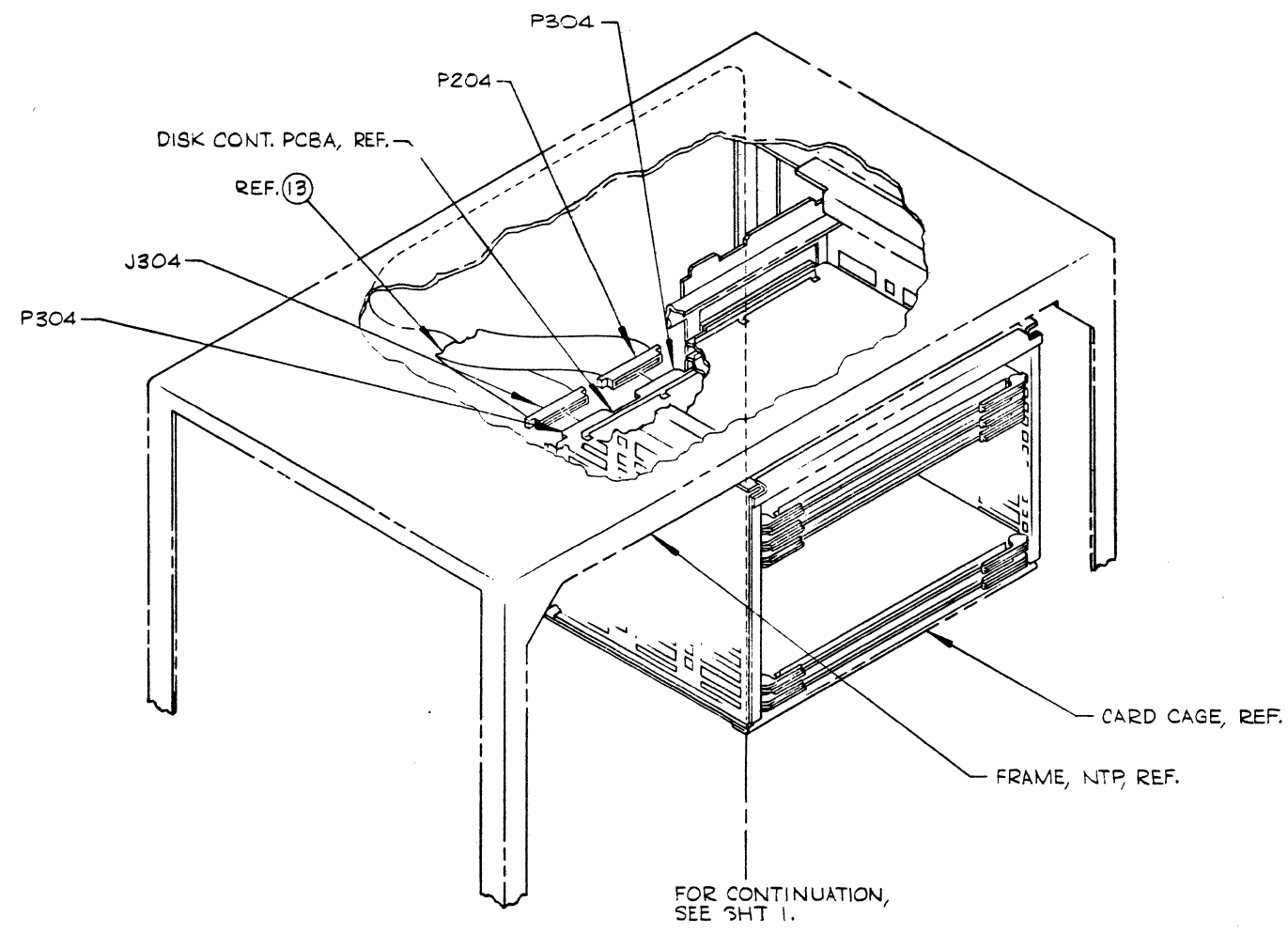
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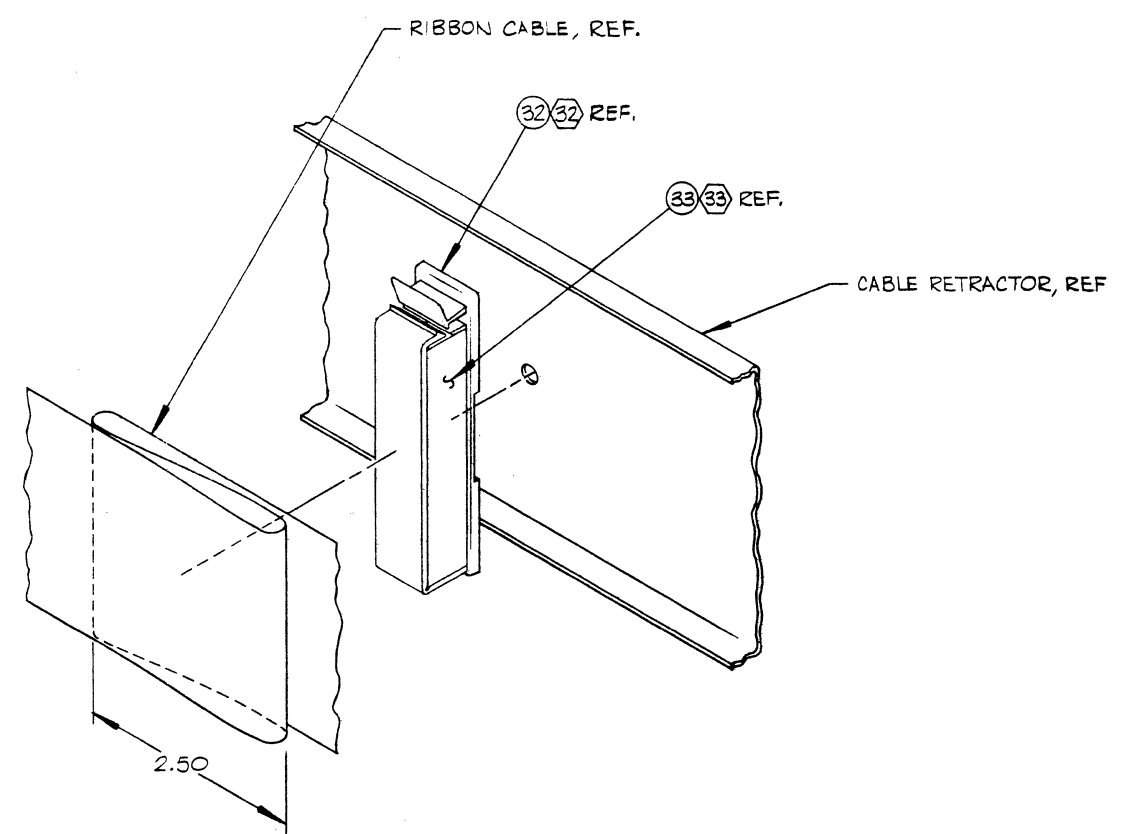
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HARNESS, DISK INTFC TO DISK  
CONT PCBA INSTALLATION



CABLE CLAMP AND SERVICE LOOP  
INSTALLATION

<small>THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR TRANSMITTED TO OTHER DOCUMENTS OR DISCLOSED TO OTHERS OR USED FOR MANUFACTURING OR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN PERMISSION OF PERTEC COMPUTER CORPORATION.</small>	SIZE	DWG NO	REV
	D	190309	02
DO NOT SCALE DWG		SHEET	4

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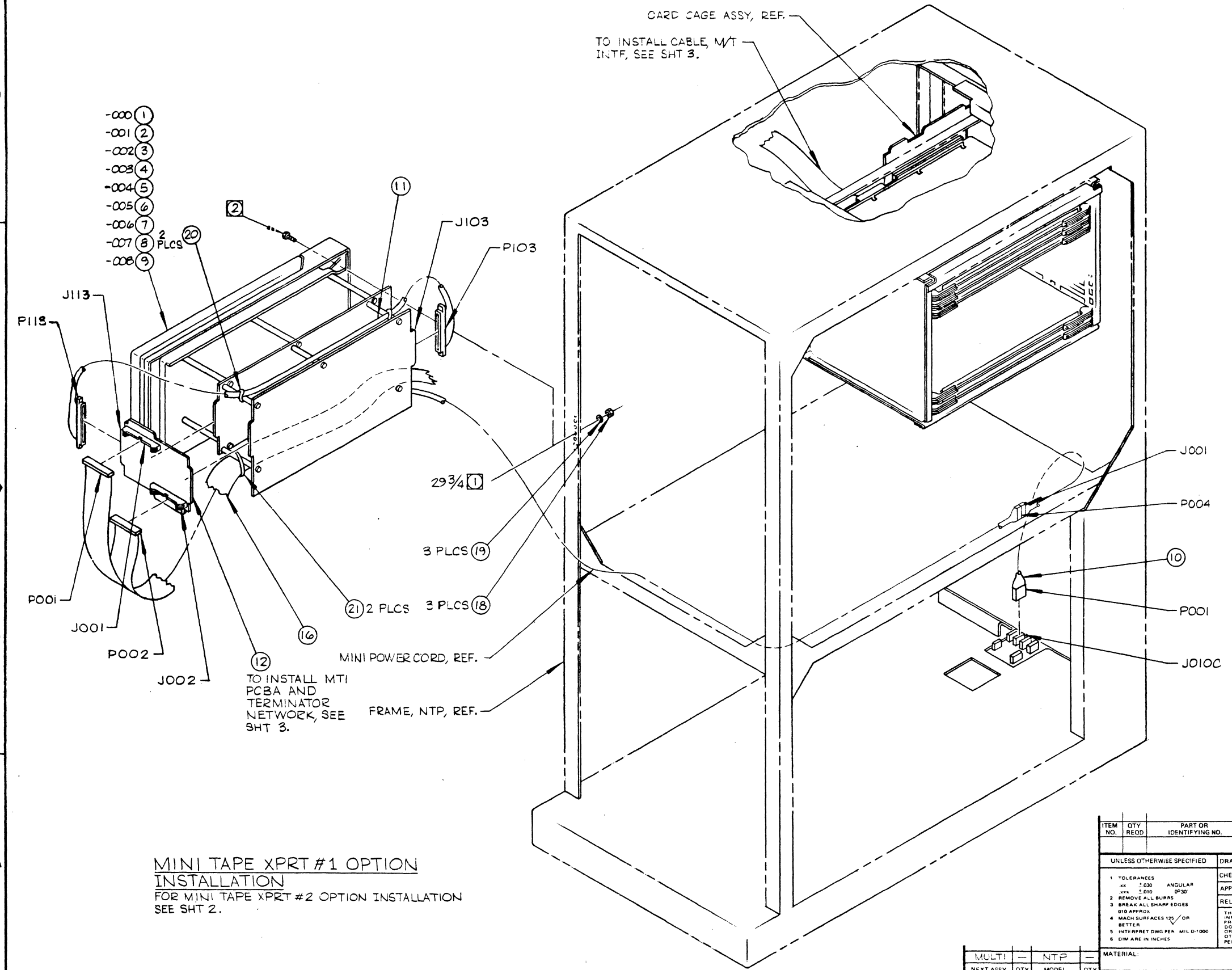
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REVISIONS				
SYM	DESCRIPTION	DRFTG	APPROVED	DATE
01	RELEASE PER DRO		EB	7/26/79
02	INCORP DCO 09247		BM	7/27/79
03	CODE 10 REL W/0 CHANGES PER DCO 10498		BM	8/1/79
			EB	4/1/80



- NOTE : UNLESS OTHERWISE SPECIFIED**
- 1 MOUNTING HOLE LOCATIONS ARE MEASURED UPWARDS FROM THE BOTTOM HOLE TO THE NEAREST 1/16".
  - 2 HARDWARE PROVIDED WITH TAPE XPRT.
  3. FOR ITEMS CODED ○, REFER TO MINI TAPE TRANSPORT OPTION KIT #1.
  4. FOR ITEMS CODED ◡, REFER TO MINI TAPE TRANSPORT OPTION KIT #2.
  - 5 WHEN INSTALLING SECOND MINI TAPE XPRT, REMOVE TERMINATORS FROM FIRST MTI PCBA AND INSTALL ON SECOND MTI PCBA.
  6. REFERENCE CABLE DIAGRAM, CCU, 121184.

**MINI TAPE XPRT #1 OPTION  
INSTALLATION**  
FOR MINI TAPE XPRT #2 OPTION INSTALLATION  
SEE SHT 2.

ITEM NO.	QTY RECD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION
MATERIAL LIST			
UNLESS OTHERWISE SPECIFIED		DRAWN	Bob Simmons 4-27-79
1 TOLERANCES		CHECK	EB 7-24-79
XX .030 ANGULAR		APPR	R. Bussell 7-24-79
XXX .010 0°30'		RELEASE	EB 7/26/79
2 REMOVE ALL BURRS		THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR TRANSMITTED TO OTHER DOCUMENTS OR DISCLOSED TO OTHERS OR USED FOR MANUFACTURING OR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN PERMISSION OF PERTEC BUSINESS SYSTEMS	
3 BREAK ALL SHARP EDGES		<b>BUSINESS SYSTEMS</b> <small>A Division of Permut Corporation</small> <b>MINI TAPE TRANSPORT OPTION INSTALLATION</b>	
4 MACH SURFACES 125 / OR BETTER			
5 INTERPRET DWG PER MIL-D-1000			
6 DIM ARE IN INCHES			
MULTI - NTP -		MATERIAL:	CODE IDENT NO.
NEXT ASSY QTY MODEL QTY		FINISH:	SIZE DWG NO
APPLICATION			REV
			D 190311 03
			SCALE 1/8" = 1" NOTED DO NOT SCALE DWG SHEET 1 OF 3



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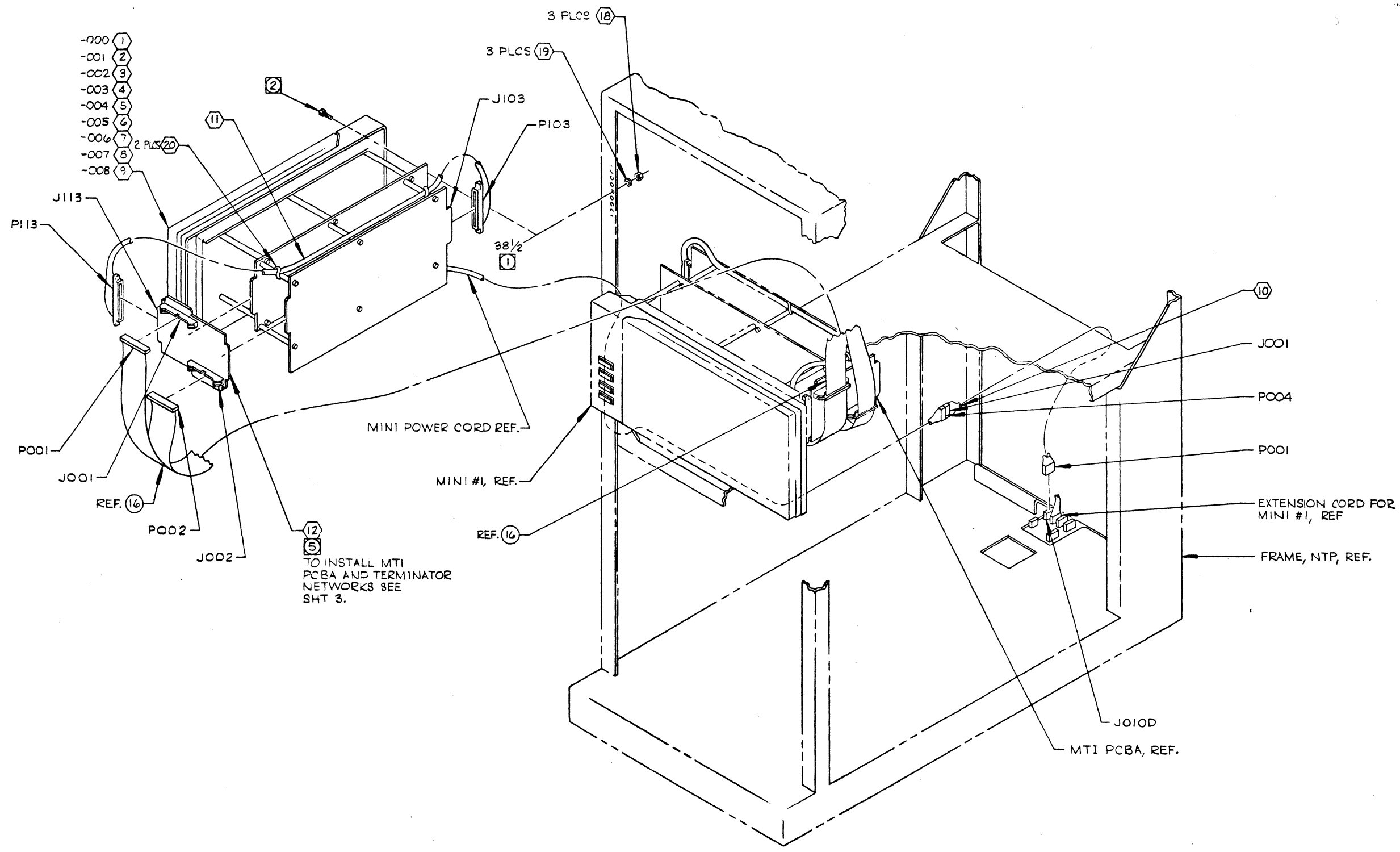
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- 000 ①
- 001 ②
- 002 ③
- 003 ④
- 004 ⑤
- 005 ⑥
- 006 ⑦
- 007 ⑧
- 008 ⑨



MINI TAPE XPRT #2 OPTION  
INSTALLATION

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	D	190311	03
DO NOT SCALE DWG		SHEET 2	

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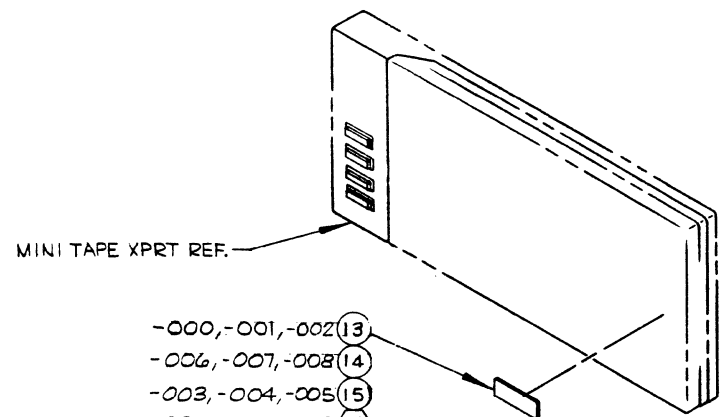
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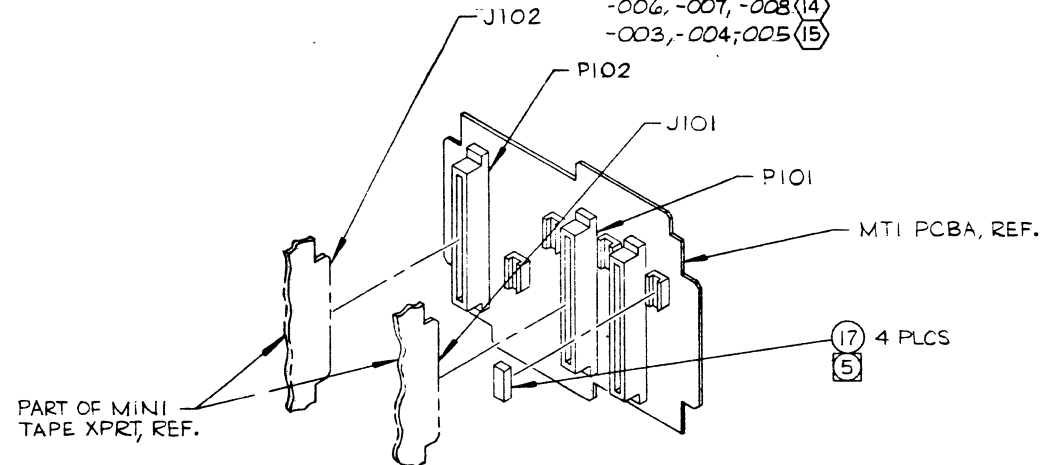
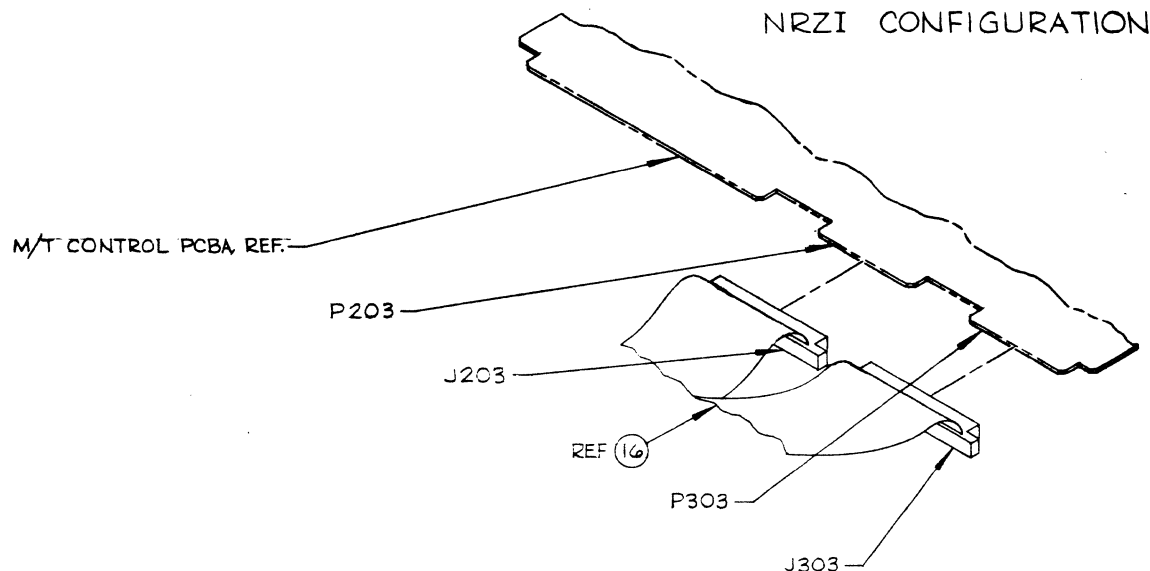
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### TRANSPORT LABEL INSTALLATION

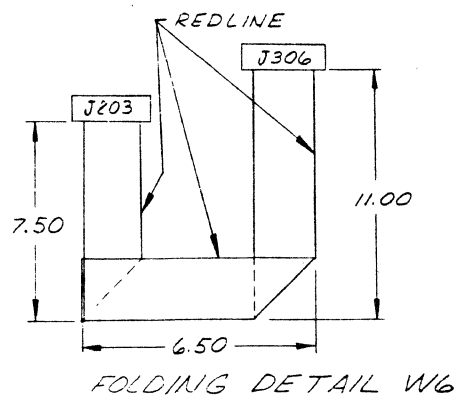


### M/T INTERFACE CABLE INSTALLATION

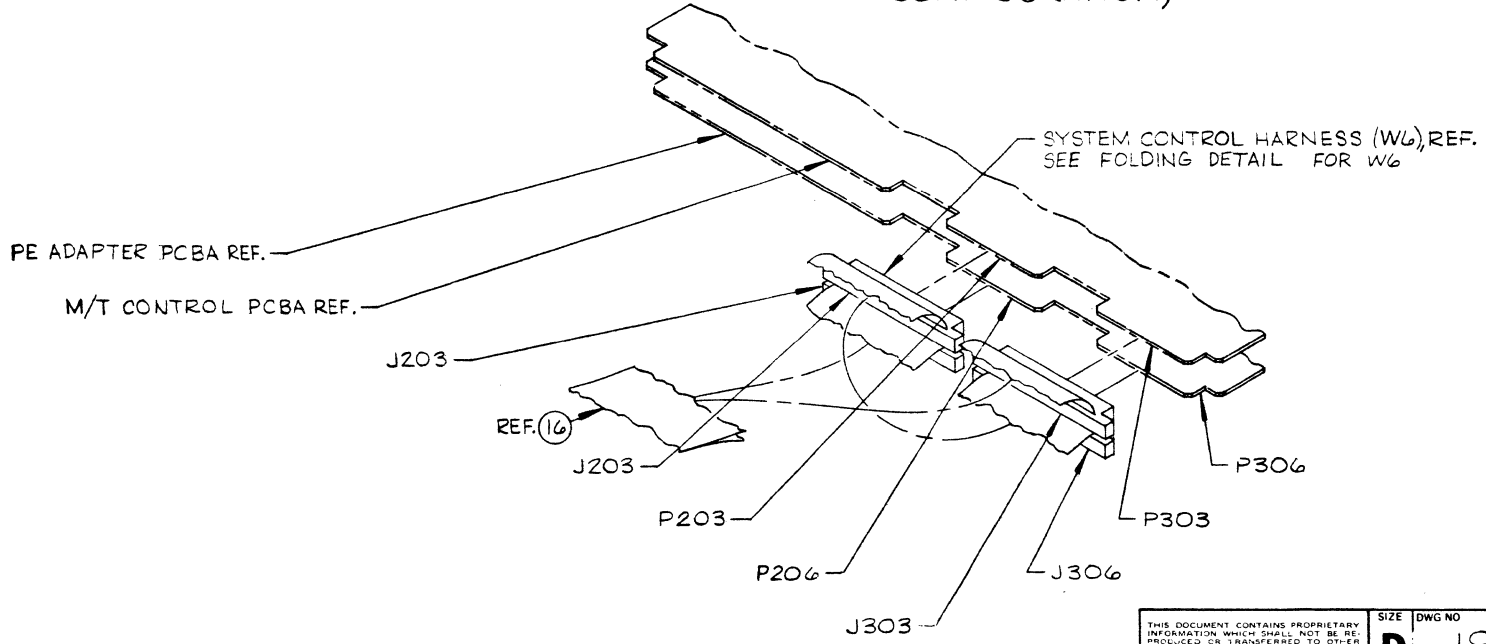
NOTE: CARD CAGE AND FRAME NOT SHOWN, DELETED FOR CLARITY.



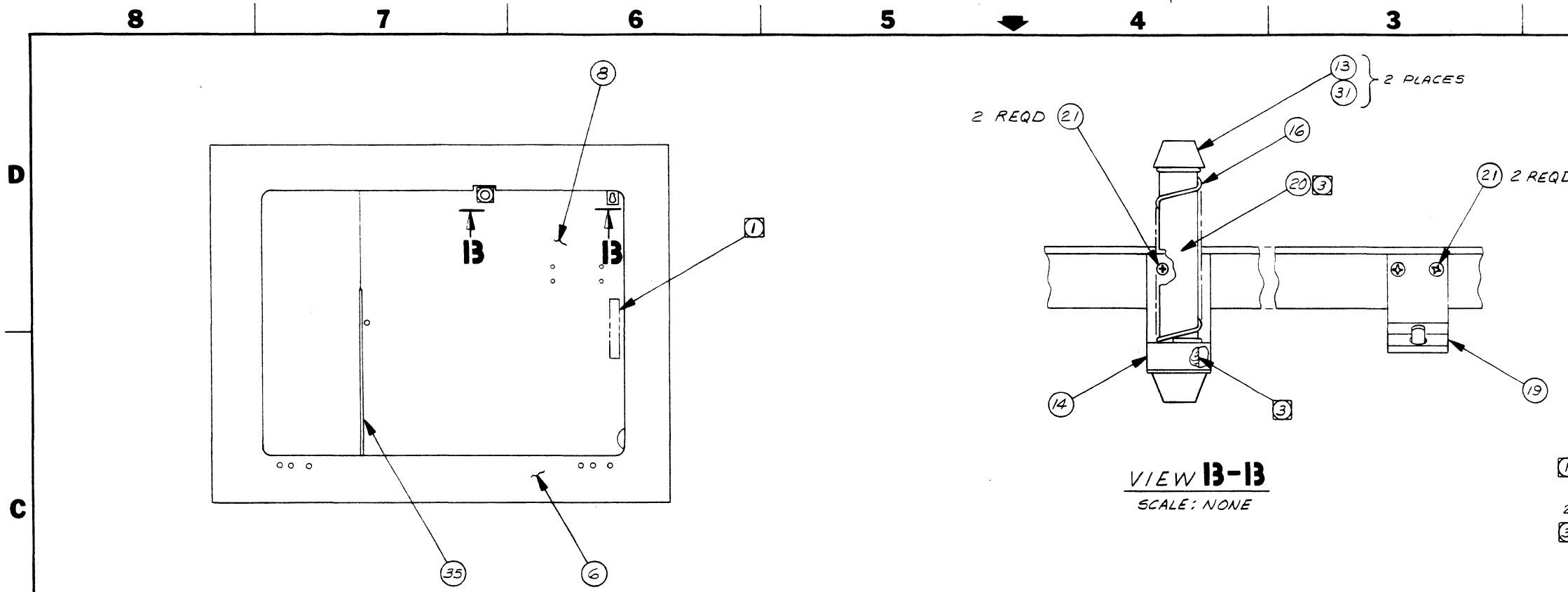
### MTI PCBA AND TERMINATOR NETWORK INSTALLATION



### PE CONFIGURATION (OR PE AND NRZI CONFIGURATION)



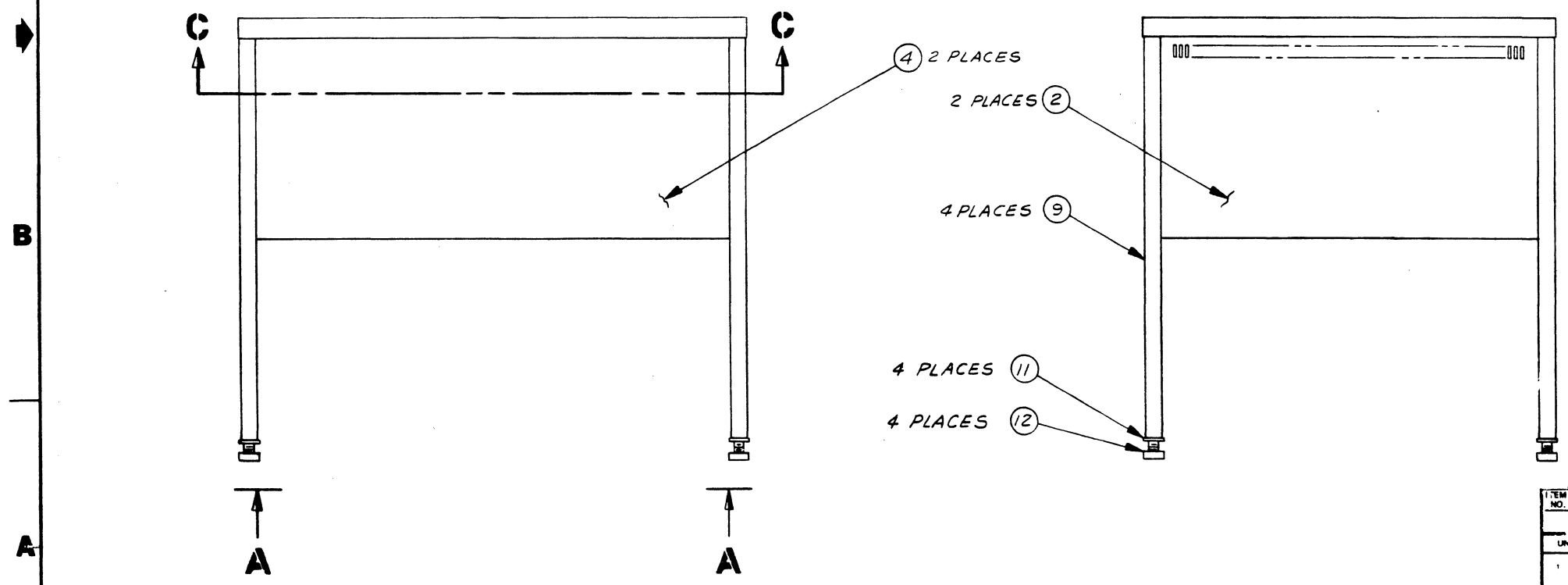
THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHOULD NOT BE REPRODUCED OR TRANSMITTED TO OTHERS WITHOUT THE WRITTEN PERMISSION OF PERTEC COMPUTER CORPORATION.	SIZE	DWG NO	REV
	D	190311	03
DO NOT SCALE DWG		SHEET	3



REVISIONS				
SYM	DESCRIPTION	DRAFT	APPROVED	DATE
01	RELEASE PER DRO		SB	6/24/79
02	CODE 06 REL W/O CHANGES PER D.C. 09237	BM	SB	7/30/79
03	INCRP DCO 09285	BM	JR SB	1/27/80
04	INCRP DCO 09986	F.C.	MP SB	1/12/80
05	CODE 10 REL W/O CHANGE PER DCO 10496		SB	4/8/80
06	INCRP DCO 10794	F.C.	TR SB	6/16/80

**VIEW B-B**  
SCALE: NONE

- NOTE: UNLESS OTHERWISE SPECIFIED**
- 1 MARK ASSY NO. PER SPECIFICATION 100034 (RUBBER STAMP).
  - 2.
  - 3 APPLY SILICONE GREASE (ITEM 26) TO MANDREL (ITEM 20).



ITEM NO.	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION
MATERIAL LIST			
UNLESS OTHERWISE SPECIFIED		DRAWN	5/17/79
1 TOLERANCES	ANGULAR	CHECK	6-7-79
14 ±.000	0°30'	APPR	2-18-79
2 REMOVE ALL BURRS		RELEASE	6-20-79
3 BREAK ALL SHARP EDGES			
BIG APPROX			
4 MACH SURFACES 125/GR BETTER			
5 INTERPRET DWG PER MIL-D-1000			
6 DIM ARE IN INCHES			
<small>THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR TRANSMITTED TO OTHERS OR USED FOR MANUFACTURING OR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN PERMISSION OF PERTEC BUSINESS SYSTEMS</small>			
MATERIAL		FINISH	
NEXT ASSY		QTY	
MODEL		QTY	
APPLICATION			
CODE IDENT NO	SIZE	DWG NO	REV
D C CODE	10	D 190312	06
SCALE 1/2"=1"	DO NOT SCALE DWG	SHEET 1	OF 2

NTP	
QTY	
MODEL	
QTY	
APPLICATION	

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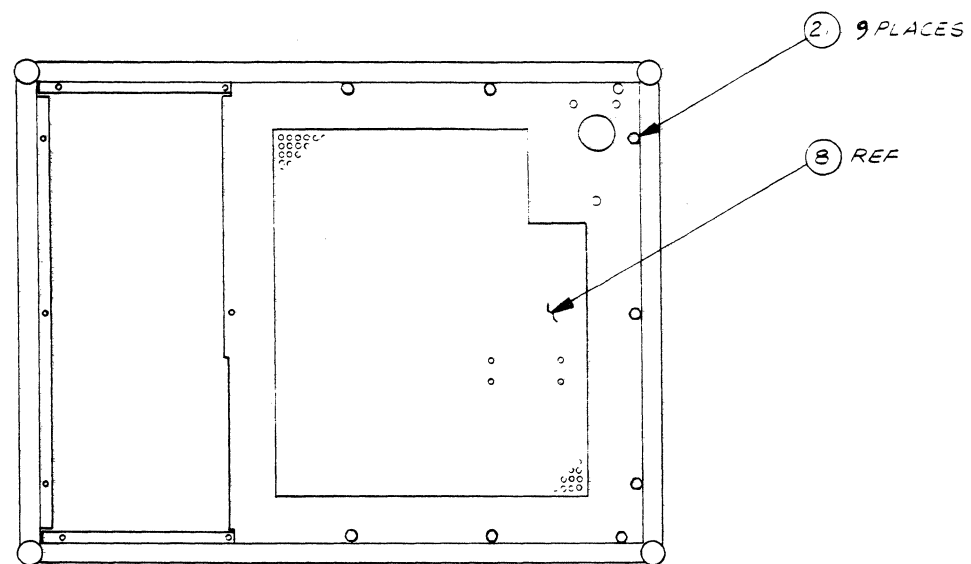
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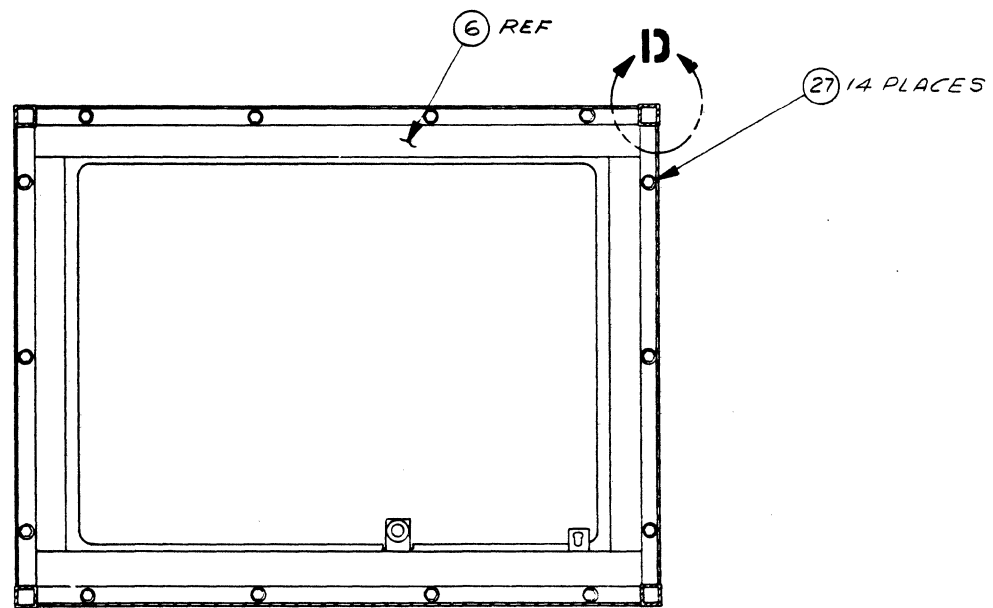
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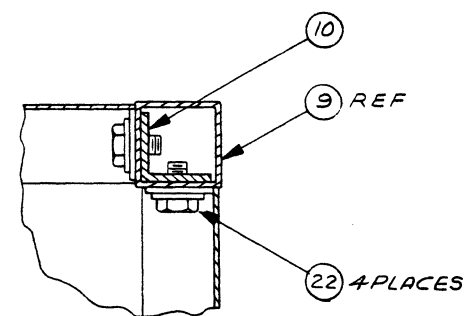
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VIEW A-A

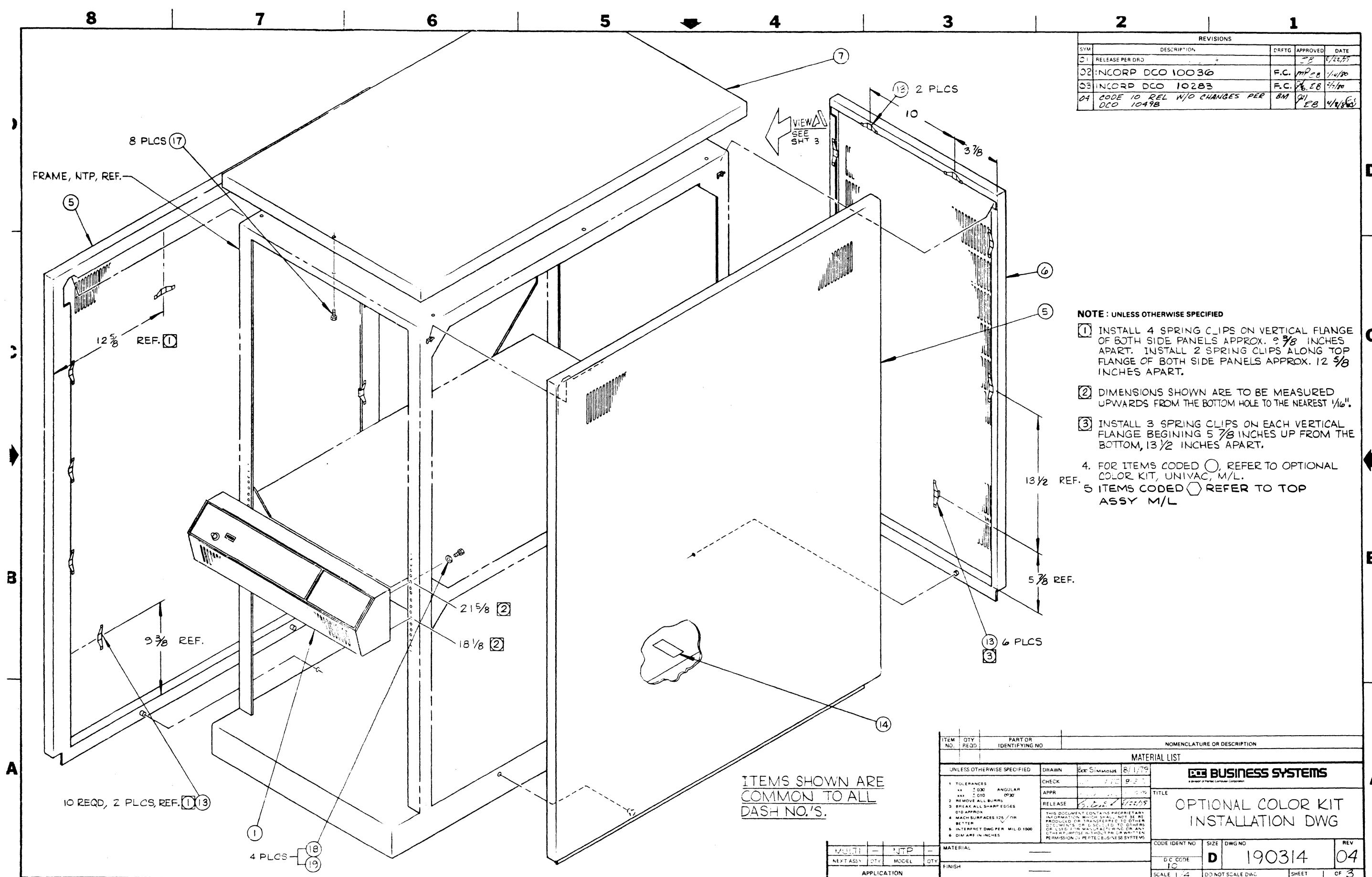


SECTION C-C



DETAIL D  
4 PLACES

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	D	190312	06
DO NOT SCALE DWG		SHEET 2	



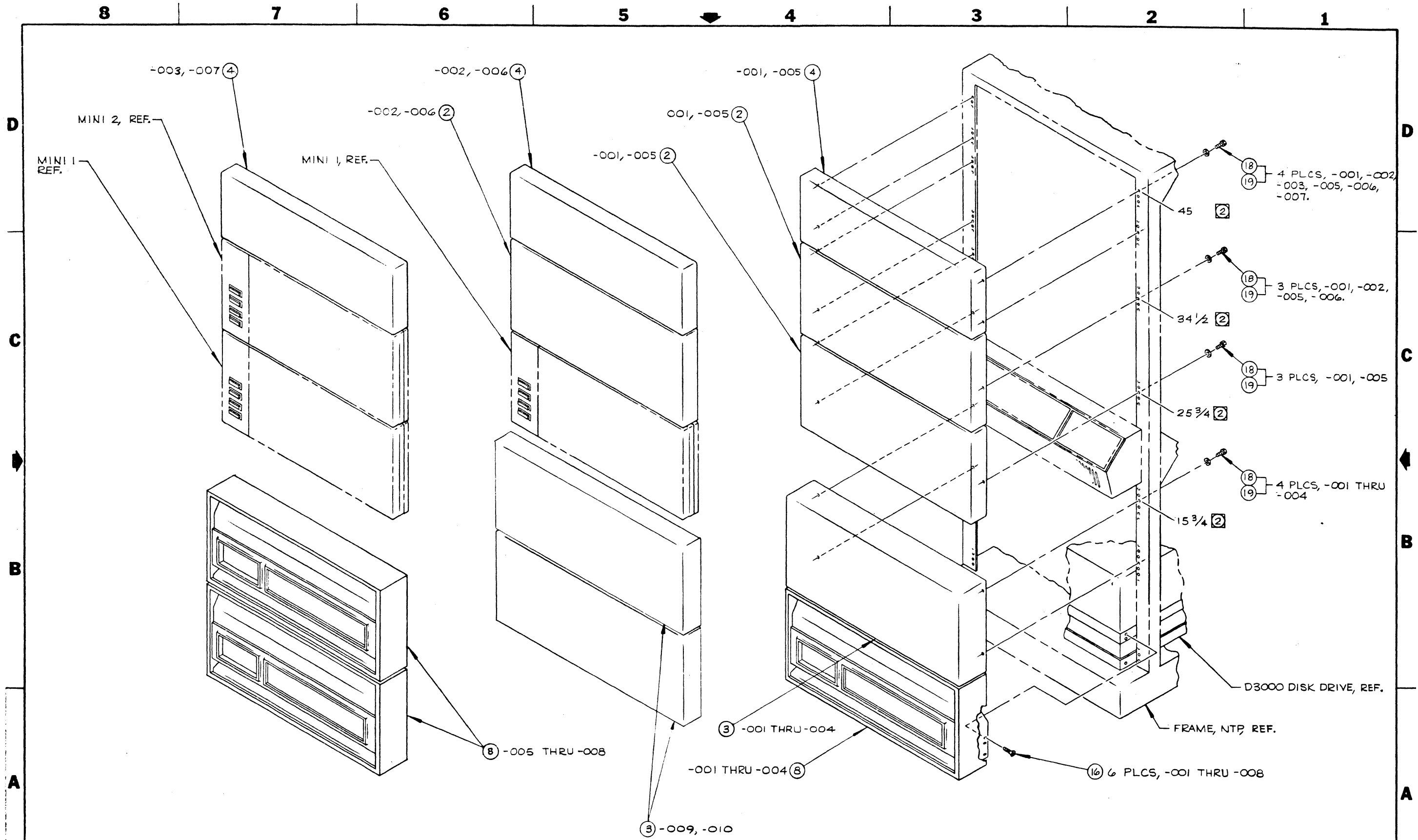
REVISIONS				
SYM	DESCRIPTION	DRAFT	APPROVED	DATE
01	RELEASE PER DRG	EB		8/22/83
02	INCORP DCO 10036	F.C.	mp	1/11/80
03	INCORP DCO 10283	F.C.	EB	3/1/80
04	CODE 10 REL W/O CHANGES PER DCO 10498	BM	EB	4/18/80

- NOTE: UNLESS OTHERWISE SPECIFIED**
- 1 INSTALL 4 SPRING CLIPS ON VERTICAL FLANGE OF BOTH SIDE PANELS APPROX. 9 3/8 INCHES APART. INSTALL 2 SPRING CLIPS ALONG TOP FLANGE OF BOTH SIDE PANELS APPROX. 12 5/8 INCHES APART.
  - 2 DIMENSIONS SHOWN ARE TO BE MEASURED UPWARDS FROM THE BOTTOM HOLE TO THE NEAREST 1/16".
  - 3 INSTALL 3 SPRING CLIPS ON EACH VERTICAL FLANGE BEGINNING 5 7/8 INCHES UP FROM THE BOTTOM, 13 1/2 INCHES APART.
  - 4. FOR ITEMS CODED ○, REFER TO OPTIONAL COLOR KIT, UNIVAC, M/L.
  - 5 ITEMS CODED ◻ REFER TO TOP ASSY M/L

ITEM NO.	QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION
MATERIAL LIST			
UNLESS OTHERWISE SPECIFIED		DRAWN	8/1/79
1 TOLERANCES		CHECK	
+ .000 ANGULAR		APPR	
+ .010		RELEASE	
2 REMOVE ALL BURRS		THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT THE WRITTEN PERMISSION OF UNIVAC BUSINESS SYSTEMS	
3 BREAK ALL SHARP EDGES TO APPROX		UNIVAC BUSINESS SYSTEMS	
4 MACH SURFACES 125 V/GR BETTER		OPTIONAL COLOR KIT INSTALLATION DWG	
5 INTERPRET DWG PER MIL-D-1000		CODE IDENT NO	
6 DIM ARE IN INCHES		SIZE DWG NO	
		D 190314	
		REV 04	
		SCALE 1/4	
		DO NOT SCALE DWG	
		SHEET 1 OF 3	

ITEMS SHOWN ARE COMMON TO ALL DASH NO.'S.

APPLICATION	QTY	MODEL	QTY
MULTI - NTP -			



<small>THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHOULD NOT BE REPRODUCED OR TRANSMITTED TO OTHERS WITHOUT THE WRITTEN PERMISSION OF PERTEC COMPUTER CORPORATION.</small>	SIZE	DWG NO	REV
	D	190314	04
DO NOT SCALE DWG		SHEET	2

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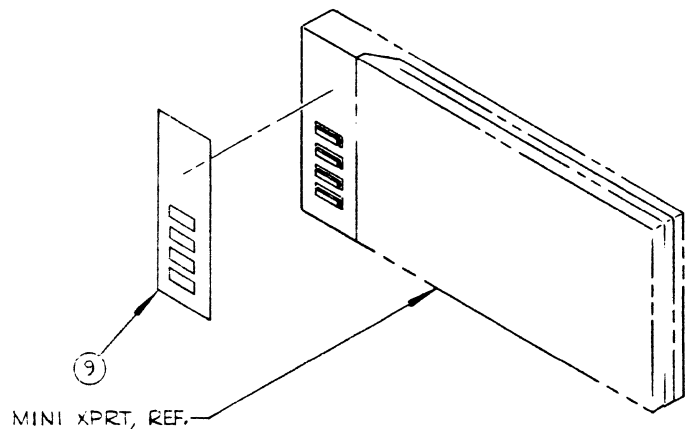
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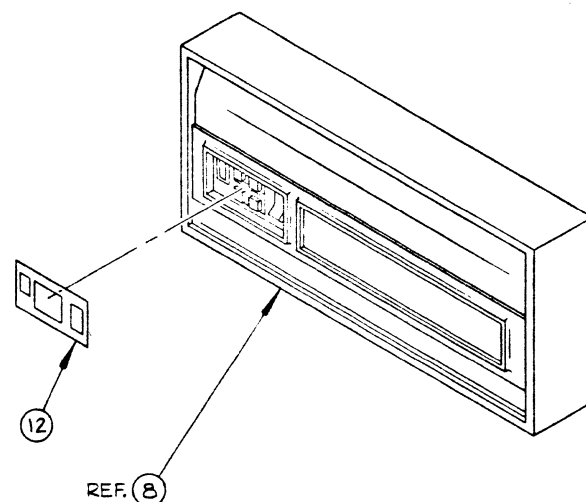
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-002, -003,  
-006, -007

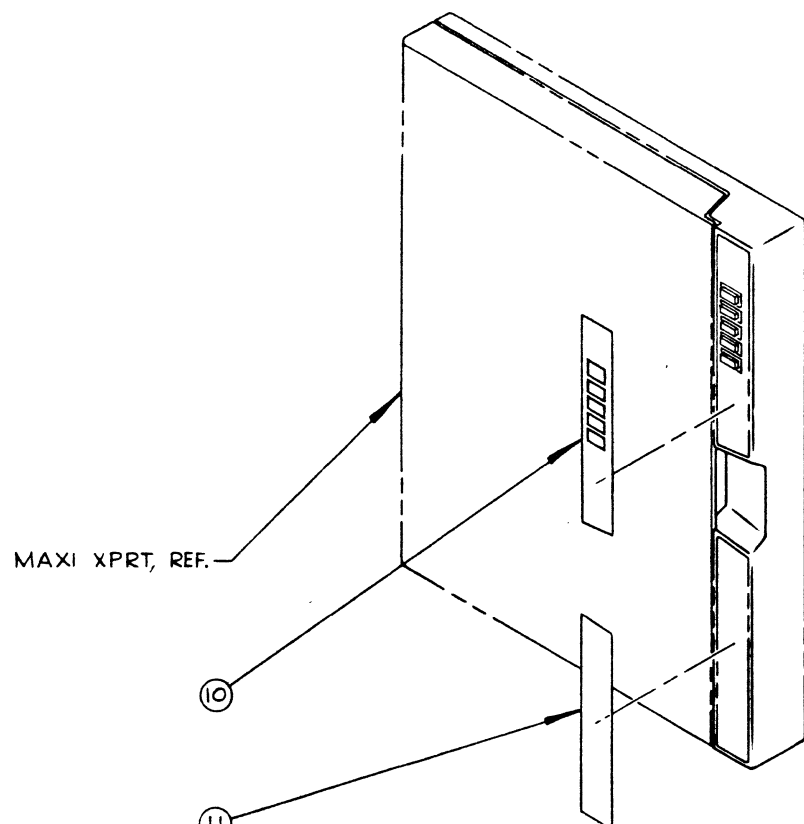
-001 THRU -008



MINI XPRT, REF.

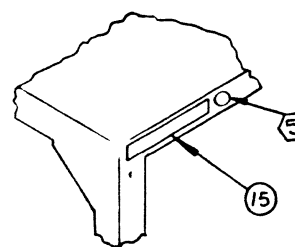


REF. B



MAXI XPRT, REF.

-004, -008, -009



VIEW A

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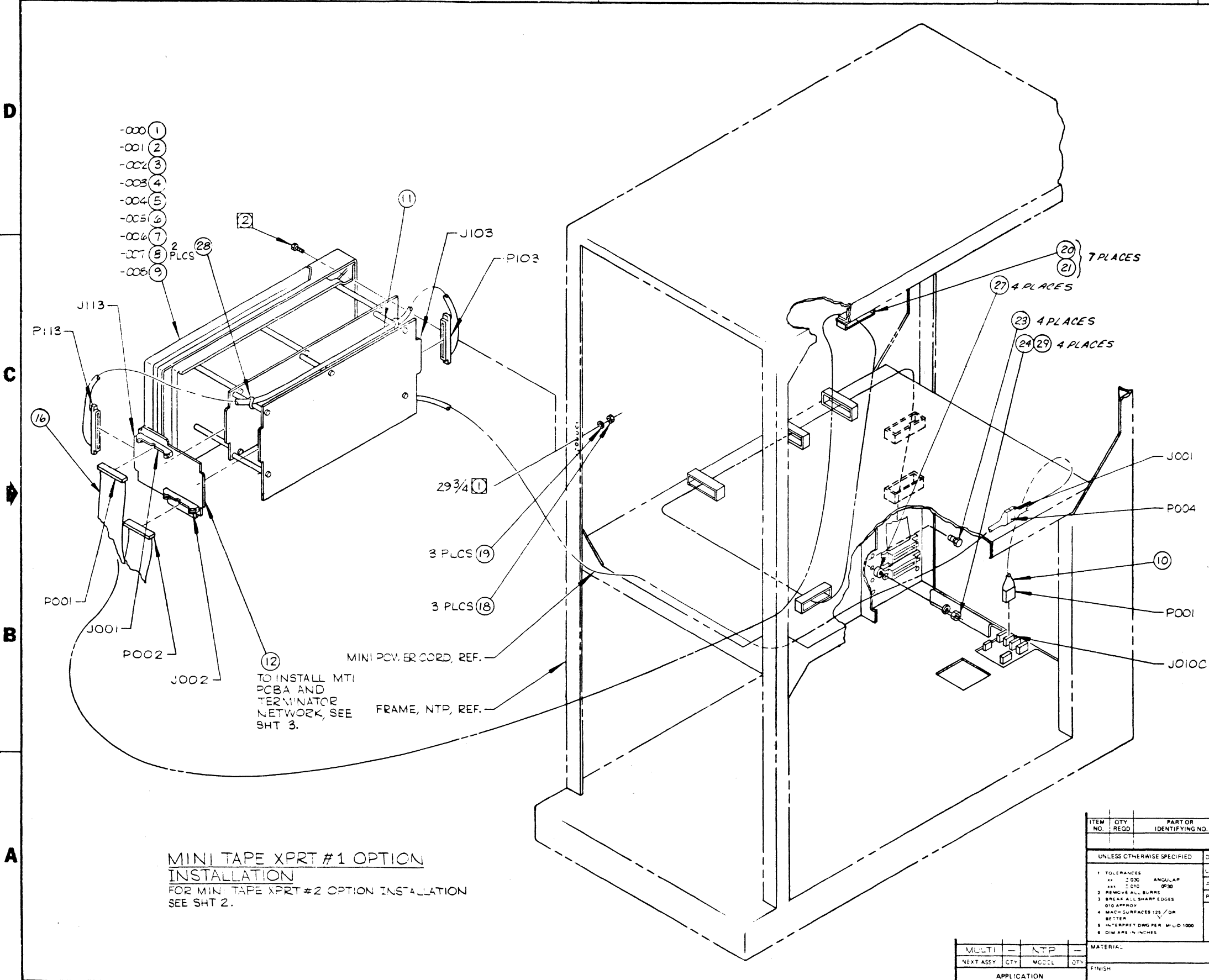
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	D	190314	04
DO NOT SCALE DWG		SHEET	3

8 7 6 5 4 3 2 1

REVISIONS				
REV	DESCRIPTION	DRFTG	APPROVED	DATE
01	RELEASE PER DRG			
02	DCO 10 REL W/O CHANGES PER DCO 10498	BM	EB	4/6/68



- NOTE: UNLESS OTHERWISE SPECIFIED**
- 1 MOUNTING HOLE LOCATIONS ARE MEASURED UPWARDS FROM THE BOTTOM HOLE TO THE NEAREST 1/16".
  - 2 HARDWARE PROVIDED WITH TAPE XPRT.
  3. FOR ITEMS CODED ○, REFER TO MINI TAPE TRANSPORT OPTION KIT #1.
  4. FOR ITEMS CODED ◻, REFER TO MINI TAPE TRANSPORT OPTION KIT #2.
  - 5 WHEN INSTALLING SECOND MINI TAPE XPRT, REMOVE TERMINATORS FROM FIRST MTI PCBA AND INSTALL ON SECOND MTI PCBA.
  6. REFERENCE CABLE DIAGRAM, CCU, 121199.
  - 7 IF BCS CABINET HAS RESIDENT MINI'S, INSTALL WIB (ITEM 22) PER SHT 4. IF THERE IS NO RESIDENT MINI INSTALL WIB PER SHT 3.
  - 8 CLAMP MUST BE INSTALLED OVER EXPOSED BRAID PORTION OF CABLE.
  - 9 WHEN CONNECTING A TAPE/DISK CABINET TO THE BCS CABINET, THE TERMINATORS ON ANY TAPE DRIVE IN THE BCS CABINET MUST BE REMOVED.

**MINI TAPE XPRT #1 OPTION INSTALLATION**  
 FOR MINI TAPE XPRT #2 OPTION INSTALLATION SEE SHT 2.

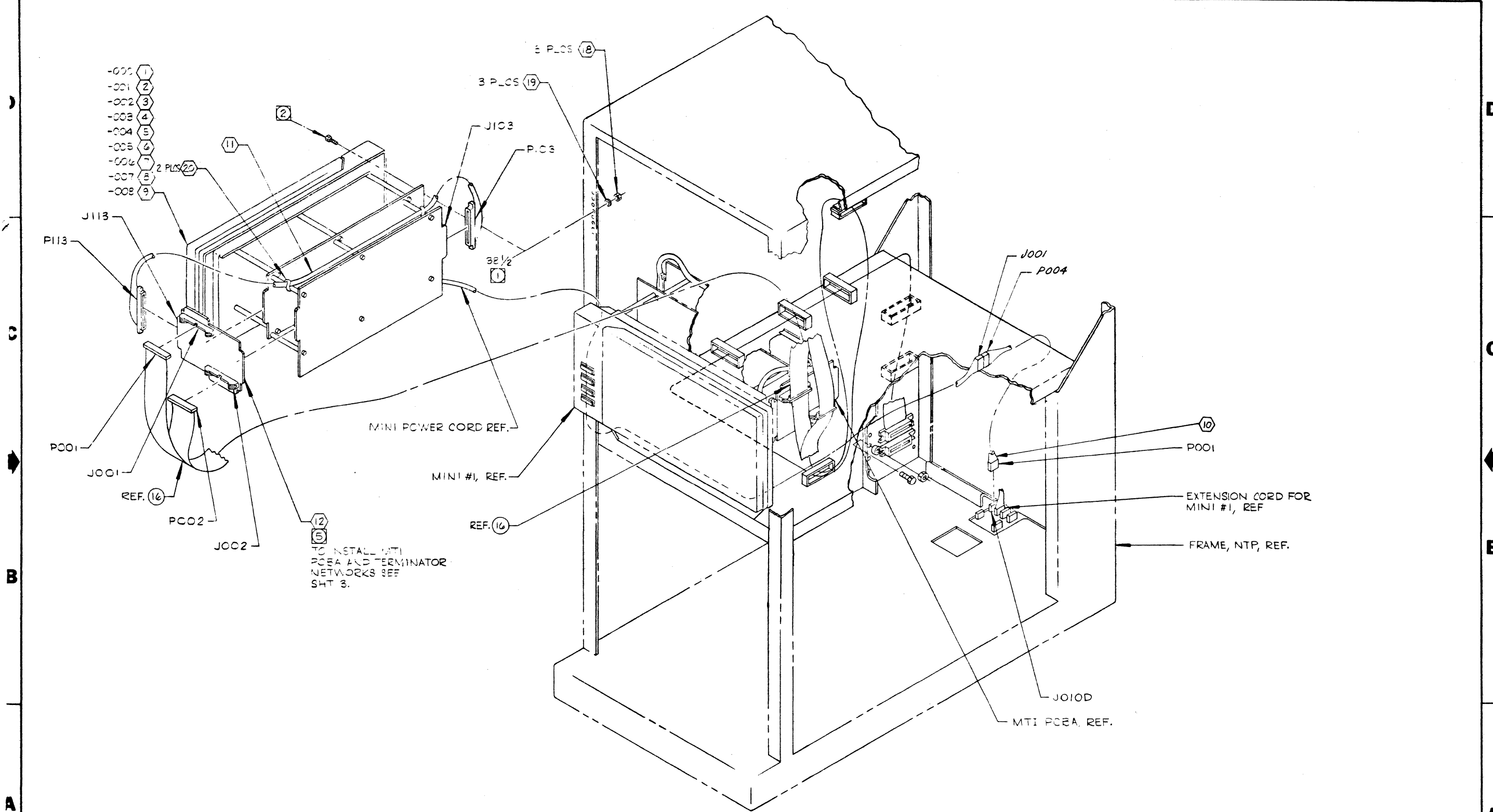
ITEM NO.	QTY	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION
MATERIAL LIST			
UNLESS OTHERWISE SPECIFIED		DRAWN	B. M... 8/6/79
1	TOLERANCES	CHECK	8-25-79
2	± .030 ANGULAR	APPR	
3	± .010	RELEASE	
4	REMOVE ALL BURRS		
5	BREAK ALL SHARP EDGES		
6	0.10 APPROX		
7	MACH SURFACES 125 / OR BETTER		
8	INTERPRET DWG PER MIL-D-1000		
9	DIM ARE IN INCHES		
THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHOULD NOT BE RELEASED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEMS WITHOUT PERMISSION OF PERTEC BUSINESS SYSTEMS			
MATERIAL		CODE IDENT NO	SIZE DWG NO
FINISH		DCO 10	D 190325
APPLICATION		REV	02
		SCALE 1/8" = 1"	DON'T SCALE DWG SHEET 1 OF 4

MULTI	---	NTP	---
NEXT ASSY	QTY	MODEL	QTY



8 7 6 5 4 3 2 1

- 001 1
- 002 2
- 003 3
- 004 4
- 005 5
- 006 6
- 007 7
- 008 8
- 009 9



MINI TAPE XPRT #2 OPTION  
INSTALLATION

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	D	190325	02
DO NOT SCALE DWG		SHEET	2

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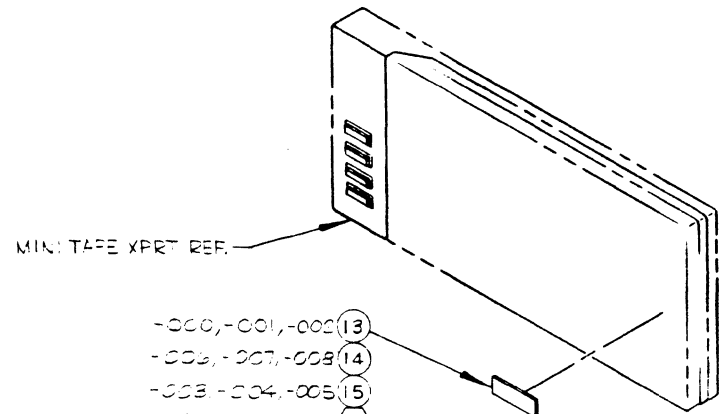
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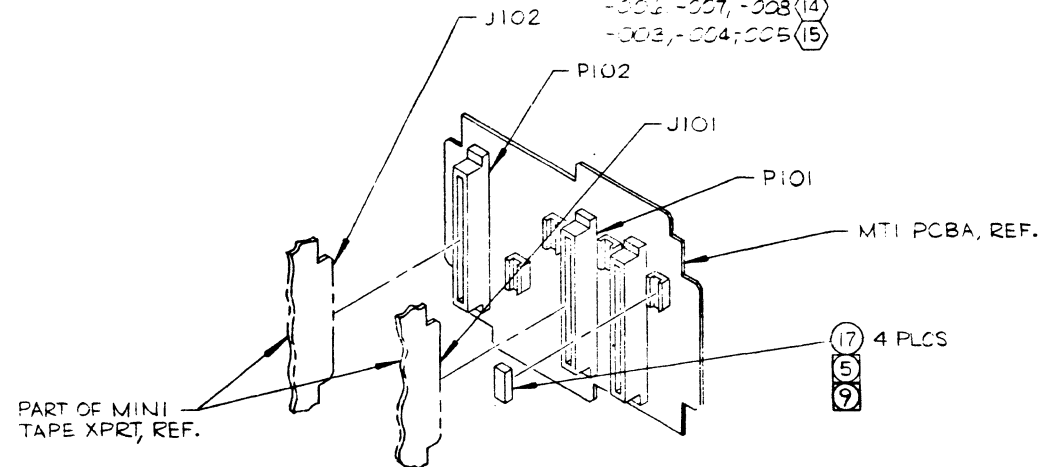
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### TRANSPORT LABEL INSTALLATION



- 000,-001,-002 (13)
- 003,-007,-008 (14)
- 003,-004,-005 (15)
- 003,-001,-002 (13)
- 003,-007,-008 (14)
- 003,-004,005 (15)

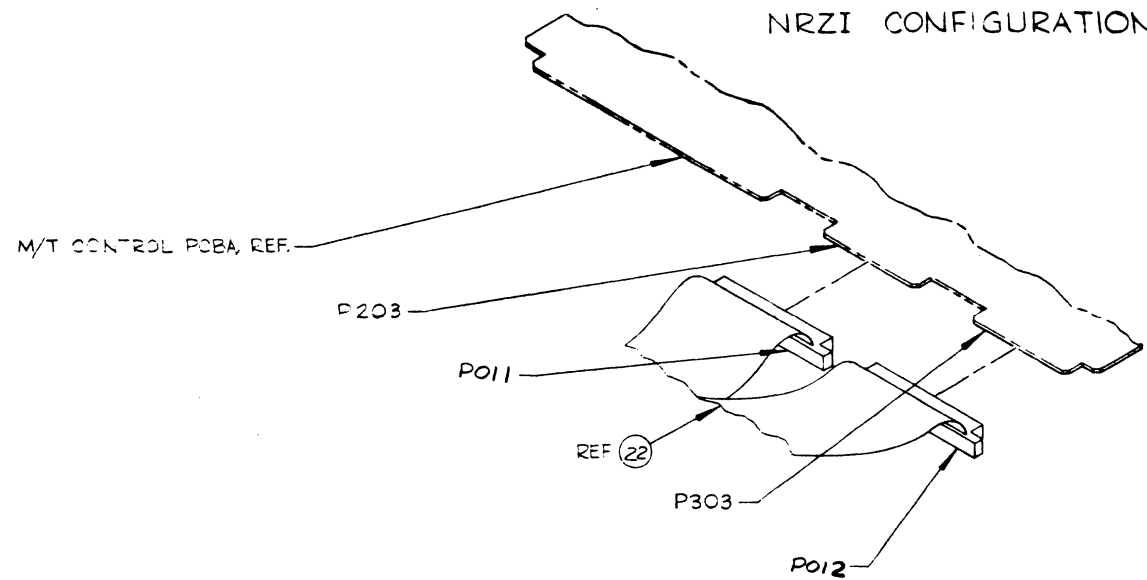


### MTI PCBA AND TERMINATOR NETWORK INSTALLATION

### M/T INTERFACE CABLE INSTALLATION (WITH NO RESIDENT) (MINI)

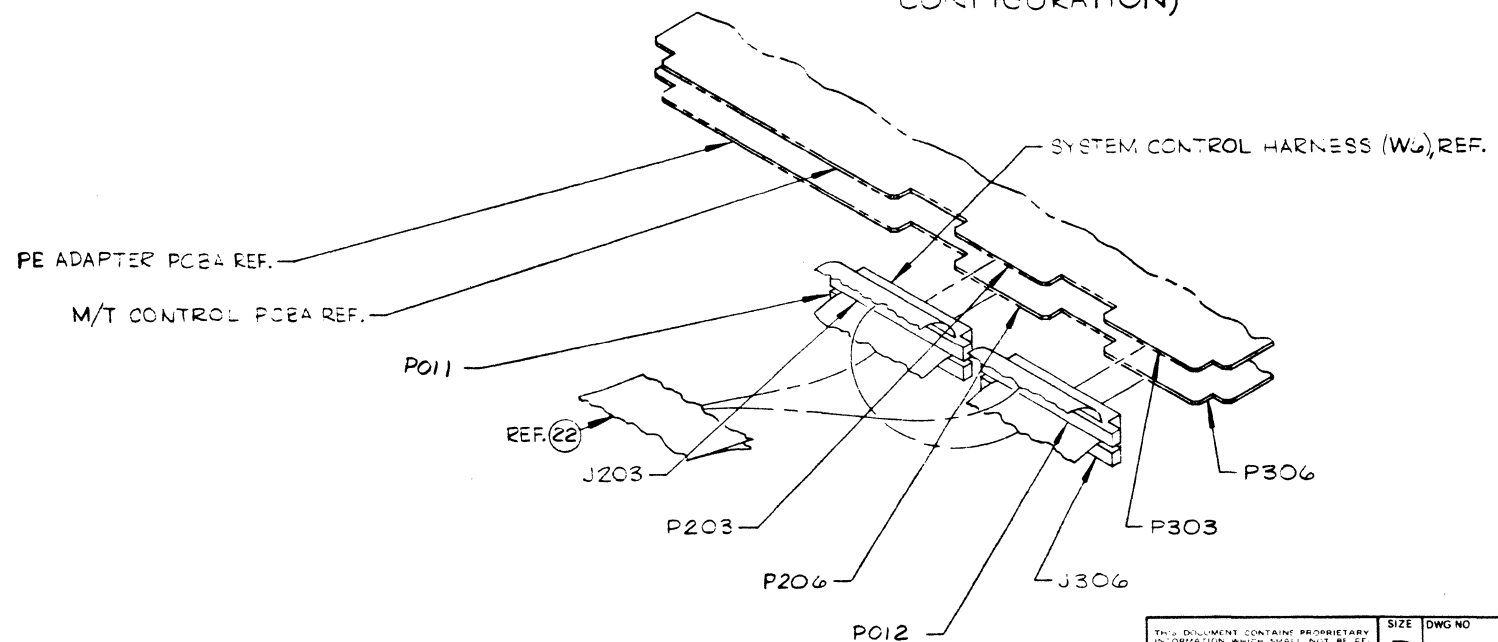
NOTE: CARD CAGE AND FRAME NOT SHOWN, DELETED FOR CLARITY.

(7)



### NRZI CONFIGURATION

### PE CONFIGURATION (OR PE AND NRZI CONFIGURATION)



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SIZE	DWG NO	REV
D	190325	02
DO NOT SCALE DWG		SHEET 3

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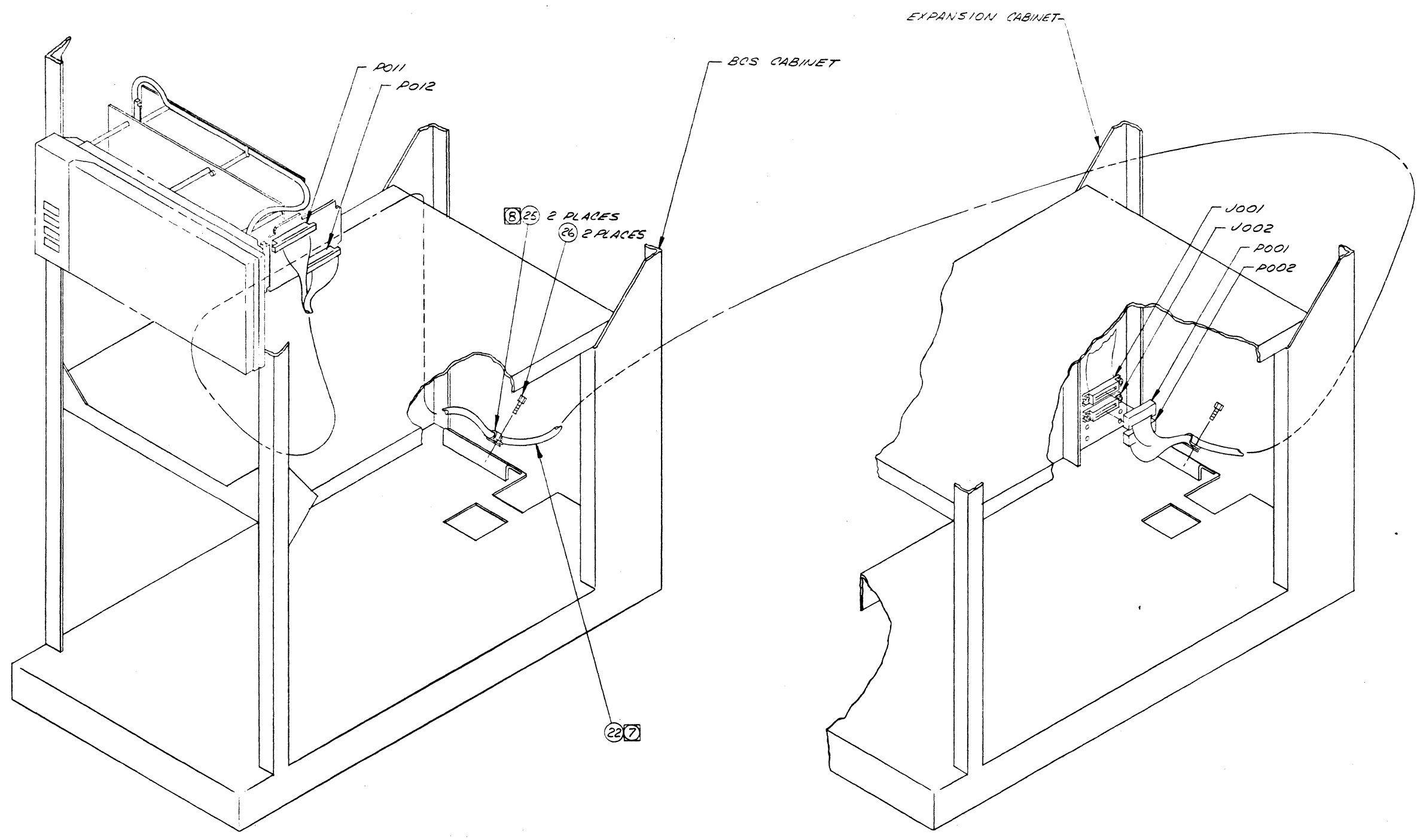
3

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D  
C  
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A

D  
C  
B  
A



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	D	190325	02
DO NOT SCALE DWG		SHEET 4	

8 7 6 5 4 3 2 1

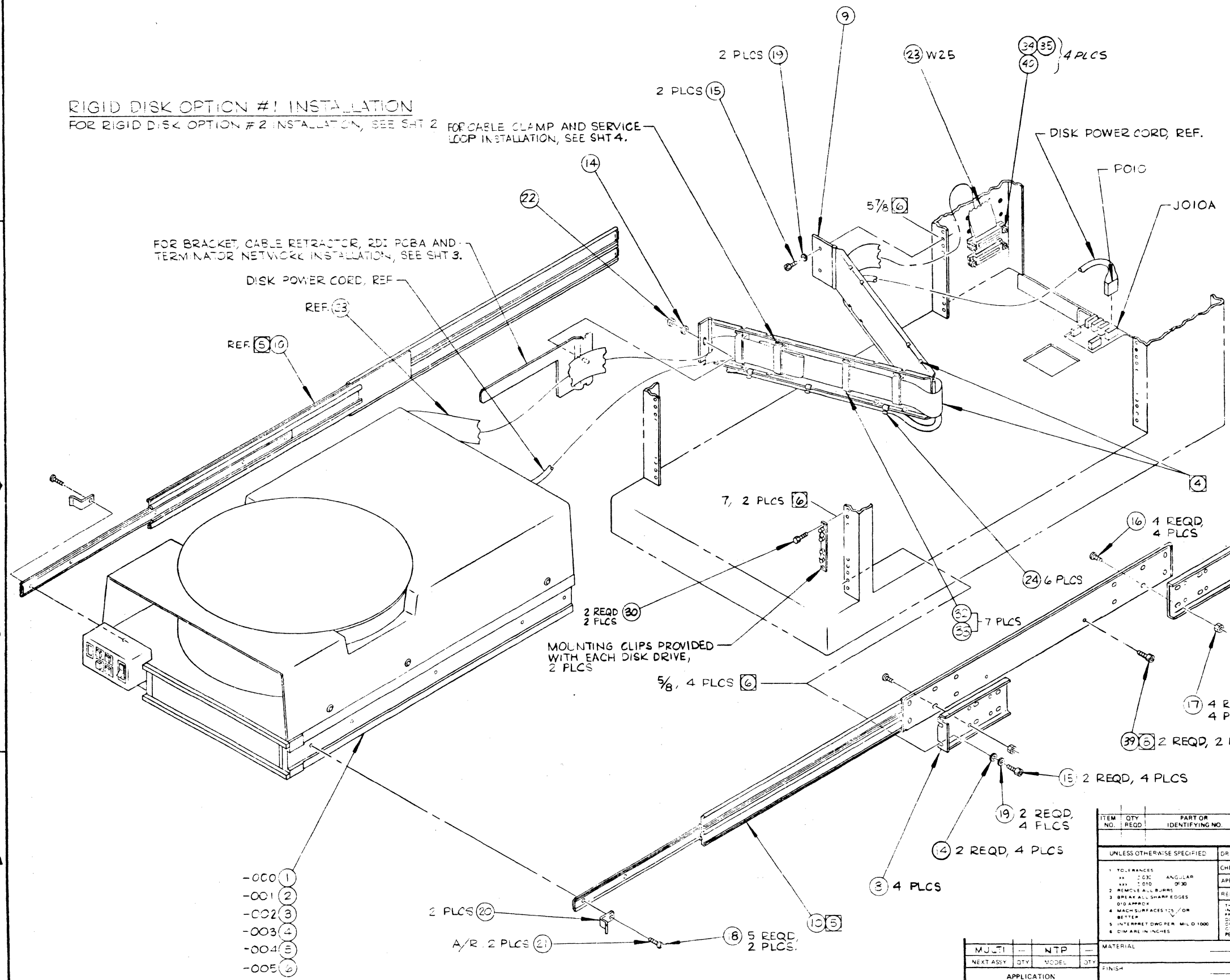
REVISIONS			
NO.	DESCRIPTION	DRFTR	APPROVED DATE
01	RELEASE PER DDC		
02	CODE 10 REL. N/O CHANGES PER D20 10478	AM	11/58

**RIGID DISK OPTION #1 INSTALLATION**

FOR RIGID DISK OPTION #2 INSTALLATION, SEE SHT 2

FOR CABLE CLAMP AND SERVICE LOOP INSTALLATION, SEE SHT 4.

FOR BRACKET, CABLE RETRACTOR, RDI PCBA AND TERMINATOR NETWORK INSTALLATION, SEE SHT 3.



- NOTE: UNLESS OTHERWISE SPECIFIED**
1. REFERENCE CABLE DIAGRAM, CCL, 121199.
  2. FOR ITEMS CODED (1), REFER TO RIGID DISK OPTION KIT #1 (D3422) OR RIGID DISK OPTION KIT #1 (D3462).
  3. FOR ITEMS CODED (2), REFER TO RIGID DISK OPTION KIT #2 (D3422) OR RIGID DISK OPTION KIT #2 (D3462).
  4. PROVIDE  $6.0 \pm .05$  SERVICE LOOP FOR HARNESS DISK INTFC, BETWEEN MOUNTING SLOTS ON EITHER SIDE OF HINGE.
  5. SLIDE SHOWN FULLY EXTENDED.
  6. MOUNTING HOLE LOCATIONS ARE MEASURED UPWARDS FROM THE BOTTOM HOLE TO THE NEAREST  $1/16$ ".
  7. DISK DRIVE TO ASSEMBLED PER ELECTROMECHANICAL WORKMANSHIP ASSY STANDARD 170475
  8. 22-26 INCH/LBS OF TORQUE MUST BE APPLIED TO INDICATED SCREWS.
  9. WHEN INSTALLING SECOND DISK, REMOVE TERMINATORS FROM FIRST RDI BOARD AND RE-INSTALL ON THE SECOND RDI BOARD.
  10. CLAMP MUST BE INSTALLED OVER EXPOSED BRAID PORTION OF CABLE.
  11. WHEN CONNECTING A TAPE DISK CABINET TO THE BCS CABINET, THE TERMINATORS ON ANY TAPE DRIVE IN THE BCS CABINET MUST BE REMOVED.

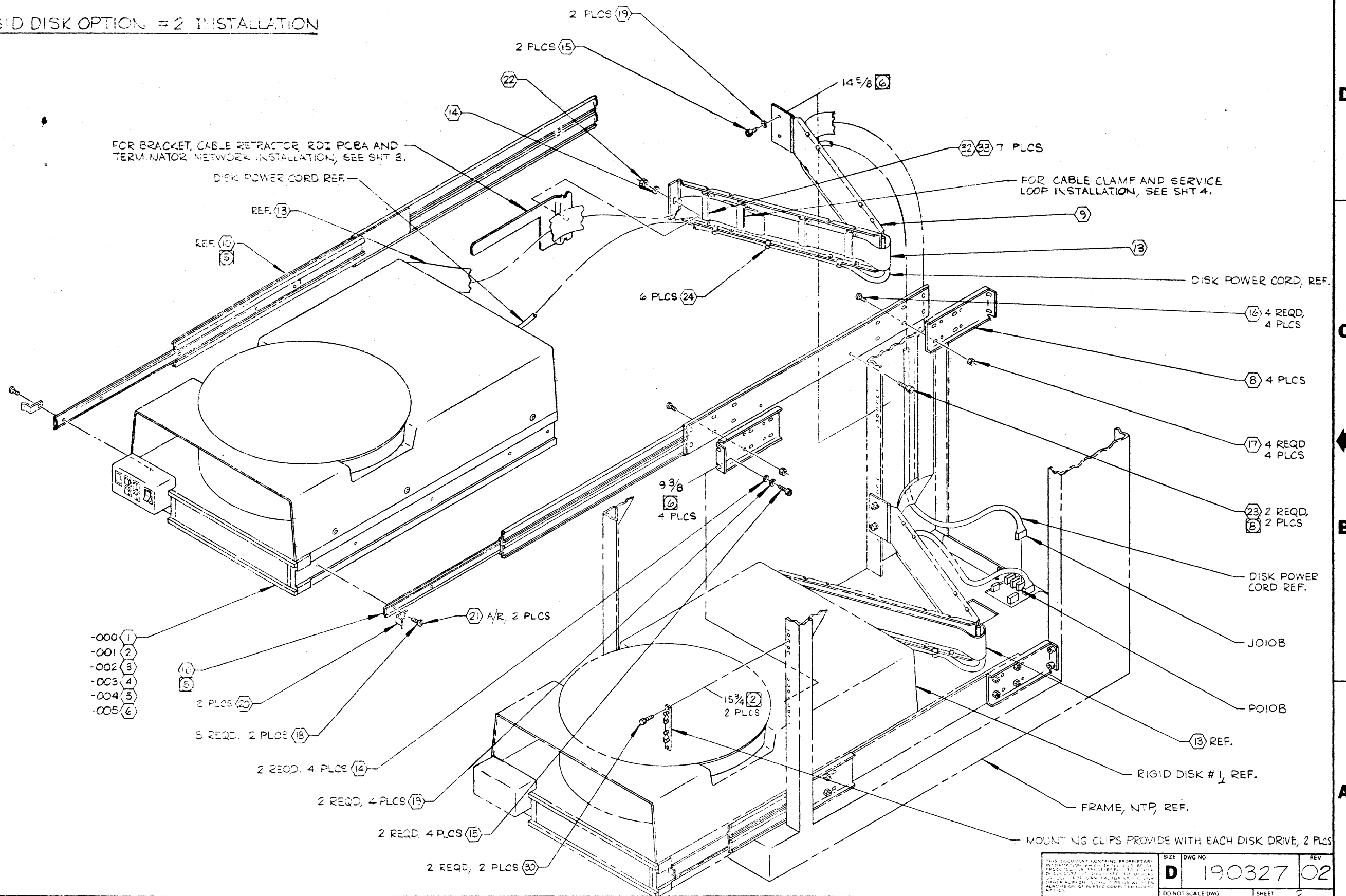
- 000 (1)
- 001 (2)
- 002 (3)
- 003 (4)
- 004 (5)
- 005 (6)

ITEM NO.	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION
MATERIAL LIST			
UNLESS OTHERWISE SPECIFIED:		DRAWN	302 SIMMONS 2/1/79
1. TOLERANCES		CHECK	2/1/79
XX .000 ANGULAR		APPR	2/1/79
XXX .010		RELEASE	2/1/79
2. REMOVE ALL BURRS		THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION AND IS UNCLASSIFIED BY OTHERS WITHOUT THE WRITTEN PERMISSION OF PERTEC BUSINESS SYSTEMS	
3. BREAK ALL SHARP EDGES		TITLE	
DIS APPROX		RIGID DISK OPTION	
4. MACH SURFACES 125 / OR BETTER		INSTALLATION DWG	
5. INTERPRET DWG PER MIL-D-1000		CODE IDENT NO	
6. DIM ARE IN INCHES		SIZE	
		D 190327	
		REV	
		02	
		SCALE 1/4" = 1" DO NOT SCALE DWG	
		SHEET 1 OF 5	

MULTI	NTP	MATERIAL
QTY	MODEL	FINISH
APPLICATION		

8 7 6 5 4 3 2 1

RIGID DISK OPTION #2 INSTALLATION



- 000 (1)
- 001 (2)
- 002 (3)
- 003 (4)
- 004 (5)
- 005 (6)

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	D	190327	02
DO NOT SCALE DWG		SHEET 2	

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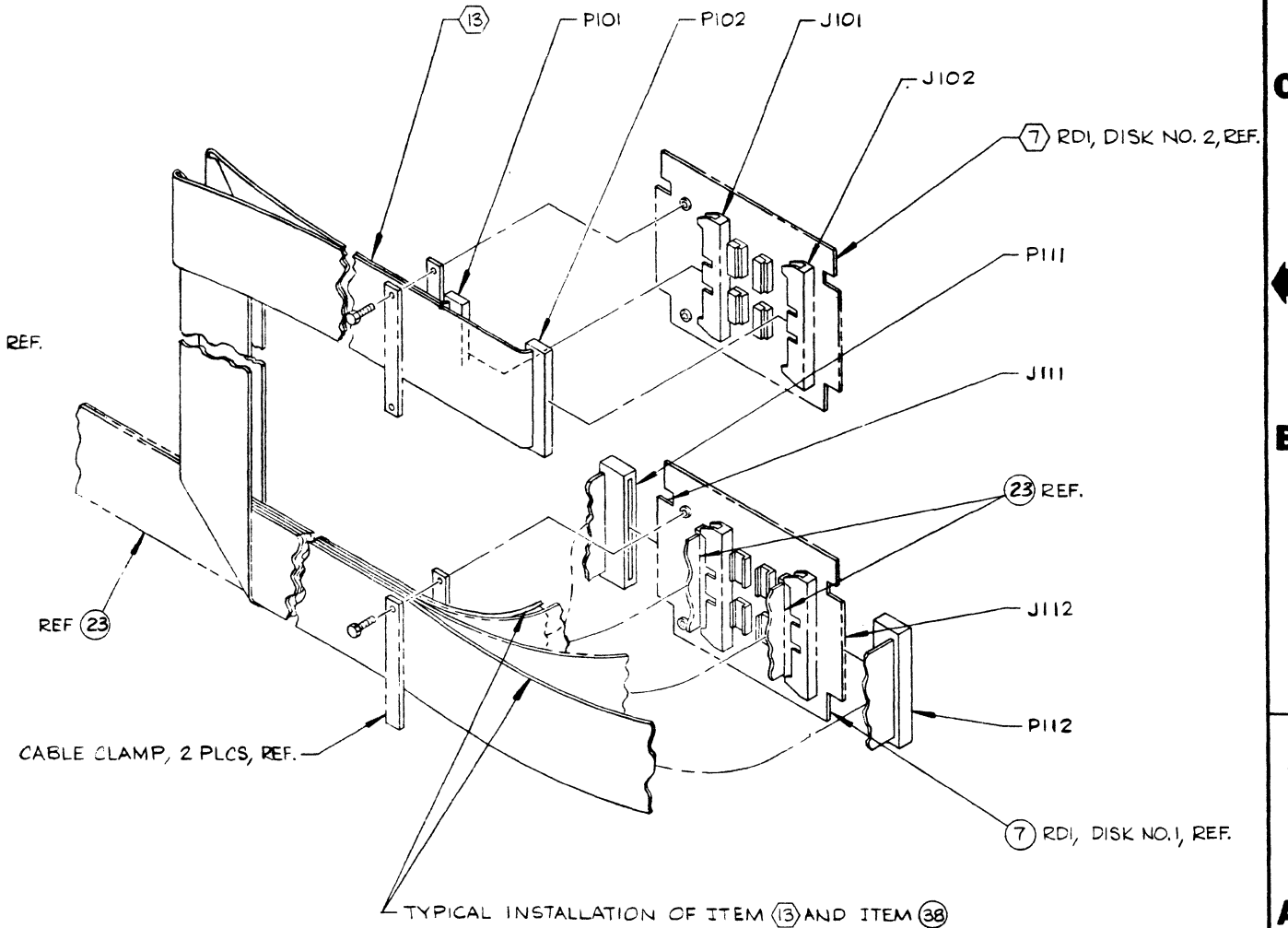
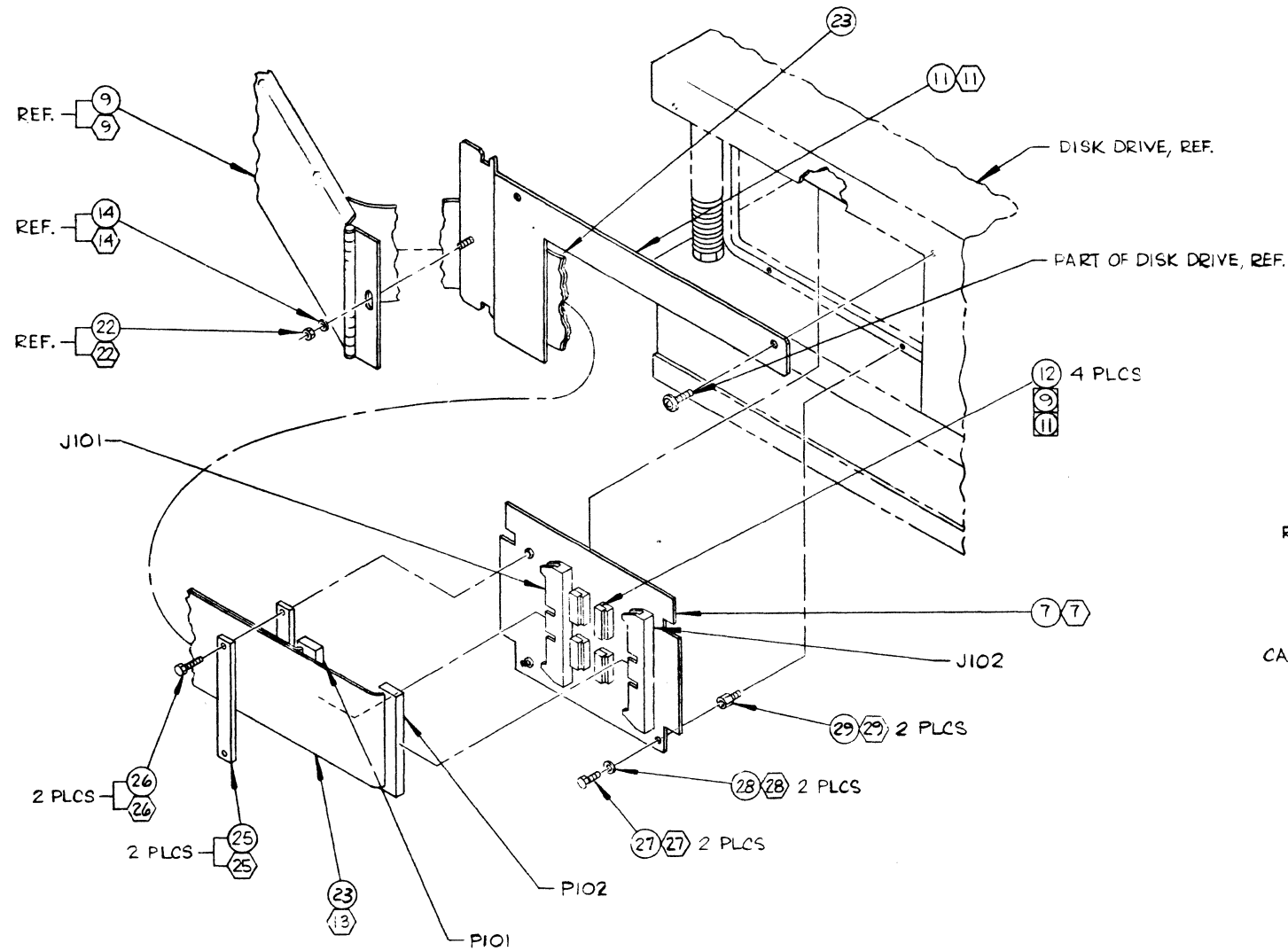
1

### BRACKET, CABLE RETRACTOR, RDI PCBA AND TERMINATOR NETWORK INSTALLATION

FOR CABLE R/D INTERCONNECT, SEE CABLE  
R/D INTERCONNECT INSTALLATION

### CABLE R/D INTERCONNECT INSTALLATION

NOTE: CABLE RETRACTORS AND RIGID  
DISKS NOT SHOWN FOR CLARITY.



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	D	190327	02
DO NOT SCALE DWG	SHEET	3	

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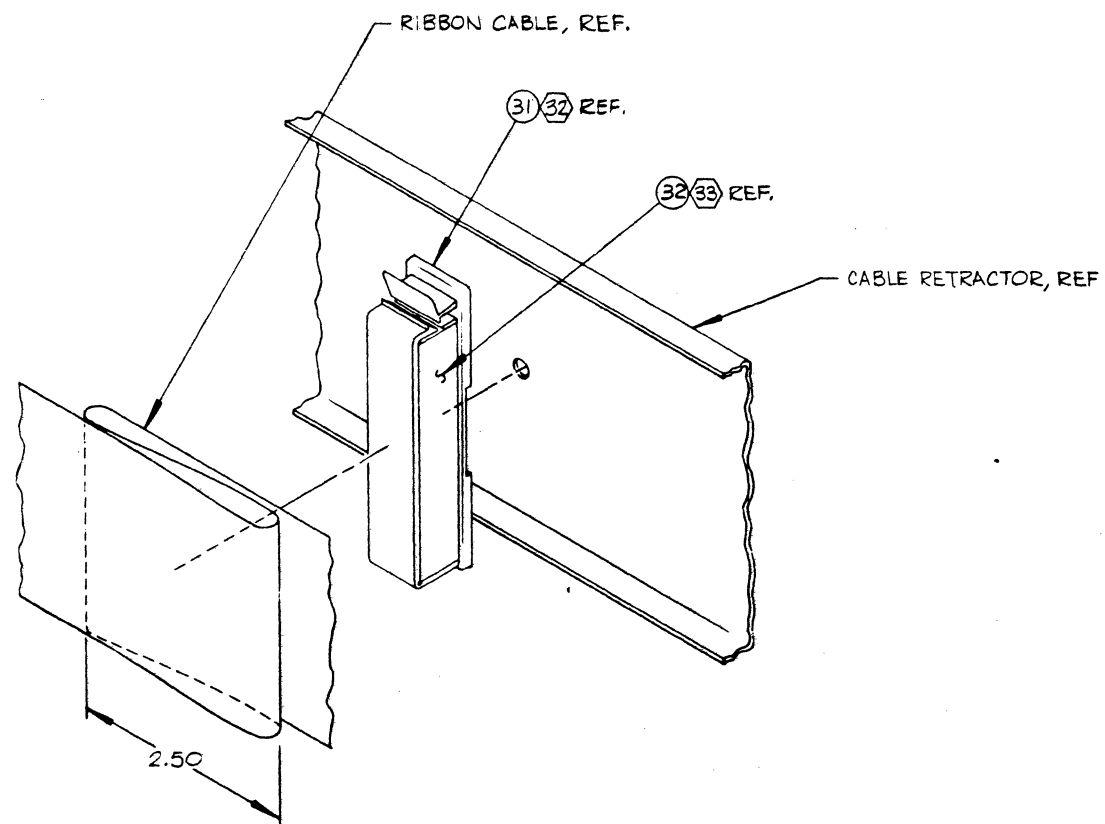
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CABLE CLAMP AND SERVICE LOOP  
INSTALLATION

<small>THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF PERTEC COMPUTER CORPORATION.</small>	SIZE	DWG NO	REV
	D	190327	02
DO NOT SCALE DWG		SHEET	4

TABULATION	
DASH NO.	DESCRIPTION
-000	9 TRACK, NRZI, 95V, NON-TERMINATED STA
-001	9 TRACK, NRZI, 115V, NON-TERMINATED STA
-002	9 TRACK, NRZI, 220V, NON-TERMINATED STA
-003	7 TRACK, NRZI, 95V, NON-TERMINATED STA
-004	7 TRACK, NRZI, 115V, NON-TERMINATED STA
-005	7 TRACK, NRZI, 220V, NON-TERMINATED STA
-006	9 TRACK, PE, 95V, NON-TERMINATED STA
-007	9 TRACK, PE, 115V, NON-TERMINATED STA
-008	9 TRACK, PE, 220V, NON-TERMINATED STA


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APPLICATION		REV	DESCRIPTION	DRFTG	APPVD	DATE
NEXT ASSY	MODEL	01	RELEASE PER DRO 151-79		EB	6/20/79 (R)
	NTP	02	CODE 06 REL W/O CHANGES PER DCO 09297	KW	EB	7/30/79 (R)
		03	INCORP DCO 09557	TA	EB	10/10/79 (R)
		04	INCORP DCO 09687	BM/KW	EB	11/26/79 (R)
		05	INCORP DCO 09985	FC/KW	EB	1/17/80 (R)
		06	INCORP DCO 10040	FC/KW	TLR EB	1/31/80 (R)
		07	INCORP DCO 10378	BM/lm	EB	3/20/80 (R)
		08	CODE 10 REL W/O CHANGES PER DCO 10496	LM	EB	4/8/80 (R)
		09	INCORP DCO 10744	FC/LM	EB	7/8/80 (R)
		10	INCORP DCO 11315	MV	EB	12/23/80 (R)

- 3 TYPE APPROPRIATE INFORMATION ON POWER REQUIREMENT LABEL PER 190123 POWER REQUIREMENTS.
2. FOR CABLE DIAGRAM SEE (121207) FOR SCHEMATIC SEE 121198.
1. FOR INSTALLATION OF PARTS SEE 190313.

NOTE: UNLESS OTHERWISE SPECIFIED.

DISTRIBUTION CLASS **B**

DRAWN	DEAN/kw	5-16-79	 <b>PERTEC COMPUTER CORPORATION</b> <small>DATA SYSTEMS OPERATIONS DIVISION</small>
CHECK	TL RODRIEVE	6-14-79	
APPR	R. GODFREY	6-18-79	
RELEASE	G. Brink	6/20/79	
UNLESS OTHERWISE SPECIFIED 1 TOLERANCES .xx   ±.03   ANGULAR .xxx   ±.010   ±0°30' 2 REMOVE ALL BURRS 3 BREAK ALL SHARP EDGES .010 APPROX 4 MACH SURFACES 125 ✓ OR BETTER 5 INTERPRET DWG PER ANS Y14 6 DIM ARE IN INCHES			TITLE  <b>MAXI TAPE TRANSPORT KIT (UNIVAC)</b>
CODE IDENT. NO.	SIZE	DWG NO.	REV.
D/C CODE	<b>A</b>	203696	10
SCALE	DO NOT SCALE DWG		SHEET 1 OF 8



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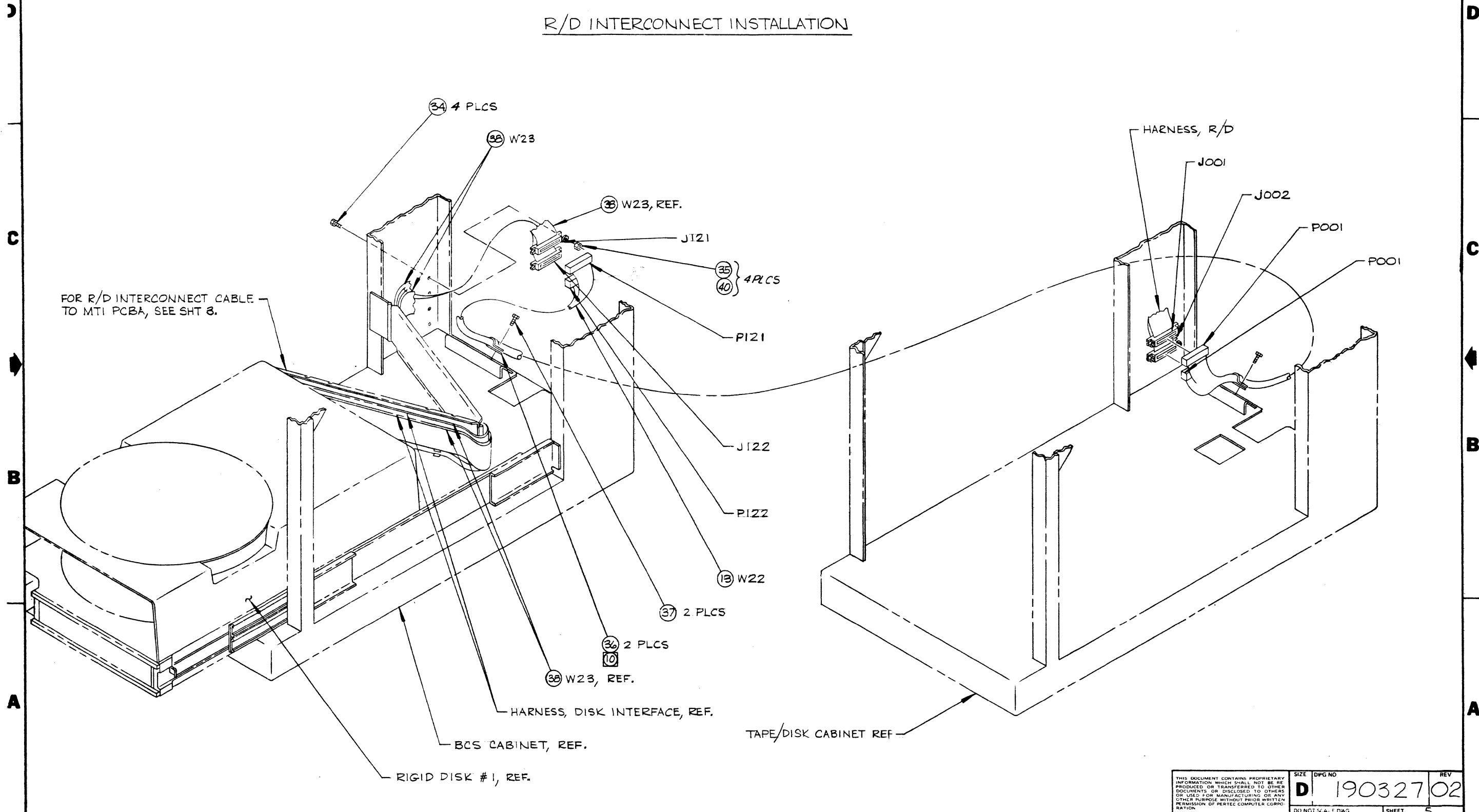
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### R/D INTERCONNECT INSTALLATION



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	D	190327	02
DO NOT SCALE DWG	SHEET	5	

PCC PERTEC COMPUTER CORPORATION		MATERIAL LIST		Sheet 3 of	Ill. Desig. No.	203696	Rev.	10	
Item No.	Quantity Required						Part No.	Manufacturer or Description	Reference Designation
	-005	-004	-003	-002	-001	-000			
1	1	1	1	1	1	1	220383-001	TABLE ASSY	
2	0	0	0	0	0	1	250114-000	TAPE TRANSPORT (NRZI, 9 TRACK 95V)	
3	0	0	0	0	1	0	250114-001	TAPE TRANSPORT (NRZI, 9 TRACK 115V)	
4	0	0	0	1	0	0	250114-002	TAPE TRANSPORT (NRZI, 9 TRACK 220V)	
5	0	0	1	0	0	0	250114-003	TAPE TRANSPORT (NRZI, 7 TRACK 95V)	
6	0	1	0	0	0	0	250114-004	TAPE TRANSPORT (NRZI, 7 TRACK 115V)	
7	1	0	0	0	0	0	250114-005	TAPE TRANSPORT (NRZI, 7 TRACK 220V)	
8	0	0	0	0	0	0	250114-006	TAPE TRANSPORT (PE, 9 TRACK 95V)	
9	0	0	0	0	0	0	250114-007	TAPE TRANSPORT (PE, 9 TRACK 115V)	
10	0	0	0	0	0	0	250114-008	TAPE TRANSPORT (PE, 9 TRACK 220V)	
11	1	1	1	1	1	1	261070	PCBA, MAG TAPE INTERFACE	
12	1	1	1	1	1	1	290359-001	LABEL, FCC COMPLIANCE	
13									
14	1	1	1	1	1	1	211352	CABLE, TAPE NO. 4	W17
15	0	1	1	0	1	1	211768-000	PANEL ASSY, MAXI INTERFACE	
16	1	0	0	1	0	0	211768-001	PANEL ASSY, MAXI INTERFACE	
17	1	1	1	1	1	1	290329	OVERLAY, ACCENT PANEL	
18	1	1	1	1	1	1	290331	OVERLAY, CONTROL PANEL	
19	1	1	1	0	0	0	290173-006	LABEL, TRANSPORT	

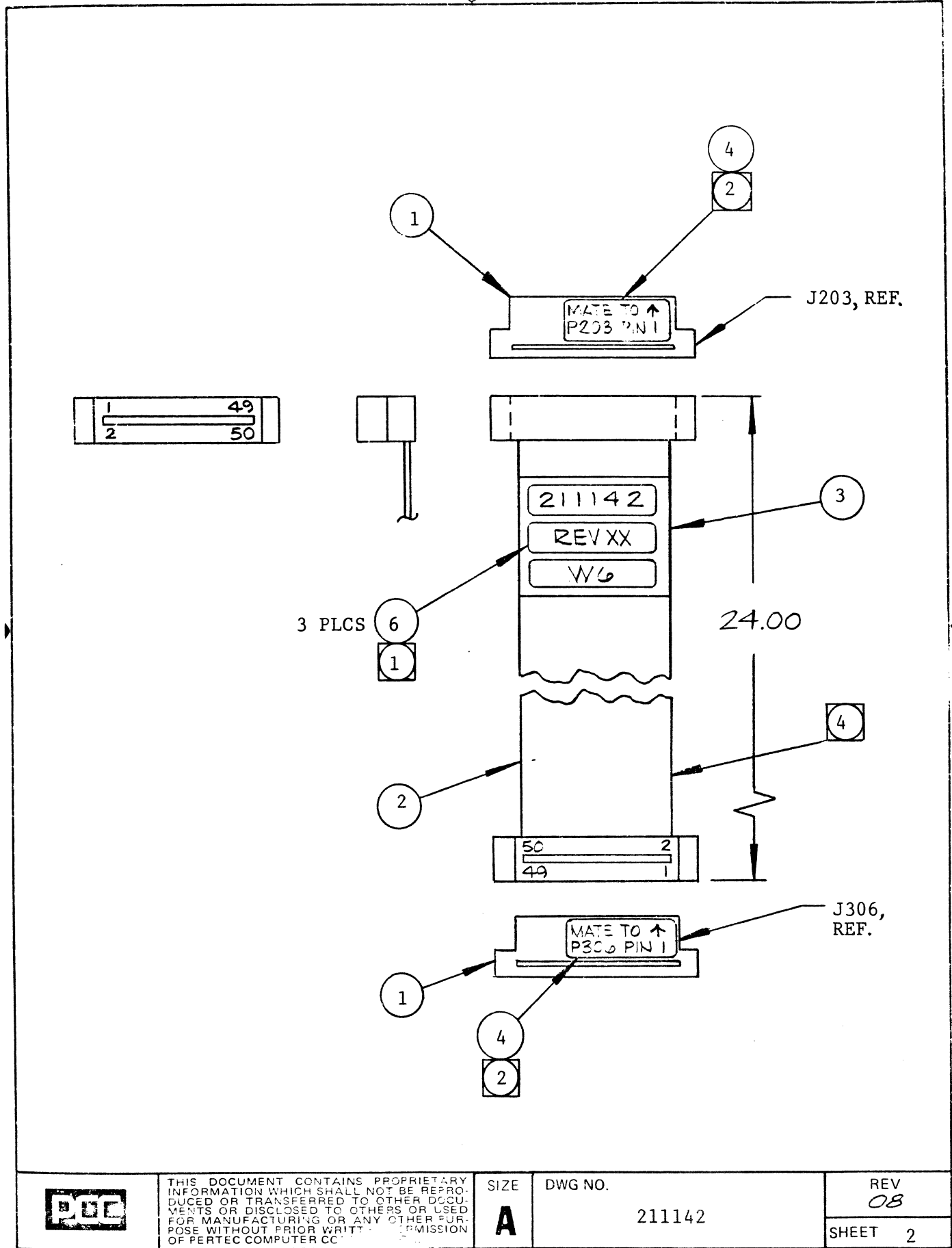
PCC PERTEC COMPUTER CORPORATION		MATERIAL LIST		Sheet 4 of	Ill. Desig. No.	203696	Rev.	10	
Item No.	Quantity Required						Part No.	Manufacturer or Description	Reference Designation
	-005	-004	-003	-002	-001	-000			
20	0	0	0	1	1	1	290173-001	LABEL, TRANSPORT	
21	0	0	0	0	0	0	290173-002	LABEL, TRANSPORT	
22	1	1	1	1	1	1	230718-000	COVER, CABLE ENTRY	
23	1	1	1	1	1	1	211757-000	CABLE, TAPE #1	W13
24									
25	1	1	1	1	1	1	220298	SHIPPING KIT, MAXI	
26	1	1	1	1	1	1	290342-000	LABEL, POWER REQUIREMENTS	3
27	1	1	1	1	1	1	290069	LABEL, ASSEMBLY NUMBER	
28	1	1	1	1	1	1	240206	ROD, SUPPORT	
29	1	1	1	1	1	1	370040	CLIP, RETAINER	
30	1	1	1	1	1	1	370029-703	SCREW, SHOULDER	
31	2	2	2	2	2	2	370012-253	WASHER, FLAT NYLON	
32	1	1	1	1	1	1	370001-106	SCREW, PAN HEAD, RECESSED PHILLIPS	
33	AR	AR	AR	AR	AR	AR	700015	LOCTITE, 242	
34	10	10	10	10	10	10	370651-000	SCREW, HEX HEAD, LOCKING, 6-32X3/8	
35	2	2	2	2	2	2	240045	PLATE, NUT (HINGE BLOCK MTD)	
36	1	1	1	1	1	1	370004-409	SCREW FLAT HEAD, 100° (PHILLIPS)	
37	AR	AR	AR	AR	AR	AR	370030-056	GROMMET	
38	1	1	1	1	1	1	290326	LABEL, CAUTION	
39									

PCC PERTEC COMPUTER CORPORATION		MATERIAL LIST		Sheet 5 of	Ill. Desig. No.	203696	Rev.	10	
Item No.	Quantity Required						Part No.	Manufacturer or Description	Reference Designation
	-005	-004	-003	-002	-001	-000			
40									
41	2	2	2	2	2	2	370574-001	CLAMP, CABLE	
42	1	1	1	1	1	1	370027-700	NUT, HEX LOCKING	
43	1	1	1	1	1	1	370651-003	SCREW, HEX HD, LOCKING	

PCC PERTEC COMPUTER CORPORATION		MATERIAL LIST		Sheet 6 of	Ill. Desig. No.	203696	Rev.	10	
Item No.	Quantity Required						Part No.	Manufacturer or Description	Reference Designation
	-008	-007	-006						
1				1	1	1	220383-001	TABLE ASSY	
2				0	0	0	250114-000	TAPE TRANSPORT (NRZI, 9 TRACK 95V)	
3				0	0	0	250114-001	TAPE TRANSPORT (NRZI, 9 TRACK 115V)	
4				0	0	0	250114-002	TAPE TRANSPORT (NRZI, 9 TRACK 220V)	
5				0	0	0	250114-003	TAPE TRANSPORT (NRZI, 7 TRACK 95V)	
6				0	0	0	250114-004	TAPE TRANSPORT (NRZI, 7 TRACK 115V)	
7				0	0	0	250114-005	TAPE TRANSPORT (NRZI, 7 TRACK 220V)	
8				0	0	1	250114-006	TAPE TRANSPORT (PE, 9 TRACK 95V)	
9				0	1	0	250114-007	TAPE TRANSPORT (PE, 9 TRACK 115V)	
10				1	0	0	250114-008	TAPE TRANSPORT (PE, 9 TRACK 220V)	
11				1	1	1	261070	PCBA, MAG TAPE INTERFACE	
12				1	1	1	290359-001	LABEL, FCC COMPLIANCE	
13									
14				1	1	1	211352	CABLE, TAPE NO. 4	W17
15				0	1	1	211768-000	PANEL ASSY, MAXI INTERFACE	
16				1	0	0	211768-001	PANEL ASSY, MAXI INTERFACE	
17				1	1	1	290329	OVERLAY, ACCENT PANEL	
18				1	1	1	290331	OVERLAY, CONTROL PANEL	
19				0	0	0	290173-006	LABEL, TRANSPORT	

PCC PERTEC COMPUTER CORPORATION		MATERIAL LIST		Sheet 7 of	Ill. Desig. No.	203696	Rev.	10	
Item No.	Quantity Required						Part No.	Manufacturer or Description	Reference Designation
	-008	-007	-006						
20				0	0	0	290173-001	LABEL, TRANSPORT	
21				1	1	1	290173-002	LABEL, TRANSPORT	
22				1	1	1	230718-000	COVER, CABLE ENTRY	
23				1	1	1	211757	CABLE, TAPE #1	W13
24									
25				1	1	1	220298	SHIPPING KIT, MAXI	
26				1	1	1	290342-000	LABEL, POWER REQUIREMENTS	3
27				1	1	1	290069	LABEL, ASSEMBLY NUMBER	
28				1	1	1	240206	ROD, SUPPORT	
29				1	1	1	370040	CLIP, RETAINER	
30				1	1	1	370029-703	SCREW, SHOULDER	
31				2	2	2	370012-253	WASHER, FLAT NYLON	
32				1	1	1	370001-106	SCREW, PAN HEAD, RECESSED PHILLIPS	
33				AR	AR	AR	700015	LOCTITE, 242	
34				10	10	10	370651-000	SCREW, HEX HD, LOCKING, 6-32 X 3/8	
35				2	2	2	240045	PLATE, NUT (HINGE BLOCK MTD)	
36				1	1	1	370004-409	SCREW, FLAT HEAD, 100° (PHILLIPS)	
37				AR	AR	AR	370030-056	GROMMET	
38				1	1	1	290326	LABEL, CAUTION	
39									

PCC PERTEC COMPUTER CORPORATION		MATERIAL LIST		Sheet 8 of	Ill. Desig. No.	203696	Rev.	10	
Item No.	Quantity Required						Part No.	Manufacturer or Description	Reference Designation
	-008	-007	-006						
40									
41				2	2	2	370574-001	CLAMP, CABLE	
42				1	1	1	370027-700	NUT, HEX LOCKING	
43				1	1	1	370651-003	SCREW, HEX HD, LOCKING	



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APPLICATION	
NEXT ASSY	MODEL
211518	XL40
	NTP

REVISIONS				
REV	DESCRIPTION	DRFTG	APPVD	DATE
08	INCRP DCO 10180	BOB S.	TR	5/19/80

- 4 RED STRIPE INDICATES PIN 1 OF CONNECTOR.
- 3 PERMANENTLY MARK CONNECTOR DESIGNATION SHOWN USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPEC 100034.
- 2 LOCATE CONNECTOR IDENT LABEL WHERE SHOWN WITH ARROW POINTING TO DESIGNATED PIN.
- 1 PERMANENTLY MARK ASSEMBLY NUMBER, "REV" AND APPROPRIATE REVISION LEVEL, AND CABLE REF. DESIGNATION USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPECIFICATION 100034.

NOTE: UNLESS OTHERWISE SPECIFIED.

DRAWN	PERKINS/mv	11/29/76
CHECK	GRAFA	1/24/77
APPR	RSCHUMAKER	1/27/77
RELEASE	G. BRINK	2/1/77

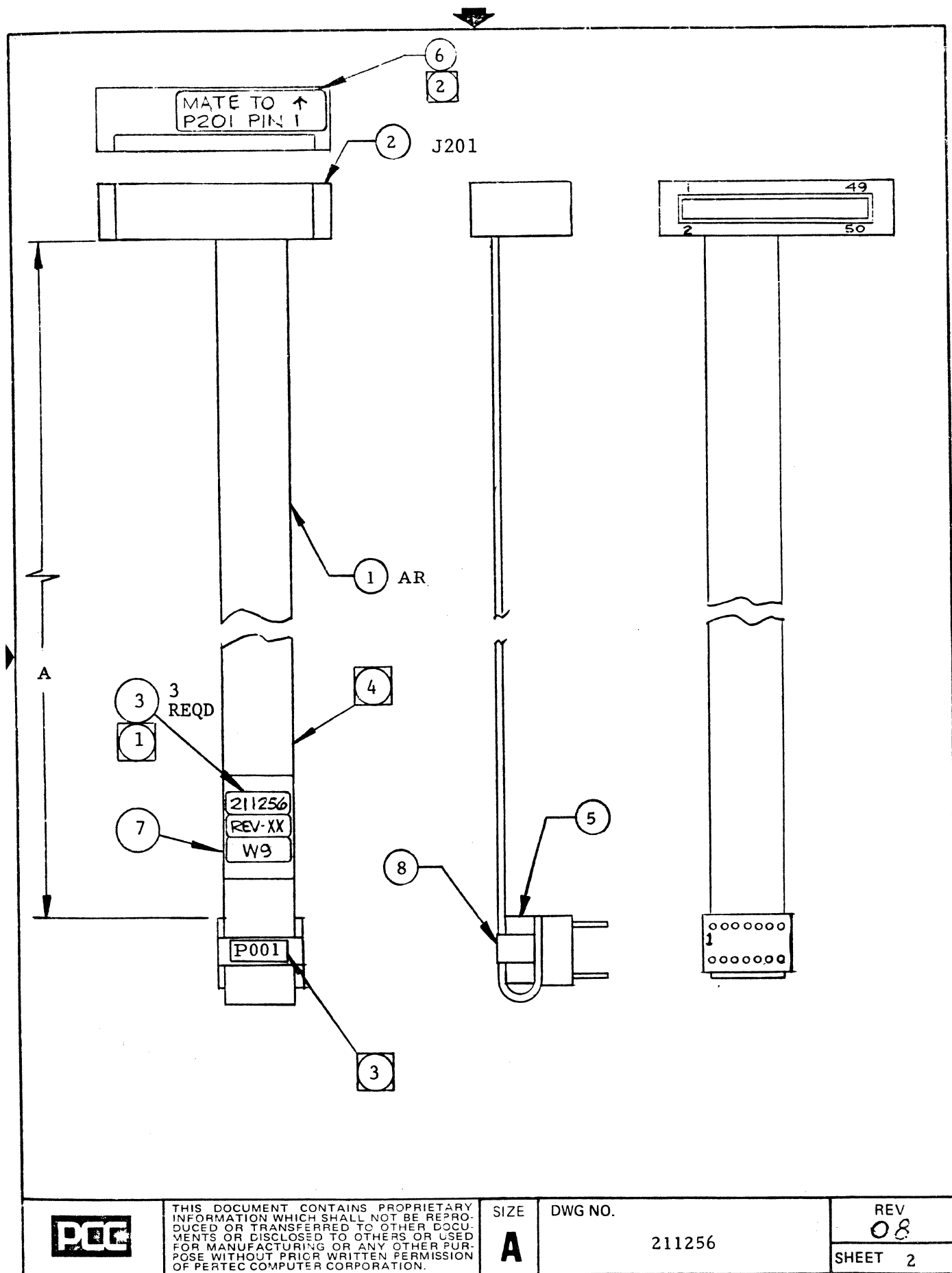
**PERTEC COMPUTER CORPORATION**  
DATA SYSTEMS OPERATIONS DIVISION

TITLE  
**CABLE, PE INTERCONNECT (W6)**

- UNLESS OTHERWISE SPECIFIED
- 1 TOLERANCES
    - .xx ±.03 ANGULAR
    - .xxx ±.010 ±0°30'
  - 2 REMOVE ALL BURRS
  - 3 BREAK ALL SHARP EDGES .010 APPROX
  - 4 MACH SURFACES 125 ✓ OR BETTER
  - 5 INTERPRET DWG PER ANS Y14
  - 6 DIM ARE IN INCHES

CODE IDENT. NO.	SIZE	DWG NO.	REV.
D/C CODE	<b>A</b>	211142	08
SCALE	DO NOT SCALE DWG	SHEET 1	OF 3

Item No.	Quantity Required						Part No.	Nomenclature or Description	Reference Designation
						-000			
1						2	320279-000	CONNECTOR, RIBBON CABLE	J203, J306
2						AR	510122-000	CABLE, FLAT	
3						AR	420223-001	TAPE, PLASTIC FILM	
4						2	410210-001	LABEL, SELF ADHESIVE	
5									
6						3	740005	LABEL, SELF ADHESIVE	



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REVISIONS				
REV	DESCRIPTION	DRFTG	APPVD	DATE
08	INCRP DCO 10180	BOB S.	TLR EB	11/180

APPLICATION	
NEXT ASSY	MODEL
211217	XL40
211505	XL20
211631	NTP

DASH NUMBER	"A" DIMENSION
-000	50 ± 1.0 INCHES
-001	39 ± 1.0 INCHES
-002	105 ± 1.50 INCHES

- 4 RED STRIPE INDICATES PIN 1 OF CONNECTOR.
- 3 PERMANENTLY MARK CONNECTOR DESIGNATION SHOWN USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPEC 100034.
- 2 LOCATE CONNECTOR IDENT LABEL WHERE SHOWN WITH ARROW POINTING TO DESIGNATED PIN.
- 1 PERMANENTLY MARK ASSEMBLY NUMBER, "REV" AND APPROPRIATE REVISION LEVEL, AND CABLE REF. DESIGNATION USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPECIFICATION 100034.

NOTE: UNLESS OTHERWISE SPECIFIED.

DRAWN	DEED/mv	10/27/76
CHECK	IS.	10/28/76
APPR	K. K.	11/1/76
RELEASE	G. BRINK	11/5/76

**PERTEC COMPUTER CORPORATION**  
DATA SYSTEMS OPERATIONS DIVISION

TITLE  
**CABLE, DIAGNOSTIC DISPLAY**  
 (W9)

UNLESS OTHERWISE SPECIFIED

1 TOLERANCES  
 .xx ±.03 ANGULAR  
 .xxx ±.010 ±0°30'

2 REMOVE ALL BURRS  
 3 BREAK ALL SHARP EDGES .010 APPROX  
 4 MACH SURFACES 125 ✓ OR BETTER  
 5 INTERPRET DWG PER ANS Y14  
 6 DIM ARE IN INCHES

CODE IDENT. NO.	SIZE	DWG NO.	REV.
DC CODE 10	<b>A</b>	211256	08
SCALE	DO NOT SCALE DWG	SHEET 1 OF 4	

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SIZE **A** DWG NO. 211256 REV **08** SHEET 2

Item No.	Quantity Required			Part No.	Nomenclature or Description	Reference Designation
	-002	-001	-000			
1	AR	AR	AR	510122-004	CABLE, FLAT RIBBON	
2	1	1	1	320279-000	CONNECTOR, CARD EDGE	W9-J201
3	3	3	3	740005-000	LABEL, SELF ADHESIVE	
4						
5	1	1	1	320313-000	HEADER, IDC	W9-P001
6	1	1	1	410210-001	LABEL, SELF ADHESIVE	
7	AR	AR	AR	420223-001	TAPE, PLASTIC FILM	
8	1	1	1	320313-001	CLIP, STRAIN RELIEF	
9	1	1	1	320279-001	KEY	
10						

790406-02

WIRE/COMP NO.	FROM		TO		WIRE ITEM NO.	SIGNAL	COLOR	REMARKS
	REF. DES.	TERM ITEM/TYPE	REF. DES.	TERM ITEM/TYPE				
1	P001-1	5	J201-B01	2	1	0DIA5		
2	P001-2	5	J201-B02	2	1	0DIA6		
3	P001-3	5	J201-B03	2	1	0DIA3		
4	P001-4	5	J201-B04	2	1	0DIA0		
5	P001-5	5	J201-B05	2	1	0M5R		
6	P001-6	5	J201-B06	2	1	LGND		
7	P001-7	5	J201-B07	2	1	LGND		
8	P001-8	5	J201-A07	2	1	LGND		
9	P001-9	5	J201-A06	2	1	LGND		
10	P001-10	5	J201-A05	2	1	(SPARE)		
11	P001-11	5	J201-A04	2	1	0DIA1		
12	P001-12	5	J201-A03	2	1	0DIA4		
13	P001-13	5	J201-A02	2	1	0DIA7		
14	P001-14	5	J201-A01	2	1	0DIA2		
15								
T=TIN WIRE S6=STRIP WIRE .375							DWG NO 211256	REV 08
							SHEET 4	

790242-02

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REVISIONS

SYM	DESCRIPTION	DRFTG	APPVD	DATE
01	RELEASE PER DRO <i>077-77</i>		<i>ES</i>	<i>2/4/77</i> (R)
02	INCORP DCO 05248	MV	<i>EB</i>	<i>5/5/77</i> (R)
03	INCORP DCO 09208	KW	<i>EB</i>	<i>8/2/79</i> (R)
04	INCORP DCO 10181	Bbs S	<i>EB</i>	<i>3/19/80</i> (R)
05	CODE 10 REL W/O CHANGES PER DCO 10499	LM	<i>EB</i>	<i>4/9/80</i> (R)

APPLICATION

QTY	NEXT ASSY	QTY	MODEL
-	202597	-	XL40
-	211645	-	NTP

- ③ RED STRIPE INDICATES PIN 1 OF CONNECTOR.
- ② LOCATE CONNECTOR IDENT LABEL WHERE SHOWN WITH ARROW POINTING TO DESIGNATED PIN.
- ① PERMANENTLY MARK ASSEMBLY NUMBER, "REV" AND APPROPRIATE REVISION LEVEL AND CABLE REF. DESIGNATION USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPECIFICATION 100034.

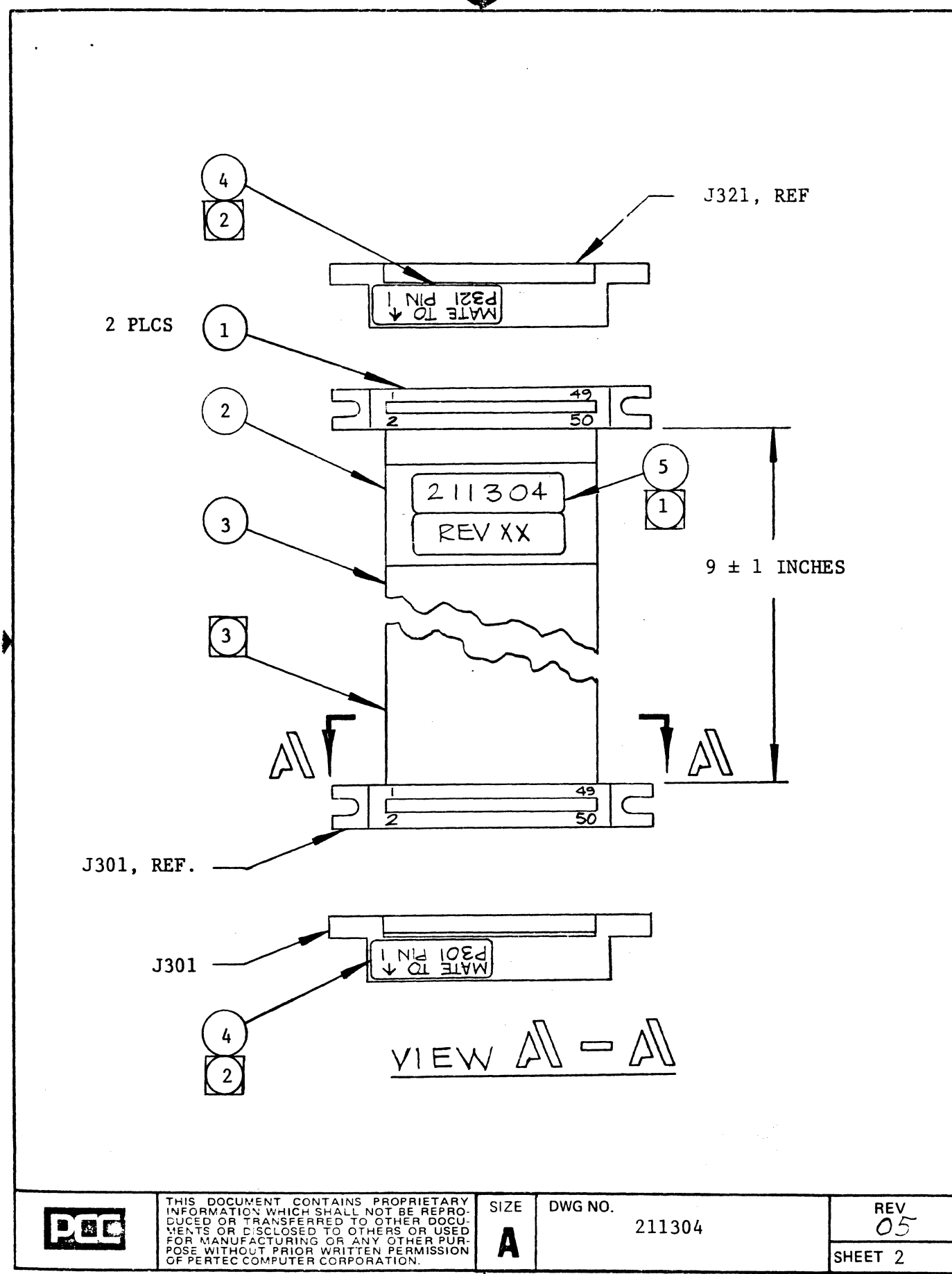
NOTES: UNLESS OTHERWISE SPECIFIED.

DRAWN	<i>my</i> MINTZER	12/8/76
CHECK	<i>R. B...</i>	1-25-77
APPR	<i>W. J...</i>	1-31-77
RELEASE	<i>G. B...</i>	2/4/77

**PERTEC** BUSINESS SYSTEMS DIVISION

TITLE			
CABLE, TEST SET #2			
CODE IDENT. NO.	SIZE	DWG NO.	REV.
D C CODE	<b>A</b>	211304	05
SCALE	DO NOT SCALE DWG	SHEET 1	OF 6

- 1 TOLERANCES  
.xx ±.03 ANGULAR  
.xxx ±.010 ±0°30'
- 2 REMOVE ALL BURRS
- 3 BREAK ALL SHARP EDGES .010 APPROX
- 4 MACH SURFACES 125 ✓ OR BETTER
- 5 INTERPRET DWG PER MIL-D-1000
- 6 DIM ARE IN INCHES



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SIZE	DWG NO.	REV
<b>A</b>	211304	05
		SHEET 2

Title		Advance Approval		Sheet	ML Dwg. No.	Rev.
CABLE, TEST SET #2				3 of	211304	05
Item No.	Quantity Required	Part No.	Nomenclature or Description		Reference Designation	
		-000				
1		2 320279-000	CONNECTOR, RIBBON CABLE		J321, P301	
2		AR 420223-001	TAPE, PLASTIC FILM			
3		AR 510122-000	CABLE, FLAT			
4		2 410210-001	LABEL, SELF ADHESIVE			
5		2 740005-000	LABEL, SELF ADHESIVE			

WIRE/COMP NO.	FROM		TO		WIRE ITEM NO.	SIGNAL	COLOR	REMARKS
	REF. DES.	TERM ITEM/TYPE	REF. DES.	TERM ITEM/TYPE				
1	P301-1	1	J321-1	1	3	IMMA1		
2	↑ 3	↑	↑ 3	↑	↑	IMMA2		
3	↑ 5	↑	↑ 5	↑	↑	IMMA9		
4	↑ 7	↑	↑ 7	↑	↑	IMMA8		
5	↑ 9	↑	↑ 9	↑	↑	IMMA7		
6	↑ 11	↑	↑ 11	↑	↑	GND		
7	↑ 13	↑	↑ 13	↑	↑			
8	↑ 15	↑	↑ 15	↑	↑	IMMA6		
9	↑ 17	↑	↑ 17	↑	↑			
10	↑ 19	↑	↑ 19	↑	↑			
11	↑ 21	↑	↑ 21	↑	↑			
12	↑ 23	↑	↑ 23	↑	↑			
13	↑ 25	↑	↑ 25	↑	↑			
14	↑ 27	↑	↑ 27	↑	↑			
15	↑ 29	↑	↑ 29	↑	↑			
16	↑ 31	↑	↑ 31	↑	↑			
17	↑ 33	↑	↑ 33	↑	↑			
18	↑ 35	↑	↑ 35	↑	↑			
19	↓ 37	↓	↓ 37	↓	↓			
20	P301-39	1	J321-39	1	3			

T=TIN WIRE  
S6=STRIP WIRE .375

DWG NO 211304 REV 05  
SHEET 4

WIRE/COMP NO.	FROM		TO		WIRE ITEM NO.	SIGNAL	COLOR	REMARKS
	REF. DES.	TERM ITEM/TYPE	REF. DES.	TERM ITEM/TYPE				
21	P301-41	1	J321-41	1	3	IXTLN		
22	↑ 43	↑	↑ 43	↑	↑	IXTLS		
23	↑ 45	↑	↑ 45	↑	↑			
24	↑ 47	↑	↑ 47	↑	↑			
25	↑ 49	↑	↑ 49	↑	↑			
26	2		2			IMMA4		
27	4		4					
28	6		6			IMMA5		
29	8		8			IMMA3		
30	10		10					
31	12		12			GND		
32	14		14					
33	16		16			IMMA0		
34	18		18					
35	20		20					
36	22		22					
37	24		24					
38	26		26					
39	↓ 28	↓	↓ 28	↓	↓			
40	P301-30	1	J321-30	1	3			

T=TIN WIRE  
S6=STRIP WIRE .375

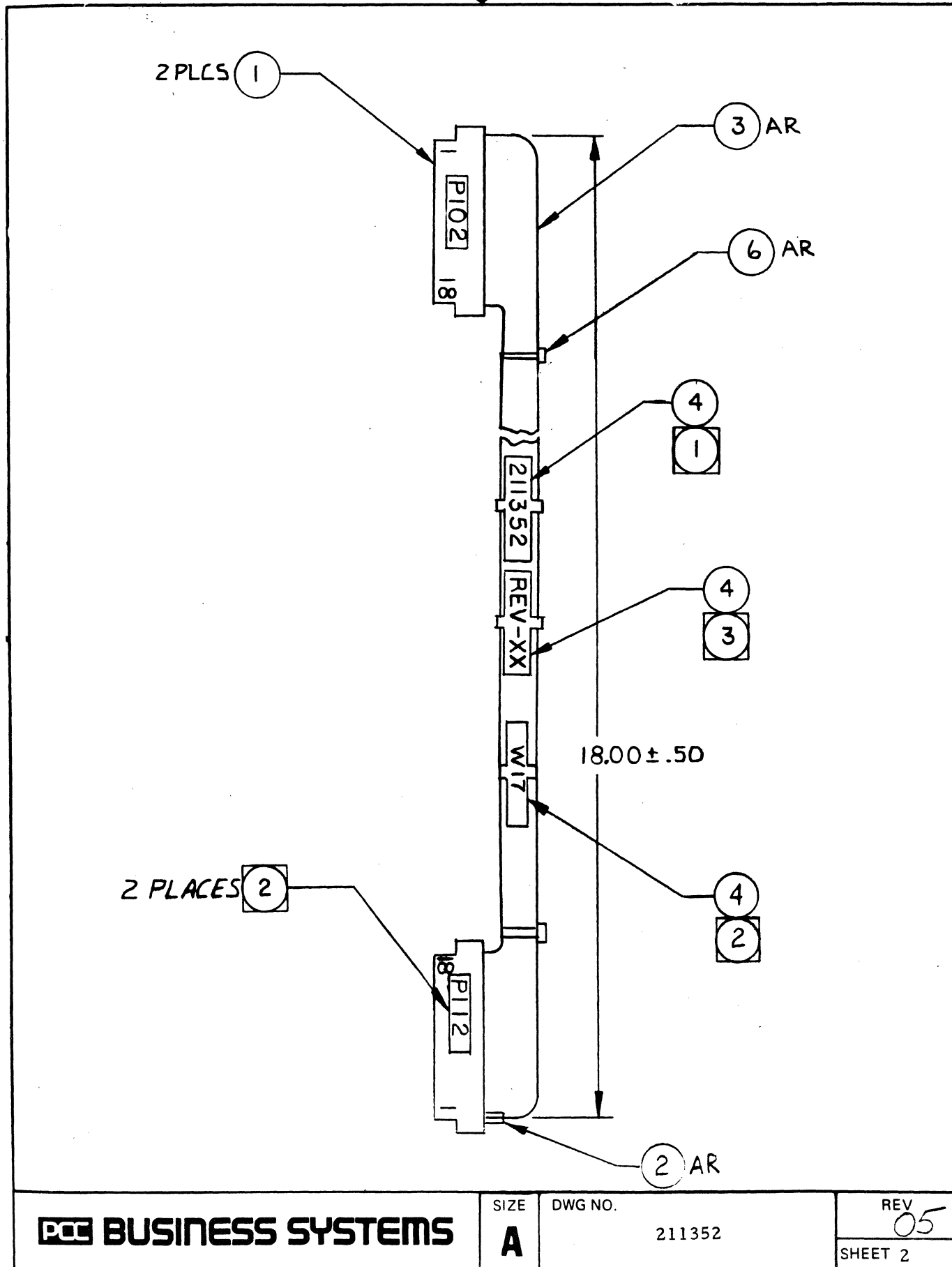
DWG NO 211304 REV 05  
SHEET 5

WIRE/COMP NO.	FROM		TO		WIRE ITEM NO.	SIGNAL	COLOR	REMARKS
	REF. DES.	TERM ITEM/TYPE	REF. DES.	TERM ITEM/TYPE				
41	P301-32	1	J321-32	1	3			
42	↑ 34	↑	↑ 34	↑	↑			
43	↑ 36	↑	↑ 36	↑	↑			
44	↑ 38	↑	↑ 38	↑	↑			
45	↑ 40	↑	↑ 40	↑	↑			
46	↑ 42	↑	↑ 42	↑	↑			
47	↑ 44	↑	↑ 44	↑	↑			
48	↑ 46	↑	↑ 46	↑	↑			
49	↓ 48	↓	↓ 48	↓	↓	GND		
50	P301-50	1	J321-50	1	3	GND		

T=TIN WIRE  
S6=STRIP WIRE .375

DWG NO 211304 REV 05  
SHEET 6





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REVISIONS				
SYM	DESCRIPTION	DRFTG	APPVD	DATE
01	RELEASE PER DRO 320-77		EB	4/22/77
02	INCORP DCO 05505	MV	EB	5/31/77
03	INCORP DCO 05994	MV	TLR EB	8/19/77
04	CODE 10 REL W/O CHANGES PER DCO 10496	LM	EB	4/8/80
05	INCORP DCO 10723	LM	EB	6/20/80

**APPLICATION**

QTY	NEXT ASSY	QTY	MODEL
			XL40
			NTP

6. PURCHASED CABLE MUST BE CSA CERTIFIED FOR USE IN ELECTRONIC DATA PROCESSING EQUIPMENT.

5. CABLE TO BE PURCHASED FROM A U.L. LISTED MANUFACTURER OR MANUFACTURED UNDER PCC CONTROL.

4. CABLE SHALL MEET THE PROVISIONS OF PERTEC SPECIFICATION 100277.

3. PERMANENTLY MARK "REV" AND APPROPRIATE REVISION LEVEL USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPEC 100034.

2. PERMANENTLY MARK REF DESIGNATION USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPEC 100034.

1. PERMANENTLY MARK ASSEMBLY NUMBER USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPEC 100034.

NOTE: UNLESS OTHERWISE SPECIFIED.

DRAWN	DEED/mv	4/22/77	<b>PERTEC</b> BUSINESS SYSTEMS DIVISION	
CHECK		4/22/77		
APPR	J.M. ZSK	4/22/77		
RELEASE	G. L. ...	4/22/77		
1 TOLERANCES .xx ±.03 ANGULAR .xxx ±.010 ±0°30' 2 REMOVE ALL BURRS 3 BREAK ALL SHARP EDGES .010 APPROX 4 MACH SURFACES 125 ✓ OR BETTER 5 INTERPRET DWG PER MIL-D-1000 6 DIM ARE IN INC-ES			TITLE	
			CABLE, TAPE #4 (W17)	
CODE IDENT. NO.	SIZE	DWG NO.	REV.	
DC CODE	A	211352	05	
SCALE	DO NOT SCALE DWG	SHEET 1	OF 5	

Item No.	Quantity Required					Part No.	Nomenclature or Description	Reference Designation
1					-000	320003-365	CONNECTOR, PCB	P102, P112
2						AR 420001-125	TUBING, SHRINK	
3						AR 510151-001	WIRE, TWISTED PAIR, 24 AWG	
4						3 420019-000	TIE, IDENTIFICATION (BLACK)	
5								
6						AR 370016-100	TIE WRAP	

790406 02

**ENGINEERING WIRE LIST**

WIRE/COMP NO.	FROM		TO		WIRE ITEM NO.	SIGNAL	COLOR	REMARKS
	REF. DES.	TERM ITEM/TYPE	REF. DES.	TERM ITEM/TYPE				
1	P102-A	S6T	P112-A	S6T	3	1WDS	WHITE	TWISTED PAIR
2	1		1			RET	BLACK	
3	C		C			1WARS	WHITE	
4	3		3			RET	BLACK	
5	E		E			1RTH1	WHITE	
6	5		5			RET	BLACK	
7	F		F			1RTH2	WHITE	
8	6		6			RET	BLACK	
9	L		L			1WDP	WHITE	
10	10		10			RET	BLACK	
11	M		M			1WD0	WHITE	
12	11		11			RET	BLACK	
13	N		N			1WD1	WHITE	
14	12		12			RET	BLACK	
15	P		P			1WD2	WHITE	
16	13		13			RET	BLACK	
17	R		R			1WD3	WHITE	
18	14		14			RET	BLACK	
19	S		S			1WD4	WHITE	
20	P102-15	S6T	P112-15	S6T	3	RET	BLACK	

T=TIN WIRE  
S6=STRIP WIRE .375

DWG NO 211352 REV 05  
SHEET 4

**ENGINEERING WIRE LIST**

WIRE/COMP NO.	FROM		TO		WIRE ITEM NO.	SIGNAL	COLOR	REMARKS
	REF. DES.	TERM ITEM/TYPE	REF. DES.	TERM ITEM/TYPE				
21	P102-T	S6T	P112-T	S6T	3	1WD5	WHITE	TWISTED PAIR
22	16		16			RET	BLACK	
23	U		U			1WD6	WHITE	
24	17		17			RET	BLACK	
25	V		V			1WD7	WHITE	
26	P102-18	S6T	P112-18	S6T	3	RET	BLACK	

T=TIN WIRE  
S6=STRIP WIRE .375

DWG NO 211352 REV 05  
SHEET 5

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REVISIONS

SYM	DESCRIPTION	DRFTG	APPVD	DATE
01	RELEASE PER DRO 320-77		EB	4/22/77 (R)
02	INCORP DCO 05506	MV	EB	5/3/77 (R)
03	INCORP DCO 05977	TC	EB	8/12/77 (R)
04	INCORP DCO 05731	DM	EB	9/12/77 (R)
05	INCORP DCO 06605	MV	EB	1/3/78 (R)
06	CODE 10 REL W/O CHANGES PER DCO 10499	LM	EB	4/19/85 (R)

APPLICATION

QTY	NEXT ASSY	QTY	MODEL
1	211348	-	XL40
1	211357		NTP

- 6 SECURE CABLE TO CONNECTOR BY USE OF A TIE WRAP (ITEM 9) ROUTED THRU THE CONNECTOR MOUNTING HOLE.
- 5 PERMANENTLY MARK "REV" AND APPROPRIATE REVISION LEVEL USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPEC 100034.
- 4 PERMANENTLY MARK REF DESIGNATION USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPEC 100034.
- 3 PERMANENTLY MARK ASSEMBLY NUMBER USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPEC 100034.
- 2 INSTALL ITEM 8 (CONNECTOR KEY) AT PIN 44 OF P001.
- 1 INSTALL ITEM 5 BETWEEN PIN 7 AND PIN 9 OF P011 AND BETWEEN PINS 25 AND 27 OF P012.

NOTE: UNLESS OTHERWISE SPECIFIED.

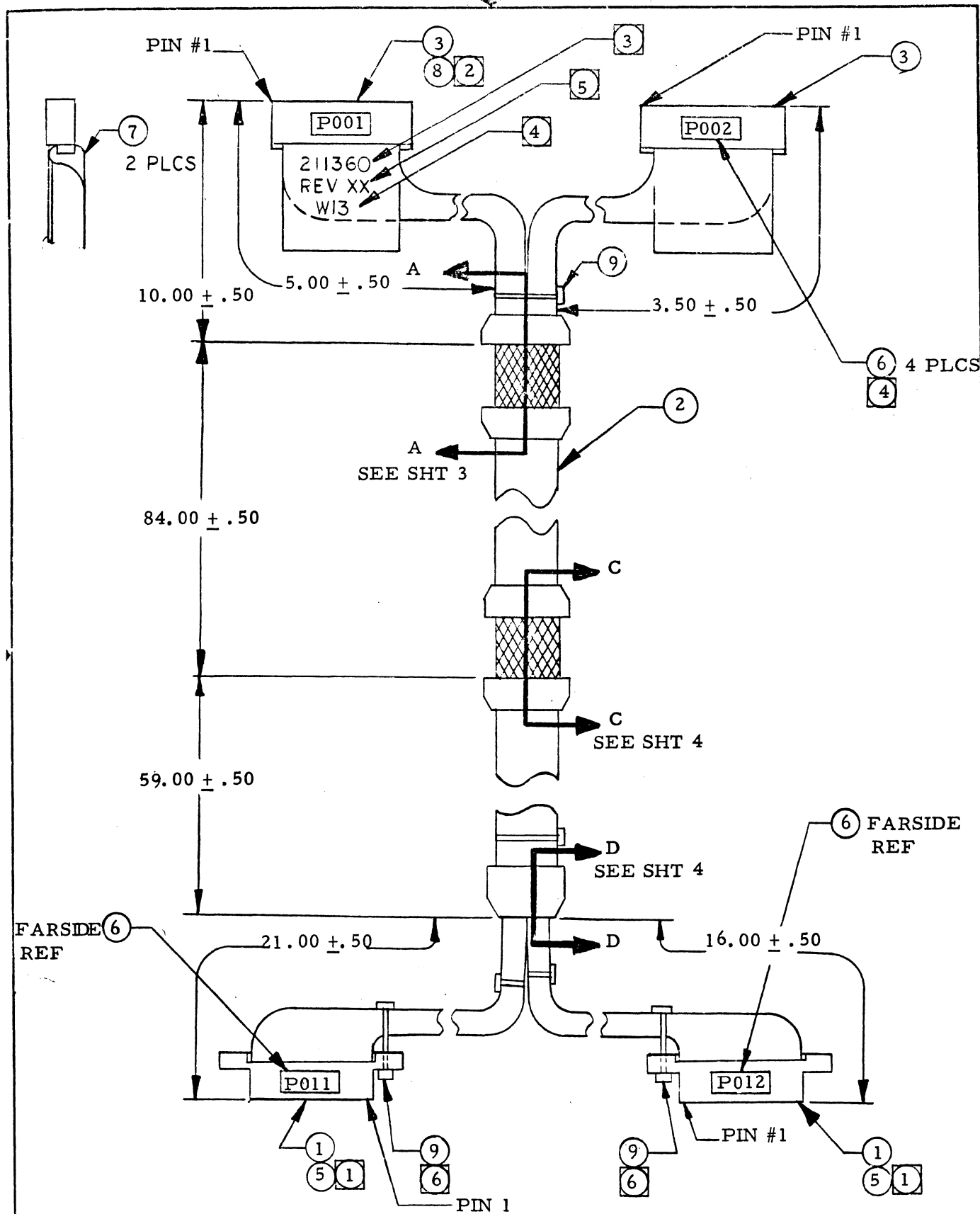
DRAWN	DEED/mv	4/22/77
CHECK	<i>[Signature]</i>	4/22/77
APPR	J.M. KSK	4/24/77
R/RELEASE	G.B. <i>[Signature]</i>	4/22/77

**PERTEC** BUSINESS SYSTEMS DIVISION

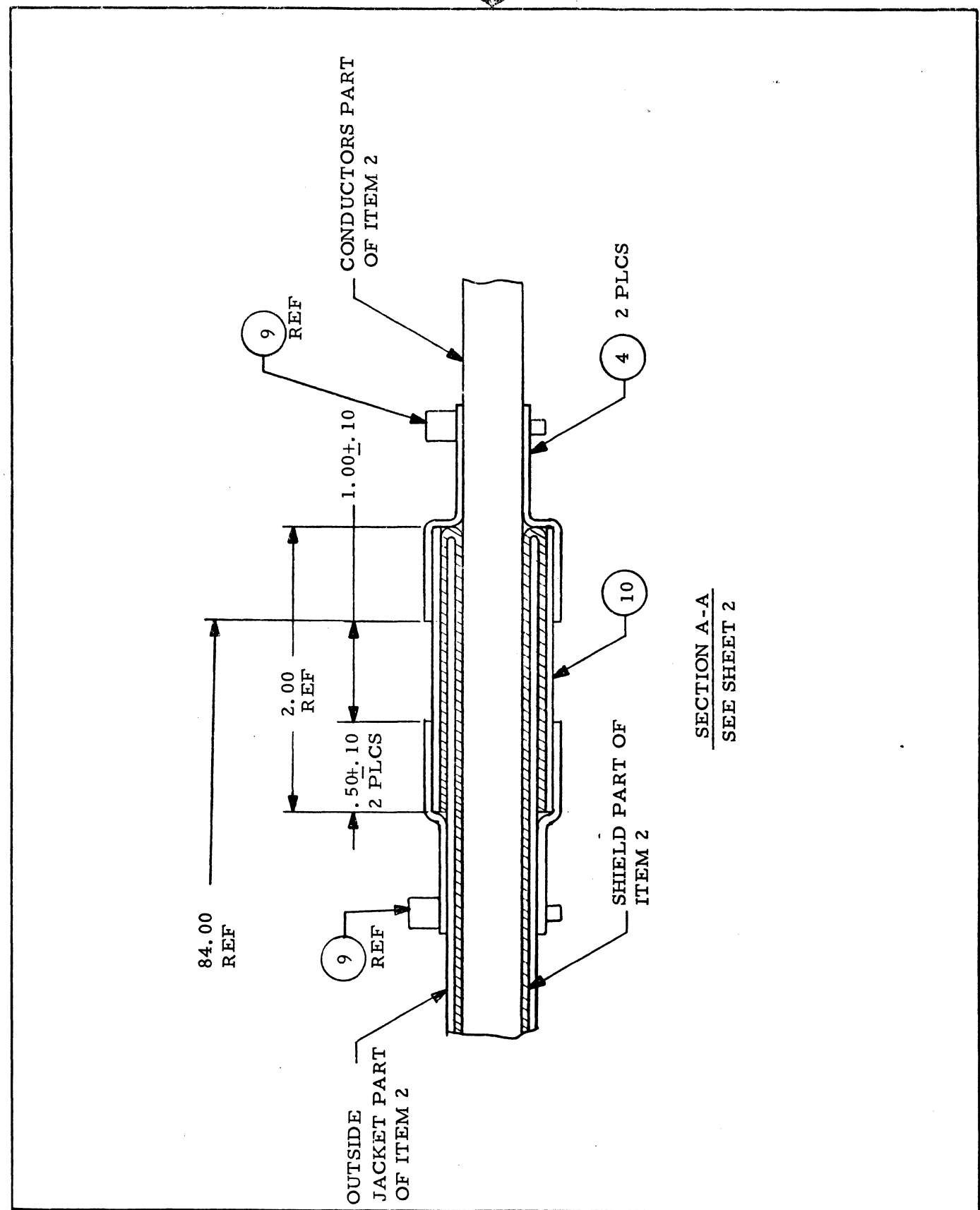
TITLE  
CABLE, TAPE #1 (W13)

- 1 TOLERANCES  
.xx ±.03 ANGULAR  
.xxx ±.010 ±0°30'
- 2 REMOVE ALL BURRS
- 3 BREAK ALL SHARP EDGES  
.010 APPROX
- 4 MACH SURFACES 125 ✓ OR BETTER
- 5 INTERPRET DWG PER MIL-D-1000
- 6 DIM ARE IN INCHES

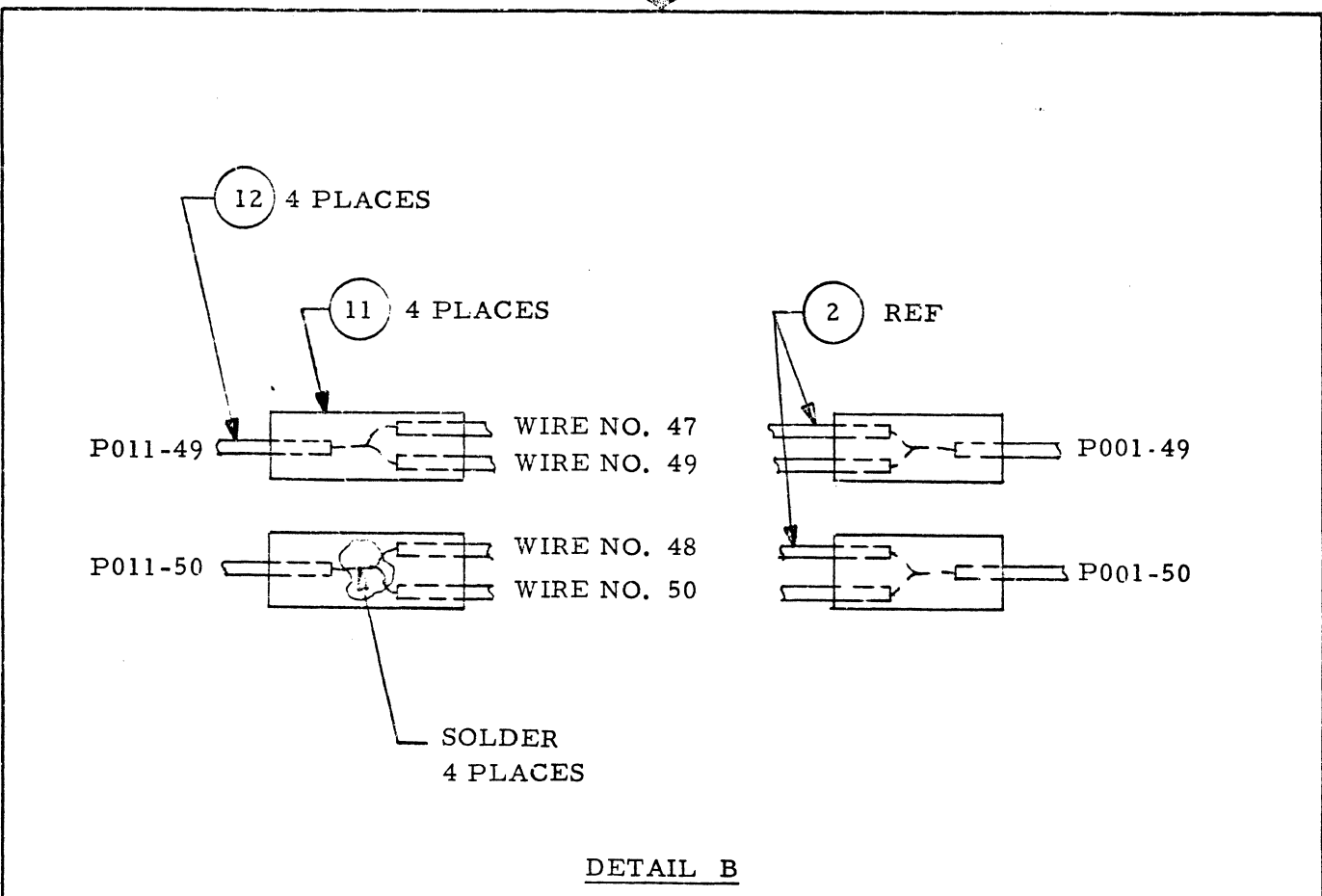
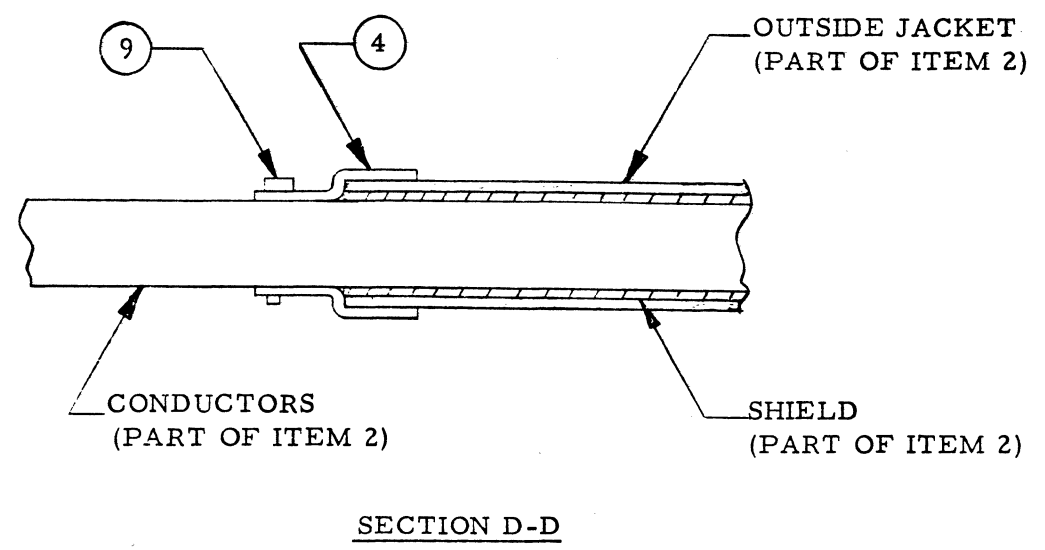
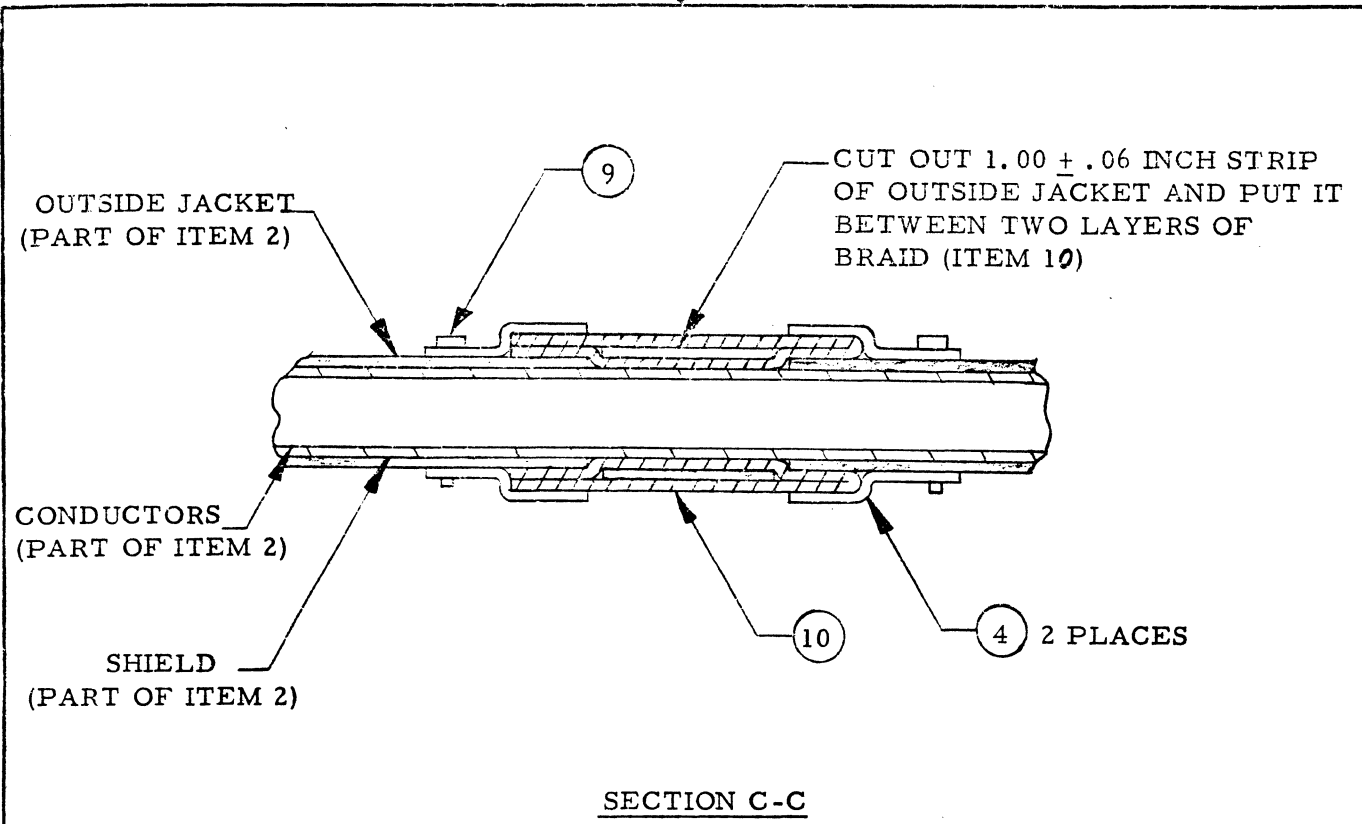
CODE IDENT. NO.	SIZE	DWG NO.	REV.
D/C CODE 10	A	211360	06
SCALE NONE	DO NOT SCALE DWG	SHEET 1	OF 11



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	790104-06				



	SIZE <b>A</b>	DWG NO. 211360	REV 06 SHEET 3
	SECTION A-A SEE SHEET 2		



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		A	211360	06
			SHEET 4	

	BUSINESS SYSTEMS	SIZE	DWG NO.	REV
		A	211360	06
			SHEET 5	

BUSINESS SYSTEMS

MATERIAL LIST

Sheet 6 ML Des. No. 211360 Rev. 06

Item No.	Quantity Required	Part No.	Nomenclature or Description	Reference Designation
1		-000		
2	2	320279-000	CONNECTOR, CARD EDGE, IDC	P011, P012
3	AR	510132-001	CABLE, 28AWG TWISTED PAIR	
4	2	320258-011	CONNECTOR, SOCKET, IDC	P001, P002
5	AR	420001-750	TUBING, SHRINK	
6	2	320279-001	KEY, CONNECTOR CARD EDGE	
7	AR	700027	TAPE, IDENTIFICATION (BLACK)	
8	1	340022-004	PULL TAB, RIBBON CABLE CONN.	
9	2	320302	KEY, IDC SOCKET	
10	AR	370016-100	TIE, WRAP	
11	AR	510093-010	BRAID	
12	AR	420001-125	TUBING, SHRINK	
	AR	510025-928	WIRE, 28AWG UL 1061	

PERTEC BUSINESS SYSTEMS DIVISION

ENGINEERING WIRE LIST

WIRE/COMP NO.	FROM		TO		WIRE ITEM NO.	SIGNAL	COLOR	REMARKS
	REF DES	TERM ITEM/TYPE	REF DES	TERM ITEM/TYPE				
1	P011-1(A1)	1	P001-1	3	2	RTN	WHITE	TWISTED PAIR
2	2(B1)					ISLT3		
3	3(A2)					RTN		
4	4(B2)					ISLT2		
5	5(A3)					RTN		
6	6(B3)					1RDP		
7	7(A4)					RTN		
8	8(B4)					1RDS		
9	9(A5)					RTN		
10	10(B5)					1RD0		
11	11(A6)					RTN		
12	12(B6)					1RD1		
13	13(A7)					RTN		
14	14(B7)					1RD2		
15	15(A8)					RTN		
16	16(B8)					1RD3		
17	17(A9)					RTN		
18	18(B9)					1RD4		
19	19(A10)					RTN		
20	P011-20(B10)	1	P001-20	3	2	1RD5	WHITE	TWISTED PAIR

T=TIN WIRE  
S6=STRIP WIRE .375

DWG NO 211360  
SHEET 7

PERTEC BUSINESS SYSTEMS DIVISION

ENGINEERING WIRE LIST

WIRE/COMP NO.	FROM		TO		WIRE ITEM NO.	SIGNAL	COLOR	REMARKS
	REF DES	TERM ITEM/TYPE	REF DES	TERM ITEM/TYPE				
21	P011-21(A11)	1	P001-21	3	2	RTN	WHITE	TWISTED PAIR
22	22(B11)					1RD6		
23	23(A12)					RTN		
24	24(B12)					1RD7		
25	25(A13)					RTN		
26	26(B13)					1EOT		
27	27(A14)					RTN		
28	28(B14)					ISGL		
29	29(A15)					RTN		
30	30(B15)					INRZ		
31	31(A16)					RTN		
32	32(B16)					17FR		
33	33(A17)					RTN		
34	34(B17)					1SPD		
35	35(A18)					RTN		
36	36(B18)					1RWD		
37	37(A19)					RTN		
38	38(B19)					1RDY		
39	39(A20)					RTN		
40	P011-40(B20)	1	P001-40	3	2	1LDP	WHITE	TWISTED PAIR

T=TIN WIRE  
S6=STRIP WIRE .375

DWG NO 211360  
SHEET 8

PERTEC BUSINESS SYSTEMS DIVISION

ENGINEERING WIRE LIST

WIRE/COMP NO.	FROM		TO		WIRE ITEM NO.	SIGNAL	COLOR	REMARKS
	REF DES	TERM ITEM/TYPE	REF DES	TERM ITEM/TYPE				
41	P011-41(A21)	1	P001-41	3	2	RTN	WHITE	TWISTED PAIR
42	42(B21)					1FPT		
43	43(A22)					RTN		
44								
45	45(A23)					RTN		
46	46(B23)					RTN		
47	47(A24)					& 12 +5V		
48	48(B24)					& 12 +5V		
49	49(A25)					& 12 +5V		
50	P011-50(B25)	1	P001-50	3	2	& 12 +5V		
51	P012-1(A1)		P002-1			RTN		
52	2(B1)					1RTH1		
53	3(A2)					RTN		
54	4(B2)					1DDS		
55	5(A3)					RTN		
56	6(B3)					1OVW		
57	7(A4)					RTN		
58	8(B4)					1RTH2		
59	9(A5)					RTN		
60	P012-10(B5)	1	P002-10	3	2	1SWS	WHITE	TWISTED PAIR

T=TIN WIRE  
S6=STRIP WIRE .375

DWG NO 211360  
SHEET 9

SEE DETAIL B SHEET 5

PERTEC BUSINESS SYSTEMS DIVISION

ENGINEERING WIRE LIST

WIRE/COMP NO.	FROM		TO		WIRE ITEM NO.	SIGNAL	COLOR	REMARKS
	REF DES	TERM ITEM/TYPE	REF DES	TERM ITEM/TYPE				
61	P012-11(A6)	1	P002-11	3	2	RTN	WHITE	TWISTED PAIR
62	12(B6)					1SRC		
63	13(A7)					RTN		
64	14(B7)					1LOAD		
65	15(A8)					RTN		
66	16(B8)					1OFFC		
67	17(A9)					RTN		
68	18(B9)					1WARS		
69	19(A10)					RTN		
70	20(B10)					1SFC		
71	21(A11)					RTN		
72	22(B11)					1RWC		
73	23(A12)					RTN		
74	24(B12)					1WDS		
75	25(A13)					RTN		
76	26(B13)					1SLT1		
77	27(A14)					RTN		
78	28(B14)					1SLT0		
79	29(A15)					RTN		
80	P012-30(B15)	1	P002-30	3	2	1WDP	WHITE	TWISTED PAIR

T=TIN WIRE  
S6=STRIP WIRE .375

DWG NO 211360  
SHEET 10

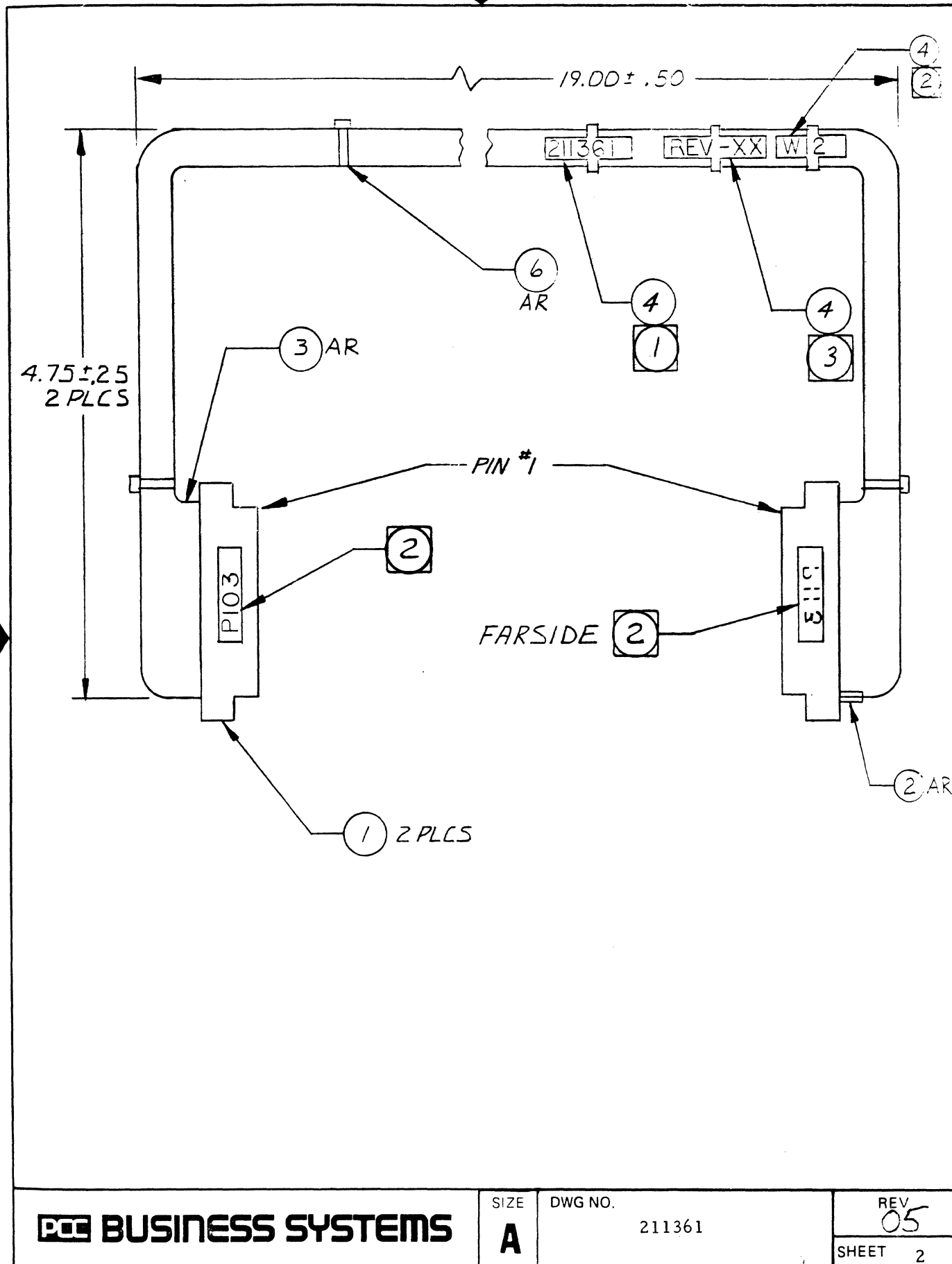
PERTEC BUSINESS SYSTEMS DIVISION

ENGINEERING WIRE LIST

WIRE/COMP NO.	FROM		TO		WIRE ITEM NO.	SIGNAL	COLOR	REMARKS
	REF DES	TERM ITEM/TYPE	REF DES	TERM ITEM/TYPE				
81	P012-31(A16)	1	P002-31	3	2	RTN	WHITE	TWISTED PAIR
82	32(B16)					1WD0		
83	33(A17)					RTN		
84	34(B17)					1WD1		
85	35(A18)					RTN		
86	36(B18)					1WD2		
87	37(A19)					RTN		
88	38(B19)					1WD3		
89	39(A20)					RTN		
90	40(B20)					1WD4		
91	41(A21)					RTN		
92	42(B21)					1WD5		
93	43(A22)					RTN		
94	44(B22)					1WD6		
95	45(A23)					RTN		
96	46(B23)					1WD7		
97	47(A24)					RTN		
98	48(B24)					1ONL		
99	49(A25)					RTN		
100	P012-50(B25)	1	P002-50	3	2	1DDI	WHITE	TWISTED PAIR

T=TIN WIRE  
S6=STRIP WIRE .375

DWG NO 211360  
SHEET 11



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REVISIONS

SYM	DESCRIPTION	DRFTG	APPVD	DATE
01	RELEASE PER DRO 320-77		EB	4/22/77 (R)
02	INCORP DCO 05507	MV	EB	5/31/77 (R)
03	INCORP DCO 06060	MV	TLR EB	8/18/77 (R)
04	Code 10 Rel W/O Changes per DCO 06410	MV	EB	7/7/78 (R)
05	INCORP DCO 10723	LM	EB	6/20/80 (R)

APPLICATION

QTY	NEXT ASSY	QTY	MODEL
			XL40

- 6. PURCHASED CABLE MUST BE CSA CERTIFIED FOR USE IN ELECTRONIC DATA PROCESSING EQUIPMENT.
- 5. CABLE TO BE PURCHASED FROM A U.L. LISTED MANUFACTURER OR MANUFACTURED UNDER PCC CONTROL.
- 4. CABLE SHALL MEET THE PROVISIONS OF PERTEC SPECIFICATION 100277.
- 3. PERMANENTLY MARK "REV" AND APPROPRIATE REVISION LEVEL USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPEC 100034.
- 2. PERMANENTLY MARK REF DESIGNATION USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPEC 100034.
- 1. PERMANENTLY MARK ASSEMBLY NUMBER USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPEC 100034.

NOTE: UNLESS OTHERWISE SPECIFIED.

DRAWN	DEED/mv	4/22/77
CHECK		
APPR	JW JSK	4/22/77
RELEASE	G.S.	

**PERTEC** BUSINESS SYSTEMS DIVISION

TITLE			
CABLE, TAPE #6 (W12)			
CODE IDENT. NO.	SIZE	DWG NO.	REV.
D C CODE	A	211361	05
SCALE	DO NOT SCALE DWG		SHEET 1 OF 4

- 1 TOLERANCES  
.xx ±.03 ANGULAR  
.xxx ±.010 ±0°30'
- 2 REMOVE ALL BURRS
- 3 BREAK ALL SHARP EDGES .010 APPROX
- 4 MACH SURFACES 125 ✓ OR BETTER
- 5 INTERPRET DWG PER MIL-D-1000
- 6 DIM ARE IN INCHES

**PERTEC BUSINESS SYSTEMS**

SIZE	DWG NO.	REV
A	211361	05
		SHEET 2

Item No.	Quantity Required						Part No.	Nomenclature or Description	Reference Designation
						-000			
1						2	320003-365	CONNECTOR, PCB	P103, P113
2						AR	420001-125	TUBING, SHRINK	
3						AR	510151-001	WIRE, TWISTED PAIR, 24AWG	
4						3	420019-000	TIE, IDENTIFICATION (BLACK)	
5									
6						AR	370016-100	TIE, WRAP	

790406 02

WIRE/COMP NO.	FROM		TO		WIRE ITEM NO.	SIGNAL	COLOR	REMARKS
	REF. DES.	TERM ITEM/TYPE	REF. DES.	TERM ITEM/TYPE				
1	P103-1	S6T	P113-1	S6T	3	1RDP	WHITE	TWISTED PAIR
2	↑ A	↑	↑ A	↑	↑	RET	BLACK	
3	2		2			1RDS	WHITE	
4	B		B			RET	BLACK	
5	3		3			1RD0	WHITE	
6	C		C			RET	BLACK	
7	4		4			1RD1	WHITE	
8	D		D			RET	BLACK	
9	8		8			1RD2	WHITE	
10	J		J			RET	BLACK	
11	9		9			1RD3	WHITE	
12	K		K			RET	BLACK	
13	14		14			1RD4	WHITE	
14	R		R			RET	BLACK	
15	15		15			1RD5	WHITE	
16	S		S			RET	BLACK	
17	17		17			1RD6	WHITE	
18	U		U			RET	BLACK	
19	↓ 18	↓	↓ 18	↓	↓	1RD7	WHITE	
20	P103-V	S6T	P103-V	S6T	3	RET	BLACK	

T = TIN WIRE  
S6 = STRIP WIRE .375

DWG NO	211361	REV	05
SHEET	4		

790242-02



8

7

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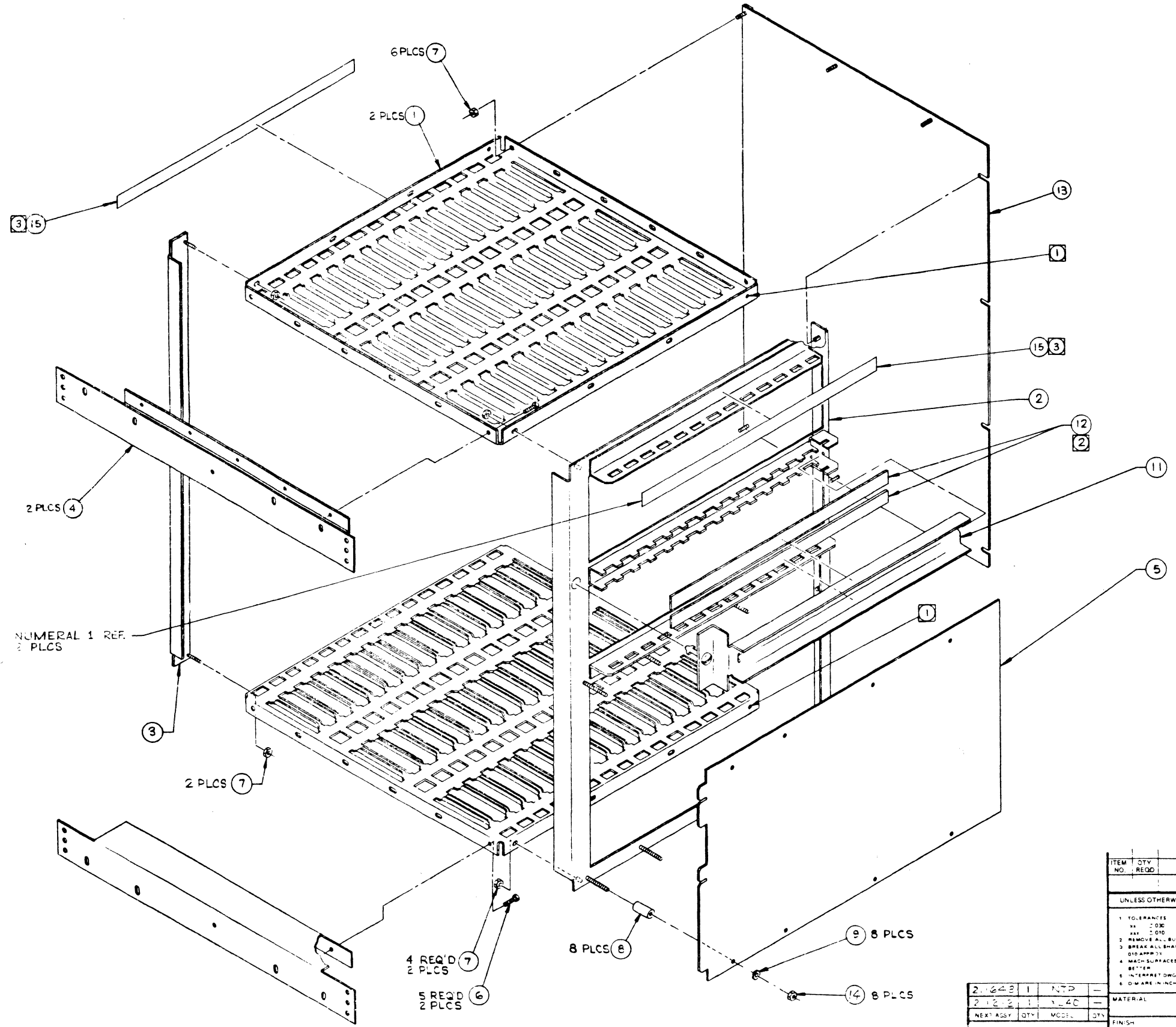
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1

REVISIONS				
SY	DESCRIPTION	DRFTG	APPROVED	DATE
C1	RELEASE PER DCO			10/10/78
D2	INCORP DCO 09378	C.B.	RECE	10/18/78
D3	SEE VARIATION DCO 09080	TA		11/23/78
D4	INCORP DCO 09331	TA		11/23/78
D5	SEE VARIATION DCO 09336	TA		11/23/78
D6	INCORP DCO 09351	TA		11/23/78
D7	INCORP DCO 10184	Bbb.S.		11/23/78
D8	CODE 10 REL W/ CHANGE PER DCO 10499	JW	WTB	4/19/80



**NOTE: UNLESS OTHERWISE SPECIFIED**

① .140 DIA HOLES IN PCBA GUIDE MUST ALWAYS BE IN POSITION SHOWN

② CUT POLY SPONGE TAPE INTO 10.40 LENGTHS AND INSTALL APPROX AS SHOWN.

③ POSITION ITEM 15 (LABEL) SO THAT NUMERAL 1 IS IN LINE WITH J101 ON B/W PCBA.

ITEM NO.	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION
MATERIAL LIST			
UNLESS OTHERWISE SPECIFIED		DRAWN	DATE
1. TOLERANCES	ANGULAR	1/25-78	10-15
2. DIMS	0.30		
3. BREAK ALL SHARP EDGES			
4. MACH SURFACES 125 / OR BETTER			
5. INTERPRET DIMS PER MIL-D-1000			
6. DIMS ARE IN INCHES			
MATERIAL		TITLE	
		CARD CAGE ASSY, MCU-I	
FINISH		CODE IDENT NO.	SIZE DWG NO.
		D	211588
APPLICATION		REV	08
		SCALE 1/2	DO NOT SCALE DWG SHEET 1 OF 2

D

C

B

A



**MATERIAL LIST**

Sheet 2 of 2

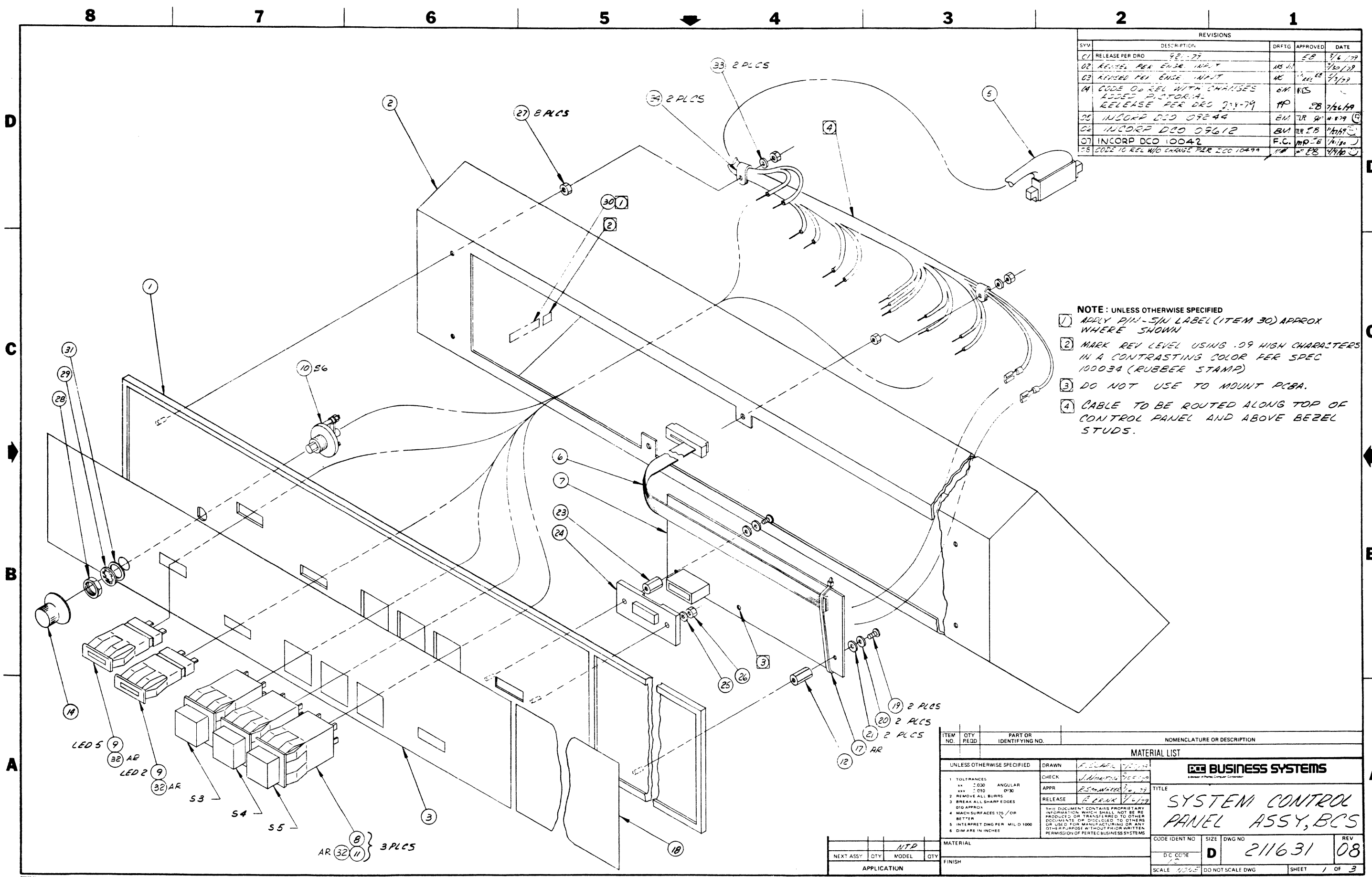
ML  
Dwg. No.

211588

Rev.

08

Item No.	Quantity Required						Part No.	Nomenclature or Description	Reference Designation
						-000			
1						2	241981	GUIDE, PCBA	
2						1	230674	BACKPLANE, CARD CAGE	
3						1	230655-000	STIFFENER, CARD CAGE	
4						2	241982	HANGER, CARD CAGE	
5						1	261141	PCBA, XL BACKWIRING	
6						10	370651-000	SCREW, HEX HD	
7						16	370681-000	NUT, SELF LOCKING SM PATTERN	
8						8	420002-610	SPACER, FIBER	
9						8	370007-600	WASHER, FLAT FIBER	
10									
11						1	241785	SUPPORT, I/O CONNECTORS	
12						AR	700050-104	TAPE, POLY FOAM	
13						1	230653	PLATE, CARD CAGE BOTTOM	
14						8	370707-002	NUT, HEX SLOTTED LOCKING	
15						2	290349-000	LABEL, SLOT IDENTIFICATION	



REVISIONS				
SYM	DESCRIPTION	DRFTG	APPROVED	DATE
01	RELEASE PER DRO 981-79		EB	3/6/79
02	REVISED PER ENGR. INVT	MS	EB	3/20/79
03	REVISED PER ENGR. INVT	MS	EB	3/21/79
04	CODE 06 REL WITH CHARACTERS ADDED FOR IDENTIFICATION. RELEASE PER DRO 984-79	EM	KCS	
05	INCORP DCO 09844	EM	TR 98	4/17/79
06	INCORP DCO 09612	EM	TR 98	4/17/79
07	INCORP DCO 10042	F.C.	MD 98	4/17/79
08	CODE 16 REL W/O CHANGE PER DCO 10499	EM	EB	4/17/79

**NOTE: UNLESS OTHERWISE SPECIFIED**

- 1 APPLY PIN-S/N LABEL (ITEM 30) APPROX WHERE SHOWN
- 2 MARK REV LEVEL USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPEC 100034 (RUBBER STAMP)
- 3 DO NOT USE TO MOUNT PCBA.
- 4 CABLE TO BE ROUTED ALONG TOP OF CONTROL PANEL AND ABOVE BEZEL STUDS.

ITEM NO.	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION
<b>MATERIAL LIST</b>			
UNLESS OTHERWISE SPECIFIED		DRAWN	<i>[Signature]</i> 3/20/79
CHECK		APPR	<i>[Signature]</i> 3/20/79
RELEASE		RELEASE	<i>[Signature]</i> 3/21/79
1 TOLERANCES XX .030 ANGULAR XXX .010 D/30 2 REMOVE ALL BURRS 3 BREAK ALL SHARP EDGES D10 APPROX 4 MACH SURFACES 125 /OR BETTER 5 INTERPRET DWG PER MIL-D-1000 6 DIM ARE IN INCHES		THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF PERTEC BUSINESS SYSTEMS.	
TITLE <b>SYSTEM CONTROL PANEL ASSY, BCS</b>		CODE IDENT NO	SIZE DWG NO
MATERIAL FINISH		DWG CODE	REV
APPLICATION NEXT ASSY QTY MODEL QTY		SCALE	SHEET
		D	211631 08
		DO NOT SCALE DWG	1 OF 3

Item No.	Quantity Required					Part No.	Nomenclature or Description	Reference Designation
					-000			
1					1	230693-001	BEZEL, SYSTEM CONTROL	
2					1	230692-001	PANEL, SYSTEM CONTROL	
3					1	290327-000	OVERLAY, CONTROL PANEL	
4								
5					1	211766-000	HARNESS, SYSTEM CONTROL	A3W1
6					1	211256-002	CABLE, DIAGNOSTIC DSPL	W9
7					1	260992-000	PCBA, DIAGNOSTIC DSPL	A3A1
8					3	480116-000	SWITCH	S3,S4,S5
9					2	530094-001	INDICATOR (YELLOW)	LED 2, LED 5
10					1	480139-001	SWITCH, ROTARY	S6
11					3	420189-002	CAP, SWITCH	
12					1	370079-412	STANDOFF, HEX	
13								
14					1	360001-113	KNOB, ROTARY	
15								
16								
17					AR	370016-300	TIE WRAP	
18					1	290335-000	LOGO	
19					2	370036-404	SCREW, LOCKING 4-40 X .25	
20					2	370002-400	WASHER, FLAT	
21					2	370007-400	WASHER, FLAT FIBER	
22								
23					1	370079-410	STANDOFF, HEX	
24					1	242001-000	LENS, SYSTEM STATUS	

Item No.	Quantity Required					Part No.	Nomenclature or Description	Reference Designation
					-000			
25					1	370012-400	WASHER, FLAT NYLON	
26					1	370027-400	NUT, LOCKING	
27					8	370027-600	NUT, LOCKING	
28					1	370695-001	NUT, HEX, SMALL PATTERN	
29					1	370694-001	WASHER, LOCKING 3/8 I.D.	
30					1	290231-000	LABEL, IDENTIFICATION	
31					1	370696-001	WASHER, FLAT 3/8 I.D.	
32					AR	420115-150	TUBING, SHRINK	
33					2	370002-600	WASHER, FLAT	
34					2	370008-610	CLAMP	

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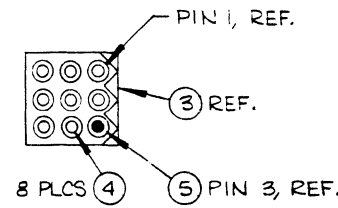
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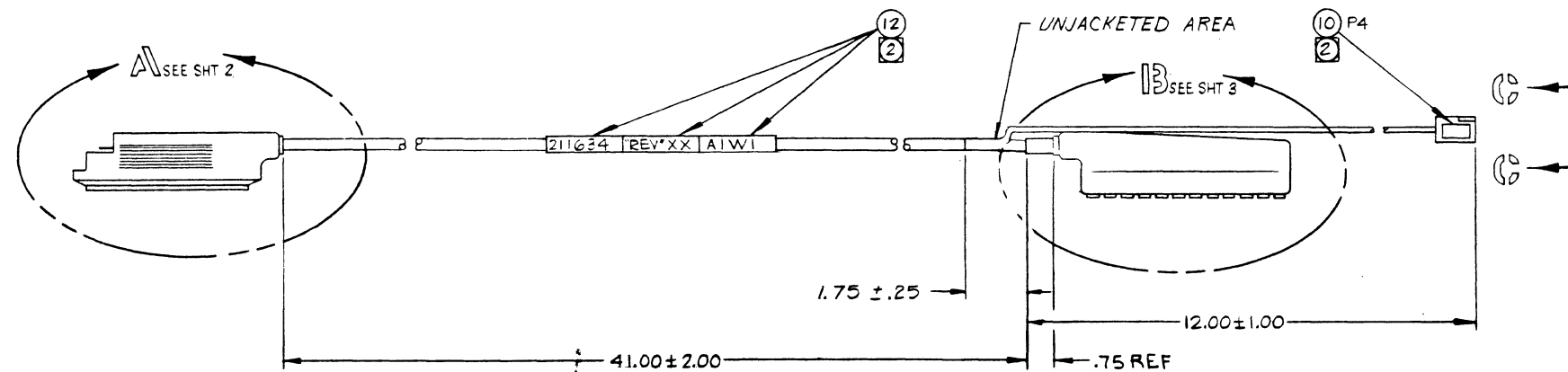
2

1

REVISIONS				
SYM	DESCRIPTION	DRFTG	APPROVED	DATE
01	RELEASE PER DRO		EB	3/15/79
02	REVISED NOTES 4 & 2 PER ENG. INPUT	TA	EB	3/25/79
03	CODE 05 REL W/O CHANGE PER DRD	TCA	EB	4/4/79
04	INCORP DCO 09043	TAF	EB	5/14/79
05	NCOEP DCO 09179	BOOS	EB	8/1/79
06	INCORP DCO 09487	WAP	EB	9/12/79
07	NCOEP DCO 09391	MYA	EB	10/25/79
08	CODE 06 RELEASE WITH CHANGES PER DCO 09580	TC	EB	11/16/79
09	CODE 10 RELEASE W/O CHANGE PER DCO 10499	PT	EB	4/1/80



VIEW (C)-(C)  
SCALE: NONE  
ROTATED 90° CW



NOTE: UNLESS OTHERWISE SPECIFIED

- 1 MARK REFERENCE DESIGNATIONS APPROX WHERE SHOWN USING .09 HIGH MIN CHARACTERS IN A CONTRASTING COLOR.
- 2 PERMANENTLY MARK PART NUMBER, "REV" AND APPROPRIATE REVISION LEVEL, AIWI REFERENCE DESIGNATIONS USING .09 HIGH CHARACTERS IN CONTRASTING COLOR PER SPEC 100034.
- 3 PART MAY BE MANUFACTURED BY COMPONENT MANUFACTURING SERVICE, INC., WEST BRIDGEWATER MASS. 02379
- 4 WIRE TO BE ENCLOSED IN A U.L. APPROVED 70 DUROMETER PVC JACKET .040 THICK NOMINAL O.D. .488.
- 5 PINS WITH LOCATING DIMENSIONS SHOWN, ARE TO MATE WITH MOLEX CONNECTOR 09-05-7021.
- 6 COLOR OF MOLDED COMPONENTS AND CABLE JACKET TO BE BLACK.
- 7 PART MAY BE PURCHASED FROM VIKING INDUSTRIES, CHATSWORTH CA. 91311
- 8 PART MAY BE PURCHASED FROM KULKA PRODUCTS, MOUNT VERNON, NY.

NOTES: (CONTINUED)

- 9 PART MAY BE PURCHASED FROM MOLEX INC., LISLE, IL. 60532
- 10 PART MAY BE PURCHASED FROM PANDUIT CORP, TINLEY PARK, IL. 60477
- 11 PART MAY BE PURCHASED FROM PARA-TONE, COUNTRYSIDE, IL. 60525
- 12 PART MAY BE PURCHASED FROM ALPHA WIRE AND CABLE CO., TORRENCE CA. 90503
- 13. CABLE SHALL BE UNDERWRITERS LABORATORIES INC. LISTED WIRING HARNESS AND SHALL BE MARKED IN ACCORDANCE WITH UL REQUIREMENT FOR LISTED WIRING HARNESSES.
- 14. CABLE SHALL BE CANADIAN STANDARDS ASSOCIATION CERTIFIED FOR USE IN DATA PROCESSING EQUIPMENT AND SHALL BE MARKED WITH CSA CERTIFICATION MARK.

ITEM NO.	QTY REQD	PERTEC PART NO.	IDENT NUMBER MFG OR SPEC	DESCRIPTION	MANUFACTURER
10	12	3	420019-000	PLMIM	TIE, IDENTIFICATION
12	11	A/R		18 AWG	WIRE, SOLID BUS TINNED COPPER, SOFT DRAWN
11	10	A/R	700027-000	F-40-M	TAPE, IDENT
9					PANDUIT
4	6	A/R	510025-022	22 AWG	WIRE, U/L 1061 STRANDED VINYL, 300V 80°C
4	7	A/R	510025-020	20 AWG	WIRE, U/L 1061 STRANDED VINYL, 300V 80°C
4	6	A/R	510025-016	16 AWG	WIRE, U/L 1061 STRANDED VINYL, 300V 80°C
9	5	1	320095-224	02-09-2141	CONTACT, MALE .093 SERIES
9	4	8	320095-124	02-09-1141	CONTACT, FEMALE .093 SERIES
9	3	1	32002-095	03-09-1093	CONNECTOR, NYLON .093 SERIES
8	2	1	420219-000	651-AR-12-XP	FANNING STRIP, RT ANGLE
7	1	1	320090-401	3V440/NJE	CONNECTOR, PCBA

MATERIAL LIST

UNLESS OTHERWISE SPECIFIED	DRAWN	CHKD	DATE
1. TOLERANCES XX .030 ANGULAR XXX .010 .030	Bar Simmons	Bar Simmons	2/15/79
2. REMOVE ALL BURRS			
3. BREAK ALL SHARP EDGES			
4. O/D APPROX			
5. MACH SURFACES 125/ON BETTER			
6. INTERPRET DWG PER U.D. 1000			
7. DIM ARE IN INCHES			

**BUSINESS SYSTEMS**

TITLE: CABLE, MOLDED DC POWER DISTRIBUTION (AIWI)

CODE IDENT NO: D 211634 09

SCALE: 1/8" = 1" DO NOT SCALE DWG SHEET 1 OF 7

APPLICATION	FINISH
MULTI - N/P -	
MULTI - PLAC -	
MULTI - RECD -	
NEXT ASSY QTY MODEL QTY	

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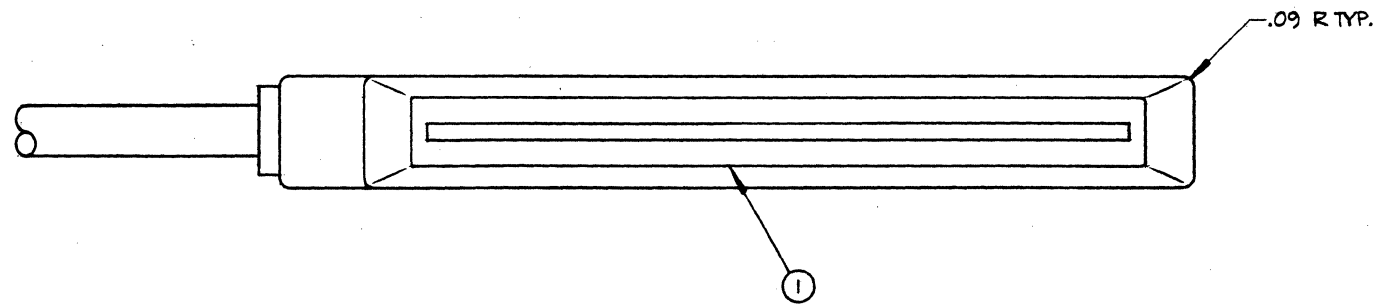
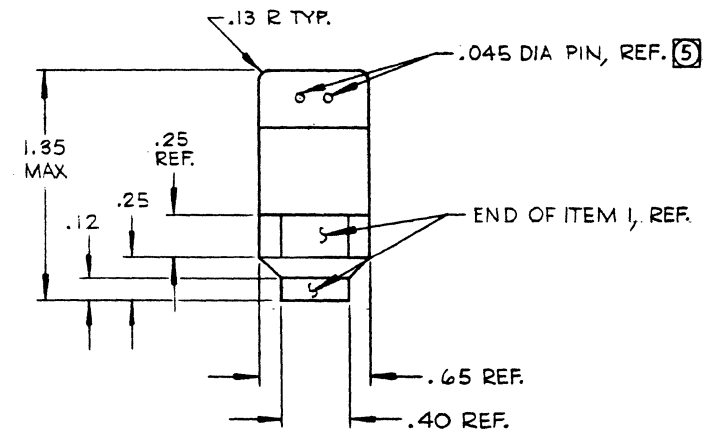
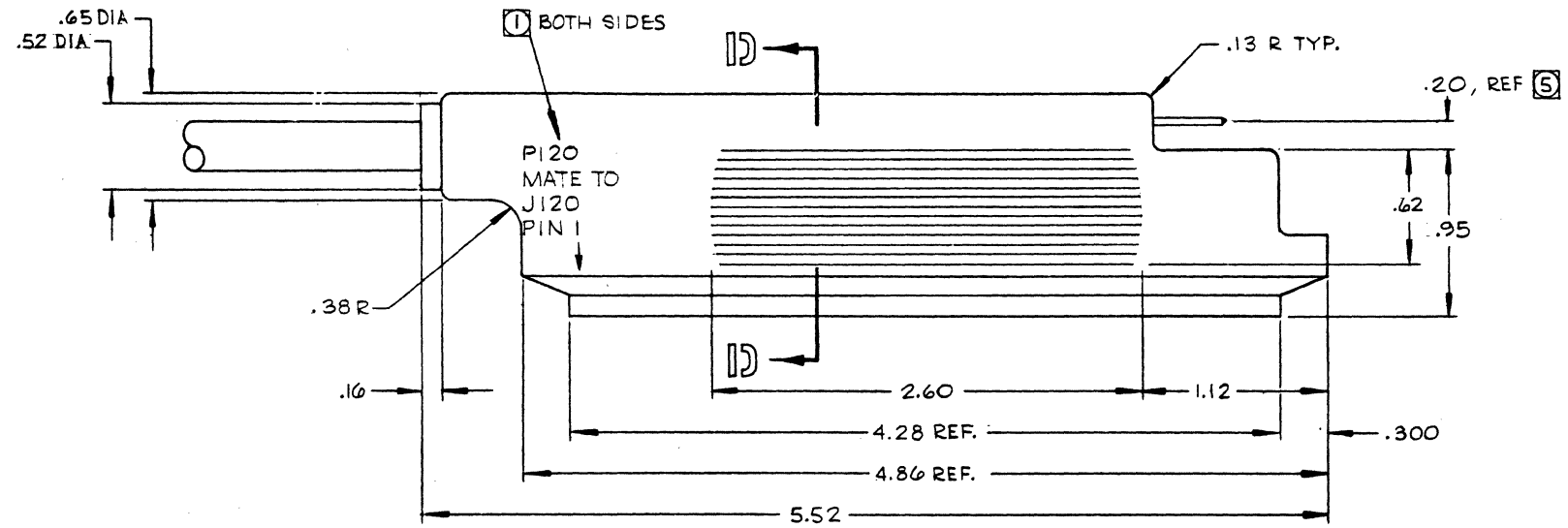
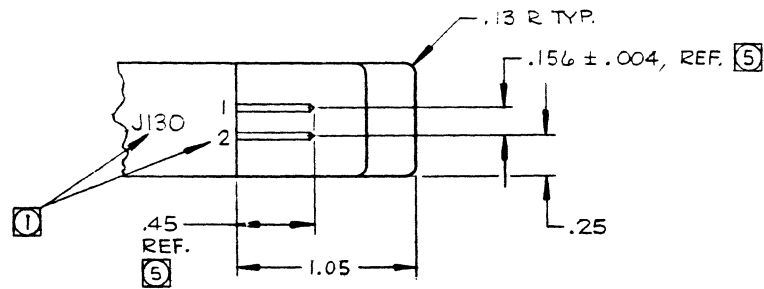
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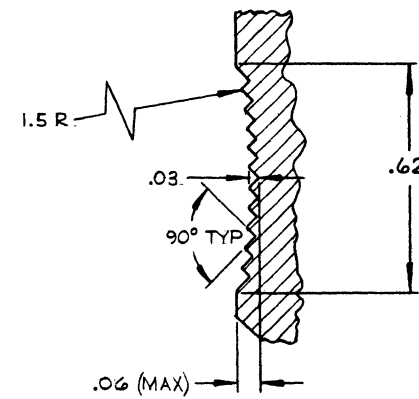
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A



DETAIL A  
SCALE: 2/1  
ROTATED 180°



SECTION D-D  
TYPICAL BOTH SIDES  
SCALE: 4/1

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	D	211634	09
DO NOT SCALE DWG		SHEET	2

8

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D

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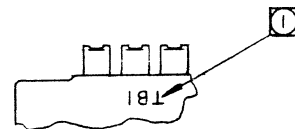
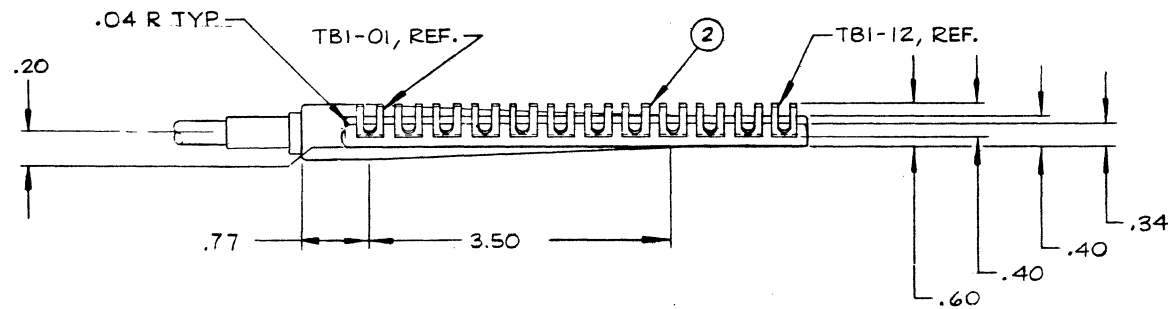
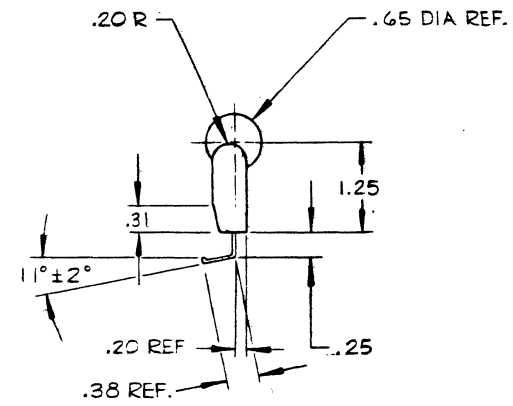
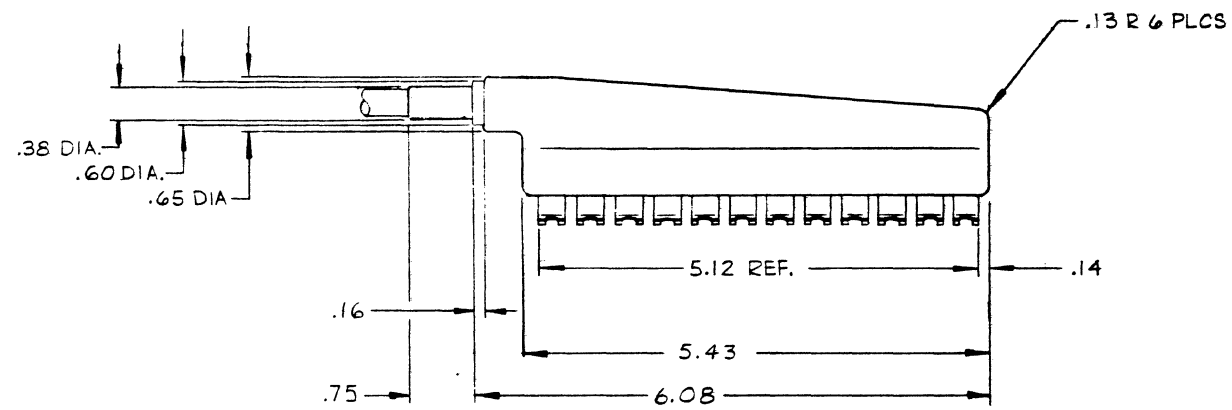
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A

A



DETAIL B  
SCALE: 1/1

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	D	211634	09
DO NOT SCALE DWG		SHEET	3

WIRE/COMP NO.	FROM		TO		WIRE ITEM NO.	SIGNAL	COLOR	REMARKS
	REF. DES.	TERM ITEM/TYPE	REF. DES.	TERM ITEM/TYPE				
1	TB1-01	△	P120-B27	S6TS	6	LGND	BLACK	
2	TB1-01		P120-A30	S6TS	6		BLACK	
3	P120-B27	S	P120-B28	S	11			
4	P120-B28	↑	P120-B29	↑				
5	P120-B29		P120-B30					
6	P120-B30		P120-A31					
7	P120-A31		P120-A30					
8	P120-A30		P120-A29					
9	P120-A29	↓	P120-A28	↓				
10	P120-A28	S	P120-A27	S	11			
11								
12	TB1-02	△	P120-A31	S6TS	6		BLACK	
13	TB1-02		P120-B10	S6TS	6		BLACK	
14	P120-B10	S	P120-B11	S	11			
15	P120-B11	↑	P120-B12	↑				
16	P120-B12		P120-A12					
17	P120-A12		P120-A11					
18	P120-A11		P120-A10					
19	P120-A10	↓	P120-A09	↓				
20	P120-A09	S	P120-A08	S	11	LGND		

T=TIN WIRE    S = SOLDER    S6TS = STRIP WIRE .375, TIN, SOLDER  
S6 = STRIP WIRE .375  
△ = STRIP WIRE .375, TIN, CRIMP AND SOLDER

DWG NO 211634    REV 09  
SHEET 4 OF 7

WIRE/COMP NO.	FROM		TO		WIRE ITEM NO.	SIGNAL	COLOR	REMARKS
	REF. DES.	TERM ITEM/TYPE	REF. DES.	TERM ITEM/TYPE				
41	P120-A39	S	P120-A40	S	11	+5V		
42	P120-A40	S	P120-B39	S	11			
43	TB1-06		P120-A36	S6TS	6		BLACK	
44	TB1-06		P120-B35	↑				
45	TB1-07	△	P120-B32	↓				
46	TB1-07		P120-A33		6	+5V		
47	TB1-08		P120-B40		8	@S+5V		
48	TB1-09		P120-B25	↓	8	-12V		
49	TB1-10		P120-B14	S6TS	7	+12V	BLACK	
50	P120-B14	S	P120-B15	S	11			
51	P120-B15	↑	P120-B16	↑				
52	P120-B16		P120-B17					
53	P120-B17		P120-A17					
54	P120-A17		P120-A16					
55	P120-A16	↓	P120-A15	↓				
56	P120-A15	S	P120-A14	S	11			
57	TB1-11	△	P120-A17	S6TS	7	+12V	BLACK	
58	TB1-12		P120-A25	↑	7	-5V		
59	P4-01	4	P120-B07	↓	8	ITEMP		
60	P4-02	4	P120-B04	S6TS	8	IIND1	BLACK	

T=TIN WIRE    S = SOLDER    S6TS = STRIP WIRE .375, TIN, SOLDER  
S6 = STRIP WIRE .375  
△ = STRIP WIRE .375, TIN, CRIMP AND SOLDER

DWG NO 211634    REV 09  
SHEET 6

WIRE/COMP NO.	FROM		TO		WIRE ITEM NO.	SIGNAL	COLOR	REMARKS
	REF. DES.	TERM ITEM/TYPE	REF. DES.	TERM ITEM/TYPE				
21	TB1-03	△	P120-A08	S6TS	6	LGND	BLACK	
22	TB1-03		P120-A12	S6TS	6	LGND	BLACK	
23	TB1-04		P120-B08	S6TS	8	@SGND	BLACK	
24	P120-B08	S	P120-B09	S	11	@SGND		
25	TB1-05	△	P120-B39	S6TS	6	+5V	BLACK	
26	TB1-05		P120-A40	S6TS	6		BLACK	
27	P120-B39	S	P120-B38	S	11			
28	P120-B38	↑	P120-B37	↑				
29	P120-B37		P120-B36					
30	P120-B36		P120-B35					
31	P120-B35		P120-B34					
32	P120-B34		P120-B33					
33	P120-B33		P120-B32					
34	P120-B32		P120-A33					
35	P120-A33		P120-A34					
36	P120-A34		P120-A35					
37	P120-A35		P120-A36					
38	P120-A36		P120-A37					
39	P120-A37	↓	P120-A38	↓				
40	P120-A38	S	P120-A39	S	11	+5V		

T=TIN WIRE    S = SOLDER    S6TS = STRIP WIRE .375, TIN, SOLDER  
S6 = STRIP WIRE .375  
△ = STRIP WIRE .375, TIN, CRIMP AND SOLDER

DWG NO 211634    REV 09  
SHEET 5

WIRE/COMP NO.	FROM		TO		WIRE ITEM NO.	SIGNAL	COLOR	REMARKS
	REF. DES.	TERM ITEM/TYPE	REF. DES.	TERM ITEM/TYPE				
61	P4-03	5	P120-B06	S6TS	8	IIMPRT	BLACK	
62	P4-04	4	P120-B03	↑		IIND5		
63	P4-05	↑	P120-B02	↑		@PSW0		
64	P4-06		J130-01			PXX		
65	P4-07		P120-B01			@PSW1		
66	P4-08	↓	P120-B05	↓		+APWR		
67	P4-09	4	P120-A24	S6TS	8	CB11	BLACK	
68	P120-B27	S	P120-B24	S	11	CB12		
69	P120-A10	S6TS	J130-02	S6TS	8	LGND	BLACK	

T=TIN WIRE    S = SOLDER    S6TS = STRIP WIRE .375, TIN, SOLDER  
S6 = STRIP WIRE .375

DWG NO 211634    REV 09  
SHEET 7



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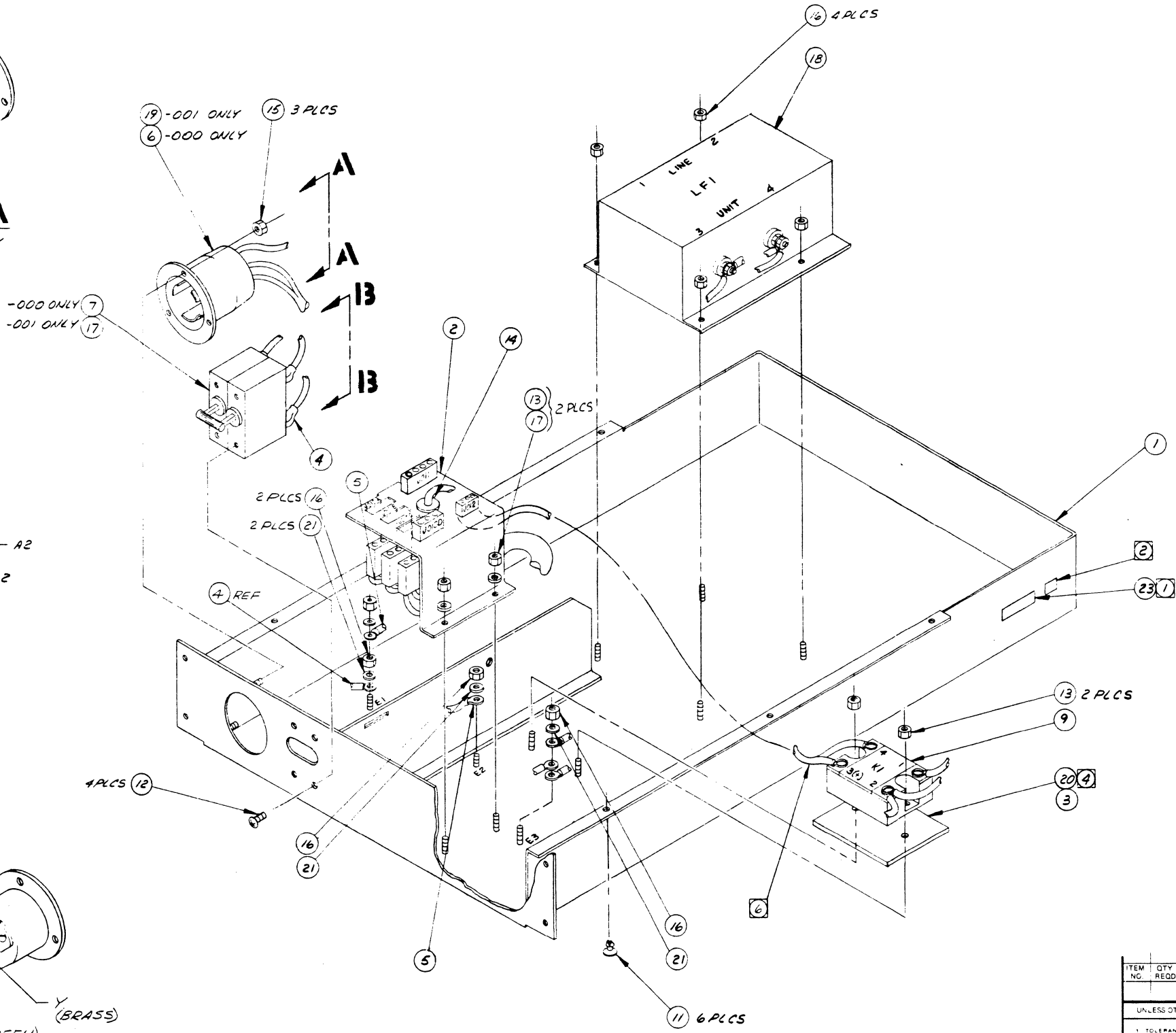
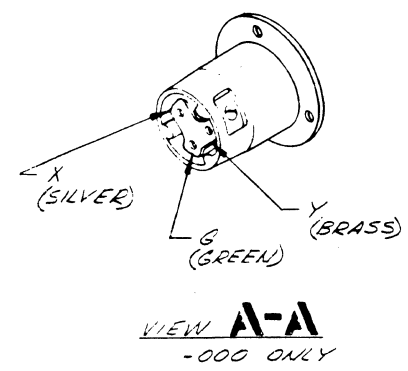
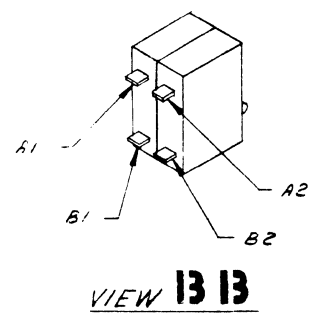
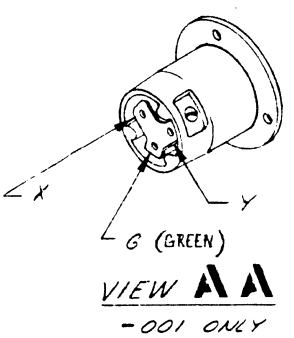
REVISIONS				
SYM	DESCRIPTION	DRFTG	APPROVED	DATE
01	RELEASE PER DRO	9/22/79	EE	9/22/79
02	UPDATE PER EUS IMP. IT	NS	REC EB	9/23/79
03	CODE 06 REL WITH CHANGES ADDED PICTORIAL RELEASE PER DRO	2/4/79	EE	2/6/79
04	INCORP DCO 09325	BM	EEB	4/1/79
05	INCORP DCO 09974	2	EB	12/14/79
06	CODE 10 REL W/D CHANGE PER DCO 10499	1/4	EEB	4/5/80
07	INCORP DCO 10255	F.C.	EB	7/1/80

- NOTE: UNLESS OTHERWISE SPECIFIED
1. APPLY RIVETS SIN APPROX WHERE SHOWN PER SPEC 100034 (RUBBER STAMP).
  2. MARK APPROPRIATE REV NO. APPROX WHERE SHOWN PER SPEC 100034 (RUBBER STAMP).
  3. REFERENCE SCHEMATIC DIAGRAM 12118B.
  4. APPLY THERMAL COMPOUND (ITEM 20) TO THE CSK SIDE OF HEATSINK (ITEM 3) AND INSTALL WITH CSK DOWN TOWARDS PIS CHASSIS. APPLY THERMAL COMPOUND (ITEM 20) TO BOTTOM OF RELAY (ITEM 9).
  5. ASSEMBLE PER ELECTROMECHANICAL WORKMANSHIP ASSY STANDARD 170475.
  6. WIRES NOT TO BE ROUTED WITH CABLE (DC MUST BE SEPERATE FROM AC).

TABULATION

DASH NO.	VOLTAGE
000	115 VAC
001	230 VAC

ITEM NO.	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION
MATERIAL LIST			
UNLESS OTHERWISE SPECIFIED		DRAWN	F. CLARK 3/8/79
1. TOLERANCES		CHECK	A. MORTON 3/21/79
11 ±.030 ANGULAR		APPR	R. S. HUNTER 9/10/79
11 ±.010		RELEASE	G. EDINK 7/2/79
2 REMOVE ALL BURRS		TITLE	
3 BREAK ALL SHARP EDGES		A/C CONTROL ASSY	
4 MACH SURFACES 125 / GP		CODE IDENT NO	
5 INTERPRET DWG PER MIL-D-1000		SIZE	
6 DIM ARE IN INCHES		DWG NO	
		REV	
		D	
		211635	
		07	
		SCALE 1/2" = 1"	
		DO NOT SCALE DWG	
		SHEET 1 OF 3	



NEXT ASSY	QTY	MODEL	QTY

APPLICATION

**MATERIAL LIST**

Item No.	Quantity Required				Part No.	Nomenclature or Description	Reference Designation
				-001 -000			
1				1 1	230704-000	CHASSIS, A/C CONTROL	
2				1 1	242063-000	BRACKET, CONNECTOR MOUNTING	
3				1 1	241957-000	HEATSINK, RELAY	
4				1 1	211822-000	HARNESS, A/C POWER	A4-W1
5				1 1	211820-000	HARNESS A/C DISTRIBUTION	A4-W2
6				0 1	320219-000	CONNECTOR, 125V BHD	A4-J001
7				0 1	530117-001	CIRCUIT, PROTECTOR	A4-CB1
8							
9				1 1	460026-000	RELAY, SOLID STATE	K1
10							
11				6 6	370558-000	BUMPER, NYLON	
12				4 4	370036-602	SCREW, PAN HEAD LOCKING	
13				4 4	370681-000	NUT, HEX SMALL PATTERN LOCKING	
14				1 1	420185-250	GROMMET, NEOPRENE	
15				3 3	370027-600	NUT, HEX LOCKING	
16				8 8	370027-700	NUT, HEX LOCKING	

790406-03

**MATERIAL LIST**

Item No.	Quantity Required				Part No.	Nomenclature or Description	Reference Designation
				-001 -000			
17				1 0	530117-002	CIRCUIT, PROTECTOR	A4-CB1
18				1 1	530075-000	FILTER, EMI	LF1
19				1 0	320161-000	CONNECTOR 230V BHD	A4-J001
20				AR AR	700043-000	COMPOUND, THERMAL	
21				3 3	370002-700	WASHER, FLAT	
22				2 2	370002-600	WASHER, FLAT	
23				1 1	290231-000	LABEL, IDENTIFICATION	

790406-03

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REVISIONS				
SYM	DESCRIPTION	DRFTG	APPROVED	DATE
01	RELEASE PER DCO 930-79		EE	3/12/79
02	CODE 06 REL WITH CHANGES ADDED PICTORIALS. RELEASE PER DCO 231-79	EM	MS	3/26/79
03	INCORP DCO 09974	AD	EB	4/11/79
04	CODE 10 REL W/O CHANGE PER DCO 10499	11	EB	4/17/79

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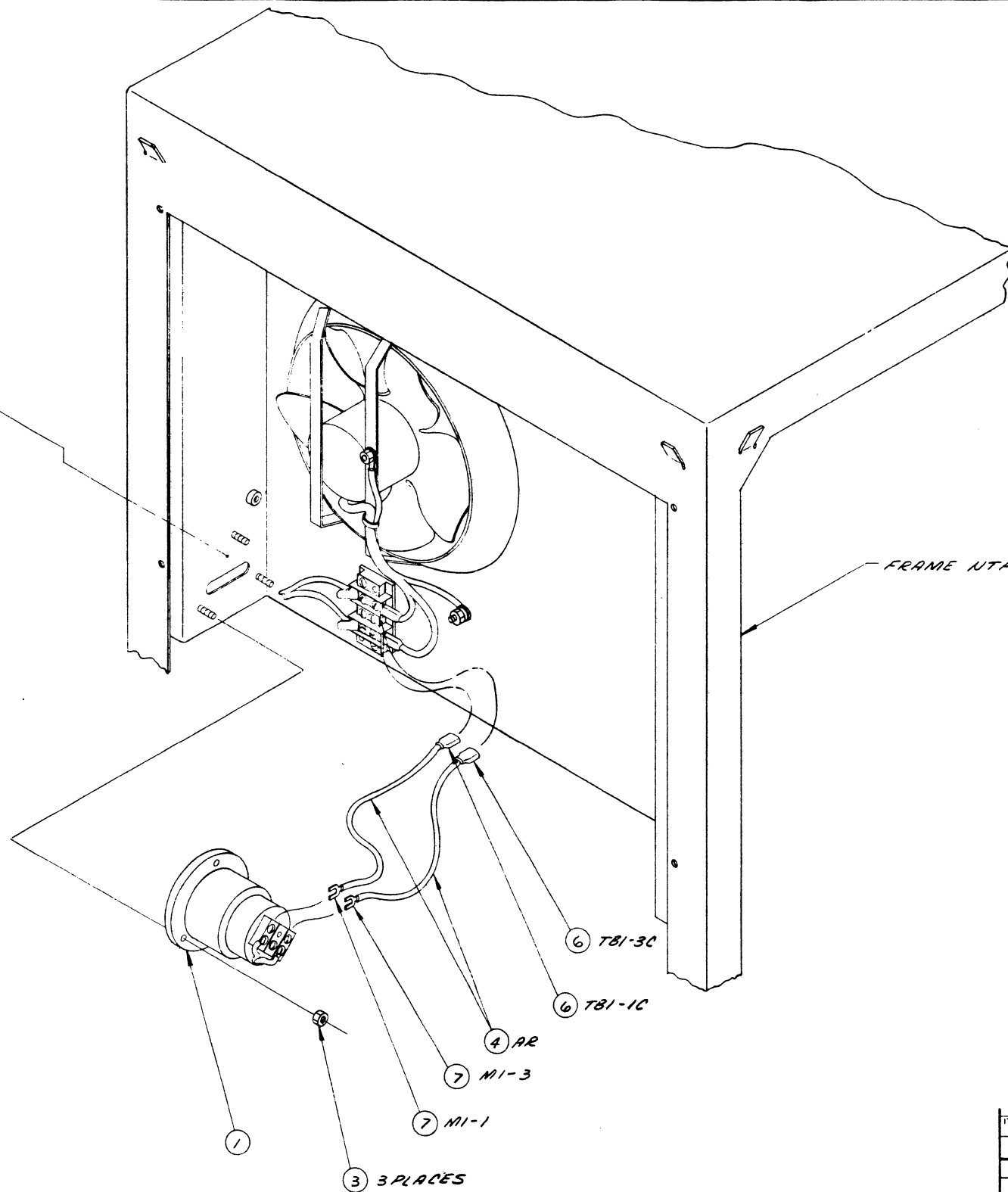
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NOTE: UNLESS OTHERWISE SPECIFIED

FRAME NTP REF



ITEM NO.	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION
MATERIAL LIST			
UNLESS OTHERWISE SPECIFIED		DRAWN	J. NORTON 3/12/79
1 TOLERANCES XX ±.030 ANGULAR XXX ±.010 .030		CHECK	J. NORTON 3/12/79
2 REMOVE ALL BURRS		APPR	R. SCHUMAKER 3/12/79
3 BREAK ALL SHARP EDGES D10 APPROX		RELEASE	EB 3/12/79
4 MACH SURFACES 125 OR BETTER		THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR DISCLOSED TO OTHERS OR USED FOR MANUFACTURING OR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN PERMISSION OF PERTEC BUSINESS SYSTEMS	
5 INTERPRET DWG PER MIL-D-1000		MATERIAL	
6 DIM ARE IN INCHES		FINISH	
		CODE IDENT NO	SIZE DWG NO
		D.C. CODE	REV
		D	211637 04
		SCALE 1/2	DO NOT SCALE DWG SHEET 1 OF 3

NEXT ASSY	QTY	MODEL	QTY
		NTP	
APPLICATION			

Item No.	Quantity Required						Part No.	Nomenclature or Description	Reference Designation
						-000			
1						1	390000-001	METER, AC RUNNING TIME	M1
2						1	290313-000	LABEL, RUN TIME METER	
3						3	370681-000	NUT, SELF-LOCKING, SMALL PATT.	
4						AR	510140-013	WIRE, STRANDED, INSULATED	
5									
6						2	320039-118	TERMINAL, PUSH ON	
7						2	320007-618	TERMINAL, FLANGED SPADE	

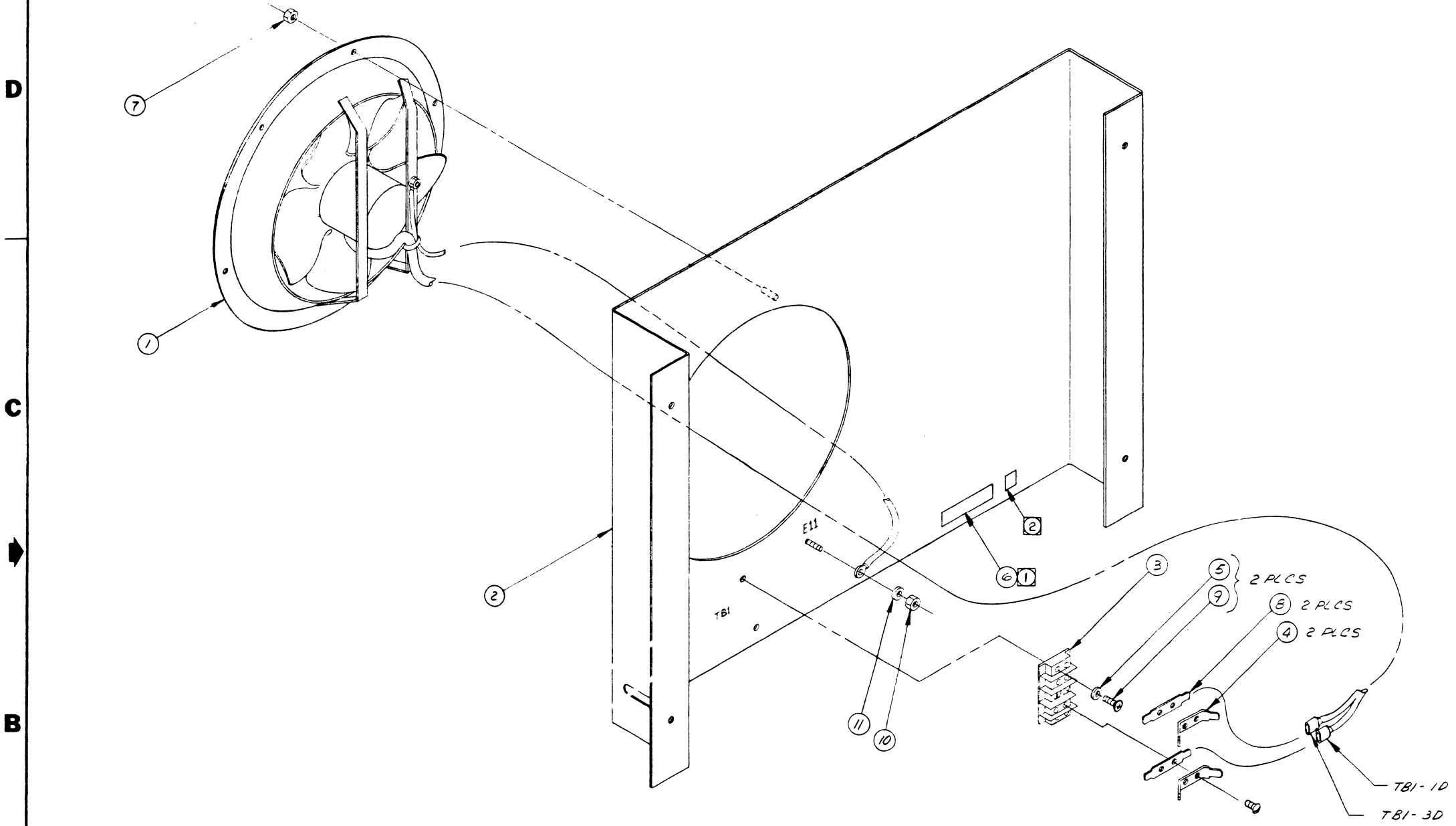
790406-03

WIRE/ COMP NO.	FROM		TO		WIRE ITEM NO.	SIGNAL	COLOR	REMARKS
	REF. DES.	TERM ITEM/TYPE	REF. DES.	TERM ITEM/TYPE				
1	TB1-1C	6	M1-1*	7	4	ACNRT	WHITE	
2	TB1-3C	6	M1-3**	7	4	ACLRT	WHITE	
<p>T=TIN WIRE S6=STRIP WIRE .375 *White wire on M1 terminal block **Black wire on M1 terminal block</p>							<p>DWG NO 211637</p> <p>SHEET 3 OF 3</p>	<p>REV 04</p>

790247-02

8 7 6 5 4 3 2 1

REVISIONS				
SYM	DESCRIPTION	DRFTG	APPROVED	DATE
01	RELEASE PER DRO 82-72		EB	3/6/79
02	REVISED PER EDGE INPUT	MS	REC EB	3/23/79
03	CODE 00 REL WITH CHANGES REVISED PER ENG INPUT RELEASE PER DRO 231-79	BN	EB	7/26/79
04	INCORP DCO 03995	ST	AP EB	7/30/79
05	INCORP DCO 10277	FC	TR EB	8/1/79
06	CODE 10 REL W/6 CHANGE PER DCU 10499	SM	WT EB	8/2/79



**NOTE: UNLESS OTHERWISE SPECIFIED**  
 ① APPLY PH-5/11 IDENTIFICATION LABEL (ITEM 6) APPROX WHERE SHOWN  
 ② MARK APPROPRIATE KEY NO. APPROX. WHERE SHOWN PER SPEC 100034 (RUBBER STAMP).

ITEM NO.	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION
MATERIAL LIST			
UNLESS OTHERWISE SPECIFIED		DRAWN	W. HIGDON 7/1/79
1. TOLERANCES XX .030 ANGLAP XXX .020 OF3D		CHECK	W. HIGDON 7/1/79
2. REMOVE ALL BURRS		APPR	E. S. WILCOX 7/1/79
3. BREAK ALL SHARP EDGES D'GARRELY		RELEASE	B. E. WILCOX 7/1/79
4. MACH SURFACES .125/OF BETTER		THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR TRANSMITTED TO OTHERS WITHOUT THE WRITTEN PERMISSION OF PERTEC BUSINESS SYSTEMS	
5. "TEMPER" DIMS PER M.L.D. 1000		TITLE	
6. DIMS ARE IN INCHES		FAN ASSY	
MATERIAL		CODE IDENT NO	SIZE
SEE SHT 2		D	211638
FINISH		REV	06
APPLICATION		SCALE	DO NOT SCALE DWG
		SHEET 1 OF 2	

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PERTEC  
COMPUTER  
CORPORATION

# MATERIAL LIST

Sheet 2 of 2

ML  
Dwg. No.

211638

Rev.

06

Item No.	Quantity Required					Part No.	Nomenclature or Description	Reference Designation
					-000			
1					1	211776-000	FAN, 8 INCH	
2					1	230697	MTG BRKT, FAN	
3					1	320209-002	TERMINAL STRIP	
4					2	320212-001	TERMINAL BLADE	
5					2	370250-632	WASHER, FLAT SMALL O.D.	
6					1	290231	IDENTIFICATION LABEL	
7					5	370027-600	NUT, LOCKING	
8					2	320212-003	TERMINAL BLADE	
9					2	370036-610	SCREW PAN HD, REC LOCKING	
10					1	370027-700	NUT SELF-LOCKING	
11					1	370002-700	WASHER FLAT	

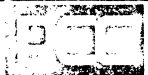
THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR TRANSFERRED TO OTHER DOCUMENTS OR DISCLOSED TO OTHERS OR USED FOR MANUFACTURING OR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN PERMISSION OF PERTEC COMPUTER CORPORATION.		REVISIONS			
		REV	DESCRIPTION	DRFTG	APPVD
APPLICATION		06	CODE 10 REL W/O CHANGES PER DCO 10499	LM	EB 4/9/79
NEXT ASSY	MODEL				
	NTP				

TABULATION

DASH NO.	DESCRIPTION
-001	1 DISK ONLY
-002	1 DISK 1 MINI
-003	1 DISK 2 MINI'S
-004	1 DISK 1 MAXI
-005	2 DISKS ONLY
-006	2 DISKS 1 MINI
-007	2 DISKS 2 MINI'S
-008	2 DISKS 1 MAXI

1. REFER TO OPTIONAL COLOR KIT INSTALLATION DRAWING 190301.

NOTE: UNLESS OTHERWISE SPECIFIED.

DRAWN	NORTON/ms	3/8/79	 <b>PERTEC COMPUTER CORPORATION</b> <small>DATA SYSTEMS OPERATIONS DIVISION</small>	
CHECK	J. NORTON	3/12/79		
APPR	R. SCHUMAKER	3/12/79		
RELEASE	G. BRINK	3/12/79		
UNLESS OTHERWISE SPECIFIED 1 TOLERANCES .xx     ±.03    ANGULAR .xxx    ±.010   ±0°30' 2 REMOVE ALL BURRS 3 BREAK ALL SHARP EDGES .010 APPROX 4 MACH SURFACES 125 ✓ OR BETTER 5 INTERPRET DWG PER ANS Y14 6 DIM ARE IN INCHES			TITLE  <p style="text-align: center;">OPTIONAL PANEL KIT (UNIVAC)</p>	
CODE IDENT. NO.		SIZE	DWG NO.	REV.
DC CODE 10		A	211644	06
SCALE		DO NOT SCALE DWG		SHEET 1 OF 5

Item No.	Quantity Required						Part No.	Nomenclature or Description	Reference Designation
	-006	-005	-004	-003	-002	-001			
1	1	1	1	1	1	1	211631-000	SYSTEM CONTROL PANEL ASSY	
2	1	2	0	0	1	2	230381-201	PANEL, FRONT (MINI)	
3	0	0	1	1	1	1	230696-001	PANEL, FRONT (R/D)	
4	1	1	0	1	1	1	230695-001	PANEL, FRONT	
5	2	2	2	2	2	2	230690-001	PANEL, SIDE	
6	1	1	1	1	1	1	230699-001	PANEL, REAR	
7	1	1	1	1	1	1	230702-000	TOP COVER	
8	2	2	1	1	1	1	210977-002	BEZEL ASSY (R/D)	
9	1	0	0	2	1	0	290332-000	OVERLAY, CONTROL PANEL (MINI)	
10	0	0	1	0	0	0	290331-000	OVERLAY, CONTROL PANEL (MAXI)	
11	0	0	1	0	0	0	290339-000	OVERLAY, MAXI	
12	2	2	1	1	1	1	290330-000	OVERLAY, CONTROL PANEL (R/D)	
13	28	28	28	28	28	28	241643-000	CLIP, SPRING	
14	1	1	1	1	1	1	290069-000	LABEL, ASSY NO.	
15									
16	12	12	6	6	6	6	690000-154	SCREW 10-32X 5/8 FH HEX DRIVE	(PED P/N 615-0086)
17	8	8	8	8	8	8	370651-009	SCREW, LOCKING 8-32 X 3/8	
18	11	14	8	12	15	18	370651-000	SCREW, LOCKING 6-32 X 3/8	
19	11	14	8	12	15	18	370002-600	WASHER, FLAT	
20	2	2	2	2	2	2	370651-003	SCREW LOCKING 10-32 X 3/8	

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Item No.	Quantity Required						Part No.	Nomenclature or Description	Reference Designation
	-006	-005	-004	-003	-002	-001			
21	1	1	1	1	1	1	290341-000	LABEL, I/O CONNECTOR IDENT	
22	1	1	1	1	1	1	290341-001	LABEL, I/O CONNECTOR IDENT	

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Item No.	Quantity Required		Part No.	Nomenclature or Description	Reference Designation	
	-008	-007				
1		1	1	211631-000	SYSTEM CONTROL PANEL ASSY	
2		0	0	230381-201	PANEL, FRONT (MINI)	
3		0	0	230696-001	PANEL, FRONT (R/D)	
4		0	1	230695-001	PANEL, FRONT	
5		2	2	230690-001	PANEL, SIDE	
6		1	1	230699-001	PANEL, REAR	
7		1	1	230702-000	TOP COVER	
8		2	2	210977-002	BEZEL ASSY (R/D)	
9		0	2	290332-000	OVERLAY, CONTROL PANEL (MINI)	
10		1	0	290331-000	OVERLAY, CONTROL PANEL (MAXI)	
11		1	0	290339-000	OVERLAY, MAXI	
12		2	2	290330-000	OVERLAY, CONTROL PANEL (R/D)	
13		28	28	241643-000	CLIP, SPRING	
14		1	1	290069-000	LABEL, ASSY NO.	
15						
16		12	12	690000-154	SCREW 10-32 X 5/8 FH HEX DRIVE	(PED P/N 615-0086)
17		8	8	370651-009	SCREW, LOCKING 8-32 X 3/8	
18		4	8	370651-000	SCREW, LOCKING 6-32 X 3/8	
19		4	8	370002-600	WASHER, FLAT	
20		2	2	370651-003	SCREW, LOCKING 10-32 X 3/8	

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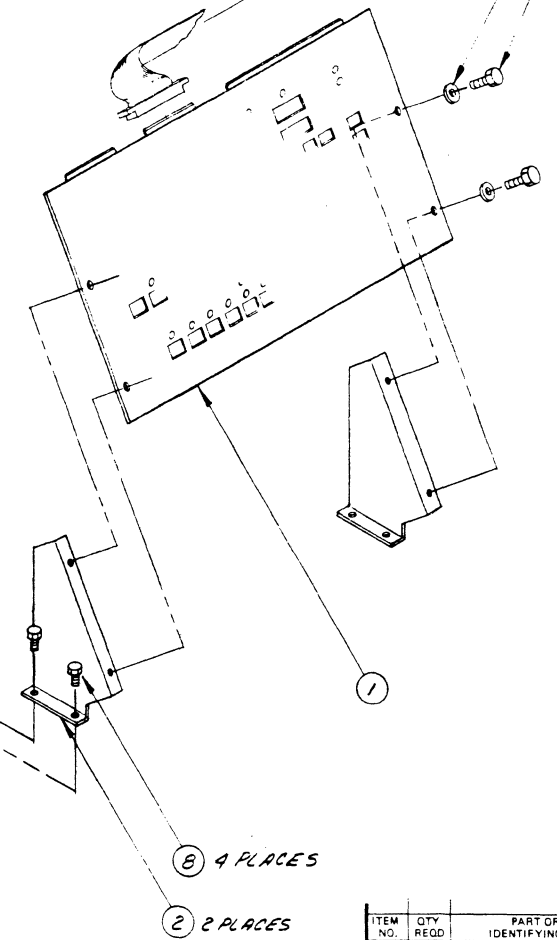
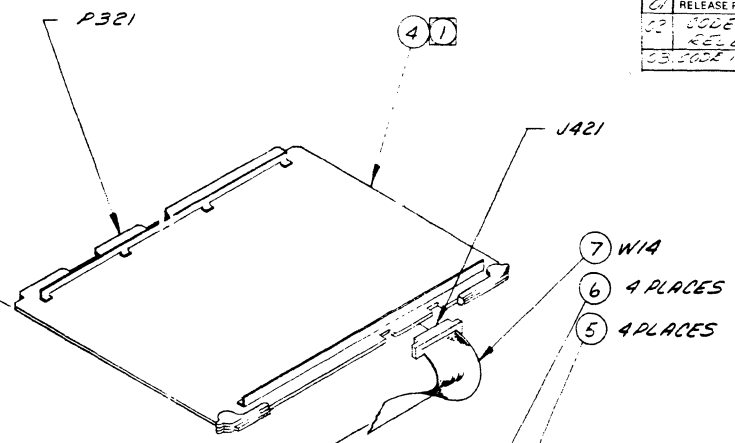
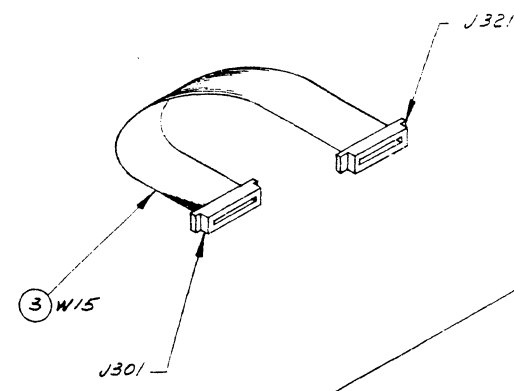
Item No.	Quantity Required		Part No.	Nomenclature or Description	Reference Designation	
	-008	-007				
21		1	1	290341-000	LABEL, I/O CONNECTOR IDENT	
22		1	1	290341-001	LABEL, I/O CONNECTOR IDENT	

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8 7 6 5 4 3 2 1

REVISIONS				
SYN	DESCRIPTION	DRFTG	APPROVED	DATE
01	RELEASE PER DRD		EB	11/77
02	CODE 06 REL N10 CHANGES		EB	9/11/82
03	RELEASE PER DRD 09480		EB	9/11/82
04	CODE 10 REL N10 CHANGE PER DRD 10441		EB	4/980



NOTE: UNLESS OTHERWISE SPECIFIED  
 (1) TEST SET CONTROLLER PCB (ITEM 4) IS TO BE INSTALLED IN THE FIRST AVAILABLE SLOT FROM THE TOP OF THE CAB. CASE.  
 2. REF CABLE DIAGRAM 121184.

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ITEM NO.	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION
MATERIAL LIST			
UNLESS OTHERWISE SPECIFIED		DRAWN	DATE
1 TOLERANCES	ALL DIMS ANGULAR	EB	7-11-77
2 REMOVE ALL BURRS	ALL DIMS 0°30'	APPR	7-11-77
3 BREAK ALL SHARP EDGES	DIS APPROX	RELEASE	8/1/79
4 MACH SURFACES 12° OR BETTER			
5 INTERPRET DRG PER M.I.D. 1000			
6 DIM ARE IN INCHES			
MATERIAL			CODE IDENT NO
NEXT ASSY	QTY	MODEL	QTY
APPLICATION			FINISH
SCALE 1/4"		DO NOT SCALE DWG	SHEET 1 OF 2

**BUSINESS SYSTEMS**  
 TITLE  
**DIAGNOSTIC TEST SET**

SIZE DWG NO  
**D 211645 03**



**MATERIAL LIST**

Sheet 2 of 2

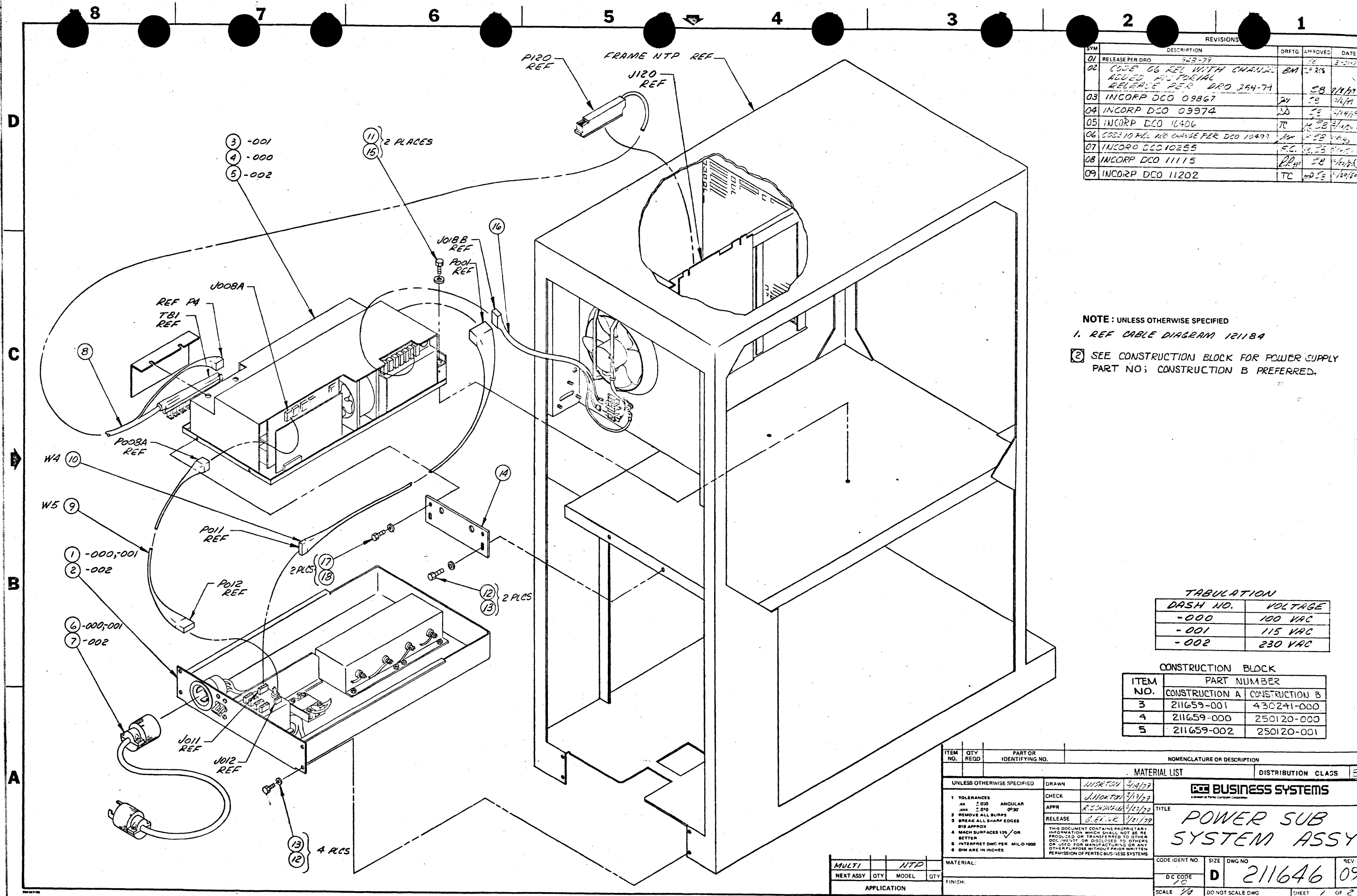
ML  
Dwg. No.

211645

Rev.

03

Item No.	Quantity Required						Part No.	Nomenclature or Description	Reference Designation
						-000			
1						1	211664-000	TEST PANEL ASSY	
2						2	230694-000	TEST PANEL MTG BRACKET	
3						1	211304-000	CABLE, TEST SET #2	W15
4						1	261163-000	PCBA, TEST SET CONTROLLER	
5						4	370651-000	SCREW, HEX HD LOCKING	
6						4	370002-600	WASHER, FLAT	
7						1	211713-000	CABLE, TEST SET TO CONTROL	W14
8						4	370651-003	SCREW, HEX HD LOCKING	



REVISIONS				
SYM	DESCRIPTION	DRFTG	APPROVED	DATE
01	RELEASE PER DRO 748-77			3-27-77
02	CODE 06 REL WITH CHANGE ADDED MATERIAL RELEASE PER DRO 254-74	BM	RS	
03	INCO RP DCO 09867	24	SB	3/1/77
04	INCO RP DCO 09974	20	SB	3/14/77
05	INCO RP DCO 10406	7C	SB	3/16/77
06	CODE 10 REL NO CHANGE PER DCO 10497	10	SB	3/23/77
07	INCO RP DCO 10255	P.C.	SB	3/23/77
08	INCO RP DCO 11115	P.P.	SB	3/23/77
09	INCO RP DCO 11202	TC	SB	3/23/77

**NOTE: UNLESS OTHERWISE SPECIFIED**

1. REF CABLE DIAGRAM 121184

2. SEE CONSTRUCTION BLOCK FOR POWER SUPPLY PART NO; CONSTRUCTION B PREFERRED.

TABULATION	
DASH NO.	VOLTAGE
-000	100 VAC
-001	115 VAC
-002	230 VAC

CONSTRUCTION BLOCK		
ITEM NO.	PART NUMBER	
	CONSTRUCTION A	CONSTRUCTION B
3	211659-001	430241-000
4	211659-000	250120-000
5	211659-002	250120-001

ITEM NO.	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	DISTRIBUTION CLASS
MATERIAL LIST				
UNLESS OTHERWISE SPECIFIED				
DRAWN: J. HORTON 3/17/77				
CHECK: J. HORTON 3/17/77				
APPR: R. SCHWAB 3/17/77				
RELEASE: B. ELLER 3/21/77				
1 TOLERANCES .XX ±.000 ANGULAR .XX ±.010 0°30' 2 REMOVE ALL BURRS 3 BREAK ALL SHARP EDGES 4 MACH SURFACES 125 / OR BETTER 5 INTERPRET DWG PER MIL-D-1000 6 DIM ARE IN INCHES				
THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR TRANSFERRED TO OTHERS OR USED FOR MANUFACTURING OR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN PERMISSION OF PERTEC BUSINESS SYSTEMS				
MATERIAL:		CODE IDENT NO.	SIZE	DWG NO.
FINISH:		DC CODE	D	211646
APPLICATION		SCALE	1/4	DO NOT SCALE DWG
MULTI		REV	09	SHEET 1 OF 2

REVISIONS				
SYM	DESCRIPTION	DRFTG	APPROVED	DATE
01	RELEASE PER DRO 948-79		EE	3-21-77
02	CODE 06 REL WITH CHANGES ADDED PICTORIAL RELEASE PER DRO 254-79	BA	TRRS	
03	INCOMP DCO 09867	27	SE	2/6/79
04	INCOMP DCO 09974	28	SE	2/14/79
05	INCOMP DCO 10406	TR	SE	3/1/80
06	CODE 10 REL W/O CHANGE PER DCO 10499	TR	SE	4/8/80
07	INCOMP DCO 10255	F.C.	SE	1/16/80
08	INCOMP DCO 11115	DR	SE	2/6/80
09	INCOMP DCO 11202	TC	SE	1/20/80
10	INCOMP DCO 11531	GB	TR SE	3/12/81

NOTE: UNLESS OTHERWISE SPECIFIED  
 1. REF CABLE DIAGRAM 121184  
 2. SEE CONSTRUCTION BLOCK FOR POWER SUPPLY  
 PART NO: CONSTRUCTION B PREFERRED.

TABULATION	
DASH NO.	VOLTAGE
-000	100 VAC
-001	115 VAC
-002	230 VAC

CONSTRUCTION BLOCK		
ITEM NO.	PART NUMBER	
	CONSTRUCTION A	CONSTRUCTION B
3	211659-000	430241-000
4	211659-001	250120-000
5	211659-002	250120-000

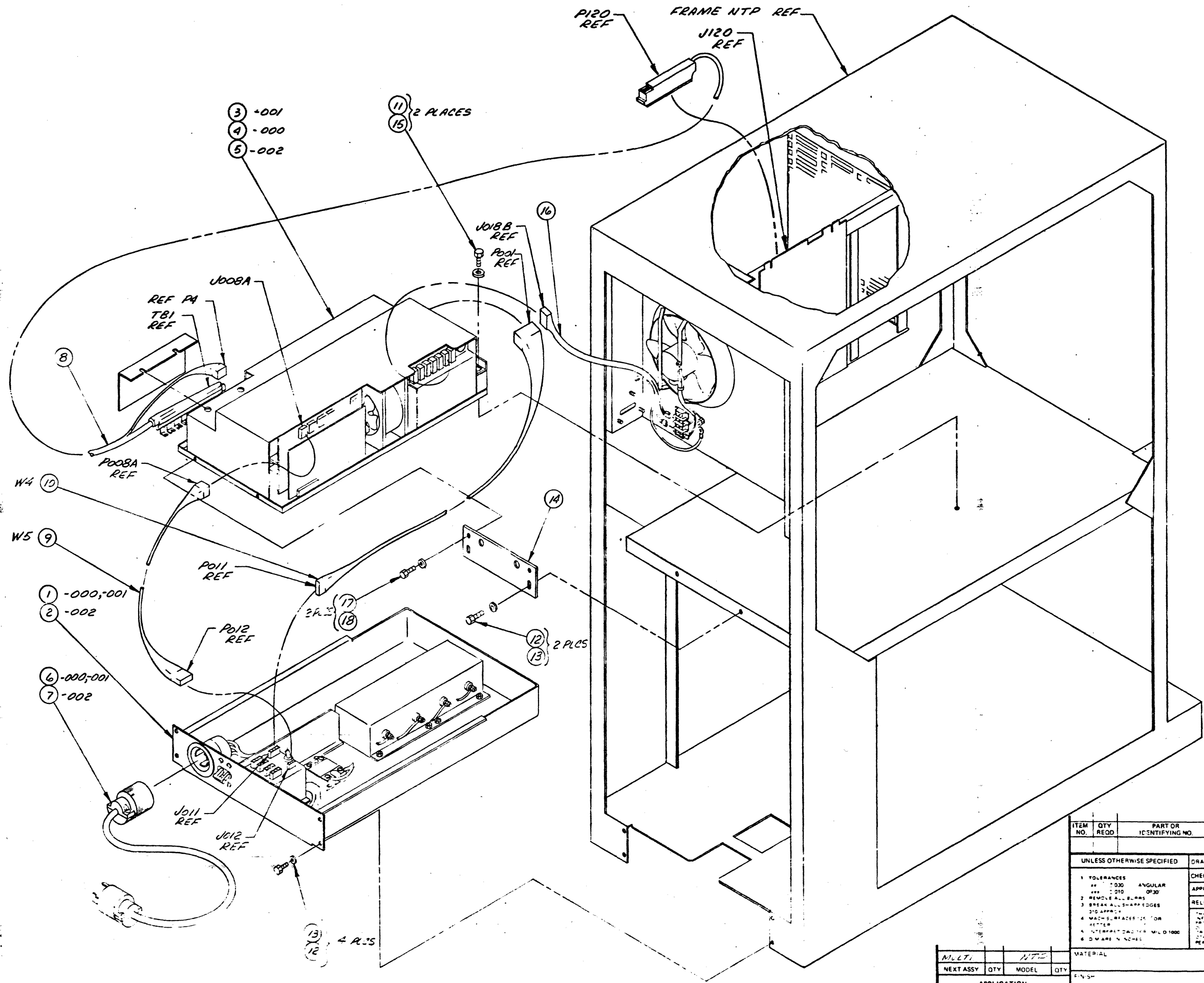
ITEM NO.	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	DISTRIBUTION CLASS
UNLESS OTHERWISE SPECIFIED				
DRAWN		MATERIAL LIST		
CHECK		RELEASE		
APPR		DATE		
RELEASE		DATE		
<small>1 TOLERANCES            .030 ANGULAR            .010            2 REMOVE ALL BURRS            3 BREAK ALL SHARP EDGES            4 MATCH SURFACES TO FORM            5 REFER TO DRAWING FOR DIMENSIONS            6 DIMENSIONS IN INCHES</small>				
<small>THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PRIOR WRITTEN PERMISSION OF PERTEC BUSINESS SYSTEMS</small>				
MATERIAL		CODE IDENT NO: <b>D</b> SIZE: <b>211640</b> DWG NO: <b>10</b> REV:		
APPLICATION		DC CODE: <b>D</b> SCALE: <b>1/4</b> DO NOT SCALE DRAWING SHEET: <b>1</b> OF <b>1</b>		

D

C




B

A








MATERIAL LIST

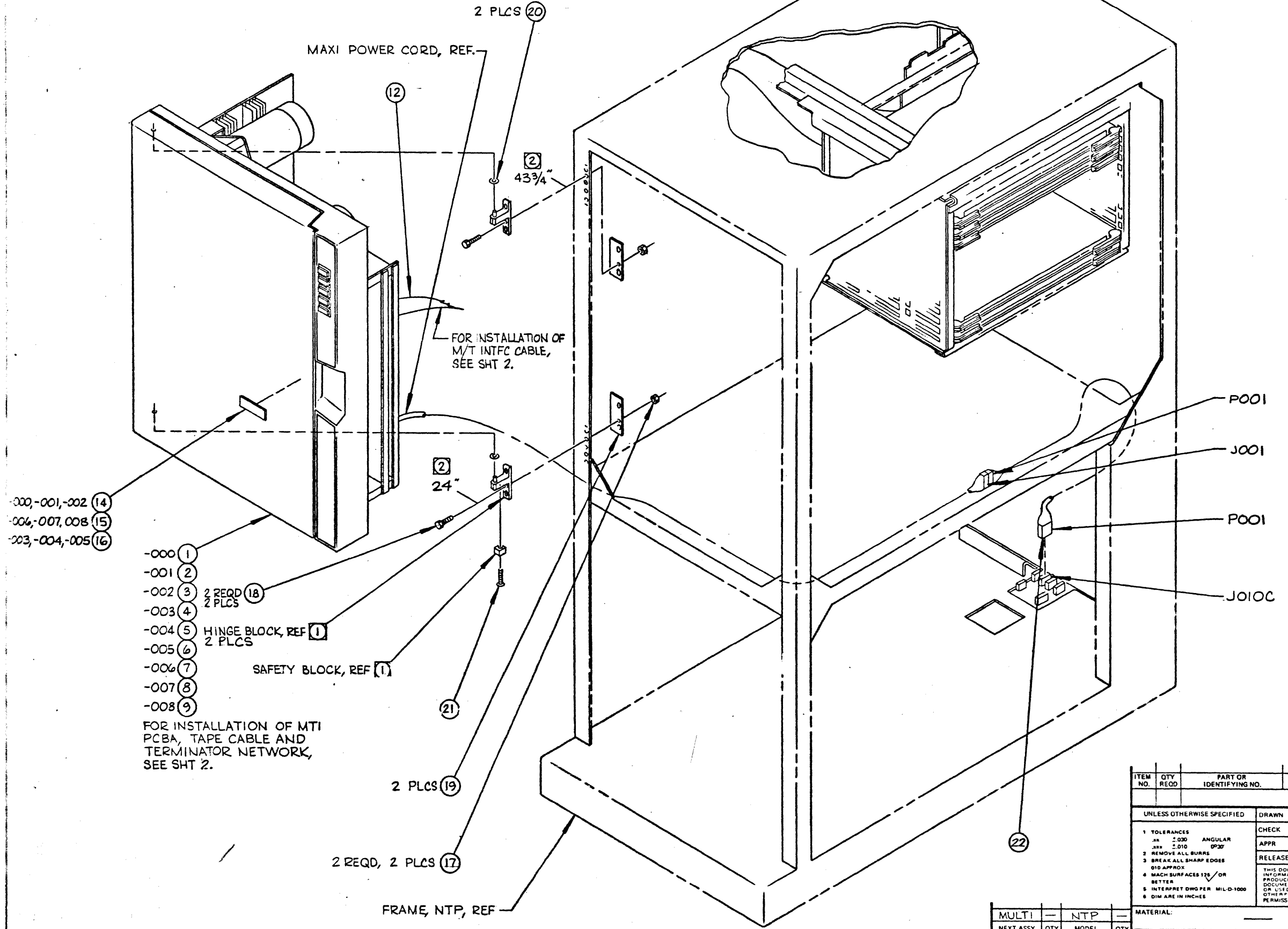
Item No.	Quantity Required			Part No.	Nomenclature or Description	Reference Designation
	-002	-001	-000			
1	0	1	1	211635-000	AC CONTROL ASSY	
2	1	0	0	211635-001	AC CONTROL ASSY	
3	0	1	0		POWER SUB-SYSTEM	
4	0	0	1		POWER SUB-SYSTEM	
5	1	0	0		POWER SUB-SYSTEM	
6	0	1	1	211752-000	POWER CORD	W1
7	1	0	0	211751-000	POWER CORD	W1
8	1	1	1	211634 -000	CABLE ASSY, DC POWER DIST.	
9	1	1	1	211754-000	CABLE ASSY, AC CONTROL	W5
10	1	1	1	211821-000	CABLE, AC CONTROL TO P/S	W4
11	2	2	2	370651-003	SCREW, HEX HD LOCKING 10-32 X 3/8	
12	6	6	6	370651-000	SCREW, HEX HD LOCKING 10-32 X 3/8	
13	6	6	6	370002-600	WASHER, FLAT	
14	1	1	1	242076 -000	BRKT, P/S MOUNTING	
15	2	2	2	370002-700	WASHER, FLAT	
16	1	1	1	211756-000	CABLE, FAN	W7
17	2	2	2	370651-019	SCREW, HEX HD LOCKING 8-32 X 1/4	
18	2	2	2	370002-800	WASHER, FLAT	



MATERIAL LIST

Item No.	Quantity Required			Part No.	Nomenclature or Description	Reference Designation	
		-002	-001				-000
1		0	1	1	211635-000	AC CONTROL ASSY	
2		1	0	0	211635-001	AC CONTROL ASSY	
3		0	1	0		POWER SUB-SYSTEM	
4		0	0	1		POWER SUB-SYSTEM	
5		1	0	0		POWER SUB-SYSTEM	
6		0	1	1	211752-000	POWER CORD	W1
7		1	0	0	211751-000	POWER CORD	W1
8		1	1	1	211634 -000	CABLE ASSY, DC POWER DIST.	
9		1	1	1	211754-000	CABLE ASSY, AC CONTROL	W5
10		1	1	1	211821-000	CABLE, AC CONTROL TO P/S	W4
11		2	2	2	370651-003	SCREW, HEX HD LOCKING 10-32 X 3/8	
12		6	6	6	370651-000	SCREW, HEX HD LOCKING 10-32 X 3/8	
13		6	6	6	370002-600	WASHER, FLAT	
14		1	1	1	242076 -000	BRKT, P/S MOUNTING	
15		2	2	2	370002-700	WASHER, FLAT	
16		1	1	1	211756-000	CABLE, FAN	W7
17		2	2	2	370651-019	SCREW, HEX HD LOCKING 8-32 X 1/4	
18		2	2	2	370002-800	WASHER, FLAT	

SYM	DESCRIPTION	DRFTG	APPROVED	DATE
01	RELEASE PER DRO 984-79		E. B.	4/6/79
02	CODE 06 RELEASE WITH CHANGES. ADDED PICTORIAL. RELEASE PER DRO 203-79	Bbs	RS	7/26/79
03	INCOMP DCO 09465	LWP	SB	9/11/80
04	INCOMP DCO 09974	LD	SB	12/4/80
05	CODE 10 REL W/O CHANGE PER DCO 10499	JM	SB	11/12/80
06	INCOMP DCO 10798	EM	SB	8/27/80
07	INCOMP DCO 11607	GB	WP SB	1/28/81



**NOTE: UNLESS OTHERWISE SPECIFIED**

① PARTS SUPPLIED WITH MAXI XPRT.

② MOUNTING HOLE LOCATIONS ARE MEASURED UPWARDS FROM THE BOTTOM HOLE TO THE NEAREST 1/16\".

3. REFERENCE CABLE DIAGRAM, CCU, 121184.

④ -666 IS TO BE USED BY MANUFACTURING FOR COLLECTING LABOR COSTS FOR INSTALLING A CUSTOMER OWNED PERIPHERAL.

- 000, -001, -002 (14)
  - 006, -007, -008 (15)
  - 003, -004, -005 (16)
  - 000 (1)
  - 001 (2)
  - 002 (3) 2 REQD (18)
  - 003 (4) 2 PLCS
  - 004 (5) HINGE BLOCK, REF (1)
  - 005 (6) 2 PLCS
  - 006 (7) SAFETY BLOCK, REF (1)
  - 007 (8)
  - 008 (9)
- FOR INSTALLATION OF MTI PCBA, TAPE CABLE AND TERMINATOR NETWORK, SEE SHT 2.

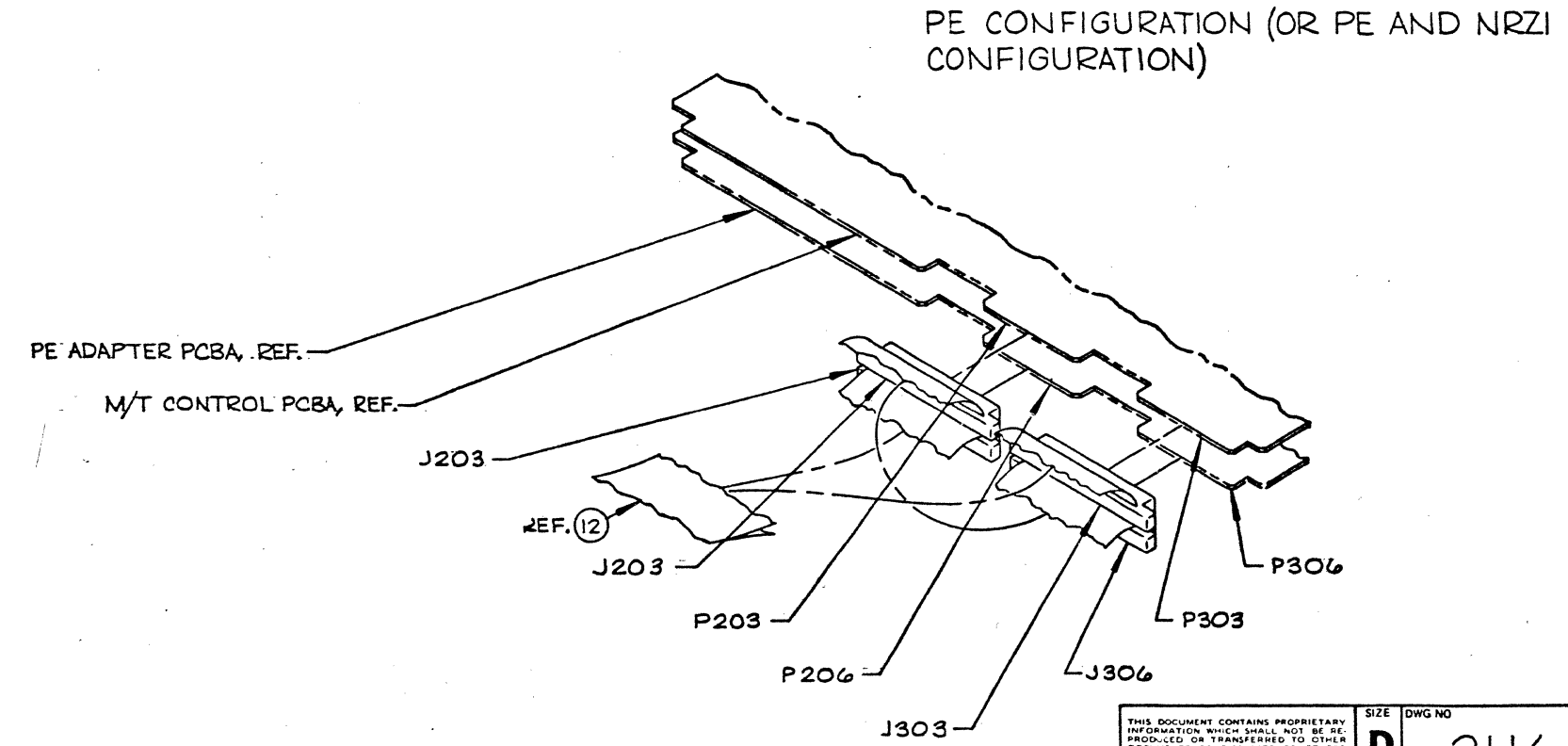
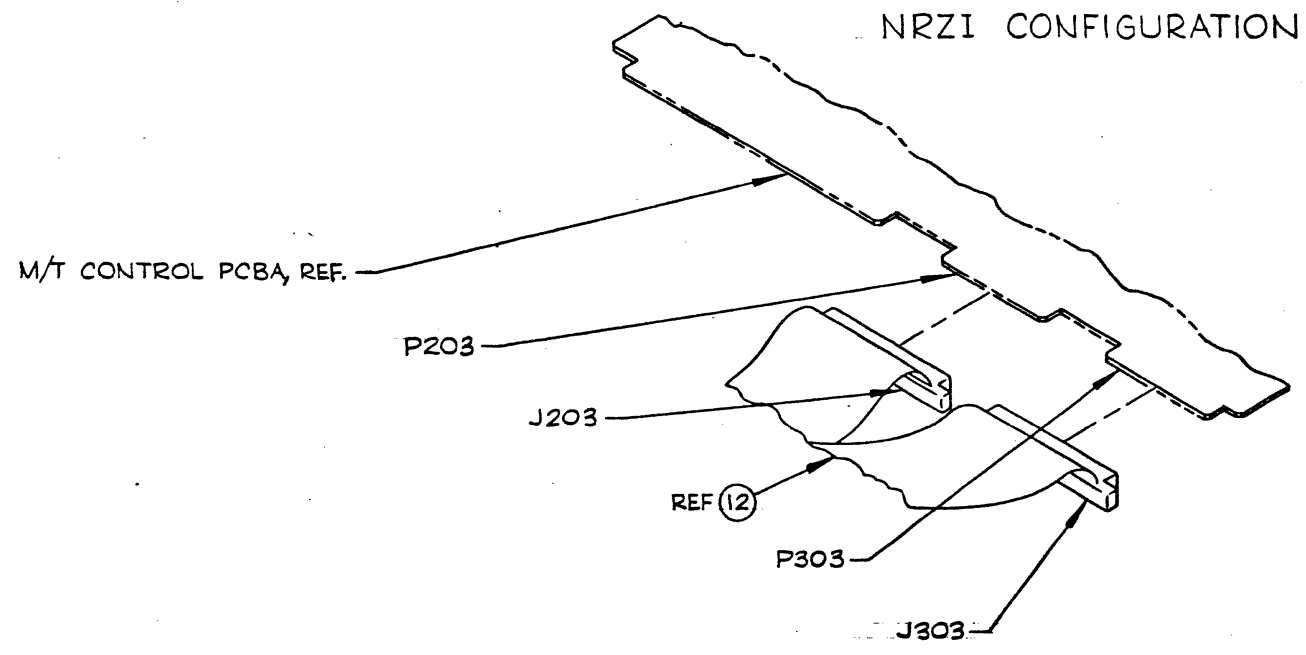
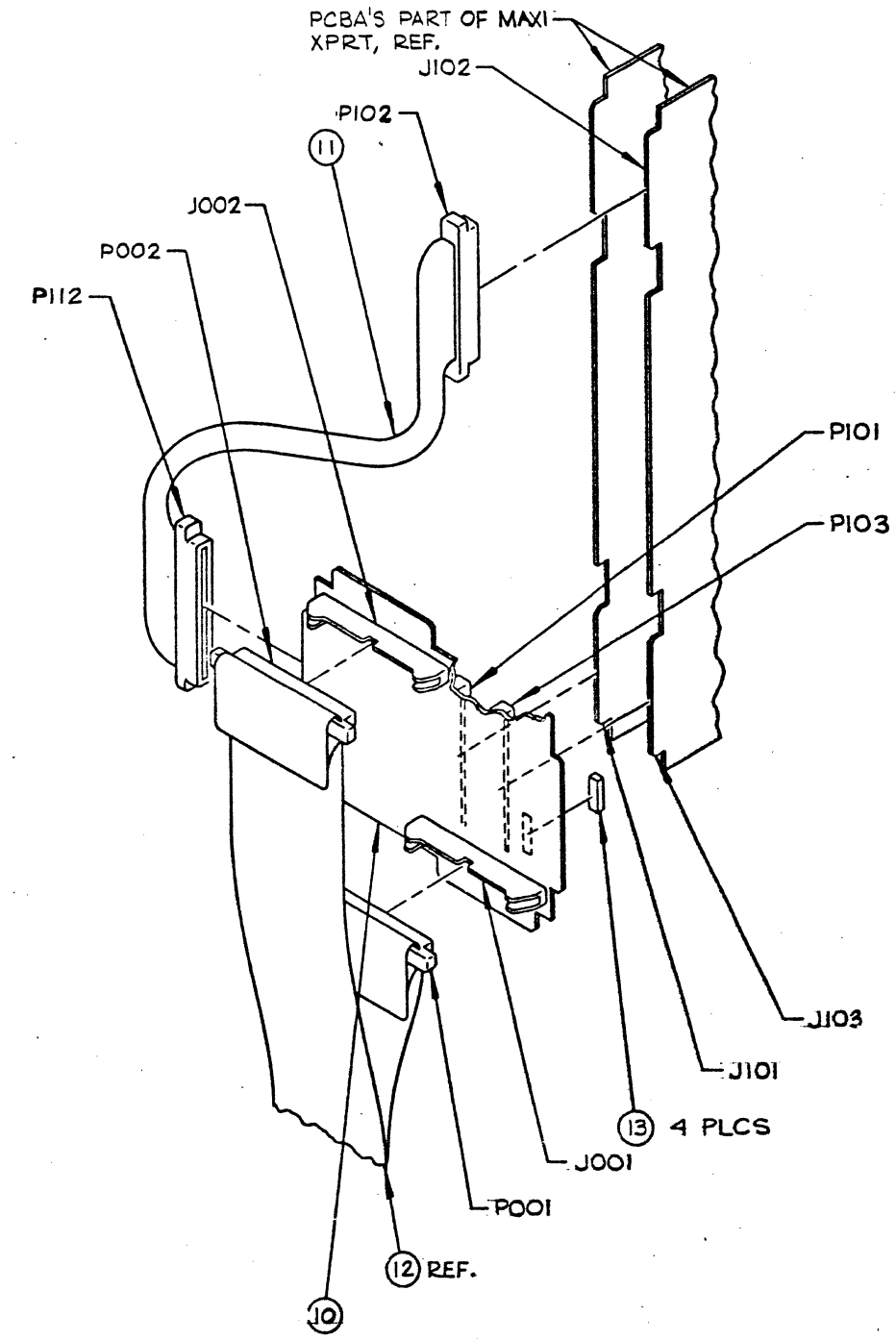
TABULATION	
DASH	DESCRIPTION
-000	9 TRK NRZI 100V
-001	9 TRK NRZI 115V
-002	9 TRK NRZI 230V
-003	7 TRK NRZI 100V
-004	7 TRK NRZI 115V
-005	7 TRK NRZI 230V
-006	9 TRK PE 100V
-007	9 TRK PE 115V
-008	9 TRK PE 230V
-666	(4)

ITEM NO.	QTY	RECD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	DISTRIBUTION CLASS			
MATERIAL LIST								
UNLESS OTHERWISE SPECIFIED				DRAWN	NORTON/MS 5/22/79			
1 TOLERANCES				CHECK	J.A. NORTON 3/29/79			
.XX .030 ANGULAR				APPR	R. SCHUMAKER 4/5/79			
.XX .010				RELEASE	G. BRINK 4/6/79			
2 REMOVE ALL BURRS				THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR TRANSFERRED TO OTHER DOCUMENTS OR DISCLOSED TO OTHERS OR USED FOR MANUFACTURING OR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN PERMISSION OF PERTEC BUSINESS SYSTEMS				
3 BREAK ALL SHARP EDGES								
4 MACH SURFACES 125/ OR BETTER								
5 INTERPRET DWG PER MIL-D-1000								
6 DIM ARE IN INCHES								
BUSINESS SYSTEMS A Member of Perdec Corporation								
TITLE MAXI TAPE TRANSPORT OPTION KIT				CODE IDENT NO.	SIZE	DWG NO	REV	
MATERIAL:				DC CODE	D	211647	07	
FINISH:				SCALE	1/4" = 1"	DO NOT SCALE DWG	SHEET	OF 6

MULTI	---	NTP	---
NEXT ASSY	QTY	MODEL	QTY
APPLICATION			

MTI PCBA, TAPE CABLE AND TERMINATOR NETWORK INSTALLATION

M/T INTERFACE CABLE INSTALLATION  
 NOTE: CARD CAGE AND FRAME NOT SHOWN, DELETED FOR CLARITY.



<small>THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR TRANSFERRED TO OTHER DOCUMENTS OR DISCLOSED TO OTHERS OR USED FOR MANUFACTURING OR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN PERMISSION OF PERTEC COMPUTER CORPORATION.</small>	SIZE	DWG NO	REV
	D	211647	07
DO NOT SCALE DWG		SHEET	2



Item No.	Quantity Required						Part No.	Nomenclature or Description	Reference Designation
	-005	-004	-003	-002	-001	-000			
1	0	0	0	0	0	1	250114-000	MODIFICATION, MAXI TAPE XPRT	
2	0	0	0	0	1	0	250114-001	MODIFICATION, MAXI TAPE XPRT	
3	0	0	0	1	0	0	250114-002	MODIFICATION, MAXI TAPE XPRT	
4	0	0	1	0	0	0	250114-003	MODIFICATION, MAXI TAPE XPRT	
5	0	1	0	0	0	0	250114-004	MODIFICATION, MAXI TAPE XPRT	
6	1	0	0	0	0	0	250114-005	MODIFICATION, MAXI TAPE XPRT	
7	0	0	0	0	0	0	250114-006	MODIFICATION, MAXI TAPE XPRT	
8	0	0	0	0	0	0	250114-007	MODIFICATION, MAXI TAPE XPRT	
9	0	0	0	0	0	0	250114-008	MODIFICATION, MAXI TAPE XPRT	
10	1	1	1	1	1	1	261070	PCBA, MTI	
11	1	1	1	1	1	1	211352	CABLE, TAPE	W17
12	1	1	1	1	1	1	211973	CABLE, M/T INTFC	W11
13	4	4	4	4	4	4	470099-001	NETWORK, TERMINATOR	Z2,3,5,6
14	0	0	0	1	1	1	290173-001	LABEL TRANSPORT	
15	0	0	0	0	0	0	290173-002	LABEL TRANSPORT	
16	1	1	1	0	0	0	290173-005	LABEL TRANSPORT	
17	4	4	4	4	4	4	370027-700	NUT LOCKING #10	
18	4	4	4	4	4	4	370651-005	SCREW HEX HD 10-32 X 5/8	
19	2	2	2	2	2	2	242066-000	BACKING PLATE	

PH14C 03

Item No.	Quantity Required						Part No.	Nomenclature or Description	Reference Designation
	-005	-004	-003	-002	-001	-000			
20	2	2	2	2	2	2	370521-006	WASHER, FLAT	
21	1	1	1	1	1	1	370004-409	SCREW, FLAT HD, 100 DEG PHILLIPS	
22	1	1	1	1	1	1	211749-000	CABLE, EXTENSION	(W28)

PH14C 03

Item No.	Quantity Required						Part No.	Nomenclature or Description	Reference Designation
	-008	-007	-006	-005	-004	-003			
1				0	0	0	250114-000	MODIFICATION, MAXI TAPE XPRT	
2				0	0	0	250114-001	MODIFICATION, MAXI TAPE XPRT	
3				0	0	0	250114-002	MODIFICATION, MAXI TAPE XPRT	
4				0	0	0	250114-003	MODIFICATION, MAXI TAPE XPRT	
5				0	0	0	250114-004	MODIFICATION, MAXI TAPE XPRT	
6				0	0	0	250114-005	MODIFICATION, MAXI TAPE XPRT	
7				0	0	1	250114-006	MODIFICATION, MAXI TAPE XPRT	
8				0	1	0	250114-007	MODIFICATION, MAXI TAPE XPRT	
9				1	0	0	240114-008	MODIFICATION, MAXI TAPE XPRT	
10				1	1	1	261070	PCBA, MTI	
11				1	1	1	211352	CABLE, TAPE	W17
12				1	1	1	211973	CABLE, M/T INTFC	W11
13				4	4	4	470099-001	NETWORK, TERMINATOR	Z2,3,5,6
14				0	0	0	290173-001	LABEL TRANSPORT	
15				1	1	1	290173-002	LABEL TRANSPORT	
16				0	0	0	290173-005	LABEL TRANSPORT	
17				4	4	4	370027-700	NUT LOCKING #10	
18				4	4	4	370651-005	SCREW HEX HD 10-32 X 5/8	
19				2	2	2	242066-000	BACKING PLATE	

Item No.	Quantity Required						Part No.	Nomenclature or Description	Reference Designation
	-008	-007	-006	-005	-004	-003			
20				2	2	2	370521-006	WASHER, FLAT	
21				1	1	1	370004-409	SCREW, FLAT HD, 100 DEG PHILLIPS	
22				1	1	1	211749-000	CABLE, EXTENSION	(W28)

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REVISIONS

REV	DESCRIPTION	DRFTG	APPVD	DATE
07	INCorp DCO 10798	BM/LM	<i>[Signature]</i>	5/1/80

APPLICATION	
NEXT ASSY	MODEL
	NTP

TABULATION	
DASH NO.	DESCRIPTION
-000	100V 60HZ
-001	100V 50HZ
-002	115V 60HZ
-003	115V 50HZ
-004	230V 60HZ
-005	230V 50HZ
-666	3

- 3 -666 IS TO BE USED BY MANUFACTURING FOR COLLECTING LABOR COSTS FOR INSTALLING A CUSTOMER OWNED PERIPHERAL.
- 2. REFER TO RIGID DISK OPTION INSTALLATION DRAWING 190327 IN TAPE/DISK CABINET.
- 1. REFER TO RIGID DISK OPTION INSTALLATION DRAWING 190309 IN BCS CABINET.

NOTE: UNLESS OTHERWISE SPECIFIED.

DRAWN	Norton/ms	3/27/79
CHECK	Norton	3/30/79
APPR	Schumaker	4/5/79
RELEASE	G. Brink	4/6/79

**PERTEC COMPUTER CORPORATION**  
DATA SYSTEMS OPERATIONS DIVISION

TITLE  
**RIGID DISK OPTION KIT #2 (D3422)**

- UNLESS OTHERWISE SPECIFIED
- 1 TOLERANCES  
.xx ±.03 ANGULAR  
.xxx ±.010 ±0°30'
  - 2 REMOVE ALL BURRS
  - 3 BREAK ALL SHARP EDGES .010 APPROX
  - 4 MACH SURFACES 125 ✓ OR BETTER
  - 5 INTERPRET DWG PER ANS Y14
  - 6 DIM ARE IN INCHES

CODE IDENT. NO.	SIZE	DWG NO.	REV.
DC CODE 10	<b>A</b>	211648	<b>07</b>
SCALE	DO NOT SCALE DWG		SHEET 1 OF 3

Item No.	Quantity Required						Part No.	Nomenclature or Description	Reference Designation
	-005	-004	-003	-002	-001	-000			
1	0	0	0	0	0	1	250115-001	MODIFICATION D3422 DISK DRIVE	
2	0	0	0	0	1	0	250115-002	MODIFICATION D3422 DISK DRIVE	
3	0	0	0	1	0	0	250115-003	MODIFICATION D3422 DISK DRIVE	
4	0	0	1	0	0	0	250115-004	MODIFICATION D3422 DISK DRIVE	
5	0	1	0	0	0	0	250115-005	MODIFICATION D3422 DISK DRIVE	
6	1	0	0	0	0	0	250115-006	MODIFICATION D3422 DISK DRIVE	
7	1	1	1	1	1	1	261124	PCBA, RDI	
8	4	4	4	4	4	4	241683	BRACKET, SLIDE MTG	
9	1	1	1	1	1	1	540031-001	CABLE RETRACTOR	
10	1	1	1	1	1	1	540026-002	SLIDE	
11	1	1	1	1	1	1	242002	BRACKET, CABLE RETRACTOR	
12									
13	1	1	1	1	1	1	211712-000	CABLE R/D INTERCONNECT	W26
14	9	9	9	9	9	9	370002-700	WASHER, FLAT # 10	
15	10	10	10	10	10	10	370045-705	SCREW, SOCKET HD CAP	
16	16	16	16	16	16	16	370536-005	SCREW, SLOTTED 8-32 X 1/2	
17	16	16	16	16	16	16	370027-800	NUT, LOCKING 8-32	
18	10	10	10	10	10	10	370536-003	SCREW, SLOTTED 8-32 X 5/16	

790406-03

Item No.	Quantity Required						Part No.	Nomenclature or Description	Reference Designation
	-005	-004	-003	-002	-001	-000			
19	10	10	10	10	10	10	370003-700	WASHER, SPLIT LOCK	
20	2	2	2	2	2	2	242064	CONTACT, GROUNDING	
21	AR	AR	AR	AR	AR	AR	700015	LOCTITE 242	
22	1	1	1	1	1	1	370027-700	NUT, LOCKING	
23	4	4	4	4	4	4	370045-714	SCREW, SOCKET HD CAP	
24	6	6	6	6	6	6	370686	CLIP, CABLE	
25	2	2	2	2	2	2	241970	STRAIN RELIEF	
26	2	2	2	2	2	2	370651-001	SCREW, HEX HD, LOCKING	
27	2	2	2	2	2	2	370651-000	SCREW, HEX HD, LOCKING	
28	2	2	2	2	2	2	370521-003	WASHER, FLAT	
29	2	2	2	2	2	2	370488-303	STANDOFF, HEX	
30	4	4	4	4	4	4	370036-708	SCREW, PAN HD REC. 10-32 X 3/8	
31									
32	7	7	7	7	7	7	370717-006	CLAMP-CABLE, PUSH MOUNT	
33	7	7	7	7	7	7	370716-003	SPACER-CABLE	

790406-03

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REVISIONS

REV	DESCRIPTION	DRFTG	APPVD	DATE
01	RELEASE PER DRO 704-79		EB	4/6/79
02	CODE 06 RELEASE WITH CHANGES UPDATED M/L PER ENG INPUT REL PER DRO 703-79	BS	TLR RES EB	8/1/79
03	INCORP DCO 09242	KW	EB	8/27/79
04	CODE 10 REL W/O CHANGES PER DCO 10499	LM	EB	4/15/80
05	INCORP DCO 10433	LM +M	EB	4/15/80
06	INCORP DCO 10453	MV/LM	EB	4/25/80
07	INCORP DCO 10715	JN/LM	EB	5/7/80


APPLICATION	
NEXT ASSY	MODEL
	NTP

TABULATION	
DASH NO.	DESCRIPTION
-000	100V 60HZ
-001	100V 50HZ
-002	115V 60HZ
-003	115V 50HZ
-004	230V 60HZ
-005	230V 50HZ
-666	2

2 -666 IS TO BE USED BY MANUFACTURING FOR COLLECTING LABOR COST FOR INSTALLING A CUSTOMER OWNED PERIPHERAL.

- REFER TO RIGID DISK OPTION INSTALLATION DRAWING 190309.

NOTE: UNLESS OTHERWISE SPECIFIED.

DRAWN	Norton/ms	3/27/79	 <b>PERTEC COMPUTER CORPORATION</b>	
CHECK	<i>[Signature]</i>	3-29-79	DATA SYSTEMS OPERATIONS DIVISION	
APPR	<i>[Signature]</i>	4-5-79	TITLE	
RELEASE	<i>[Signature]</i>	4/6/79	RIGID DISK OPTION KIT # 1 (D3422)	
UNLESS OTHERWISE SPECIFIED			CODE IDENT NO.	REV.
1 TOLERANCES .xx ±.03 ANGULAR .xxx ±.010 ±0°30' 2 REMOVE ALL BURRS 3 BREAK ALL SHARP EDGES .010 APPROX 4 MACH SURFACES 125 ✓ OR BETTER 5 INTERPRET DWG PER ANS Y14 6 DIM ARE IN INCHES			SIZE	211649
			DWG NO.	07
			SCALE	SHEET 1 OF 3
			DO NOT SCALE DWG	

Item No.	Quantity Required						Part No.	Nomenclature or Description	Reference Designation
	-005	-004	-003	-002	-001	-000			
1	0	0	0	0	0	1	250115-001	MODIFICATION D3422 DISK DRIVE	
2	0	0	0	0	1	0	250115-002	MODIFICATION D3422 DISK DRIVE	
3	0	0	0	1	0	0	250115-003	MODIFICATION D3422 DISK DRIVE	
4	0	0	1	0	0	0	250115-004	MODIFICATION D3422 DISK DRIVE	
5	0	1	0	0	0	0	250115-005	MODIFICATION D3422 DISK DRIVE	
6	1	0	0	0	0	0	250115-006	MODIFICATION D3422 DISK DRIVE	
7	1	1	1	1	1	1	261124	PCBA, RDI	
8	4	4	4	4	4	4	241683	BRACKET, SLIDE MTG	
9	1	1	1	1	1	1	540031-001	CABLE RETRACTOR	
10	1	1	1	1	1	1	540026-002	SLIDE	
11	1	1	1	1	1	1	242002	BRACKET, CABLE RETRACTOR	
12	4	4	4	4	4	4	470099-001	TERMINATOR NETWORK	Z1,2,3,4
13	1	1	1	1	1	1	211709-000	HARNESS, DISK INTFC	W8
14	9	9	9	9	9	9	370002-700	WASHER, FLAT #10	
15	10	10	10	10	10	10	370045-705	SCREW, SOCKET HD CAP	
16	16	16	16	16	16	16	370536-005	SCREW, SLOTTED 8-32 X 1/2	
17	16	16	16	16	16	16	370027-800	NUT, LOCKING 8-32	
18	10	10	10	10	10	10	370536-003	SCREW, SLOTTED 8-32 X 5/16	

Item No.	Quantity Required						Part No.	Nomenclature or Description	Reference Designation
	-005	-004	-003	-002	-001	-000			
19	10	10	10	10	10	10	370003-700	WASHER SPLIT LOCK	
20	2	2	2	2	2	2	242064	CONTACT, GROUNDING	
21	AR	AR	AR	AR	AR	AR	700015	LOCTITE 242	
22	1	1	1	1	1	1	370027-700	NUT, LOCKING	
23	4	4	4	4	4	4	370045-714	SCREW, SOCKET HD CAP	
24	6	6	6	6	6	6	370686	CLIP, CABLE	
25	2	2	2	2	2	2	241970	STRAIN RELIEF	
26	2	2	2	2	2	2	370651-001	SCREW, HEX HD, LOCKING	
27	2	2	2	2	2	2	370651-000	SCREW, HEX HD, LOCKING	
28	2	2	2	2	2	2	370521-003	WASHER, FLAT	
29	2	2	2	2	2	2	370488-303	STANDOFF, HEX	
30	4	4	4	4	4	4	370036-708	SCREW, PAN HD REC LOCKING 10 - 32 X 3/8	
31	1	1	1	1	1	1	260955-000	PCBA, R/D CONTROLLER	
32	7	7	7	7	7	7	370717-006	CLAMP-CABLE, PUSH MOUNT	
33	7	7	7	7	7	7	370716-003	SPACER-CABLE	

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REVISIONS

REV	DESCRIPTION	DRFTG	APPVD	DATE
01	RELEASE PER DRO 704-79		EB	4/6/79
02	CODE 06 RELEASE WITH CHANGES. ADDED ITEMS 20 AND 21 AND G/N 1. RELEASE PER DRO 208-79	BS	RES EB	7/26/79
03	INCORP DCO 09975	DD/KW	EB	12/14/79
04	CODE 10 REL W/O CHANGES PER DCO 10499	LM	EB	4/9/80
05	INCORP DCO 10792	JN/LM	TJR EB	6/27/80

APPLICATION

NEXT ASSY	MODEL
	NTP


TABULATION

DASH NO.	DESCRIPTION
-000	9 TRK NRZI 100V
-001	9 TRK NRZI 115V
-002	9 TRK NRZI 230V
-003	7 TRK NRZI 100V
-004	7 TRK NRZI 115V
-005	7 TRK NRZI 230V
-006	9 TRK PE 100V
-007	9 TRK PE 115V
-008	9 TRK PE 230V
-666	2

2 -666 IS TO BE USED BY MANUFACTURING FOR COLLECTING LABOR COSTS FOR INSTALLING A CUSTOMER OWNED PERIPHERAL.

1. REFERENCE MINI TAPE TRANSPORT OPTION INSTALLATION DRAWING 190311.

NOTE: UNLESS OTHERWISE SPECIFIED.

DRAWN	Norton/ms	4/3/79	 <b>PERTEC COMPUTER CORPORATION</b> <small>DATA SYSTEMS OPERATIONS DIVISION</small>
CHECK	<i>[Signature]</i>	4-5-79	
APPR	<i>[Signature]</i>	4-5-79	
RELEASE	<i>[Signature]</i>	4/6/79	
UNLESS OTHERWISE SPECIFIED 1 TOLERANCES .xx   ±.03   ANGULAR .xxx   ±.010   ±0°30' 2 REMOVE ALL BURRS 3 BREAK ALL SHARP EDGES .010 APPROX 4 MACH SURFACES 125 ✓ OR BETTER 5 INTERPRET DWG PER ANS Y14 6 DIM ARE IN INCHES			TITLE <p style="text-align: center;">MINI TAPE TRANSPORT OPTION KIT # 1</p>
CODE IDENT. NO.	SIZE	DWG NO.	REV.
DC CODE 10	A	211650	05
SCALE	DO NOT SCALE DWG		SHEET 1 OF 5



## MATERIAL LIST

Sheet 2 of ML Dwg. No. 211650 Rev. 05

Item No.	Quantity Required						Part No.	Nomenclature or Description	Reference Designation
	-005	-004	-003	-002	-001	-000			
1	0	0	0	0	0	1	250081-000	MODIFICATION, TAPE TRANSPORT	
2	0	0	0	0	1	0	250081-001	MODIFICATION, TAPE TRANSPORT	
3	0	0	0	1	0	0	250081-002	MODIFICATION, TAPE TRANSPORT	
4	0	0	1	0	0	0	250081-003	MODIFICATION, TAPE TRANSPORT	
5	0	1	0	0	0	0	250081-004	MODIFICATION, TAPE TRANSPORT	
6	1	0	0	0	0	0	250081-005	MODIFICATION, TAPE TRANSPORT	
7	0	0	0	0	0	0	250081-006	MODIFICATION, TAPE TRANSPORT	
8	0	0	0	0	0	0	250081-007	MODIFICATION, TAPE TRANSPORT	
9	0	0	0	0	0	0	250081-008	MODIFICATION, TAPE TRANSPORT	
10	1	1	1	1	1	1	211749-002	CABLE, EXTENSION	W28
11	1	1	1	1	1	1	211361-000	CABLE, TAPE	W12
12	1	1	1	1	1	1	261070-000	PCBA, MTI	
13	0	0	0	1	1	1	290173-001	LABEL, TRANSPORT	
14	0	0	0	0	0	0	290173-002	LABEL, TRANSPORT	
15	1	1	1	0	0	0	290173-005	LABEL, TRANSPORT	
16	1	1	1	1	1	1	211708-000	CABLE, M/T INTFC	W11
17	4	4	4	4	4	4	470099-001	TERMINATOR NETWORK	Z2, Z3, Z5, Z6
18	3	3	3	3	3	3	370027-700	NUT, LOCKING #10	
19	3	3	3	3	3	3	370002-700	WASHER, FLAT #10	

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## MATERIAL LIST

Sheet 3 of ML Dwg. No. 211650 Rev. 05

Item No.	Quantity Required						Part No.	Nomenclature or Description	Reference Designation
	-005	-004	-003	-002	-001	-000			
20	2	2	2	2	2	2	370016-100	TIE WRAP	
21	2	2	2	2	2	2	370016-400	TIE WRAP	

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## MATERIAL LIST

Sheet 4 of ML Dwg. No. 211650 Rev. 05

Item No.	Quantity Required						Part No.	Nomenclature or Description	Reference Designation
	-008	-007	-006	-005	-004	-003			
1				0	0	0	250081-000	MODIFICATION, TAPE TRANSPORT	
2				0	0	0	250081-001	MODIFICATION, TAPE TRANSPORT	
3				0	0	0	250081-002	MODIFICATION, TAPE TRANSPORT	
4				0	0	0	250081-003	MODIFICATION, TAPE TRANSPORT	
5				0	0	0	250081-004	MODIFICATION, TAPE TRANSPORT	
6				0	0	0	250081-005	MODIFICATION, TAPE TRANSPORT	
7				0	0	1	250081-006	MODIFICATION, TAPE TRANSPORT	
8				0	1	0	250081-007	MODIFICATION, TAPE TRANSPORT	
9				1	0	0	250081-008	MODIFICATION, TAPE TRANSPORT	
10				1	1	1	211749-002	CABLE, EXTENSION	W28
11				1	1	1	211361-000	CABLE, TAPE	W12
12				1	1	1	261070-000	PCBA, MTI	
13				0	0	0	290173-001	LABEL, TRANSPORT	
14				1	1	1	290173-002	LABEL, TRANSPORT	
15				0	0	0	290173-005	LABEL, TRANSPORT	
16				1	1	1	211708-000	CABLE, M/T INTFC	W11
17				4	4	4	470099-001	TERMINATOR NETWORK	Z2, Z3, Z5, Z6
18				3	3	3	370027-700	NUT, LOCKING #10	
19				3	3	3	370002-700	WASHER, FLAT #10	

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## MATERIAL LIST

Sheet 5 of ML Dwg. No. 211650 Rev. 05

Item No.	Quantity Required						Part No.	Nomenclature or Description	Reference Designation
	-008	-007	-006	-005	-004	-003			
20				2	2	2	370016-100	TIE WRAP	
21				2	2	2	370016-400	TIE WRAP	

790406-03

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REVISIONS

REV	DESCRIPTION	DRFTG	APPVD	DATE
07	INCORP DCO 10798	BM/LM	<i>G. Brink</i>	3/27/79

APPLICATION


NEXT ASSY	MODEL
	NTP

TABULATION

DASH NO.	DESCRIPTION
-000	9 TRK NRZI 100V
-001	9 TRK NRZI 115V
-002	9 TRK NRZI 230V
-003	7 TRK NRZI 100V
-004	7 TRK NRZI 115V
-005	7 TRK NRZI 230V
-006	9 TRK PE 100V
-007	9 TRK PE 115V
-008	9 TRK PE 230V
-666	3

- 3 -666 IS TO BE USED BY MANUFACTURING FOR COLLECTING LABOR COSTS FOR INSTALLING A CUSTOMER OWNED PERIPHERAL.
2. REFERENCE MINI TAPE TRANSPORT OPTION KIT INSTALLATION DRAWING 190325 IN TAPE/DISK CABINET.
  1. REFERENCE MINI TAPE TRANSPORT OPTION KIT INSTALLATION DRAWING 190311 IN BCS CABINET.

NOTE: UNLESS OTHERWISE SPECIFIED.

DRAWN	Norton/ms	4/3/79	 <b>PERTEC COMPUTER CORPORATION</b> <small>DATA SYSTEMS OPERATIONS DIVISION</small>
CHECK	Norton	4/5/79	
APPR	Schumaker	4/5/79	
RELEASE	G. Brink	4/6/79	
<small>UNLESS OTHERWISE SPECIFIED</small> 1 TOLERANCES .xx   ±.03   ANGULAR .xxx   ±.010   ±0°30' 2 REMOVE ALL BURRS 3 BREAK ALL SHARP EDGES .010 APPROX 4 MACH SURFACES 125 ✓ OR BETTER 5 INTERPRET DWG PER ANS Y14 6 DIM ARE IN INCHES			TITLE  <p style="text-align: center;">MINI TAPE TRANSPORT OPTION KIT #2</p>
CODE IDENT. NO.	SIZE	DWG NO.	REV.
DC CODE 10	<b>A</b>	211651	07
SCALE	DO NOT SCALE DWG		SHEET 1 OF 5





MATERIAL LIST

Sheet 2 of ML Dwg. No. 211651 Rev. 07

Item No.	Quantity Required						Part No.	Nomenclature or Description	Reference Designation
	-005	-004	-003	-002	-001	-000			
1	0	0	0	0	0	1	250081-000	MODIFICATION, TAPE TRANSPORT	
2	0	0	0	0	1	0	250081-001	MODIFICATION, TAPE TRANSPORT	
3	0	0	0	1	0	0	250081-002	MODIFICATION, TAPE TRANSPORT	
4	0	0	1	0	0	0	250081-003	MODIFICATION, TAPE TRANSPORT	
5	0	1	0	0	0	0	250081-004	MODIFICATION, TAPE TRANSPORT	
6	1	0	0	0	0	0	250081-005	MODIFICATION, TAPE TRANSPORT	
7	0	0	0	0	0	0	250081-006	MODIFICATION, TAPE TRANSPORT	
8	0	0	0	0	0	0	250081-007	MODIFICATION, TAPE TRANSPORT	
9	0	0	0	0	0	0	250081-008	MODIFICATION, TAPE TRANSPORT	
10	1	1	1	1	1	1	211749-002	CABLE, EXTENSION	W28
11	1	1	1	1	1	1	211361-000	CABLE, TAPE	W12
12	1	1	1	1	1	1	261070-000	PCBA, MTI	
13	0	0	0	1	1	1	290173-001	LABEL, TRANSPORT	
14	0	0	0	0	0	0	290173-002	LABEL, TRANSPORT	
15	1	1	1	0	0	0	290173-005	LABEL, TRANSPORT	
16									
17									
18	3	3	3	3	3	3	370027-700	NUT, LOCKING #10	
19	3	3	3	3	3	3	370002-700	WASHER, FLAT	

790406 03



MATERIAL LIST

Sheet 8 of ML Dwg. No. 211651 Rev. 07

Item No.	Quantity Required						Part No.	Nomenclature or Description	Reference Designation
	-005	-004	-003	-002	-001	-000			
20	2	2	2	2	2	2	370016-100	TIE WRAP	

790406 03



MATERIAL LIST

Sheet 4 of ML Dwg. No. 211651 Rev. 07

Item No.	Quantity Required						Part No.	Nomenclature or Description	Reference Designation
	-008	-007	-006						
1				0	0	0	250081-000	MODIFICATION, TAPE TRANSPORT	
2				0	0	0	250081-001	MODIFICATION, TAPE TRANSPORT	
3				0	0	0	250081-002	MODIFICATION, TAPE TRANSPORT	
4				0	0	0	250081-003	MODIFICATION, TAPE TRANSPORT	
5				0	0	0	250081-004	MODIFICATION, TAPE TRANSPORT	
6				0	0	0	250081-005	MODIFICATION, TAPE TRANSPORT	
7				0	0	1	250081-006	MODIFICATION, TAPE TRANSPORT	
8				0	1	0	250081-007	MODIFICATION, TAPE TRANSPORT	
9				1	0	0	250081-008	MODIFICATION, TAPE TRANSPORT	
10				1	1	1	211749-002	CABLE, EXTENSION	W28
11				1	1	1	211361-000	CABLE, TAPE	W12
12				1	1	1	261070-000	PCBA, MTI	
13				0	0	0	290173-001	LABEL, TRANSPORT	
14				1	1	1	290173-002	LABEL, TRANSPORT	
15				0	0	0	290173-005	LABEL, TRANSPORT	
16									
17									
18				3	3	3	370027-700	NUT, LOCKING #10	
19				3	3	3	370002-700	WASHER, FLAT	

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MATERIAL LIST

Sheet 5 of ML Dwg. No. 211651 Rev. 07

Item No.	Quantity Required						Part No.	Nomenclature or Description	Reference Designation
	-008	-007	-006						
20				2	2	2	370016-100	TIE WRAP	

790406 03

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REVISIONS

REV	DESCRIPTION	DRFTG	APPVD	DATE
01	RELEASE PER DRO 250-7		EB	4/6/79
02	CODE 06 REL WITH CHANGES UPDATED M/L PER ENG INPUT REL PER DRO 243-79	200 S.	JLR RES EB	8/1/79
03	INCORP DCO 09242	KW	EB	8/27/79
04	CODE 10 REL W/O CHANGES PER DCO 10499	LM	EB	4/9/80
05	INCORP DCO 10433	LM	EB	4/18/80
06	INCORP DCO 10453	MV/LM	EB	4/25/80

APPLICATION

NEXT ASSY MODEL  
NTP

TABULATION

DASH NO.	DESCRIPTION
-000	100V 60HZ
-001	100V 50HZ
-002	115V 60HZ
-003	115V 50HZ
-004	230V 60HZ
-005	230V 50HZ

1. REFER TO RIGID DISK OPTION INSTALLATION DRAWING 190309.

NOTE: UNLESS OTHERWISE SPECIFIED.

DRAWN	Norton/ms	4/3/79	PERTEC COMPUTER CORPORATION	
CHECK	<i>[Signature]</i>	4-5-79	DATA SYSTEMS OPERATIONS DIVISION	
APPR	<i>[Signature]</i>	4-5-79	TITLE	
RELEASE	<i>[Signature]</i>	4/18/79	RIGID DISK OPTION KIT # 1 (D3462)	
UNLESS OTHERWISE SPECIFIED			CODE IDENT. NO.	SIZE
1 TOLERANCES			DC CODE	DWG NO.
.xx ±.03 ANGULAR			10	211652
.xxx ±.010 ±0°30'			SCALE	REV
2 REMOVE ALL BURRS			DO NOT SCALE DWG	06
3 BREAK ALL SHARP EDGES .010 APPROX			SHEET 1	OF 3
4 MACH SURFACES 125 ✓ OR BETTER				
5 INTERPRET DWG PER AWS #14				
6 DIM ARE IN INCHES				

Item No.	Quantity Required						Part No.	Nomenclature or Description	Reference Designation
	-005	-004	-003	-002	-001	-000			
1	0	0	0	0	0	1	250116-001	MODIFICATION D3462 DISK DRIVE	
2	0	0	0	0	1	0	250116-002	MODIFICATION D3462 DISK DRIVE	
3	0	0	0	1	0	0	250116-003	MODIFICATION D3462 DISK DRIVE	
4	0	0	1	0	0	0	250116-004	MODIFICATION D3462 DISK DRIVE	
5	0	1	0	0	0	0	250116-005	MODIFICATION D3462 DISK DRIVE	
6	1	0	0	0	0	0	250116-006	MODIFICATION D3462 DISK DRIVE	
7	1	1	1	1	1	1	261124	PCBA, RDI	
8	4	4	4	4	4	4	241683	BRACKET, SLIDE MTG	
9	1	1	1	1	1	1	540031-001	CABLE RETRACTOR	
10	1	1	1	1	1	1	540026-002	SLIDE	
11	1	1	1	1	1	1	242002	BRACKET, CABLE RETRACTOR	
12	4	4	4	4	4	4	470099-001	TERMINATOR NETWORK	Z1,2,3,4
13	1	1	1	1	1	1	211709-000	HARNESS DISK INTFC	W8
14	9	9	9	9	9	9	370002-700	WASHER, FLAT #10	
15	10	10	10	10	10	10	370045-705	SCREW, SOCKET HD CAP	
16	16	16	16	16	16	16	370536-005	SCREW, SLOTTED 8-32 X 1/2	
17	16	16	16	16	16	16	370027-800	NUT, LOCKING 8-32	
18	10	10	10	10	10	10	370536-003	SCREW, SLOTTED 8-32 X 5/16	
19	10	10	10	10	10	10	370003-700	WASHER SPLIT LOCK	

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Item No.	Quantity Required						Part No.	Nomenclature or Description	Reference Designation
	-005	-004	-003	-002	-001	-000			
20	2	2	2	2	2	2	242064	CONTACT, GROUNDING	
21	AR	AR	AR	AR	AR	AR	700015	LOCTITE 242	
22	1	1	1	1	1	1	370027-700	NUT, LOCKING	
23	4	4	4	4	4	4	370045-714	SCREW, SOCKET HD CAP	
24	6	6	6	6	6	6	370686	CLIP CABLE	
25	2	2	2	2	2	2	241970	STRAIN RELIEF	
26	2	2	2	2	2	2	370651-001	SCREW, HEX HD LOCKING	
27	2	2	2	2	2	2	370651-000	SCREW, HEX HD LOCKING	
28	2	2	2	2	2	2	370521-003	WASHER, FLAT	
29	2	2	2	2	2	2	370488-303	STANDOFF, HEX	
30	4	4	4	4	4	4	370036-708	SCREW, PAN HD REC LOCKING 10 - 32 X 3/8	
31	1	1	1	1	1	1	260955-000	PCBA, R/D CONTROLLER	
32	7	7	7	7	7	7	370717-006	CLAMP-CABLE, PUSH MOUNT	
33	7	7	7	7	7	7	370716-003	SPACER-CABLE	

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REVISIONS


REV	DESCRIPTION	DRFTG	APPVD	DATE
01	RELEASE PER DRO 2011-79		EB	4/6/79
02	CODE 06 REL WITH CHANGES UPDATED M/L PER ENG INPUT REL PER DRO 243-79	BS	RES TR EB	8/1/79
03	INCOPR DCO 09242	KW	EB	8/27/79
04	INCORP DCO 09657	JM	TR EB	11/27/79
05	CODE 10 REL W/O CHANGES PER DCO 10499	LM	EB	4/19/80
06	INCORP DCO 10433	LM/P	EB	4/19/80
07	INCORP DCO 10453	MV/LM	EB	4/22/80

APPLICATION	
NEXT ASSY	MODEL
	NTP

TABULATION	
DASH NO.	DESCRIPTION
-000	100V 60HZ
-001	100V 50HZ
-002	115V 60HZ
-003	115V 50HZ
-004	230V 60HZ
-005	230V 50HZ

2. REFER TO RIGID DISK OPTION INSTALLATION DRAWING 190327 IN TAPE/DISK CABINET.
1. REFER TO RIGID DISK OPTION INSTALLATION DRAWING 190309 IN BCS CABINET.

NOTE: UNLESS OTHERWISE SPECIFIED.

DRAWN	Norton/ms	4/3/79	 <b>PERTEC COMPUTER CORPORATION</b> <small>DATA SYSTEMS OPERATIONS DIVISION</small>		
CHECK	<i>[Signature]</i>	4-5-79	TITLE		
APPR	<i>[Signature]</i>	4-5-79	RIGID DISK OPTION KIT #2 (D3462)		
RELEASE	<i>[Signature]</i>	4/5/80	CODE IDENT. NO.	SIZE	DWG NO.
UNLESS OTHERWISE SPECIFIED 1 TOLERANCES .xx   ±.03   ANGULAR .xxx   ±.010   ±0°30' 2 REMOVE ALL BURRS 3 BREAK ALL SHARP EDGES .010 APPROX 4 MACH SURFACES 125 ✓ OR BETTER 5 INTERPRET DWG PER ANS Y14 6 DIM ARE IN INCHES			D C CODE	A	211653
			SCALE	DO NOT SCALE DWG	SHEET 1 OF 3

**MATERIAL LIST**

Sheet 2 of	ML Dwg. No. 211653	Rev. 07
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Item No.	Quantity Required						Part No.	Nomenclature or Description	Reference Designation
	-005	-004	-003	-002	-001	-000			
1	0	0	0	0	0	1	250116-001	MODIFICATION D3462 DISK DRIVE	W26
2	0	0	0	0	1	0	250116-002	MODIFICATION D3462 DISK DRIVE	
3	0	0	0	1	0	0	250116-003	MODIFICATION D3462 DISK DRIVE	
4	0	0	1	0	0	0	250116-004	MODIFICATION D3462 DISK DRIVE	
5	0	1	0	0	0	0	250116-005	MODIFICATION D3462 DISK DRIVE	
6	1	0	0	0	0	0	250116-006	MODIFICATION D3462 DISK DRIVE	
7	1	1	1	1	1	1	261124	PCBA, RDI	
8	4	4	4	4	4	4	241683	BRACKET, SLIDE MTG	
9	1	1	1	1	1	1	540031-001	CABLE RETRACTOR	
10	1	1	1	1	1	1	540026-002	SLIDE	
11	1	1	1	1	1	1	242002	BRACKET, CABLE RETRACTOR	
12									
13	1	1	1	1	1	1	211712-000	CABLE R/D INTERCONNECT	
14	9	9	9	9	9	9	370002-700	WASHER, FLAT #10	
15	10	10	10	10	10	10	370045-705	SCREW, SOCKET HD CAP	
16	16	16	16	16	16	16	370536-005	SCREW, SLOTTED 8-32 X 1/2	
17	16	16	16	16	16	16	370027-800	NUT, LOCKING 8-32	
18	10	10	10	10	10	10	370536-003	SCREW, SLOTTED 8-32 X 5/16	
19	10	10	10	10	10	10	370003-700	WASHER SPLIT LOCK	

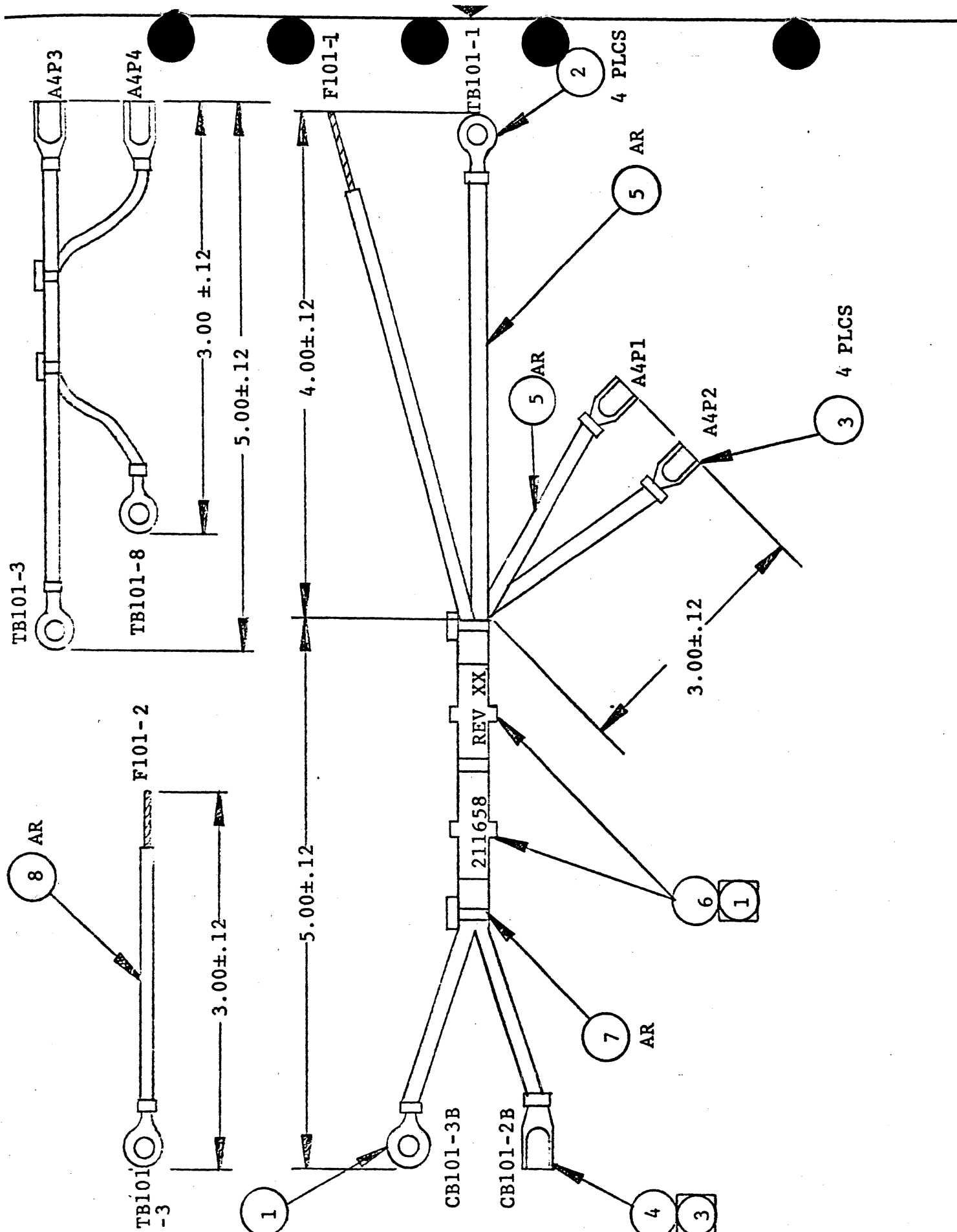
790406-03

**MATERIAL LIST**

Sheet 3 of	ML Dwg. No. 211653	Rev. 07
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Item No.	Quantity Required						Part No.	Nomenclature or Description	Reference Designation
	-005	-004	-003	-002	-001	-000			
20	2	2	2	2	2	2	242064	CONTRACT, GROUNDING	
21	AR	AR	AR	AR	AR	AR	700015	LOCTITE 242	
22	1	1	1	1	1	1	370027-700	NUT, LOCKING	
23	4	4	4	4	4	4	370045-714	SCREW, SOCKET HD CAP	
24	6	6	6	6	6	6	370686	CLIP, CABLE	
25	2	2	2	2	2	2	241970-000	STRAIN RELIEF	
26	2	2	2	2	2	2	370651-001	SCREW, HEX HD, LOCKING	
27	2	2	2	2	2	2	370651-000	SCREW, HEX HD, LOCKING	
28	2	2	2	2	2	2	370521-003	WASHER, FLAT	
29	2	2	2	2	2	2	370488-303	STANDOFF, HEX	
30	4	4	4	4	4	4	370036-708	SCREW, PAN HD REC LOCKING 10 - 32 X 3/8	
31									
32	7	7	7	7	7	7	370717-006	CLAMP-CABLE, PUSH MOUNT	
33	7	7	7	7	7	7	370716-003	SPACER-CABLE	

790406-03



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REVISIONS				
REV	DESCRIPTION	DRFTG	APPVD	DATE
01	RELEASE PER DRO 108-79		EB	5/31/79
APPLICATION				
02	CODE 05 REL WITH CHANGES REVISE PER ENGR INPUT REL PER DRO 571-79	MV	RES	(R)
NEXT ASSY				
211658	XL20		EB	12/12/79
MODEL				
	NTP	MV/LM	EB	3/27/80 (R)
	XL40	MV	MP EB	8/15/80 (R)
03	INCORP DCO 10516			
04	INCORP DCO 10898			
05	CODE 10 RELEASE W/O CHANGE PER DCO 10894	MV	EB	10/8/80 (R)

- 3 IDENTIFY ALL LOOSE WIRE ENDS WITH APPROPRIATE TERMINATION DESIGNATION.
- 2 FOR CONNECTION OF CIRCUIT BREAKER (CB101) FOLLOW THE TERMINATION CODE:
  - 1 = 7.5 AMP LOAD
  - 2 = SWITCH LOAD
  - 3 = 15 AMP LOAD
- 1 PERMANENTLY MARK ASSEMBLY NUMBER, "REV" AND APPROPRIATE REVISION LEVEL, AND REF DESIGNATIONS AS SHOWN USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPECIFICATION 100034.

NOTE: UNLESS OTHERWISE SPECIFIED.

DISTRIBUTION CLASS C

DRAWN	VEGA/kw	5/21/79
CHECK	T. CLARK	5/24/79
APPR	R. SPINALE	5/31/79
RELEASE	G. BRINK	5/31/79

**PERTEC COMPUTER CORPORATION**  
DATA SYSTEMS OPERATIONS DIVISION

TITLE  
CABLE ASSY, PRIMARY A.C.

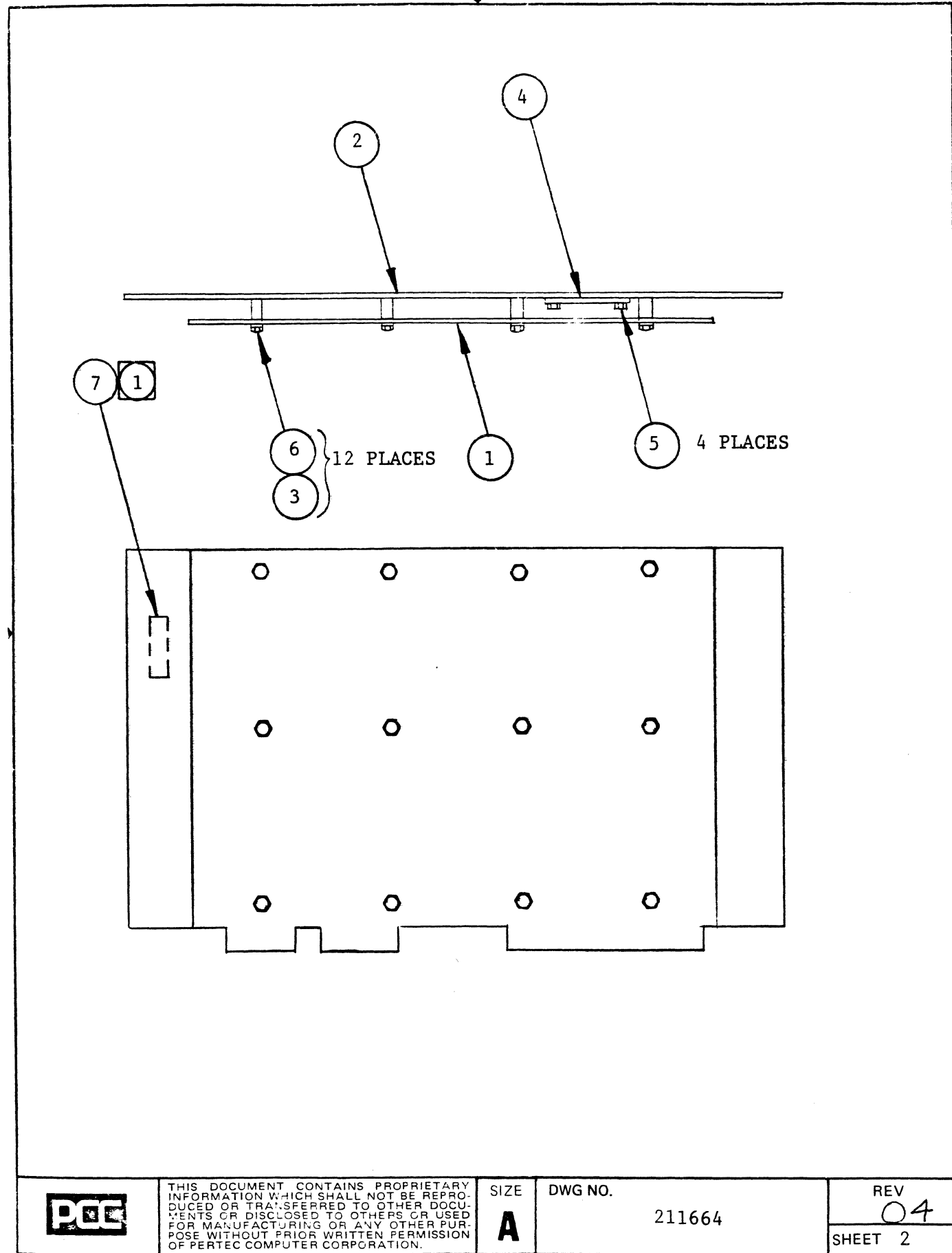
- UNLESS OTHERWISE SPECIFIED
- 1 TOLERANCES  
.xx ±.03 ANGULAR  
.xxx ±.010 ±0°30'
  - 2 REMOVE ALL BURRS
  - 3 BREAK ALL SHARP EDGES .010 APPROX
  - 4 MACH SURFACES 125 ✓ OR BETTER
  - 5 INTERPRET DWG PER ANS Y14
  - 6 DIM ARE IN INCHES

CODE IDENT. NO.	SIZE	DWG NO.	REV.
DC CODE 10	A	211658	05
SCALE	DO NOT SCALE DWG	SHEET 1	OF 4



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SIZE	DWG NO.	REV
A	211658	05
		SHEET 2



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REVISIONS				
REV	DESCRIPTION	DRFTG	APPVD	DATE
01	RELEASE PER DRO 242-79		EB	8/1/79
02	CODE 06 REL W/O CHANGES PER DCO 09480	KW <sup>TP</sup>	EB	9/1/79
03	INCORP DCO 10267	BM/LM	EB	4/7/80
04	CODE 10 RELEASE W/O CHANGE PER DCO 10499	JM	EB	4/9/80

APPLICATION	
NEXT ASSY	MODEL
	NTP

1 APPLY P/N-S/N IDENTIFICATION LABEL (ITEM 7) APPROXIMATELY WHERE SHOWN.

NOTE: UNLESS OTHERWISE SPECIFIED.

DRAWN	MURRAY/ms	4/23/79
CHECK	<i>[Signature]</i>	7-11-79
APPR	<i>[Signature]</i>	7-11-79
RELEASE	<i>[Signature]</i>	8/1/79

**PEG PERTEC COMPUTER CORPORATION**  
DATA SYSTEMS OPERATIONS DIVISION

TITLE  
**TEST PANEL ASSY**

- UNLESS OTHERWISE SPECIFIED
- TOLERANCES  
 .xx ±.03 ANGULAR  
 .xxx ±.010 ±0°30'
  - REMOVE ALL BURRS
  - BREAK ALL SHARP EDGES .010 APPROX
  - MACH SURFACES 125 ✓ OR BETTER
  - INTERPRET DWG PER ANS Y14
  - DIM ARE IN INCHES

CODE IDENT. NO.	SIZE	DWG NO.	REV.
D C CODE	<b>A</b>	211664	<b>04</b>
SCALE NONE	DO NOT SCALE DWG	SHEET 1 OF 3	



PERTEC  
COMPUTER  
CORPORATION

# MATERIAL LIST

Sheet 3 of

ML  
Dwg. No.

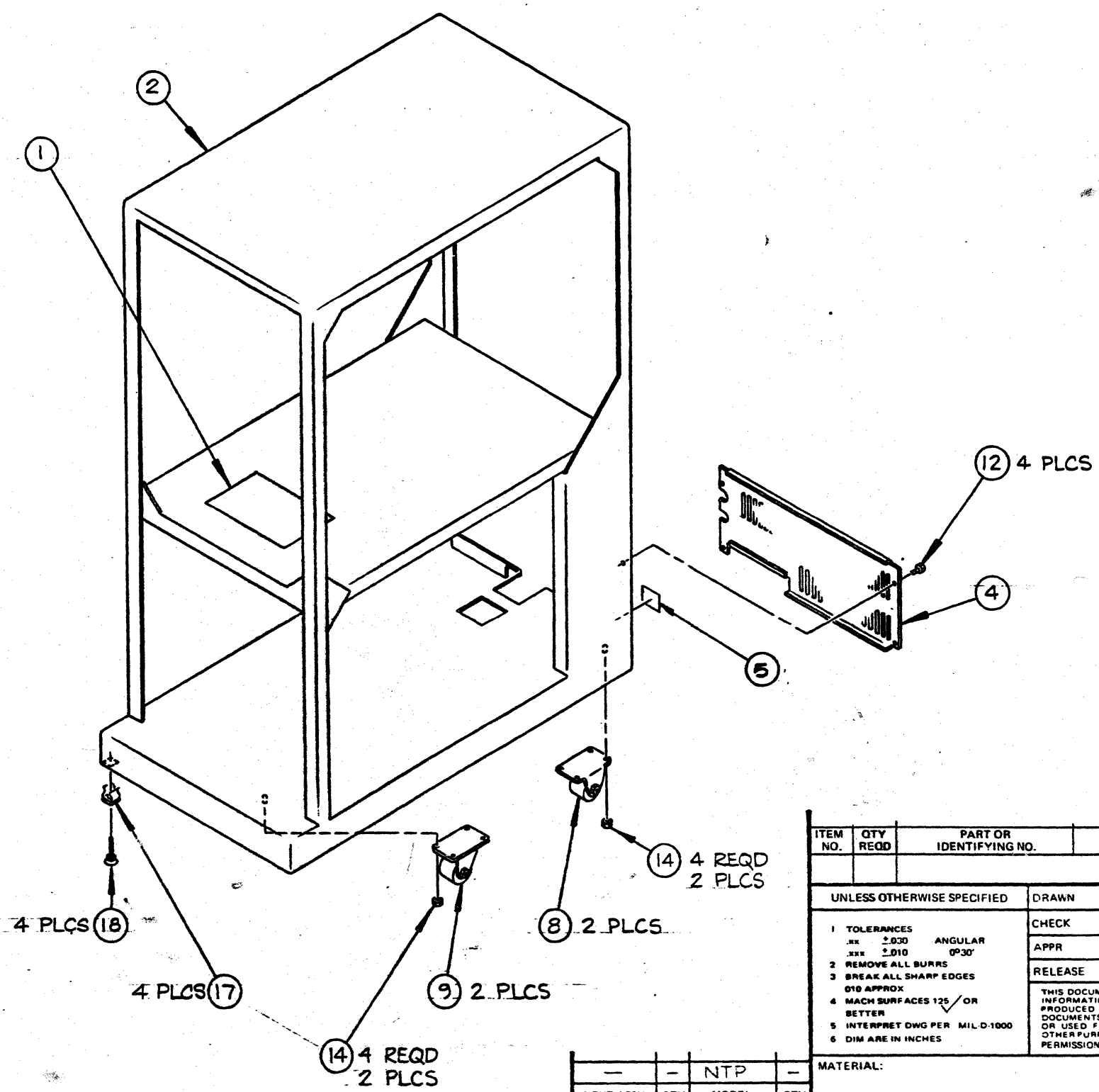
211664

Rev. 04

Item No.	Quantity Required					Part No.	Nomenclature or Description	Reference Designation
					-000			
1					1	261165	PCBA, TEST SET DISPLAY	
2					1	230706	PANEL TEST SET	
3					12	370651-001	SCREW, HEX HD LOCKING	
4					1	241841	DIFFUSER, TEST SET PANEL	
5					4	370027-400	NUT, LOCKING	
6					12	370250-632	WASHER FLAT	
7					1	290231	LABEL, IDENTIFICATION	



REVISIONS				
SYM	DESCRIPTION	DRFTG	APPROVED	DATE
01	RELEASE PER DRO		EP	8/22/79
02	CODE 10 REL W/O CHANGE PER DCO 10499	JAM	MPB	4/5/80
03	INCORP DCO 11226	TC	MPB	1/9/80
04	INCORP DCO 11315		MPB	12/23/80



**NOTE: UNLESS OTHERWISE SPECIFIED**  
 1. REFERENCE CABLE DIAGRAM, TAPE/DISK CABINET 121199.

ITEM NO.	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	DISTRIBUTION CLASS
MATERIAL LIST				B
UNLESS OTHERWISE SPECIFIED		DRAWN	Bob SIMMONS 8/1/79	<b>DEC BUSINESS SYSTEMS</b> <small>A Division of Perdec Computer Corporation</small>
1 TOLERANCES .XX .000 ANGULAR .XXX .010 0°30'		CHECK	T.L. RODGERS 8-8-79	
2 REMOVE ALL BURRS 3 BREAK ALL SHARP EDGES 4 MACH SURFACES 125 ✓ OR BETTER 5 INTERPRET DWG PER MIL-D-1000 6 DIM ARE IN INCHES		APPR	R. Schumacher 8-16-79	
		RELEASE	G. Briel 8/22/79	
TITLE				REV
TAPE/DISK CABINET, BASIC				04
MATERIAL:		CODE IDENT NO.	SIZE	DWG NO
FINISH:		10	C	211669
APPLICATION		SCALE NONE	DO NOT SCALE DWG	SHEET 1 OF 2

NEXT ASSY	QTY	MODEL	QTY
-	-	NTP	-



Item No.	Quantity Required						Part No.	Nomenclature or Description	Reference Designation
						-000			
1						1	290357-000	LABEL, WARNING	
2						1	230700-000	FRAME, CCU	
3									
4						1	230701-000	PANEL, I/O CONNECTOR	
5						1	290359-001	LABEL, FCC COMPLIANCE	
6									
7									
8						2	540018-106	CASTER, RIGID	
9						2	540007-106	CASTER, SWIVEL	
10									
11									
12						6	370651-003	SCREW, SELF LOCKING 10-32 X 3/8	
13									
14						16	370537-000	NUT, LOCKING 5/16 -18	
15									
16									
17						4	370374-007	SOCKET, GLIDE	
18						4	370475-243	GLIDE, LEG	
19									

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REVISIONS

REV	DESCRIPTION	DRFTG	APPVD	DATE
01	RELEASE PER DRO 282-79		EB	8/22/79
02	INCORP DCO 10283	FC/KW	EB	2/1/80
03	INCORP DCO 10387	JN/LM	EB	3/20/80
04	CODE 10 REL W/O CHANGES PER DCO 10499	LM	EB	4/7/80

APPLICATION


NEXT ASSY MODEL  
NTP

TABULATION

DASH NO.	DESCRIPTION
-001	1 DISK ONLY
-002	1 DISK 1 MINI
-003	1 DISK 2 MINI'S
-004	1 DISK 1 MAXI
-005	2 DISK ONLY
-006	2 DISK 1 MINI
-007	2 DISK 2 MINI'S
-008	2 DISK 1 MAXI
-009	1 MAXI
-010	NO PERIPHERALS

1. REFER TO COLOR KIT INSTALLATION DWG 190314.

NOTE: UNLESS OTHERWISE SPECIFIED.

DRAWN	FClark/ms	5/30/79	 <b>PERTEC COMPUTER CORPORATION</b> <small>DATA SYSTEMS OPERATIONS DIVISION</small>	
CHECK	TL ROQUEMORE	8-9-79		
APPR	R Schumaker	8-16-79		
RELEASE	G. Davis	8/22/79		
UNLESS OTHERWISE SPECIFIED 1 TOLERANCES .xx     ±.03    ANGULAR .xxx    ±.010   ±0°30' 2 REMOVE ALL BURRS 3 BREAK ALL SHARP EDGES .010 APPROX 4 MACH SURFACES 125 ✓ OR BETTER 5 INTERPRET DWG PER ANS Y14 6 DIM ARE IN INCHES			TITLE  <p style="text-align: center;">OPTIONAL COLOR KIT (UNIVAC)</p>	
CODE IDENT. NO.		SIZE	DWG NO.	REV.
D/C CODE 10		<b>A</b>	211670	04
SCALE		DO NOT SCALE DWG		SHEET 1 OF 3



PERTEC  
COMPUTER  
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MATERIAL LIST

Sheet 2 of

ML  
Dwg. No.

211670

Rev.

04

Item No.	Quantity Required						Part No.	Nomenclature or Description	Reference Designation
	-006	-005	-004	-003	-002	-001			
1	1	1	1	1	1	1	211671-000	SYSTEM CONTROL PANEL ASSY	
2	1	2	0	0	1	2	230381-201	PANEL FRONT (MINI)	
3	0	0	1	1	1	1	230696-001	PANEL, FRONT (R/D)	
4	1	1	0	1	1	1	230695-001	PANEL, TOP FRONT	
5	2	2	2	2	2	2	230690-001	PANEL SIDE	
6	1	1	1	1	1	1	230699-001	PANEL, REAR	
7	1	1	1	1	1	1	230702-000	TOP COVER	
8	2	2	1	1	1	1	210977-002	BEZEL ASSY (R/D)	
9	1	0	0	2	1	0	290332-000	OVERLAY, CONTROL PANEL (MINI)	
10	0	0	1	0	0	0	290331-000	OVERLAY, CONTROL PANEL (MAXI)	
11	0	0	1	0	0	0	290339-000	OVERLAY (MAXI)	
12	2	2	1	1	1	1	290330-000	OVERLAY, CONTROL PANEL (R/D)	
13	28	28	28	28	28	28	241643-000	CLIP, SPRING	
14	1	1	1	1	1	1	290069-000	LABEL, ASSY NO.	
15									
16	12	12	6	6	6	6	690000-154	SCREW 10-32X 5/8 FH HEX DRIVE	(PED P/N 615-0086)
17	8	8	8	8	8	8	370651-009	SCREW, LOCKING 8-32 X 3/8	
18	11	14	8	12	15	18	370651-000	SCREW, LOCKING 6-32 X 3/8	
19	11	14	8	12	15	18	370002-600	WASHER, FLAT #6	

790406-03



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CORPORATION

MATERIAL LIST

Sheet 3 of

ML  
Dwg. No.

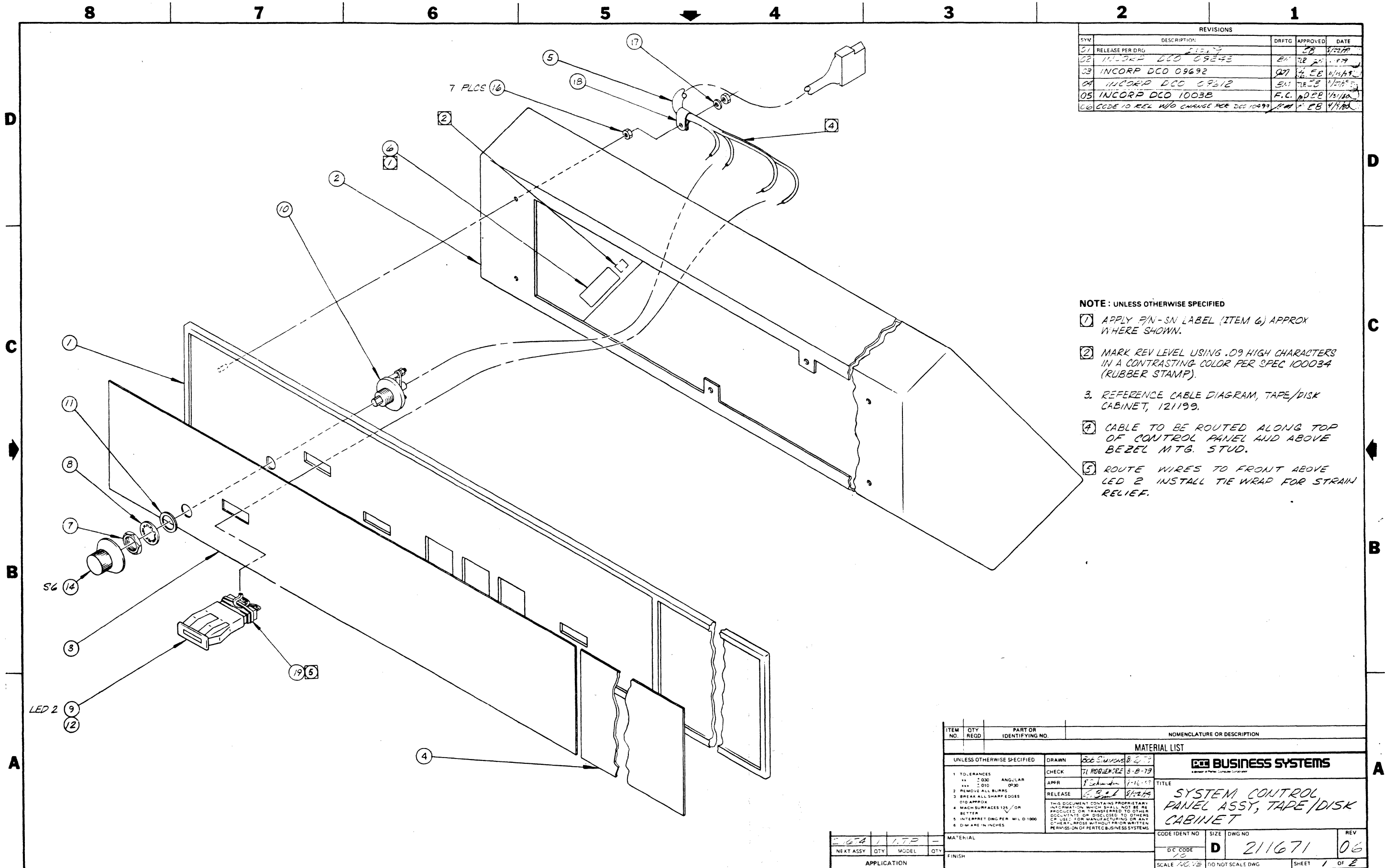
211670

Rev.

04

Item No.	Quantity Required				Part No.	Nomenclature or Description	Reference Designation		
	-010	-009	-008	-007					
1			1	1	1	1	211671-000	SYSTEM CONTROL PANEL ASSY	
2			2	0	0	0	230381-201	PANEL, FRONT (MINI)	
3			2	2	0	0	230696-001	PANEL, FRONT (R/D)	
4			1	0	0	1	230695-001	PANEL, TOP FRONT	
5			2	2	2	2	230690-001	PANEL, SIDE	
6			1	1	1	1	230699-001	PANEL, REAR	
7			1	1	1	1	230702-000	TOP COVER	
8			0	0	2	2	210977-002	BEZEL ASSY (R/D)	
9			0	0	0	2	290332-000	OVERLAY, CONTROL PANEL (MINI)	
10			0	1	1	0	290331-000	OVERLAY, CONTROL PANEL (MAXI)	
11			0	1	1	0	290339-000	OVERLAY (MAXI)	
12			0	0	2	2	290330-000	OVERLAY, CONTROL PANEL (R/D)	
13			28	28	28	28	241643-000	CLIP, SPRING	
14			1	1	1	1	290069-000	LABEL, ASSY NO.	
15									
16			0	0	12	12	690000-154	SCREW 10-32 X 5/8 FH HEX DRIVE	(PED P/N 615-0086)
17			8	8	8	8	370651-009	SCREW, LOCKING 8-32 X 3/8	
18			22	12	4	8	370651-000	SCREW, LOCKING 6-32 X 3/8	
19			22	12	4	8	370002-600	WASHER, FLAT #6	

790406-03



REVISIONS				
SYM	DESCRIPTION	DRAFT	APPROVED	DATE
01	RELEASE PER DRG		EB	8/22/79
02	INCORP DCO 09243	EM	TLB	11/27/79
03	INCORP DCO 09692	QW	EE	11/28/79
04	INCORP DCO 09612	SM	TLB	1/17/80
05	INCORP DCO 1003B	F.C.	ADBB	1/21/80
06	CODE 10 REL W/O CHANGE PER DCO 10499	EM	EB	4/19/80

- NOTE: UNLESS OTHERWISE SPECIFIED**
- ① APPLY P/N-SN LABEL (ITEM 6) APPROX WHERE SHOWN.
  - ② MARK REV LEVEL USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPEC 100034 (RUBBER STAMP).
  - ③ REFERENCE CABLE DIAGRAM, TAPE/DISK CABINET, 121193.
  - ④ CABLE TO BE ROUTED ALONG TOP OF CONTROL PANEL AND ABOVE BEZEL MTG. STUD.
  - ⑤ ROUTE WIRES TO FRONT ABOVE LED 2 INSTALL TIE WRAP FOR STRAIN RELIEF.

ITEM NO.	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION										
<b>MATERIAL LIST</b>													
UNLESS OTHERWISE SPECIFIED		DRAWN	BOB SIMMONS 8-2-79										
1 TOLERANCES		CHECK	TI ROSENBERG 5-8-79										
** .000 ANGULAR		APR	J. Schumacher 1-16-80										
*** .010 .030		RELEASE	8-2-79										
2 REMOVE ALL BURRS		THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR TRANSMITTED TO OTHER DOCUMENTS OR DISCLOSED TO OTHERS OR USED FOR MANUFACTURING OR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN PERMISSION OF PERTEC BUSINESS SYSTEMS											
3 BREAK ALL SHARP EDGES .010 APPROX		<table border="1"> <tr> <td>TITLE</td> <td>SYSTEM CONTROL PANEL ASSY, TAPE/DISK CABINET</td> </tr> <tr> <td>CODE IDENT NO</td> <td></td> </tr> <tr> <td>SIZE</td> <td>D</td> </tr> <tr> <td>DWG NO</td> <td>211671</td> </tr> <tr> <td>REV</td> <td>06</td> </tr> </table>		TITLE	SYSTEM CONTROL PANEL ASSY, TAPE/DISK CABINET	CODE IDENT NO		SIZE	D	DWG NO	211671	REV	06
TITLE	SYSTEM CONTROL PANEL ASSY, TAPE/DISK CABINET												
CODE IDENT NO													
SIZE	D												
DWG NO	211671												
REV	06												
4 MACH SURFACES 125 /OR BETTER													
5 INTERPRET DWG PER MIL-D-1000													
6 DIM ARE IN INCHES													
<table border="1"> <tr> <td>APPLICATION</td> <td>FINISH</td> <td>SCALE</td> <td>DO NOT SCALE DWG</td> <td>SHEET</td> <td>1 OF 2</td> </tr> </table>				APPLICATION	FINISH	SCALE	DO NOT SCALE DWG	SHEET	1 OF 2				
APPLICATION	FINISH	SCALE	DO NOT SCALE DWG	SHEET	1 OF 2								



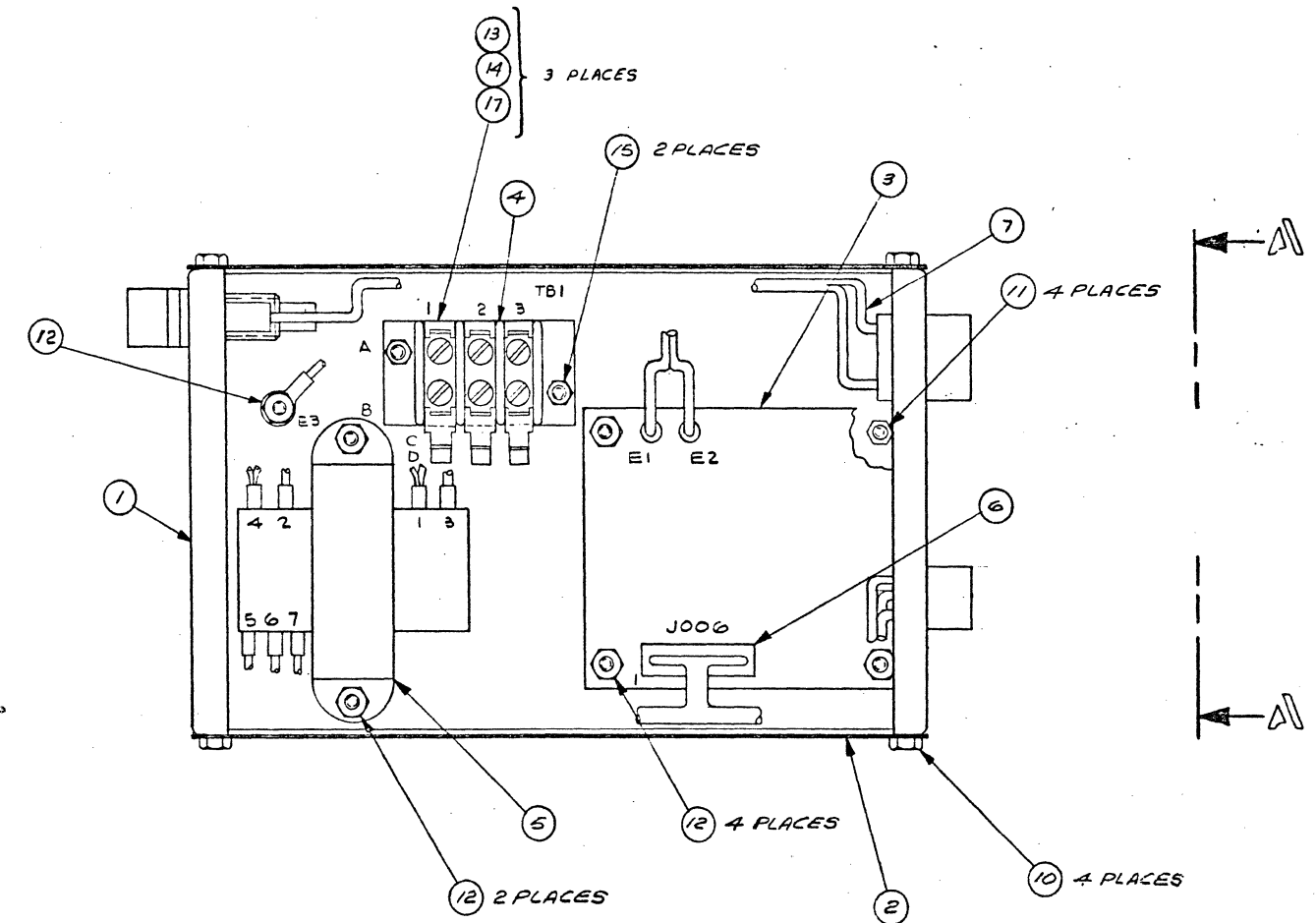
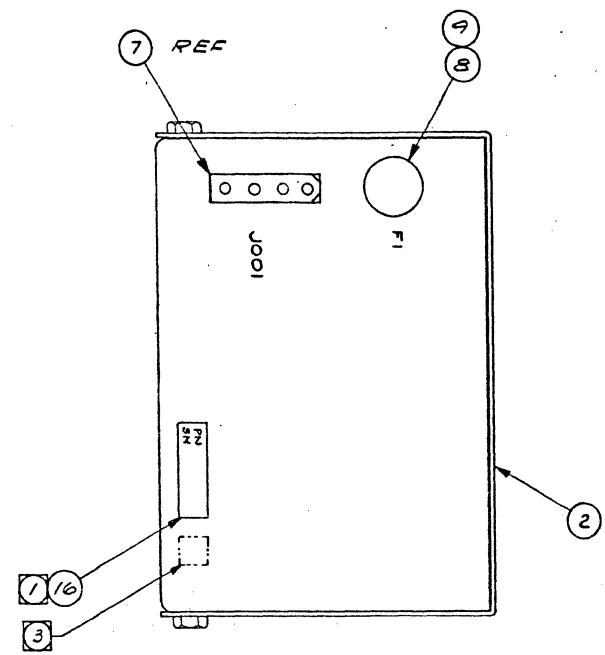
PERTEC  
COMPUTER  
CORPORATION

MATERIAL LIST

Sheet 2 of 2	ML Dwg. No.	211671	Rev. 06
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Item No.	Quantity Required					Part No.	Nomenclature or Description	Reference Designation	
					-000				
1						230693 -001	BEZEL, SYSTEM CONTROL	(A7W1)	
2						230692 -001	PANEL, SYSTEM CONTROL		
3						290337 -000	OVERLAY, CONTROL PANEL		
4						290328 -000	LOGO		
5						211761-000	CABLE SYSTEM CONTROL		
6						290231-000	LABEL, IDENTIFICATION		
7						370695-001	NUT, HEX, SMALL PATTERN		
8						370694-001	WASHER, LOCKING 3/8 ID		
9						530094-001	INDICATOR (YELLOW)		LED 2
10						480139-001	SWITCH, ROTARY		S6
11						370696-001	WASHER, FLAT 3/8 ID		
12					AR	420115-150	TUBING, SHRINK		
13									
14						1 360001-113	KNOB, ROTARY		
15									
16						7 370027-600	NUT, LOCKING #6-32		
17						1 370002-600	WASHER FLAT		
18						1 370008-610	CLAMP		
19						1 370016-XXX	TIE WRAP		

SYM	DESCRIPTION	DRF TO	REV	DATE
01	RELEASE PER DRO		EB	8/22/49
02	INCORP DCO 10033	F.C.	EB	12/1/51
03	CODE 10 REL W/O CHANGE PER DCO 10499	F.C.	EB	9/17/51
04	INCORP DCO 10255	F.C.	EB	11/14/50
05	INCORP DCO 11265	MV	EB	11/18/50

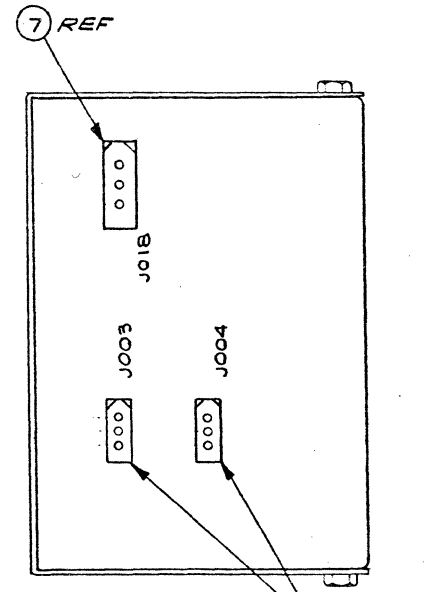


NOTE: UNLESS OTHERWISE SPECIFIED

- 1 APPLY PART NO - SERIAL NO. IDENTIFICATION LABEL (ITEM NO 10) APPROX WHERE SHOWN.
2. REFERENCE DRAWING: SCHEMATIC 121205
- 3 RUBBER STAMP REV NO. APPROX WHERE SHOWN IN A CONTRASTING COLOR PER SPEC 100034.

COVER (ITEM 2) PARTIALLY REMOVED FOR CLARITY

VOLTAGE TABULATION			
DASH NO	VOLTAGE	FROM	TO
001	115 VAC	T1-01	T81-3B
		T1-03	T81-1B
002	230 VAC	T1-01	T81-2B
		T1-03	T81-3B



VIEW A-A

ITEM NO.	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	DISTRIBUTION CLASS
MATERIAL LIST				
PERTEC BUSINESS SYSTEMS				
AUX POWER SUPPLY				
UNLESS OTHERWISE SPECIFIED		DRAWN	F. CLARK	EB/MS
1 TOLERANCES		CHECK		
.XX .030 ANGULAR		APPR		
.XXX .010 0°30'		RELEASE		
2 REMOVE ALL BURRS		THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR DISCLOSED TO OTHERS OR USED FOR MANUFACTURING OR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN PERMISSION OF PERTEC BUSINESS SYSTEMS		
3 BREAK ALL SHARP EDGES		MATERIAL		
4 MACH SURFACES 125 / OR BETTER		FINISH		
5 INTERPRET DWG PER MIL-D-1000		CODE IDENT NO		
6 DIM ARE IN INCHES		SIZE		
		DWG NO		
		REV		
		D C CODE		
		SCALE		
		SHEET 1 OF 2		

211675	1	NTP	-
NEXT ASSY	QTY	MODEL	QTY
APPLICATION			



PERTEC  
COMPUTER  
CORPORATION

MATERIAL LIST

Sheet 2 of 2

ML  
Dwg. No.

211675

Rev.

05

Item No.	Quantity Required						Part No.	Nomenclature or Description	Reference Designation
					-002	-001			
1					1	1	230726	CHASSIS, AUX P/S	
2					1	1	242074	COVER, AUX P/S	
3					1	1	261178	PCBA, AUX P/S	
4					1	1	320209-002	TERMINAL STRIP	
5					1	1	490074	TRANSFORMER, LOW VOLTAGE	
6					1	1	211764-000	HARNESS, AUX P/S DC	W2
7					1	1	211916-000	HARNESS, AUX P/S AC	W1
8					1	1	360022	HOLDER, FUSE	
9					1	1	360008-010	FUSE, 3 AG SLOW-BLO, 1 AMP	
10					4	4	370661-000	SCREW, THREAD CUTTING HEX HEAD	
11					4	4	370026-642	STAND-OFF, HEX THD	
12					7	7	370027-600	NUT LOCKING	
13					3	3	320212-000	TERMINAL, BLADE	
14					3	3	320212-004	TERMINAL, BLADE	
15					2	2	370028-600	NUT, HEX SMALL PATTERN	
16					1	1	290231	LABEL, PCBA INDENTIFICATION	
17					3	3	320212-002	TERMINAL, BLADE	



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REVISIONS

REV	DESCRIPTION	DRFTG	APPVD	DATE
01	RELEASE PER DRO 282-79		EB	9/22/79
02	CODE 10 REL W/O CHANGES PER DCO 10499	LM	EB	4/9/80
03	INCORP DCO 10433	LM + P	EB	4/18/80
04	INCORP DCO 10453	MV/LM	EB	4/25/80
05	INCORP DCO 10413	MV/LM	EB	4/25/80

APPLICATION


NEXT ASSY	MODEL
	NTP

TABULATION

DASH NO.	DESCRIPTION
-000	100V 60HZ
-001	100V 50HZ
-002	115V 60HZ
-003	115V 50HZ
-004	230V 60HZ
-005	230V 50HZ

1. REFER TO INSTALLATION DRAWING 190327.

NOTE: UNLESS OTHERWISE SPECIFIED.

DRAWN	F. Clark	5-31-79	 <b>PERTEC COMPUTER CORPORATION</b> <small>DATA SYSTEMS OPERATIONS DIVISION</small>
CHECK	TL PROBUENDE	8-17-79	
APPR	RSchumch	8-19-79	
RELEASE	G. Bink	9/22/79	
UNLESS OTHERWISE SPECIFIED 1 TOLERANCES .xx ±.03 ANGULAR .xxx ±.010 ±0°30' 2 REMOVE ALL BURRS 3 BREAK ALL SHARP EDGES .010 APPROX 4 MACH SURFACES 125 ✓ OR BETTER 5 INTERPRET DWG PER ANS Y14 6 DIM ARE IN INCHES			TITLE  RIGID DISK OPTION KIT #1 (D3422)
CODE IDENT. NO.	SIZE	DWG NO.	REV.
D C CODE 10	<b>A</b>	211676	05
SCALE	DO NOT SCALE DWG		SHEET 1 OF 4

Item No.	Quantity Required						Part No.	Nomenclature or Description	Reference Designation
	-005	-004	-003	-002	-001	-000			
1	0	0	0	0	0	1	250115-001	MODIFICATION D3422 DISK DRIVE	
2	0	0	0	0	1	0	250115-002	MODIFICATION D3422 DISK DRIVE	
3	0	0	0	1	0	0	250115-003	MODIFICATION D3422 DISK DRIVE	
4	0	0	1	0	0	0	250115-004	MODIFICATION D3422 DISK DRIVE	
5	0	1	0	0	0	0	250115-005	MODIFICATION D3422 DISK DRIVE	
6	1	0	0	0	0	0	250115-006	MODIFICATION D3422 DISK DRIVE	
7	1	1	1	1	1	1	261124-000	PCBA, RDI	
8	4	4	4	4	4	4	241683-000	BRACKET, SLIDE MTG	
9	1	1	1	1	1	1	540031-001	CABLE RETRACTOR/DISK	
10	1	1	1	1	1	1	540026-002	SLIDE	
11	1	1	1	1	1	1	242002-000	BRACKET, CABLE RETRACTOR/DISK	
12	4	4	4	4	4	4	470099-001	TERMINATOR NETWORK	Z1,2,3,4
13	1	1	1	1	1	1	211695-000	CABLE, R/D INTERCONNECT	W22
14	9	9	9	9	9	9	370002-700	WASHER, FLAT #10	
15	10	10	10	10	10	10	370045-705	SCREW, SOCKET HD CAP	
16	16	16	16	16	16	16	370536-005	SCREW, SLOTTED 8-32 X 1/2	
17	16	16	16	16	16	16	370027-800	NUT, LOCKING 8-32	
18	10	10	10	10	10	10	370536-003	SCREW, SLOTTED 8-32 X 5/16	
19	10	10	10	10	10	10	370003-700	WASHER, SPLIT LOCK	

790406 03

Item No.	Quantity Required						Part No.	Nomenclature or Description	Reference Designation
	-005	-004	-003	-002	-001	-000			
39	4	4	4	4	4	4	370045-714	SCREW, SOCKET HD CAP	
40	8	8	8	8	8	8	370002-400	WASHER, FLAT	

790406 03

Item No.	Quantity Required						Part No.	Nomenclature or Description	Reference Designation
	-005	-004	-003	-002	-001	-000			
20	2	2	2	2	2	2	242064-000	CONTACT, GROUNDING	
21	AR	AR	AR	AR	AR	AR	700015-000	LOCTITE 242	
22	1	1	1	1	1	1	370027-700	NUT, LOCKING	
23	1	1	1	1	1	1	211717-000	CABLE, R/D INTERFACE	W25
24	6	6	6	6	6	6	370686-000	CLIP, CABLE	
25	2	2	2	2	2	2	241970-000	STRAIN RELIEF	
26	2	2	2	2	2	2	370651-001	SCREW, HEX HD, LOCKING	
27	2	2	2	2	2	2	370651-000	SCREW, HEX HD LOCKING	
28	2	2	2	2	2	2	370521-003	WASHER, FLAT	
29	2	2	2	2	2	2	370488-303	STANDOFF HEX	
30	4	4	4	4	4	4	370036-708	SCREW, PAN HD LOCKING 10-32 X 1/2	
31	7	7	7	7	7	7	370717-006	CLAMP-CABLE, PUSH MOUNT	
32	7	7	7	7	7	7	370716-003	SPACER-CABLE	
33									
34	8	8	8	8	8	8	370036-410	SCREW, PAN HD PHIL REC LOCKING	
35	8	8	8	8	8	8	370027-400	NUT, LOCKING	
36	2	2	2	2	2	2	370574-004	CABLE CLAMP	
37	2	2	2	2	2	2	370651-003	SCREW, HEX HD LOCKING	
38	1	1	1	1	1	1	211718-000	CABLE, R/D INTERFACE	W23

790406 03

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**REVISIONS**

REV	DESCRIPTION	DRFTG	APPVD	DATE
01	RELEASE PER DRO 292-79		EB	2/22/79
02	CODE 10 REL W/O CHANGES PER DCO 10499	LM	EB	4/9/80 (R)
03	INCORP DCO 10433	LM	EB	4/13/80 (R)
04	INCORP DCO 10453	MV/LM	EB	4/13/80 (R)
05	INCORP DCO 10413	MV/LM	EB	4/13/80 (R)

APPLICATION	
NEXT ASSY	MODEL
	NTP

TABULATION	
DASH NO.	DESCRIPTION
-000	100V 60HZ
-001	100V 50HZ
-002	115V 60HZ
-003	115V 50HZ
-004	230V 60HZ
-005	230V 50HZ

1. REFER TO INSTALLATION DRAWING 190327.  
 NOTE: UNLESS OTHERWISE SPECIFIED.

DRAWN	F. Clark	5-31-79	 <b>PERTEC COMPUTER CORPORATION</b> <small>DATA SYSTEMS OPERATIONS DIVISION</small>
CHECK	TL. ROULEANZE	6-17-79	
APPR	R. Schmale	8-17-79	
RELEASE	G. Bond	2/22/79	
UNLESS OTHERWISE SPECIFIED 1 TOLERANCES .xx   ±.03   ANGULAR .xxx   ±.010   ±0°30' 2 REMOVE ALL BURRS 3 BREAK ALL SHARP EDGES .010 APPROX 4 MACH SURFACES 125 ✓ OR BETTER 5 INTERPRET DWG PER ANS Y14 6 DIM ARE IN INCHES			TITLE <p style="text-align: center;">RIGID DISK OPTION KIT #1 (D3462)</p>
CODE IDENT. NO.	SIZE	DWG NO.	REV.
D C CODE 10	<b>A</b>	211677	<b>05</b>
SCALE	DO NOT SCALE DWG		SHEET 1 OF 4

Item No.	Quantity Required						Part No.	Nomenclature or Description	Reference Designation
	-005	-004	-003	-002	-001	-000			
1	0	0	0	0	0	1	250116-001	MODIFICATION D3462 DISK DRIVE	
2	0	0	0	0	1	0	250116-002	MODIFICATION D3462 DISK DRIVE	
3	0	0	0	1	0	0	250116-003	MODIFICATION D3462 DISK DRIVE	
4	0	0	1	0	0	0	250116-004	MODIFICATION D3462 DISK DRIVE	
5	0	1	0	0	0	0	250116-005	MODIFICATION D3462 DISK DRIVE	
6	1	0	0	0	0	0	250116-006	MODIFICATION D3462 DISK DRIVE	
7	1	1	1	1	1	1	261124-000	PCBA, RDI	
8	4	4	4	4	4	4	241683-000	BRACKET, SLIDE MTG	
9	1	1	1	1	1	1	540031-001	CABLE RETRACTOR	
10	1	1	1	1	1	1	540026-002	SLIDE	
11	1	1	1	1	1	1	242002-000	BRACKET, CABLE RETRACTOR /DISK	
12	4	4	4	4	4	4	470099-001	TERMINATOR NETWORK	Z1,2,3,4
13	1	1	1	1	1	1	211695-000	CABLE, R/D INTERCONNECT	W22
14	9	9	9	9	9	9	370002-700	WASHER, FLAT #10	
15	10	10	10	10	10	10	370045-705	SCREW, SOCKET HD CAP	
16	16	16	16	16	16	16	370536-005	SCREW, SLOTTED 8-32 X 1/2	
17	16	16	16	16	16	16	370027-800	NUT, LOCKING 8-32	
18	10	10	10	10	10	10	370536-003	SCREW, SLOTTED 8-32 X 5/16	
19	10	10	10	10	10	10	370003-700	WASHER, SPLIT LOCK	

790496-03

Item No.	Quantity Required						Part No.	Nomenclature or Description	Reference Designation
	-005	-004	-003	-002	-001	-000			
20	2	2	2	2	2	2	242064-000	CONTACT, GROUNDING	
21	AR	AR	AR	AR	AR	AR	700015-000	LOCTITE 242	
22	1	1	1	1	1	1	370027-700	NUT, LOCKING	
23	1	1	1	1	1	1	211717-000	CABLE, R/D INTERFACE	W25
24	6	6	6	6	6	6	370686-000	CLIP, CABLE	
25	2	2	2	2	2	2	241970-000	STRAIN RELIEF	
26	2	2	2	2	2	2	370651-001	SCREW, HEX HD, LOCKING	
27	2	2	2	2	2	2	370651-000	SCREW, HEX HD, LOCKING	
28	2	2	2	2	2	2	370521-003	WASHER FLAT	
29	2	2	2	2	2	2	370488-303	STANDOFF HEX	
30	4	4	4	4	4	4	370036-708	SCREW, PAN HD LOCKING 10-32 X 1/2	
31	7	7	7	7	7	7	370717-006	CLAMP-CABLE, PUSH MOUNT	
32	7	7	7	7	7	7	370716-003	SPACER-CABLE	
33									
34	8	8	8	8	8	8	370036-410	SCREW, PAN HD PHIL REC LOCKING	
35	8	8	8	8	8	8	370027-400	NUT, LOCKING	
36	2	2	2	2	2	2	370574-004	CABLE, CLAMP	
37	2	2	2	2	2	2	370651-003	SCREW HEX HD LOCKING	
38	1	1	1	1	1	1	211718-000	CABLE, R/D INTERFACE	W23

790496-03

Item No.	Quantity Required						Part No.	Nomenclature or Description	Reference Designation
	-005	-004	-003	-002	-001	-000			
39	4	4	4	4	4	4	370045-714	SCREW, SOCKET HD CAP	
40	8	8	8	8	8	8	370002-400	WASHER, FLAT	

790496-03

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**REVISIONS**

REV	DESCRIPTION	DRFTG	APPVD	DATE
01	RELEASE PER DRO 282-79		EB	8/22/79
02	INCRP DCO 10038	FC/KW	mp EB	1/31/80
03	CODE 10 REL W/O CHANGES PER DCO 10499	LM	EB	4/19/80
04	INCRP DCO 10413	LM	EB	4/25/80

<b>APPLICATION</b>	
NEXT ASSY	MODEL
	NTP

TABULATION	
DASH NO.	DESCRIPTION
-000	9 TRK NRZI 100V
-001	9 TRK NRZI 115V
-002	9 TRK NRZI 230V
-003	7 TRK NRZI 100V
-004	7 TRK NRZI 115V
-005	7 TRK NRZI 230V
-006	9 TRK PE 100V
-007	9 TRK PE 115V
-008	9 TRK PE 230V

1. REFER TO MINI TAPE TRANSPORT OPTION INSTALLATION DRAWING 190325.  
NOTE: UNLESS OTHERWISE SPECIFIED.

DRAWN	F. Clark	5-31-79	 <b>PERTEC COMPUTER CORPORATION</b> DATA SYSTEMS OPERATIONS DIVISION
CHECK	TL ROQUEMONT	8-15-79	
APPR	R. Schunke	8-17-79	
RELEASE	F. Clark	8/22/79	
UNLESS OTHERWISE SPECIFIED 1 TOLERANCES .xx ±.03 ANGULAR .xxx ±.010 ±0°30' 2 REMOVE ALL BURRS 3 BREAK ALL SHARP EDGES .010 APPROX 4 MACH SURFACES 125 ✓ OR BETTER 5 INTERPRET DWG PER ANS Y14 6 DIM ARE IN INCHES			TITLE MINI TAPE TRANSPORT OPTION KIT #1
CODE IDENT. NO.	SIZE	DWG NO.	REV.
D C CODE 10	<b>A</b>	211680	<b>04</b>
SCALE	DO NOT SCALE DWG	SHEET 1	OF 5



## MATERIAL LIST

Sheet 2 of ML Dwg. No. 211680 Rev. 04

Item No.	Quantity Required					Part No.	Nomenclature or Description	Reference Designation
	-005	-004	-003	-002	-001			
1	0	0	0	0	0	250081-000	MODIFICATION, TAPE TRANSPORT	
2	0	0	0	0	1	250081-001	MODIFICATION, TAPE TRANSPORT	
3	0	0	0	1	0	250081-002	MODIFICATION, TAPE TRANSPORT	
4	0	0	1	0	0	250081-003	MODIFICATION, TAPE TRANSPORT	
5	0	1	0	0	0	250081-004	MODIFICATION, TAPE TRANSPORT	
6	1	0	0	0	0	250081-005	MODIFICATION, TAPE TRANSPORT	
7	0	0	0	0	0	250081-006	MODIFICATION, TAPE TRANSPORT	
8	0	0	0	0	0	250081-007	MODIFICATION, TAPE TRANSPORT	
9	0	0	0	0	0	250081-008	MODIFICATION, TAPE TRANSPORT	
10	1	1	1	1	1	211749-002	CABLE, EXTENSION	W28
11	1	1	1	1	1	211361-000	CABLE, TAPE #6	W12
12	1	1	1	1	1	261070-000	PCBA, MTI	
13	0	0	0	1	1	290173-001	LABEL, TRANSPORT	
14	0	0	0	0	0	290173-002	LABEL, TRANSPORT	
15	1	1	1	0	0	290173-005	LABEL, TRANSPORT	
16	1	1	1	1	1	211716-000	CABLE M/T INTFC	W18
17	4	4	4	4	4	470099-001	TERMINATOR NETWORK	Z2, Z3, Z5, Z6
18	3	3	3	3	3	370027-700	NUT, LOCKING #10	
19	3	3	3	3	3	370002-700	WASHER, FLAT #10	

790406-03



## MATERIAL LIST

Sheet 3 of ML Dwg. No. 211680 Rev. 04

Item No.	Quantity Required					Part No.	Nomenclature or Description	Reference Designation
	-005	-004	-003	-002	-001			
20	7	7	7	7	7	370716-000	SPACER, CABLE	
21	7	7	7	7	7	370717-003	CABLE, CLAMP	
22	1	1	1	1	1	211360-000	CABLE, TAPE #1	W13
23	4	4	4	4	4	370036-410	SCREW, PAN HD PHIL REC LOCKING	
24	4	4	4	4	4	370027-400	NUT, LOCKING	
25	2	2	2	2	2	370574-004	CABLE, CLAMP	
26	2	2	2	2	2	370651-003	SCREW, HEX HD LOCKING	
27	4	4	4	4	4	420002-402	SPACER, FIBER	
28	2	2	2	2	2	370016-100	TIE, WRAP	
29	4	4	4	4	4	370002-400	WASHER, FLAT	

790406-03



## MATERIAL LIST

Sheet 4 of ML Dwg. No. 211680 Rev. 04

Item No.	Quantity Required			Part No.	Nomenclature or Description	Reference Designation
	-008	-007	-006			
1		0	0	250081-000	MODIFICATION, TAPE TRANSPORT	
2		0	0	250081-001	MODIFICATION, TAPE TRANSPORT	
3		0	0	250081-002	MODIFICATION, TAPE TRANSPORT	
4		0	0	250081-003	MODIFICATION, TAPE TRANSPORT	
5		0	0	250081-004	MODIFICATION, TAPE TRANSPORT	
6		0	0	250081-005	MODIFICATION, TAPE TRANSPORT	
7		0	0	250081-006	MODIFICATION, TAPE TRANSPORT	
8		0	1	250081-007	MODIFICATION, TAPE TRANSPORT	
9		1	0	250081-008	MODIFICATION, TAPE TRANSPORT	
10		1	1	211749-002	CABLE, EXTENSION	W28
11		1	1	211361-000	CABLE, TAPE #6	W12
12		1	1	261070-000	PCBA, MTI	
13		0	0	290173-001	LABEL, TRANSPORT	
14		1	1	290173-002	LABEL, TRANSPORT	
15		0	0	290173-005	LABEL, TRANSPORT	
16		1	1	211716-000	CABLE M/T INTFC	W18
17		4	4	470099-001	TERMINATOR NETWORK	Z2, Z3, Z5, Z6
18		3	3	370027-700	NUT, LOCKING #10	
19		3	3	370002-700	WASHER, FLAT #10	

790406-03



## MATERIAL LIST

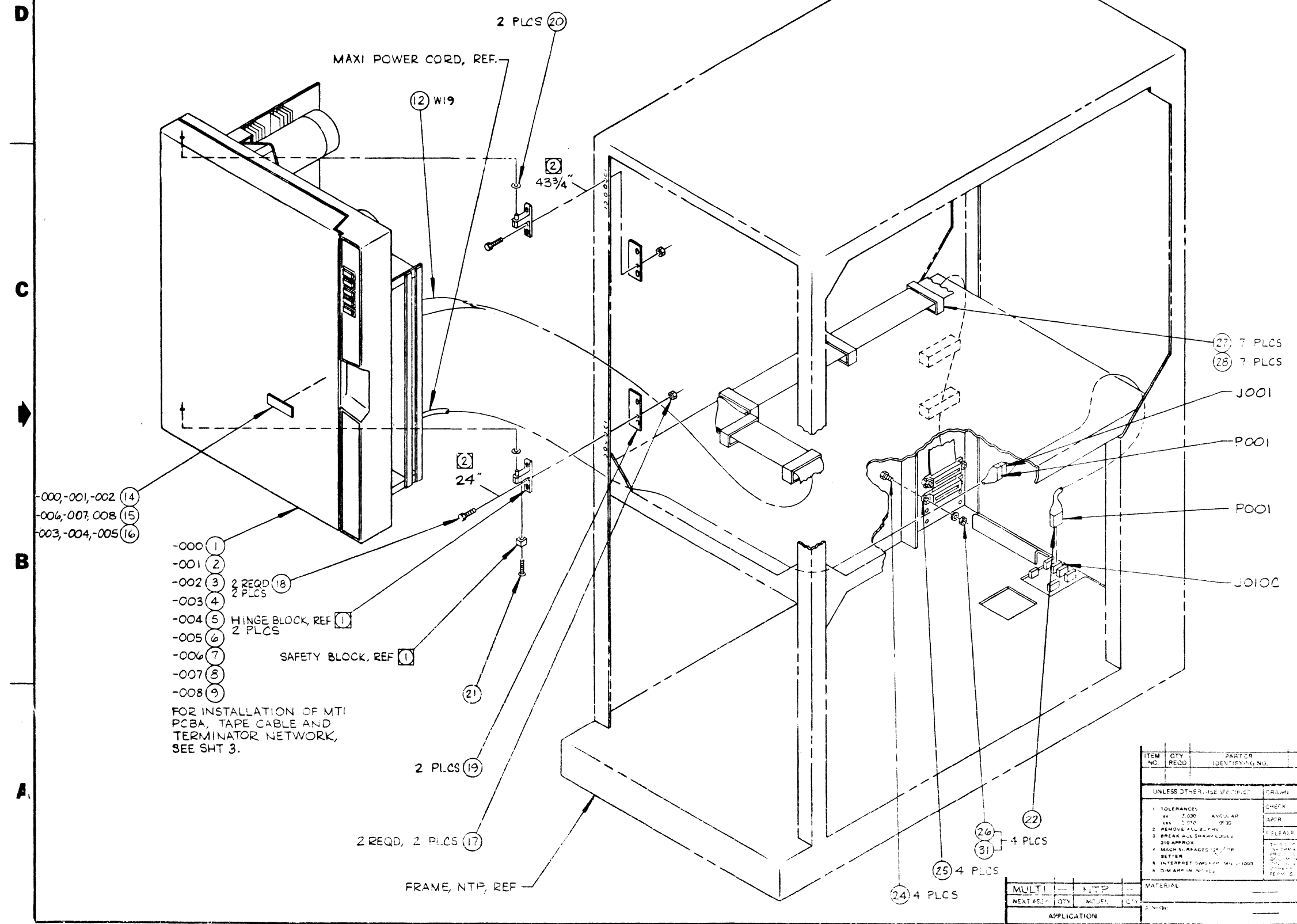
Sheet 5 of ML Dwg. No. 211680 Rev. 04

Item No.	Quantity Required			Part No.	Nomenclature or Description	Reference Designation
	-008	-007	-006			
20		7	7	370716-000	SPACER, CABLE	
21		7	7	370717-003	CABLE, CLAMP	
22		1	1	211360-000	CABLE, TAPE #1	W13
23		4	4	370036-410	SCREW, PAN HD PHIL REC LOCKING	
24		4	4	370027-400	NUT, LOCKING	
25		2	2	370574-004	CABLE, CLAMP	
26		2	2	370651-003	SCREW, HEX HD LOCKING	
27		4	4	420002-402	SPACER, FIBER	
28		2	2	370016-100	TIE, WRAP	
29		4	4	370002-400	WASHER, FLAT	

790406-03

8      7      6      5      4      3      2      1

REVISIONS				
SYM	DESCRIPTION	DRFTG	APPROVEC	DATE
01	RELEASE PER DRO			
02	INCORP DCO 0038			
03	CODE 10 REL W/O CHANGE PER DCO 10499			
04	INCORP DCO 10413			
05	INCORP DCO 10609			



- NOTE: UNLESS OTHERWISE SPECIFIED**
- ① PARTS SUPPLIED WITH MAXI XPRT.
  - ② MOUNTING HOLE LOCATIONS ARE MEASURED UPWARDS FROM THE BOTTOM HOLE TO THE NEAREST 1/16".
  - ③ REFERENCE CABLE DIAGRAM, CCU, 121199.
  - ④ CLAMP MUST BE INSTALLED OVER EXPOSED BRAID PORTION OF CABLE.
  - ⑤ WHEN CONNECTING A TAPE/DISK CABINET TO THE BSC CABINET, THE TERMINATORS ON ANY TAPE DRIVE IN THE BSC CABINET MUST BE REMOVED.

TABULATION	
DASH	DESCRIPTION
-000	9 TRK NRZI 100V
-001	9 TRK NRZI 115V
-002	9 TRK NRZI 230V
-003	7 TRK NRZI 100V
-004	7 TRK NRZI 115V
-005	7 TRK NRZI 230V
-006	9 TRK PE 100V
-007	9 TRK PE 115V
-008	9 TRK PE 230V

- 000 ①
- 001 ②
- 002 ③ 2 REQD ⑱
- 003 ④ 2 PLCS
- 004 ⑤ HINGE BLOCK, REF ①
- 005 ⑥ 2 PLCS
- 006 ⑦ SAFETY BLOCK, REF ①
- 007 ⑧
- 008 ⑨

FOR INSTALLATION OF MTI PCBA, TAPE CABLE AND TERMINATOR NETWORK, SEE SHT 3.

ITEM NO.	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION										
MATERIAL LIST													
UNLESS OTHERWISE SPECIFIED: DRAWN BY: <i>[Signature]</i> DATE: <i>[Date]</i>													
1		TOLERANCES: ANGULAR 0.30	CHECK: <i>[Signature]</i>										
2		REMOVE ALL BURRS	APR: <i>[Signature]</i>										
3		BREAK ALL SHARP EDGES 3/16 APPROX	RELEASE: <i>[Signature]</i>										
4		MACH SURFACES TO FINISH											
5		BETTER											
6		INTERPRET DIMENSIONS TO 1000											
7		DIM ARE IN INCHES											
<table border="1" style="width: 100%;"> <tr> <td>MATERIAL</td> <td>DATE</td> <td>SIZE</td> <td>DWG NO</td> <td>REV</td> </tr> <tr> <td></td> <td></td> <td>D</td> <td>211683</td> <td>05</td> </tr> </table>				MATERIAL	DATE	SIZE	DWG NO	REV			D	211683	05
MATERIAL	DATE	SIZE	DWG NO	REV									
		D	211683	05									
<table border="1" style="width: 100%;"> <tr> <td>MULTI</td> <td>APP</td> <td>DATE</td> <td>BY</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>				MULTI	APP	DATE	BY						
MULTI	APP	DATE	BY										
<table border="1" style="width: 100%;"> <tr> <td>APPLICATION</td> <td>SCALE: 1/4" = 1" DO NOT SCALE DWG</td> <td>SHEET</td> <td>OF 8</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>				APPLICATION	SCALE: 1/4" = 1" DO NOT SCALE DWG	SHEET	OF 8						
APPLICATION	SCALE: 1/4" = 1" DO NOT SCALE DWG	SHEET	OF 8										

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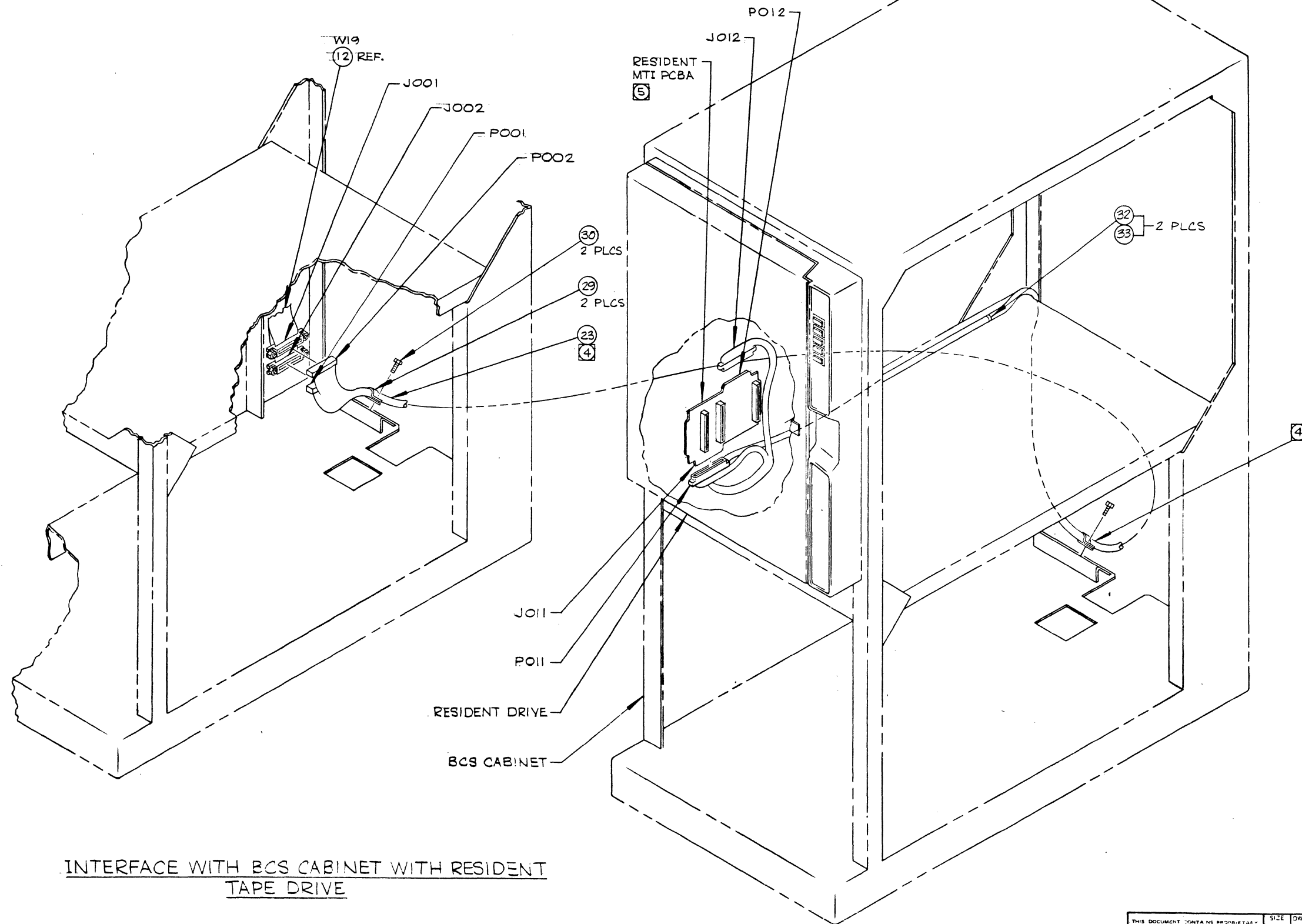
1

D

C

B

A



INTERFACE WITH BCS CABINET WITH RESIDENT  
TAPE DRIVE

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	D	211683	05
DO NOT SCALE DWG		SHEET	2



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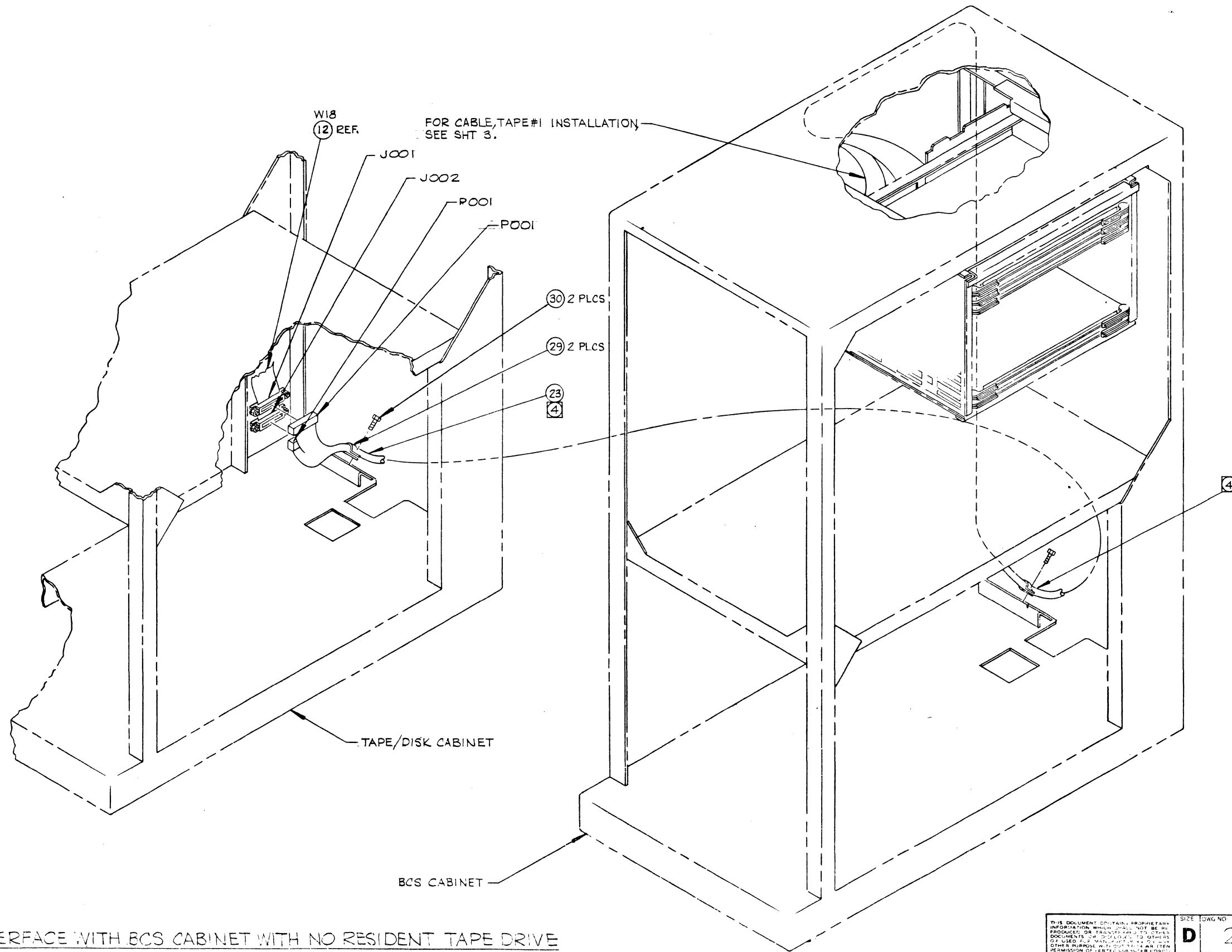
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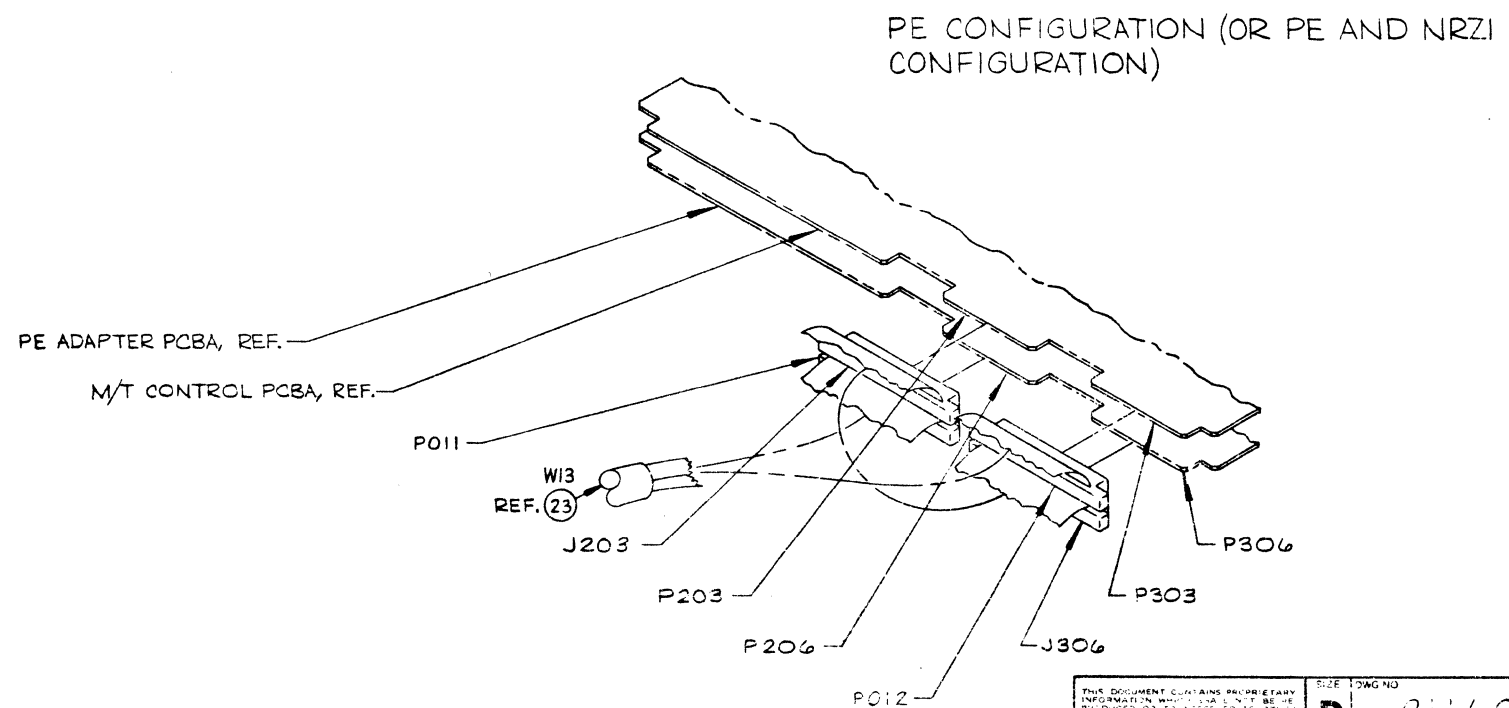
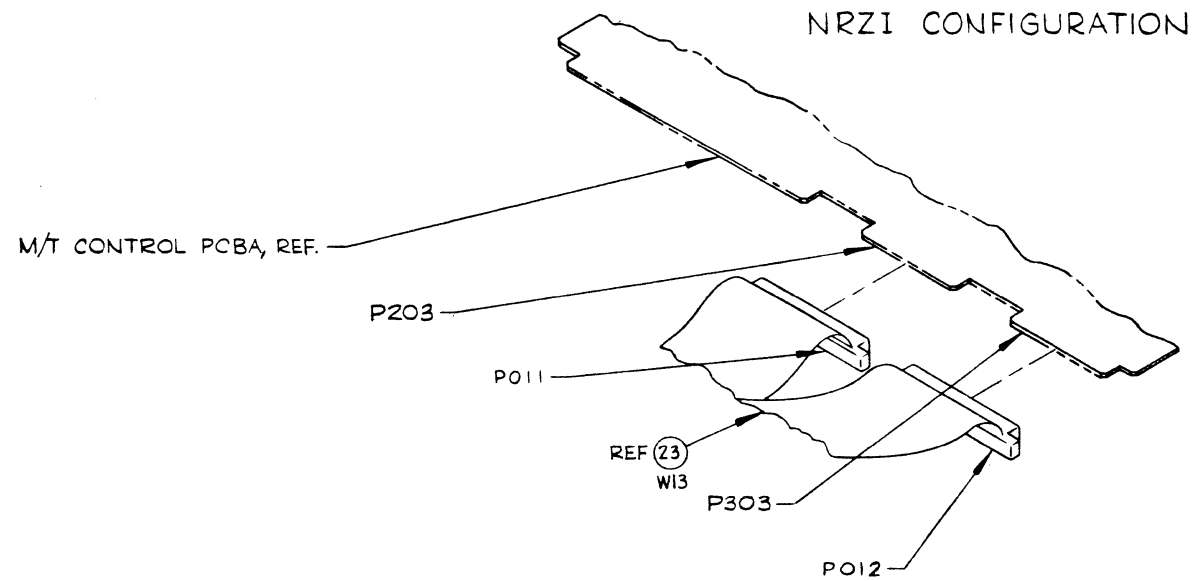
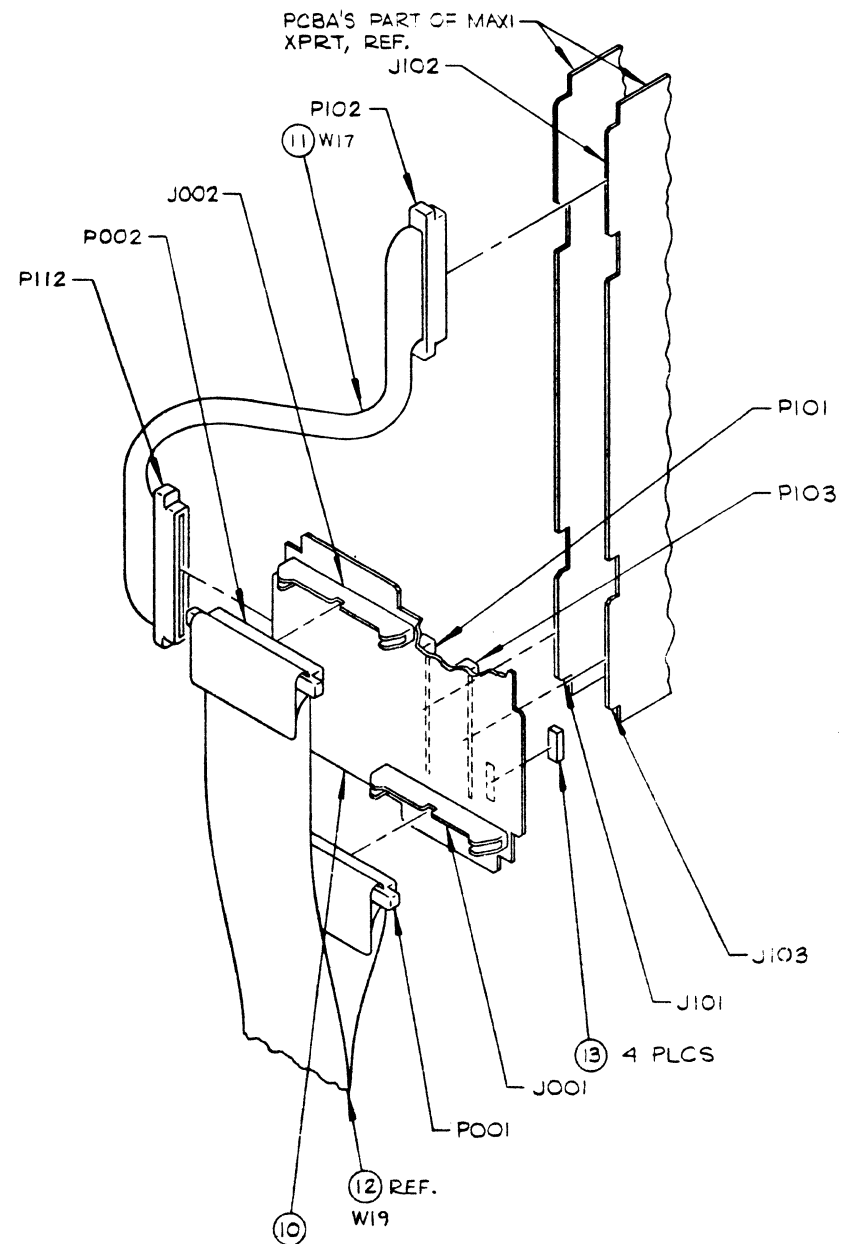
INTERFACE WITH BCS CABINET WITH NO RESIDENT TAPE DRIVE

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	D	211633	05
DO NOT SCALE DRAW		SHEET	

MTI PCBA, TAPE CABLE AND TERMINATOR NETWORK INSTALLATION

CABLE, TAPE #1 INSTALLATION

NOTE: CARD CAGE AND FRAME NOT SHOWN, DELETED FOR CLARITY.



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	D 211683	05
DO NOT SCALE DWG	SHEET	4

D

C

B

A

D

C

B

A



MATERIAL LIST

Sheet 5 of 8 ML Dwg. No. 211683 Rev. 05

Item No.	Quantity Required						Part No.	Nomenclature or Description	Reference Designation
	-005	-004	-003	-002	-001	-000			
1	0	0	0	0	0	1	250114-000	MODIFICATION, MAXI TAPE XPRT	
2	0	0	0	0	1	0	250114-001	MODIFICATION, MAXI TAPE XPRT	
3	0	0	0	1	0	0	250114-002	MODIFICATION, MAXI TAPE XPRT	
4	0	0	1	0	0	0	250114-003	MODIFICATION, MAXI TAPE XPRT	
5	0	1	0	0	0	0	250114-004	MODIFICATION, MAXI TAPE XPRT	
6	1	0	0	0	0	0	250114-005	MODIFICATION, MAXI TAPE XPRT	
7	0	0	0	0	0	0	250114-006	MODIFICATION, MAXI TAPE XPRT	
8	0	0	0	0	0	0	250114-007	MODIFICATION, MAXI TAPE XPRT	
9	0	0	0	0	0	0	250114-008	MODIFICATION, MAXI TAPE XPRT	
10	1	1	1	1	1	1	261070-000	PCBA, MTI	
11	1	1	1	1	1	1	211352-000	CABLE, TAPE	W17
12	1	1	1	1	1	1	211715-000	CABLE, M/T INTFC	W19
13	4	4	4	4	4	4	470099-001	NETWORK, TERMINATOR	Z2,3,5,6
14	0	0	0	1	1	1	290173-001	LABEL, TRANSPORT	
15	0	0	0	0	0	0	290173-002	LABEL, TRANSPORT	
16	1	1	1	0	0	0	290173-005	LABEL, TRANSPORT	
17	4	4	4	4	4	4	370027-700	NUT, LOCKING #10	
18	4	4	4	4	4	4	370651-005	SCREW, HEX HD 10-32 X 5/8	
19	2	2	2	2	2	2	242066-000	BACKING PLATE	

790406-01



MATERIAL LIST

Sheet 6 of ML Dwg. No. 211683 Rev. 05

Item No.	Quantity Required						Part No.	Nomenclature or Description	Reference Designation
	-005	-004	-003	-002	-001	-000			
20	2	2	2	2	2	2	370521-006	WASHER, FLAT	
21	1	1	1	1	1	1	370004-409	SCREW, FLAT HD, 100 DEG PHILLIPS	
22	1	1	1	1	1	1	211749-002	CABLE, EXTENSION	(W28)
23	1	1	1	1	1	1	211360-000	CABLE, TAPE #1	(W13)
24	4	4	4	4	4	4	370036-410	SCREW, PAN HD PHIL REC LOCKING	
25	4	4	4	4	4	4	420002-402	SPACER, FIBER	
26	4	4	4	4	4	4	370027-400	NUT, LOCKING	
27	7	7	7	7	7	7	370717-003	CABLE CLAMP	
28	7	7	7	7	7	7	370716-003	SPACER, CABLE	
29	2	2	2	2	2	2	370574-004	CABLE CLAMP	
30	2	2	2	2	2	2	370651-003	SCREW, HEX HD, LOCKING	
31	4	4	4	4	4	4	370002-400	WASHER, FLAT	
32	2	2	2	2	2	2	370016-100	TIE WRAP	
33	2	2	2	2	2	2	370643-000	MOUNT, CABLE TIE PUSH IN	

790406-03



MATERIAL LIST

Sheet 7 of ML Dwg. No. 211683 Rev. 05

Item No.	Quantity Required			Part No.	Nomenclature or Description	Reference Designation
	-008	-007	-006			
1	0	0	0	250114-000	MODIFICATION, MAXI TAPE XPRT	
2	0	0	0	250114-001	MODIFICATION, MAXI TAPE XPRT	
3	0	0	0	250114-002	MODIFICATION, MAXI TAPE XPRT	
4	0	0	0	250114-003	MODIFICATION, MAXI TAPE XPRT	
5	0	0	0	250114-004	MODIFICATION, MAXI TAPE XPRT	
6	0	0	0	250114-005	MODIFICATION, MAXI TAPE XPRT	
7	0	0	1	250114-006	MODIFICATION, MAXI TAPE XPRT	
8	0	1	0	250114-007	MODIFICATION, MAXI TAPE XPRT	
9	1	0	0	250114-008	MODIFICATION, MAXI TAPE XPRT	
10	1	1	1	261070-000	PCBA, MTI	
11	1	1	1	211352-000	CABLE, TAPE	W17
12	1	1	1	211715-000	CABLE, M/T INTFC	W19
13	4	4	4	470099-001	NETWORK, TERMINATOR	Z2,3,5,6
14	0	0	0	290173-001	LABEL, TRANSPORT	
15	1	1	1	290173-002	LABEL, TRANSPORT	
16	0	0	0	290173-005	LABEL, TRANSPORT	
17	4	4	4	370027-700	NUT, LOCKING #10	
18	4	4	4	370651-005	SCREW, HEX HD 10-32 X 5/8	
19	2	2	2	242066-000	BACKING PLATE	

790406-03



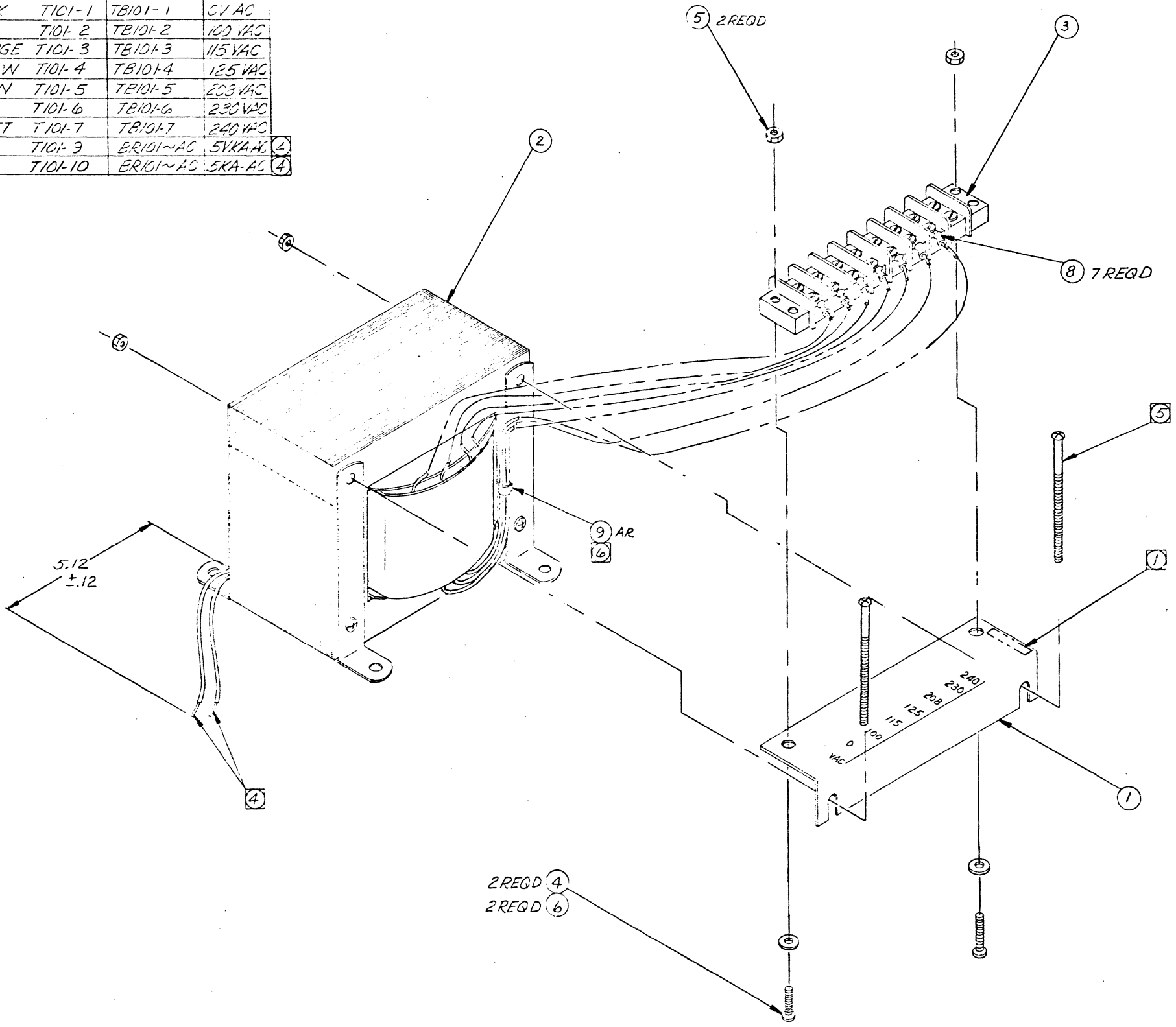
MATERIAL LIST

Sheet 8 of ML Dwg. No. 211683 Rev. 05

Item No.	Quantity Required			Part No.	Nomenclature or Description	Reference Designation
	-008	-007	-006			
20	2	2	2	370521-006	WASHER, FLAT	
21	1	1	1	370004-409	SCREW, FLAT HD, 100 DEG PHILLIPS	
22	1	1	1	211749-002	CABLE, EXTENSION	(W28)
23	1	1	1	211360-000	CABLE, TAPE #1	(W13)
24	4	4	4	370036-410	SCREW, PAN HD PHIL REC LOCKING	
25	4	4	4	420002-402	SPACER, FIBER	
26	4	4	4	370027-400	NUT, LOCKING	
27	7	7	7	370717-003	CABLE CLAMP	
28	7	7	7	370716-003	SPACER, CABLE	
29	2	2	2	370574-004	CABLE CLAMP	
30	2	2	2	370651-003	SCREW, HEX HD, LOCKING	
31	4	4	4	370002-400	WASHER, FLAT	
32	2	2	2	370016-100	TIE WRAP	
33	2	2	2	370643-000	MOUNT, CABLE TIE PUSH IN	

FROM TRANSFORMER COLOR	TO TB101 PIN	SIGNAL
BLACK T101-1	TB101-1	CV AC
RED T101-2	TB101-2	100 VAC
ORANGE T101-3	TB101-3	115 VAC
YELLOW T101-4	TB101-4	125 VAC
GREEN T101-5	TB101-5	203 VAC
BLUE T101-6	TB101-6	230 VAC
VIOLET T101-7	TB101-7	240 VAC
RED T101-9	ER101-AC	5VKAAC 2
RED T101-10	ER101-AC	5KA-AC 4

SYM	DESCRIPTION	DRAFTG	DATE
01	RELEASE PER DCO 1007-79	TA	8/21/79
02	CODE 05 RELEASE WITH CHANGES, PER ENG INPUT REL PER DCO 560-79	TA	RES 8/21/79
03	INCCORP DCO 10250	TA	7/25/79
04	CODE 10 REL W/O CHANGE PER DCO 10894	NIVM	2/8/79



NOTE : UNLESS OTHERWISE SPECIFIED

- 1 MARK ASSEMBLY NUMBER PER SPECIFICATION 100034 (RUBBER STAMP).
- 2. REFERENCE ELECTROMECHANICAL WORKMANSHIP STANDARD 170475.
- 3. FOR SCHEMATIC SEE 121190.
- 4 STRIP INSULATION FROM WIRES NOTED .375 IN. AND TIN.
- 5 LOOSEN TOP TWO SCREWS OF TRANSFORMER AND INSTALL ITEM 1 AS SHOWN.
- 6 ROUTE WIRES FROM TRANSFORMER TO THE SIDE OF TRANSFORMER WINDINGS AS SHOWN (SERVICE NOT REQUIRED).

2REQD 4  
2REQD 6

		NTP	
		XL40	
		XL20	
211659			
NEXT ASSY	QTY	MODEL	QTY
APPLICATION			

ITEM NO.	QTY REQD	PART OR IDENTIFYING NO	NCV ENCLATURE OR DESCRIPTION	DISTRIBUTION CLASS
MATERIAL LIST				
UNLESS OTHERWISE SPECIFIED				
1	TOLERANCES	DRAWN	DATE	
	XX 2.000 ANGULAR	CHECK	8/21/79	
	XXX 2.010 0°-30°	APPR		
2	REMOVE ALL BURRS	RELEASE	8/21/79	
3	BREAK ALL SHARP EDGES	THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR TRANSMITTED TO OTHERS OR USED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF PERITE BUSINESS SYSTEMS		
4	MACH SURFACES 125°	MATERIAL		
5	INTERPRET DNG PER MIL-D-1000	FINISH		
6	DIM ARE IN INCHES	SCALE		
<b>BUSINESS SYSTEMS</b> TRANSFORMER ASSY, POWER SUPPLY				REV
CODE IDENT NO D CODE 10				SIZE <b>D</b>
DWG NO <b>211689</b>				REV <b>04</b>
DO NOT SCALE DNG				SHEET 1 OF 2



PERTEC  
COMPUTER  
CORPORATION

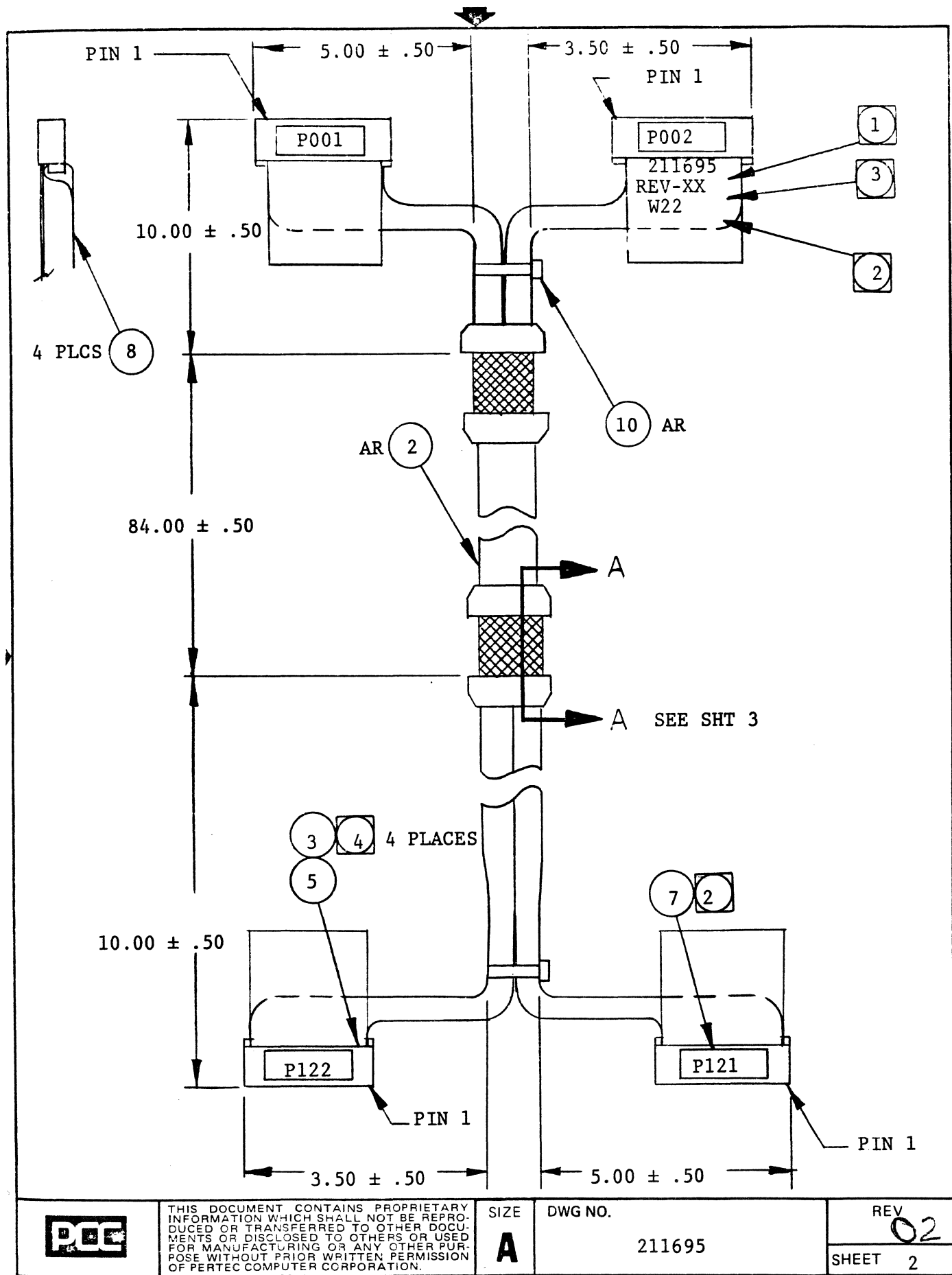
MATERIAL LIST

Sheet 2 of 2

ML  
Dwg. No. 211689

Rev.  
04

Item No.	Quantity Required					Part No.	Nomenclature or Description	Reference Designation
					-000			
1					1	242068 -000	BRACKET, TERMINAL BLOCK	
2					1	490108-001	TRANSFORMER	T101
3					1	320384-001	TERMINAL BLOCK	TB101
4					2	370036-610	SCREW, PAN HEAD, LOCKING	
5					2	370027-600	NUT, HEX MACHINE	
6					2	370002-600	WASHER, FLAT	
8					7	320005-614	TERMINAL , RING TONGUE	
9					AR	370016-XXX	TIE WRAP	



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APPLICATION	
NEXT ASSY	MODEL
	NTP

REVISIONS				
REV	DESCRIPTION	DRFTG	APPVD	DATE
01	RELEASE PER DRO 8-22-79		EB	8/24/79
02	CODE 10 REL W/O CHANGES PER DCO 10499	LM	EB	4/9/80

- 4 INSTALL ITEM 5 AT P001 & P121 PIN 27 AND P002 & P122 PIN 18.
- 3 PERMANENTLY MARK "REV" AND APPROPRIATE REVISION LEVEL USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPEC 100034.
- 2 PERMANENTLY MARK REF DESIGNATION USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPEC 100034.
- 1 PERMANENTLY MARK ASSEMBLY NUMBER USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPEC 100034.

NOTE: UNLESS OTHERWISE SPECIFIED.

DRAWN	MURRAY/kw	8-13-79
CHECK	TL ROQUEMONT	8-22-79
APPR	R. Schmitt	8-23-79
RELEASE	G. Brubaker	8/24/79

**PCC PERTEC COMPUTER CORPORATION**  
DATA SYSTEMS OPERATIONS DIVISION

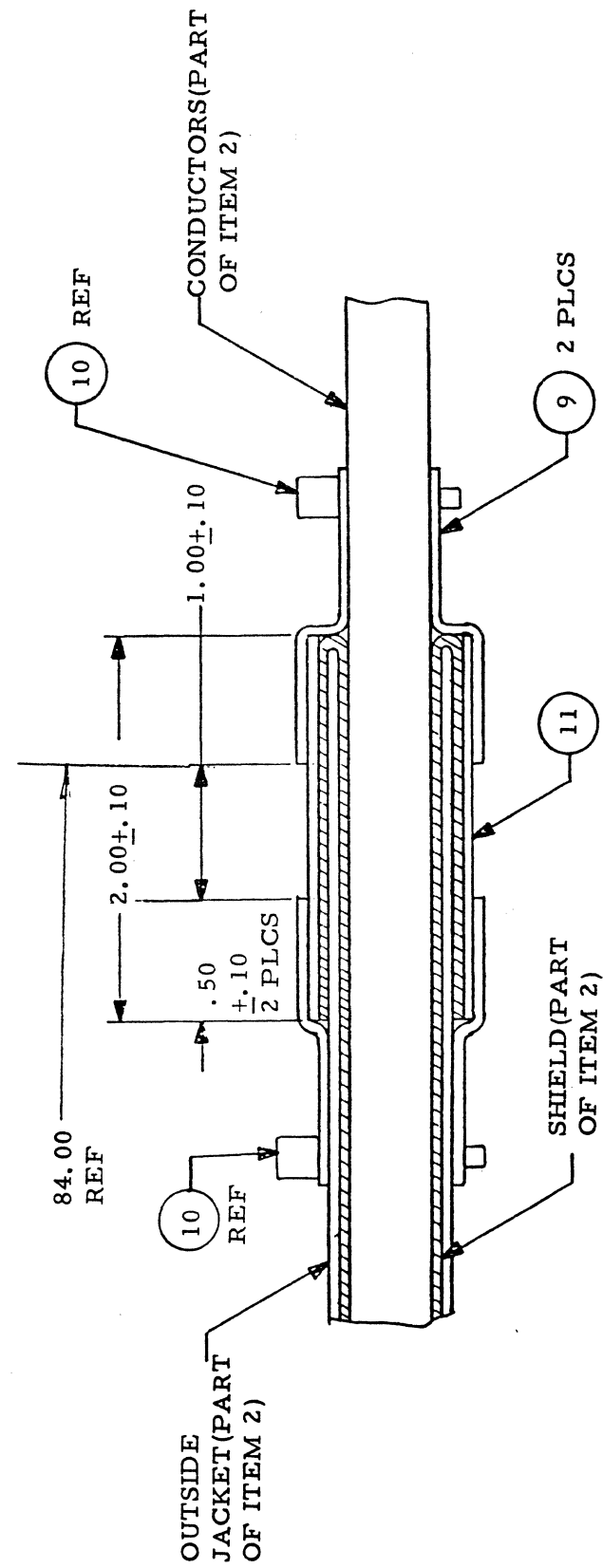
TITLE  
CABLE, RIGID DISK #1 (W22)

- UNLESS OTHERWISE SPECIFIED
- 1 TOLERANCES  
.xx ±.03 ANGULAR  
.xxx ±.010 ±0°30'
  - 2 REMOVE ALL BURRS
  - 3 BREAK ALL SHARP EDGES .010 APPROX
  - 4 MACH SURFACES 125 ✓ OR BETTER
  - 5 INTERPRET DWG PER ANS Y14
  - 6 DIM ARE IN INCHES

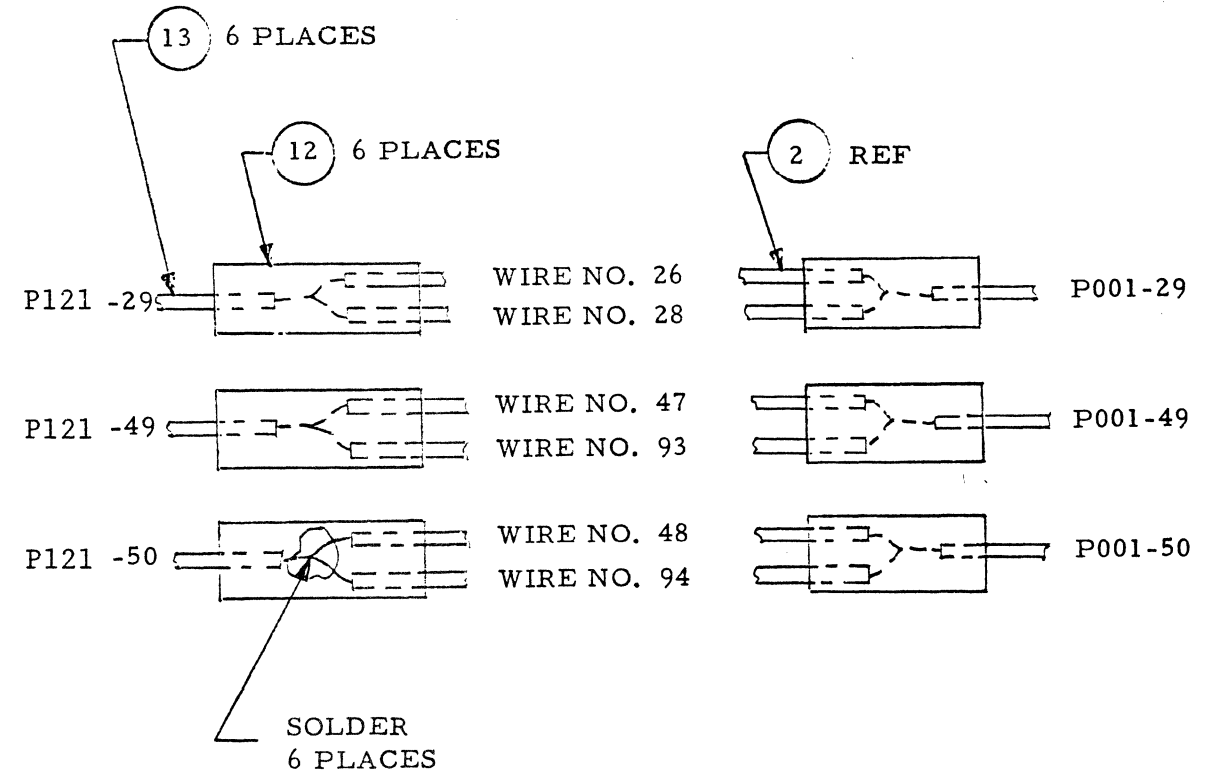
CODE IDENT. NO.	SIZE	DWG NO.	REV.
D C CODE	A	211695	02
SCALE	DO NOT SCALE DWG	SHEET 1	OF 10

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR TRANSFERRED TO OTHER DOCUMENTS OR DISCLOSED TO OTHERS OR USED FOR MANUFACTURING OR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN PERMISSION OF PERTEC COMPUTER CORPORATION.

SIZE	DWG NO.	REV
A	211695	02
		SHEET 2



SECTION A-A  
SEE SHEET 2



DETAIL B

**BUSINESS SYSTEMS**

SIZE  
**A**

DWG NO.  
211695

REV  
**02**  
SHEET 3

**BUSINESS SYSTEMS**

SIZE  
**A**

DWG NO.  
211695

REV  
**02**  
SHEET 4

PERTEC COMPUTER CORPORATION		MATERIAL LIST		Sheet 5 of	ML Dwg. No. 211695	Rev. 02
Item No.	Quantity Required	Part No.	Manufacturer or Description	Reference Designation		
1						
2		AR 510132-001	CABLE, 28AWG TWISTED PAIR	P001,P002,P121,P122		
3		4 320258-011	CONNECTOR, SOCKET, IDC			
4						
5		4 320302-000	KEY, SOCKET CONNECTOR			
6						
7		AR 700027-000	TAPE, IDENTIFICATION (BLACK)			
8		4 340022-004	PULL TAB, RIBBON CABLE CONN			
9		AR 420001-750	TUBING, SHRINK			
10		AR 370016-100	TIE WRAP			
11		AR 510093-010	BRAID			
12		AR 420001-125	TUBING, SHRINK			
13		AR 510025-928	WIRE, STRANDED, UL 1061			

790406 03

### PERTEC BUSINESS SYSTEMS DIVISION ENGINEERING WIRE LIST

WIRE/COMP NO.	FROM		TO		WIRE ITEM NO.	SIGNAL	COLOR	REMARKS
	REF. DES.	TERM ITEM/TYPE	REF. DES.	TERM ITEM/TYPE				
1	P121-6(B3)	1	P001-6	3	2	LEEX	WHITE	TWISTED PAIR
2	P121-2(B1)		P001-2			EEXR		
3	P121-7(A4)		P001-7			LREX		
4	P121-5(A3)		P001-5			REXR		
5	P121-10(B5)		P001-10			LWEX		
6	P121-4(B2)		P001-4			WEXR		
7	P121-12(B6)		P001-12			LHA2		
8	P121-8(B4)		P001-8			HA2R		
9	P121-13(A7)		P001-13			LHA3		
10	P121-9(A5)		P001-9			HA3R		
11	P121-15(A8)		P001-15			LHA1		
12	P121-11(A6)		P001-11			HA1R		
13	P121-16(B8)		P001-16			LWD		
14	P121-14(B7)		P001-14			WDR		
15	P121-18(B9)		P001-18			LAEU		
16	P121-19(A10)		P001-19			LWP1		
17	P121-21(A11)		P001-21			LCA8		
18	P121-17(A9)		P001-17			CABR		
19	P121-22(B11)		P001-22			LCA9		
20	P121-20(B10)	1	P001-20	3	2	CA9R	WHITE	TWISTED PAIR

T=TIN WIRE  
S6=STRIP WIRE .375

DWG NO 211695 REV 02  
SHEET 6

### PERTEC BUSINESS SYSTEMS DIVISION ENGINEERING WIRE LIST

WIRE/COMP NO.	FROM		TO		WIRE ITEM NO.	SIGNAL	COLOR	REMARKS
	REF. DES.	TERM ITEM/TYPE	REF. DES.	TERM ITEM/TYPE				
21	P121-24(B12)	1	P001-24	3	2	LCA6	WHITE	TWISTED PAIR
22	P121-23(A12)		P001-23			CA6R		
23	P121-25(A13)		P001-25			LCA7		
24	P121-26(B13)		P001-26			CA7R		
25	P121-28(B14)		P001-28			LCA5		
26	P121-29(A15)		P001-29			CASR		
27	P121-31(A16)		P001-31			LRIC		
28	P121-29(A15)		P001-29			RICR		
29	P121-33(A17)		P001-33			LCA5		
30	P121-30(B15)		P001-30			CA5R		
31	P121-34(B17)		P001-34			LCA4		
32	P121-32(B16)		P001-32			CA4R		
33	P121-36(B18)		P001-36			LCA3		
34	P121-35(A18)		P001-35			CA3R		
35	P121-37(A19)		P001-37			LCA2		
36	P121-38(B19)		P001-38			CA2R		
37	P121-39(A20)		P001-39			LCA1		
38	P121-41(A21)		P001-41			CA1R		
39	P121-30(B20)		P001-40			LUS4		
40	P121-44(B22)	1	P001-44	3	2	US4R	WHITE	TWISTED PAIR

T=TIN WIRE  
S6=STRIP WIRE .375

DWG NO 211695 REV 02  
SHEET 7

### PERTEC BUSINESS SYSTEMS DIVISION ENGINEERING WIRE LIST

WIRE/COMP NO.	FROM		TO		WIRE ITEM NO.	SIGNAL	COLOR	REMARKS
	REF. DES.	TERM ITEM/TYPE	REF. DES.	TERM ITEM/TYPE				
41	P121-42(B21)	1	P001-42	3	2	LUS3	WHITE	TWISTED PAIR
42	P121-46(B23)		P001-46			US3R		
43	P121-43(A22)		P001-43			LUS2		
44	P121-47(A24)		P001-47			US2R		
45	P121-45(A23)		P001-45			LUS1		
46	P121-48(B24)		P001-48			US1R		
47	P121-49(A25)		P001-49			+ 5V		
48	P121-50(B25)		P001-50			5V		
49	P122-6(B3)		P002-6			LBS1		
50	P122-4(B2)		P002-4			BS1R		
51	P122-8(B4)		P002-8			BS2R		
52	P122-5(A3)		P002-5			LBS3		
53	P122-9(A5)		P002-9			BS3R		
54	P122-7(A4)		P002-7			LBS4		
55	P122-11(A6)		P002-11			BS4R		
56	P122-10(B5)		P002-10			LQPD		
57	P122-14(B7)		P002-14			QPDR		
58	P122-16(B8)		P002-16			LQDR		
59	P122-15(A8)		P002-15			RDXR		
60	P122-19(A10)	1	P002-19	3	2	RDXR	WHITE	TWISTED PAIR

T=TIN WIRE  
S6=STRIP WIRE .375

DWG NO 211695 REV 02  
SHEET 8

### PERTEC BUSINESS SYSTEMS DIVISION ENGINEERING WIRE LIST

WIRE/COMP NO.	FROM		TO		WIRE ITEM NO.	SIGNAL	COLOR	REMARKS
	REF. DES.	TERM ITEM/TYPE	REF. DES.	TERM ITEM/TYPE				
61	P122-17(A9)	1	P002-17	3	2	LRCX	WHITE	TWISTED PAIR
62	P122-20(B10)		P002-20			RCXR		
63	P122-23(A12)		P002-23			LFPX		
64	P122-21(A11)		P002-21			FPXR		
65	P122-24(B12)		P002-24			LMDX		
66	P122-22(B11)		P002-22			MDXR		
67	P122-26(B13)		P002-26			LDPD		
68	P122-25(A13)		P002-25			DPDR		
69	P122-30(B15)		P002-30			LICA		
70	P122-28(B14)		P002-28			ICAR		
71	P122-33(A17)		P002-33			LRDY		
72	P122-29(A15)		P002-29			RDYR		
73	P122-35(A18)		P002-35			LDTD		
74	P122-31(A16)		P002-31			DTDR		
75	P122-28(B19)		P002-38			LISA1		
76	P122-34(B17)		P002-34			SA1R		
77	P122-39(A20)		P002-39			LISA0		
78	P122-36(B18)		P002-36			SA0R		
79	P122-41(A21)		P002-41			LISA2		
80	P122-37(A19)	1	P002-37	3	2	SA2R	WHITE	TWISTED PAIR

T=TIN WIRE  
S6=STRIP WIRE .375

DWG NO 211695 REV 02  
SHEET 9

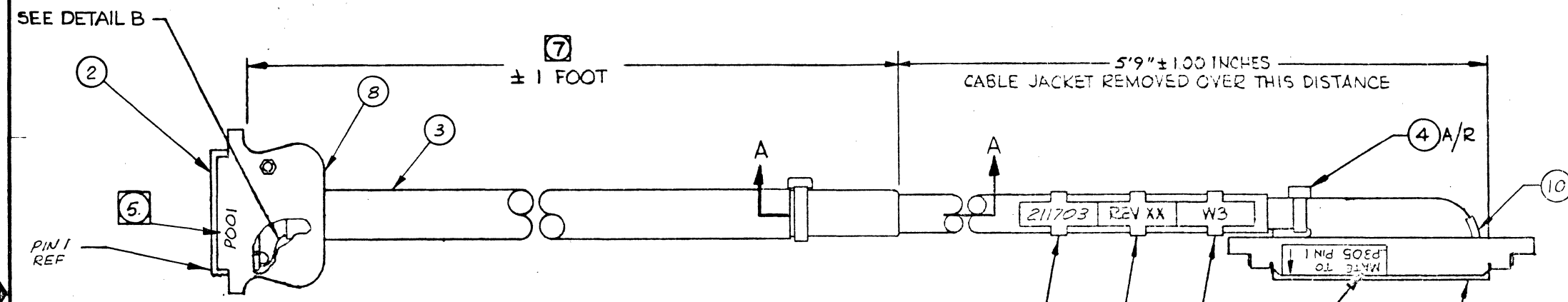
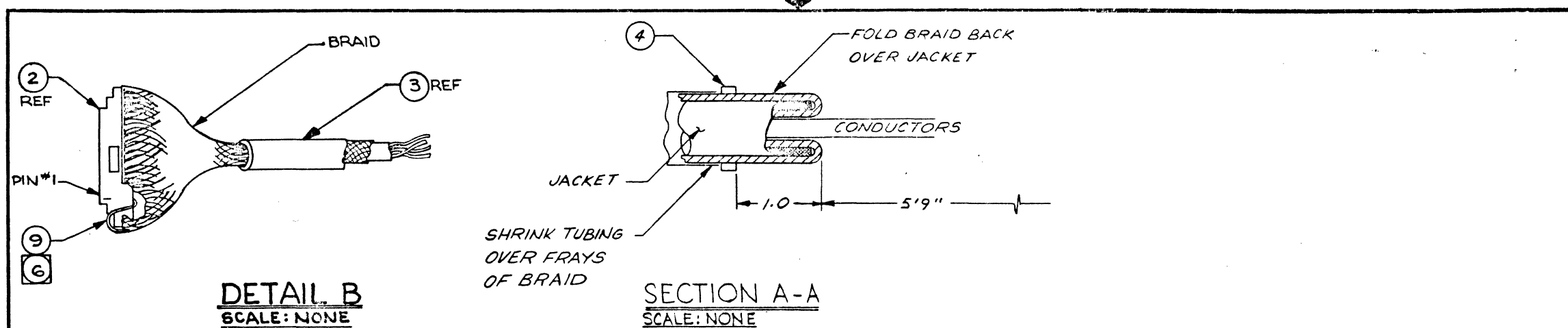
### PERTEC BUSINESS SYSTEMS DIVISION ENGINEERING WIRE LIST

WIRE/COMP NO.	FROM		TO		WIRE ITEM NO.	SIGNAL	COLOR	REMARKS
	REF. DES.	TERM ITEM/TYPE	REF. DES.	TERM ITEM/TYPE				
81	P122-42(B21)	1	P002-42	3	2	LISA3	WHITE	TWISTED PAIR
82	P122-40(B20)		P002-40			SA3R		
83	P122-44(B22)		P002-44			LISA4		
84	P122-43(A22)		P002-43			SA4R		
85	P122-45(A23)		P002-45			LISA5		
86	P122-46(B23)		P002-46			SA5R		
87	P122-47(A24)		P002-47			LIPX		
88	P122-48(B24)		P002-48			IPXR		
89	P122-49(A25)		P002-49			LSPX		
90	P122-50(B25)		P002-50			SPXR		
91	P122-27(A14)		P002-27			SPARE		
92	P122-32(B16)		P002-32			SPARE		
93	P121-49		P001-49			+ 5V		
94	P121-50	1	P001-50	3	2	+ 5V	WHITE	TWISTED PAIR

T=TIN WIRE  
S6=STRIP WIRE .375

DWG NO 211695 REV 02  
SHEET 10





- 8 LOCATE CONNECTOR IDENT LABEL WHERE SHOWN WITH ARROW POINTING TO DESIGNATED PIN.
- 7 LENGTH OF CABLE IS DETERMINED BY THE DASH NO. THERE ARE 3 CABLES WITH LENGTHS OF 25 FEET (-025), 35 FEET (-035) AND 45 FEET (-045), MAXIMUM DESIGN LENGTH IS 50 FEET.
- 6 THE BRAID SHALL BE CONNECTED TO BOTH PIN 1 AND THE CONNECTOR WITH AS SHORT PIECE OF WIRE (ITEM 9) AS POSSIBLE. DRAW BRAID DOWN OVER CONNECTOR BODY AND SOLDER.
- 5 PERMANENTLY MARK CONNECTOR DESIGNATION SHOWN USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPEC 100034.
- 4 PERMANENTLY MARK PART NUMBER USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPEC 100034
- 3 PERMANENTLY MARK "REV" AND APPROPRIATE REVISION LEVEL USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPEC 100034.
- 2 PERMANENTLY MARK REFERENCE DESIGNATION USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPEC 100034.  
1. REFERENCE CABLE DIAGRAM, BCS, 121184

NOTE : UNLESS OTHERWISE SPECIFIED

DRAWN		B. [Signature]		FENTEC BUSINESS SYSTEMS DIVISION	
CHECK				TITLE	
APPR				CABLE, DATA COMM INTERFACE (HD)	
RELEASE				DOC IDENT NO	
				SIZE	
				DWG NO	
				REV	
				211703 05	
				SCALE	
				10	
				DO NOT SCALE DWG	
				1 SHEET OF 3	

SYMBOL	DESCRIPTION	DATE	BY	CHKD	APP'D	QTY	WEEK
05	CODE TO REL W/O CHANGE PER DCO 10499						
04	INCORP DCO 09704						
03	INCORP DCO 09433						
02	INCORP DCO 09332						
01	RELEASE PER DFO						



**PERTEC**  
COMPUTER  
CORPORATION

**MATERIAL LIST**

Sheet 2 of 3	ML Dwg. No. 211703	Rev. 05
--------------	--------------------	---------

Item No.	Quantity Required					Part No.	Nomenclature or Description	Reference Designation
					7			
1					1	320267-001	CONNECTOR	J305
2					1	320019-225	CONNECTOR	P001
3					AR	510124-000	CABLE, CONTROL/SIGNAL MULTI, CONNECTOR	28'
4					AR	370016-XXX	TIE WRAP	
5					3	420019-000	TIE, IDENTIFICATION	
6					3	740005-000	LABEL, SELF ADHESIVE	
7					1	241806-001	ADAPTER	J305
8					1	320053-002	HOOD, DATA PHONE	P001
9					AR	510025-924	WIRE, UL 1061 STRANDED VINYL	
10					AR	420001-125	TUBING, SHRINK	
11					1	410210-001	LABEL, SELF ADHESIVE	

790406-03

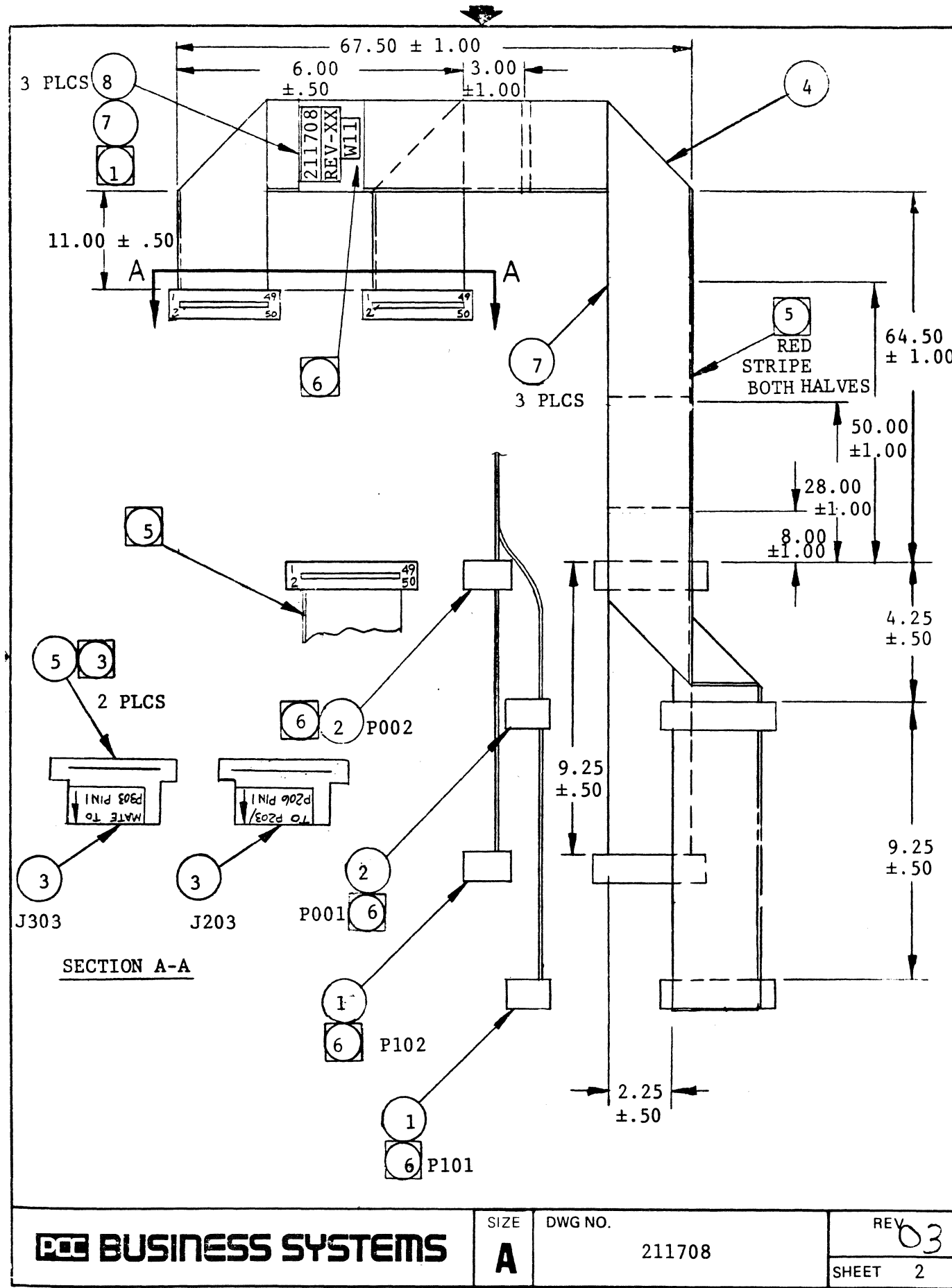


BUSINESS SYSTEMS DIVISION

**ENGINEERING WIRE LIST**

WIRE/ COMP NO.	FROM		TO		WIRE ITEM NO.	SIGNAL	COLOR	REMARKS
	REF. DES.	TERM ITEM/TYPE	REF. DES.	TERM ITEM/TYPE				
1	J305-A2	1	P001-7	2	3	GND		
2	J305-A14	1	P001-7	2	3	GND		
3	J305-A4	1	P001-2	2	3	@TDAT		
4	J305-A6	1	P001-3	2	3	@RDAT		
5	J305-A8	1	P001-4	2	3	@RQS		
6	J305-A10	1	P001-5	2	3	@CTS		
7	J305-A12	1	P001-6	2	3	@DSR		
8	J305-A16	1	P001-8	2	3	@LSD		
9	J305-B4	1	P001-15	2	3	@TCLK		
10	J305-B8	1	P001-17	2	3	@RCLK		
11	J305-B14	1	P001-20	2	3	@DTR		
12	J305-B16	1	P001-21	2	3	@SQD		
13	J305-B18	1	P001-22	2	3	@RING		
14	J305-B20	1	P001-23	2	3	@DSRS		
T=TIN WIRE S6=STRIP WIRE .375							DWG NO 211703	REV 05
							SHEET 3	

790242-02



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REVISIONS				
REV	DESCRIPTION	DRFTG	APPVD	DATE
01	RELEASE PER DRO 241-79		EB	8/1/79
02	INCRP DCO 09703	BM/KW	EB	2/29/80
03	CODE 10 REL W/O CHANGES PER DCO 10499	LM	EB	4/9/80

APPLICATION	
NEXT ASSY	MODEL
211650	NTP

- 6 PERMANENTLY MARK REF DESIGNATION USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPEC 10034.
- 5 RED STRIPE INDICATES PIN 1 OF CONNECTOR.
- 4 PERMANENTLY MARK CONNECTOR DESIGNATION SHOWN USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPEC 100034.
- 3 LOCATE CONNECTOR IDENT LABEL WHERE SHOWN WITH ARROW POINTING TO DESIGNATED PIN.
- 2 ATTACH CABLE HALVES USING ITEM 7 (TAPE) WHERE SHOWN.
- 1 PERMANENTLY MARK ASSEMBLY NUMBER, "REV" AND APPROPRIATE REVISION LEVEL APPROXIMATELY AS SHOWN USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPEC 100034.

NOTE: UNLESS OTHERWISE SPECIFIED.

DRAWN	MURRAY/kw	7-24-79
CHECK	J EVERS	7-27-79
APPR	SCHUMAKER	7-27-79
RELEASE	G BRINK	8/1/79

**PERTEC COMPUTER CORPORATION**  
 DATA SYSTEMS OPERATIONS DIVISION  
 TITLE  
 CABLE, MAG TAPE INTFC (W11)

- UNLESS OTHERWISE SPECIFIED
- 1 TOLERANCES  
 .xx ±.03 ANGULAR  
 .xxx ±.010 ±0°30'
  - 2 REMOVE ALL BURRS
  - 3 BREAK ALL SHARP EDGES  
 .010 APPROX
  - 4 MACH SURFACES 125 ✓ OR BETTER
  - 5 INTERPRET DWG PER ANS Y14
  - 6 DIM ARE IN INCHES

CODE IDENT. NO.	SIZE	DWG NO.	REV.
D/C CODE 10	<b>A</b>	211708	03
SCALE NONE	DO NOT SCALE DWG	SHEET 1 OF 3	

**PERTEC BUSINESS SYSTEMS**

SIZE	DWG NO.	REV
<b>A</b>	211708	03
		SHEET 2



PERTEC  
COMPUTER  
CORPORATION

MATERIAL LIST

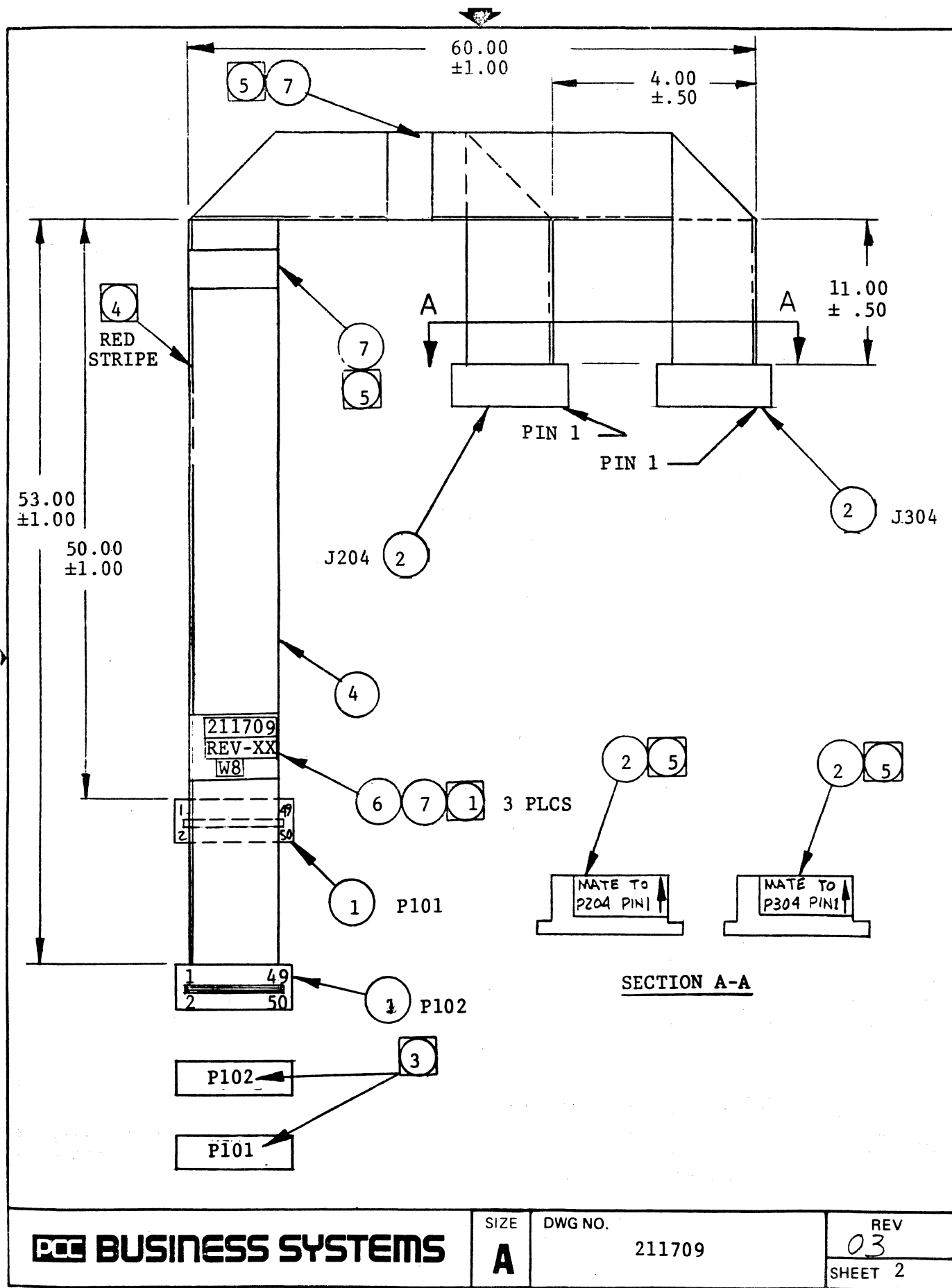
Sheet 3<sup>rd</sup>

ML  
Dwg. No.

211708

Rev.  
03

Item No.	Quantity Required					Part No.	Nomenclature or Description	Reference Designation
					-000			
1						2 320258-011	CONNECTOR, SOCKET	P101,P102
2						2 320287-001	CONNECTOR, SOCKET	P001,P002
3						2 320279-000	CONNECTOR, CARD EDGE	J203,J303
4						AR 510122-000	CABLE, RIBBON	
5						6 410210-001	LABEL, SELF ADHESIVE	
6								
7						AR 420223-001	TAPE, PLASTIC FILM	
8						3 740005-000	LABEL, SELF ADHESIVE	
9								



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REVISIONS				
REV	DESCRIPTION	DRFTG	APPVD	DATE
01	RELEASE PER DRO 241-79		FB	8/1/79
02	INCORP DCO 09703	BM/KW	EB	2/29/80
03	CODE 10 REL W/O CHANGES PER DCO 10499	LM	EB	4/9/80

APPLICATION	
NEXT ASSY	MODEL
MULTI	NTP

- 9 P102 REMOVE PIN 12 PRIOR TO INSTALLING CABLE (ITEM 4).
- 8 P101 REMOVE PIN 3 PRIOR TO INSTALLING CABLE (ITEM 4).
- 7.
- 6. REFERENCE CABLE DIAGRAM, 121184.
- 5 ATTACH CABLE HALVES USING ITEM 7 (TAPE) AS REQUIRED.
- 4 RED STRIPE INDICATES PIN 1 OF CONNECTOR.
- 3 PERMANENTLY MARK CONNECTOR DESIGNATION SHOWN USING .09 HIGH CHARACTER IN A CONTRASTING COLOR PER SPEC 100034.
- 2 LOCATE CONNECTOR IDENT LABEL WHERE SHOWN WITH ARROW POINTING TO DESIGNATED PIN.
- 1 PERMANENTLY MARK ASSEMBLY NUMBER, "REV" AND APPROPRIATE REVISION LEVEL, AND CABLE REF DESIGNATION USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPECIFICATION 100034.

NOTE: UNLESS OTHERWISE SPECIFIED.

DRAWN	MURRAY/kw	7-26-79	<b>PERTEC COMPUTER CORPORATION</b>	
CHECK	PADILLA	7-27-79	DATA SYSTEMS OPERATIONS DIVISION	
APPR	SCHUMAKER	7-27-79	TITLE	
RELEASE	G BRINK	8/1/79	CABLE, DISK INTERFACE (W8)	
UNLESS OTHERWISE SPECIFIED			CODE IDENT. NO.	SIZE
1 TOLERANCES				DWG NO.
.xx ±.03 ANGULAR				REV.
.xxx ±.010 ±0°30'			D C CODE	
2 REMOVE ALL BURRS			10	211709
3 BREAK ALL SHARP EDGES .010 APPROX			SCALE NONE	DO NOT SCALE DWG
4 MACH SURFACES 125 ✓ OR BETTER			SHEET 1 OF 8	
5 INTERPRET DWG PER ANS Y14				
6 DIM ARE IN INCHES				



MATERIAL LIST

Sheet of 03 ML Desg. No. 211709

Item No.	Quantity Required	Part No.	Manufacturer or Description	Reference Designation
1	-000	320258-011	CONNECTOR, SOCKET	P101, P102
2		320279-000	CONNECTOR, EDGE .100" CTRS	J204, J304
3				
4		AR 510122-000	CABLE, RIBBON	
5		4 410210-001	LABEL, SELF ADHESIVE	
6		3 740005-000	LABEL, SELF ADHESIVE	
7		AR 420223-001	TAPE, PLASTIC FILM	

790408-03

PERTEC BUSINESS SYSTEMS DIVISION

ENGINEERING WIRE LIST

WIRE/COMP NO.	FROM		TO		WIRE ITEM NO.	SIGNAL	COLOR	REMARKS
	REF. DES.	TERM. ITEM/TYPE	REF. DES.	TERM. ITEM/TYPE				
1	J304-1		P102-1			TESTER PWR		
2	J304-2		P102-2			TESTER PWR		
3	J304-3		P102-3			TESTER PWR		
4	J304-4		P102-4			RETURN		
5	J304-5		P102-5			RETURN		
6	J304-6		P102-6			IBS1	BUSY SEEKING #1	
7	J304-7		P102-7			GND		
8	J304-8		P102-8			IBS2	BUSY SEEKING #2	
9	J304-9		P102-9			IBS3	BUSY SEEKING #3	
10	J304-10		P102-10			GND		
11	J304-11	2	P102-11	1	4	IBS4	BUSY SEEKING #4	
12	J304-12							
13	J304-13		P102-13			GND		
14	J304-14		P102-14			LSP12		
15	J304-15		P102-15			LRDX	READ DATA	
16	J304-16		P102-16			GND		
17	J304-17		P102-17			LRCX	READ CLOCK	
18	J304-18		P102-18					
19	J304-19		P102-19			GND		
20	J304-20		P102-20			(SPEC)		

T = TIN WIRE  
S6 = STRIP WIRE .375

DWG. NO. 211709  
SHEET 4

PERTEC BUSINESS SYSTEMS DIVISION

ENGINEERING WIRE LIST

WIRE/COMP NO.	FROM		TO		WIRE ITEM NO.	SIGNAL	COLOR	REMARKS
	REF. DES.	TERM. ITEM/TYPE	REF. DES.	TERM. ITEM/TYPE				
21	J304-21		P102-21					
22	J304-22		P102-22			GND		
23	J304-23		P102-23			IFPX	FILE PROTECT	
24	J304-24		P102-24			IMDX	MAFUNCTION DETECTED	
25	J304-25		P102-25			GND		
26	J304-26		P102-26			IDPD	DUAL PLATTER DRIVE	
27	J304-27		P102-27			GND		
28	J304-28		P102-28			GND		
29	J304-29		P102-29					
30	J304-30	2	P102-30	1	4	IICA	ILLEGAL CYLINDER ADD.	
31	J304-31		P102-31			GND		
32	J304-32		P102-32					
33	J304-33		P102-33			IRDY	READY	
34	J304-34		P102-34			GND		
35	J304-35		P102-35			IDTD	DUAL TRACK DRIVE	
36	J304-36		P102-36			GND		
37	J304-37		P102-37			GND		
38	J304-38		P102-38			ISA1	SECTOR ADDRESS BIT 1	
39	J304-39		P102-39			ISA0	SECTOR ADDRESS BIT 0	
40	J304-40		P102-40			GND		

T = TIN WIRE  
S6 = STRIP WIRE .375

DWG. NO. 211709  
SHEET 5

PERTEC BUSINESS SYSTEMS DIVISION

ENGINEERING WIRE LIST

WIRE/COMP NO.	FROM		TO		WIRE ITEM NO.	SIGNAL	COLOR	REMARKS
	REF. DES.	TERM. ITEM/TYPE	REF. DES.	TERM. ITEM/TYPE				
41	J304-41		P102-41			ISA2		SECTOR ADDRESS BIT 2
42	J304-42		P102-42			ISA3		SECTOR ADDRESS BIT 3
43	J304-43		P102-43			GND		
44	J304-44		P102-44			ISA4		SECTOR ADDRESS BIT 4
45	J304-45	2	P102-45	1	4	ISA5		SECTOR ADDRESS BIT 5 (LSB)
46	J304-46		P102-46			GND		
47	J304-47		P102-47			IIPX		INDEX PULSE
48	J304-48		P102-48			GND		
49	J304-49		P102-49			ISPX		SECTOR PULSE
50	J304-50		P102-50			GND		
51	J204-1		P101-1					
52	J204-2		P101-2			GND		
53	J204-3							
54	J204-4		P101-4					
55	J204-5	2	P101-5	1	4	GND		
56	J204-6		P101-6			IEEX		ERASE ENABLE
57	J204-7		P101-7			IRES		READ ENABLE
58	J204-8		P101-8			GND		
59	J204-9		P101-9			IHA0		HEAD ADDRESS BIT 0 (NOT USED)
60	J204-10		P101-10			IWEX		WRITE ENABLE

T = TIN WIRE  
S6 = STRIP WIRE .375

DWG. NO. 211709  
SHEET 6

PERTEC BUSINESS SYSTEMS DIVISION

ENGINEERING WIRE LIST

WIRE/COMP NO.	FROM		TO		WIRE ITEM NO.	SIGNAL	COLOR	REMARKS
	REF. DES.	TERM. ITEM/TYPE	REF. DES.	TERM. ITEM/TYPE				
61	J204-11		P101-11			GND		
62	J204-12		P101-12			IHA2		(PLATTER SELECT) HEAD ADDRESS BIT 2 (SURFACE SELECT)
63	J204-13		P101-13			IHA3		HEAD ADDRESS BIT 3
64	J204-14		P101-14			GND		
65	J204-15		P101-15			IHA1		HEAD ADDRESS BIT 1 (NOT USED)
66	J204-16		P101-16			IWD		WRITE DATA
67	J204-17		P101-17			GND		
68	J204-18		P101-18					
69	J204-19	2	P101-19	1	4			
70	J204-20		P101-20			GND		
71	J204-21		P101-21			ICA8		CYLINDER ADDRESS BIT 8
72	J204-22		P101-22			ICA9		CYLINDER ADDRESS BIT 9 (LSB)
73	J204-23		P101-23			GND		
74	J204-24		P101-24			ICA6		CYLINDER ADDRESS BIT 6
75	J204-25		P101-25			ICA7		CYLINDER ADDRESS BIT 7
76	J204-26		P101-26			GND		
77	J204-27		P101-27					
78	J204-28		P101-28			ICAS		CYLINDER ADDRESS STROBE
79	J204-29		P101-29			GND		
80	J204-30		P101-30			ICA0		CYLINDER ADDRESS BIT 0 (NOT USED)

T = TIN WIRE  
S6 = STRIP WIRE .375

DWG. NO. 211709  
SHEET 7

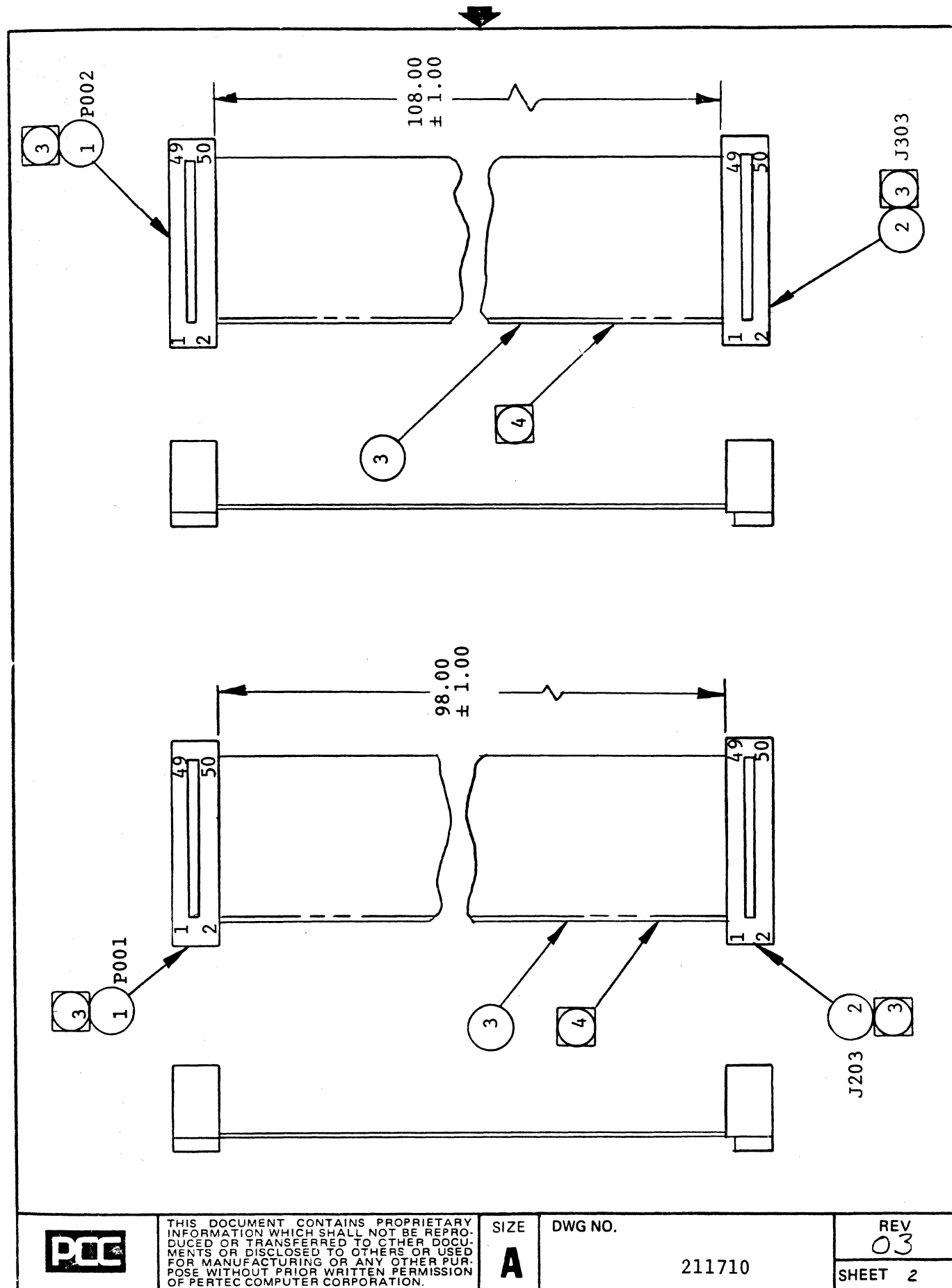
PERTEC BUSINESS SYSTEMS DIVISION

ENGINEERING WIRE LIST

WIRE/COMP NO.	FROM		TO		WIRE ITEM NO.	SIGNAL	COLOR	REMARKS
	REF. DES.	TERM. ITEM/TYPE	REF. DES.	TERM. ITEM/TYPE				
81	J204-31		P101-31			IRIC		RESTORE INITIAL CYLN
82	J204-32		P101-32			GND		
83	J204-33		P101-33			ICA5		CYLINDER ADDRESS BIT 5
84	J204-34		P101-34			ICA4		CYLINDER ADDRESS BIT 4
85	J204-35		P101-35			GND		
86	J204-36		P101-36			ICA3		CYLINDER ADDRESS BIT 3
87	J204-37		P101-37			ICA2		CYLINDER ADDRESS BIT 2
88	J204-38		P101-38			GND		
89	J204-39		P101-39			ICA1		CYLINDER ADDRESS BIT 1
90	J204-40	2	P101-40	1	4	IUS4		UNIT SELECT #4
91	J204-41		P101-41			GND		
92	J204-42		P101-42			IUS3		UNIT SELECT #3
93	J204-43		P101-43			IUS2		UNIT SELECT #2
94	J204-44		P101-44			GND		
95	J204-45		P101-45			IUS1		UNIT SELECT #1
96	J204-46		P101-46					
97	J204-47		P101-47			GND		RETURN
98	J204-48		P101-48			GND		RETURN
99	J204-49		P101-49			+5V		TERMINATION VOLTAGE
100	J204-50		P101-50			+5V		TERMINATION VOLTAGE

T = TIN WIRE  
S6 = STRIP WIRE .375

DWG. NO. 211709  
SHEET 8



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APPLICATION	
NEXT ASSY	MODEL
211647	NTP

REVISIONS				
REV	DESCRIPTION	DRFTG	APPVD	DATE
01	RELEASE PER DRO 208-79		EB	7/26/79
02	INCORP DCO 10260	BM/KW	EB	2/22/80
03	CODE 10 REL W/O CHANGES PER DCO 10499	LM	EB	4/9/80

- 5 ATTACH CABLE HALVES USING ITEM 6 (TAPE) AS REQUIRED.
- 4 RED STRIPE INDICATES PIN 1 OF CONNECTOR.
- 3 PERMANENTLY MARK CONNECTOR DESIGNATION SHOWN USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPEC 100034.
- 2 LOCATE CONNECTOR IDENT LABEL WHERE SHOWN WITH ARROW POINTING TO DESIGNATED PIN.
- 1 PERMANENTLY MARK ASSEMBLY NUMBER, "REV" AND APPROPRIATE REVISION LEVEL, AND CABLE REF. DESIGNATION USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPECIFICATION 100034.

NOTE: UNLESS OTHERWISE SPECIFIED.

DRAWN	MURRAY/kw	7-23-79
CHECK	J EVERS	7-25-79
APPR	SCHUMAKER	7/25/79
RELEASE	G BRINK	7/29/79

**PERTEC COMPUTER CORPORATION**  
DATA SYSTEMS OPERATIONS DIVISION

TITLE  
**CABLE, MAXI INTFC (W11)**

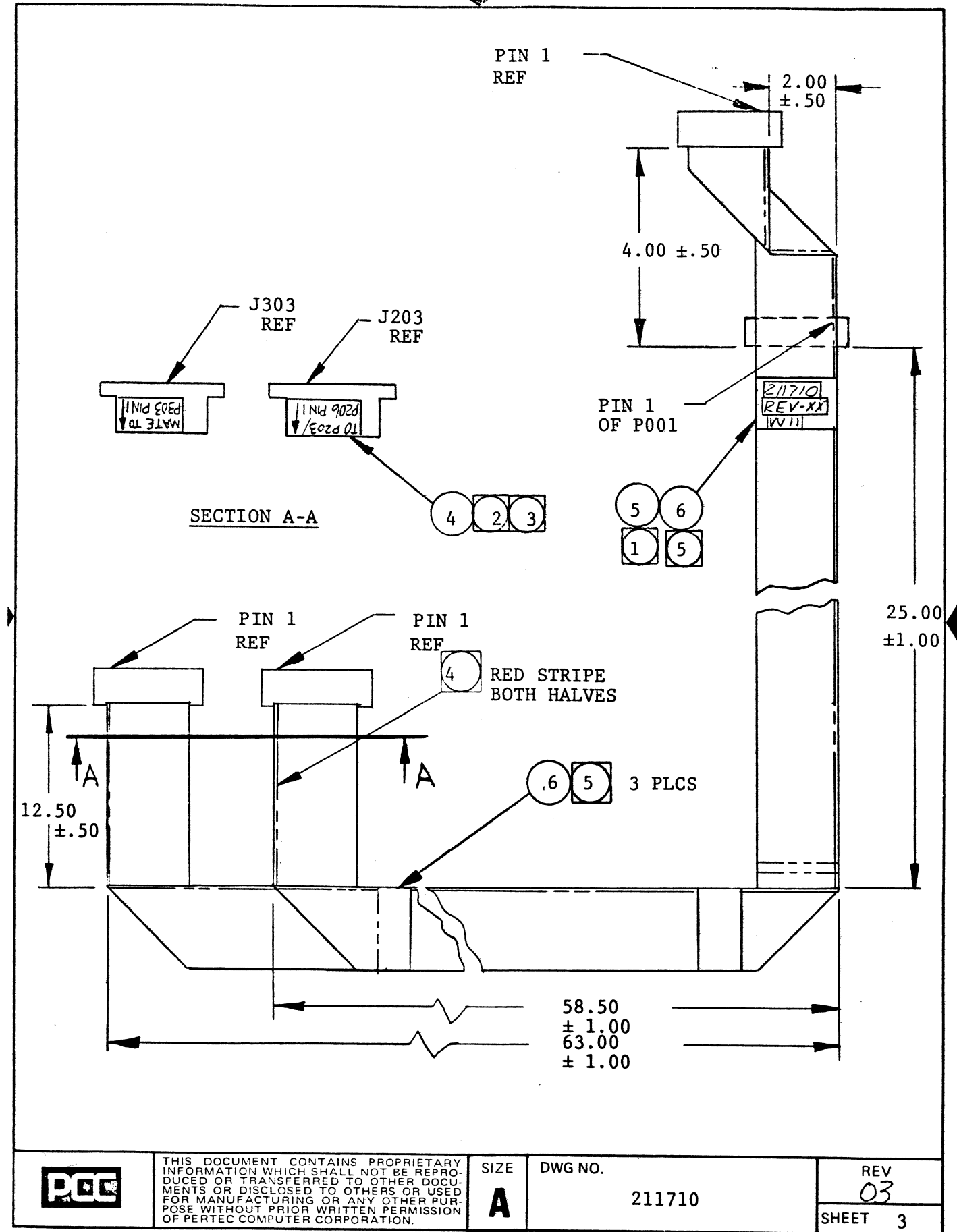
- UNLESS OTHERWISE SPECIFIED
- 1 TOLERANCES  
.xx ±.03 ANGULAR  
.xxx ±.010 ±0°30'
  - 2 REMOVE ALL BURRS
  - 3 BREAK ALL SHARP EDGES  
.010 APPROX
  - 4 MACH SURFACES 125 ✓ OR BETTER
  - 5 INTERPRET DWG PER ANS Y14
  - 6 DIM ARE IN INCHES

CODE IDENT. NO.	SIZE	DWG NO.	REV.
D/C CODE 10	<b>A</b>	211710	<b>03</b>
SCALE NONE	DO NOT SCALE DWG	SHEET 1 OF 4	

<b>PC</b>	THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR TRANSFERRED TO OTHER DOCUMENTS OR DISCLOSED TO OTHERS OR USED FOR MANUFACTURING OR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN PERMISSION OF PERTEC COMPUTER CORPORATION.	SIZE	DWG NO.	REV
		<b>A</b>	211710	<b>03</b>
				SHEET 2

Item No.	Quantity Required	Part No.	Nomenclature or Description	Reference Designation
1	-000			
2	2	320258-011	CONNECTOR, SOCKET	P001, P002
3	2	320279-000	CONNECTOR, CARD EDGE	J203, J303
4	AR	510122-000	CABLE, FLAT RIBBON	
5	4	410210-001	LABEL, SELF ADHESIVE	
6	3	740005-000	LABEL, SELF ADHESIVE	
7	AR	420223-001	TAPE, PLASTIC FILM	
8				

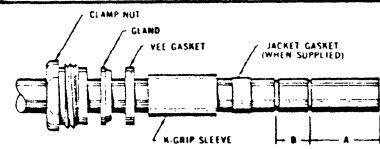
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790104-06



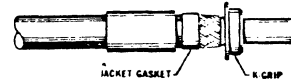
CABLING PROCEDURE CP-200A



1. Cut cable end square, slide K-GRIP sleeve and back end parts over jacket. Using jacket trim jig, make cuts A and B in jacket.



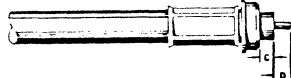
2. Remove jacket to dimension "A." Flare or bulge back braid. Trim with scissors at edge of jacket.



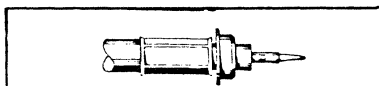
3. Remove jacket to dimension "B." Push K-GRIP over dielectric and under braid. Slide jacket gasket, when provided, forward to position flush with jacket edge. (When the "B" dimension in the trim code is 0, push the K-GRIP under both braid and jacket, butting braid against flange of K-GRIP. Teflon jackets may be slit axially 1/4" in the two places to facilitate entry of the K-GRIP.)



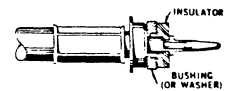
4. Slide K-GRIP sleeve against flange on K-GRIP. Form hex.



5. With dielectric trim jig, trim dielectric to dimension "C." Cut center conductor to dimension "D."



6. Solder or crimp contact to center conductor. For access type angle connectors, omit this step and proceed to step 7. For captive contacts, assemble contact capturing parts on cable before attaching contact, as shown below.



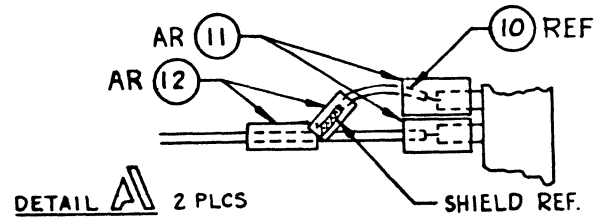
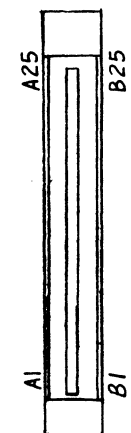
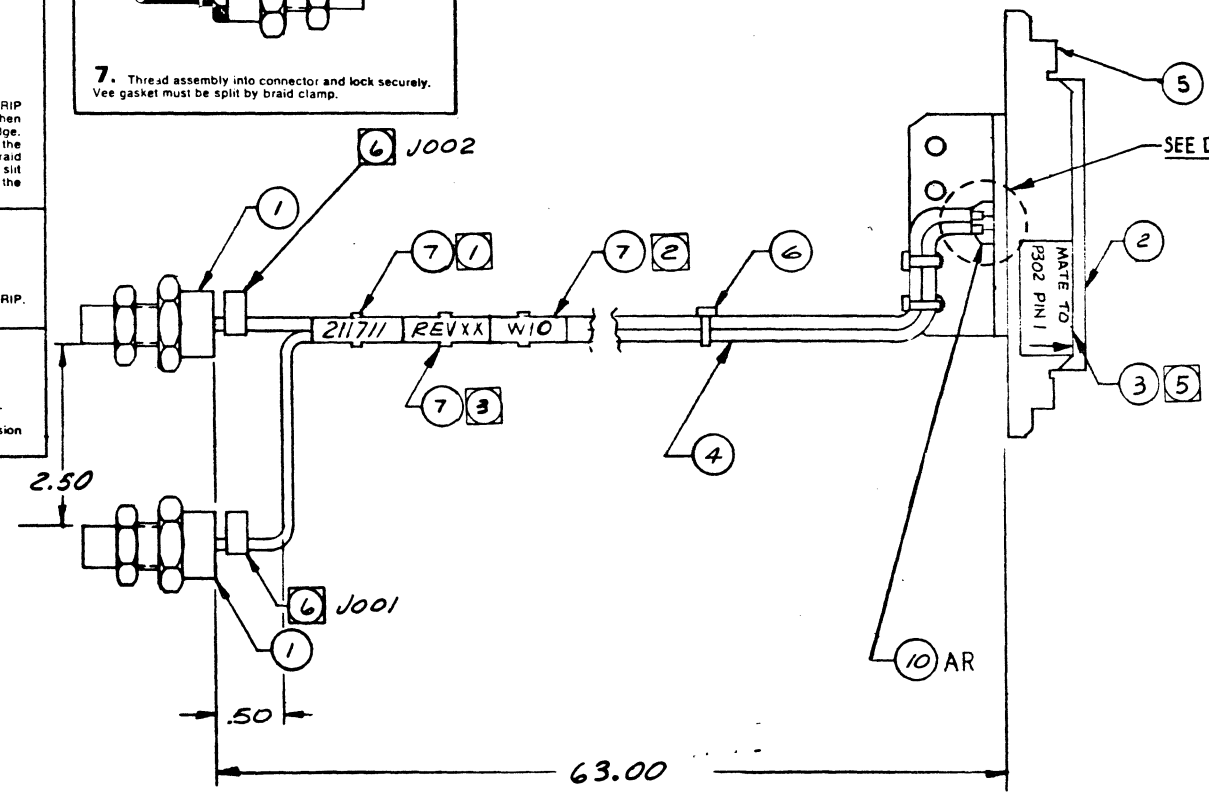
7. Thread assembly into connector and lock securely. Vee gasket must be split by braid clamp.

CABLING DIMENSIONS

A	B	C	D
.50	.22	.10	.11

WIRE LIST

WIRE/COMP NO.	FROM		TO		WIRE ITEM NO.	SIGNAL	COLOR	REMARKS
	REF. DES.	TERM ITEM/TYPE	REF. DES.	TERM ITEM/TYPE				
1	W10J001-C	1 (4)	W10J302-A12	3	4	ØCX1	COND	
2	W10J001-S	1 (4)	W10J302-A10	3	4, 10	LGND	SHLD	
3	W10J002-C	1 (4)	W10J302-A14	3	4	ØCX2	COND	
4	W10J002-S	1 (4)	W10J302-A16	3	4, 10	LGND	SHLD	



- 6 PERMANENTLY MARK CONNECTOR DESIGNATIONS SHOWN USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPECIFICATION 100034.
  - 5 LOCATE CONNECTOR IDENT LABEL WHERE SHOWN WITH ARROW POINTING TO DESIGNATED PIN.
  - 4 ASSEMBLE PER CABLING PROCEDURE.
  - 3 PERMANENTLY MARK 'REV' AND APPROPRIATE REVISION LEVEL USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPEC 100034.
  - 2 PERMANENTLY MARK REF DESIGNATIONS USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPEC 100034.
  - 1 PERMANENTLY MARK ASSY NO. USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPEC 100034.
- NOTE: UNLESS OTHERWISE SPECIFIED

SYM	DESCRIPTION	DRFTG	APPVD	DATE	NEXT ASSY	QTY	MODEL	QTY
04	CODE 10 REL W/O CHANGE PER DCO 10499	ICM		7/23/79				
03	IN CORP DCO 09704	SM						
02	IN CORP DCO 09322	EMV						
01	RELEASE PER DRO							

DRAWN	B. Thurman	7/23/79	PERTEC BUSINESS SYSTEMS DIVISION		
CHECK			TITLE		
APPR			CABLE, STATION		
RELEASE			MUX INTERFACE (W10)		
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			DC CODE	C	211711
			SCALE	DO NOT SCALE DWG	SHEET 1 OF 2



MATERIAL LIST

Sheet 2 of 2

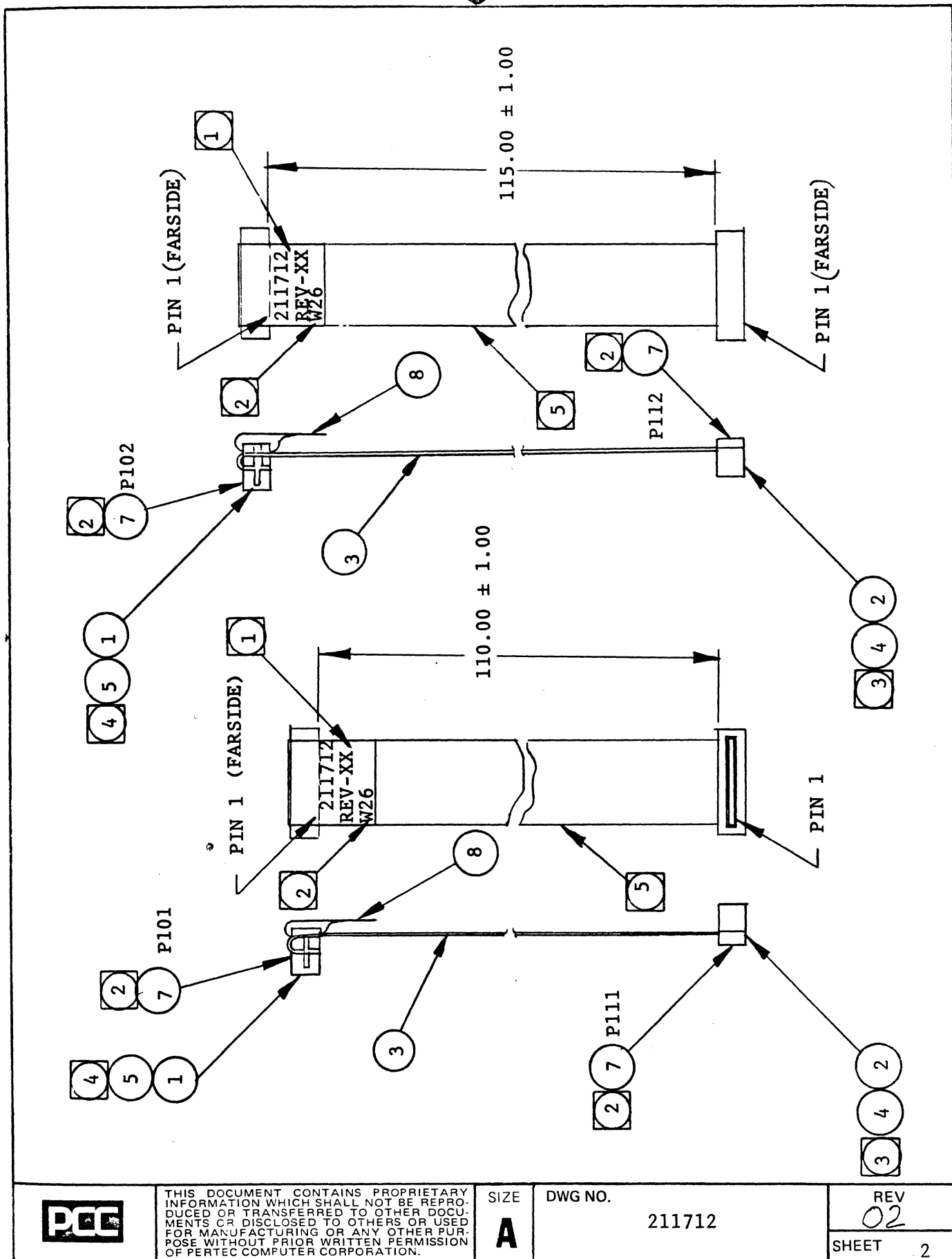
ML  
Dwg. No.

211711

Rev.

04

Item No.	Quantity Required						Part No.	Nomenclature or Description	Reference Designation
						-000			
1						2	320188-000	JACK, BULKHEAD	W10J001, W10J002
2						1	320267-001	CONNECTOR, EDGE-ON	W10J302
3						1	410210-001	LABEL, SELF ADHESIVE	
4						AR	510115-000	CABLE COAXIAL (UL STYLE 1354)	
5						1	241806-000	ADAPTER, I/O CONNECTOR	
6						AR	370016-XXX	TIE, WRAP	
7						3	420019-000	TIE, IDENTIFICATION	
8									
9									
10						AR	510111-022	WIRE, UL 1015 STRANDED VINYL	
11						AR	420001-375	TUBING, SHRINK	
12						AR	420001-250	TUBING, SHRINK	



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APPLICATION	
NEXT ASSY	MODEL
211648	NTP

REVISIONS				
REV	DESCRIPTION	DRFTG	APPVD	DATE
01	RELEASE PER DRO 241-79		EB	2/1/79
02	CODE 10 REL W/O CHANGES PER DCO 10499	LM	EB	4/9/79

- 5 RED MARK SIGNIFIES PIN NUMBER 1.
- 4 INSTALL ITEM 5 (CONNECTOR KEY) IN PIN 27 OF P101 AND IN PIN 18 OF P102.
- 3 INSTALL ITEM 4 (CONNECTOR KEY) BETWEEN PIN 23 AND PIN 25 OF P111 AND BETWEEN PIN 37 AND PIN 39 OF P112.
- 2 PERMANENTLY MARK REF DESIGNATION USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPECIFICATION 100034.
- 1 PERMANENTLY MARK ASSEMBLY NUMBER AND "REV" AND APPROPRIATE REVISION LEVEL APPROXIMATELY AS SHOWN USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPECIFICATION 100034.

NOTE: UNLESS OTHERWISE SPECIFIED.

DRAWN	MURRAY/kw	7-23-79
CHECK	<i>J. E. ...</i>	7-27-79
APPR	<i>R. ...</i>	7-27-79
RELEASE	<i>G. ...</i>	8/1/79

**PCC PERTEC COMPUTER CORPORATION**  
DATA SYSTEMS OPERATIONS DIVISION

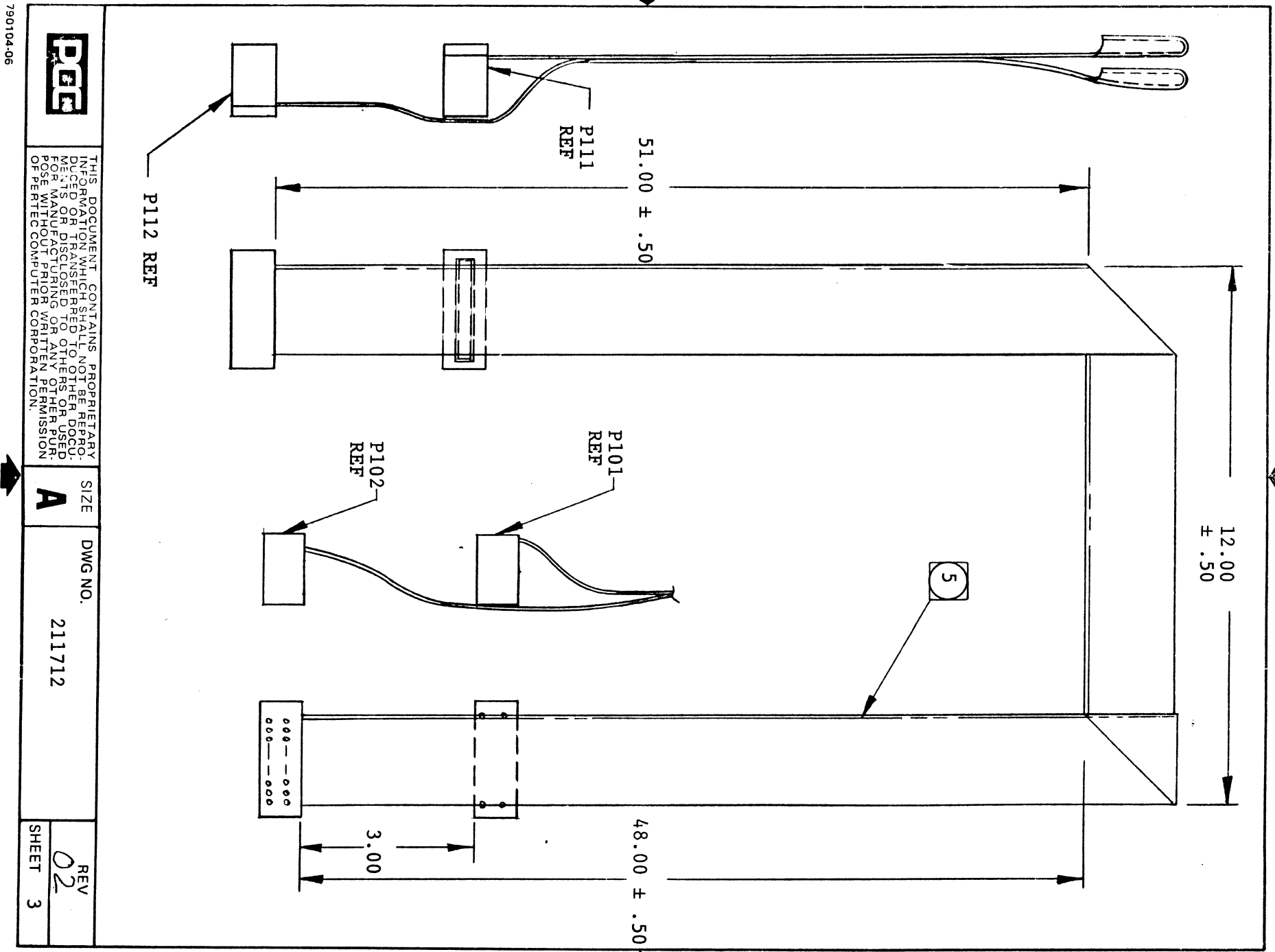
TITLE  
CABLE, R/D INTERFACE (W26)

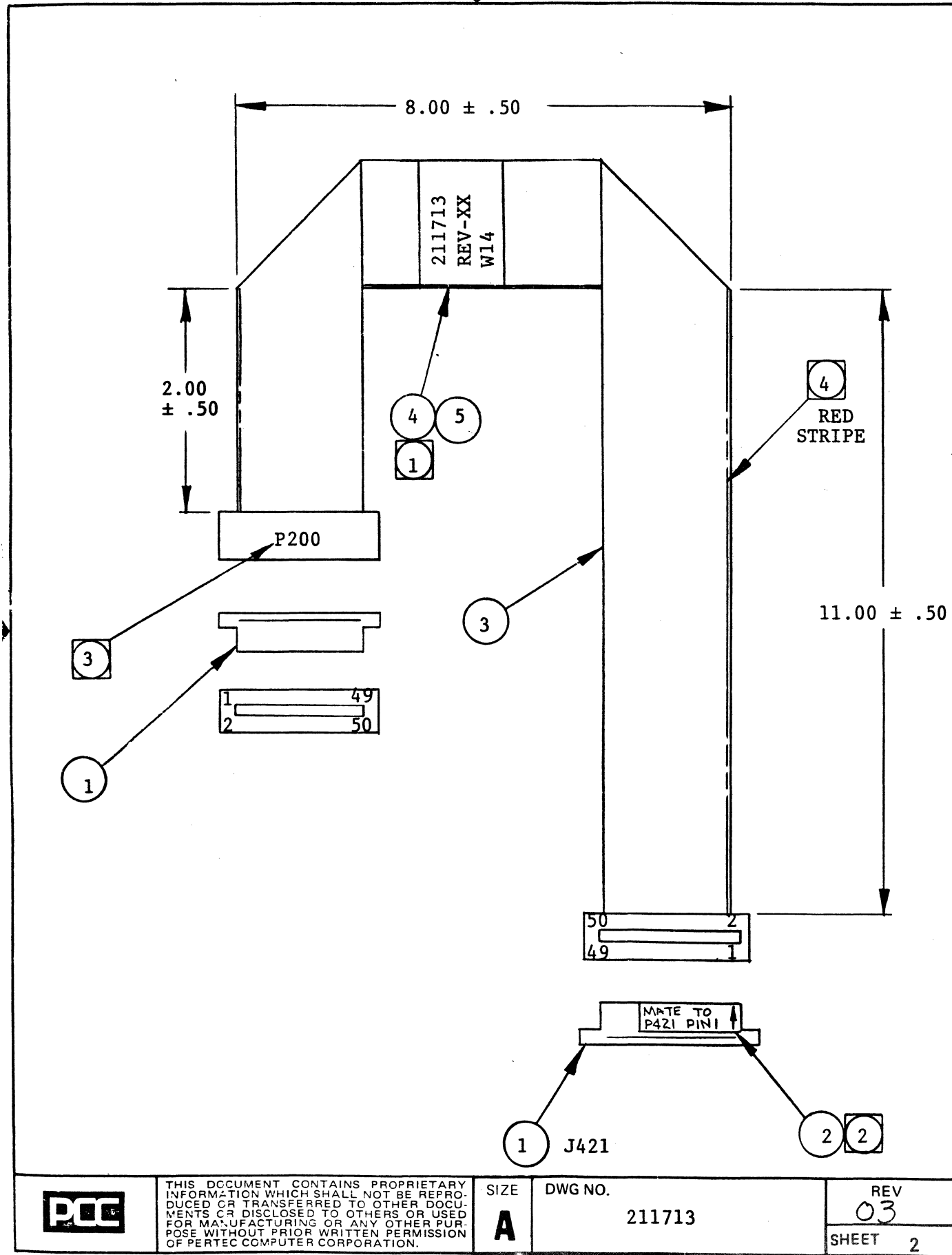
- UNLESS OTHERWISE SPECIFIED
- 1 TOLERANCES  
.xx ±.03 ANGULAR  
.xxx ±.010 ±0°30'
  - 2 REMOVE ALL BURRS
  - 3 BREAK ALL SHARP EDGES .010 APPROX
  - 4 MACH SURFACES 125 ✓ OR BETTER
  - 5 INTERPRET DWG PER ANS Y14
  - 6 DIM ARE IN INCHES

CODE IDENT. NO.	SIZE	DWG NO.	REV.
D C CODE	<b>A</b>	211712	02
10			
SCALE NONE	DO NOT SCALE DWG	SHEET 1 OF 4	

Item No.	Quantity Required					Part No.	Nomenclature or Description	Reference Designation
					-000			
1					2	320258-011	CONNECTOR, SOCKET	P101,P102
2					2	320279-003	CONNECTOR, CARD EDGE	P111,P112
3					AR	510122-000	CABLE, FLAT RIBBON	
4					2	320279-001	KEY, CONNECTOR, CARD EDGE	
5					2	320302-000	KEY, CONNECTOR, SOCKET	
6								
7					AR	700027-000	TAPE, IDENTIFICATION	
8					2	340022-004	PULL TAB, RIBBON CABLE CONN.	

790406-03





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APPLICATION	
NEXT ASSY	MODEL
211645	NTP

REVISIONS				
REV	DESCRIPTION	DRFTG	APPVD	DATE
01	RELEASE PER DRO 208-79		EB	7/26/79
02	INCORP DCO 09704	BM/KW	EB	2/2/80 <sup>R</sup>
03	CODE 10 REL W/O CHANGES PER DCO 10499	LM	EB	4/19/80 <sup>R</sup>

- 4 RED STRIPE INDICATES PIN 1 OF CONNECTOR
- 3 PERMANENTLY MARK CONNECTOR DESIGNATION SHOWN USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPEC 100034.
- 2 LOCATE CONNECTOR IDENT LABEL WHERE SHOWN WITH ARROW POINTING TO DESIGNATED PIN.
- 1 PERMANENTLY MARK ASSEMBLY NUMBER, "REV" AND APPROPRIATE REVISION LEVEL, AND CABLE REF DESIGNATION USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPECIFICATION 100034.

NOTE: UNLESS OTHERWISE SPECIFIED.

DRAWN	MURRAY/kw	7-23-79
CHECK	J EVERS	7/25/79
APPR	R SCHUMAKER	7/25/79
RELEASE	G BRINK	7/26/79

**PCC PERTEC COMPUTER CORPORATION**  
DATA SYSTEMS OPERATIONS DIVISION

TITLE  
**CABLE TEST SET CONTROL (W14)**

- UNLESS OTHERWISE SPECIFIED
- 1 TOLERANCES  
.xx ±.03 ANGULAR  
.xxx ±.010 ±0°30'
  - 2 REMOVE ALL BURRS
  - 3 BREAK ALL SHARP EDGES .010 APPROX
  - 4 MACH SURFACES 125 ✓ OR BETTER
  - 5 INTERPRET DWG PER ANS Y14
  - 6 DIM ARE IN INCHES

CODE IDENT. NO.	SIZE	DWG NO.	REV.
DC CODE 10	A	211713	03
SCALE NONE	DO NOT SCALE DWG	SHEET 1 OF 6	

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		A	211713	03
				SHEET 2



MATERIAL LIST

Sheet 3 of ML Dwg. No. 211713 Rev. 03

Item No.	Quantity Required				Part No.	Nomenclature or Description	Reference Designation
				-000			
1					2 320279-003	CONNECTOR, RIBBON CABLE	J421,P200
2					2 410210-001	LABEL, SELF-ADHESIVE	
3					AR 510122-000	CABLE, RIBBON	
4					3 740005-000	LABEL, SELF ADHESIVE	
5					AR 420223-001	TAPE, PLASTIC FILM	

790406-01



ENGINEERING WIRE LIST

WIRE/COMP NO.	FROM		TO		WIRE ITEM NO.	SIGNAL	COLOR	REMARKS
	REF. DES.	TERM ITEM/TYPE	REF. DES.	TERM ITEM/TYPE				
21	P200-41	1	J421-41	1	3	1STB5		
22	P200-43	1	J421-43	1	3	SPARE		
23	P200-45	1	J421-45	1	3	1DCLK		
24	P200-47	1	J421-47	1	3	GND		
25	P200-49	1	J421-49	1	3	GND		
26	P200-2	1	J421-2	1	3	+5V		
27	P200-4	1	J421-4	1	3	+15V		
28	P200-6	1	J421-6	1	3	0DB01		
29	P200-8	1	J421-8	1	3	0DB00		
30	P200-10	1	J421-10	1	3	0DB05		
31	P200-12	1	J421-12	1	3	0DB02		
32	P200-14	1	J421-14	1	3	0DB03		
33	P200-16	1	J421-16	1	3	0DB04		
34	P200-18	1	J421-18	1	3	0DB06		
35	P200-20	1	J421-20	1	3	0DB07		
36	P200-22	1	J421-22	1	3	0DB08		
37	P200-24	1	J421-24	1	3	0DB09		
38	P200-26	1	J421-26	1	3	0DB10		
39	P200-28	1	J421-28	1	3	0DB11		
40	P200-30	1	J421-30	1	3	0DB14		

T = TIN WIRE  
S6 = STRIP WIRE .375

DWG NO 211713 REV 03  
SHEET 5

790407-01



ENGINEERING WIRE LIST

WIRE/COMP NO.	FROM		TO		WIRE ITEM NO.	SIGNAL	COLOR	REMARKS
	REF. DES.	TERM ITEM/TYPE	REF. DES.	TERM ITEM/TYPE				
1	P200-1	1	J421-1	1	3	+5V		
2	P200-3	1	J421-3	1	3	+15V		
3	P200-5	1	J421-5	1	3	1KCP		
4	P200-7	1	J421-7	1	3	0KCH03		
5	P200-9	1	J421-9	1	3	0KCH02		
6	P200-11	1	J421-11	1	3	0KCH01		
7	P200-13	1	J421-13	1	3	0KCH00		
8	P200-15	1	J421-15	1	3	1PROGSW		
9	P200-17	1	J421-17	1	3	1PMFRTSW		
10	P200-19	1	J421-19	1	3	1HALTSW		
11	P200-21	1	J421-21	1	3	1RUNSW		
12	P200-23	1	J421-23	1	3	3REST		
13	P200-25	1	J421-25	1	3	SPARE		
14	P200-27	1	J421-27	1	3	0KDH03		
15	P200-29	1	J421-29	1	3	0KDH02		
16	P200-31	1	J421-31	1	3	0KDH01		
17	P200-33	1	J421-33	1	3	1KDP		
18	P200-35	1	J421-35	1	3	0KDH00		
19	P200-37	1	J421-37	1	3	1TP?		
20	P200-39	1	J421-39	1	3	1STB4		

T = TIN WIRE  
S6 = STRIP WIRE .375

DWG NO 211713 REV 03  
SHEET 4

790408-01



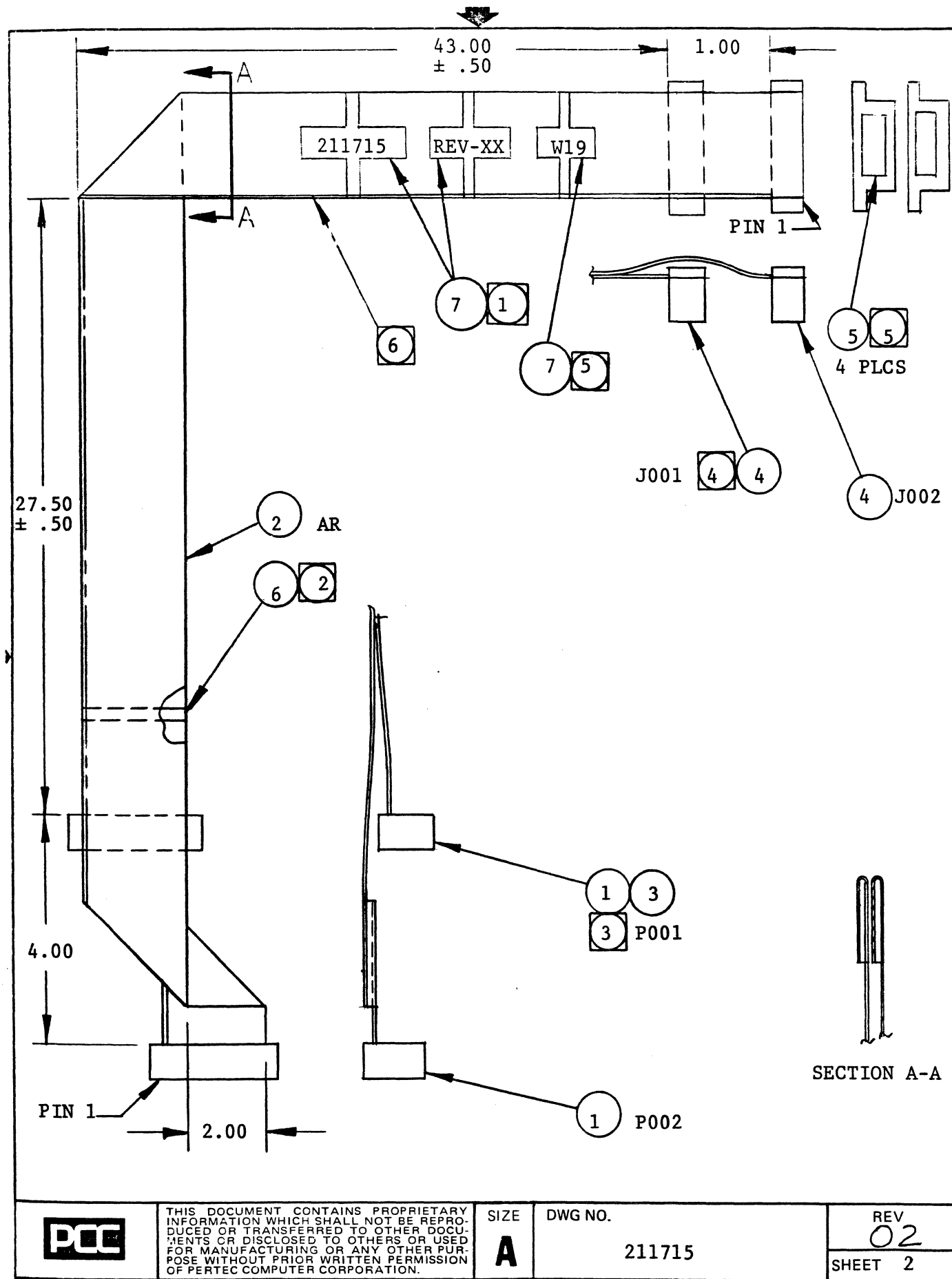
ENGINEERING WIRE LIST

WIRE/COMP NO.	FROM		TO		WIRE ITEM NO.	SIGNAL	COLOR	REMARKS
	REF. DES.	TERM ITEM/TYPE	REF. DES.	TERM ITEM/TYPE				
41	P220-32	1	J421-32	1	3	0DB13		
42	P220-34	1	J421-34	1	3	0DB12		
43	P220-36	1	J421-36	1	3	0DB15		
44	P220-38	1	J421-38	1	3	1TP1		
45	P220-40	1	J421-40	1	3	1TP3		
46	P220-42	1	J421-42	1	3	0STB3		
47	P220-44	1	J421-44	1	3	0STB1		
48	P220-46	1	J421-46	1	3	0STB2		
49	P220-48	1	J421-48	1	3	GND		
50	P220-50	1	J421-50	1	3	GND		

T = TIN WIRE  
S6 = STRIP WIRE .375

DWG NO 211713 REV 03  
SHEET 6

790409-01



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**APPLICATION**

NEXT ASSY	MODEL
	NTP

REVISIONS				
REV	DESCRIPTION	DRFTG	APPVD	DATE
01	RELEASE PER DRO 282-79		EB	8/22/79
02	CODE 10 REL W/O CHANGES PER DCO 10499	LM	EB	4/9/80

- 6 REDLINE INDICATES PIN 1 LOCATION.
  - 5 PERMANENTLY MARK REF DESIGNATIONS USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPEC 100034.
  - 4 REMOVE PIN NUMBER 44 OF J001 FOR KEYING.
  - 3 INSTALL ITEM 3 AT PIN 44 OF P001.
  - 2 ATTACH CABLES USING ITEM 6 TAPE AS REQUIRED.
  - 1 PERMANENTLY MARK ASSEMBLY NUMBER, "REV" AND APPROPRIATE REVISION LEVEL AS SHOWN USING APPROXIMATELY .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPEC 100034.
- NOTE: UNLESS OTHERWISE SPECIFIED.

DRAWN	MURRAY/kw	7-31-79	<b>PERTEC COMPUTER CORPORATION</b> DATA SYSTEMS OPERATIONS DIVISION
CHECK	TL ROQUENZE	8-8-79	
APPR	R Schmal	8-14-79	
RELEASE	G. Bomb	8/22/79	
UNLESS OTHERWISE SPECIFIED 1 TOLERANCES .xx ±.03 ANGULAR .xxx ±.010 ±0°30' 2 REMOVE ALL BURRS 3 BREAK ALL SHARP EDGES .010 APPROX 4 MACH SURFACES 125 ✓ OR BETTER 5 INTERPRET DWG PER ANS Y14 6 DIM ARE IN INCHES			TITLE CABLE, MAXI INTERFACE (W19)
CODE IDENT. NO.	SIZE	DWG NO.	REV.
DC CODE 10	A	211715	02
SCALE NONE	DO NOT SCALE DWG	SHEET 1	OF 3



**MATERIAL LIST**

Sheet 3 of

ML  
Dwg. No.

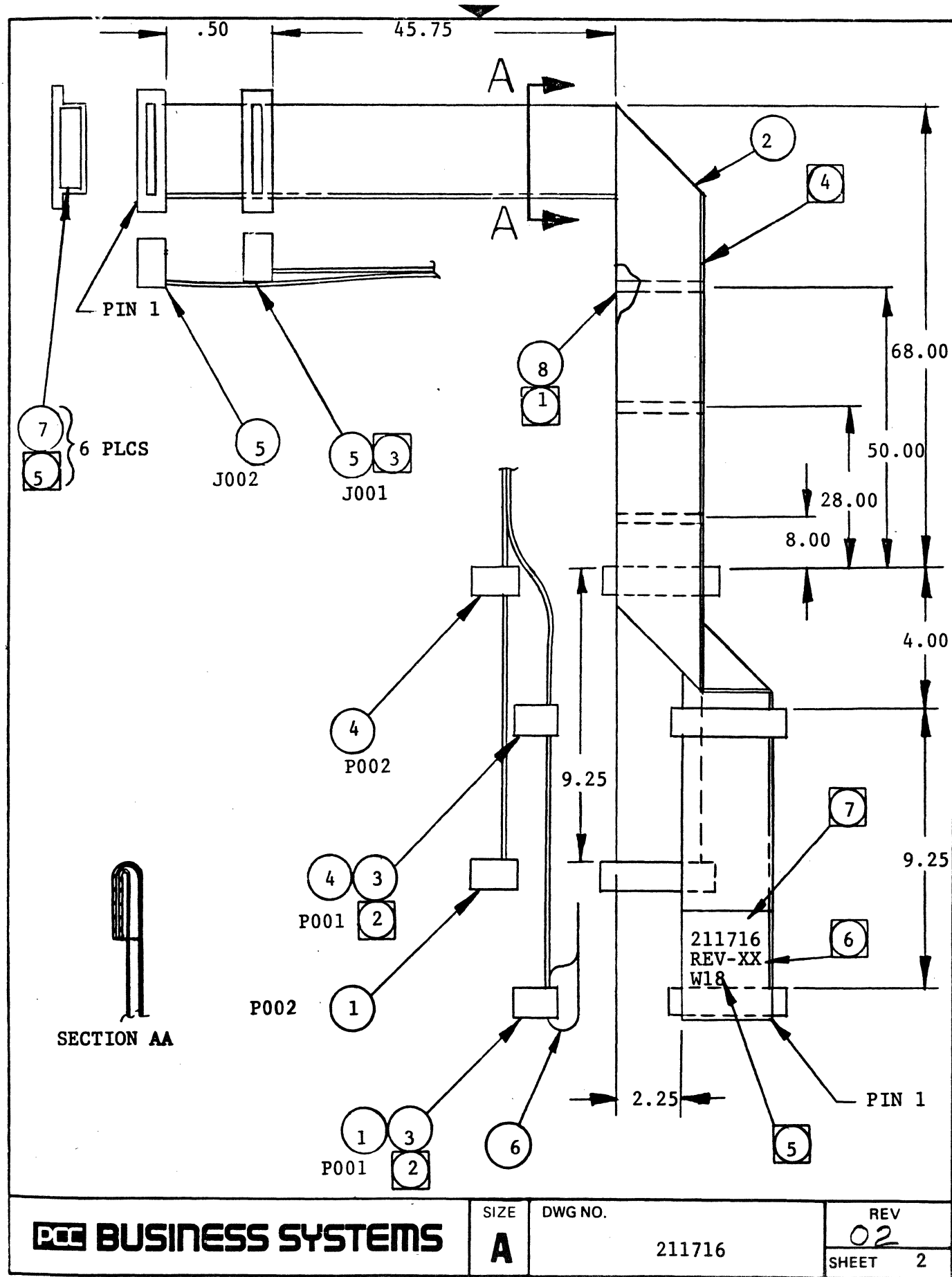
211715

Rev.

02

Item No.	Quantity Required						Part No.	Nomenclature or Description	Reference Designation
						-000			
1						2	320258-011	CONNECTOR, SOCKET	P001,P002
2						AR	510122-000	CABLE, FLAT RIBBON	
3						1	320302-000	KEY, CONNECTOR, SOCKET	
4						2	320296-000	CONNECTOR, PLUG	J001,J002
5						4	740005-000	LABEL, SELF ADHESIVE	
6						AR	703100-000	TAPE, FOAM, DOUBLE BACKED ADH	
7						3	420019-000	TIE, IDENTIFICATION	





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REVISIONS				
REV	DESCRIPTION	DRFTG	APPVD	DATE
01	RELEASE PER DRO 2x2-79		EB	8/22/79
02	CODE 10 REL W/O CHANGES PER DCO 10499	LM	EB	4/9/80

APPLICATION	
NEXT ASSY	MODEL
	NTP

- 7 PERMANENTLY MARK ASSY NUMBER USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPEC 100034.
- 6 PERMANENTLY MARK "REV" AND APPROPRIATE REVISION LEVEL USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPEC 100034.
- 5 PERMANENTLY MARK REF DESIGNATIONS USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPEC 100034.
- 4 REDLINE INDICATES PIN 1 LOCATION
- 3 REMOVE PIN 44 OF J001 FOR KEYING.
- 2 INSTALL ITEM 3 AT PIN 44 OF P001 2 PLCS.
- 1 ATTACH CABLES USING ITEM 8 (TAPE) WHERE SHOWN.

NOTE: UNLESS OTHERWISE SPECIFIED.

DRAWN	MURRAY/kw	7-31-79	<b>PERTEC COMPUTER CORPORATION</b>	
CHECK	TL ROSENBERG	8-8-79	DATA SYSTEMS OPERATIONS DIVISION	
APPR	R. Schmalz	8-14-79	TITLE	
RELEASE	G. Brub	8/22/79	CABLE, TAPE XPRT INTFC (TAPE/DISK) (W18)	
UNLESS OTHERWISE SPECIFIED			CODE IDENT. NO.	REV.
1 TOLERANCES			SIZE	DWG NO.
.xx ±.03 ANGULAR			A	211716
.xxx ±.010 ±0°30'				
2 REMOVE ALL BURRS			D/C CODE	REV.
3 BREAK ALL SHARP EDGES .010 APPROX			10	02
4 MACH SURFACES 125 OR BETTER			SCALE NONE	DO NOT SCALE DWG
5 INTERPRET DWG PER ANS Y14			SHEET 1	OF 3
6 DIM ARE IN INCHES				

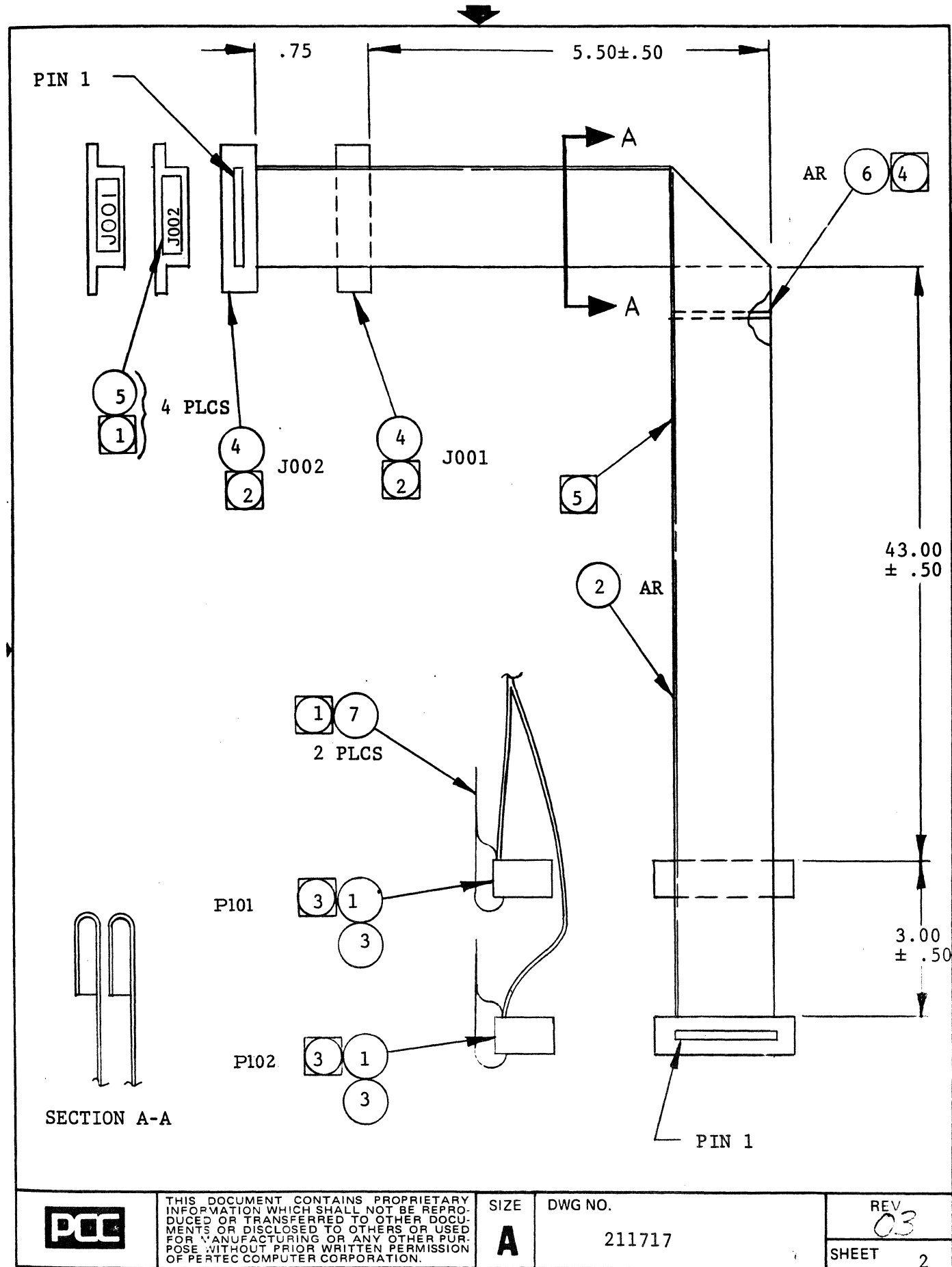
**PERTEC BUSINESS SYSTEMS**

SIZE	DWG NO.	REV
A	211716	02
		SHEET 2



MATERIAL LIST

Item No.	Quantity Required					Part No.	Nomenclature or Description	Reference Designation
					-000			
1						2 320258-011	CONNECTOR, SOCKET	P001,P002
2						AR 510122-000	CABLE, FLAT RIBBON	
3						2 320302-000	KEY, CONNECTOR, SOCKET	
4						2 320287-001	CONNECTOR, SOCKET	P001,P002
5						2 320296-000	CONNECTOR, PLUG	J001,J002
6						1 340022-004	PULL TAB, RIBBON CABLE CONN.	
7						6 740005-000	LABEL, SELF ADHESIVE	
8						AR 703100-000	TAPE, FOAM, DOUBLE BACKED ADH	



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REVISIONS				
REV	DESCRIPTION	DRFTG	APPVD	DATE
01	RELEASE PER DRO 282-79		EB	8/22/79
02	CODE 10 REL W/O CHANGES PER DCO 10499	LM	EB	4/9/80
03	INCORP DCO 10747	BM/LM	EB	5/23/80

APPLICATION	
NEXT ASSY	MODEL
	NTP

- 5 REDLINE INDICATES PIN 1 LOCATION.
- 4 ATTACH CABLES USING ITEM 5 (TAPE) AS REQUIRED.
- 3 INSTALL ITEM 3 (CONNECTOR KEY) AT PIN 27 OF P101 AND PIN 18 OF P102.
- 2 REMOVE PIN 27 OF J001 AND PIN 18 OF J002.
- 1 PERMANENTLY MARK ASSEMBLY NUMBER, "REV" AND APPROPRIATE REVISION LEVEL, AND REF DESIGNATIONS AS SHOWN USING APPROXIMATELY .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPEC 100034.

NOTE: UNLESS OTHERWISE SPECIFIED.

DRAWN	MURRAY/kw	8-13-79
CHECK	TL ROGLENDEE	8-21-79
APPR	RS Schuch	8-21-79
RELEASE	G. Field	8/22/79

**PCC DATA SYSTEMS OPERATIONS**

TITLE  
CABLE, RIGID DISK INTERFACE (W25)

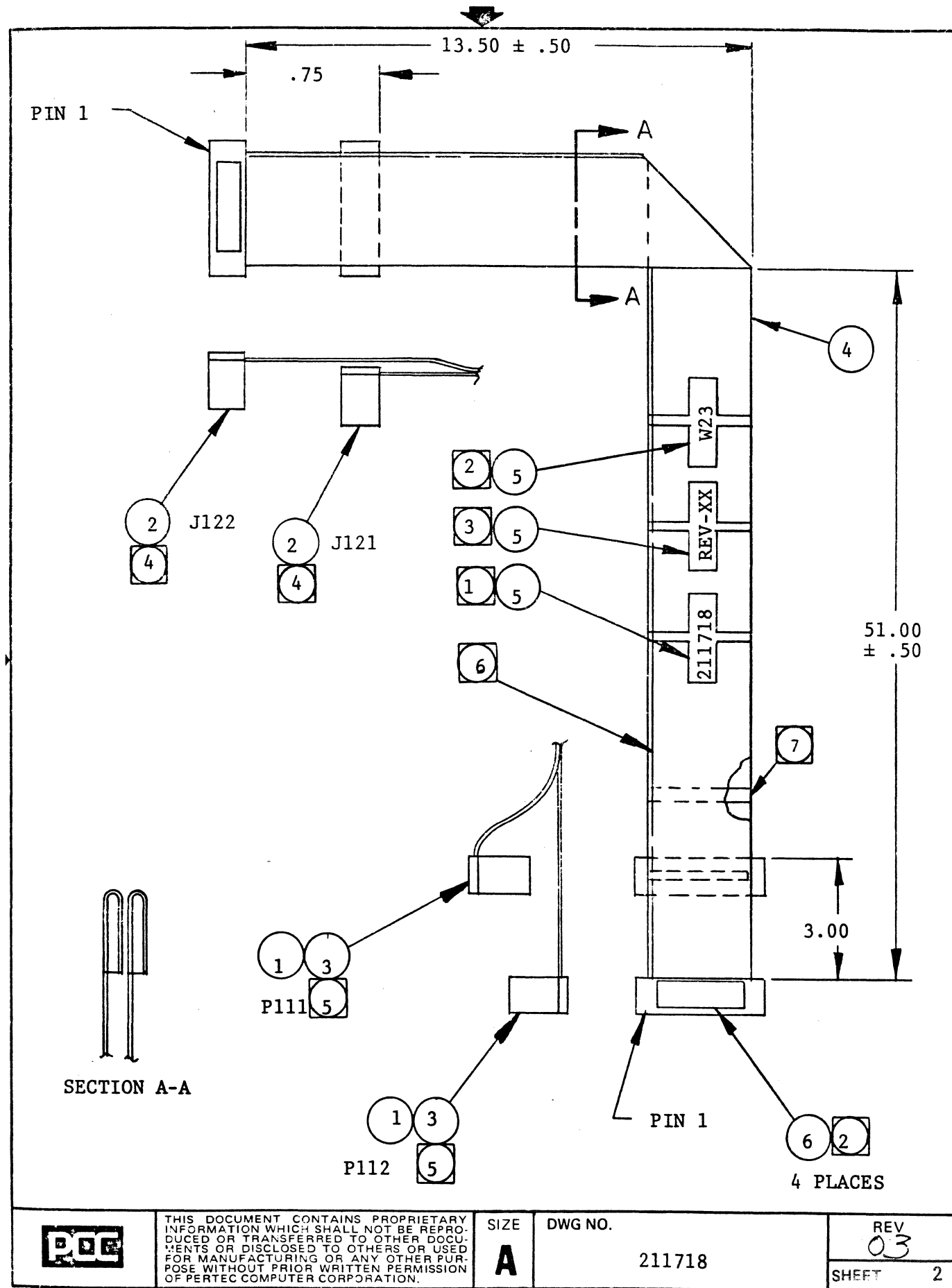
- UNLESS OTHERWISE SPECIFIED
- 1 TOLERANCES  
.xx ±.03 ANGULAR  
.xxx ±.010 ±0°30'
  - 2 REMOVE ALL BURRS
  - 3 BREAK ALL SHARP EDGES .010 APPROX
  - 4 MACH SURFACES 125 ✓ OR BETTER
  - 5 INTERPRET DWG PER MIL-D-1000
  - 6 DIM ARE IN INCHES

CODE IDENT. NO.	SIZE	DWG NO.	REV.
DC CODE 10	A	211717	03
SCALE	DO NOT SCALE DWG		SHEET 1 OF 3



**MATERIAL LIST**

Item No.	Quantity Required						Part No.	Nomenclature or Description	Reference Designation
						-000			
1						2	320258-011	CONNECTOR, SOCKET	P101,P102
2						AR	510122-000	CABLE, FLAT RIBBON	
3						2	320302-000	KEY, CONNECTOR, SOCKET	
4						2	320296-000	CONNECTOR, PLUG	J001,J002
5						AR	700027-000	LABEL, SELF ADHESIVE	
6						AR	703100-000	TAPE, FOAM, DOUBLE BACKED ADH	
7						2	340022-004	PULL TAB, RIBBON CABLE CONN	



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APPLICATION	
NEXT ASSY	MODEL
	NTP

REVISIONS				
REV	DESCRIPTION	DRFTG	APPVD	DATE
01	RELEASE PER DRO 282-79		EB	8/22/79
02	CODE 10 REL W/O CHANGES PER DCO 10499	LM	EB	4/19/80
03	INCORP DCO 10391	LM	EB	4/10/80

- 7 ATTACH CABLES USING ITEM 7 (TAPE) AS REQUIRED.
  - 6 REDLINE INDICATES PIN 1 LOCATION.
  - 5 INSTALL KEY (ITEM 3) BETWEEN PIN 23 AND PIN 25 OF P111 AND, BETWEEN PIN 37 AND 39 OF P112.
  - 4 REMOVE PIN 27 OF J121 AND PIN 18 OF J122.
  - 3 PERMANENTLY MARK "REV" AND APPROPRIATE REVISION LEVEL USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPEC 100034.
  - 2 PERMANENTLY MARK REF DESIGNATION USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPEC 100034.
  - 1 PERMANENTLY MARK ASSEMBLY NUMBER USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPEC 100034.
- NOTE: UNLESS OTHERWISE SPECIFIED.

DRAWN	MURRAY/kw	8-15-79
CHECK	TL ROULENDOZE	8-21-79
APPR	PS. Schumaker	8-21-79
RELEASE	G. Brubaker	8/22/79

**PERTEC COMPUTER CORPORATION**  
DATA SYSTEMS OPERATIONS DIVISION

TITLE  
CABLE, RIGID DISK INTERFACE (W23)

- UNLESS OTHERWISE SPECIFIED
- 1 TOLERANCES  
.xx ±.03 ANGULAR  
.xxx ±.010 ±0°30'
  - 2 REMOVE ALL BURRS
  - 3 BREAK ALL SHARP EDGES .010 APPROX
  - 4 MACH SURFACES 125 ✓ OR BETTER
  - 5 INTERPRET DWG PER ANS Y14
  - 6 DIM ARE IN INCHES

CODE IDENT. NO.	SIZE	DWG NO.	REV.
D C CODE	A	211718	03
SCALE	DO NOT SCALE DWG	SHEET 1 OF 3	

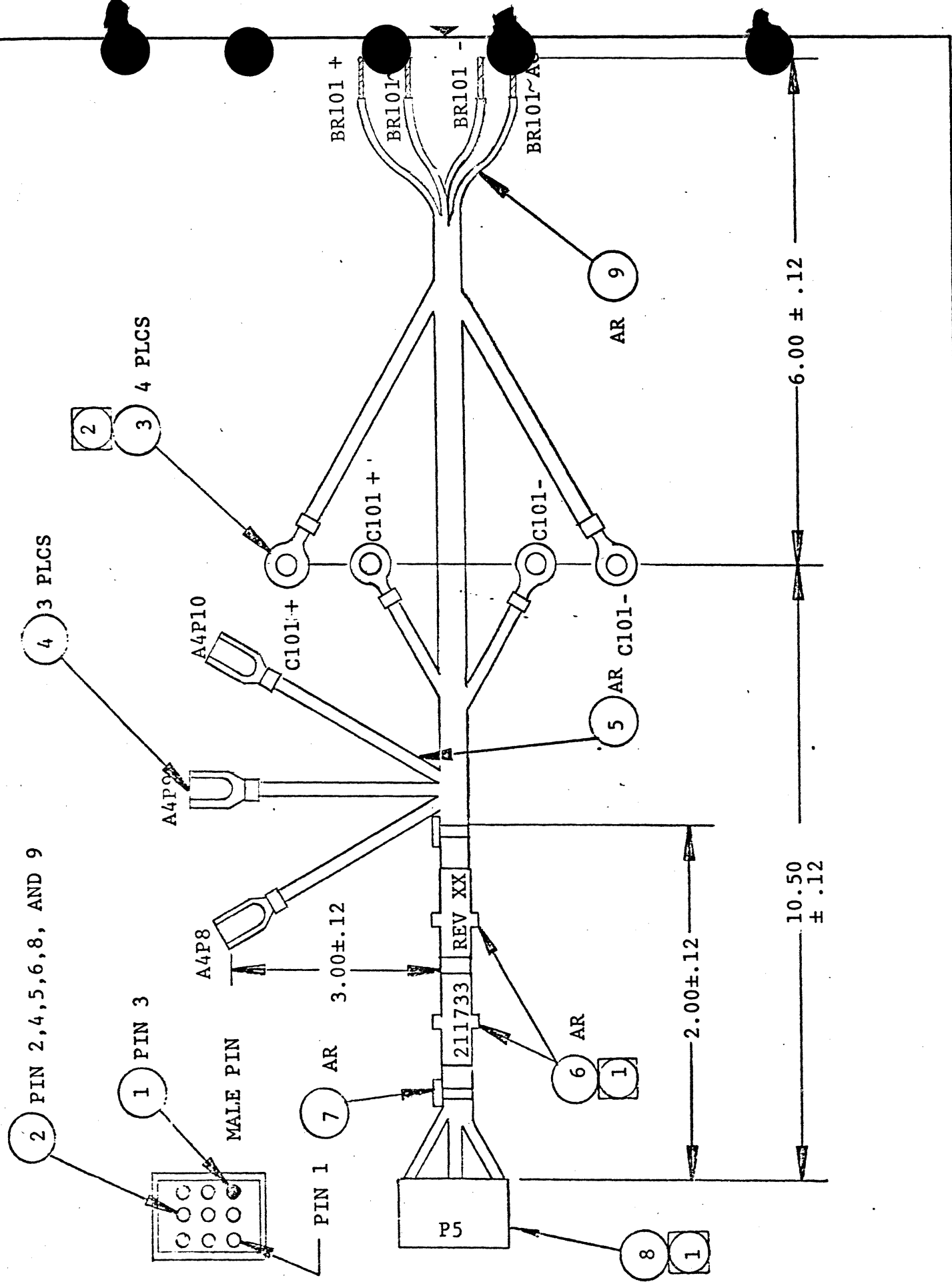


PERTEC  
COMPUTER  
CORPORATION

MATERIAL LIST

Sheet of	ML Dwg. No.	211718	Rev. 03
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Item No.	Quantity Required					Part No.	Nomenclature or Description	Reference Designation
					-000			
1					2	320279-003	CONNECTOR	P111, P112
2					2	320296-000	CONNECTOR	J122, J121
3					2	320279-001	KEY, CONNECTOR	
4					AR	510122-000	CABLE, RIBBON	
5					3	420019-000	TIE, IDENTIFICATION	
6					AR	700027-000	TAPE, IDENTIFICATION	
7					AR	703100-000	TAPE, FOAM, DOUBLE BACK ADH.	



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REV IS				
REV	DESCRIPTION	DRFTG	APPVD	DATE
01	RELEASE PER DRO 567-79		EB	12/12/79
02	INCOPR DCO 10197	MV/KW	EB	2/8/80
03	INCORP DCO 10443	MV/LM	EB	4/18/80
04	INCORP DCO 10639	TC/LM	EB	5/9/80
05	CODE 10 RELEASE W/O CHANGE PER DCO 10894	MV	EB	12/8/80

APPLICATION	
NEXT ASSY	MODEL
211659	XL20
	NTP
	XL40

- 2. IDENTIFY ALL LOOSE WIRE ENDS WITH APPROPRIATE TERMINATION DESIGNATION.
- 1. PERMANENTLY MARK ASSEMBLY NUMBER, "REV" AND APPROPRIATE REVISION LEVEL AND REF DESIGNATIONS AS SHOWN USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPECIFICATION 100034.

NOTE: UNLESS OTHERWISE SPECIFIED.

DISTRIBUTION CLASS C

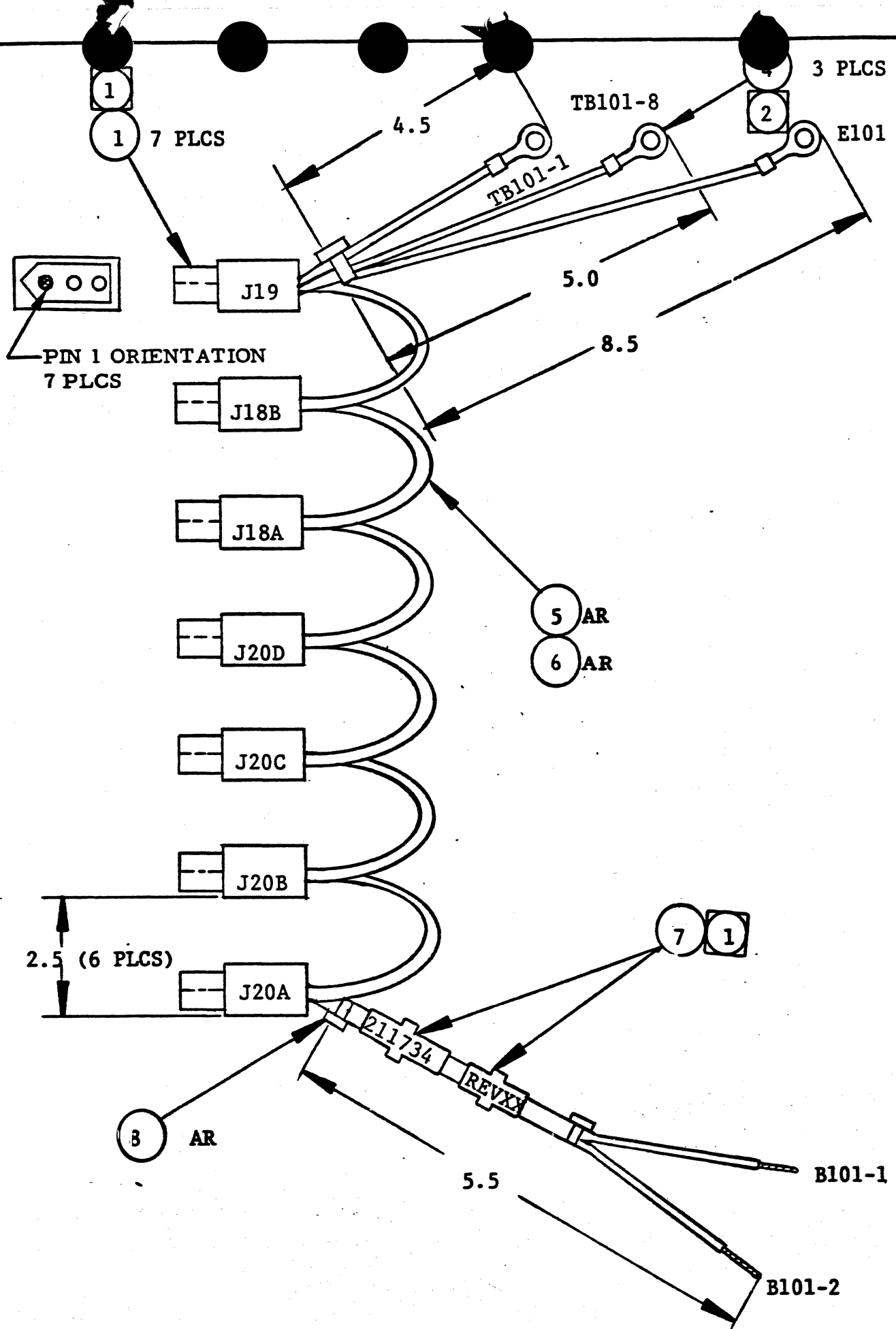
DRAWN	VEGA/kw	11-29-79
CHECK	<i>J. G. ...</i>	12/10/79
APPR	<i>Richard ...</i>	12-12-79
RELEASE	<i>G. ...</i>	12/12/79

**PERTEC COMPUTER CORPORATION**  
DATA SYSTEMS OPERATIONS DIVISION

TITLE  
**CABLE ASSY, SECONDARY CONTROL/POWER**

- UNLESS OTHERWISE SPECIFIED
- TOLERANCES  
.xx ±.03 ANGULAR  
.xxx ±.010 ±0°30'
  - REMOVE ALL BURRS
  - BREAK ALL SHARP EDGES  
.010 APPROX
  - MACH SURFACES 125 ✓ OR BETTER
  - INTERPRET DWG PER ANS Y14
  - DIM ARE IN INCHES

CODE IDENT. NO.	SIZE	DWG NO.	REV.
D C CODE 10	A	211733	05
SCALE	DO NOT SCALE DWG	SHEET 1 OF 4	



THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR TRANSFERRED TO OTHER DOCUMENTS OR DISCLOSED TO OTHERS OR USED FOR MANUFACTURING OR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN PERMISSION OF PERTEC COMPUTER CORPORATION.

REVISIONS				
REV	DESCRIPTION	DRFTG	APPVD	DATE
01	RELEASE PER DRO 567-79		EB	12/12/79
02	INCORP DCO 10197	MV/KW	EB	2/18/80
03	INCORP DCO 10450	MV/KW	EB	5/9/80
04	CODE 10 RELEASE W/O CHANGE PER DCO 10894	MV	EB	10/8/80
05	INCORP DCO 11870	MM/LM	WP/EB	4/7/81

APPLICATION	
NEXT ASSY	MODEL
211659	XL20
	NTP
	XL40

- 2 IDENTIFY ALL LOOSE WIRE ENDS WITH APPROPRIATE TERMINATION DESIGNATION.
- 1 PERMANENTLY MARK ASSEMBLY NUMBER, "REV" AND APPROPRIATE REVISION LEVEL, AND REF DESIGNATIONS AS SHOWN USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPECIFICATION 100034.

NOTE: UNLESS OTHERWISE SPECIFIED.

DISTRIBUTION CLASS C

DRAWN	VEGA/kw	11-29-79
CHECK	<i>T. Ueh</i>	12/10/79
APPR	<i>R. S.</i>	12-12-79
RELEASE	<i>G. B.</i>	12/12/79

**PCC PERTEC COMPUTER CORPORATION**  
DATA SYSTEMS OPERATIONS DIVISION

TITLE  
**CABLE ASSY, A.C. DISTRIBUTION**

- UNLESS OTHERWISE SPECIFIED
- TOLERANCES  
 .xx ±.03 ANGULAR  
 .xxx ±.010 ±0°30'
  - REMOVE ALL BURRS
  - BREAK ALL SHARP EDGES .010 APPROX
  - MACH SURFACES 125 ✓ OR BETTER
  - INTERPRET DWG PER ANS Y14
  - DIM ARE IN INCHES

CODE IDENT. NO.	SIZE	DWG NO.	REV.
D C CODE	<b>A</b>	211734	<b>05</b>
10			
SCALE	DO NOT SCALE DWG	SHEET 1	OF 6



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SIZE **A** DWG NO. 211734 REV **05** SHEET 2



Item No.	Quantity Required	Part No.	Nomenclature or Description	Reference Designation
1		7 320269-000	CONN, REC, NYLON	J018A, J018B, J019, J020A, J020B, J020C, J020D
2		7 320095-218	CRIMP PIN (MALE)	
3		14 320095-118	CRIMP PIN (FEMALE)	
4		3 320005-814	RING LUG	
5		AR 510144-013	WIRE, STRANDED, 150VRMS #20	
6		AR 510140-024	WIRE, STRANDED, #16, GRN/YEL	
7		2 420019-000	TIE, IDENTIFICATION	
8		AR 370016-100	TIE WRAP	

750406 03

ENGINEERING WIRE LIST

WIRE/COMP NO.	FROM		TO		WIRE ITEM NO.	SIGNAL	COLOR	REMARKS
	REF. DES.	TERM ITEM/TYPE	REF. DES.	TERM ITEM/TYPE				
11	J020-C1	1 2/1	J020-B1	2 2/1	5	AC DIST	WHITE	1 SAME LUG AS WIRE 8 2 SAME LUG AS WIRE 14
12	J020-C2	1 3/1	J020-B2	2 3/1	6	CHASSIS	GRN/YEL	1 SAME LUG AS WIRE 9 2 SAME LUG AS WIRE 15
13	J020-C3	1 3/1	J020-B3	2 3/1	5	AC NEUT	WHITE	1 SAME LUG AS WIRE 10 2 SAME LUG AS WIRE 16
14	J020-B1	2 2/1	J020-A1	1 2/1	5	AC DIST	WHITE	1 SAME LUG AS WIRE 17 2 SAME LUG AS WIRE 11
15	J020-B2	2 3/1	J020-A2	3/1	6	CHASSIS	GRN/YEL	2 SAME LUG AS WIRE 12
16	J020-B3	2 3/1	J020-A3	1 3/1	5	AC NEUT	WHITE	1 SAME LUG AS WIRE 18 2 SAME LUG AS WIRE 13
17	J020-A1	1 2/1	B101-1	S6T		AC DIST		1 SAME LUG AS WIRE 14
18	J020-A3	1 3/1	B101-2	S6T		AC NEUT		1 SAME LUG AS WIRE 16
19	J019-01	2 2/1	J018-B1	1 2/1	5	AC DIST	WHITE	1 SAME LUG AS WIRE 1 2 SAME LUG AS WIRE 23
20	J019-02	2 3/1	J018-B2	1 3/1	6	CHASSIS	GRN/YEL	1 SAME LUG AS WIRE 3 2 SAME LUG AS WIRE 2
21	J019-03	2 3/1	J018-B3	1 3/1	5	AC NEUT	WHITE	1 SAME LUG AS WIRE 4 2 SAME LUG AS WIRE 22
22	TB101-1	4	J019-03	2 3/1	5	AC NEUT	WHITE	2 SAME LUG AS WIRE 21

T=TIN WIRE  
S6=STRIP WIRE #375

INDICATES MULTIPLE WIRES TERMINATED IN A SINGLE LUG OR TERMINAL

ENGINEERING WIRE LIST

WIRE/COMP NO.	FROM		TO		WIRE ITEM NO.	SIGNAL	COLOR	REMARKS
	REF. DES.	TERM ITEM/TYPE	REF. DES.	TERM ITEM/TYPE				
1	J018-B1	1 2/1	J018-A1	3 2/1	5	AC DIST	WHITE	1 SAME LUG AS WIRE 19 3 SAME LUG AS WIRE 5
2	J019-02	2 3/1	E101	4	6	CHASSIS	GRN/YEL	2 SAME LUG AS WIRE 20
3	J018-B2	1 3/1	J018-A2	3 3/1	6	CHASSIS	GRN/YEL	1 SAME LUG AS WIRE 20 3 SAME LUG AS WIRE 6
4	J018-B3	1 3/1	J018-A3	3 3/1	5	AC NEUT	WHITE	1 SAME LUG AS WIRE 21 3 SAME LUG AS WIRE 7
5	J018-A1	3 2/1	J020-D1	2 2/1	5	AC DIST	WHITE	2 SAME LUG AS WIRE 8 3 SAME LUG AS WIRE 1
6	J018-A2	3 3/1	J020-D2	2 3/1	6	CHASSIS	GRN/YEL	3 SAME LUG AS WIRE 3 2 SAME LUG AS WIRE 9
7	J018-A3	3 3/1	J020-D3	2 3/1	5	AC NEUT	WHITE	2 SAME LUG AS WIRE 10 3 SAME LUG AS WIRE 4
8	J020-D1	2 2/1	J020-C1	1 2/1	5	AC DIST	WHITE	1 SAME LUG AS WIRE 11 2 SAME LUG AS WIRE 5
9	J020-D2	2 3/1	J020-C2	1 3/1	6	CHASSIS	GRN/YEL	1 SAME LUG AS WIRE 12 2 SAME LUG AS WIRE 6
10	J020-D3	2 3/1	J020-C3	1 3/1	5	AC NEUT	WHITE	1 SAME LUG AS WIRE 13 2 SAME LUG AS WIRE 7

T=TIN WIRE  
S6=STRIP WIRE #375

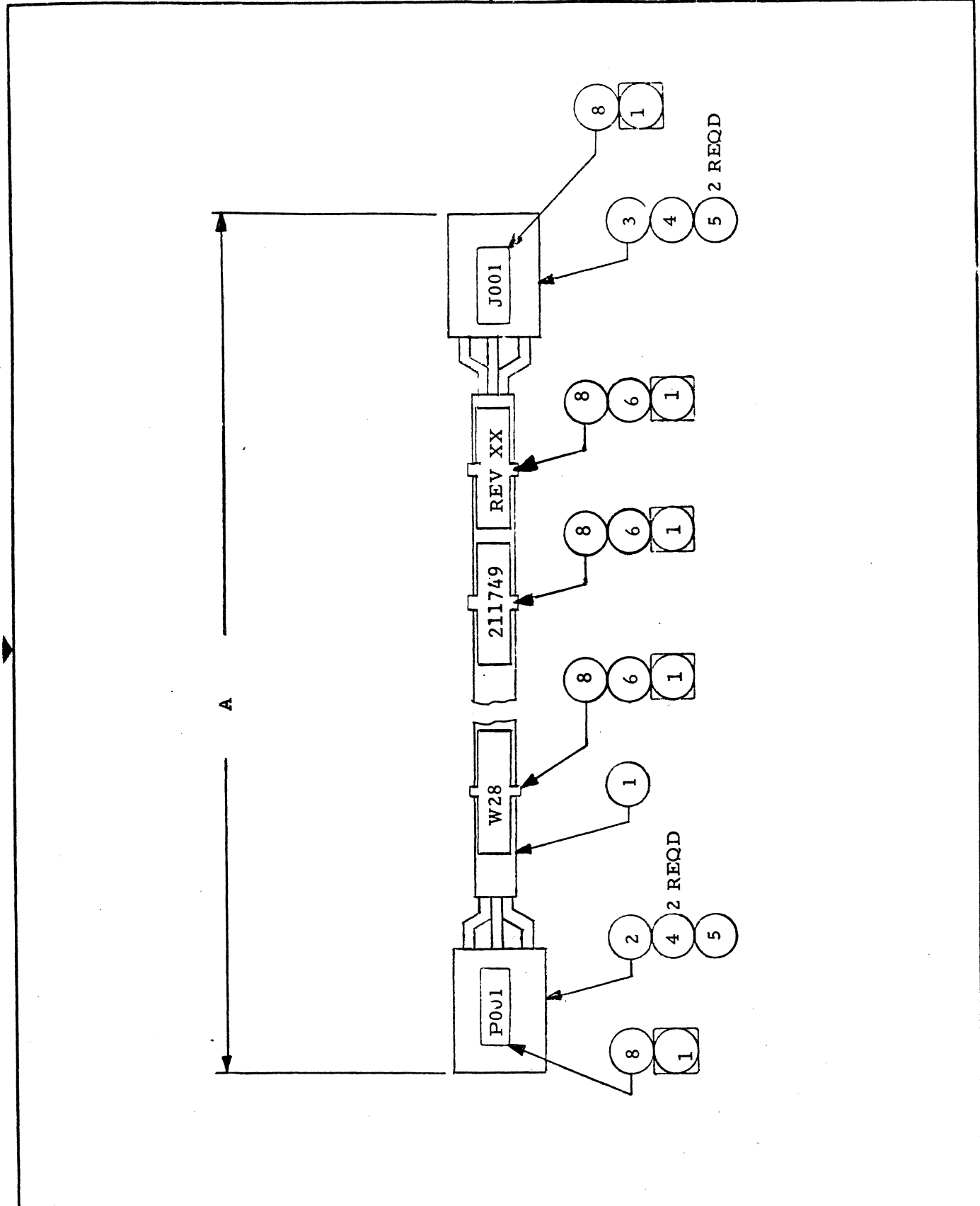
INDICATES MULTIPLE WIRES TERMINATED IN A SINGLE LUG OR TERMINAL

ENGINEERING WIRE LIST

WIRE/COMP NO.	FROM		TO		WIRE ITEM NO.	SIGNAL	COLOR	REMARKS
	REF. DES.	TERM ITEM/TYPE	REF. DES.	TERM ITEM/TYPE				
23	TB101-8	4	J019-01	2 2/1	5	AC DIST	WHITE	2 SAME LUG AS WIRE 19

T=TIN WIRE  
S6=STRIP WIRE #375

INDICATES MULTIPLE WIRES TERMINATED IN A SINGLE LUG OR TERMINAL



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		<b>A</b>	211749	03
			SHEET	2

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		REV	DESCRIPTION	DRFTG	APPVD	DATE
APPLICATION		01	RELEASE PER DRO 546-79		EB	12/21/79
NEXT ASSY	MODEL	02	SEE VARIATION DCO 10028	LM	EB	4/9/80
MULTI	NTP	03	CODE 10 REL W/O CHANGES PER DCO 10499	LM	EB	4/9/80 (R)

DASH NO.	DIMENSION A
-000	37.00 ± 1.00
-002	100.00 ± 1.50

3. PURCHASED CABLES MUST BE CSA CERTIFIED FOR USE IN ELECTRONIC DATA PROCESSING EQUIPMENT.
  2. CABLE TO BE PURCHASED FROM A U.L. LISTED MANUFACTURER OR MANUFACTURED UNDER PCC CONTROL.
- 1 PERMANENTLY MARK ASSEMBLY NUMBER, "REV" AND APPROPRIATE REVISION LEVEL, AND REF DESIGNATION USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPECIFICATION 100034.

NOTE: UNLESS OTHERWISE SPECIFIED.

DRAWN	F CLARK/kw12-5-79	<b>PERTEC COMPUTER CORPORATION</b> DATA SYSTEMS OPERATIONS DIVISION	
CHECK	<i>J. E. ...</i> 12-6-79		
APPR	<i>Frank ...</i> 12 Dec 79		
RELEASE	<i>G. B. ...</i> 12/2/79		
UNLESS OTHERWISE SPECIFIED 1 TOLERANCES .xx ±.03 ANGULAR .xxx ±.010 ±0°30' 2 REMOVE ALL BURRS 3 BREAK ALL SHARP EDGES .010 APPROX 4 MACH SURFACES 125 ✓ OR BETTER 5 INTERPRET DWG PER ANS Y14 6 DIM ARE IN INCHES		TITLE  <b>CABLE, EXTENSION (W28)</b>	
CODE IDENT. NO.	SIZE	DWG NO.	REV.
D C CODE	<b>A</b>	211749	03
SCALE	DO NOT SCALE DWG	SHEET 1 OF 4	



MATERIAL LIST

Item No.	Quantity Required						Part No.	Nomenclature or Description	Reference Designation
					-002	-000			
1					AR	AR	510149-003	CORD, 3 CONDUCTOR	
2					1	1	320274-000	CONN, PLUG	
3					1	1	320269-002	CONN, RECEPTACLE	
4					3	3	320095-214	CONTACT, MALE	
5					3	3	320095-114	CONTACT, FEAMLE	
6					3	3	420019-000	TIE, IDENTIFICATION	
7									
8					5	5	740005-000	LABEL	

790406-03

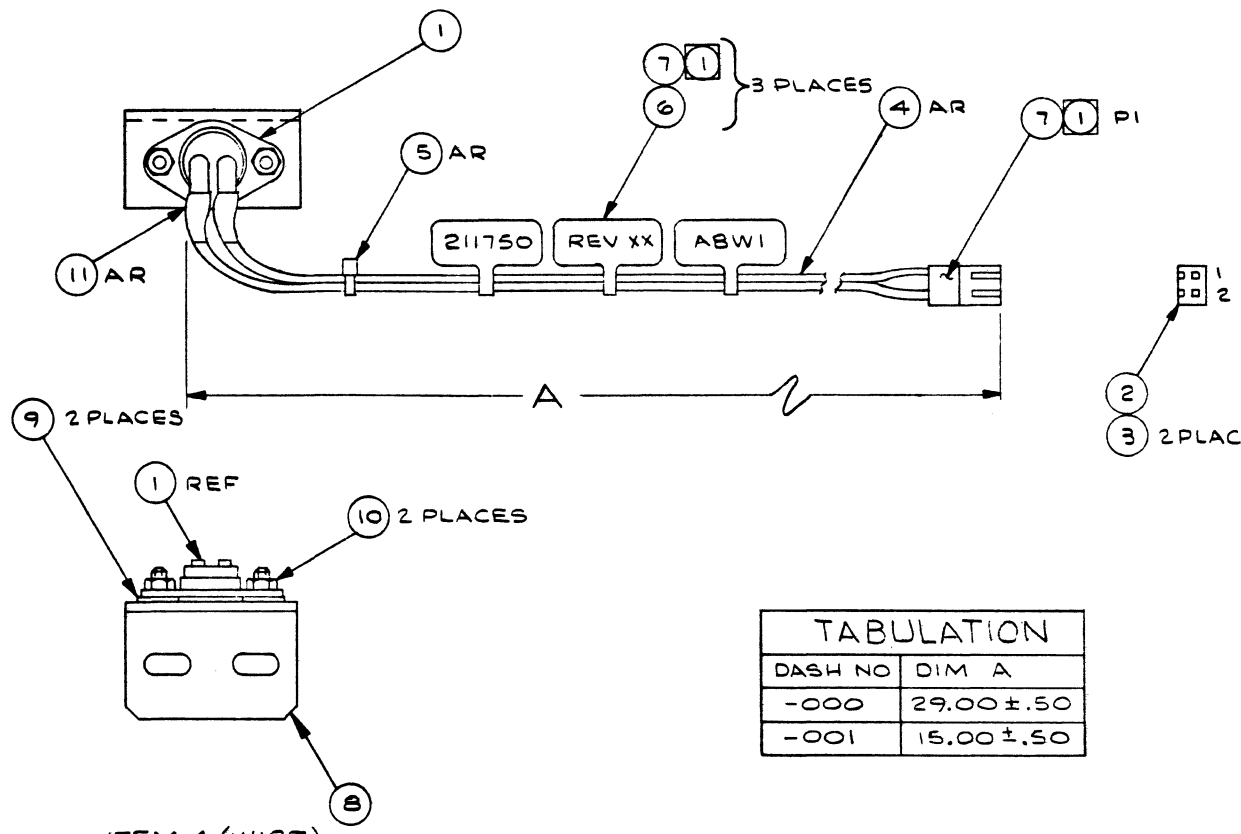


ENGINEERING WIRE LIST

WIRE/ COMP NO.	FROM		TO		WIRE ITEM NO.	SIGNAL	COLOR	REMARKS		
	REF. DES.	TERM ITEM/ TYPE	REF. DES.	TERM ITEM/ TYPE						
1	P001-01	4	J001-01	5	1	ACHI	BROWN			
2	P001-02	4	J001-02	5	1	GND	GRN/YEL			
3	P001-03	5	J001-03	4	1	ACLO	BLUE			
T = TIN WIRE S6 = STRIP WIRE .375							DWG NO	211749	REV	03
							SHEET	4		

790242-02

REVISIONS			
SYM	DESCRIPTION	DRFTG	APPROVED DATE
01	RELEASE PER DRO		EB 12/12/79
02	CODE 10 REL W/O CHANGE PER DCO 10499	MV	EB 4/1/83
03	INCRP DCD 10478	MV	EB 4/18/81



- NOTE: UNLESS OTHERWISE SPECIFIED**
- PERMANENTLY MARK ASSEMBLY NUMBER, "REV" AND APPROPRIATE REVISION LEVEL, AND REF DESIGNATION USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPECIFICATION 100034.
  - CABLE TO BE PURCHASED FROM A U.L. LIST MANUFACTURER OR MANUFACTURED UNDER PCC CONTROL.
  - PURCHASE CABLES MUST BE CSA CERTIFIED FOR USE IN ELECTRONIC DATA PROCESSING EQUIPMENT.

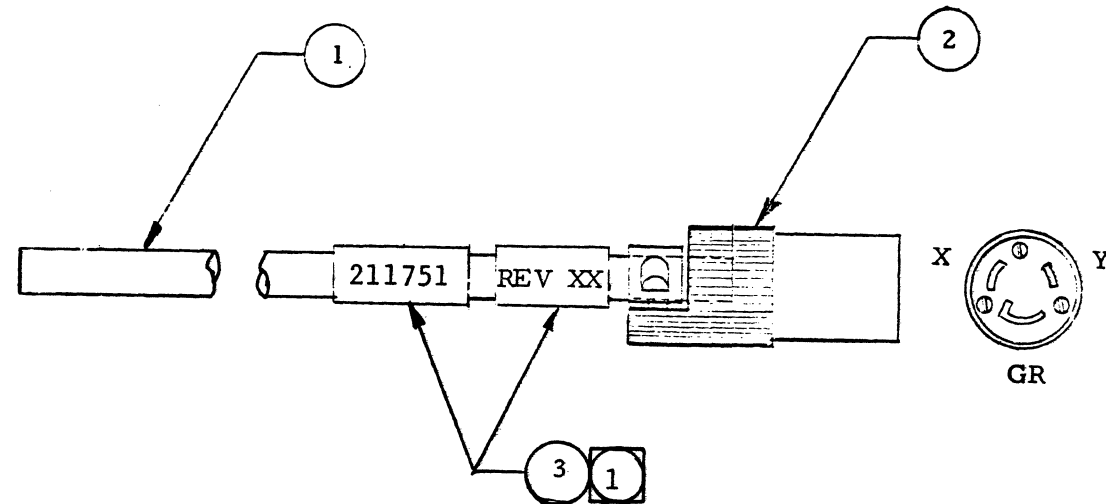
TABULATION	
DASH NO	DIM A
-000	29.00 ±.50
-001	15.00 ±.50

ITEM 4 (WIRE)  
OMITTED FOR  
CLARITY

ITEM NO.	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION
<b>MATERIAL LIST</b>			
UNLESS OTHERWISE SPECIFIED		DRAWN	F. CLARK 12/5/79
1 TOLERANCES xx ±.030 ANGULAR xxx ±.010 90°/30°		CHECK	12-7-79
2 REMOVE ALL BURRS		APPR	12/21/79
3 BREAK ALL SHARP EDGES 010 APPROX		RELEASE	5. Encl 12/21/79
4 MACH SURFACES 125° OR BETTER		THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR TRANSFERRED TO OTHER DOCUMENTS OR DISCLOSED TO OTHERS OR USED FOR MANUFACTURING OR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN PERMISSION OF PERTEC BUSINESS SYSTEMS	
5 INTERPRET DWG PER MIL D 1000		<div style="text-align: center;"><b>PERTEC BUSINESS SYSTEMS</b></div> <div style="text-align: center;">TITLE</div> <div style="text-align: center; font-size: 1.2em;">THERMOSTAT ASSY</div>	
6 DIM ARE IN INCHES			
MATERIAL	—		
FINISH	—		
CODE IDENT NO	SIZE	DWG NO	REV
DCC CODE	C	211750	03
SCALE	NONE	DO NOT SCALE DWG	SHEET 1 OF 3

MULTI	I	NTP	—
NEXT ASSY	QTY	MODEL	QTY
APPLICATION			





FROM ITEM 2	TO WIRE COLOR	SIGNAL
PIN Y	BROWN	ACLIN-1
PIN X	BLUE	ACLIN-2
PIN GR	GREEN/ YELLOW	GND

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REVISIONS

REV	DESCRIPTION	DRFTG	APPVD	DATE
01	RELEASE PER DRO 566-79		EB	12/2/79
02	INCORP DCO 10476	MV	TLR EB	5/5/80

APPLICATION

NEXT ASSY	MODEL
211646	NTP
MULTI	XL40

4. PURCHASED CABLES MUST BE CSA CERTIFIED FOR USE IN ELECTRONIC DATA PROCESSING EQUIPMENT.
3. CABLE TO BE PURCHASED FROM A U.L. LISTED MANUFACTURER OR MANUFACTURED UNDER PCC CONTROL.
2. CABLE SHALL MEET THE PROVISIONS OF PERTEC SPECIFICATION 100277.
1. PERMANENTLY MARK ASSEMBLY NUMBER, "REV" AND APPROPRIATE REVISION LEVEL, USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPECIFICATION 100034.

NOTE: UNLESS OTHERWISE SPECIFIED.

DRAWN	F. CLARK/kw	12-5-79	<b>PERTEC COMPUTER CORPORATION</b> DATA SYSTEMS OPERATIONS DIVISION
CHECK	J. Green	12-7-79	
APPR	F. M. Smith	12-11-79	
RELEASE	G. B. Smith	12/12/79	
UNLESS OTHERWISE SPECIFIED 1 TOLERANCES .xx ±.03 ANGULAR .xxx ±.010 ±0°30' 2 REMOVE ALL BURRS 3 BREAK ALL SHARP EDGES .010 APPROX 4 MACH SURFACES 125 ✓ OR BETTER 5 INTERPRET DWG PER ANS Y14 6 DIM ARE IN INCHES			TITLE  <b>CORD, 250VAC, 20A INTERNATIONAL POWER</b>
CODE IDENT. NO.	SIZE	DWG NO.	REV.
D C CODE	10 <b>A</b>	211751	02
SCALE	DO NOT SCALE DWG		SHEET 1 OF 3



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SIZE **A**

DWG NO. 211751

REV. 02  
SHEET 2



MATERIAL LIST

Sheet 3 of

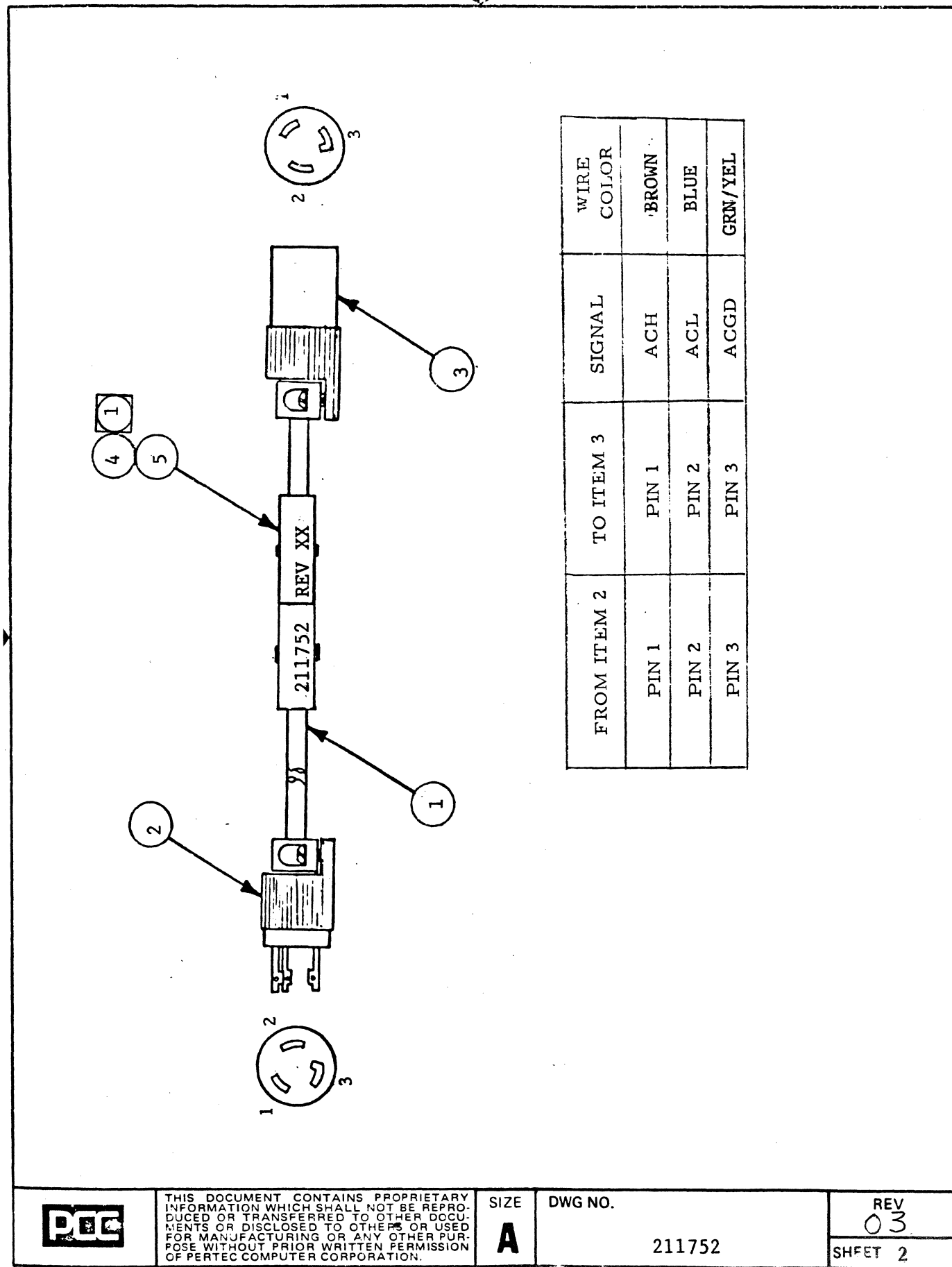
ML  
Dwg. No.

211751

Rev.

02

Item No.	Quantity Required					Part No.	Nomenclature or Description	Reference Designation
					-000			
1					12FT	510149-004	CORD, 3 CONDUCTOR POWER	
2					1	320159-000	CONNECTOR, (NEMA L6-20R)	
3					2	420019-000	TIE, IDENTIFICATION	
4								



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REVISIONS				
REV	DESCRIPTION	DRFTG	APPVD	DATE
01	RELEASE PER DRO		EB	12/12/79
02	SEE VARIATION DCO 10028	LM	EB	4/19/80
03	CODE 10 REL W/O CHANGES PER DCO 10499	LM	EB	4/19/80

APPLICATION	
NEXT ASSY	MODEL
MULTI	NTP

4. PURCHASED CABLES MUST BE CSA CERTIFIED FOR USE IN ELECTRONIC DATA PROCESSING EQUIPMENT.
3. CABLE TO BE PURCHASED FROM A U.L. LISTED MANUFACTURER OR MANUFACTURED UNDER PCC CONTROL.
2. CABLE SHALL MEET THE PROVISIONS OF PERTEC SPEC. 100277.
1. PERMANENTLY MARK ASSY NO, "REV" AND APPROPRIATE REVISION LEVEL USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPECIFICATION 100034.

NOTE: UNLESS OTHERWISE SPECIFIED.

DRAWN	F. CLARK/kw	12-5-79	<b>PERTEC COMPUTER CORPORATION</b> <small>DATA SYSTEMS OPERATIONS DIVISION</small>
CHECK	<i>[Signature]</i>	12-7-79	
APPR	<i>[Signature]</i>	12 Dec 79	
RELEASE	<i>[Signature]</i>	12/12/79	
UNLESS OTHERWISE SPECIFIED 1 TOLERANCES .xx ±.03 ANGULAR .xxx ±.010 ±0°30' 2 REMOVE ALL BURRS 3 BREAK ALL SHARP EDGES .010 APPROX 4 MACH SURFACES 125 OR BETTER ✓ 5 INTERPRET DWG PER ANS Y14 6 DIM ARE IN INCHES			TITLE  <b>CABLE, AC POWER 125VAC</b>
CODE IDENT. NO.	SIZE	DWG NO.	REV.
D C CODE 10	<b>A</b>	211752	<b>03</b>
SCALE	DO NOT SCALE DWG	SHEET 1 OF 3	





PERTEC  
COMPUTER  
CORPORATION

# MATERIAL LIST

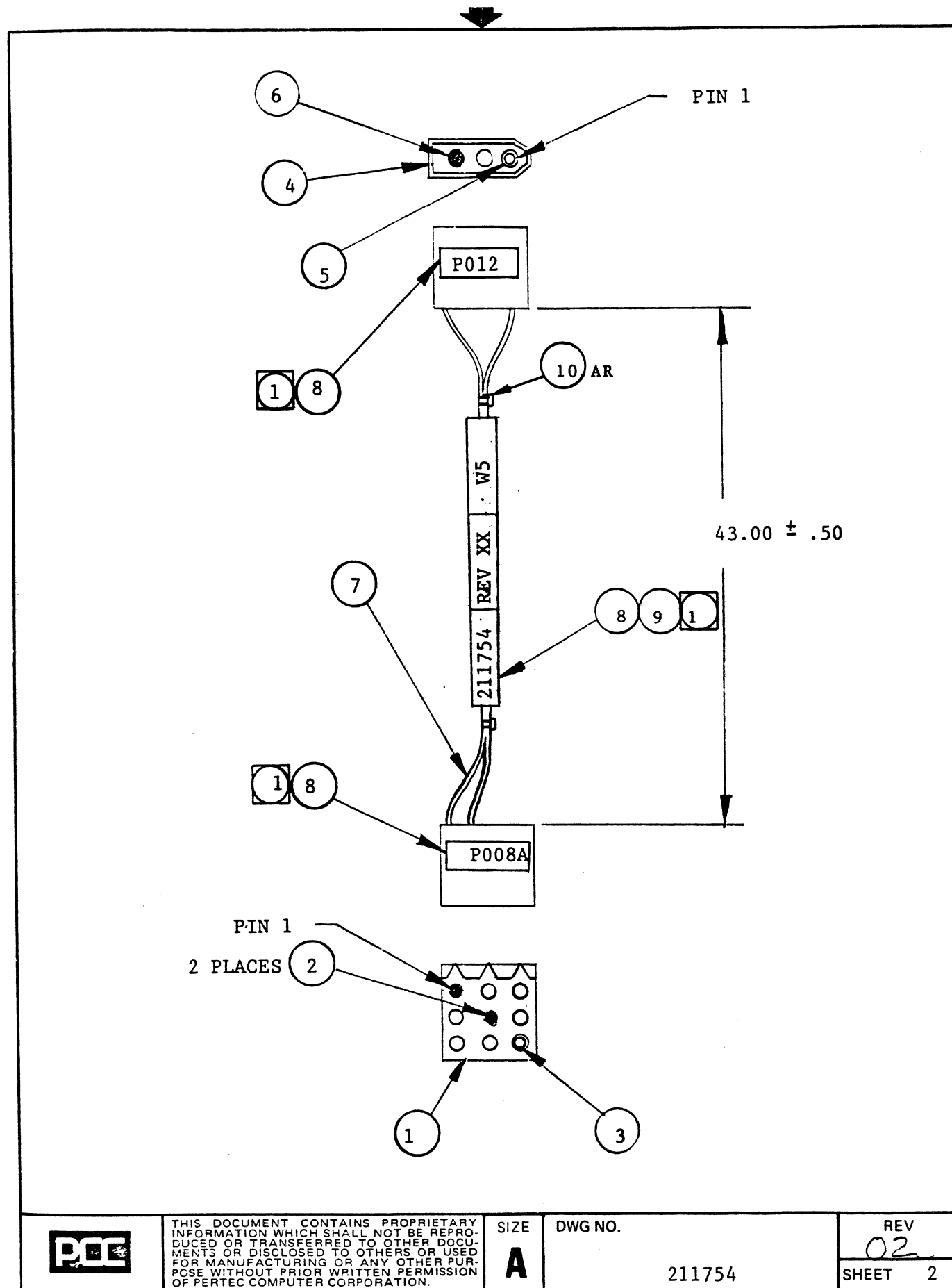
Sheet 3 of

ML  
Dwg. No.

211752

Rev.  
03

Item No.	Quantity Required					Part No.	Nomenclature or Description	Reference Designation
					-000			
1					12FT	510149-007	CORD, 600V POWER	
2					1	320218-000	CONNECTOR, PLUG	
3					1	320220-000	CONNECTOR, 125V	
4					2	420019-000	TIE, IDENTIFICATION	
5					2	740005-000	LABEL, SELF-ADHESIVE	



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APPLICATION	
NEXT ASSY	MODEL
211646	NTP

REVISIONS				
REV	DESCRIPTION	DRFTG	APPVD	DATE
01	RELEASE PER DRO 5/6/79		EB	12/12/79
02	CODE 10 REL W/O CHANGES PER DCO 10499	LM	EB	4/19/80

3. PURCHASED CABLES MUST BE CSA CERTIFIED FOR USE IN ELECTRONIC DATA PROCESSING EQUIPMENT.
2. CABLE TO BE PURCHASED FROM A U.L. LISTED MANUFACTURER OR MANUFACTURED UNDER PCC CONTROL.
1. PERMANENTLY MARK ASSEMBLY NUMBER, "REV" AND APPROPRIATE REVISION LEVEL, AND REF DESIGNATION USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPECIFICATION 100034.

NOTE: UNLESS OTHERWISE SPECIFIED.

DRAWN	F CLARK/kw	12-5-79
CHECK	TL ROGGENDORF	12-6-79
APPR	Fred Michael	12 Dec 79
RELEASE	G. Bink	12/12/79

**PCC PERTEC COMPUTER CORPORATION**  
DATA SYSTEMS OPERATIONS DIVISION

TITLE  
CABLE ASSY, AC CONTROL (W5)

- UNLESS OTHERWISE SPECIFIED
- 1 TOLERANCES  
.xx ±.03 ANGULAR  
.xxx ±.010 ±0°30'
  - 2 REMOVE ALL BURRS
  - 3 BREAK ALL SHARP EDGES .010 APPROX
  - 4 MACH SURFACES 125 ✓ OR BETTER
  - 5 INTERPRET DWG PER ANS Y14
  - 6 DIM ARE IN INCHES

CODE IDENT. NO.	SIZE	DWG NO.	REV.
D C CODE 10	A	211754	02
SCALE	DO NOT SCALE DWG	SHEET 1 OF 4	

MATERIAL LIST

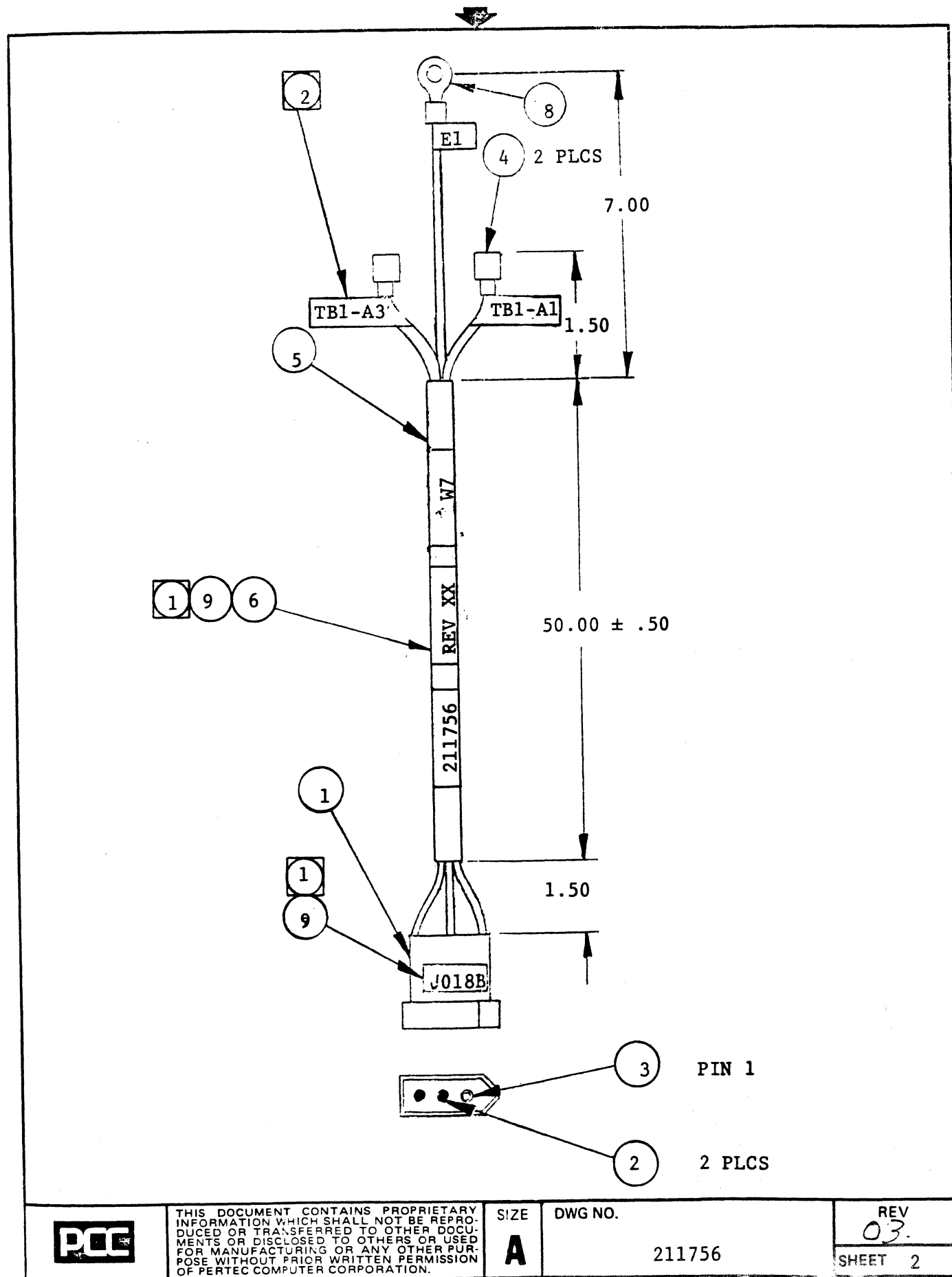
Item No.	Quantity Required					Part No.	Nomenclature or Description	Reference Designation
					-000			
1						1 320012-095	CONNECTOR, NYLON .093 SERIES	P008A
2						2 320095-218	CONTACT, .093 SERIES (M)	
3						1 320095-118	CONTACT, .093 SERIES (F)	
4						1 320002-032	CONNECTOR	P012
5						1 320001-118	CONTACT, CONNECTOR (F)	
6						1 320001-218	CONTACT, CONNECTOR (M)	
7						AR 510144-016	WIRE, STRANDED, INSULATED (80 ° C 150V)	
8						5 740005-000	LABEL, SELF-ADHESIVE	
9						3 420019-000	TIE, IDENTIFICATION	
10						AR 370016-XXX	TIE, WRAP	

790406-03

ENGINEERING WIRE LIST

WIRE/ COMP NO.	FROM		TO		WIRE ITEM NO.	SIGNAL	COLOR	REMARKS	
	REF. DES.	TERM ITEM/TYPE	REF. DES.	TERM ITEM/TYPE					
1	P008A-01	2	P012-03	6	7		WHITE		
2	P008A-05	2	P012-01	5	7		WHITE		
T=TIN WIRE S6=STRIP WIRE .375							DWG NO	211754	REV 02
							SHEET	4	

790342-02



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		REV	DESCRIPTION	DRTG	APPVD
APPLICATION		01	RELEASE PER DRO	EB	12/2/79
NEXT ASSY	MODEL	02	SEE VARIATION DCO 10028	LM	EB 4/9/80
211646	NTP	03	CODE 10 REL W/O CHANGES PER DCO 10499	LM	EB 4/9/80

4. PURCHASED CABLES MUST BE CSA CERTIFIED FOR USE IN ELECTRONIC DATA PROCESSING EQUIPMENT.
3. CABLE TO BE PURCHASED FROM A U.L. LISTED MANUFACTURER OR MANUFACTURED UNDER PCC CONTROL.
- 2 IDENTIFY ALL LOOSE WIRE ENDS WITH APPROPRIATE TERMINATION DESIGNATION.
- 1 PERMANENTLY MARK ASSEMBLY NUMBER, "REV" AND APPROPRIATE REVISION LEVEL, AND REF DESIGNATIONS USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPECIFICATION 100034.

NOTE: UNLESS OTHERWISE SPECIFIED.

DRAWN	F. CLARK/kw	12-5-79				
CHECK	<i>J. G. ...</i>	12-7-79				DATA SYSTEMS OPERATIONS DIVISION
APPR	<i>Frank McNeil</i>	12 Dec 79	TITLE			
RELEASE	<i>G. B. ...</i>	12/12/79	CABLE, FAN (W7)			
UNLESS OTHERWISE SPECIFIED			CODE IDENT. NO.	SIZE	DWG NO.	REV.
1 TOLERANCES .xx ±.03 ANGULAR .xxx ±.010 ±0°30' 2 REMOVE ALL BURRS 3 BREAK ALL SHARP EDGES .010 APPROX 4 MACH SURFACES 125 ✓ OR BETTER 5 INTERPRET DWG PER ANS Y14 6 DIM ARE IN INCHES			D C CODE	A	211756	03
			SCALE	DO NOT SCALE DWG	SHEET 1 OF 4	

MATERIAL LIST

Item No.	Quantity Required					Part No.	Nomenclature or Description	Reference Designation
					-000			
1						320274-000	CONNECTOR	
2						320095-214	CONTACT, CONNECTOR (M)	
3						320095-114	CONTACT, CONNECTOR (F)	
4						320039-014	TERMINAL, PUSH ON	
5					AR	510149-003	CORD, POWER (INTERNATIONAL)	
6						420019-000	TIE, IDENTIFICATION	
7								
8						320005-614	TERMINAL, RING TONGUE	
9						740005-000	LABEL, SELF-ADHESIVE	

790406-03

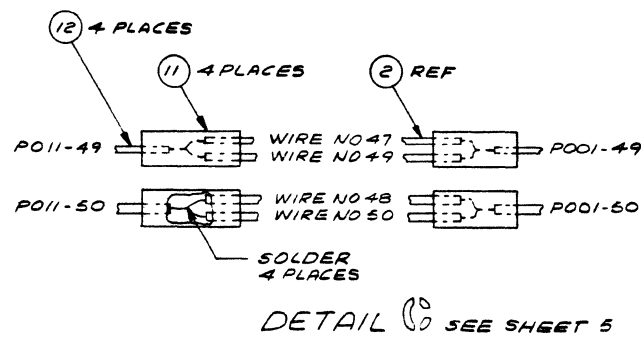
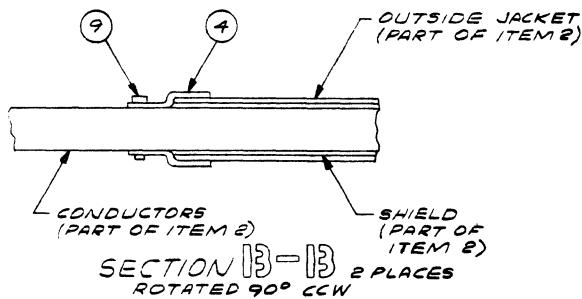
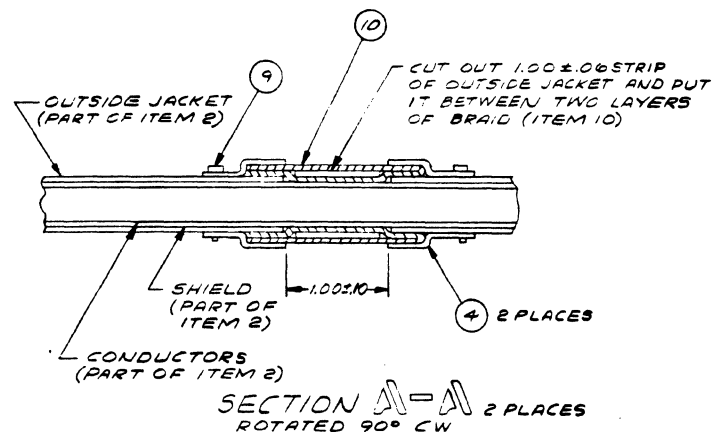
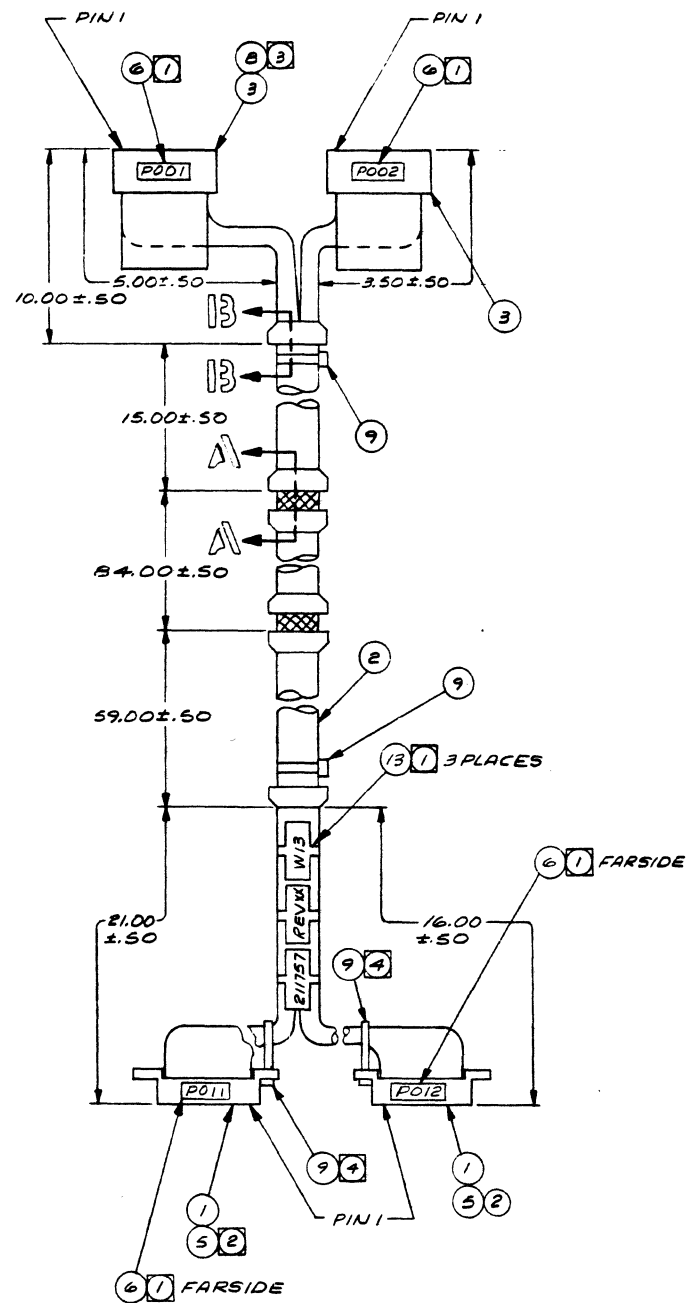
ENGINEERING WIRE LIST

WIRE/COMP NO.	FROM		TO		WIRE ITEM NO.	SIGNAL	COLOR	REMARKS		
	REF. DES.	TERM ITEM/TYPE	REF. DES.	TERM ITEM/TYPE						
1	J018B-01	3	TB1-A1	4	5		BLU			
2	J018B-02	2	E1	8			GRN/YEL			
3	J018B-03	2	TB1-A3	4			BRN			
T=TIN WIRE S6=STRIP WIRE .375							DWG NO	211756	REV	03
							SHEET	4		

790242-02

8 7 6 5 4 3 2 1

REVISIONS				
SYM	DESCRIPTION	DRFTG	APPROVED	DATE
01	RELEASE PER DBO		PE	1/18
02	CODE 10 REL. W/O CHANGE PER DCG 10496		PE	1/18



- NOTE: UNLESS OTHERWISE SPECIFIED**
- 1 PERMANENTLY MARK ASSEMBLY NUMBER "REV" AND APPROPRIATE REVISION LEVEL AND REF DESIGNATION USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPECIFICATION 100034.
  - 2 INSTALL ITEM 5 BETWEEN PIN 7 AND 9 OF PO11 AND BETWEEN PINS 25 AND 27 OF PO12.
  - 3 INSTALL ITEM 8 (CONNECTOR KEY) AT PIN 44 OF PO1.
  - 4 SECURE CABLE TO CONNECTOR BY USE OF A TIE WRAP (ITEM 9) ROUTED THRU THE CONNECTOR MOUNTING HOLE.

ITEM NO	QTY	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION		
MATERIAL LIST					
UNLESS OTHERWISE SPECIFIED		DRAWN	F. CLARK 1/11/79		
1 TOLERANCES		CHECK	L. ROULENDE 12-19-79		
2 REMOVE ALL BURNS		APPR			
3 BREAK ALL SHARP EDGES		RELEASE	A. B. 1/18/80		
4 MACH SURFACES 125 / DR		TITLE			
5 BETTER		<p style="font-size: small;">THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR DISCLOSED TO OTHERS OR USED FOR MANUFACTURING OR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN PERMISSION OF PERTEC COMPUTER CORP.</p>			
6 DIM ARE IN INCHES				CABLE, TAPE # 1 (W13)	
MATERIAL				CODE IDENT NO	SIZE DWG NO
FINISH				D.C. CODE	REV
APPLICATION		SCALE	DO NOT SCALE DWG		
		SHEET	1 OF 7		

203090	1	NTP	-
NEXT ASSY	27	MODEL	QTY

Item No.	Quantity Required	Part No.	Nomenclature or Description	Reference Designation
1		320279-000	CONNECTOR, CARD EDGE, IDC	P011,P012
2	AR	510132-001	CABLE, 28AWG TWISTED PAIR	
3		320258-011	CONNECTOR, SOCKET, IDC	P001,P002
4	AR	420001-750	TUBING, SHRINK	
5		320279-001	KEY, CONNECTOR CARD EDGE	
6	AR	700027-000	TAPE, IDENTIFICATION (BLACK)	
7		340022-004	PULL TAB, RIBBON CABLE CONN.	
8		320302-000	KEY, IDC SOCKET	
9	AR	370016-XXX	TIE, WRAP	
10	AR	510093-010	BRAID	
11	AR	420001-125	TUBING, SHRINK	
12	AR	510025-928	WIRE, 28AWG UL 1061	
13		420019-000	TIE, IDENTIFICATION	

### ENGINEERING WIRE LIST

WIRE/COMP NO.	FROM		TO		WIRE ITEM NO.	SIGNAL	COLOR	REMARKS
	REF. DES.	TERM ITEM/TYPE	REF. DES.	TERM ITEM/TYPE				
1	P011-1(A1)	1	P001-1	3	2	RTN	WHITE	TWISTED PAIR
2	2(B1)					1SLT3		
3	3(A2)					RTN		
4	4(B2)					1SLT2		
5	5(A3)					RTN		
6	6(B3)					1RDP		
7	7(A4)					RTN		
8	8(B4)					1RDS		
9	9(A5)					RTN		
10	10(B5)					1RD0		
11	11(A6)					RTN		
12	12(B6)					1RD1		
13	13(A7)					RTN		
14	14(B7)					1RD2		
15	15(A8)					RTN		
16	16(B8)					1RD3		
17	17(A9)					RTN		
18	18(B9)					1RD4		
19	19(A10)					RTN		
20	P011-20(B10)	1	P001-20	3	2	1RD5	WHITE	TWISTED PAIR

T=TIN WIRE  
S6=STRIP WIRE .375

DWG NO. 211757  
REV. 02  
SHEET 3

### ENGINEERING WIRE LIST

WIRE/COMP NO.	FROM		TO		WIRE ITEM NO.	SIGNAL	COLOR	REMARKS
	REF. DES.	TERM ITEM/TYPE	REF. DES.	TERM ITEM/TYPE				
21	P011-21(A11)	1	P001-21	3	2	RTN	WHITE	TWISTED PAIR
22	22(B11)					1RD6		
23	23(A12)					RTN		
24	24(B12)					1RD7		
25	25(A13)					RTN		
26	26(B13)					1E0T		
27	27(A14)					RTN		
28	28(B14)					1SGL		
29	29(A15)					RTN		
30	30(B15)					1NRZ		
31	31(A16)					RTN		
32	32(B16)					17TR		
33	33(A17)					RTN		
34	34(B17)					1SPD		
35	35(A18)					RTN		
36	36(B18)					1KWD		
37	37(A19)					RTN		
38	38(B19)					1RDY		
39	39(A20)					RTN		
40	P011-40(B20)	1	P001-40	3	2	1LDP	WHITE	TWISTED PAIR

T=TIN WIRE  
S6=STRIP WIRE .375

DWG NO. 211757  
REV. 02  
SHEET 4

### ENGINEERING WIRE LIST

WIRE/COMP NO.	FROM		TO		WIRE ITEM NO.	SIGNAL	COLOR	REMARKS
	REF. DES.	TERM ITEM/TYPE	REF. DES.	TERM ITEM/TYPE				
41	P011-41(A21)	1	P001-41	3	2	RTN	WHITE	TWISTED PAIR
42	42(B21)					1FFT		
43	43(A22)					RTN		
44								
45	45(A23)					RTN		
46	46(B23)					RTN		
47	49(A24)					ε12	+5V	△
48	50(B24)					ε12	+5V	△
49	49(A25)					ε12	+5V	△
50	P011-50(B25)							
51	P012-1(A1)		P002-1			RTN		
52	2(B1)		2			1RTH1		
53	3(A2)		3			RTN		
54	4(B2)		4			1DDS		
55	5(A3)		5			RTN		
56	6(B3)		6			10VW		
57	7(A4)		7			RTN		
58	8(B4)		8			1RTH2		
59	9(A5)		9			RTN		TWISTED PAIR
60	P012-10(B5)	1	P002-10	3	2	1SWS	WHITE	TWISTED PAIR

T=TIN WIRE  
S6=STRIP WIRE .375

SEE DETAIL C SHEET 1

DWG NO. 211757  
REV. 02  
SHEET 5

### ENGINEERING WIRE LIST

WIRE/COMP NO.	FROM		TO		WIRE ITEM NO.	SIGNAL	COLOR	REMARKS
	REF. DES.	TERM ITEM/TYPE	REF. DES.	TERM ITEM/TYPE				
61	P012-11(A6)	1	P002-11	3	2	RNT	WHITE	TWISTED PAIR
62	12(B6)					1SRC		
63	13(A7)					RTN		
64	14(B7)					1LOAD		
65	15(A8)					RTN		
66	16(B8)					1OFFC		
67	17(A9)					RTN		
68	18(B9)					1WARS		
69	19(A10)					RTN		
70	20(B10)					1SFC		
71	21(A11)					RTN		
72	22(B11)					1RWC		
73	23(A12)					RTN		
74	24(B12)					1WDS		
75	25(A13)					RTN		
76	26(B13)					1SLT1		
77	27(A14)					RTN		
78	28(B14)					1SLT0		
79	29(A15)					RTN		
80	P012-30(B15)	1	P002-30	3	2	1WDP	WHITE	TWISTED PAIR

T=TIN WIRE  
S6=STRIP WIRE .375

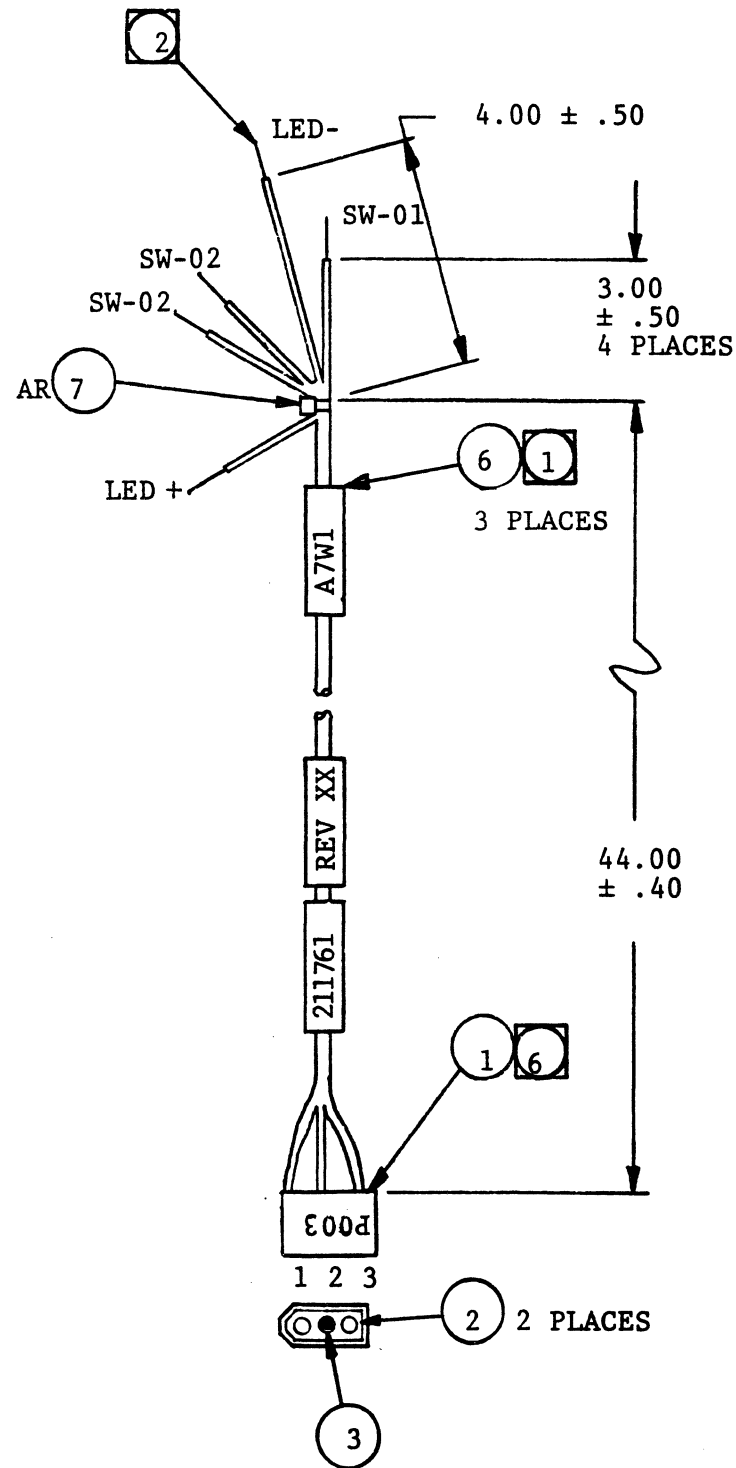
DWG NO. 211757  
REV. 02  
SHEET 6

### ENGINEERING WIRE LIST

WIRE/COMP NO.	FROM		TO		WIRE ITEM NO.	SIGNAL	COLOR	REMARKS
	REF. DES.	TERM ITEM/TYPE	REF. DES.	TERM ITEM/TYPE				
81	P012-31(A16)	1	P002-31	3	2	RTN	WHITE	TWISTED PAIR
82	32(B16)					1WD0		
83	33(A17)					RTN		
84	34(B17)					1WD1		
85	35(A18)					RTN		
86	36(B18)					1WD2		
87	37(A19)					RTN		
88	38(B19)					1WD3		
89	39(A20)					RTN		
90	40(B20)					1WD4		
91	41(A21)					RTN		
92	42(B21)					1WD5		
93	43(A22)					RTN		
94	44(B22)					1WD6		
95	45(A23)					RTN		
96	46(B23)					1WD7		
97	47(A24)					RTN		
98	48(B24)					1ONL		
99	49(A25)					RTN		
100	P012-50(B25)	1	P002-50	3	2	1DDI	WHITE	TWISTED PAIR

T=TIN WIRE  
S6=STRIP WIRE .375

DWG NO. 211757  
REV. 02  
SHEET 7



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APPLICATION	
NEXT ASSY	MODEL
211671	NTP

REVISIONS				
REV	DESCRIPTION	DRFTG	APPVD	DATE
01	RELEASE PER DRO 054-80		SE	1/30/80
02	INCRP DCO 10393	BM/LM	R EB	4/1/80
03	CODE 10 RELEASE W/O CHANGE PER DCO 10499	JT	EB	4/9/80

- 6 PERMANENTLY MARK CONNECTOR REF DESIGNATION USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR.
  - 5. PURCHASED CABLES MUST BE CSA CERTIFIED FOR USE IN ELECTRONIC DATA PROCESSING EQUIPMENT.
  - 4. CABLE TO BE PURCHASED FROM A U.L. LISTED MANUFACTURER OR MANUFACTURED UNDER PCC CONTROL.
  - 3. CABLE SHALL MEET THE PROVISIONS OF PERTEC SPECIFICATION 100277.
  - 2 IDENTIFY ALL LOOSE WIRE ENDS WITH APPROPRIATE TERMINATION DESIGNATIONS.
  - 1 PERMANENTLY MARK ASSEMBLY NUMBER, "REV" AND APPROPRIATE REVISION LEVEL, AND CABLE REF DESIGNATION USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPECIFICATION 100034.
- NOTE: UNLESS OTHERWISE SPECIFIED.

DRAWN	F CLARK/kw	12-14-79
CHECK	TL ROBUENOE	1-14-80
APPR	Frank M. G. /	22 Jun 80
RELEASE	G. B. /	1/30/80

**PCC PERTEC COMPUTER CORPORATION**  
DATA SYSTEMS OPERATIONS DIVISION

- UNLESS OTHERWISE SPECIFIED
- 1 TOLERANCES
    - .xx ±.03 ANGULAR
    - .xxx ±.010 ±0°30'
  - 2 REMOVE ALL BURRS
  - 3 BREAK ALL SHARP EDGES .010 APPROX
  - 4 MACH SURFACES 125 ✓ OR BETTER
  - 5 INTERPRET DWG PER ANS Y14
  - 6 DIM ARE IN INCHES

TITLE			
CABLE SYSTEM CONTROL (A7W1)			
CODE IDENT. NO.	SIZE	DWG NO.	REV.
DC CODE 10	A	211761	03
SCALE	DO NOT SCALE DWG	SHEET 1	OF 4



MATERIAL LIST

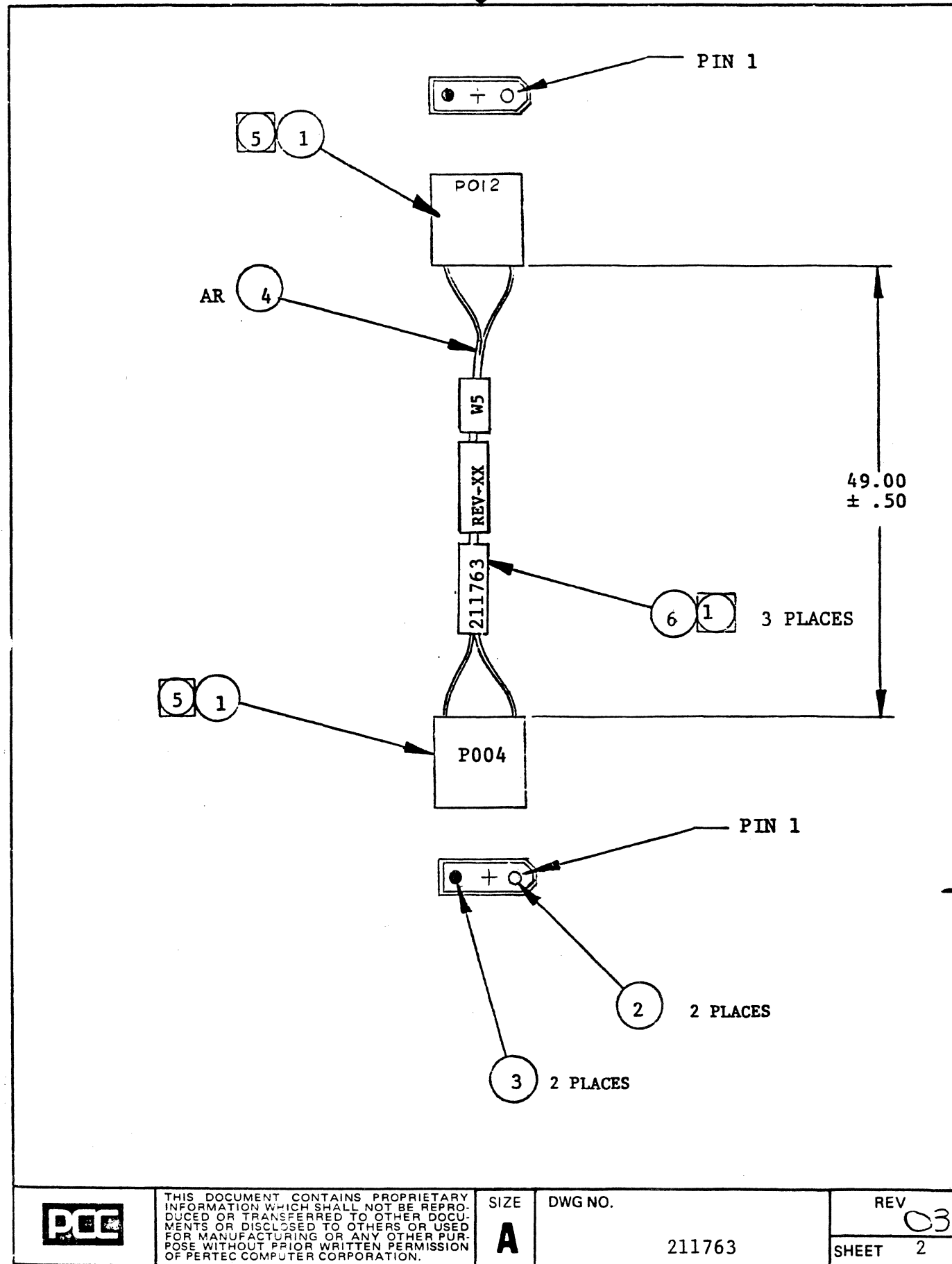
Item No.	Quantity Required					Part No.	Nomenclature or Description	Reference Designation
					-000			
1					1	320002-032	CONNECTOR	P003
2					2	320001-118	CONTACTS FEMALE	
3					1	320001-218	CONTACTS MALE	
4					AR	510144-007	WIRE, STRANDED INSULATED (80° C 150V)	
5								
6					3	420019-000	TIE, IDENTIFICATION	
7					AR	370016-XXX	TIE, WRAP	

790406-03

ENGINEERING WIRE LIST

WIRE/COMP NO.	FROM		TO		WIRE ITEM NO.	SIGNAL	COLOR	REMARKS	
	REF. DES.	TERM ITEM/TYPE	REF. DES.	TERM ITEM/TYPE					
1	P003-01	2	SW-01	S6T	4		WHITE		
2	P003-02	3	SW-02	S6T	4		WHITE		
3	P003-03	2	LED -	S6T	4		WHITE		
4	SW-02	S6T	LED +	S6T	4		WHITE		
T=TIN WIRE S6=STRIP WIRE .375							DWG NO	211761	REV 03
							SHEET	4	

790242-02



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REVISIONS				
REV	DESCRIPTION	DRFTG	APPVD	DATE
01	RELEASE PER DRO 054-80		EB	1/30/80
02	INCORP DCO 10392	BM/LM	EB	7/7/80
03	CODE 10 RELEASE W/O CHANGE PER DCO 10485		EB	4/7/80

APPLICATION	
NEXT ASSY	MODEL
211672	NTP

- 5 PERMANENTLY MARK CONNECTOR REF DESIGNATION USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR.
- 4. PURCHASED CABLES MUST BE CSA CERTIFIED FOR USE IN ELECTRONIC DATA PROCESSING EQUIPMENT.
- 3. CABLE TO BE PURCHASED FROM A U.L. LISTED MANUFACTURER OR MANUFACTURED UNDER PCC CONTROL.
- 2. CABLE SHALL MEET THE PROVISIONS OF PERTEC SPECIFICATION 100277.
- 1 PERMANENTLY MARK ASSEMBLY NUMBER, "REV" AND APPROPRIATE REVISION LEVEL AND CABLE REF DESIGNATION USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPEC 100034.

NOTE: UNLESS OTHERWISE SPECIFIED.

DRAWN	F CLARK/kw12-18-79	<b>PERTEC COMPUTER CORPORATION</b> DATA SYSTEMS OPERATIONS DIVISION	TITLE		
CHECK	TL FOSHEMCKE 1-14-80		CABLE, AC CONTROL (W5)		
APPR	Fm 1/20/80		CODE IDENT. NO.	SIZE	DWG NO.
RELEASE	G. B. 1/30/80		D C CODE	A	211763
UNLESS OTHERWISE SPECIFIED		SCALE	DO NOT SCALE DWG	REV.	
1 TOLERANCES .xx ±.03 ANGULAR .xxx ±.010 ±0°30' 2 REMOVE ALL BURRS 3 BREAK ALL SHARP EDGES .010 APPROX 4 MACH SURFACES 125 ✓ OR BETTER 5 INTERPRET DWG PER ANS Y14 6 DIM ARE IN INCHES		SHEET	1	OF	
THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR TRANSFERRED TO OTHER DOCUMENTS OR DISCLOSED TO OTHERS OR USED FOR MANUFACTURING OR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN PERMISSION OF PERTEC COMPUTER CORPORATION.		SHEET		4	

MATERIAL LIST

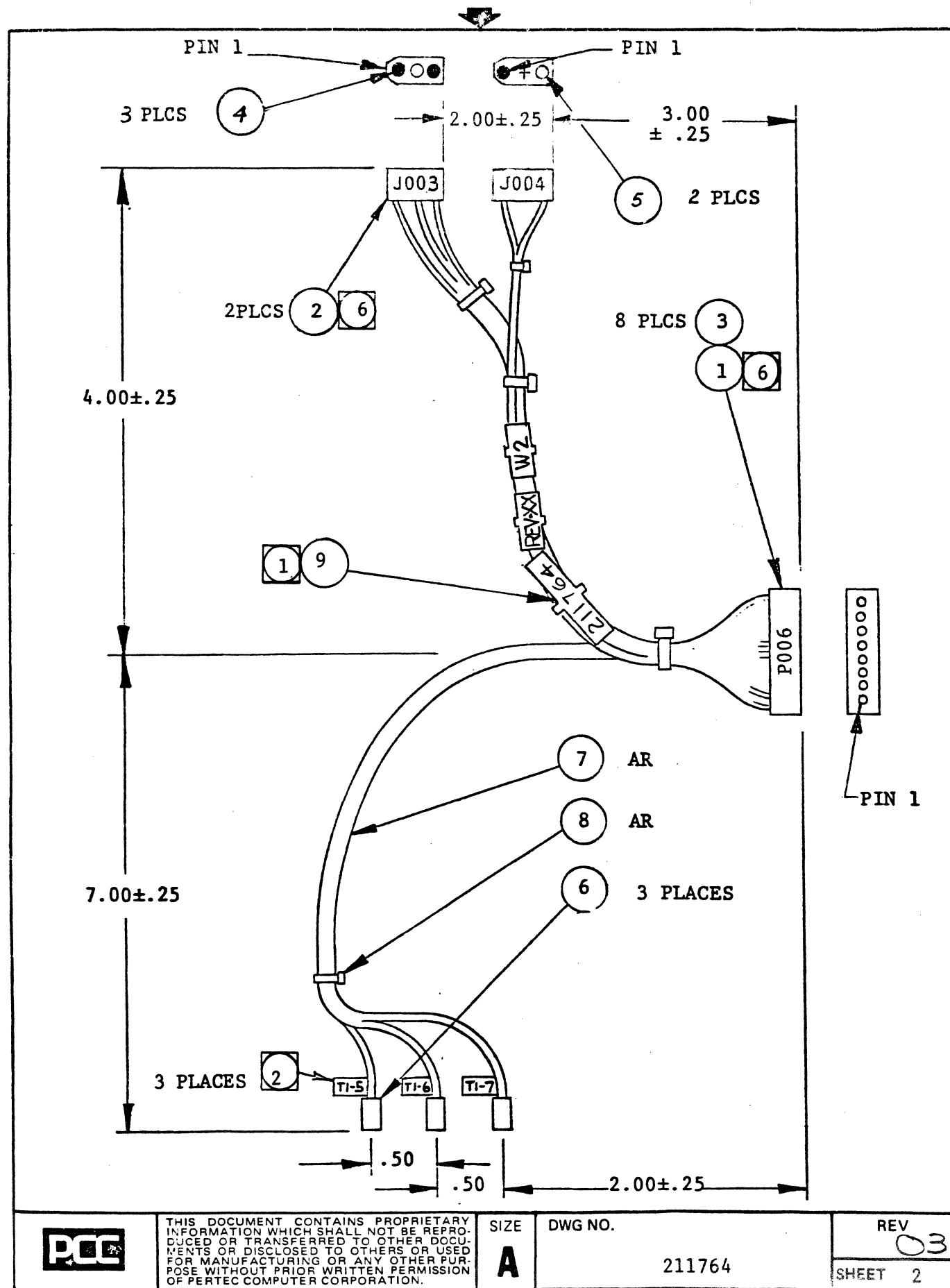
Item No.	Quantity Required					Part No.	Nomenclature or Description	Reference Designation
					-000			
1						2 320002-032	CONNECTOR	P004, P012
2						2 320001-118	CONTACTS FEMALE	
3						2 320001-218	CONTACTS MALE	
4						AR 510144-016	WIRE, STRANDED INSULATED (80 ° C 150V)	
5								
6						3 420019-000	TIE, IDENTIFICATION	
7						AR 370016-XXX	TIE, WRAP	

790406-03

ENGINEERING WIRE LIST

WIRE/ COMP NO.	FROM		TO		WIRE ITEM NO.	SIGNAL	COLOR	REMARKS		
	REF. DES.	TERM ITEM/TYPE	REF. DES.	TERM ITEM/TYPE						
1	P012-01	2	P004-01	2	4		WHITE			
2	P012-03	3	P004-03	3	4		WHITE			
T = TIN WIRE S6 = STRIP WIRE .375							DWG NO	211763	REV	03
							SHEET	4		

790242-02



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APPLICATION	
NEXT ASSY	MODEL
211675	NTP

REVISIONS				
REV	DESCRIPTION	DRFTG	APPVD	DATE
01	RELEASE PER DRO 054-80		J.S.	1/30/80
02	INCRP DCO 10390	BM/LM	R.E.B.	4/9/80
03	CODE 10 RELEASE W/O CHANGE PER DCO 10499	Q.M.	E.B.	4/9/80

- 6 PERMANENTLY MARK CONNECTOR REF DESIGNATION USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR.
- 5. PURCHASED HARNESES MUST BE CSA CERTIFIED FOR USE IN ELECTRONIC DATA PROCESSING EQUIPMENT.
- 4. HARNESS TO BE PURCHASED FROM A U.L. LISTED MANUFACTURER OR MANUFACTURED UNDER PCC CONTROL.
- 3. HARNESS SHALL MEET THE PROVISIONS OF PERTEC SPECIFICATION 100277.
- 2 IDENTIFY ALL LOOSE WIRE ENDS WITH APPROPRIATE TERMINATION DESIGNATION.
- 1 PERMANENTLY MARK ASSEMBLY NUMBER, "REV" AND APPROPRIATE REVISION LEVEL AND CABLE REF DESIGNATION USING, .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPECIFICATION 100034.

NOTE: UNLESS OTHERWISE SPECIFIED.

DRAWN	F CLARK/kw	12-18-79
CHECK	T. F. JOHNSON	1-14-80
APPR	F. M. ...	22 Jan 80
RELEASE	G. B. ...	1/30/80

**PCC PERTEC COMPUTER CORPORATION**  
DATA SYSTEMS OPERATIONS DIVISION

TITLE  
**HARNESS, AUX P/S, DC (W2)**

- UNLESS OTHERWISE SPECIFIED
- TOLERANCES  
.xx ±.03 ANGULAR  
.xxx ±.010 ±0°30'
  - REMOVE ALL BURRS
  - BREAK ALL SHARP EDGES  
.010 APPROX
  - MACH SURFACES 125 ✓ OR BETTER
  - INTERPRET DWG PER ANS Y14
  - DIM ARE IN INCHES

CODE IDENT. NO.	SIZE	DWG NO.	REV.
D/C CODE	<b>A</b>	211764	<b>03</b>
SCALE	DO NOT SCALE DWG	SHEET 1	OF 4



PERTEC  
COMPUTER  
CORPORATION

MATERIAL LIST

Sheet 3 of

ML  
Dwg. No.

211764

Rev.

03

Item No.	Quantity Required					Part No.	Nomenclature or Description	Reference Designation
					-000			
1						1 320271-010	CONNECTOR, RECEPTACLE (.045 PIN)	P006
2						2 320002-034	CONNECTOR, .062 SERIES	J003, J004
3						8 320270-000	CONTACT, CRIMP, FOR .045 PIN RCPT	
4						3 320001-218	CONTACT, CONNECTOR (M)	
5						2 320001-118	CONTACT, CONNECTOR (F)	
6						3 320291-000	TERMINAL, PUSH-ON, INSULATED	
7						AR 510140-013	WIRE, STRANDED, INSULATED (105° C 300V)	
8						AR 370016-XXX	TIE WRAP	
9						3 420019-000	TIE, IDENTIFICATION	

790406-03



PERTEC  
COMPUTER  
CORPORATION

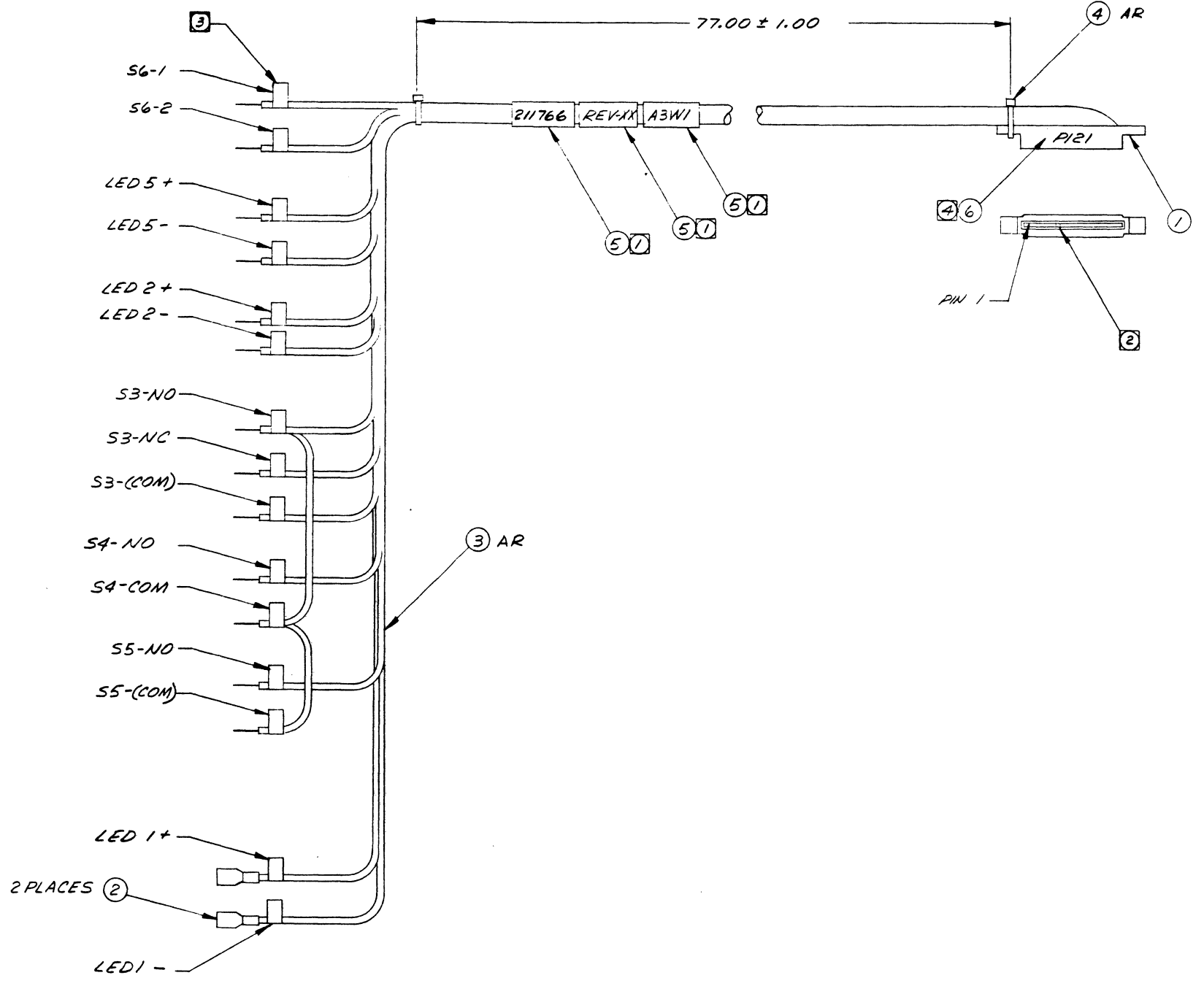
ENGINEERING WIRE LIST

WIRE/ COMP NO.	FROM		TO		WIRE ITEM NO.	SIGNAL	COLOR	REMARKS	
	REF. DES.	TERM ITEM/TYPE	REF. DES.	TERM ITEM/TYPE					
1	P006-01	3	J003-01	4	7		WHITE		
2	↑ 02	↑	J003-02	5	↑		↑		
3	↓ 03	↓	J003-03	4	↓		↓		
4	↓ 04	↓	T1-05	6	↓		↓		
5	↓ 05	↓	T1-07	6	↓		↓		
6	↓ 06	↓	T1-06	6	↓		↓		
7	↓ 07	↓	J004-01	4	↓		↓		
8	P006-08	3	J004-03	5	7		WHITE		
T=TIN WIRE S6=STRIP WIRE .375							DWG NO	211764	REV 03
							SHEET	4	

790242-02

8 7 6 5 4 3 2 1

REVISIONS				
SYM	DESCRIPTION	DRAFT	APPROVED	DATE
01	RELEASE PER DRO		E.E.	12/15/79
02	CODE 10 REL W/O CHANGE PER DOD 10499	JAM	SM/B	1/6/80



**NOTE: UNLESS OTHERWISE SPECIFIED**

- 1 PERMANENTLY MARK ASSY NUMBER "REV" AND APPROPRIATE REVISION LEVEL, AND CABLE REF DESIGNATION USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPEC 10034.
- 2 INSTALL KEY PROVIDED WITH CONNECTOR BETWEEN PINS 5 & 6.
- 3 IDENTIFY ALL LOOSE WIRE ENDS WITH APPROPRIATE TERMINATION DESIGNATION.
- 4 PERMANENTLY MARK CONNECTOR REF DESIGNATIONS SHOWN USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR.
- 5 PURCHASED HARNESS MUST BE CSA CERTIFIED FOR USE IN ELECTRONIC DATA PROCESSING EQUIPMENT.
- 6 HARNESS TO BE PURCHASED FROM A U.L. LISTED MANUFACTURER OR MANUFACTURED UNDER PCL CONTROL.
- 7 HARNESS SHALL MEET THE PROVISION OF PERTEC SPEC 100277.

ITEM NO.	QTY	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION
MATERIAL LIST			
UNLESS OTHERWISE SPECIFIED		DRAWN	F. CLARK 12/15/79
1 TOLERANCES		CHECK	T. ROQUEMONT 1-11-80
** .030 ANGULAR		APPR	
*** .010 0°-30°		RELEASE	
2 REMOVE ALL BURRS			
3 BREAK ALL SHARP EDGES			
010 APPROX			
4 MACH SURFACES 125/GR			
BETTER			
5 INTERPRET DWG PER MIL D-1000			
6 DIM ARE IN INCHES			
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MATERIAL		CODE IDENT NO	SIZE DWG NO
FINISH		D/C CODE	REV
APPLICATION		SCALE	DO NOT SCALE DWG SHEET 1 OF 3

211631	1	NTP	-
NEXT ASSY	QTY	MODEL	QTY

**BUSINESS SYSTEMS**

TITLE  
HARNESS, SYS CONT (A3WI)

CODE IDENT NO: D  
SIZE: 211766  
DWG NO: 02  
REV: 02

Item No.	Quantity Required					Part No.	Nomenclature or Description	Reference Designation
					-000			
1					1	320267-000	CONNECTOR, EDGE-ON	P121
2					2	320039-224	TERMINAL, PUSH-ON	
3					AR	510144-007	WIRE, STRANDED INSULATED (80° C 150V)	
4					AR	370016-XXX	TIE, WRAP	
5					3	420019-000	TIE, IDENTIFICATION	

790406-03

ENGINEERING WIRE LIST

WIRE/COMP NO.	FROM		TO		WIRE ITEM NO.	SIGNAL	COLOR	REMARKS
	REF. DES.	TERM ITEM/TYPE	REF. DES.	TERM ITEM/TYPE				
1	P121-B15	1	S6-(1)	S6T	7	@PSWI	WHITE	
2	↑ B14	1	S6-(2)	S6T	↑	@PSWO	↑	
3	↑ A04	1	LED5 +	S6T	↑	+ PID5	↑	
4	↑ B13	1	LED5-	S6T	↑	1IND5	↑	
5	↓ A05	1	LED1 +	2	↓	+ PID1	↓	
6	↓ A12	1	LED1-	2	↓	1IND1	↓	
7	P121-B05	1	S3-NO	S6T		1SW3		
8	S3-NO	S6T	S4-(COM)	S6T		1SW3		
9	S4-(COM)	S6T	S5-(COM)	S6T		1SW3		
10	P121-A07	1	S3-NC	S6T		1IPLR		
11	↑ B01	1	S3-(COM)	S6T		LGND		
12	↑ A10	1	S4-NO	S6T		1IPL1		
13	↑ B10	1	S5-NO	S6T		1IPL2		
14	↓ A01	1	LED2 +	S6T	↓	+ P1D2	↓	
15	P121-A08	1	LED2-	S6T	7	1IND2	WHITE	
T=TIN WIRE S6=STRIP WIRE .375							DWG NO 211766	REV 02
							SHEET 3	

790242-02

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REVISIONS


REV	DESCRIPTION	DRFTG	APPVD	DATE
01	RELEASE PER DRO 202-80		EB	4/9/80

APPLICATION

NEXT ASSY	MODEL
211635	NTP

- 8 WIRES 1 & 2 TO REMAIN PHYSICALLY ISOLATED FROM ALL OTHER WIRES BY 3/4 INCH.
- 7 PERMANENTLY MARK CONNECTOR REF DESIGNATIONS USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPEC 100034.
- 6. PURCHASED HARNESES MUST BE CSA CERTIFIED FOR USE IN ELECTRONIC DATA PROCESSING EQUIPMENT.
- 5. HARNESS TO BE PURCHASED FROM A U.L. LISTED MANUFACTURER OR MANUFACTURED UNDER PCC CONTROL.
- 4. HARNESS SHALL MEET THE PROVISIONS OF PERTEC SPECIFICATION 100277.
- 3 IDENTIFY ALL LOOSE WIRE ENDS WITH APPROPRIATE TERMINATION DESIGNATIONS.
- 2. MANUFACTURE HARNESS USING HARNESS BOARD 940056.
- 1 PERMANENTLY MARK ASSEMBLY NUMBER, "REV" AND APPROPRIATE REVISION LEVEL AND CABLE REFERENCE DESIGNATION USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPECIFICATION 100034.

NOTE: UNLESS OTHERWISE SPECIFIED.

DRAWN	<sup>KW</sup> F CLARK / 2-20-80	 <b>PERTEC COMPUTER CORPORATION</b> <small>DATA SYSTEMS OPERATIONS DIVISION</small>	TITLE		
CHECK	TL RODRIGUEZ 3-28-80		<p align="center">HARNESS, A/C DISTRIBUTION (A4-W2)</p>		
APPR	Frank McInch 27 Mar 80				
RELEASE	S. Brink 4/9/80		CODE IDENT. NO.	SIZE	DWG NO.
UNLESS OTHERWISE SPECIFIED 1 TOLERANCES .xx ±.03 ANGULAR .xxx ±.010 ±0°30' 2 REMOVE ALL BURRS 3 BREAK ALL SHARP EDGES .010 APPROX 4 MACH SURFACES 125 ✓ OR BETTER 5 INTERPRET DWG PER ANS Y14 6 DIM ARE IN INCHES		DC CODE	A	211820	01
		SCALE	DO NOT SCALE DWG	SHEET 1 OF 3	



MATERIAL LIST

Item No.	Quantity Required					Part No.	Nomenclature or Description	Reference Designation
					-000			
1					3	320005-810	TERMINAL, RING TONGUE	
2					6	320005-710	TERMINAL, RING TONGUE	
3					4	320095-214	CONTACT, CRIMP (M)	
4					12	320095-114	CONTACT, CRIMP (F)	
5					1	320001-218	CONTACT, CRIMP, .062 SERIES (M)	
6					1	320001-118	CONTACT, CRIMP, .062 SERIES (F)	
7					2	320005-714	TERMINAL, RING TONGUE	
8					2	320005-614	TERMINAL, RING TONGUE	
9								
10					AR	510140-019	WIRE, STRANDED, INSULATED (105 ° C 300V)	
11								
12					AR	370016-XXX	TIE, WRAP	
13					3	420019-000	TIE, IDENTIFICATION	1
14					1	320002-034	CONN, NYLON .062 SERIES	J012
15					4	320269-000	CONN, RECEPTACLE, NYLON INT'L	J010A, J010B, J010C, J010D
16					AR	510140-013	WIRE, STRANDED, INSULATED (105 ° C, 300V)	
17					1	320269-006	CONNECTOR, RECEPTACLE, NYLON INT'L	J011
18					AR	510156-001	CORD, POWER, SHIELDED	

790406-03

ENGINEERING WIRE LIST

WIRE/ COMP NO.	FROM		TO		WIRE ITEM NO.	SIGNAL	COLOR	REMARKS
	REF. DES.	TERM ITEM/TYPE	REF. DES.	TERM ITEM/TYPE				
1	K1-3	8	J012-3	6	16	CNT+	WHITE	8
2	K1-4	8	J012-1	5	16	CNT-	WHITE	
3	E1	2	J011-1	4	18	ACGPS	GRN/YEL	
4	E1		J011-4	4	18	SHLD	TIN	
5	LF1-3	2	K1-1	1	16	ACH4	WHITE	
6	LF1-4	2	J010C-3	3	10	ACLMT1	↑	
7	LF1-4		J010D-3	3	10	ACLMT2		
8	LF1-4	2	J010A-3	3	10	ACLRD1		
9	LF1-4		J010B-3	3	10	ACLRD2		
10	K1-2	1	J010C-1	4	10	ACHMT1		
11	K1-2		J010D-1	4	10	ACHMT2		
12	K1-2	1	J010A-1	4	10	ACHRD1		
13	K1-2		J010B-1	4	10	ACHRD2		
14	E3	2	J010C-2	4	10	GDMT1		
15	E3		J010D-2	4	10	GDMT2		
16	E3	2	J010A-2	4	10	GDRD1		
17	E3		J010B-2	4	10	GDRD2	WHITE	
18	LF1-2	7	J011-2	4	18	ACHPS	BRN	
19	LF1-1	7	J011-3	4	18	ACLPS	BLUE	

T=TIN WIRE  
S6=STRIP WIRE .375

790242-02



MATERIAL LIST

Sheet 2 of 2

ML Dwg. No.

211820

Rev.

Item No.	Quantity Required	Part No.	Nomenclature or Description	Reference Designation
1	-000			
2	2	320005-810	TERMINAL, RING TONGUE	
3	5	320005-710	TERMINAL, RING TONGUE	
4	4	320095-214	CONTACT, CRIMP (M)	
5	12	320095-114	CONTACT, CRIMP (F)	
6	1	320001-218	CONTACT, CRIMP, .062 SERIES (M)	
7	1	320001-118	CONTACT, CRIMP, .062 SERIES (F)	
8	2	320005-714	TERMINAL, RING TONGUE	
9	2	320005-614	TERMINAL, RING TONGUE	
10	1	320005-710	TERMINAL, RING TONGUE	
11	AR	510140-019	WIRE, STRANDED, INSULATED (105° C 300V)	
12	1	320005-810	TERMINAL, RING TONGUE	
13	AR	370016-XXX	TIE, WRAP	
14	3	420019-000	TIE, IDENTIFICATION	
15	1	320002-034	CONN, NYLON .062 SERIES	J012
16	4	320269-000	CONN, RECEPTACLE, NYLON INT'L	J010A, J010B, J010C, J010D
17	AR	510140-013	WIRE, STRANDED, INSULATED (105° C, 300V)	
18	1	320269-006	CONNECTOR, RECEPTACLE, NYLON INT'L	J011
	AR	510156-001	CORD, POWER, SHIELDED	

1

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REVISION

REV:	DESCRIPTION	DRFTG	APPVD	DATE
01	RELEASE PER DRO 202-80			28 4/9/80
02	INCORP DCO 11048	CMM	MP SB	2/22/80
03	INCORP DCO 11637	MM/LM	21.28	4/28/80

NEXT ASSY	MODEL
211635	NTP

- 8 WIRES 1 & 2 TO REMAIN PHYSICALLY ISOLATED FROM ALL OTHER WIRES BY 3/4 INCH.
- 7 PERMANENTLY MARK CONNECTOR REF DESIGNATIONS USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPEC 100034.
- 6. PURCHASED HARNESSSES MUST BE CSA CERTIFIED FOR USE IN ELECTRONIC DATA PROCESSING EQUIPMENT.
- 5. HARNESS TO BE PURCHASED FROM A U.L. LISTED MANUFACTURER OR MANUFACTURED UNDER PCC CONTROL.
- 4. HARNESS SHALL MEET THE PROVISIONS OF PERTEC SPECIFICATION 100277.
- 3 IDENTIFY ALL LOOSE WIRE ENDS WITH APPROPRIATE TERMINATION DESIGNATIONS.
- 2. MANUFACTURE HARNESS USING HARNESS BOARD 940056.
- 1 PERMANENTLY MARK ASSEMBLY NUMBER, "REV" AND APPROPRIATE REVISION LEVEL AND CABLE REFERENCE DESIGNATION USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPECIFICATION 100034.

NOTE: UNLESS OTHERWISE SPECIFIED.

DISTRIBUTION CLASS C

DRAWN	F CLARK/	2-20-80
CHECK	TZ RODRIGUEZ	3-28-80
APPR	Frank Melnick	27 Mar 80
RELEASE	G. B. ...	4/9/80

**PERTEC COMPUTER CORPORATION**  
DATA SYSTEMS OPERATIONS DIVISION

TITLE  
**HARNESS, A/C DISTRIBUTION (A4-W2)**

CODE IDENT. NO.	SIZE	DWG NO.	REV.
D C CODE	<b>A</b>	211820	<b>03</b>
SCALE	DO NOT SCALE DWG	SHEET 1 OF 4	

- UNLESS OTHERWISE SPECIFIED
- 1 TOLERANCES  
.xx ±.03 ANGULAR  
.xxx ±.010 ±0°30'
  - 2 REMOVE ALL BURRS
  - 3 BREAK ALL SHARP EDGES .010 APPROX
  - 4 MACH SURFACES 125 ✓ OR BETTER
  - 5 INTERPRET DWG PER ANS Y14
  - 6 DIM ARE IN INCHES

790406 03



MATERIAL LIST

Sheet 3 of

ML Dwg. No.

211820

Rev.

03

Item No.	Quantity Required					Part No.	Nomenclature or Description	Reference Designation
					-000			
19						AR 510146-011	WIRE, INSULATED (105°C, 600V)	

790406-04



PERTEC  
COMPUTER  
CORPORATION

ENGINEERING WIRE LIST

WIRE/ COMP NO.	FROM		TO		WIRE ITEM NO.	SIGNAL	COLOR	REMARKS	
	REF. DES.	TERM ITEM/TYPE	REF. DES.	TERM ITEM/TYPE					
1	K1-3	8	J012-3	6	16	CNT+	WHITE	8	
2	K1-4	8	J012-1	5	16	CNT-	WHITE		
3	E1	2	J011-1	4	18	ACGPS	GRN/YEL		
4	E1		J011-4	4	18	SHLD	TIN		
5	LF1-3	9	K1-1	11	16	ACH4	WHITE		
6	LF1-4	2	J010C-3	3	10	ACLMT1	↑ WHITE ↓		
7	LF1-4		J010D-3	3	10	ACLMT2			
8	LF1-4	2	J010A-3	3	10	ACLRD1			
9	LF1-4		J010B-3	3	10	ACLRD2			
10	K1-2	1	J010C-1	4	10	ACHMT1			
11	K1-2		J010D-1	4	10	ACHMT2			
12	K1-2	1	J010A-1	4	10	ACHRD1			
13	K1-2		J010B-1	4	10	ACHRD2			
14	E3	2	J010C-2	4	10	GDMT1			
15	E3		J010D-2	4	10	GDMT2			
16	E3	2	J010A-2	4	10	GDRD1			
17	E3		J010B-2	4	10	GDRD2		WHITE	
18	LF1-2	7	J011-2	4	18	ACHPS		BRN	
19	LF1-1	7	J011-3	4	18	ACLPS		BLUE	

T=TIN WIRE  
S6=STRIP WIRE .375

DWG NO

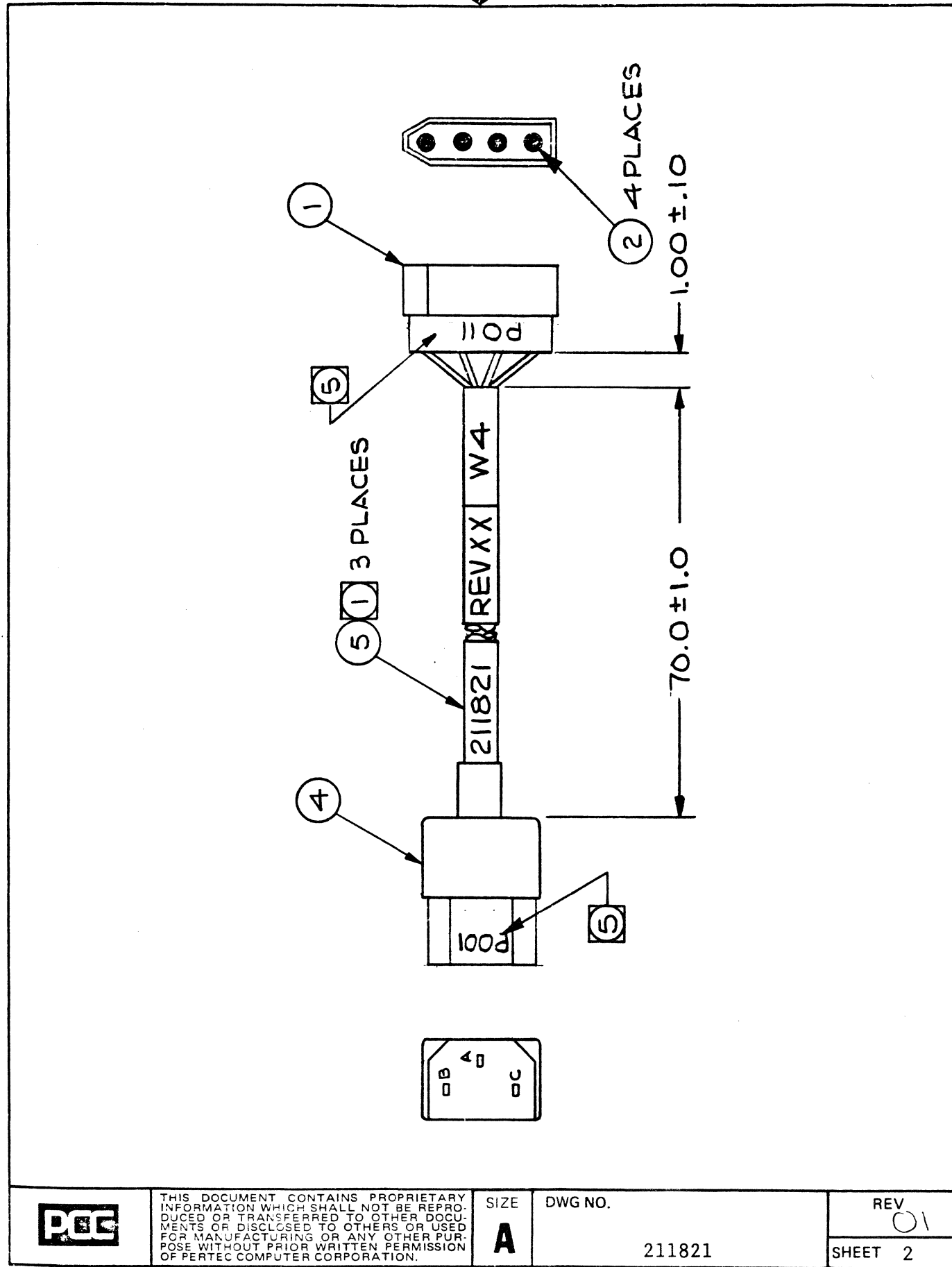
211820

REV

03

SHEET

4



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REVISIONS				
REV	DESCRIPTION	DRFTG	APPVD	DATE
01	RELEASE PER DRO 202-80		EB	4/9/80

APPLICATION	
NEXT ASSY	MODEL
211646	NTP

- 5 PERMANENTLY MARK CONNECTOR REF DESIGNATION USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPEC 100034.
4. PURCHASED CABLES MUST BE CSA CERTIFIED FOR USE IN ELECTRONIC DATA PROCESSING EQUIPMENT.
3. CABLE TO BE PURCHASED FROM A U.L. LISTED MANUFACTURER OR MANUFACTURED UNDER PCC CONTROL.
2. CABLE SHALL MEET THE PROVISIONS OF PERTEC SPECIFICATION 100277.
- 1 PERMANENTLY MARK ASSEMBLY NUMBER, "REV" AND APPROPRIATE REV LEVEL AND CABLE REF DESIGNATION USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPEC 100034.

NOTE: UNLESS OTHERWISE SPECIFIED.

DRAWN	F CLARK / kw	2-20-80
CHECK	TL ROSENSEE	2-27-80
APPR	Frank Melnick	27 Mar 80
RELEASE	G. B. ...	4/9/80

**PCC PERTEC COMPUTER CORPORATION**  
DATA SYSTEMS OPERATIONS DIVISION

TITLE  
CABLE, AC CONTROL TO  
POWER SUPPLY (W4)

- UNLESS OTHERWISE SPECIFIED
- 1 TOLERANCES  
.xx ±.03 ANGULAR  
.xxx ±.010 ±0°30'
  - 2 REMOVE ALL BURRS
  - 3 BREAK ALL SHARP EDGES .010 APPROX
  - 4 MACH SURFACES 125 ✓ OR BETTER
  - 5 INTERPRET DWG PER ANS Y14
  - 6 DIM ARE IN INCHES

CODE IDENT. NO.	SIZE	DWG NO.	REV.
D/C CODE 10	A	211821	01
SCALE	DO NOT SCALE DWG	SHEET 1 OF 4	

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SIZE	DWG NO.	REV
A	211821	01
		SHEET 2



PERTEC  
COMPUTER  
CORPORATION

MATERIAL LIST

Sheet 3 of

ML  
Dwg. No.

211821

Rev.  
01

Item No.	Quantity Required					Part No.	Nomenclature or Description	Reference Designation
1					1	320274-004	CONNECTOR	
2					4	320095-214	PIN, MALE	
3								
4					AR	510155-001	CORD, LINE, SHIELDED	
5					3	420019-000	TIE, IDENTIFICATION	

790406-03



PERTEC  
COMPUTER  
CORPORATION

ENGINEERING WIRE LIST

WIRE/ COMP NO.	FROM		TO		WIRE ITEM NO.	SIGNAL	COLOR	REMARKS
	REF. DES.	TERM ITEM/TYPE	REF. DES.	TERM ITEM/TYPE				
1	P001-A		P011-01	2	4	GND	GRN/YEL	
2	P001-B		P011-02	2		NEUTRAL	BLUE	
3	P001-C		P011-03	2		AC HIGH	BRN	
4	P001-A		P011-04	2		SHIELD	TIN	
T = TIN WIRE S6 = STRIP WIRE .375							DWG NO 211821	REV 01
							SHEET 4	

790442-02

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REVISIONS


REV	DESCRIPTION	DRFTG	APPVD	DATE
01	RELEASE PER DRO 202-80		EB	4/9/80 (P)

APPLICATION

NEXT ASSY	MODEL
211635	NTP

- 7. IDENTIFY ALL LOOSE WIRE ENDS WITH APPROPRIATE TERMINATION DESIGNATIONS.
- 6. CABLE SHALL MEET THE PROVISIONS OF PERTEC SPEC 100277.
- 5. MANUFACTURE HARNESS PER HARNESS BOARD 940057.
- 4. PURCHASED CABLES MUST BE CSA CERTIFIED FOR USE IN ELECTRONIC DATA PROCESSING EQUIPMENT.
- 3. REF SCHEMATIC 121188.
- 2. CABLE TO BE PURCHASED FROM A U.L. LISTED MANUFACTURER OR MANUFACTURED UNDER PCC CONTROL.
- 1. PERMANENTLY MARK ASSEMBLY NUMBER, "REV" AND APPROPRIATE REVISION LEVEL, AND REF DESIGNATION USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPECIFICATION 100034.

NOTE: UNLESS OTHERWISE SPECIFIED.

DRAWN	F CLARK/kw	2-12-80	 <b>PERTEC COMPUTER CORPORATION</b> <small>DATA SYSTEMS OPERATIONS DIVISION</small>
CHECK	TL RODRIGUEZ	2-27-80	
APPR	Frank McInch	27 Nov 80	
RELEASE	G. B. [Signature]	4/9/80	
UNLESS OTHERWISE SPECIFIED 1 TOLERANCES .xx ±.03 ANGULAR .xxx ±.010 +0°30' 2 REMOVE ALL BURRS 3 BREAK ALL SHARP EDGES .010 APPROX 4 MACH SURFACES 125 ✓ OR BETTER 5 INTERPRET DWG PER ANS Y14 6 DIM ARE IN INCHES			TITLE  <b>HARNESS A/C POWER</b> <b>(A4-W1)</b>
CODE IDENT. NO.	SIZE	DWG NO.	REV.
DC CODE 10	<b>A</b>	211822	01
SCALE	DO NOT SCALE DWG	SHEET 1 OF	3

MATERIAL LIST

Item No.	Quantity Required					Part No.	Nomenclature or Description	Reference Designation
					-000			
1						5 320005-710	TERMINAL, RING TONGUE #10	
2						4 320373-001	TERMINAL, QUICK DISCONNECT FEMALE	
3						AR 510146-012	WIRE, STRANDED, INSULATED (105 ° C 600V) 12GA	
4						AR 510146-011	WIRE, STRANDED, INSULATED (105 ° C 600V) 12GA	
5						AR 370016-XXX	TIE, WRAP	
6						3 420019-000	TIE, IDENTIFICATION	①
7						4 320374-001	HOUSING, QUICK DISCONNECT TERM	

790406-03

ENGINEERING WIRE LIST

WIRE/COMP NO.	FROM		TO		WIRE ITEM NO.	SIGNAL	COLOR	REMARKS	
	REF. DES.	TERM ITEM/TYPE	REF. DES.	TERM ITEM/TYPE					
1	J001-G	S6T	E1	1	3	GD1	GRN/YEL		
2	J001-Y	S6T	CB1-A1	2	4	ACH1	WHITE		
3	J001-X	S6T	CB1-A2	2	4	ACL1	WHITE		
4	CB1-B1	2	LF1-1	1	4	ACH2	WHITE		
5	CB1-B2	2	LF1-2	1	4	ACL2	WHITE		
6	E2	1	E4	1	3	GD2	GRN/YEL		
T = TIN WIRE S6 = STRIP WIRE .375								DWG NO 211822	REV 01
								SHEET 3	

790242-02

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REVISIONS


REV	DESCRIPTION	DRFTG	APPVD	DATE
01	RELEASE PER DRO 202-80		EB	4/9/80
02	INCorp DCO 10649	JN/LM	EB	4/23/80

APPLICATION

NEXT ASSY	MODEL
211675	NTP

- 7 PERMANENTLY MARK CONNECTOR REF DESIGNATIONS USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPEC 100034.
- 6. PURCHASED HARNESES MUST BE CSA CERTIFIED FOR USE IN ELECTRONIC DATA PROCESSING EQUIPMENT.
- 5. HARNESS TO BE PURCHASED FROM A U.L. LISTED MANUFACTURER OR MANUFACTURED UNDER PCC CONTROL.
- 4. HARNESS SHALL MEET THE PROVISIONS OF PERTEC SPECIFICATION 100277.
- 3 IDENTIFY ALL LOOSE WIRE ENDS WITH APPROPRIATE TERMINATION DESIGNATIONS.
- 2. MANUFACTURE HARNESS USING HARNESS BOARD 940055.
- 1 PERMANENTLY MARK ASSEMBLY NUMBER, "REV" AND APPROPRIATE REVISION LEVEL AND CABLE REFERENCE DESIGNATION USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPECIFICATION 100034.

NOTE: UNLESS OTHERWISE SPECIFIED.

DRAWN	<sup>KW</sup> F CLARK/	2-20-80	 <b>PERTEC COMPUTER CORPORATION</b> <small>DATA SYSTEMS OPERATIONS DIVISION</small>
CHECK	TL ROCKEMDZEE	2-27-80	
APPR	F. Clark	27 Mar 80	
RELEASE	S. F. ...	4/9/80	
UNLESS OTHERWISE SPECIFIED 1 TOLERANCES .xx ±.03 ANGULAR .xxx ±.010 ±0°30' 2 REMOVE ALL BURRS 3 BREAK ALL SHARP EDGES .010 APPROX 4 MACH SURFACES 125 ✓ OR BETTER 5 INTERPRET DWG PER ANS Y14 6 DIM ARE IN INCHES			TITLE  HARNESS, AUX P/S AC (W1)
CODE IDENT. NO.	SIZE	DWG NO.	REV.
D/C CODE 10	A	211823	02
SCALE	DO NOT SCALE DWG	SHEET 1 OF	3



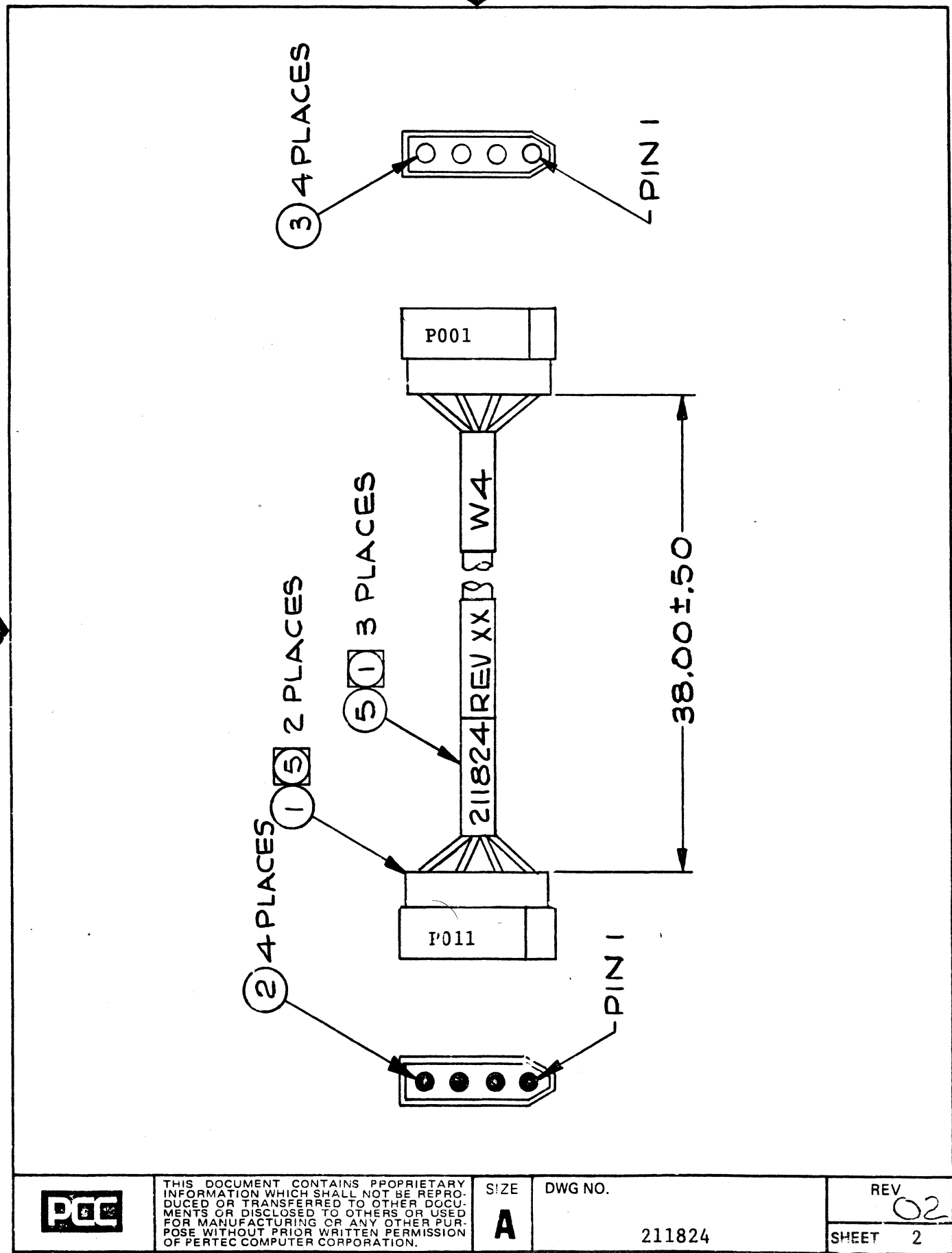
Item No.	Quantity Required					Part No.	Nomenclature or Description	Reference Designation
					-000			
1					1	320269-006	CONNECTOR, NYLON	J001
2					AR	510140-013	WIRE, STRANDED, INSULATED (105 ° C, 300V)	
3					5	320095-218	CONTACT, CONNECTOR (M)	
4					1	320095-118	CONTACT, CONNECTOR (F)	
5					8	320291-002	TERMINAL, PUSH-ON INSULATED	
6					3	320291-000	TERMINAL, PUSH-ON INSULATED	
7					3	420019-000	TIE, IDENTIFICATION	
8					AR	370016-XXX	TIE WRAP	
9					1	320269-000	CONNECTOR, RECEPTACLE	J018
10					1	320005-614	TERMINAL, RING TONGUE	
11								
12					3	320291-001	TERMINAL, PUSH-ON INSULATED	
13					1	320291-003	TERMINAL, PUSH-ON INSULATED	
14					AR	510140-018	WIRE, STRANDED, INSULATED (105 ° C, 300V)	

790406-03

ENGINEERING WIRE LIST

WIRE/ COMP NO.	FROM		TO		WIRE ITEM NO.	SIGNAL	COLOR	REMARKS	
	REF. DES.	TERM ITEM/TYPE	REF. DES.	TERM ITEM/TYPE					
1	J018-01	3	E2	5	2		WHITE		
2	T1-04	12	J018-03	4	2		↑		
3			TB1-1C	5	2				
4	J001-02	3	TB1-1A	5	2		↓		
5	F1-1	6	TB1-2A	5	2				
6	TB1-3A	13	T1-02	6	2				
7			E1	5	2				
8	J001-03	3	F1-2	6	2				
9	T1-03	12	TB1-3B/1B	5	2				
10	T1-01	12	TB1-2C	5	2		WHITE		
11			TB1-2B/3B	5	2				
12	J001-01	3	E3	10	14		GRN/YEL		
13	J001-04	3	E3		2		WHITE		
T=TIN WIRE S6=STRIP WIRE .375							DWG NO	211823	REV 02
							SHEET	3	

790242-02



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APPLICATION	
NEXT ASSY	MODEL
211672	NTP

REVISIONS				
REV	DESCRIPTION	DRFTG	APPVD	DATE
01	RELEASE PER DRO 202-80		EB	4/19/80
02	INCRP DCO 10649	JN/LM	pp EB	4/23/80

- 5 PERMANENTLY MARK CONNECTOR REF DESIGNATION USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPEC 100034.
4. PURCHASED CABLES MUST BE CSA CERTIFIED FOR USE IN ELECTRONIC DATA PROCESSING EQUIPMENT.
3. CABLE TO BE PURCHASED FROM A U.L. LISTED MANUFACTURER OR MANUFACTURED UNDER PCC CONTROL.
2. CABLE SHALL MEET THE PROVISIONS OF PERTEC SPECIFICATION 100277.
- 1 PERMANENTLY MARK ASSEMBLY NUMBER, "REV" AND APPROPRIATE REV LEVEL AND CABLE REF DESIGNATION USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPEC 100034.

NOTE: UNLESS OTHERWISE SPECIFIED.

DRAWN	F CLARK/kw	2-12-80
CHECK	TL RODRIGUEZ	2-27-80
APPR	Frank Melnick	27 Mar 80
RELEASE	G. Brink	4/19/80

**PCC PERTEC COMPUTER CORPORATION**  
DATA SYSTEMS OPERATIONS DIVISION

- UNLESS OTHERWISE SPECIFIED
- 1 TOLERANCES  
.xx ±.03 ANGULAR  
.xxx ±.010 ±0°30'
  - 2 REMOVE ALL BURRS
  - 3 BREAK ALL SHARP EDGES  
.010 APPROX
  - 4 MACH SURFACES 125 ✓ OR BETTER
  - 5 INTERPRET DWG PER ANS Y14
  - 6 DIM ARE IN INCHES

TITLE			
CABLE, AC POWER TO AUX P/S (W4)			
CODE IDENT. NO.	SIZE	DWG NO.	REV.
DC CODE 10	A	211824	02
SCALE	DO NOT SCALE DWG		SHEET 1 OF 4

PCC	THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR TRANSFERRED TO OTHER DOCUMENTS OR DISCLOSED TO OTHERS OR USED FOR MANUFACTURING OR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN PERMISSION OF PERTEC COMPUTER CORPORATION.	SIZE	DWG NO.	REV
		A	211824	02
		SHEET	2	

**MATERIAL LIST**

Item No.	Quantity Required						Part No.	Nomenclature or Description	Reference Designation
						-000			
1							2 320274-000	CONNECTOR	P001, P011
2							4 320095-214	CONTACT, CONNECTOR (M)	
3							4 320095-114	CONTACT, CONNECTOR (F)	
4							AR 510156-001	CORD, POWER, SHIELDED	
5							3 420019-000	TIE, IDENTIFICATION	

790406-03

**ENGINEERING WIRE LIST**

WIRE/ COMP NO.	FROM		TO		WIRE ITEM NO.	SIGNAL	COLOR	REMARKS
	REF. DES.	TERM ITEM/ TYPE	REF. DES.	TERM ITEM/ TYPE				
1	P001-01	3	P011-01	2	4	GND	GREEN/YEL	
2	P001-02	3	P011-02	2	4	NEUTRAL	BLUE	
3	P001-03	3	P011-03	2	4	ACHIG	BROWN	
4	P001-04	3	P011-04	2	4	SHIELD	TIN	
T = TIN WIRE S6 = STRIP WIRE .375							DWG NO 211824	REV 02
							SHEET	4

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR TRANSFERRED TO OTHER DOCUMENTS OR DISCLOSED TO OTHERS OR USED FOR MANUFACTURING OR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN PERMISSION OF PERTEC COMPUTER CORPORATION.

REVISIONS

REV	DESCRIPTION	DRFTG	APPVD	DATE
01	RELEASE PER DRO 588-80		EB	11/5/80 (R)
02	INCORP DCO 11424	BC/LM	EB	12/17/80

APPLICATION

NEXT ASSY	MODEL
211675	NTP

- 7. PERMANENTLY MARK CONNECTOR REF DESIGNATIONS USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPEC 100034.
- 6. PURCHASED HARNESES MUST BE CSA CERTIFIED FOR USE IN ELECTRONIC DATA PROCESSING EQUIPMENT.
- 5. HARNESS TO BE PURCHASED FROM A U.L. LISTED MANUFACTURER OR MANUFACTURED UNDER PCC CONTROL.
- 4. HARNESS SHALL MEET THE PROVISIONS OF PERTEC SPECIFICATION 100277.
- 3. IDENTIFY ALL LOOSE WIRE ENDS WITH APPROPRIATE TERMINATION DESIGNATIONS.
- 2. MANUFACTURE HARNESS USING HARNESS BOARD 940062-01.
- 1. PERMANENTLY MARK ASSEMBLY NUMBER, "REV" AND APPROPRIATE REVISION LEVEL AND CABLE REFERENCE DESIGNATION USING, .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPECIFICATION 100034.

NOTE: UNLESS OTHERWISE SPECIFIED.

DISTRIBUTION CLASS	C
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DRAWN	MURRAY/lm	10/22/80
CHECK	TL RODRIGUEZ	10-31-80
APPR	<i>[Signature]</i>	11-3-80
RELEASE	<i>[Signature]</i>	11/5/80

**PCC** PERTEC COMPUTER CORPORATION  
SYSTEMS ENGINEERING DIVISION

TITLE  
HARNESS, AUX P/S AC (W1)

- UNLESS OTHERWISE SPECIFIED
- 1 TOLERANCES  
.xx ±.03 ANGULAR  
.xxx ±.010 ±0°30'
  - 2 REMOVE ALL BURRS
  - 3 BREAK ALL SHARP EDGES .010 APPROX
  - 4 MACH SURFACES 125 ✓ OR BETTER
  - 5 INTERPRET DWG PER ANS Y14
  - 6 DIM ARE IN INCHES

CODE IDENT. NO.	SIZE	DWG NO.	REV.
DC CODE 10	A	211916	02
SCALE	DO NOT SCALE DWG	SHEET	OF

Item No.	Quantity Required					Part No.	Nomenclature or Description	Reference Designation
					-000			
1					1	320269-006	CONNECTOR, NYLON	J001
2					AR	510140-013	WIRE, STRANDED, INSULATED (105°C, 300V)	
3					5	320095-218	CONTACT, CONNECTOR (M)	
4					1	320095-118	CONTACT, CONNECTOR (F)	
5					12	320291-002	TERMINAL, PUSH-ON INSULATED	
6					6	320291-000	TERMINAL, PUSH-ON INSULATED	
7					3	420019-000	TIE, IDENTIFICATION	
8					AR	370016-XXX	TIE WRAP	
9					1	320269-000	CONNECTOR, RECEPTACLE	J018
10					1	320005-614	TERMINAL, RING TONGUE	
11								
12								
13								
14					AR	510140-018	WIRE, STRANDED, INSULATED (105°C, 300V)	

90406-03

ENGINEERING WIRE LIST

WIRE/ COMP NO.	FROM		TO		WIRE ITEM NO.	SIGNAL	COLOR	REMARKS
	REF. DES.	TERM ITEM/TYPE	REF. DES.	TERM ITEM/TYPE				
1	J018-01	3	E2	5	2		WHITE	
2	TB1-1C	5	J018-03	4	2			
3	TB1-1D	5	T1-04	6	2			
4	J001-02	3	TB1-1A	5	2			
5	F1-1	6	TB1-2A	5	2			
6	TB1-3A	5	T1-02	6	2			
7	TB1-3C	5	E1	5	2			
8	J001-03	3	F1-2	6	2			
9	T1-03	6	TB1-3B/1B	5	2			
10	T1-01	6	TB1-2C	5	2			
11	TB1-2D	5	TB1-2B/3B	5	2		WHITE	
12	J001-01	3	E3	10	14		GRN/YEL	
13	J001-04	3	E3		2		WHITE	

90406-03

8

7

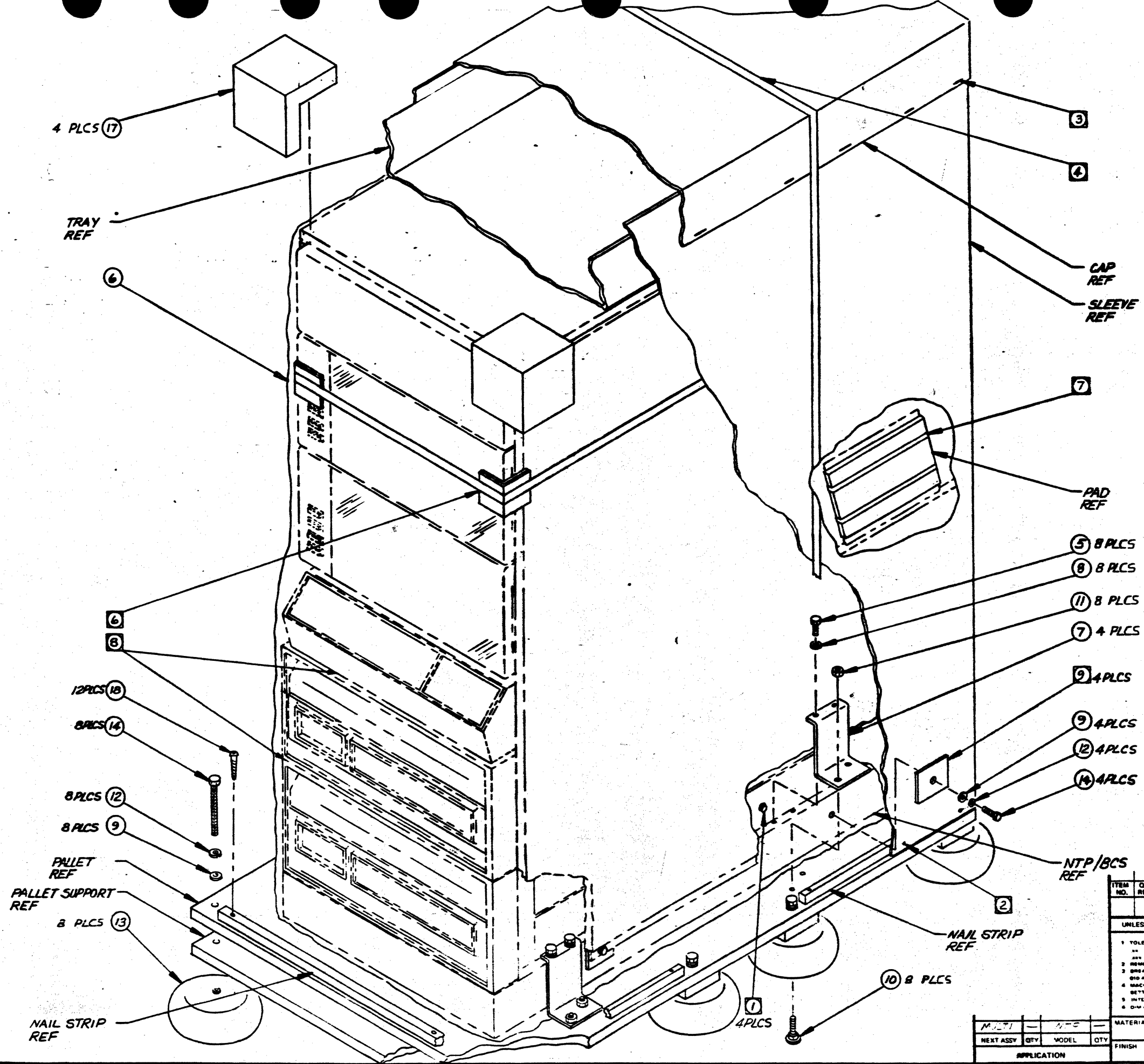
6

5

4

3

SYM	DESCRIPTION	DRFTG	APPROVED	DATE
01	RELEASE PER DRO 271-77	TA	EB	10-10-77
02	INCORP DCO 09832	MV	TR-EB	4/17/78
03	INCORP DCO 09926	DT	EB	4/17/78
04	INCORP DCO 10500	DT	EB	4/17/78
05	CODE 10 RELEASE W/O CHANGE PER DCO 10499	DT	EB	4/17/78
06	INCORP DCO 10559	BM	TR-EB	4/17/78
07	INCORP DCO 10843	F.C.	EB	7/19/80
08	INCORP DCO 11888	BH	TR-EB	7/19/80



NOTE: UNLESS OTHERWISE SPECIFIED

- 1 TIGHTEN SCREWS PROVIDED WITH D3000 DISK SLIDE TO PREVENT MOVEMENT OF DISK, (TORQUE 22-26 IN LBS)
- 2 INSTALL 6 NAILS MINIMUM ON LONGEST SIDE OF PALLET AND 4 MINIMUM ON SHORT SIDE TO SECURE SLEEVE TO PALLET.
- 3 USE STAPLES EVERY 6 INCHES MINIMUM TO SECURE CAP TO SLEEVE.
- 4 STRAP SHIPPING CONTAINER TO PALLET AS SHOWN 2 PLACES, USING STRETCH RESISTANT MATERIAL.
- 5 INSURE THAT THE HEADS ON THE DISK DRIVES ARE PROPERLY SECURED PRIOR TO SHIPPING.
- 6 SECURE TAPE DRIVE FRONT PANEL WITH STRAP AND PADDING AS SHOWN, ONE STRAP REQUIRED PER TAPE DRIVE.
- 7 TAPE PAD TO SERVICE PANEL, USING 3/4 IN. FILAMENT TAPE.
- 8 INSTALL PADDING BETWEEN THE TWO DISK DRIVES FRONT PANELS AND SECURE USING 3/4 IN. FILAMENT TAPE.
- 9 INSTALL SPACER BETWEEN FRAME AND SIDE PANEL.

ITEM NO.	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	DISTRIBUTION CLASS
MATERIAL LIST				
UNLESS OTHERWISE SPECIFIED		DRAWN	T. ACOSTA 10-2-77	<b>PCC</b> PERTEC COMPUTER CORPORATION
1 TOLERANCES		CHECK	TL. ROULENNEZ 10-8-77	
2 REMOVE ALL BURRS		APPR	REAR. GODFREY 10-8-77	
3 BREAK ALL SHARP EDGES		RELEASE	10-10-77	
<small>           4 MACH SURFACES 125° OR BETTER            5 INTERPRET DIMS PER ANSI Y 14            6 DIM ARE IN INCHES            THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR TRANSMITTED TO OTHERS OR USED FOR MANUFACTURING OR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN PERMISSION OF PERTEC COMPUTER CORP.         </small>				
TITLE		SHIPPING KIT, BCS		
CODE IDENT NO		SIZE	DWG NO	REV
D C CODE		D	220385	08
SCALE		DO NOT SCALE DWG		SHEET 1 OF 2

MULTI	QTY	MODEL	QTY



**MATERIAL LIST**

Sheet 2 of 2

ML  
Dwg. No. 220385

Rev. 08

Item No.	Quantity Required						Part No.	Nomenclature or Description	Reference Designation
					-001	-000			
1					1	1	750108-001	CONTAINER , SHIPPING	
2					0	1	111536-000	DESIGN REF MANUAL, BCS	
3					0	1	111537-000	DESIGN REF MANUAL, 3143 KYST	
4					0	1	110183-000	DESIGN REF MANUAL, KEYSTATION (PP2300)	
5					8	8	370578-000	BOLT, HEX HEAD, 1/4-28 X 5/8	
6					1	1	750019-003	BAG, POLYETHYLENE, CLEAR SHIPPING	
7					4	4	750018-000	BRACKET, SHIPPING	
8					8	8	370003-900	WASHER, 1/4 IN. SPLIT LOCK	
9					12	12	370579-000	WASHER, 5/16 IN. FLAT	
10					8	8	370546-002	BOLT, CARRIAGE (5/16-18 X 1 3/4 LG)	
11					8	8	370537-000	NUT, LOCKING 5/16-18	
12					12	12	370003-500	WASHER, 5/16 SPLIT LOCK	
13					8	8	750061-002	PAD, FOOT (BLUE)	
14					12	12	370578-005	BOLT, HEX HEAD 5/16-18 X 1	
15									
16									
17					4	4	750031-006	CORNER BLOCK, 5-7LB/FT <sup>3</sup> DENSITY REBONDED POLYURETHANE	
18					12	12	370478-028	SCREW, ROUND HEAD WOOD	

NOTE: PROCESS OTHERWISE SPECIFIED

1. REMOVE PCB ASSEMBLY TAPE CONTROL B1 PERIPHERAL EQUIPMENT DIVISION PART NUMBER 101292 FROM TRANSPORT AND MODIFY IT PER 261100 AND REINSTALL.
2. SHORTEN POWER CORD OF TRANSPORT TO 37 ± 1 INCHES MEASURED FROM THE STRAIN RELIEF. INSTALL ITEMS 4, 5 AND 6 ON POWER CORD AS SHOWN ON WIRE LIST OF THIS DRAWING.
3. PERMANENTLY MARK REF. DES. USING .09 HIGH CHARACTERS IN A CONTRASTING COLOR PER SPECIFICATION 100034 ON ITEM 9. ATTACH ITEM 9 TO CONNECTOR BODY (ITEM 6).
4. TO CONVERT FROM 115V TO 105V REMOVE 115VAC JUMPER ASSY AND REPLACE WITH ITEM 7.
5. TO CONVERT FROM 115V TO 230V, REMOVE 115VAC JUMPER ASSY AND REPLACE WITH ITEM 8.
6. TO CONVERT FROM 115V TO 220V REMOVE 115V JUMPER ASSY AND REPLACE WITH ITEM 11.
7. TO CONVERT FROM 115V TO 240V REMOVE 115V JUMPER ASSY AND REPLACE WITH ITEM 12.

WIRE LIST FOR POWER CORD MODIFICATION

TO		CONN. ITEM NO.	SIGNAL	COLOR	REMARKS
REF. DES.	TERMINAL ITEM NO.				
3 P004-1	4	6	LINE	BLACK	ON 115V XPORTS
3 P004-2	4		GROUND	GREEN	ON 115V XPORTS
3 P004-3	5		NEUTRAL	WHITE	ON 115V XPORTS
3 P004-1	4	6	LINE	BROWN	ON 230V XPORTS
3 P004-2	4		GROUND	GRN/YEL	ON 230V XPORTS
3 P004-3	5		NEUTRAL	BLUE	ON 230V XPORTS

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REVISIONS

REV	DESCRIPTION	DRFTG	APPVD	DATE
01	RELEASE PER DRO 474-77		EB	6/8/77 (R)
APPLICATION				
02	INCORP DCO 06056	MV TL	EB	8/16/77 (R)
03	Code 10 Rel W/O Changes per DCO 06410	MV TL	EB	2/7/78 (R)
04	INCORP DCO 09141	MV TL	EB	6/24/79 (R)
05	INCORP DCO 11299	MV	TLR EB	1/8/81 (R)
06	INCORP DCO 11663	LM FP	EB	3/23/81 (R)

DASH NUMBER	TYPE OF TAPE TRANSPORT
-000	9 TRK NRZI, R-A-W MODEL 7840/9, 105 VOLT
-001	9 TRK NRZI, R-A-W MODEL 7840/9, 115 VOLT
-002	9 TRK NRZI, R-A-W MODEL 7840/9, 230 VOLT
-003	7 TRK NRZI, R-A-W MODEL 7840/75, 105 VOLT
-004	7 TRK NRZI, R-A-W MODEL 7840/75, 115 VOLT
-005	7 TRK NRZI, R-A-W MODEL 7840/75, 230 VOLT
-006	9 TRK PE, R-A-W MODEL 7640/9, 105 VOLT
-007	9 TRK PE, R-A-W MODEL 7640/9, 115 VOLT
-008	9 TRK PE, R-A-W MODEL 7640/9, 230 VOLT
-009	9 TRK NRZI, R-A-W MODEL 7840/9, 220 VOLT
-010	7 TRK NRZI, R-A-W MODEL 7840/75, 220 VOLT
-011	9 TRK PE, R-A-W MODEL 7640/9, 220 VOLT
-012	9 TRK NRZI, R-A-W MODEL 7840/9, 240 VOLT
-013	7 TRK NRZI, R-A-W MODEL 7840/75, 240 VOLT
-014	9 TRK PE, R-A-W MODEL 7640/9, 240 VOLT

SEE SHEET 2 FOR NOTES.

DISTRIBUTION CLASS B

DRAWN	DEED/mv	6/2/77	<b>DATA SYSTEMS OPERATIONS</b>		
CHECK	<i>[Signature]</i>	6/2/77			
APPR	<i>[Signature]</i>	6/2/77			
RELEASE	<i>[Signature]</i>	6/8/77			
1 TOLERANCES .xx ±.03 ANGULAR .xxx ±.010 ±0°30' 2 REMOVE ALL BURRS 3 BREAK ALL SHARP EDGES .010 APPROX 4 MACH SURFACES 125 ✓ OR BETTER 5 INTERPRET DWG PER MIL-D-1000 6 DIM ARE IN INCHES			TITLE MODIFICATION, TAPE TRANSPORT		
CODE IDENT. NO.	SIZE	DWG NO.	REV.		
D/C CODE	A	250081	06		
SCALE	DO NOT SCALE DWG	SHEET 1 OF 5			



Item No.	Quantity Required						Part No.	Nomenclature or Description	Reference Designation
	-005	-004	-003	-002	-001	-000			
1				1	1	1	430168-000	TAPE TRANSPORT, NRZI MINI	
2	1	1	1				430168-001	TAPE TRANSPORT, NRZI MINI	
3							430169	TAPE TRANSPORT, PE MINI	
4	2	2	2	2	2	2	320095-214	CONTACT, CONNECTOR	
5	1	1	1	1	1	1	320095-114	CONTACT, CONNECTOR	
6	1	1	1	1	1	1	320274-000	CONNECTOR, NYLON INT'L	
7			1				211405-000	JUMPER ASSY, 105V	
8	1			1			211405-003	JUMPER ASSY, 230V	
9	AR	AR	AR	AR	AR	AR	700027	TAPE, IDENTIFICATION (BLACK)	
10	REF	REF	REF	REF	REF	REF	261100	PCBA, TAPE CONTROL	
11							211405-004	JUMPER ASSY, 220V	
12							211405-005	JUMPER ASSY, 240V	

Item No.	Quantity Required						Part No.	Nomenclature or Description	Reference Designation
	-011	-010	-009	-008	-007	-006			
1			1				430168-000	TAPE TRANSPORT, NRZI MINI	
2		1					430168-001	TAPE TRANSPORT, NRZI MINI	
3	1			1	1	1	430169	TAPE TRANSPORT, PE MINI	
4	2	2	2	2	2	2	320095-214	CONTACT, CONNECTOR	
5	1	1	1	1	1	1	320095-114	CONTACT, CONNECTOR	
6	1	1	1	1	1	1	320274-000	CONNECTOR, NYLON INT'L	
7						1	211405-000	JUMPER ASSY, 105V	
8				1			211405-003	JUMPER ASSY, 230V	
9	AR	AR	AR	AR	AR	AR	700027	TAPE, IDENTIFICATION (BLACK)	
10	REF	REF	REF	REF	REF	REF	261100	PCBA, TAPE CONTROL	
11	1	1	1	0	0	0	211405-004	JUMPER ASSY, 220V	
12							211405-005	JUMPER ASSY, 240V	

Item No.	Quantity Required			Part No.	Nomenclature or Description	Reference Designation
	-014	-013	-012			
1			1	430168-000	TAPE TRANSPORT, NRZI MINI	
2			1	430168-001	TAPE TRANSPORT, NRZI MINI	
3			1	430169	TAPE TRANSPORT, PE MINI	
4		2	2	320095-214	CONTACT, CONNECTOR	
5		1	1	320095-114	CONTACT, CONNECTOR	
6		1	1	320274-000	CONNECTOR, NYLON INT'L	
7				211405-000	JUMPER ASSY, 105V	
8				211405-003	JUMPER ASSY, 230V	
9		AR	AR	700027	TAPE, IDENTIFICATION (BLACK)	
10		REF	REF	261100	PCBA, TAPE CONTROL	
11				211405-004	JUMPER ASSY, 220V	
12		1	1	211405-005	JUMPER ASSY, 240V	

1.0 POWER CORD

- 1.1 CUT PLUG FROM AC POWER CORD 73.0  $\pm \frac{1}{2}$  INCHES FROM STRAIN RELIEF.
- 1.2 INSTALL ITEMS 5,6 AND 7 PER FIGURE 1.2.

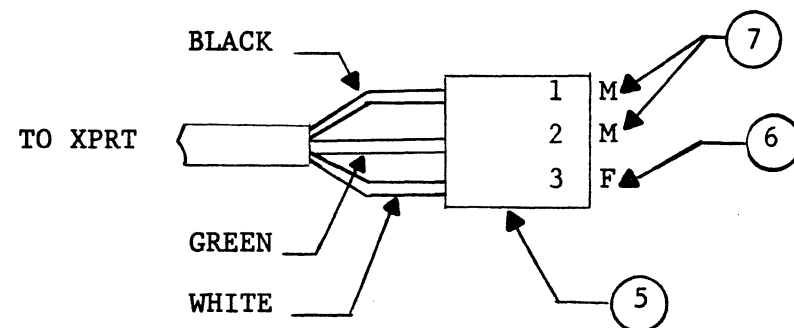


FIGURE 1.2

- 2.0 TO CONVERT FROM 115V TO 95V REMOVE 115VAC JUMPER ASSY AND REPLACE WITH ITEM 9.
- 3.0 TO CONVERT FROM 115V TO 220V REMOVE 115 VAC JUMPER ASSY AND REPLACE WITH ITEM 10.



THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR TRANSFERRED TO OTHER DOCUMENTS OR DISCLOSED TO OTHERS OR USED FOR MANUFACTURING OR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN PERMISSION OF PERTEC COMPUTER CORPORATION.

SIZE  
**A**

DWG NO.

250114

REV  
05

SHEET 2

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR TRANSFERRED TO OTHER DOCUMENTS OR DISCLOSED TO OTHERS OR USED FOR MANUFACTURING OR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN PERMISSION OF PERTEC COMPUTER CORPORATION.

REVISIONS

REV.	DESCRIPTION	DRFTG	APPVD	DATE
01	RELEASE PER DRO 198-79		EB	7/12/79
02	CODE 06 REL W/O CHANGE PER DCO 09294	KW	EB	7/30/79
03	INCORP DCO 09745	MV/KW	TLR EB	1/31/80
04	INCORP DCO 10023	TC/KW	EB	2/15/80
05	CODE 10 REL W/O CHANGES PER DCO 10496	LM	EB	4/8/80

APPLICATION

NEXT ASSY

MODEL

NTP

TABULATION

DASH NO.	DESCRIPTION
-000	9 TRK NRZI 95V
-001	9 TRK NRZI 115V
-002	9 TRK NRZI 220V
-003	7 TRK NRZI 95V
-004	7 TRK NRZI 115V
-005	7 TRK NRZI 220V
-006	9 TRK PE 95V
-007	9 TRK PE 115V
-008	9 TRK PE 220V



REMOVE PCBA TAPE CONTROL C1 AND MODIFY IT PER 260826 REIDENTIFY AND REINSTALL.

NOTE: UNLESS OTHERWISE SPECIFIED.

DRAWN	Norton/ms	3/20/79	<b>PERTEC COMPUTER CORPORATION</b> DATA SYSTEMS OPERATIONS DIVISION
CHECK	<i>[Signature]</i>	3-21-79	
APPR	<i>[Signature]</i>	7-11-79	
RELEASE	<i>[Signature]</i>	7/12/79	
UNLESS OTHERWISE SPECIFIED			TITLE
1 TOLERANCES .xx ±.03 ANGULAR .xxx ±.010 ±0°30' 2 REMOVE ALL BURRS 3 BREAK ALL SHARP EDGES .010 APPROX 4 MACH SURFACES 125 ✓ OR BETTER 5 INTERPRET DWG PER ANS Y14 6 DIM ARE IN INCHES			MODIFICATION, MAXI TAPE TRANSPORT
CODE IDENT. NO.	SIZE	DWG NO.	REV.
DC CODE 10	<b>A</b>	250114	05
SCALE	DO NOT SCALE DWG	SHEET 1	OF 4



PERTEC  
COMPUTER  
CORPORATION

MATERIAL LIST

Sheet 3 of ML Dwg. No. 250114 Rev. 05

Item No.	Quantity Required						Part No.	Nomenclature or Description	Reference Designation
	-005	-004	-003	-002	-001	-000			
1	0	0	0	1	1	1	430227-001	TAPE TRANSPORT, NRZI MAXI	C1 <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">1</span>
2	1	1	1	0	0	0	430227-002	TAPE TRANSPORT, NRZI MAXI	
3	0	0	0	0	0	0	430226	TAPE TRANSPORT, PE MAXI	
4									
5	1	1	1	1	1	1	320274-000	CONNECTOR, PLUG, NYLON INTL	
6	1	1	1	1	1	1	320095-114	CONTACT, FEMALE	
7	2	2	2	2	2	2	320095-214	CONTACT, MALE	
8	1	0	0	1	0	0	360047-017	FUSE, SLOW BLOW 3A, 3AB (CERAMIC)	
9	0	0	1	0	0	1	211405-000	JUMPER ASSY 95V	
10	1	0	0	1	0	0	211405-004	JUMPER ASSY 220V	
11	REF	REF	REF	REF	REF	REF	260826-000	PCBA, TAPE CONTROL	



PERTEC  
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CORPORATION

MATERIAL LIST

Sheet 4 of ML Dwg. No. 250114 Rev. 05

Item No.	Quantity Required						Part No.	Nomenclature or Description	Reference Designation
				-008	-007	-006			
1				0	0	0	430227-001	TAPE TRANSPORT, NRZI MAXI	C1 <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">1</span>
2				0	0	0	430227-002	TAPE TRANSPORT, NRZI MAXI	
3				1	1	1	430226	TAPE TRANSPORT, PE MAXI	
4									
5				1	1	1	320274-000	CONNECTOR, PLUG, NYLON INTL	
6				1	1	1	320095-114	CONTACT, FEMALE	
7				2	2	2	320095-214	CONTACT, MALE	
8				1	0	0	360047-017	FUSE, SLOW BLOW 3A, 3AB (CERAMIC)	
9				0	0	1	211405-000	JUMPER ASSY 95V	
10				1	0	0	211405-004	JUMPER ASSY 220V	
11				REF	REF	REF	260826-000	PCBA, TAPE CONTROL	

LEGEND FOR TYPES OF CHANGES:  
**A** = MANDATORY  
**B** = PHASE IN  
**C** = RECORD  
**X** = DOCUMENT REVISION LEVEL AT THE TIME CONFIGURATION IS ESTABLISHED

CONFIGURATION DESIGNATOR	CONFIG CONSISTS OF DRAWING NO'S	CONFIGURATIONS AFFECTED BY REV LEVELS (SEE LEGEND FOR CODING)																			
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
1	ASSY 260952			X	A				A	A	A		A	A				B	B		
	PCB 270614			X																	
	E/M 150433			X																	
	S/S 140637			X																	
	SCHEM 120901					X	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
2	ASSY 260952						A	A	A	A	A	C	A	A				B	B		
	PCB 270663			X	B	C															
	E/M 150475			X																	
	S/S 140777			X																	
	S/M 140797			X																	
3	ASSY 260952																	X	B	B	B
	PCB 270798			X																	
	E/M 150605			X																	
	S/S 141101			X																	
	S/M 141102			X																	
SCHEM 120992											X	C	C								

REVISIONS				
SYM	DESCRIPTION	DRFTG	APPROVED	DATE
03	INCORP DCO 03450	DKRT	TE	10/23/76
04	INCORP DCO 03719	DKRT	TE	11/17/76
05	INCORP DCO 04255	E.C.	TE	11/17/76
06	INCORP DCO 04321	DM	TE	11/17/76
07	INCORP DCO 04417	TE	TE	11/17/76
08	INCORP DCO 05008	TE	TE	11/17/76
09	INCORP DCO 05339	TE	TE	11/17/76
10	INCORP DCO 06091	TE	TE	11/17/76
11	CODE 10 REEL W/O CHANGE PER DCO 06467	TE	TE	11/17/76
12	INCORP DCO 06565	MP	TE	12/23/76
13	INCORP DCO 07124	TE	TE	1/16/77
14	INCORP DCO 09604	BM	TE	1/16/77
15	INCORP DCO 10269	BM	TE	4/18/78
16	INCORP DCO 10612	BM	TE	4/18/78
17	INCORP DCO 10758	BM	TE	4/18/78

- NOTE: UNLESS OTHERWISE SPECIFIED
- APPLY PIN-S/IH IDENTIFICATION LABEL (ITEM B) APPROX WHERE SHOWN.
  - MARK APPROPRIATE REV NUMBER WHERE SHOWN PER SPEC 100034 (RUBBER STAMP).
  - REFERENCE PCBA WORKMANSHIP STANDARD 170450.
  - INSTALL ITEM B RIGHT READING FROM COMPONENT SIDE.
  - DO NOT STUFF R40 & W1, W2, W3 (FUTURE OPTION).
  - MAXIMUM COMPONENT HEIGHT .450, MINIMUM AIR GAP .090.

QTY RECD	ITEM NO	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION
MATERIAL LIST			
NOTES UNLESS SPECIFIED		DRAWN	P. PADILLA 12-75
1. TOLERANCES XX ±.030 ANGULAR XXX ±.010 Ø30		CHECK	P. PADILLA 12-75
2. REMOVE ALL BURRS		APPR	W.P.K. 12-75
3. BREAK ALL SHARP EDGES DIG APPROX		RELEASE	G. BRINK 12-75
4. MACH SURFACES 125/ØR BETTER		THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR TRANSFERRED TO OTHER DOCUMENTS OR DISCLOSED TO OTHERS OR USED FOR MANUFACTURING OR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN PERMISSION OF PERTEC BUSINESS SYSTEMS	
5. INTERPRET DWG PER MIL-D-1000			
6. DIM ARE IN INCHES			
MATERIAL		CODE IDENT NO	SIZE DWG NO
FINISH		D.C. CODE	REV
APPLICATION		SCALE	DO NOT SCALE DWG SHEET 1 OF 7

271039	1	NTP	
		XL20	
NEXT ASSY	QTY	MODEL	QTY

8

7

6

5

4

3

2

1

D

D

C

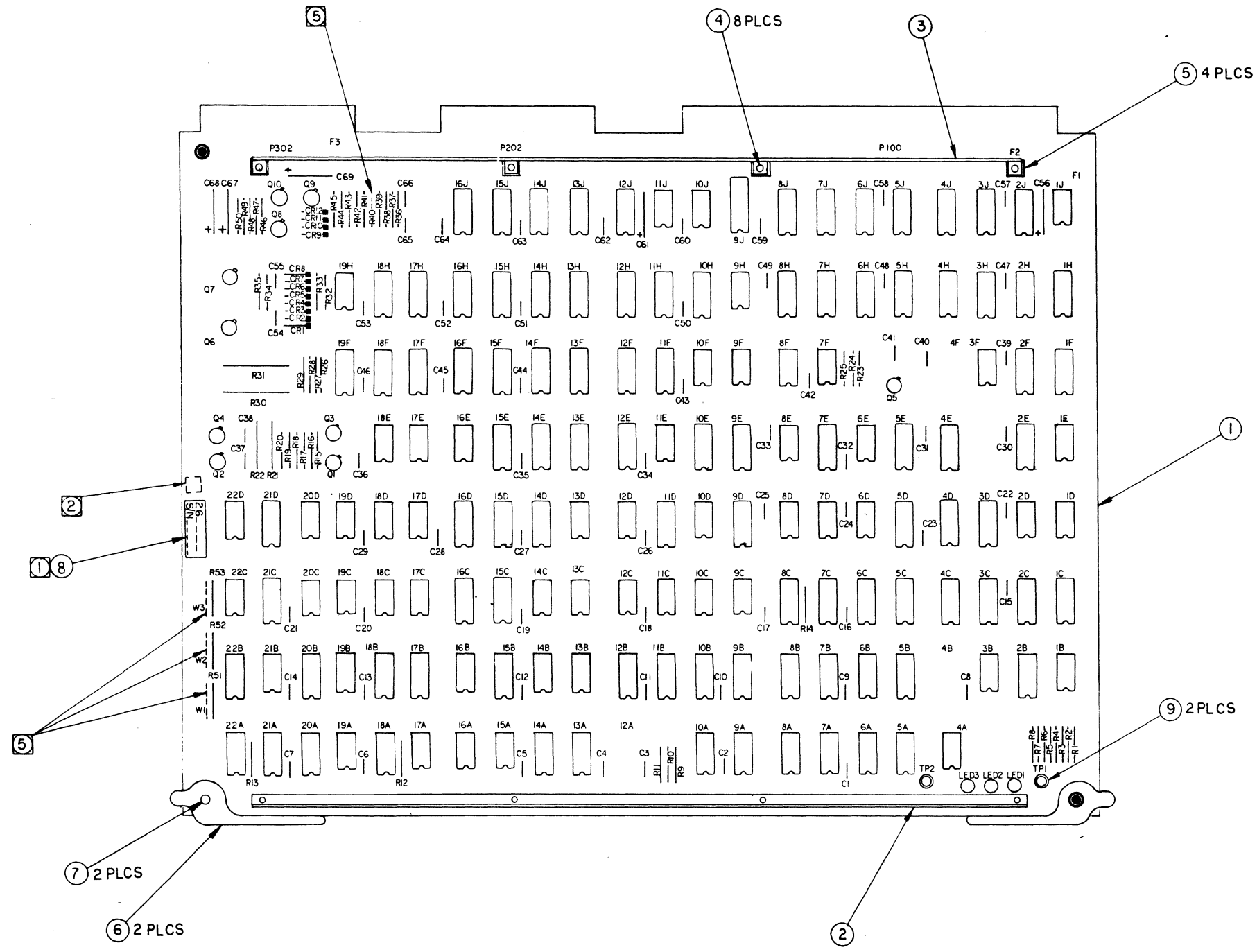
C

B

B

A

A



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	D	260952	17
DO NOT SCALE DWG		SHEET 2	

FORMAT 5

PERTEC BUSINESS SYSTEMS

MATERIAL LIST

Title		Advance Approval		Sheet 3 of 7	ML Dwg. No. 260952	Rev 17
Item No.	Quantity Required	-000	Part No.	Nomenclature or Description	Reference Designation	
1			270798	PCB		
2			241723	STIFFENER, PCB		
3			241725	STIFFENER, PCB		
4			370081-171	RIVET		
5			241219	INSULATOR, PCB STIFFENER		
6			240871	EJECTOR		
7			370181-504	ROLL PIN		
8			290231	LABEL, PCBA IDENTIFICATION		
9			320004-042	TERMINAL, TURRET	TP1, TP2	
10						
11						
12						
13						
14			330000	DIODE (1N4446)	CR1 THRU CR12	
15			500070	TRANSISTOR (2N2222)	Q1, Q3, Q5	
16			500051	TRANSISTOR (2N2369A)	Q8	
17			500069	TRANSISTOR (2N2905)	Q2, Q4, Q6, Q7, Q9, Q10	
18			380992-001	IC (74LS161A)	12B, 22A	
19			380447	IC (74S00)	6D	
20			380601	IC (74LS00)	15A, 14B, 9C, 13C, 17C, 22C, 13D, 17D, 18D, 20D, 1E, 16E, 8F	

PERTEC BUSINESS SYSTEMS

MATERIAL LIST

Title		Advance Approval		Sheet 4 of 7	ML Dwg. No. 260952	Rev 17
Item No.	Quantity Required	-000	Part No.	Nomenclature or Description	Reference Designation	
21			380021	IC (7404)	4A, 17A, 7F	
22			380497	IC (74S04)	6E	
23			380431	IC (74LS04)	19A, 1B, 14C, 1D, 8D, 13D, 18E	
24			380502	IC (74S08)	11C, 11E	
25			380498	IC (74LS08)	16A, 3B, 13B, 19B, 10C, 2D, 8E, 17E, 22D	
26			380593	IC (74LS10)	16B	
27			380637	IC (74LS11)	12D	
28			380638	IC (74LS14)	9F	
29			380520	IC (74S10)	10F	
30			380685	IC (74S240)	9J	
31			380639	IC (74LS21)	21B, 19C, 19D	
32			380147	IC (7426)	19H	
33			380499	IC (74S32)	7D	
34			380597	IC (74367)	2J	
35			380163	IC (7438)	10J, 11J	
36			380642	IC (74LS42)	20B	
37			380627	IC (DM8556)	4E, 12E, 13E, 14E, 12F, 13F, 14F, 4H, 6H, 12H, 4J, 6J	
38			380427	IC (74LS86)	18C	
39			380659	IC (74LS93)	3F	

PERTEC BUSINESS SYSTEMS

MATERIAL LIST

Title		Advance Approval		Sheet 5 of 7	ML Dwg. No. 260952	Rev 17
Item No.	Quantity Required	-000	Part No.	Nomenclature or Description	Reference Designation	
40			380448	IC (74109)	7E, 9E, 10E	
41			380644	IC (74LS109)	13A, 14A, 15B, 17B, 18B, 16C, 21C, 9D, 11D, 14D, 15D, 16D, 15E, 19F, 10H	
42			380290	IC (74125)	12C, 20C, 9H	
43			380606	IC (74S132)	1J	
44			380645	IC (74S133)	5D	
45			380611	IC (74LS138)	2B, 8B, 9B, 10B, 11B	
46			380647	IC (74LS139)	15C	
47			380619	IC (74LS153)	5E	
48			380751-000	IC (74LS161)	5A, 6A, 7A, 8A, 20A, 21A, 22B, 1C, 2C, 1H, 2H, 13H, 15H, 12J, 14J, 21D	
49			380750	IC (74LS163)	18A, 3C, 4C, 5C, 6C, 7C, 8C	
50			380658	IC (74LS251)	15F, 16F	
51			380622	IC (74LS257)	9A, 10A, 5B, 6B, 7B, 3D, 4D, 14H, 13J	
52			380653	IC (74376)	2E	
53			380654	IC (74390)	1F, 2F	
54			380386	IC (75114)	17F, 16H, 17H, 15J, 16J	

PERTEC BUSINESS SYSTEMS

MATERIAL LIST

Title		Advance Approval		Sheet 6 of 7	ML Dwg. No. 260952	Rev 17
Item No.	Quantity Required	-000	Part No.	Nomenclature or Description	Reference Designation	
55			380387	IC (75115)	18F, 18H	
56			380656	IC (DM8613)	11F, 11H	
57			380625	IC (DS8835)	3H, 5H, 7H, 8H, 3J, 5J, 7J, 8J	
58			300000-202	CAP, CERAMIC, .002UF, ±20%, 1KV	C37, C38	
59			300005-333	CAP, TANT, 33UF, ±10%, 10V	C56, C61	
60			300006-153	CAP, TANT, 15UF, ±10%, 20V	C67, C68, C69	
61			300009-103	CAP, CERAMIC, .01UF, ±20%, 100V	C66	
62						
63			300010-223	CAP, CERAMIC, .022UF, ±10%, 100V	C54, C55	
64			300206-503	CAP, CERAMIC, .05UF, +80% -20%, 10V	C1 THRU C36, C39 THRU C53, C57 THRU C60, C62 THRU C65, R37	
65			470000-101	RESISTOR, 100 OHMS, ±10%, 1/4W	R1, R2, R3, R4, R5, R9, R12, R13, R14, R26, R27, R28, R29, R48, R51, R52, R53, R50	
66			470000-102	RESISTOR, 1K, ±10%, 1/4W	R15, R18	
67			470000-103	RESISTOR, 10K, ±10%, 1/4W	R6, R7, R8	
68			470000-123	RESISTOR, 12K, ±10%, 1/4W	R36	
69			470000-151	RESISTOR, 150 OHMS, ±10%, 1/4W	R19, R20, R34, R35	
70			470000-202	RESISTOR, 2K, ±10%, 1/4W	R16, R17	
71			470000-221	RESISTOR, 220 OHMS, ±10%, 1/4W		
72			470000-222	RESISTOR, 2.2K, ±10%, 1/4W		

PERTEC BUSINESS SYSTEMS

MATERIAL LIST

Title		Advance Approval		Sheet 7 of 7	ML Dwg. No. 260952	Rev 17
Item No.	Quantity Required	-000	Part No.	Nomenclature or Description	Reference Designation	
73			470000-272	RESISTOR, 2.7K, ±10%, 1/4W	R49	
74						
75			470000-471	RESISTOR, 470 OHMS, ±10%, 1/4W	R38, R39, R41, R42, R43, R44, R46, R47, R11	
76			470024-512	RESISTOR, 5.1K, ±5%, 1/4W	R45	
77			470000-681	RESISTOR, 680 OHMS, ±10%, 1/4W	R10	
78			470024-330	RESISTOR, 33 OHMS, ±5%, 1/4W	R23	
79			470024-221	RESISTOR, 220 OHMS, ±5%, 1/4W	R24	
80			470001-221	RESISTOR, 220 OHMS, ±10%, 1/2W	R32, R33	
81			470041-470	RESISTOR, 47 OHMS, ±5%, 1/2W	R25	
82			470013-100	RESISTOR, 1 OHM, ±10%, 2W	R21, R22	
83			470102-004	RESISTOR, 51 OHMS, ±3%, 3W	R30, R31	
84			520057	LED, MV5025	LED1, LED2, LED3	
85						
86						
87						

LEGEND FOR TYPES OF CHANGES:

- A = MANDATORY
- B = PHASE IN
- C = RECORD
- X = DOCUMENT REVISION LEVEL AT THE TIME CONFIGURATION IS ESTABLISHED

CONFIGURATION DESIGNATOR	CONFIG CONSISTS OF DRAWING NOS	CONFIGURATIONS AFFECTED BY REV LEVELS (SEE LEGEND FOR CODING)																						
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	ASSY 260955																							
	PCB 270633																							
	EM 150152	X																						
	SM 140738	X																						
	S/S 140738	X																						
SCHEM 120941																								
2	PCBA 260955																							
	PCB 270673	X																						
	EM 150485	X																						
	SM 140803	X																						
	SS 140802	X																						
SCHEM 120998	X																							
3	PCBA 260955																							
	PCB 270743		X																					
	EM 150551	X																						
	SM 140955	X																						
	SS 140970	X																						
SCHEM 120998																								

23	INCORP DCO 11163	BM	MP	EB	11/10/80
22	INCORP DCO 11273	#	EB	11/2/80	
21	INCORP DCO 10561	#	EB	4/5/80	
20	INCORP DCO 10593	#	EB	4/8/80	
19	INCORP DCO 10591	#	EB	4/8/80	
18	INCORP DCO 09620	#	EB	4/7/79	
17	INCORP DCO 08945	BM	MP	EB	7/1/79
16	INCORP DCO 09165	BM	MP	EB	7/1/79
15	INCORP DCO 08087	#	EB	9/25/79	
14	INCORP DCO 08017	#	EB	9/25/79	
13	INCORP DCO 07672	TL	#	EB	9/25/79
12	INCORP DCO 06551	J.D	EB	12/5/77	
11	CODE 10 REL NO CHANGE PER DCO 06467	initial	EB	11/1/77	
10	INCORP DCO 04899	J.D	EB	1/22/77	
09	INCORP DCO 04597	K.O.	EB	11/5/76	
08	INCORP DCO 04576	K.O.	EB	11/5/76	
07	INCORP DCO 04575	K.O.	EB	11/5/76	
06	INCORP DCO 04527	K.O.	EB	11/5/76	
05	INCORP DCO 04226	D.C.	EB	11/5/76	
04	INCORP DCO 04110	D.C.	EB	11/5/76	
03	INCORP DCO 04103	D.C.	EB	11/5/76	
02	RELEASE PER DCO INCORP DCO 03768	K.K.	EB	6/22/76	
01					

FOR REWORK INSTRUCTIONS  
SEE SH. 3

SEE SHEET 2 FOR NOTES  
NOTES: UNLESS OTHERWISE SPECIFIED

DRAWN	J. NORTON	4-20-75	<b>PERTEC</b> BUSINESS SYSTEMS DIVISION TITLE: PCBA, RIGID DISK CONTROLLER CODE IDENT NO: D 250955 SCALE: 1/	REV: 23 SHEET 1 OF 7
CHECK	J. NORTON	4-20-75		
APPR	WSP KEK	4-20-75		
RELEASE	G. FRANK	4-20-75		
THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PRIOR WRITTEN PERMISSION OF PERTEC BUSINESS SYSTEMS.			DC CODE: 10 DO NOT SCALE DWG	REV: 23 SHEET 1 OF 7

DISTRIBUTION CLASS B

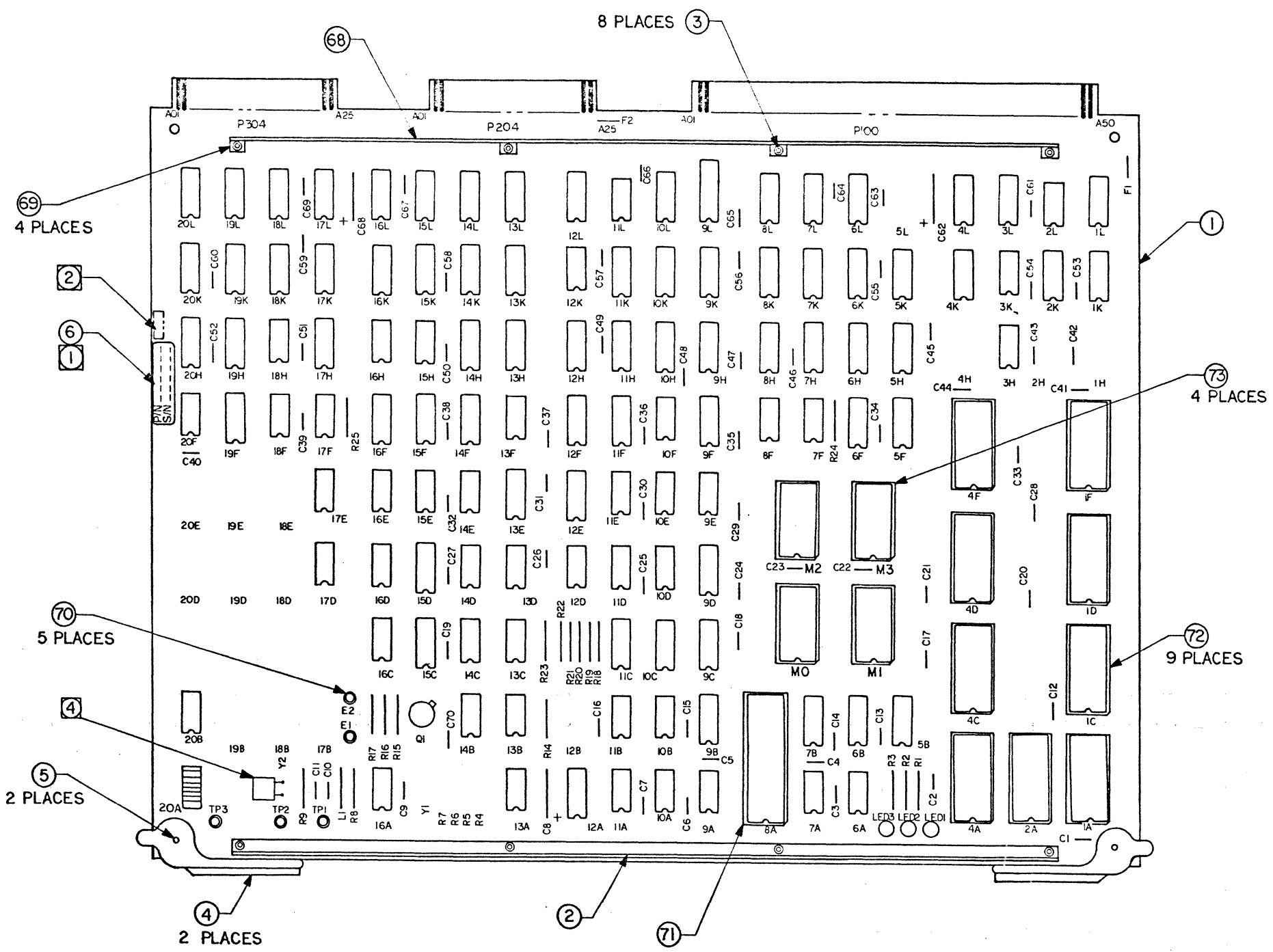
SYMBOL	DESCRIPTION	DRFTG	APPVD	DATE	NEXT ASSY	QTY	MODEL	QTY
	REVISIONS							
	APPLICATION							

D

C

B

A



- ④ BEND LEADS AND INSTALL IN POSITION SHOWN.
  - ③ REFERENCE PCBA WORKMANSHIP STANDARD 170450.
  - ② MARK APPROPRIATE REV NUMBER WHERE SHOWN PER SPEC 100034 (RUBBER STAMP).
  - ① APPLY P N/S N IDENTIFICATION LABEL (ITEM 6) APPROX WHERE SHOWN.
- NOTES: UNLESS OTHERWISE SPECIFIED



REV 17  
REWORK INSTRUCTIONS CONFIG 1,2 & 3

REMOVE IC 380595 (74LS74) AT LOCATION 11E  
ON COMPONENT SIDE

CUT ETCH AT 11E-11 2 PLACES  
INSTALL IC (PIN 380529 (74LS74) AT LOCATION 11E  
INSTALL THE FOLLOWING JUMPERES USING 30 AWG  
BLUE KYNAR WIRE (PIN 510023-030)

FROM: 14E-10 TO: 10D-9  
FROM: 11E-11 TO: 10D-8

REV 18

REWORK INSTRUCTIONS CONFIG 3

ADD THE FOLLOWING JUMPER USING 30 AWG BLUE KYNAR  
WIRE, P/N 510023-030.

FROM TO  
16A-PIN 4 16A-PIN 5

REMOVE THE FOLLOWING COMPONENTS:

- Y1, CRYSTAL, 12.5 MZ
- R5 & R7, RESISTOR, 220 OHMS, 10%, 1/4W
- R8, RESISTOR, 560 OHMS, 10%, 1/4W
- R6, RESISTOR, 1.5K, 10%, 1/4W
- U6 & U2L, SOCKET, 16 PIN DIP

REV 19

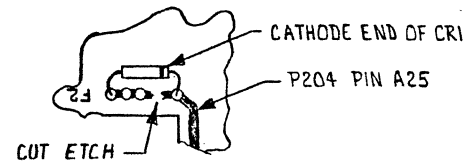
REWORK INSTRUCTIONS

ADD THE FOLLOWING JUMPER USING 30 AWG, BLUE  
KYNAR WIRE, P/N 510023-030

FROM: 11L-PIN 8 TO: 18L-PIN 11

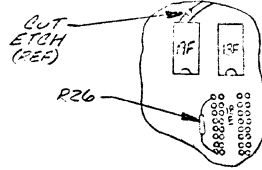
REV 22 REWORK INSTRUCTIONS CONFIG. 3

CUT ETCH ON COMP SIDE AND INSTALL CRI (DIODE IN4001 P/N 330006-000)  
IN PLACE OF ETCHED FUSE AS SHOWN



REV 2  
REWORK INSTRUCTIONS CONFIG 1,2 & 3  
ON COMPONENT SIDE  
ADD JUMPERES USING 30 AWG BLUE KYNAR WIRE (PIN 510023-030)  
AS FOLLOWS: FROM: 14E-1 TO: 17E-10  
17E-9 TO: 17E-9  
17E-8 TO: 18E-9  
18E-9 TO: 18L-15

CUT ETCH AT 19F-10  
ADD R26, 1K, VAW (PIN 470000-102) AS SHOWN:



PERTEC BUSINESS SYSTEMS

MATERIAL LIST

Title: PCBA, RIGID DISK CONTROLLER				Advance Approval	Sheet 4 of 7	ML Dwg. No. 260955	Rev 2 E
Item No.	Quantity Required			Part No.	Nomenclature or Description	Reference Designation	
			-000				
1			1	270743	PCB, RIGID DISK CONTROLLER		
2			1	241723	STIFFENER, PCB		
3			8	370061-171	RIVET		
4			2	240871	INJECTOR, EJECTOR		
5			2	370181-504	ROLL PIN		
6			1	290231	LABEL, PCBA IDENTIFICATION		
7			3	300025-333	CAPACITOR 33 UF 10%, 10V	C8, C62, C68	
8			2	300003-220	CAPACITOR 22 PF 5%, 500 V	C10, C11	
9			64	300206-503	CAPACITOR .05UF +80% -20% 10V	C1 THRU C7, C9, C12 THRU C61, C63 THRU C67, C69	
10			1	500070	TRANSISTOR 2N2222	Q1	
11			1	530123-000	CRYSTAL 20MHZ	Y2	
12			1	330006-000	DIODE, IN4001	CR1	
13			1	490067-001	INDUCTOR, 1.8 uh	L1	
14			3	520057	LED (MV5025)	LED1, LED2, LED3	
15			3	470000-151	RESISTOR, 150 OHMS +10% 1/4W	R1, R2, R3	
16			10	470000-102	RESISTOR 1K OHMS ±10%, 1/4W	R24, R18, R19, R20, R21, R14, R22, R23, R25, R26	
17			1	470000-221	RESISTOR 220 OHMS ± 10%, 1/4W	R16	
18			2	470000-471	RESISTOR 470 OHMS ±10%, 1/4W	R9, R8	

PERTEC BUSINESS SYSTEMS

MATERIAL LIST

Title: PCBA, RIGID DISK CONTROLLER				Advance Approval	Sheet 5 of 7	ML Dwg. No. 260955	Rev 2 E
Item No.	Quantity Required			Part No.	Nomenclature or Description	Reference Designation	
			-000				
19							
20							
21				3 470070-102	NETWORK, RESISTOR 1K	11L, 12K, 20B	
22				2 470099-001	NETWORK, RESISTOR 220/330	19K, 19L	
23							
24				1 480.30-007	SWITCH, DIP	20A	
25				2 380051	I C (7408)	6A, 14B	
26				8 380702	I C (DS 6833)	1K, 4K, 1L, 3L, 4L, 6L, 7L, 8L,	
27				1 380502	I C (74S05)	9E	
28				6 380431	I C (74LS04)	7F, 3K, 9A, 11E, 18H, 7A	
29				1 380685	I C (74S240)	9L	
30				1 380290	I C (74125)	13F	
31				1 380497	I C (74S04)	10D	
32				3 380498	I C (74LS03)	16D, 10A, 16H	
33				5 380601	I C (74LS03)	8F, 15H, 12D, 13A, 16E	
34				7 380644	I C (74LS109)	14F, 12E, 15C, 19F, 12A, 15F, 17H	
35				4 380595	I C (74LS74)	14D, 14C, 13B, 13C	
36				3 380520	I C (74S10)	11D, 14E, 10B	
37				1 380591	I C (74LS02)	2L	

PERTEC BUSINESS SYSTEMS

MATERIAL LIST

Title: PCBA, RIGID DISK CONTROLLER				Advance Approval	Sheet 6 of 7	ML Dwg. No. 260955	Rev 2 E
Item No.	Quantity Required			Part No.	Nomenclature or Description	Reference Designation	
			-000				
38			1	380645	I C (74S133)	2K	
39			1	380163	I C (7438)	13D	
40			1	380448	I C (74109)	13E	
41			1	380611	I C (74LS138)	15D	
42			2	380499	I C (74S32)	17D, 10E	
43			3	380447	I C (74S00)	15E, 16A, 17E	
44			1	380608	I C (74LS20)	10F	
45			6	380704	I C (74LS298)	7K, 8K, 6K, 5K, 9H, 10H	
46			1	380630	I C (3001)	8A	
47			5	380751	I C (74LS161)	9B, 7B, 13H, 14H, 16F	
48			3	380524	I C (74S74)	11A, 16C, 11E	
49							
50			4	380650	I C (74S174)	5B, 6B, 5F, 6F	
51			2	380708	I C (74S251)	9D, 9C	
52			1	380594	I C (74LS30)	3H	
53			1	380632	I C (3003)	2A	
54			8	380631	I C (3002)	1A, 4A, 1C, 4C, 1D, 4D, 1F, 4F	
55			3	380529	I C (74S138)	9F, 12F, 11F	
56			9	380622	I C (74LS257)	8H, 7H, 6H, 5H, 20K, 20L, 10L, 9K, 11K	
57			8	380586	I C (74LS174)	10K, 11H, 20H, 16K, 17K, 18K, 12H, 10C	

PERTEC BUSINESS SYSTEMS

MATERIAL LIST

Title: PCBA, RIGID DISK CONTROLLER				Advance Approval	Sheet 7 of 7	ML Dwg. No. 260955	Rev 2 E
Item No.	Quantity Required			Part No.	Nomenclature or Description	Reference Designation	
			-000				
58				5 380597	I C (74367)	15K, 17L, 15L, 16L, 18L	
59				1 380606	I C (74S132)	20F	
60				1 380707	I C (74LS51)	18F	
61				2 380621	I C (74LS195)	13K, 14K	
62				2 380616	I C (74173)	13L, 14L	
63				1 380653	I C (74376)	19H	
64				1 380709	I C (9401)	17F	
65				1 300004-104	CAPACITOR, .1UF, 50V, 20%	C70	
66				1 470024-150	RESISTOR 15 OHMS ±5%, 1/4W	R15	
67				1 470024-470	RESISTOR, 47 OHMS, ±5%, 1/4W	R17	
68				1 241725	STIFFENER, PCB		
69				4 241219	INSULATOR, PCB STIFFENER		
70				5 320004-042	TERMINAL, TURRET	E1, E2, TP1, TP2, TP3	
71				1 320339-009	SOCKET, IC 40 PIN	FOR 8A	
72				9 320339-008	SOCKET, IC 28 PIN	FOR 1A, 2A, 4A, 1C, 4C, 1D, 4D, 1F, 4F	
73				4 320339-007	SOCKET, IC 24 PIN	M0, M1, M2, M3	
74				1 380864-000	IC, RDC UCODE ROM #1, VER 03	M0	
75				1 380864-001	IC, RDC UCODE ROM #2, VER 03	M1	
76				1 380864-002	IC, RDC UCODE ROM #3, VER 03	M2	
77							
78				1 380864-003	IC, RDC UCODE ROM #4, VER 03	M3	

8

7

6

5

4

3

2

1

LEGEND FOR TYPES OF CHANGES:

- A = MANDATORY
- B = PHASE IN
- C = RECORD
- X = DOCUMENT REVISION LEVEL AT THE TIME CONFIGURATION IS ESTABLISHED

CONFIGURATION DESIGNATOR	CONFIG CONSISTS OF DRAWING NO'S	CONFIGURATIONS AFFECTED BY REV LEVELS (SEE LEGEND FOR CODING)																			
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
1	PCBA 260958	X	A	A	C	C	C	B	C	A											
	PCB 270639	X	C	C																	
	EM 150453	X	C																		
	SM 140738	X	C																		
	SS 140737	X	C																		
2	SCHEM 120905					X	C	C	C	C	C										
	PCBA 260958									X	A										
	PCB 270797		X																		
	EM 150604	X																			
	SM 141100	X																			
SS 141099	X																				
SCHEM 120905											X	C									

REVISIONS				
SYM	DESCRIPTION	DFTG	APPROVED	DATE
02	INCRP DCO 04157	MP	EB	2/6/77
03	INCRP DCO 04816	MP	EB	5/25/77
04	INCRP DCO 05531	MP	EB	6/10/77
05	INCRP DCO 06359	MP	EB	7/20/77
06	CODE 10 REL W/O CHANGE FER DCO 06467	MP	EB	11/1/77
07	INCRP DCO 06627	MP	EB	12/3/77
08	INCRP DCO 07894	MP	EB	3/25/78
09	INCRP DCO 08626	MP	EB	4/18/78
10	INCRP DCO 08799	MP	EB	5/23/78

NOTE: UNLESS OTHERWISE SPECIFIED  
I. SEE SHEET 2 FOR ASSY NOTES

FOR REWORK INSTRUCTIONS, SEE SHEET 3

DRAWN		P. Padilla	11-16-76	PERTEC BUSINESS SYSTEMS	
CHECK		PADILLA	11-16-76	TITLE	
APPR		T. STEINBERG	11-16-76	PCBA, P E READ LOGIC	
RELEASE		G. B. ...	11-16-76	CODE IDENT NO	SIZE DWG NO
APPLICATION		2151R	127P	DC CODE	REV
NEXT ASSY	QTY	MODEL	QTY	10	D 260958 10
SCALE 1:1				DO NOT SCALE DWG	SHEET 1 OF 8

8

7

6

5

4

3

2

1

D

D

C

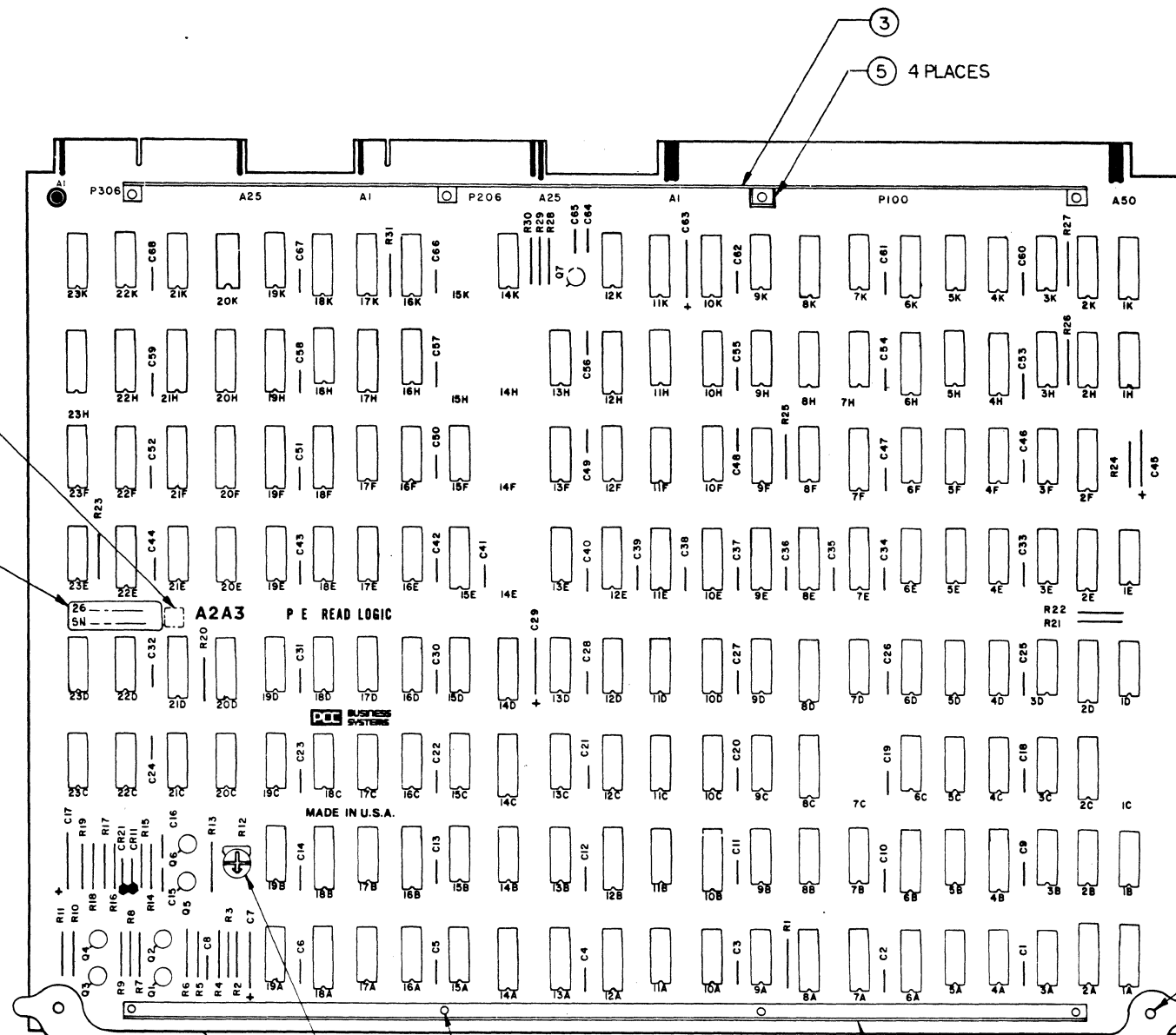
C

B

B

A

A



4 WITH TAPE SYSTEM IN IDLE, ADJUST R12 TO OBTAIN A TRACKING OSCILLATOR CENTER FREQUENCY OF 4.4MHZ ± 0.05MHZ. USE LOCKTITE (ITEM 59) TO HOLD POT POSITION

3. REF PCBA WORKMANSHIP STD 170450.

2 MARK APPROPRIATE REV. NO. WHERE SHOWN PER SPEC 100034 (RUBBER STAMP).

1 APPLY PCBA IDENTIFICATION LABEL APPROX WHERE SHOWN.

NOTES: UNLESS OTHERWISE SPECIFIED

SIZE	DWG NO	REV
D	260958	10
DO NOT SCALE DWG		SHEET 2

8

7

6

5

4

3

2

1

REVISION 10

REWORK INSTRUCTIONS, 2ND CONFIG

CUT ETCH: 14K-PIN 8 COMPONENT SIDE

ADD THE FOLLOWING JUMPERS USING 30 AWG BLUE KYNAR WIRE, P/N 510023-030, ON COMPONENT SIDE.

<u>FROM:</u>	<u>TO:</u>
18K-PIN 9	15F-PIN 1
15F-PIN 2	10K-PIN 14
10K-PIN 14	10K-PIN 13
10K-PIN 12	23D-PIN 6
10K-PIN 9	14K-PIN 8
10K-PIN 11	10K-PIN 15
10K-PIN 15	10K-PIN 1

D

D

C

C

B

E

<small>THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR TRANSFERRED TO OTHER DOCUMENTS OR DISCLOSED TO OTHERS OR USED FOR MANUFACTURING OR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN PERMISSION OF PERTEC COMPUTER CORPORATION.</small>	SIZE	DWG NO	REV
	D	260958	10
DO NOT SCALE DWG		SHEET 3	

PERTEC BUSINESS SYSTEMS

MATERIAL LIST

Title				PCBA, P. E. READ LOGIC		Advance Approval		Sheet 1 of 5	ML Dwg. No. 260958	Rev. 10
Item No.	Quantity Required	Part No.	Nomenclature or Description	Reference Designation						
		-000								
1		270797-000	PCB, P. E. READ LOGIC							
2		241723	STIFFENER, PCB							
3		241725	STIFFENER, PCB							
4		370081-171	RIVET							
5		241219	INSULATOR, PCB STIFFENER							
6		240871	EJECTOR							
7		370181-504	ROLL PIN							
8		290231	LABEL, PCBA IDENTIFICATION							
9										
10										
11		2	330000	DIODE, 1N4446	CR11, CR21					
12		1	500070	TRANSISTOR, 2N2222	Q7					
13		4	500051	TRANSISTOR, 2N2369A	Q1, Q2, Q5, Q6					
14		2	500025	TRANSISTOR, 2N2907	Q3, Q4					
15										
16		2	380020	IC, 7400	13E, 23E					
17		17	380601	IC, 74LS00	2B, 8B, 14B, 5D, 6D, 11D, 12D, 17D, 18D, 5F, 6F, 16F, 18E, 10F, 12F, 21I, 7H					
18		2	380050	IC, 7402	21E, 14K					

PERTEC BUSINESS SYSTEMS

MATERIAL LIST

Title				PCBA, P. E. READ LOGIC		Advance Approval		Sheet 5 of 5	ML Dwg. No. 260958	Rev. 10
Item No.	Quantity Required	Part No.	Nomenclature or Description	Reference Designation						
		-000								
19		23	380591	IC, 74LS02	3B, 9B, 15B, 3C, 4C, 6C, 9C, 10C, 12C, 15C, 16C, 18C, 20C, 19E, 20E, 3F, 4F, 6F, 3H, 11H, 16H, 9K, 21K					
20		4	380021	IC, 7404	19A, 23D, 22K, 23K					
21		8	380431	IC, 74LS04	3D, 9D, 15D, 22D, 3E, 15F, 17F, 10H					
22		1	380096	IC, 7406	23C					
23		6	380498	IC, 74LS08	3A, 9A, 15A, 22C, 8H, 3K					
24		5	380022	IC, 7410	1B, 7B, 13B, 19D, 1H					
25		2	380593	IC, 74LS10	8F, 12K					
26		2	380638	IC, 74LS14	1811, 19K					
27		1	380608	IC, 74LS20	9F					
28		16	380614	IC, 74LS32	4A, 10A, 16A, 5C, 11C, 17C, 21C, 4D, 10D, 16D, 4E, 5F, 11F, 17F, 911, 4K					
29		1	380030	IC, 7442	18F					
30		1	380105	IC, 74H51	19C					

PERTEC BUSINESS SYSTEMS

MATERIAL LIST

Title				PCBA, P. E. READ LOGIC		Advance Approval		Sheet 6 of 5	ML Dwg. No. 260958	Rev. 10
Item No.	Quantity Required	Part No.	Nomenclature or Description	Reference Designation						
		-000								
31		2	380169	IC, 74H53	17E, 16F					
32		5	380427	IC, 74LS86	1D, 7D, 13D, 1E, 13H					
33		9	380059	IC, 7495	5A, 11A, 17A, 5B, 11B, 17B, 5H, 5K, 7K					
34		9	380018	IC, 7496	6A, 12A, 18A, 6B, 12B, 18B, 6H, 6K, 8K					
35		12	380644	IC, 74LS109	4B, 10B, 16B, 20D, 21D, 20F, 21F, 22F, 23F, 4H, 10K, 20K					
36		7	380645	IC, 74S133	7E THRU 12E, 15E					
37		3	380619	IC, 74LS153	20H, 21H, 22H					
38		1	380185	IC, 74157	23H					
39		13	380175	IC, 74161	1A, 2A, 7A, 8A, 13A, 14A, 17H, 19H, 1K, 2K, 11K, 16K, 17K					
40		11	380586	IC, 74LS174	2C, 8C, 14C, 2D, 8D, 14D, 2E, 22E, 2F, 7F, 12H					

PERTEC BUSINESS SYSTEMS

MATERIAL LIST

Title				PCBA, P. E. READ LOGIC		Advance Approval		Sheet 7 of 5	ML Dwg. No. 260958	Rev. 10
Item No.	Quantity Required	Part No.	Nomenclature or Description	Reference Designation						
		-000								
41		1	380501	IC, 74S280	13C					
42		1	470099-001	NETWORK, TERMINATOR (220/330)	18K					
43		1	470104-005	RES, VARIABLE, PCB MTG, 1K	R12 (4)					
44		1	470000-150	RES, 15 OHMS, $\pm 10\%$ , 1/4W	R30					
45		1	470000-680	RES, 68 OHMS, $\pm 10\%$ , 1/4W	R15					
46		1	470000-151	RES, 150 OHMS, $\pm 10\%$ , 1/4W	R7					
47		1	470000-221	RES, 220 OHMS, $\pm 10\%$ , 1/4W	R29					
48		1	470000-391	RES, 390 OHMS, $\pm 10\%$ , 1/4W	R4					
49		1	470000-470	RES, 47 OHMS, $\pm 10\%$ , 1/4W	R28					
50		13	470000-102	RES, 1K, $\pm 10\%$ , 1/4W	R1, R5, R8, R9, R20 THRU R27, R31					
51		1	470000-152	RES, 1.5K, $\pm 10\%$ , 1/4W	R2					
52		2	470000-222	RES, 2.2K, $\pm 10\%$ , 1/4W	R16, R17					
53		1	470000-153	RES, 15K, $\pm 10\%$ , 1/4W	R3					
54		1	470006-422	RES, 422 OHMS, $\pm 1\%$ , 1/4W	R6					
55		1	470006-681	RES, 681 OHMS, $\pm 1\%$ , 1/4W	R14					
56		2	470006-698	RES, 698 OHMS, $\pm 1\%$ , 1/4W	R18, R19					
57		1	470006-825	RES, 825 OHMS, $\pm 1\%$ , 1/4W	R13					
58		2	470007-150	RES, 1.5K, $\pm 1\%$ , 1/4W	R10, R11					
59		AR	703105	SEALER, ALKYD BASED (GLYPTAL)						
60										

PERTEC BUSINESS SYSTEMS

MATERIAL LIST

Title				PCBA, P. E. READ LOGIC		Advance Approval		Sheet 8 of 5	ML Dwg. No. 260958	Rev. 10
Item No.	Quantity Required	Part No.	Nomenclature or Description	Reference Designation						
		-000								
61										
62		2	300003-151	CAP, 150PF, $\pm 5\%$ , 500V	C8, C15					
63		1	300005-123	CAP, 12UF, $\pm 10\%$ , 10V	C17					
64		4	300005-333	CAP, 33UF, $\pm 10\%$ , 10V	C7, C29, C45, C63					
65		61	300206-503	CAP, .05UF, $+80\%$ $-20\%$ , 10V	C1 THRU C6, C9 THRU C14, C16, C18 THRU C28, C30 THRU C44, C46 THRU C62, C64 THRU C68					
66										
67										
68										
69										
70		1	380132	IC, 7432	19B					
71		1	380176	IC, 74163	19F					

**LEGEND FOR TYPES OF CHANGES:**  
 A - MANDATORY  
 B - PHASE IN  
 C - RECONF.  
 X - DOCUMENT REVISION LEVEL AT THE TIME CONFIGURATION IS ESTABLISHED

CONFIGURATION DESIGNATOR	CONFIG CONSISTS OF DRAWING NO'S	CONFIGURATIONS AFFECTED BY REV LEVELS (SEE LEGEND FOR CODING)																									
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
1	PCBA 260959				X	A	A	A	A				A	A	A	A	A	A	A	A	A	A	A	A	A	B	A
	PCB 270640	X																									
	EM 150454	X																									
	SM 140740	X																									
	SS 140739	X																									
SCHM 120939							X	C	C	C	C	C	C														
2	PCBA 260959								X	A	A	A	A	A	A	A	A	A	C	A	A	A	B	A	B	A	
	PCB 270672	X	C	A	C																						
	EM 150484	X																									
	SM 140801	X																									
	SS 140800	X																									
SCHM 120999	X	C	C	C	C	C	C	C	C	C																	

26	INCORP DCO 10569	JWR	EB	4/1/76	Ⓢ
25	INCORP DCO 09997	BM	EB	4/6/76	Ⓢ
24	INCORP DCO 09548	DD	TLR	2/10/77	Ⓢ
23	INCORP DCO 09547	DD	TLR	2/10/77	Ⓢ
22	INCORP DCO 08427	BM	EB	1/11/77	Ⓢ
21	INCORP DCO 08017	JH	EB	10/2/76	Ⓢ
20	INCORP DCO 06348	BM	EB	8/15/76	Ⓢ
19	CODE IO REL W/O CHANGE PER DCO 06467	BW	EB	1/11/77	Ⓢ
18	INCORP DCO 05577	TC	TLR	8/23/77	Ⓢ
17	INCORP DCO 05658	WK	EB	6/4/77	Ⓢ
16	INCORP DCO 05561	WK	EB	5/1/77	Ⓢ
15	INCORP DCO 05483	RL	EB	5/1/77	Ⓢ
14	INCORP DCO 05418	Lat	EB	4/27/77	Ⓢ
13	INCORP DCO 04815	Lat	EB	4/27/77	Ⓢ
12	INCORP DCO 05011	Real	EB	4/14/77	Ⓢ
11	INCORP DCO 04796	Real	EB	1/18/77	Ⓢ
10	INCORP DCO 04576	R.O.	EB	1/15/76	Ⓢ
09	INCORP DCO 04522	K.O.	EB	1/20/76	Ⓢ
08	INCORP DCO 04293	K.O.	EB	1/23/76	Ⓢ
07	INCORP DCO 04258	L.C.	EB	2/2/76	Ⓢ
06	INCORP DCO 04148	DC	EB	1/17/76	Ⓢ
05	INCORP DCO 03769	DD	EB	2/24/76	Ⓢ
C4	SEE DCO 03731	PP	JM TS	6/2/76	
C3	SEE DCO 03728	PP	JM TS	5/25/76	
C2	SEE DCO 03607	PP	EP KK	4/20/76	
01	RELEASE PER DRO 177-76	PP	K.K.	4/9/76	
SYM	DESCRIPTION	DRFTG	APPVD	DATE	

SEE SHEET 3 FOR REWORK INSTRUCTIONS

DRAWN	PADILLA	4/1/76	<b>PERTEC</b> BUSINESS SYSTEMS DIVISION TITLE PCBA, MAG TAPE CONTROLLER
CHECK	PADILLA	4/8/76	
APPR	K.K.	4/9/76	
RELEASE	G.BRINK	4/9/76	
CODE IDENT. NO.	SIZE	DWG NO.	REV
10	D	260959	26
SCALE 1/1	DO NOT SCALE DWG	SHEET 1	OF 8

SEE SHEET 2 FOR NOTES

REVISIONS

APPLICATION

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR TRANSFERRED TO OTHER DOCUMENTS OR DISCLOSED TO OTHERS OR USED FOR MANUFACTURING OR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN PERMISSION OF PERTEC BUSINESS SYSTEMS

8 7 6 5 4 3 2 1

D

C

B

A

4 PLACES (3)  
4 PLACES (4)  
4 PLACES (5)



(1) (8)  
(2)  
(1)

(76) 9 PLACES

(73) 4 PLACES

(2)  
(4) 4 PLACES (75)

(74) 8 PLACES

(6)  
(7) 2 PLACES

3. REFERENCE PCBA WORKMANSHIP STANDARD 170450.

(2) MARK APPROPRIATE REV NO WHERE SHOWN PER SPEC 100035 (RUBBER STAMP).

(1) APPLY P/N-S/N LABEL (ITEM 8) APPROX WHERE SHOWN.

NOTES: UNLESS OTHERWISE SPECIFIED

SIZE	DWG NO	REV
D	260959	26
DO NOT SCALE DWG		SHEET 2



REV 10

REWORK INSTRUCTIONS

- REMOVE ITEM 55/IC, 3625/ 380717; FROM SOCKETS AT LOCATIONS 13B, 14B, 8C THRU 13C
- INSTALL THE FOLLOWING IC'S:  
 QTY 1/(P/N) 380732-000/IC, MTC UCODE ROM #1/AT LOCATION 14B  
 QTY 1/(P/N) 380732-001/IC, MTC UCODE ROM #2/AT LOCATION 13B  
 QTY 1/(P/N) 380732-002/IC, MTC UCODE ROM #3/AT LOCATION 9C  
 QTY 1/(P/N) 380732-003/IC, MTC UCODE ROM #4/AT LOCATION 8C  
 QTY 1/(P/N) 380732-004/IC, MTC UCODE ROM #5/AT LOCATION 10C  
 QTY 1/(P/N) 380732-005/IC, MTC UCODE ROM #6/AT LOCATION 11C  
 QTY 1/(P/N) 380732-006/IC, MTC UCODE ROM #7/AT LOCATION 13C  
 QTY 1/(P/N) 380732-007/IC, MTC UCODE ROM #8/AT LOCATION 12C

REV 11

REWORK INSTRUCTIONS: (2<sup>ND</sup> CONFIG. ONLY)

ADD IC AT LOCATION 18E; P/N 380175 (74161)

CUT ETCH AT 15H-1 (COMPONENT SIDE)

ADD JUMPERS USING 30 AWG BLUE KYNAR WIRE, P/N 510023-030  
COMPONENT SIDE:

FROM:	TO:
9H-15	10H-7
13D-10	18E-1
21C-9	18E-2
21C-4	18E-3
18E-3	18E-4
18E-4	18E-5
18E-5	18E-6
18E-6	18E-7
17H-8	18E-8
19D-6	18E-9
18E-7	18E-10
19D-5	18E-15
15H-1	18E-15
19E-16	18E-16

REV 12

REWORK INSTRUCTIONS: (2<sup>ND</sup> CONFIG. ONLY)

DISCONNECT JUMPER @ 17H-8 AND RESOLDER IT TO 17H-7

REV 13

REWORK INSTRUCTIONS (ALL CONFIGURATIONS)

REMOVE ITEM 79 IC (P/N) 380732-000 FROM SOCKET AT LOCATION 14B  
 " " 80 " " " -001 " " " " 13B  
 " " 81 " " " -002 " " " " 9C  
 " " 82 " " " -003 " " " " 8C  
 " " 83 " " " -004 " " " " 10C  
 " " 84 " " " -005 " " " " 11C  
 " " 85 " " " -006 " " " " 13C  
 " " 86 " " " -007 " " " " 12C

INSTALL THE FOLLOWING IC'S

QTY 1, (P/N) 380794-010/IC, MTC UCODE ROM #1 AT LOCATION 14B  
 " " -011 " " " #2 " " " 13B  
 " " -012 " " " #3 " " " 9C  
 " " -013 " " " #4 " " " 8C  
 " " -014 " " " #5 " " " 10C  
 " " -015 " " " #6 " " " 11C  
 " " -016 " " " #7 " " " 13C  
 " " -017 " " " #8 " " " 12C

REV 14

REWORK INSTRUCTIONS

CUT ETCH: 17F-PIN 7 (SOLDER SIDE)  
 13K-PIN 2 (SOLDER SIDE)

ADD THE FOLLOWING JUMPERS USING 30 AWG BLUE KYNAR WIRE,  
 P/N 510023-030 ON COMPONENT SIDE:

FROM: 17F-PIN 7 TO: 19D-PIN 5  
 FROM: 19D-PIN 6 TO: 17E-PIN 4

REMOVE IC, P/N 380794-010, FROM SOCKET AT LOCATION 14B  
 " " " " -011 " " " " 13B  
 " " " " -012 " " " " 9C  
 " " " " -013 " " " " 8C  
 " " " " -014 " " " " 10C  
 " " " " -015 " " " " 11C  
 " " " " -016 " " " " 13C  
 " " " " -017 " " " " 12C

INSTALL THE FOLLOWING IC'S

QTY 1, (P/N) 380805-020/IC, MTC UCODE ROM #1 AT LOCATION 14B  
 " " -021 " " " #2 " " " 13B  
 " " -022 " " " #3 " " " 9C  
 " " -023 " " " #4 " " " 8C  
 " " -024 " " " #5 " " " 10C  
 " " -025 " " " #6 " " " 11C  
 " " -026 " " " #7 " " " 13C  
 " " -027 " " " #8 " " " 12C

REV 15

REWORK INSTRUCTIONS

REMOVE JUMPERS

FROM: 17F-PIN 7 TO: 19D-PIN 5  
 FROM: 19D-PIN 6 TO: 17E-PIN 4

ADD THE FOLLOWING JUMPERS USING 30AWG WIRE, PART NO. 510023-030

FROM: 17F-7 TO: 17H-13  
 FROM: 17H-12 TO: 17E-4

REV 16

REWORK INSTRUCTIONS (ALL CONFIGURATIONS)

REMOVE JUMPERS FROM: 17F-7 TO: 17H-13  
 FROM: 17H-12 TO: 17E-4  
 ADD JUMPER USING 30AWG BLUE KYNAR WIRE P/N 510023-030  
 FROM: 17F-7 TO: 17E-4  
 (OR DO NOT CUT ETCH 17F-PIN 7 SOLDER SIDE FOR REV 14)

REV 17

REWORK INSTRUCTIONS (ALL CONFIGURATIONS)

- CUT ETCH, SOLDER SIDE @ 9D-11
- ADD JUMPER USING 30AWG BLUE KYNAR WIRE  
 PART NUMBER 510023-030  
 FROM: 9D-11 TO: 9D-8

REV 20

REWORK INSTRUCTIONS (ALL CONFIGURATIONS)

ON COMPONENT SIDE:  
 CUT ETCH AT: 10K-1 (2 PLACES)  
 ADD THE FOLLOWING JUMPERS USING 30 AWG  
 BLUE KYNAR WIRE P/N 510023-030  
 ON COMPONENT SIDE

FROM	TO
11K-1	9K-1
12E-9	9E-9
12E-10	11K-8
12E-8	10K-1

REV 22

REWORK INSTRUCTIONS (CONFIG 1 ONLY)

REMOVE JUMPER WIRE FROM: 9K-11 TO: 10K-1

REV 23

REWORK INSTRUCTIONS (CONFIG. 1 & 2)

- REMOVE IC 74LS74 (P/N 380595) AT LOCATION 4F.
- ON COMPONENT SIDE, CUT ETCH AT 4F-PIN 3.
- INSTALL IC 74LS74 (P/N 380524) IN LOCATION 4F.
- ON COMPONENT SIDE, ADD JUMPER USING BLUE KYNAR WIRE (P/N 510023-030) FROM: 4F-PIN 3 TO: 2F-PIN 13.

REV 25

REWORK INSTRUCTIONS CONFIG 1 & 2

REMOVE IC AT LOCATION	AND	INSTALL AT LOCATION	
380805-020	14B	381083-000	14B
380805-021	13B	381083-001	13B
380805-022	9C	381083-002	9C
380805-023	8C	381083-003	8C
380805-024	10C	381083-004	10C
380805-025	11C	381083-005	11C
380805-026	13C	381083-006	13C
380805-027	12C	381083-007	12C

PERTEC BUSINESS SYSTEMS

MATERIAL LIST

Title		Advance Approval	Sheet	ML Dwg. No.	260959	Rev.	26
Item No.	Quantity Required	Part No.	Nomenclature or Description	Reference Designation			
1		270672	PCB, MAG TAPE CONTROLLER				
2	1	241723	STIFFENER, PCB				
3	1	241725	STIFFENER, PCB				
4	8	370081-171	RIVET				
6	4	241219	INSULATOR				
6	2	240871	INJECTOR, EJECTOR				
7	2	370181-504	ROLL PIN				
8	1	290231	LABEL, PCBA IDENTIFICATION				
9	1	380020	I.C. (7400)	22C			
10	1	380447	I.C. (74S00)	4H			
11	2	380601	I.C. (74LS00)	11F, 15H			
12	2	380519	I.C. (74S02)	2F, 3H			
13	1	380591	I.C. (74LS02)	15A			
14	2	380497	I.C. (74S04)	11D, 13K			
15	3	380431	I.C. (74LS04)	9A, 10A, 19D			
16	2	380051	I.C. (7409)	5A, 12H			
17	1	380502	I.C. (74S08)	10H			
18	3	380498	I.C. (74LS08)	13A, 21D, 11K			
19	4	380520	I.C. (74S10)	14A, 3E, 10E, 8K			
20	1	380593	I.C. (74LS10)	16D			

PERTEC BUSINESS SYSTEMS

MATERIAL LIST

Title		Advance Approval	Sheet	ML Dwg. No.	260959	Rev.	26
Item No.	Quantity Required	Part No.	Nomenclature or Description	Reference Designation			
21	1	380521	I.C. (74S11)	11E			
22	4	380638	I.C. (74LS14)	16H, 17H, 14K, 18K			
23	1	380608	I.C. (74LS20)	12F			
24	1	380594	I.C. (74LS30)	6A			
25	2	380499	I.C. (74S32)	12E, 10F			
26							
27	1	380163	I.C. (7438)	5K			
28	2	380524	I.C. (74S74)	15B, 16B, 4F			
29	1	380595	I.C. (74LS74)	16C, 21C, 17D, 22D, 1E, 16E, 3F, 10K, 12K 18E			
30	1	380175	I.C. (74161)				
31	2	380448	I.C. (74109)	11H, 9K			
32	1	380644	I.C. (74LS109)	17E			
33	1	380290	I.C. (74125)	6K			
34	1	380645	I.C. (74S133)	3H			
35	3	380529	I.C. (74S138)	13D, 14D, 13E			
36	1	380611	I.C. (74LS138)	1F			
37	1	380582	I.C. (74S139)	12D			
38	1	380619	I.C. (74LS153)	17C			
39	2	380491	I.C. (74LS157)	17F, 9H			
40	5	380751	I.C. (74LS161)	9B, 10B, 18C, 19C, 20C			
41	4	380650	I.C. (74S174)	8A, 8B, 14C, 15C			

PERTEC BUSINESS SYSTEMS

MATERIAL LIST

Title		Advance Approval	Sheet	ML Dwg. No.	260959	Rev.	26
Item No.	Quantity Required	Part No.	Nomenclature or Description	Reference Designation			
42	9	380586	I.C. (74LS174)	9D, 9E, 14E, 19F, 14H, 20H, 21H, 22H, 23H			
43	4	380588	I.C. (74LS175)	20D, 20E, 21E, 22E			
44	1	380613	I.C. (74S189)	15D			
45	2	380685	I.C. (74S240)	1K, 7K			
46	2	380708	I.C. (74S251)	8D, 10D			
47	4	380622	I.C. (74LS257)	5E, 6E, 7E, 8E			
48	7	380703	I.C. (74LS258)	15E, 14F, 15F, 16F, 21F, 22F, 23F			
49	2	380501	I.C. (74S280)	18E, 20F			
50	7	380704	I.C. (74LS298)	5F THRU 9F, 18H, 19K			
51	6	380596	I.C. (74368)	19E, 19H, 20K THRU 23K			
52	1	380630	I.C. (3001)	11A			
53	8	380631	I.C. (3002)	1B, 3B, 4B, 6B, 1D, 3D, 4D, 6D			
54	1	380632	I.C. (3003)	1A			
55							
56	8	380702	I.C. (DS 8833)	1H, 2H, 5H THRU 8H, 2K, 4K			
57	3	470000-470	RESISTOR, 47 OHMS ±10%, 1/4W	R1, R2, R3,			
58	1	470000-330	RESISTOR, 33 OHMS ±10%, 1/4W	R15			
59	2	470000-221	RESISTOR, 220 OHMS ±10%, 1/4W	R16, R17			
60							
61							
62	7	470000-102	RESISTOR, 1K OHMS ±10%, 1/4W	R4, R5, R6, R11, R12, R13, R14			

PERTEC BUSINESS SYSTEMS

MATERIAL LIST

Title		Advance Approval	Sheet	ML Dwg. No.	260959	Rev.	26
Item No.	Quantity Required	Part No.	Nomenclature or Description	Reference Designation			
63	2	470000-471	RESISTOR, 470 OHMS ±10%, 1/4W	R8, R9			
64	3	520057	LED (MV5025)	LED1, LED2, LED3			
65	1	500070	TRANSISTOR (2N2222)	Q1			
66	1	530057	CRYSTAL, 12 MHZ	Y1			
67	1	480130-007	SWITCH DIP	16K			
68							
69	7	300005-333	CAP, 33UF ±10%, 10V	C5, C17, C21, C35, C51, C54 C70			
70	70	300206-503	CAP, .05UF +80% -20%, 10V	C1 THRU C4, C6 THRU C16, C18, C19, C20, C22 THRU C34, C36 THRU C50, C52, C53, C55 THRU C69, C71 THRU C77			
71	2	470099-001	NETWORK, RESISTOR (220/330)	15K, 17K			
72	2	470070-102	NETWORK, RESISTOR (1K)	7D, 4E			
73	4	320004-042	TERMINAL, TURRET	TP1, TP2, GND, STEP			
74	8	320339-004	SOCKET, 18 PIN DIP	FOR 13B, 14B, 8C, 9C, 10C, 11C, 12C, 13C			
75	1	320339-009	SOCKET, 40 PIN DIP	FOR 11A			
76	9	320339-008	SOCKET, 28 PIN DIP	FOR 1A, 1B, 3B, 4B, 6B, 1D, 1D, 4D, 6D			
77	1	300077-103	CAP, CER DISC, .01UF, 100V-20%, +80%	C78			
78	1	300003-121	CAP, MICA, 120PF, 500V, 5%	C79			

PERTEC BUSINESS SYSTEMS

MATERIAL LIST

Title		Advance Approval	Sheet	ML Dwg. No.	260959	Rev.	26
Item No.	Quantity Required	Part No.	Nomenclature or Description	Reference Designation			
79	1	381083-000	IC, MTC UCODE ROM #0	14B			
80	1	381083-001	IC, MTC UCODE ROM #1	13B			
81	1	381083-002	IC, MTC UCODE ROM #2	9C			
82	1	381083-003	IC, MTC UCODE ROM #3	8C			
83	1	381083-004	IC, MTC UCODE ROM #4	10C			
84	1	381083-005	IC, MTC UCODE ROM #5	11C			
85	1	381083-006	IC, MTC UCODE ROM #6	13C			
86	1	381083-007	IC, MTC UCODE ROM #7	12C			

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LEGEND FOR TYPES OF CHANGES:  
 A = MANDATORY  
 B = PHASE IN  
 C = RECORD  
 X = DOCUMENT REVISION LEVEL AT THE  
 TIME CONFIGURATION IS ESTABLISHED

CONFIGURATION DESIGNATOR	CONFIG CONSISTS OF DRAWING NO'S	CONFIGURATIONS AFFECTED BY REV LEVELS (SEE LEGEND FOR CODING)																			
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
1	ASSY 260960				X	A	A		A	C	A	A	A	A							
	PCB 270636	X																			
	EM 150450	X																			
	SM 140732	X																			
	SS 140731	X																			
	SCHEM 120907									C	C	C	C								
CONFIGURATION DESIGNATOR	CONFIG CONSISTS OF DRAWING NO'S	CONFIGURATIONS AFFECTED BY REV LEVELS (SEE LEGEND FOR CODING)																			
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
2	ASSY 260960							X	A	C	A	A	A	A							
	PCB 270662	X	A	C																	
	EM 150474	X																			
	SM 140779	X																			
	SS 140778	X																			
	SCHEM 120995	X	C	C	C	C															
3	PCBA 260960															X	B	A			
	PCB 270827	X	A																		
	EM 150635	X																			
	SM 141170	X																			
	SS 141171	X	A																		
	SCHEM 121223	X																			

REVISIONS				
SYM	DESCRIPTION	DRTG	APPROVED	DATE
04	<del>INCORP DCO 03864</del>	DART		
05	INCORP DCO 04060	D.C.		
06	INCORP DCO 04283	D.C.		
07	INCORP DCO 04343	DM		
08	INCORP DCO 04366	DM		
09	CODE 10 REL W/D CHANGE PER DCO 06467	DM		
10	INCORP DCO 06346	DM		
11	INCORP DCO 08079	DM		
12	INCORP DCO 09454	DM		
13	INCORP DCO 09606	DM		
14	INCORP DCO 09625	DM		
15	INCORP DCO 10569	DM		
16	INCORP DCO 10417	DM		

SEE SHEET 2 FOR NOTES.

NOTES: UNLESS OTHERWISE SPECIFIED

QTY RECD	ITEM NO	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	
MATERIAL LIST				
NOTES UNLESS SPECIFIED			DRAWN	DART
1 TOLERANCES XX - DIM ANGULAR XX - DIM 90°			CHECK	J.E.M. 5-13-76
2 REMOVE ALL BURRS			APPR	D.D. 5-19-76
3 BREAK ALL SHARP EDGES DIP APPROX 1/2"			RELEASE	G.E.PINK 5-19-76
4 HALF S. FACES 1/2" OR BETTER			THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR TRANSMITTED TO OTHERS WITHOUT THE WRITTEN PERMISSION OF PERTEC BUSINESS SYSTEMS	
5 INTERPACT DRG PER MIL-1000			TITLE	
6 DIM ARE IN INCHES			PCBA, DATA COMM CONTROLLER	
APPLICATION			CODE IDENT NO	SIZE DWG NO
NEXT ASSY QTY MODEL			10	D 260960
MATERIAL			SCALE	REV
FINISH			1/1	16
SCALE			1/1	DC NOT SCALE DWG SHEET 1 OF 3

XL20	
UTP	
211135	1
NEXT ASSY	QTY
MODEL	QTY

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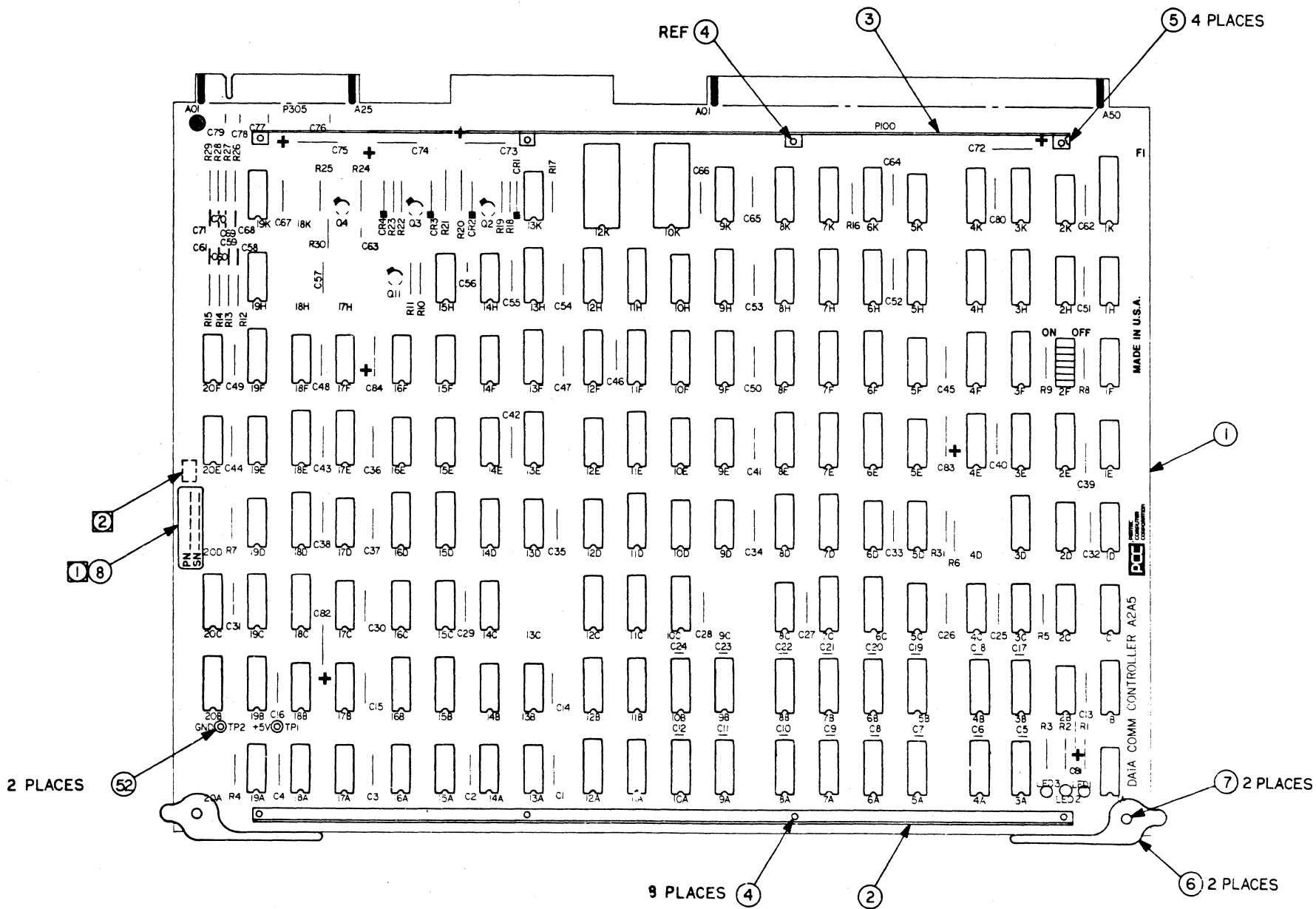
C

C

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3. REF PCBA WORKMANSHIP STANDARD 170450.

2 MARK APPROPRIATE REV. NUMBER WHERE SHOWN PER SPEC 100034 (RUBBER STAMP).

1 APPLY P/N-S/N IDENTIFICATION LABEL (ITEM 8) APPROX WHERE SHOWN.

NOTES: UNLESS OTHERWISE SPECIFIED.

<small>THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHOULD NOT BE DISCLOSED OR TRANSMITTED TO OTHERS WITHOUT THE WRITTEN PERMISSION OF THE COMPANY.</small>	<small>SHEET</small> 2
	<small>REV</small> 13
<small>DATE</small> 260960	<small>REV</small> 13
<small>DC NOT SOLID ONC</small>	<small>SHEET</small> 2

FORMAT 5

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REV 16

**REWORK INSTRUCTION** 3<sup>RD</sup> CONFIG ONLY

ON COMPONENT SIDE

CUT ETCH AT 16F-4 & 18E-14

ADD JUMPERS USING 30AWG BLUE KYNAR WIRE (P/N 510023-030)

FROM:	TO:
17D-8	16F-4
17D-9	19D-10
17D-10	19C-2
19D-11	13F-3
19A-1	19A-4
19A-4	19A-13
19A-2	19D-4
19A-3	19B-2
19A-5	18E-14

C

B

A

<small>THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF PERTEC COMPUTER CORPORATION.</small>	SIZE	DWG NO	REV
	D	260960	16
DO NOT SCALE DWG		SHEET 3	

PERTEC BUSINESS SYSTEMS

MATERIAL LIST

Title PCBA, DATA COMM CONTROLLER					Advance Approval	Sheet 4 OF 7	ML Dwg. No. 260960	Rev. 16
Item No.	Quantity Required				Part No.	Nomenclature or Description	Reference Designation	
				-000				
1				1	270827	PCB, DATA COMM CONTROLLER		
2				1	241723	STIFFENER, PCB		
3				1	241725	STIFFENER, PCB		
4				8	370081-171	RIVET		
5				4	241219	INSULATOR, PCB STIFFENER		
6				2	240871	INJECTOR, EJECTOR		
7				2	370181-504	ROLL PIN		
8				1	290231	LABEL, PCBA IDENTIFICATION		
9								
10				6	380601	I C, 74LS00	17A, 2B, 15C, 9D, 17D, 14E	
11				2	380050	I C, 7402	14C, 5E	
12				5	380021	I C, 7404	1A, 3C, 4C, 5C, 8C	
13				6	380431	I C, 74LS04	16C, 19D, 10E, 5F, 14B, 12D	
14				1	380096	I C, 7406	14H	
15				1	380051	I C, 7408	5K	
16				4	380498	I C, 74LS08	15A, 13B, 9E, 15H	
17				1	380520	I C, 74S10	1E	
18				4	380593	I C, 74LS10	17B, 1C, 15E, 14F	
19				3	380637	I C, 74LS11	16A, 18B, 6D	
20				1	380608	I C, 74LS20	18A	
21				1	380639	I C, 74LS21	14D	

PERTEC BUSINESS SYSTEMS

MATERIAL LIST

Title PCBA, DATA COMM CONTROLLER					Advance Approval	Sheet 5	ML Dwg. No. 260960	Rev. 16
Item No.	Quantity Required				Part No.	Nomenclature or Description	Reference Designation	
				-000				
22				1	380614	I C, 74LS32	13D	
23				1	380138	I C, 7437	1H	
24				2	380163	I C, 7438	2D, 17F	
25				2	380427	I C, 74LS86	17C, 2H	
26				1	380685	I C, 74S240	1K	
27				1	380290	I C, 74125	2K	
28				2	380707	I C, 74LS51	1F, 15F	
29				10	380595	I C, 74LS74	13A, 19A, 5D, 10D, 16E, 19E, 20E, 16F, 18F, 20F	
30				4	380644	I C, 74LS109	1B, 3D, 18D, 13E	
31				11	380588	I C, 74LS175	7D, 3E, 4E, 6E, 8E, 3F, 4F, 6F, 8F, 19F, 13H	
32				2	380180	I C, 74175	11F, 11H,	
33				4	380625	I C, DS8835	3H, 4H, 3K, 4K	
34				1	380645	I C, 74S133	5H	
35				3	380491	I C, 74LS157	7E, 7F, 9K	
36				1	380714	I C, 74LS158	8D	
37				4	380702	I C, DS8833	6H, 8H, 6K, 8K	
38				3	380586	I C, 74LS174	10C, 7H, 7K	
39				6	380619	I C, 74LS153	9F, 10F, 12F, 9H, 10H, 12H	
40				10	380751	I C, 74LS161	11B, 20B, 6C, 7C, 11C, 18C, 19C, 20C, 19B, 11A	
41				2	380030	I C, 7442	15B, 16B	
42				2	380182	I C, 74181	10K, 12K	

PERTEC BUSINESS SYSTEMS

MATERIAL LIST

Title PCBA, DATA COMM CONTROLLER					Advance Approval	Sheet 6	ML Dwg. No. 260960	Rev. 16
Item No.	Quantity Required				Part No.	Nomenclature or Description	Reference Designation	
				-000				
43				16	380713	I C, 2102A	3A THRU 10A, 3B THRU 10B	
44				2	380430	I C, 7489	11D, 11E	
45				2	380716	I C, 74LS151	17E, 18E	
46				3	380642	I C, 74LS42	15D, 16D, 13F	
47				2	380712	I C, MC1489	19H, 19K	
48				1	380715	I C MC1488	13K	
49				1	480130-007	I C, SWITCH PAK	2F	
50				1	470070-681	I C, RESISTOR PAK, 680 OHMS	12E	
51				1	380502-000	I C, 74S08	14A	
52				2	320004-042	TERMINAL, TURRET	TP1, TP2	
53				3	520057	LED, MV5025	LED 1, LED 2, LED 3	
54								
55				2	500025	TRANSISTOR, 2N2907	Q1, Q2	
56				2	500070	TRANSISTOR, 2N2222	Q3, Q4	
57								
58								
59				4	330000	DIODE, 1N4446	CR1 THRU CR4	
60				16	300004-103	CAPACITOR, .01UF, 50V, ±20%	C5 THRU C12, C17 THRU C24	
61				46	300275-029	CAPACITOR, .047UF, 50V, ±20%	C1 THRU C4, C13 THRU C16, C25 THRU C55, C57, C62, C64 THRU C67, C80	
62				1	300000-102	CAPACITOR, 1,000PF, 1KV, 20%	C56	
63				1	300004-104	CAPACITOR, .1UF, 50V, 20%	C63	
64				8	300009-103	CAPACITOR, .01UF, 100V, 20%	C58, C59, C60, C61, C68, C69, C70, C71	

PERTEC BUSINESS SYSTEMS

MATERIAL LIST

Title PCBA, DATA COMM CONTROLLER					Advance Approval	Sheet 7	ML Dwg. No. 260960	Rev. 16
Item No.	Quantity Required				Part No.	Nomenclature or Description	Reference Designation	
				-000				
65				6	300005-333	CAPACITOR, 33UF, 10V, 10%	C72, C75, C81 THRU C84	
66				2	300175-682	CAPACITOR, 6.8UF, 35V, 10%	C73, C74	
67				4	300000-331	CAPACITOR, 330PF, 1KV, 20%	C76 THRU C79	
68				3	470000-151	RESISTOR, 150 OHMS, 1/4W, 10%	R1, R2, R3	
69				1	470000-221	RESISTOR, 220 OHMS, 1/4W, 10%	R24	
70				1	470000-391	RESISTOR, 390 OHMS, 1/4W, 10%	R17	
71				14	470000-102	RESISTOR, 1K, 1/4W, 10%	R4 THRU R11, R16, R18, R19, R22, R23, R31	
72				2	470000-104	RESISTOR, 100K, 1/4W, 10%	R26, R27	
73				6	470000-183	RESISTOR, 18K, 1/4W, 10%	R12 THRU R15, R28, R29	
74				1	470024-150	RESISTOR, 15 OHMS, 1/4W, 5%	R25	
75				1	470041-470	RESISTOR, 47 OHMS, 1/2W, 5%	R30	
76				2	470002-222	RESISTOR, 2.2K, 1W, 10%	R20, R21	
77								
78				1	380448	I C, 74109	2E	
79				2	380017	I C, 7474	2C, 1D	
80				3	380185	I C, 74157	12A, 12B, 12C	
81				32	510009-018	WIRE, SOLID BARE, (1/2" LONG)		
82				12	510111-912	WIRE, STRANDED, (9 1/4" LONG)		

LEGEND FOR TYPES OF CHANGES:

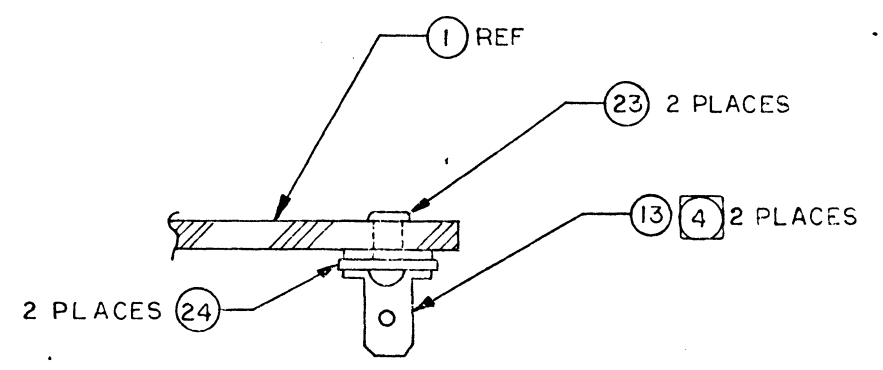
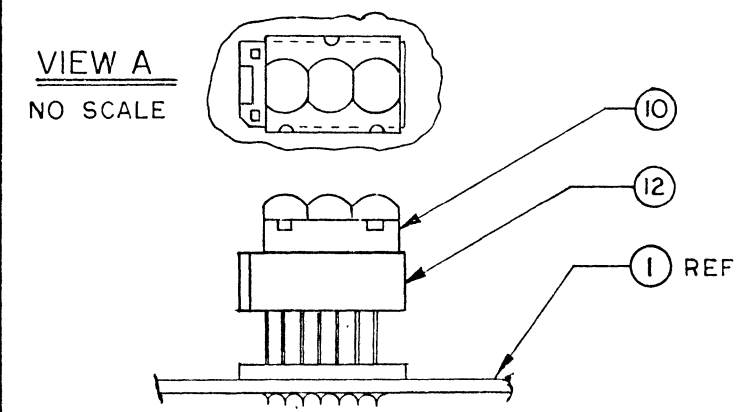
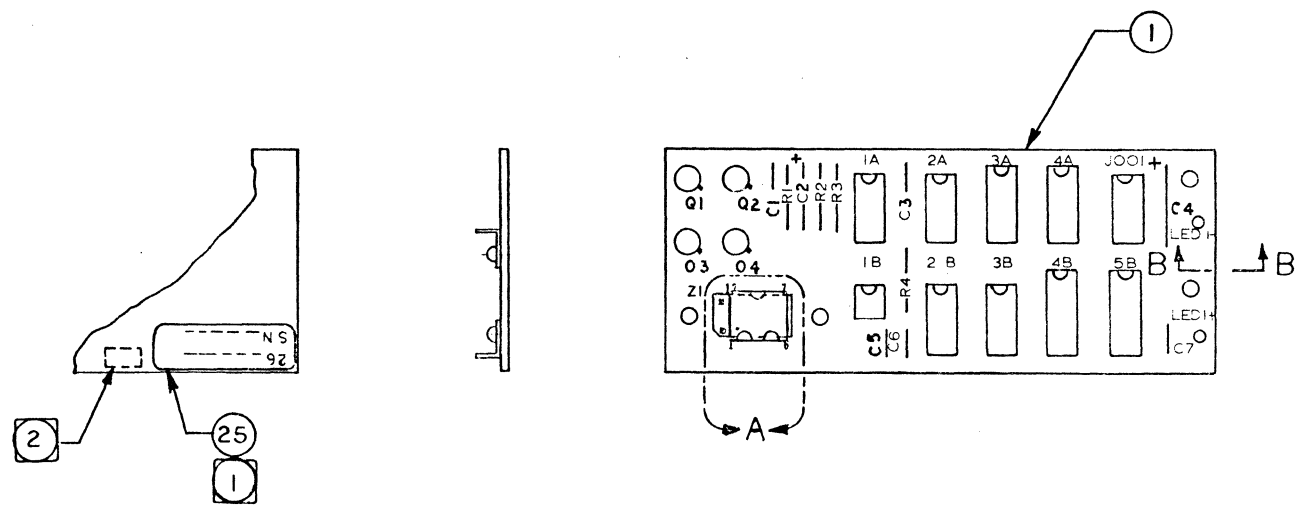
- A = MANDATORY
- B = PHASE IN
- C = RECORD
- X = DOCUMENT REVISION LEVEL AT THE TIME CONFIGURATION IS ESTABLISHED

CONFIGURATION DESIGNATOR	CONFIG CONSISTS OF DRAWING NOS	CONFIGURATIONS AFFECTED BY REV LEVELS (SEE LEGEND FOR CODING)																			
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
1	PCBA 260992			X	C	A	A														
	PCB 270637		X	A	C																
	E-M 150451		X																		
	SM 140733		X																		
	SS 140734		X																		
	SCHEM 120940				X	C															
2	PCBA 260992									X											
	PCB 270777		X																		
	EM 150584	X																			
	SM 141054	X																			
	SS 141053	X																			
	SCHEM 120940					X															

SEE SHEET 2 FOR NOTES.

07	INCORP DCO 07836	BW	EB	4/13/76					
06	INCORP DCO 08017	TR	EB	4/2/76					
05	INCORP DCO 06703	MP	TR	5/8/76					
04	SCHEM REL W/CHNGE PER DCO 06467								
03	INCORP DCO 03793	DART		7/1/76					
02	INCORP DCO 03493	DART		4/26/76					
01	RELEASE PER DCO 147-75	DART							
SYM	DESCRIPTION	DRFTG	APPVD	DATE	NEXT ASSY	QTY	MODEL	QTY	
REVISIONS					APPLICATION				

DRAW	DART	4-2-76	PERTEC BUSINESS SYSTEMS DIVISION		
CHECK	JEM	4-8-76	TITLE		
APPR	RES	4-8-76	PCBA, DIAGNOSTIC DSPL		
RELEASE	G. BRINK	4-8-76	CODE IDENT. NO	SIZE	DWG NO
THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR TRANSMITTED TO OTHER DOCUMENTS OR DISCLOSED TO OTHERS OR USED FOR MANUFACTURING OR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN PERMISSION OF PERTEC BUSINESS SYSTEMS			10	C	260992
			SCALE	DO NOT SCALE DWG	REV
			1:1		07
			SHEET 1 OF 4		



SECTION B-B  
NO SCALE

- ④ SOLDER ITEM 13 TO ITEM 1.
- 3. REF PCBA WORKMANSHIP STANDARD 170450.
- ② MARK APPROPRIATE REV. NUMBER WHERE SHOWN PER SPEC 100034 (RUBBER STAMP).
- ① APPLY P/N-S/N IDENTIFICATION LABEL (ITEM 25) APPROX WHERE SHOWN.

NOTES: UNLESS OTHERWISE SPECIFIED.

SIZE	DWG NO	REV
<b>C</b>	260992	07
DO NOT SCALE DWG		SHEET 2



Title PCBA, DIAGNOSTIC DSPL						Advance Approval	Sheet 3 of 4	ML Dwg. No. 260992	Rev. 07
Item No.	Quantity Required					Part No.	Nomenclature or Description	Reference Designation	
					-000				
1					1	270777	PCB, DIAGNOSTIC DSPL		
2					2	380619	IC,74LS153	4A, 4B	
3					1	380705	IC,74LS48	3A	
4					1	380653	IC,74376	5B	
5					1	380601	IC,74LS00	3B	
6					1	380060	IC,7417	2A	
7					1	380245	IC,(NE 555V)	1B	
8					1	380638	IC,74LS14	2B	
9					1	470070-331	RESISTOR, NETWORK (330 OHM)	1A	
10					1	530097	DISPLAY, 3 DIGIT	Z1	
11					4	500025	TRANSISTOR (2N2907)	Q1,Q2,Q3,Q4	
12					1	320232-003	SOCKET, 14 PIN IC	FOR Z1	
13					2	320260	TERMINAL (FAST ON)	LEDI+, LEDI-	
14									
15					2	470000-471	RESISTOR, 470 OHMS, 1/4W, 10%	R1, R4,	
16					1	470000-473	RESISTOR, 47K OHMS, 1/4W, 10%	R3,	
17					1	470000-334	RESISTOR, 330K OHMS, 1/4W, 10%	R2,	
18					5	300206-503	CAPACITOR, CERAMIC, .05 $\mu$ f, 10V +80% -20%	C1, C3, C5, C6, C7	
19					1	300005-333	CAPACITOR, TANTALUM, 33 $\mu$ f, 10V, 10%	C4	

Title PCBA, DIAGNOSTIC DISPL						Advance Approval	Sheet 4 of 4	ML Dwg. No. 260992	Rev. 07
Item No.	Quantity Required					Part No.	Nomenclature or Description	Reference Designation	
					-000				
20					1	300005-152	CAPACITOR, TANTALUM, 1.5 $\mu$ f, 10V, 10%	C2	
21									
22					1	320339-002	SOCKET, 14 PIN IC	J001	
23					2	370081-156	RIVET		
24					2	370002-100	WASHER, F LAT		
25					1	290231	LABEL, PCBA IDENTIFICATION		

LEGEND FOR TYPES OF CHANGES:  
 A = MANDATORY  
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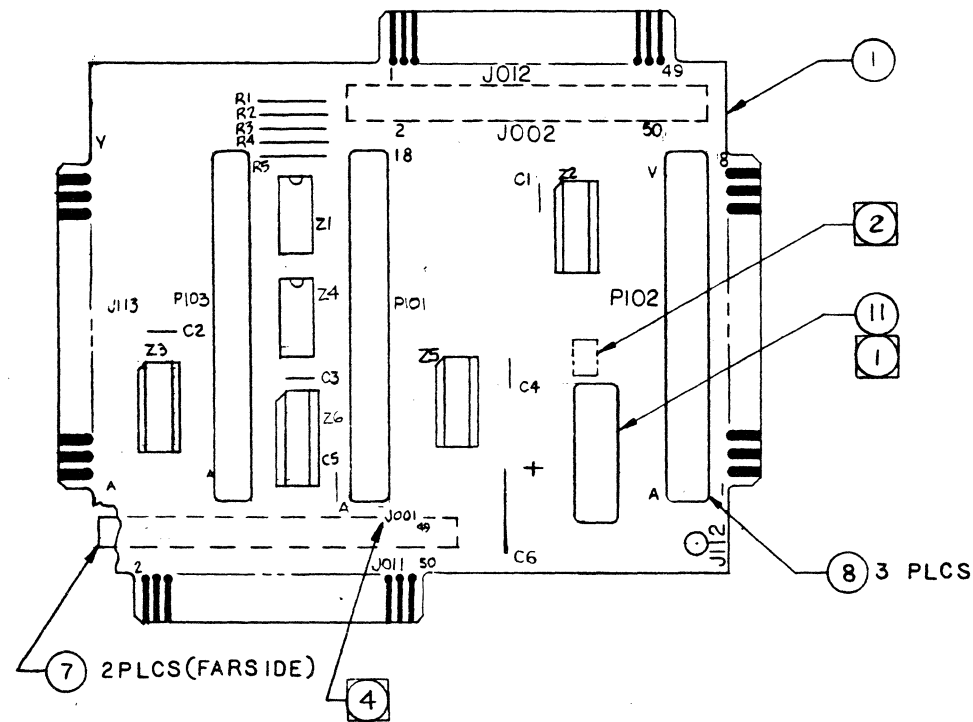
CONFIGURATION DESIGNATOR	CONFIG. CONSISTS OF DRAWING NO'S	CONFIGURATIONS AFFECTED BY REV LEVELS (SEE LEGEND FOR CODING)																			
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
1	PCBA 261070		X	C	C	A	A	B													
	PCB 270704	X	C	C																	
	EM 150512	X																			
	SM 140855	X																			
	SCHEM 121041		X	C	C																

REVISIONS				
SYM	DESCRIPTION	DRAFT	APPROVED	DATE
01	RELEASE PER DRO 172-77	PS.	G.B.	3/1/77
02	REVISED AND REDRAWN	BNA	XK	3/13/77
03	INCORP DCO 05661	DW	XK	6/22/77
04	CODE 06 REL. WITHOUT CHANGES. REL. PER DRO 545-77	DART	XK	7/13/77
05	CODE 10 REL W/D CHANGE PER DCO 06467	PS.	EB	11/11/77
06	INCORP DCO 06970	PS.	EB	11/11/77
07	INCORP DCO 08017	PS.	EB	12/1/77
08	INCORP DCO 10569	PS.	EB	1/8/80

SEE SHEET 2 FOR NOTES  
 FOR REWORK INSTRUCTIONS SEE SHEET 3

DRAWN	WARD	2/4/77	<b>PERTEC BUSINESS SYSTEMS</b>		
CHECK	DW	3/4/77	TITLE POBA MAGNETIC TAPE INTERFACE		
APPR	K. K.	3/9/77	CODE IDENT NO	SIZE	DWG NO
RELEASE	S. BRINK	3/9/77	DC CODE	C	201070
NEXT ASSY			10		REV 08
APPLICATION			SCALE 1/1	DO NOT SCALE DWG	SHEET OF 4

REVISIONS				
SYM	DESCRIPTION	DRFTG	APPROVED	DATE
	RELEASE PER DRO			



**NOTE : UNLESS OTHERWISE SPECIFIED**

- 1 APPLY PCBA IDENTIFICATION LABEL (ITEM 11) APPROXIMATELY WHERE SHOWN.
- 2 MARK APPROPRIATE REVISION NUMBER WHERE SHOWN PER SPECIFICATION 100034 (RUBBER STAMP).
- 3. REFERENCE PCBA WORKMANSHIP STANDARD 170450.
- 4 REMOVE PIN 44 FROM J001 (ITEM #7) PRIOR TO ASSEMBLY.

DRAWN				<b>PERC BUSINESS SYSTEMS</b> <small>a division of Permac Computer Corporation</small>			
CHECK				TITLE			
APPR				CODE IDENT. NO.			
RELEASE				SIZE	DWG NO.	REV	
THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR TRANSMITTED TO OTHER DOCUMENTS OR DISCLOSED TO OTHERS OR USED FOR MANUFACTURING OR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN PERMISSION OF PERMAC BUSINESS SYSTEMS				<b>C</b>	261070	08	
NEXT ASSY	QTY	MODEL	QTY	SCALE	DO NOT SCALE DWG	SHEET 2 OF	
APPLICATION							

REV 06  
REWORK INSTRUCTIONS:

1. REMOVE PIN 44 FROM J001 (ITEM 7).

REVISIONS				
SYM	DESCRIPTION	DRFTG	APPROVED	DATE
	RELEASE PER DRO			

NOTE : UNLESS OTHERWISE SPECIFIED

DRAWN			<b>DCS BUSINESS SYSTEMS</b> <small>A Division of Peritek Corporation</small>		
CHECK					
APPR			TITLE		
RELEASE			CODE IDENT NO		
THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR DISCLOSED TO OTHER DOCUMENTS OR DISCLOSED TO OTHERS OR USED FOR MANUFACTURE OR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN PERMISSION OF PERTEK BUSINESS SYSTEMS			SIZE	DWG NO	REV
			DC CODE	C	261070
NEXT ASSY	QTY	MODEL	QTY	SCALE	DO NOT SCALE DWG
APPLICATION				SHEET	3 OF

Title						Advance Approval		Sheet 4 OF 4		ML Dwg. No. 261070		Rev. 08	
Item No.	Quantity Required					Part No.	Nomenclature or Description	Reference Designation					
					-000								
1					1	270704	PCB, MAGNETIC TAPE INTERFACE						
2													
3					4	320339-003	SOCKET, 16 PIN IC	Z2, Z3, Z5, Z6					
4													
5					1	48030-008	SWITCH, DIP	Z1					
6					1	380597	I. C. , (74367)	Z4					
7					2	320292-001	CONNECTOR, SOLDER TAIL HEADER	J001, J002					
8					3	320301	CONNECTOR, PCB	P101, P102, P103					
9					5	470000-472	RES, 4.7K, 1/4W, 5%	R1 THRU R5					
10					1	300005-333	CAP, 33UF, 10V, 10%	C6					
11					1	290231	LABEL, PCBA IDENTIFICATION						
12					5	300206-503	CAP, .05UF, 10V, +80% -20%	C1 THRU C5					

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1

**LEGEND FOR TYPES OF CHANGES:**  
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 C = RECORD  
 X = DOCUMENT REVISION LEVEL AT THE TIME CONFIGURATION IS ESTABLISHED

CONFIGURATION DESIGNATOR	CONFIG CONSISTS OF DRAWING NOS	CONFIGURATIONS AFFECTED BY REV LEVELS (SEE LEGEND FOR CODING)																			
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
01	ASSY 261098						X	A	A	B	E	C	E	B	C	B					
	PCB 270717				X	C															
	EM 150526				X																
	SM 140894				X																
	SS 140895				X																
01	SCHEM 121082				X	C	C	C													
02	PCBA 261098																X	B	C		
	PCB 270800	X																			
	EM 150607	X																			
	SM 141109	X																			
	SS 141110	X																			
02	SCHEM 121082									X											

CONSTRUCTION	PERTEC P/N
A	380825-003
B	380825-005
C	380825-006
D	380825-001
E	380825-002
G	380825-007
H	380825-008

REVISIONS			
SYM	DESCRIPTION	DRFTG	APPROVED DATE
01	RELEASE PER DRO 446-77	NK	EB 5-27-77
02	INCRP DCO 05886	WVPP	EB 7-8-77
03	INCRP DCO 05573	JM	EB 8/2/77
04	INCRP DCO 05828	FM	EB 8/2/77
05	CODE 06 REL W/CHANGES PER DCO 06671	FM	EB 8/2/77
06	INCRP DCO 06673	FM	EB 8/2/77
07	INCRP DCO 07044	FM	EB 8/2/77
08	INCRP DCO 07479	FM	EB 8/2/77
09	INCRP DCO 07644	FM	EB 8/2/77
10	INCRP DCO 07797	FM	EB 8/2/77
11	INCRP DCO 08220	FM	EB 8/2/77
12	INCRP DCO 08221	FM	EB 8/2/77
13	CODE 10 REL W/ CHANGES PER DCO 08222	BN	EB 1/5/79
14	INCRP DCO 08597	H	EB 1/5/79
15	INCRP DCO 08630	BN	EB 1/26/79
16	INCRP DCO 08934	BN	EB 8/2/79
17	INCRP DCO 09873	MV	EB 12/14/77

**NOTE: UNLESS OTHERWISE SPECIFIED**

- APPLY PCBA IDENTIFICATION LABEL (ITEM 8) APPROXIMATELY WHERE SHOWN.
- MARK APPROPRIATE REV NUMBER WHERE SHOWN PER SPEC 100034 (RUBBER STAMP).
- REFERENCE PCBA WORKMANSHIP STANDARD 170450.
- ON MEMORY CHIPS ONLY PA, PB, PC AND PD ARE PARITY, ALL OTHERS DENOTE DATA BIT.
- DO NOT INSTALL THE FOLLOWING COMPONENTS C27, C28, C30, C31, C33, C34, C36, C37, C39, C40, C42, C69, C70, C72, C73, C75, C78, C79, C81, C82, C84, C111, C112, C114, C115, C117, C118, C120, C123, C124, C126, C153, C154, C155, C157, C159, C160, C162, C163, C165, C166, C168, M1, R84, C121.
- SEE SHEET 1 CONSTRUCTION BLOCK FOR COMPONENT PART NO.; CAUTION: CONSTRUCTION COMPONENTS FROM TABLE CANNOT BE INTERMIXED.

DRAWN	KURNICK	5-9-77	<b>BUSINESS SYSTEMS</b>	
CHECK		7-2-77		
APPR	PATRICK	5-27-77	TITLE	
RELEASE	BRINK	5-27-77	PCBA, 128K BYTE MEMORY	
THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR TRANSFERRED TO OTHER DOCUMENTS OR DISCLOSED TO OTHERS OR USED FOR MANUFACTURING OR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN PERMISSION OF PERTEC BUSINESS SYSTEMS			CODE IDENT. NO.	SIZE
APPLICATION			D	DWG NO
NEXT ASSY QTY MODEL QTY			261098	REV
SCALE			DO NOT SCALE DWG	17
SHEET 1 OF 5				

8

7

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3

2

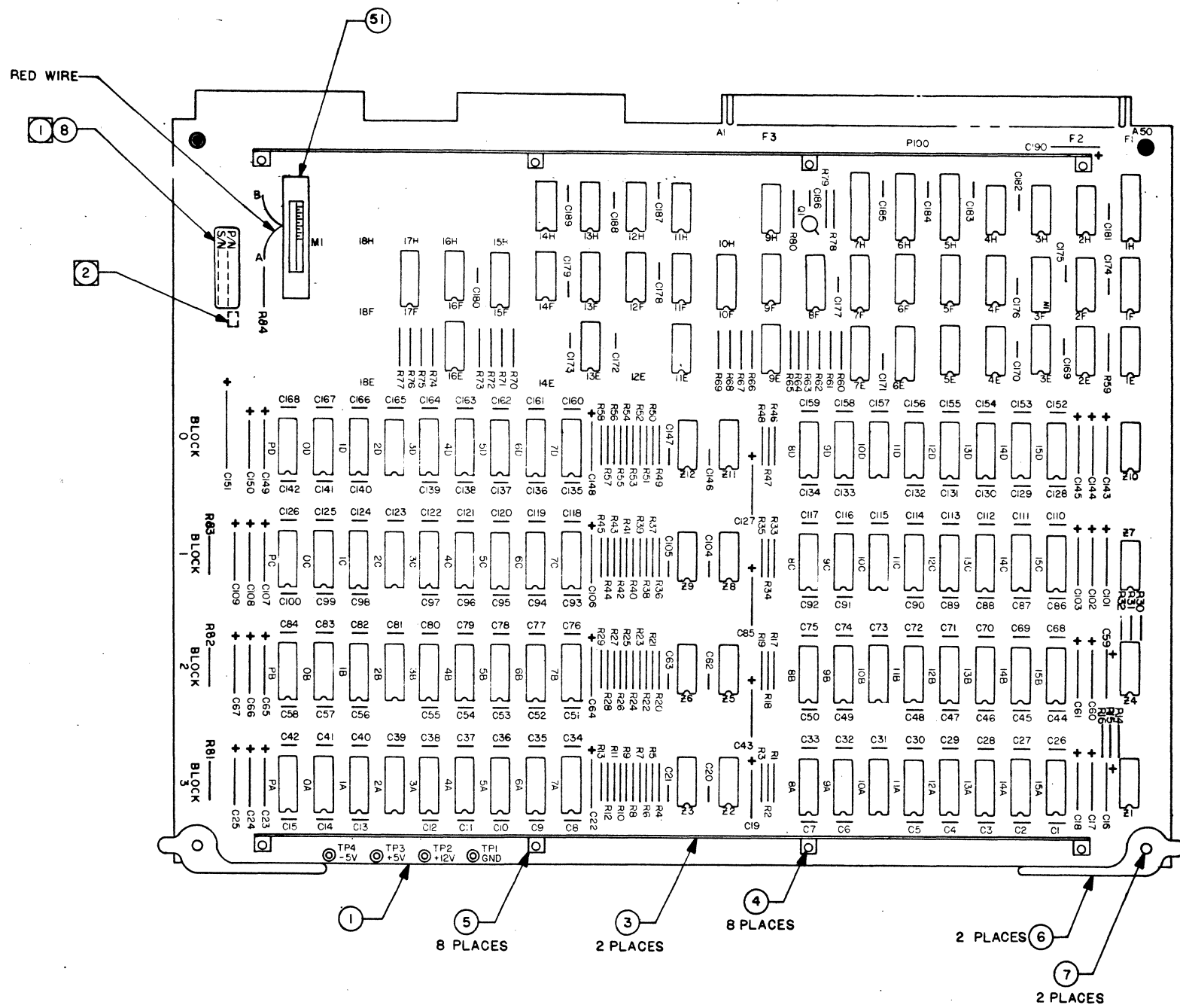
1

D

C

B

A



SIZE	DWG NO.	REV
D	261098	17
DO NOT SCALE DWG		SHEET 2





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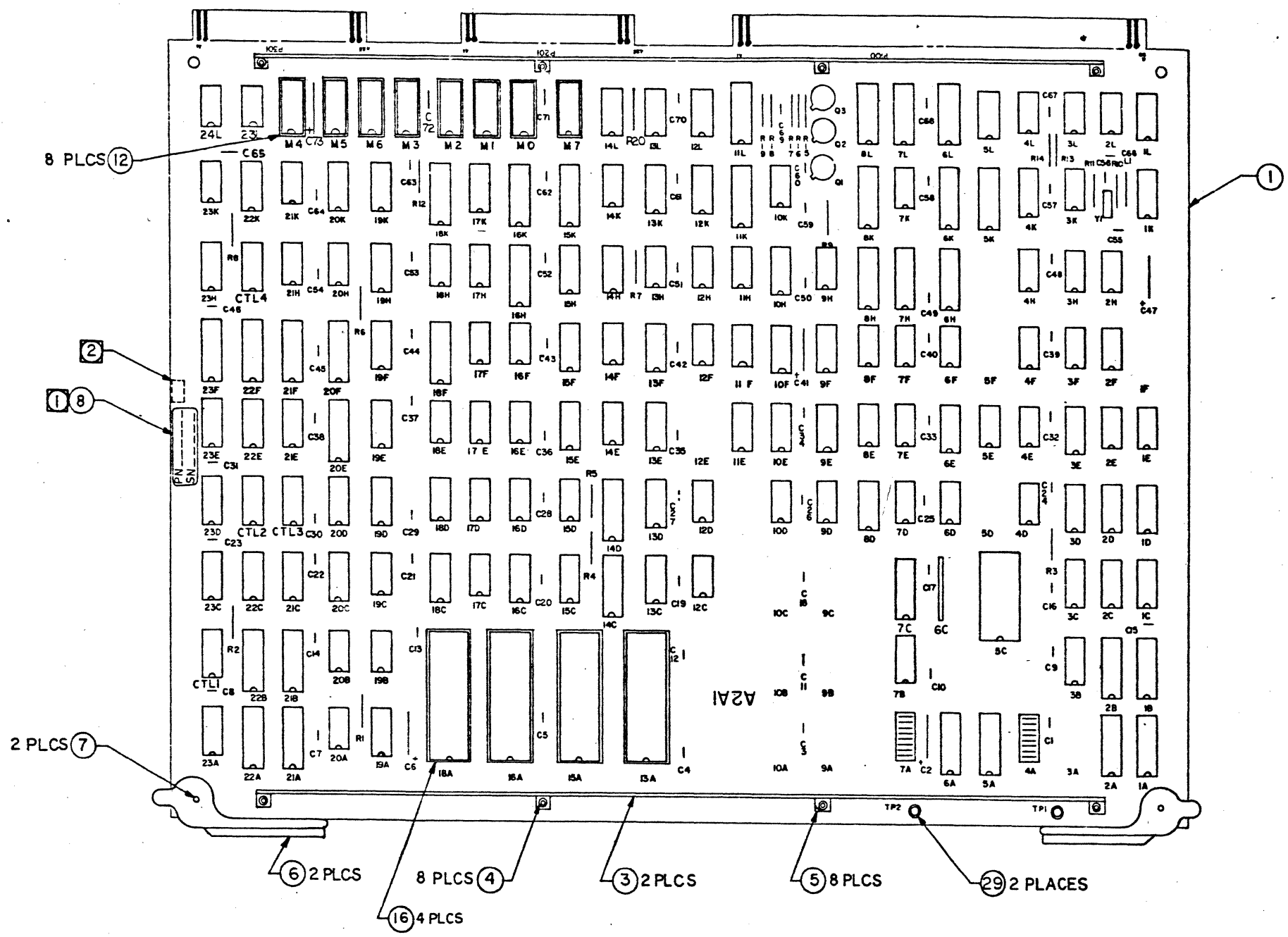
CONFIGURATION DESIGNATOR	CONFIG. CONSISTS OF DRAWING NO'S	CONFIGURATIONS AFFECTED BY REV LEVELS (SEE LEGEND FOR CODING)																			
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
1	PCB- 261114							X	A	A	A	A	C								
	POB 270765	X	C	C																	
	EM 150573	X	C																		
	SM 141010	X	C																		
	SS 141011	X	C																		
SCHEM 121102								X	C	C	C	C									
2	PCBA 261114													X	B	B	A	A			
	PCB 270778	X																			
	E M 150586	X																			
	S M 141061	X																			
	S S 141062	X																			
SCHEM 121102											X	C	C	C							

SYM	DESCR	APPROVED	DATE
01	RELEASE PER DRO 661-77	EE	8-25-77
02	INCORP DCO 06685	PP	T.S. EB 12-12-77
03	REVISED PICTORIAL	PP	EE 12/17/77
04	INCORP DCO 02923	PP	EE 12/17/77
05	INCORP DCO 07132	PP	EE 12/17/77
06	INCORP DCO 07406	PP	EE 12/17/77
07	INCORP DCO 07410	PP	EE 12/17/77
08	CODE 06 RELEASE W/O CHANGES PER DRO 410-75	PP	EE 12/17/77
09	INCORP DCO 07523	PP	EE 12/17/77
10	INCORP DCO 07679	PP	EE 12/17/77
11	INCORP DCO 08018	PP	EE 12/17/77
12	INCORP DCO 08359	PP	EE 12/17/77
13	CODE 10 REL W/O CHANGES PER DCO 08423	PP	EE 12/17/77
14	INCORP DCO 08623	PP	EE 12/17/77
15	INCORP DCO 09687	PP	EE 12/17/77
16	INCORP DCO 10567	PP	EE 12/17/77
17	INCORP DCO 10569	PP	EE 12/17/77
18	INCORP DCO 10616	PP	EE 12/17/77
19	INCORP DCO 10994	PP	EE 12/17/77

- NOTE: UNLESS OTHERWISE SPECIFIED
- APPLY PCBA IDENTIFICATION LABEL (ITEM 8) APPROX WHERE SHOWN.
  - MARK APPROPRIATE REV NUMBER WHERE SHOWN PER SPEC 100034 RUBBER STAMP.
  - REFERENCE PCBA WORKMANSHIP STANDARD 170450.

FOR REWORK INSTRUCTIONS, SEE SHEET 3

DRAWN		PADILLA 8-25-77		DISTRIBUTION CLASS B	
CHECK		GRAFA 8-26-77		BUSINESS SYSTEMS	
APPR		T. STEPHENS 8-26-77		TITLE	
RELEASE		G. BRINK 8-25-77		PCBA, XPU2	
NEXT ASSY		211507		CCODE IDENT NO	
APPLICATION		UTP		SIZE	
		XL20		DWG NO	
		XL20		D	
		MUST		REV	
		UTP		261114	
				19	
				SCALE 1/1	
				DO NOT SCALE DWG	
				SHEET 1 OF 9	



D  
C  
B  
A

SIZE	DWG NO	REV
D	261114	19
DO NOT SCALE DWG		SHEET 2

8

7

6

5

4

3

REVISION 15

REWORK INSTRUCTIONS ALL CONFIGURATIONS

CUT ETCH: 12F-PIN 12, COMPONENT SIDE  
(BETWEEN 12F-PIN 12 & 13F-PIN 4)  
12F-PIN 13, SOLDER SIDE  
(END EXITING BY 12F-PIN 14)

ADD THE FOLLOWING JUMPERS USING BLUE KYNAR WIRE, 30 AWG, P/N 510023-030

<u>FROM:</u>	<u>TO:</u>
10D-PIN 8	13F-PIN 4
10D-PIN 9	12F-PIN 1
10D-PIN 8	19D-PIN 9

REV 16

REWORK INSTRUCTIONS CONFIG 1#2

IF REWORK INSTRUCTIONS PER DCO 09887 (REV 15) HAVE NOT BEEN INCORPORATED, NO REWORK IS REQUIRED.

ON COMPONENT SIDE

<u>REMOVE JUMPERS FROM:</u>	<u>TO:</u>
10D-8	13F-4
10D-9	12F-1
10D-8	19D-9

ADD JUMPERS USING 30AWG BLUE KYNAR WIRE (P/N 510023-030) AS FOLLOWS:

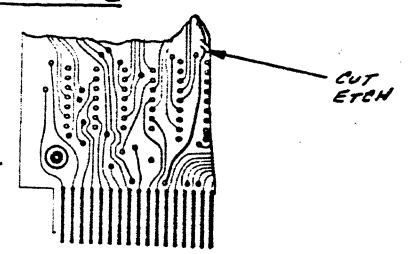
<u>FROM:</u>	<u>TO:</u>
12F-13	19D-9
13F-4	12F-12

REV 18

REWORK INSTRUCTIONS CONFIG 2

ON SOLDER SIDE

CUT ETCH WHERE SHOWN



BUSINESS SYSTEMS

MATERIAL LIST

Sheet 4 of 9 ML Des. No. 261114 Rev. 19

Item No.	Quantity Required				Part No.	Nomenclature or Description	Reference Designation
				-000			
1					270778	PCB, XPU2	
2							
3					241725	STIFFENER, PCB	
4					370081-171	RIVET	
5					241219	INSULATOR, PCB STIFFENER	
6					240871	EJECTOR	
7					370181-504	ROLL PIN	
8					290231	LABEL, PCBA IDENTIFICATION	
9					500070	TRANSISTOR, 2N2222	Q1, Q2, Q3
10					530091	CRYSTAL, 20MHZ	Y1
11					490067-001	INDUCTOR, 1.8UH	L1
12					320339-004	SOCKET, 18 PIN DIP	(M0 thru M7)
13							
14							
15							
16					320339-009	SOCKET, 40 PIN DIP	13A, 15A, 16A, 18A
17					300003-220	CAP, 22PF, ±5%, 500V	C59, C56
18					300065-104	CAP, 0.1UF, ±20%, 12V	C60
19					300005-333	CAP, 33UF, ±10%, 10V	C2, C6, C41, C47, C73
20					300206-503	CAP, 0.05UF, +80% -20%, 10V	C1, C3, C4, C5, C7 THRU C40, C42 THRU C46, C48 THRU C54, C57 THRU C59, C61 THRU C72
21					470000-102	RES, 1K, ±10%, 1/4W	R1, R3, R4, R5, R6, R8, R12, R13, R14

BUSINESS SYSTEMS

MATERIAL LIST

Sheet 5 of ML Des. No. 261114 Rev. 19

Item No.	Quantity Required				Part No.	Nomenclature or Description	Reference Designation
				-000			
22					470000-331	RES, 330 OHMS, ±10%, 1/4W	R2
23					470024-150	RES, 15 OHMS, ±5%, 1/4W	R17
24					470024-221	RES, 220 OHMS, ±5%, 1/4W	R15, R16, R20
25					470024-202	RES, 2K, ±5%, 1/4W	R9
26					470041-470	RES, 47 OHMS, ±5%, 1/2W	R19
27					470070-102	NETWORK, RESISTOR, 1K	4H, 7K
28					480150-008	SWITCH, DIP	4A, 7A
29					320004-042	TERMINAL, TURRET	TP1, TP2
30					380601	IC, 74LS00	12C, 9D, 17E, 8F, 11F, 20H, 14K
31					380447	IC, 74S00	16D, 2E, 4E, 3K
32					380591	IC, 74LS02	19C, 3F, 18H
33					380519	IC, 74S02	3H, 21H
34					380431	IC, 74LS04	4D, 17F
35					380497	IC, 74S04	10D, 23L, 24L
36					380498	IC, 74LS08	12D, 18E, 6F
37					380502	IC, 74S08	6D, 16F
38					380593	IC, 74LS10	16E
39					380520	IC, 74S10	8E
40					380637	IC, 74LS11	18D, 13H, 4L
41					380521	IC, 74S11	7D, 23K
42					380638	IC, 74LS14	9H, 10K
43					380639	IC, 74LS21	20A

BUSINESS SYSTEMS

MATERIAL LIST

Sheet 6 of ML Des. No. 261114 Rev. 19

Item No.	Quantity Required				Part No.	Nomenclature or Description	Reference Designation
				-000			
44					380305	IC, 7425	20B
45					380594	IC, 74LS30	1E
46					380614	IC, 74LS32	19B, 11H
47					380499	IC, 74S32	17D, 7E
48					380640	IC, 74LS37	12F
49					380641	IC, 74S37	2L
50					380843	IC, 74LS54	14F
51					380844	IC, 74S64	2F, 17H, 21K
52					380595	IC, 74LS74	15D, 2H, 12H
53					380524	IC, 74S74	14E, 4F
54					380726	IC, 74S40	7F
55					380547	IC, 74S86	17C
56					380606	IC, 74S132	5E, 3L
57					380611	IC, 74LS138	15F, 19F
58					380529	IC, 74S138	17K
59					380582	IC, 74S139	15H
60					380858	IC, 74LS148	12K, 13K
61					380716	IC, 74LS151	15C, 20C
62					380548	IC, 74S151	20K
63					380517	IC, 74S153	18C, 23D, 23E
64					380491	IC, 74LS157	21C, 22C, 2D, 15E
65					380525	IC, 74S157	1C, 23C, 1D, 20D, 3E, 21E, 22E
66					380714	IC, 74LS158	3D, 19E

BUSINESS SYSTEMS

MATERIAL LIST

Sheet 7 of ML Des. No. 261114 Rev. 19

Item No.	Quantity Required				Part No.	Nomenclature or Description	Reference Designation
				-000			
67					380750	IC, 74LS163	9E, 10E, 22K
68					380526	IC, 74S163	10F
69					380586	IC, 74LS174	13L
70					380650	IC, 74S174	23H
71					380588	IC, 74LS175	14R, 14L
72					380532	IC, 74S175	4K
73					380516	IC, 74S182	16C
74					380613	IC, 74S189	2C, 3C
75					380846	IC, 74LS240	7C, 6H, 8H, 6L, 8L
76					380651	IC, 74S241	14C, 14D
77					380809	IC, 74LS244	2A, 5A, 6A, 22A, 2B, 21B, 20E, 18F, 5K, 15K, 11L
78					380708	IC, 74S251	13C
79					380512	IC, 74LS253	13D
80					380890	IC, ROM, XPU2 AM XLAT	CTL1
81					380892	IC, ROM, XPU2 GOP GROUP	CTL2
82					380901	IC, ROM, XPU2 LS GOP ADS	CTL3
83					380891	IC, ROM, XPU2 2911 CONTROL	CTL4
84					380847	IC, 74LS367	38, 11E, 12L
85					380596	IC, 74368	9F, 8D
86					380848	IC, 74LS368	1K, 1L, 5L

BUSINESS SYSTEMS

MATERIAL LIST

Sheet 8 of ML Des. No. 261114 Rev. 19

Item No.	Quantity Required				Part No.	Nomenclature or Description	Reference Designation
				-000			
87					380849	IC, 74LS373	6K, 8K
88					380653	IC, 74376	10H
89					380857	IC, 74LS377	1A, 21A, 1B, 22B, 20F, 7H, 16H, 11K, 16K, 18K, 7L
90					380850	IC, 74LS399	23A, 19K
91							
92					380851	IC, AM2901A	13A, 15A, 16A, 18A
93					380860	IC, AM2911	21F, 22F, 23F
94					380627	IC, DM8556	19A, 13E, 13F
95					380656	IC, DM8613	19D, 6E, 19H
96					380852	IC, 82S09	5C
97					380643	IC, 74LS75	7B
98					470000-391	RES, 390 OHMS, ±10%, 1/4W	R7, R18
99					470024-471	RES, 470 OHMS, ±5%, 1/4W	R10, R11
100					470112-006	NETWORK, RESISTOR, 820 OHMS	6C
101					380898	IC, ROM, XPU2 MICROCODE, BITS 0-3	M0
102					380900	IC, ROM, XPU2 MICROCODE, BITS 4-7	M1
103					380899	IC, ROM, XPU2 MICROCODE, BITS 8-11	M2
104					380897	IC, ROM, XPU2 MICROCODE, BITS 12-15	M3
105					380896	IC, ROM, XPU2 MICROCODE, BITS 16-19	M4

BUSINESS SYSTEMS

MATERIAL LIST

Sheet 9 of ML Des. No. 261114 Rev. 19

Item No.	Quantity Required				Part No.	Nomenclature or Description	Reference Designation
				-000			
106					380895	IC, ROM, XPU2 MICROCODE, BITS 20-23	M5
107					380894	IC, ROM, XPU2 MICROCODE, BITS 24-27	M6
108					380893	IC, ROM, XPU2 MICROCODE, BITS 28-31	M7

REVISIONS			
SYM	DESCRIPTION	DRAWN / APPROVED	DATE
01	RELEASE PER DCO 000001	EB	1/2/77
02	CODE 10 REL W/O CHANGES PER DCO 000002	EB	4/2/77
03	INCO RP DCO NO. C636B	EB	8/15/77
04	INCO RP DCO NO. C801B	EB	10/2/77
05	INCO RP DCO C625E	TA	3/1/79
06	INCO RP DCO C3022	TA	4/8/79
07	CODE 10 REL W/O CHANGES PER DCO 10480	F.C.	4/12/80
08	INCO RP DCO 1127E	EP	1/2/80

**LEGEND FOR TYPES OF CHANGES:**  
 A = MANDATORY  
 B = PHASE IN  
 C = RECORD  
 X = DOCUMENT REVISION LEVEL AT THE TIME CONFIGURATION IS ESTABLISHED

CONFIGURATION DESIGNATOR	CONFIG. CONSISTS OF DRAWING NO'S	CONFIGURATIONS AFFECTED BY REV LEVELS (SEE LEGEND FOR CODING)																			
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
I	PCBA 281124	X	C	A	A	A	A	C	A												
	PCB 270746	X																			
	EM 150553	X																			
	SM 140959	X																			
	SCHEM 121116	X	C	C	C	C	C														

**NOTE: UNLESS OTHERWISE SPECIFIED**

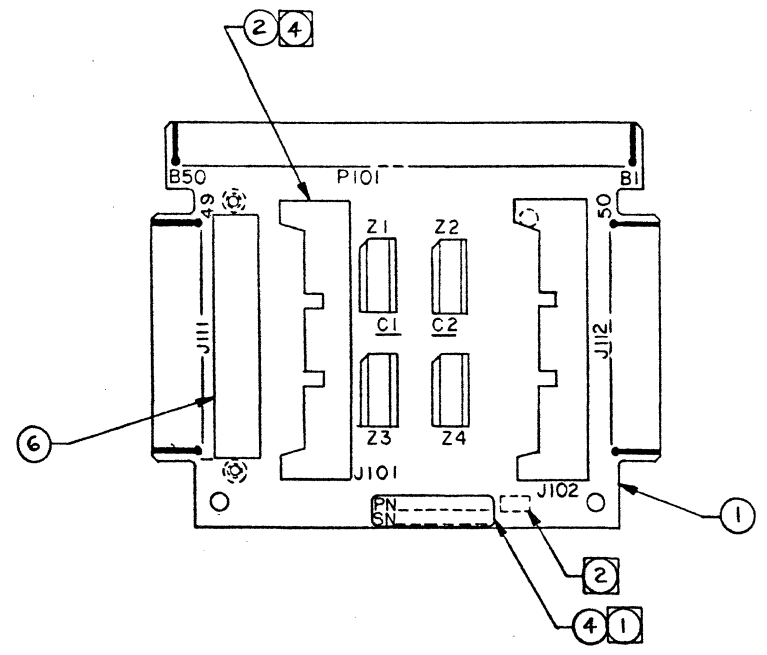
- 1 APPLY PCBA IDENTIFICATION LABEL (ITEM 4) APPROXIMATELY WHERE SHOWN.
- 2 MARK APPROPRIATE REVISION LEVEL WHERE SHOWN PER SPEC 100034 (RUBBER STAMP).
- 3 REFERENCE PCBA WORKMANSHIP STANDARD 170450.
- 4 REMOVE PIN 27 OF J101 AND PIN 18 OF J102 FOR KEYING PURPOSES.

FOR REWORK INSTRUCTIONS, SEE SHEET 3

DRAWN R. Wailaco 12-5-77				DISTRIBUTION CLASS B			
CHECK				BUSINESS SYSTEMS			
APPR				TITLE PCBA, D3000 R/D INTERFACE			
RELEASE				CODE IDENT. NO. SIZE DWG NO. REV			
				10 D 261124 08			
THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR TRANSFERRED TO OTHER DOCUMENTS OR DISCLOSED TO OTHERS OR USED FOR MANUFACTURING OR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN PERMISSION OF PERTEC BUSINESS SYSTEMS				SCALE 1/1 DO NOT SCALE DWG SHEET 1 OF 2			
APPLICATION							

8 7 6 5 4 3 2 1

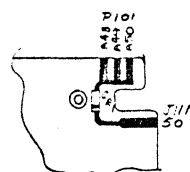
D  
C  
B  
A



SIZE	DWG NO	REV
D	261124	08
DO NOT SCALE DWG		SHEET 2

REV 03 REWORK INSTRUCTIONS: CONFIGURATION 1

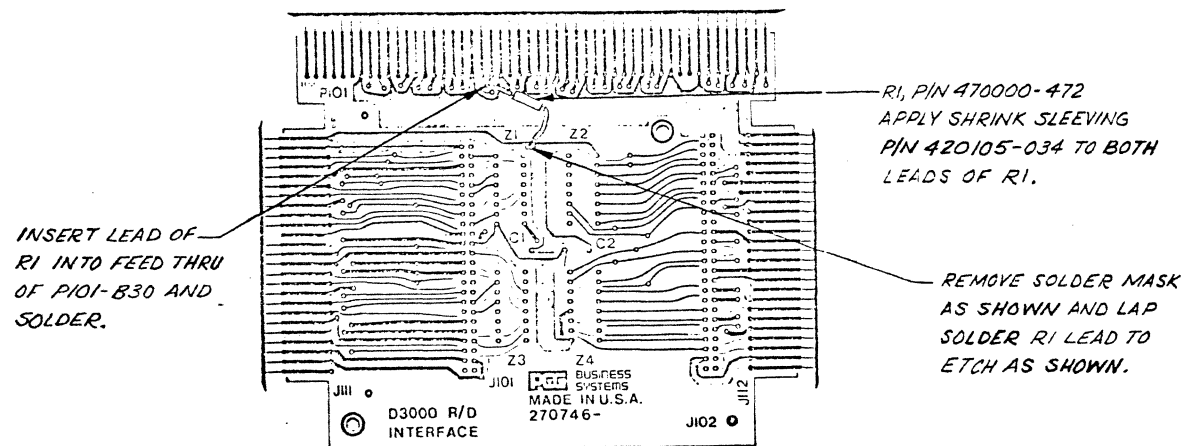
ADD DIODE, CRI IN4001, P/N 330006 AS SHOWN:  
USE ANODE LEAD TO JUMPER P101-A48, A49 & A50



SOLDER SIDE SHOWN

REV 05 REWORK INSTRUCTIONS: CONFIGURATION 1

ADD RESISTOR, R1, 4.7K, P/N 470000-472 ON COMPONENT SIDE FROM FEED THRU AT P101-B30 TO ETCH BETWEEN J101-49 AND Z1-16, AS SHOWN.

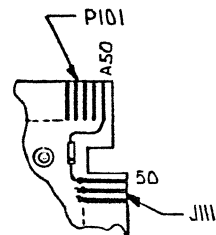


REV 06 REWORK INSTRUCTIONS: CONFIGURATION 1

REMOVE DIODE IN4001, P/N 330006, AT LOCATION CRI

REV 08 REWORK INSTRUCTIONS CONFIGURATION 1

INSTALL CRI (DIODE, IN4001 P/N 330006-000) WITH ANODE END ON P101 PIN A50 AND CATHODE ON J111 PIN 50



Item No.	Quantity Required					Part No.	Nomenclature or Description	Reference Designation
					-000			
1					1	270746	PCB, D3000 R/D INTERFACE	
2					2	320255-001	HEADER, PCB TO CONNECTOR	J101, J102
3					4	320339-003	SOCKET, 16 PIN IC	Z1, Z2, Z3, Z4
4					1	290231	LABEL, PCBA IDENTIFICATION	
5					2	300206-503	CAP, .05UF, 10V, +80%, -20%	C1, C2
6					AR	700042-004	TAPE, TEFLON	
7								
8					1	470000-472	RESISTOR, 4.7K, 1/4W, 10%	R1
9					1	330006-000	DIODE, 1N4001	CR1



8 7 6 5 4 3 2 1

REVISIONS			
SYM	DESCRIPTION	DRFTG	APPROVED DATE
01	RELEASE PER DRO 379-77	EE	2/22/78
02	INCORP DCO 07417	MV	4/24/78
03	INCORP DCO 07714	AD	7/5/78
04	INCORP DCO 08618	BM	11/5/78
05	INCORP DCO 08084	EE	11/27/78
06	INCORP DCO 08530	JR	10/11/78
07	INCORP DCO 09694	BM	11/5/78
08	INCORP DCO 10048	F.C.	11/22/78
09	CODE 10 REL W/O CHANGES PER DCO 10486	FC	4/1/79
10	INCORP DCO 10416	BM	11/29/78

LEGEND FOR TYPES (W) CHANGES:  
 A = MANDATORY  
 B = PHASE IN  
 C = RECORD  
 X = DOCUMENT REVISION LEVEL AT THE TIME CONFIGURATION IS ESTABLISHED

CONFIGURATION DESIGNATOR	CONFIG CONSISTS OF DRAWING NOS	CONFIGURATIONS AFFECTED BY REV LEVELS (SEE LEGEND FOR CODING)																			
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
1	PCBA 261141	X	B						A		A										
	PCBA 260948																				
	PCEA 261134	X																			
	SCHEM 121140		X	C	C																
2	PCBA 261141				X	A	C	A	C	C	A										
	PCB 270771				X																
	EM 150578			X																	
	SM 141024			X																	
	SS 141025			X																	
SCHEM 121147		X	C	C	C	C	C														

- NOTE: UNLESS OTHERWISE SPECIFIED
- 1 APPLY PCBA IDENTIFICATION LABEL (ITEM 15) APPROX WHERE SHOWN.
  - 2 MARK APPROPRIATE REV NO. WHERE SHOWN PER SPEC 100034 (RUBBER STAMP).
  3. REF PCBA WORKMANSHIP STD 170450.
  - 4 DO NOT INSTALL CAPACITORS C7, C9, C10, C11 AND C12.

DRAWN	<i>[Signature]</i>	4-9-78	<b>PERTEC BUSINESS SYSTEMS</b>	
CHECK	<i>[Signature]</i>	5-17-78	TITLE	
APPR	<i>[Signature]</i>	5-11-78	PCBA, BACKWIRING	
RELEASE	<i>[Signature]</i>	5/22/78	CODE IDENT. NO.	SIZE DWG NO.
			DC CODE	REV
			10	D 261141 10
NEXT ASSY	QTY	MODEL	QTY	SCALE 1/1
APPLICATION				DO NOT SCALE DWG SHEET 1 OF 4

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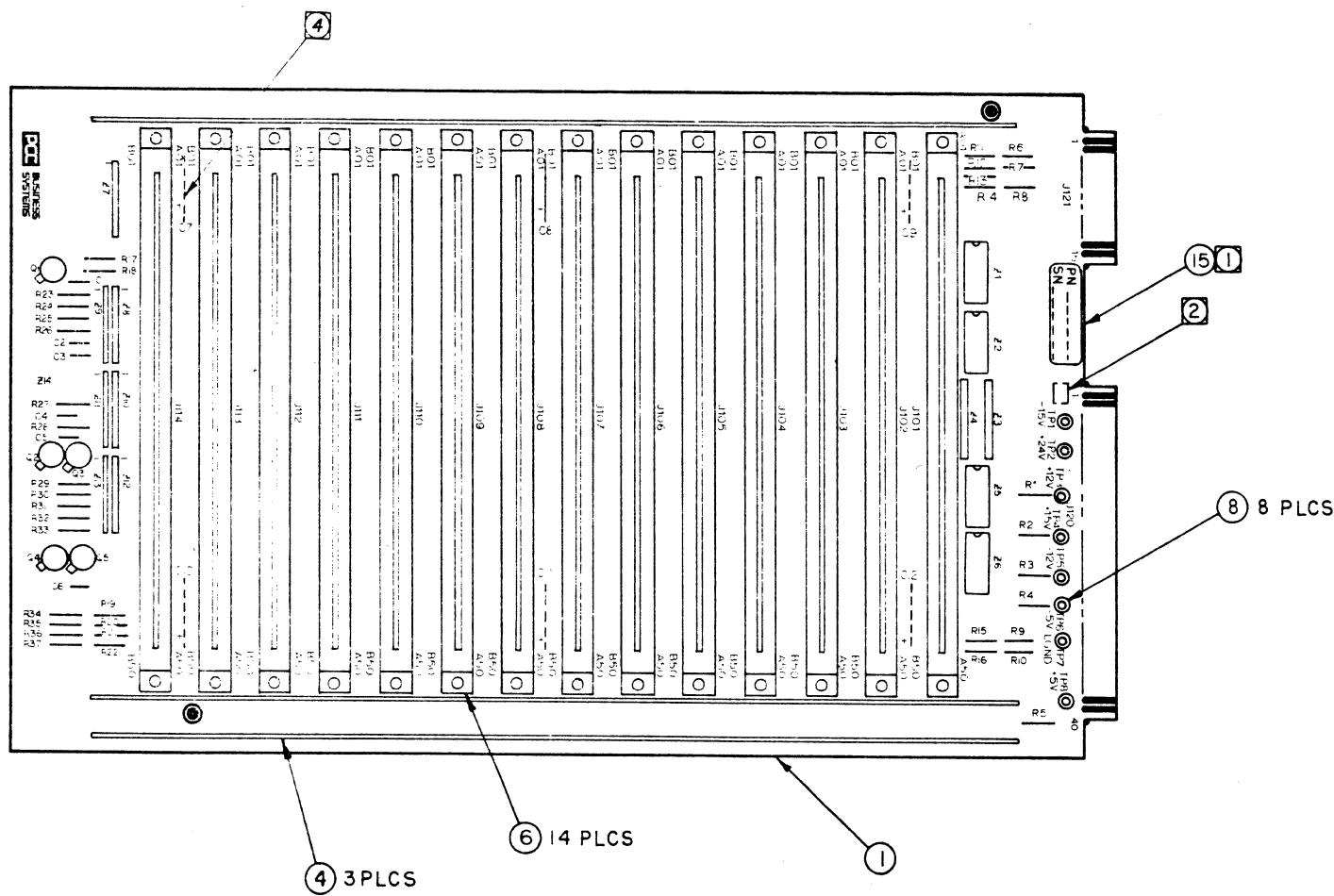
C

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B

A

A



SIZE	DWG NO	REV
D	261.41	10
DO NOT SCALE DWG		SHEET 2

FORMAT #5

MATERIAL LIST

Item No.	Quantity Required					Part No.	Nomenclature or Description	Reference Designation
					-000			
1					1	270771	PCB, XL BACKWIRING	
2								
3					2	470000-271	RESISTOR, 270 OHM 1/4W 10%	R14,R17
4					3	241726	BUS BAR, PCB	
5					1	470000-100	RESISTOR, 10 OHM 1/4W, 10%	R33
6					14	320341-001	CONNECTOR, CARD-EDGE	J101 THRU J114
7					1	470000-105	RES, 1M OHM 1/4W, 10%	R26
8					8	320004-042	TERMINAL, TURRET	TP1 THRU TP8
9					4	470000-151	RESISTOR, 150 OHMS, 1/4W,10%	R6,R7,R11,R12
10					8	470000-221	RESISTOR, 220 OHMS, 1/4W, ±10%	R15,R16,R23,R24,R31,R36,R37,R25
11					4	470000-331	RESISTOR, 330 OHMS, 1/4W, ±10%	R9,R10,R21,R22
12					2	470000-471	RESISTOR, 470 OHMS, 1/4W, ±10%	R30,R32
13					15	470000-102	RESISTOR, 1K, 1/4W, ±10%	R1 THRU R5,R8,R13,R18,R19,R20,R27,R28,R29,R34,R35
14					4	470070-102	RESISTOR PACK, 1K, 1W, ±5%	Z1,Z2,Z5,Z6
15					1	290231	LABEL, PCBA IDENTIFICATION	
16					3	300004-103	CAP, .01UF, CERAMIC ± 20%	C3,C4,C5
17					3	300004-104	CAP, .1UF, CERAMIC ± 20%	C1,C2, C6

MATERIAL LIST

Item No.	Quantity Required					Part No.	Nomenclature or Description	Reference Designation
					-000			
18					1	300005-333	CAP, 33UF, 10V 10%	C8
19					9	470112-001	RESISTOR NETWORK, SIP, 1K	Z3,Z4,Z7 THRU Z13
20					2	500025	TRANSISTOR, 2N2907	Q1,Q5
21					3	500070	TRANSISTOR, 2N2222	Q2,Q3,Q4
22					1	380245	IC, 555 V	Z14

REVISIONS			
SYM	DESCRIPTION	DRFTG	APPROVED DATE
01	RELEASE PER DRO 25-79	EM	3-1-79
02	CODE 05 RELEASE WITH CHANGES: ADDED PICTORIAL AND REWORK INSTRUCTIONS RELEASE PER DRO 25-79	EM	3-1-79
03	CODE 06 REL WITH CHANGES PER DCO 08370	EM	5/14/79
04	INCORP DCO 09613	EM	4/15/79
05	INCORP DCO 09706	EM	4/17/79
06	CODE 10 REL W/ CHANGES PER DCO 10486	EM	4/11/79
07	INCORP DCO 10268	EM	4/11/79

LEGEND FOR TYPES OF CHANGES:  
 A = MANDATORY  
 B = PHASE IN  
 C = RECORD  
 X = DOCUMENT REVISION LEVEL AT THE TIME CONFIGURATION IS ESTABLISHED

CONFIGURATION DESIGNATOR	CONFIG. CONSISTS OF DRAWING NO'S	CONFIGURATIONS AFFECTED BY REV LEVELS (SEE LEGEND FOR CODING)																			
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
1	PCBA 261163	X	A	A	A	C															
	PCB 270801	X																			
	EM 150608	X																			
	SM 141113	X																			
	SS 141114	X																			
SCHEM 121182		X	C	C																	
2	PCBA 261163		X	A	C	B															
	PCB 270824	X																			
	EM 150631	X																			
	SM 141165	X																			
	SS 141166	X																			
SCHEM 121219	X	C	C																		

NOTE: UNLESS OTHERWISE SPECIFIED

- APPLY PCBA IDENTIFICATION LABEL (ITEM 65) APPROX WHERE SHOWN.
- MARK APPROPRIATE REV NUMBER WHERE SHOWN PER SPEC 100034 (RUBBER STAMP).
- REFERENCE PCBA WORKMANSHIP STANDARD 170450.

SEE SHEET 3 FOR REWORK INSTRUCTIONS

DRAWN	MINTZER	1-24-79	<b>PERTEC BUSINESS SYSTEMS</b>	
CHECK	MINTZER	2-6-79		
APPR	WSP	3-1-79	TITLE	
RELEASE	BRINK	3-1-79	PCBA, TEST SET CONTROLLER	
THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR TRANSMITTED TO OTHER DOCUMENTS OR DISCLOSED TO OTHERS OR USED FOR MANUFACTURING OR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN PERMISSION OF PERTEC BUSINESS SYSTEMS.			CODE IDENT. NO.	REV
APPLICATION			DC CODE	261163
NEXT ASSY QTY MODEL QTY			SCALE	07
UTP XL20 XL40			DO NOT SCALE DWG	SHEET 1 OF 7

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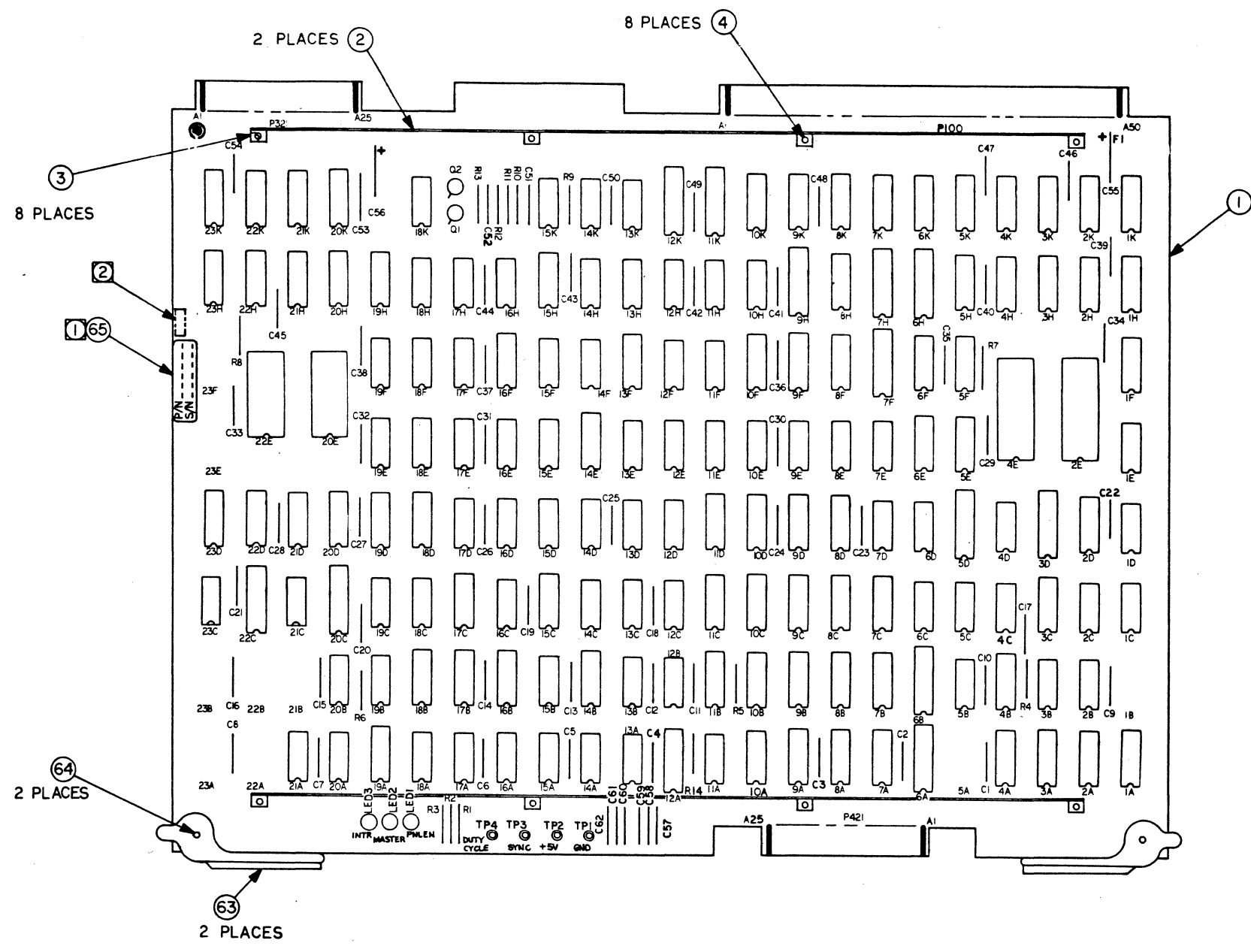
1

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C

B

A



SIZE	DWG NO	REV
D	261163	07
DC NOT SCALE DWG		SHEET 2

REV 04 REWORK INSTRUCTIONS 1<sup>ST</sup> CONFIG

REMOVE IC, 74LS00 FROM LOCATION 12F  
REPLACE WITH IC, 74S00, P/N 380447

CUT ETCH AT THE FOLLOWING:

- 9D-PIN 1 COMPONENT SIDE
- 13K-PIN 2 COMPONENT SIDE
- 19A-PIN 1 SOLDER SIDE
- 18F-PIN 1 SOLDER SIDE
- 13K-PIN 1 SOLDER SIDE
- 13K-PIN 3 SOLDER SIDE
- 15B-PIN 3 SOLDER SIDE

ADD THE FOLLOWING JUMPERS USING 30 AWG BLUE KYMAR WIRE,  
P/N 510023-030.

<u>FROM</u>	<u>TO</u>
9D-PIN 1	9D-PIN 16
19A-PIN 15	18F-PIN 1
19A-PIN 1	16D-PIN 9
12F-PIN 1	13F-PIN 7
12F-PIN 2	11F-PIN 2
12F-PIN 3	P100-PIN B41
15B-PIN 9	15D-PIN 10

REV 05 REWORK INSTRUCTIONS 1<sup>ST</sup> CONFIG ONLY

ON COMPONENT SIDE

REMOVE JUMPER FROM 9D1 TO 9D16

INSTALL RESISTOR(R15) P/N 470000-102 FROM: 9D1  
TO: C24 LEAD NEAR 9D16

REV 05 REWORK INSTRUCTIONS 2<sup>ND</sup> CONFIG ONLY

ON COMPONENT SIDE

CUT ETCH AT: 2D11, 9D1, 13K2,

ON SOLDER SIDE

CUT ETCH AT: 2D13, 13K1, 13K3, 15B9

ON COMPONENT SIDE

REMOVE IC AT LOCATION 6C.

INSTALL IC (P/N 380447) AT LOCATION 6C.

INSTALL RESISTOR(R15) P/N 470000-102 FROM: 9D1 TO:  
C24 LEAD NEAR 9D16.

INSTALL RESISTOR(R14) P/N 470000-102

ADD JUMPERS USING 30AWG BLUE KYMAR WIRE(P/N 510023-  
030) AS FOLLOWS:

<u>FROM:</u>	<u>TO:</u>	<u>FROM:</u>	<u>TO:</u>
6C-9	13F7	1F13	6K3
6C-10	11F2	1F11	6K6
6C-8	P100-B41	19H15	19H13
15B9	15D10	19H13	19H10
17C6	4E15	20H13	20H10
1A6	2A6	20H15	20H13
1F15	2D15	20H6	20H8
1F14	2D14	20H3	20H6
1F12	2D12		

<small>THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR TRANSMITTED TO OTHER DOCUMENTS OR ENCLOSED TO OTHERS OR USED FOR MANUFACTURING OR ANY OTHER PURPOSE WITHOUT THE WRITTEN PERMISSION OF PERTEC COMPUTER CORPORATION.</small>	SIZE	DWG NO	REV
	D	261163	07
DO NOT SCALE DWG		SHEET 3	



## MATERIAL LIST

Sheet 4 of 7

ML Dwg. No. 261163

Rev. 07

Item No.	Quantity Required				Part No.	Nomenclature or Description	Reference Designation
				-000			
1					270824-000	PCB, TEST SET CONTROLLER	
2					241725-000	STIFFENER, PCB	
3					241219-000	INSULATOR, PCB STIFFENER	
4					370081-171	RIVET	
5					320004-042	TERMINAL, TURRET	TP1, TP2, TP3, TP4
6					380601-000	IC, 74LS00	16C, 12F, 15F, 16H
7					380591-000	IC, 74LS02	13D, 16E
8					380431-000	IC, 74LS04	20B, 12C, 13C, 7D, 12D, 16D, 1E, 18E, 12H
9					380051-000	IC, 7408	16A
10					380021-000	IC, 7404	18A
11					380498-000	IC, 74LS08	2B, 12B, 4C, 14C, 19C, 10E, 15E, 10H
12					380502-000	IC, 74S08	15K
13					380593-000	IC, 74LS10	1C, 17D, 7E, 18H
14					380637-000	IC, 74LS11	11A, 11F, 19F
15					380638-000	IC, 74LS14	13A, 18K
16					380608-000	IC, 74LS20	2C, 14D, 11E
17					380639-000	IC, 74LS21	18C, 12E, 13E
18							
19					380614-000	IC, 74LS32	14A, 20A, 19B, 6D, 15D, 8E, 9E, 11H, 14H

790406 03



## MATERIAL LIST

Sheet 5

ML Dwg. No. 261163

Rev. 07

Item No.	Quantity Required				Part No.	Nomenclature or Description	Reference Designation
				-000			
20					380163-000	IC, 7438	5B, 13K
21					380606-000	IC, 74S132	14K
22					380305-000	IC, 7425	13B
23					380595-000	IC, 74LS74	5C, 17E, 17F, 18F, 13H, 17H
24					380524-000	IC, 74S74	3B, 19E
25					380447-000	IC, 74S00	6C
26					380644-000	IC, 74LS109	19A, 11B, 17B, 18B, 14E, 13F, 15H
27					380707-000	IC, 74LS51	14F
28					380645-000	IC, 74S133	3C, 10K
29					380611-000	IC, 74LS138	1A, 2A, 3A, 4A, 9A, 4B, 9B, 16B, 10C, 10D
30					380619-000	IC, 74LS153	7C
31					380491-000	IC, 74LS157	10B
32					380525-000	IC, 74S157	19H, 20H, 21H, 22H, 23H
33					380751-000	IC, 74LS161A	17C
34					380586-000	IC, 74LS174	14B, 9D
35							
36					380674-000	IC, 74LS193	9C, 19D, THRU 23D, 5E, 6E, 1H THRU 5H
37					380846-000	IC, 74LS240	3D, 5D, 12K
38					380809-000	IC, 74LS244	6A, 12A, 6B, 20C, 22C, 7F, 6H, 7H, 9H, 11K

790406 03



## MATERIAL LIST

Sheet 6

ML Dwg. No. 261163

Rev. 07

Item No.	Quantity Required				Part No.	Nomenclature or Description	Reference Designation
				-000			
39					380622-000	IC, 74LS257	8C, 8D
40					380703-000	IC, 74LS258	7A, 8A, 7B, 8B
41							
42					380847-000	IC, 74LS367	18D, 1F, 5F, 21K, 22K
43					380848-000	IC, 74LS368	2D, 20K, 23K
44					380852-000	IC, 82S09	2E, 4E
45					380656-000	IC, DM8613	11C, 15C, 11D, 16F
46							
47					380627-000	IC, DM8556	6F, 8F, 9F, 10F, 8H
48					380625-000	IC, DS8835	1K THRU 9K
49					381061-001	IC, DM8130	20E, 22E
50							
51					520057-000	LED (MV5025)	LED1, LED2, LED3
52					470000-151	RESISTOR, 150 OHMS, 1/4W, 10%	R1, R2, R3
53					470000-102	RESISTOR, 1K OHMS, 1/4W, 10%	R4 THRU R9, R14, R15
54					470024-150	RESISTOR, 15 OHMS, 1/4W, 5%	R11
55					470024-221	RESISTOR, 220 OHMS, 1/4W, 5%	R10, R12
56					470041-470	RESISTOR, 47 OHMS, 1/2W, 5%	R13
57							
58					500070-000	TRANSISTOR, 2N2222	Q1, Q2
59					300005-333	CAPACITOR, 33UF, 10V, 10%	C55, C56

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## MATERIAL LIST

Sheet 7

ML Dwg. No. 261163

Rev. 07

Item No.	Quantity Required				Part No.	Nomenclature or Description	Reference Designation
				-000			
60					300275-029	CAPACITOR, .047 UF, 50V, 20%	C1 THRU C51, C53, C54
61							
62					300275-033	CAPACITOR, .1UF, 20%, 50V	C52
63					240871-000	EJECTOR, INJECTOR	
64					370181-504	ROLL PIN	
65					290231-000	LABEL, PCBA IDENTIFICATION	
66					470070-102	NETWORK, RESISTOR, 1K	1D, 4D, 21C, 23C, 10A
67							
68					380873-000	IC, 74LS393	15A, 17A
69					380029-000	IC, 7405	21A, 15B
70					300275-013	CAPACITOR, 2200PF, 50V, 20%	C57 THRU C62

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LEGEND FOR TYPES OF CHANGES:  
 A - MANDATORY  
 B - PHASE IN  
 C - RECORD  
 X - DOCUMENT REVISION LEVEL AT THE TIME CONFIGURATION IS ESTABLISHED

CONFIGURATION DESIGNATOR	CONFIG. CONSISTS OF DRAWING NO'S	CONFIGURATIONS AFFECTED BY REV LEVELS (SEE LEGEND FOR CODING)																			
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
1	PCBA 261165		X			C	A	B													
	PCB 270804	X																			
	EM 150611	X																			
	SM 141120	X																			
	SS 141121	X																			
	SCHEM 121187	X	C																		
2	PCBA 261165			X	C	A	B	C													
	PCB 270822	X																			
	EM 150629	X																			
	SM 141162	X																			
	SS 141161	X																			
	SCHEM 121220	X	C																		

REVISIONS			
SYM	DESCRIPTION	DRAFT	APPROVED DATE
01	RELEASE PER DRG 973-75	EB	4-3-79
02	ADDED PICTORIAL & REVISED PER ETCH	EB	7/1/79
03	CODE 05 RELEASE WITH CHANGES: ADDED REWORK RELEASE PER DRG 220-79	EB	7/23/79
04	CODE 06 RELEASE WITH CHANGES PER DCO 09241.	EB	7/27/79
05	INCCORP DCO 10021	TA	8/2/80
06	INCCORP DCO 10296	EM	3/3/80
07	INCCORP DCO 10394	EM	4/1/80
08	CODE 10 RELEASE W/O CHANGE PER DCO 10426	EM	4/9/80

- NOTE: UNLESS OTHERWISE SPECIFIED
- APPLY PCBA IDENTIFICATION LABEL (ITEM 36) APPROX WHERE SHOWN.
  - MARK APPROPRIATE REV NUMBER APPROX WHERE SHOWN PER SPEC 100034 (RUBBER STAMP).
  - REFERENCE PCBA WORKMANSHIP STANDARD 170450.

SEE SHEET 3 FOR REWORK INSTRUCTIONS

DRAWN	MINTZER	3-21-79	<b>PER BUSINESS SYSTEMS</b>	
CHECK	ROQUEMORE	4-3-79	A Division of Perkin-Elmer Corporation	
APPR	POSTMA	4-3-79	TITLE	
RELEASE	BRINK	4-3-79	PCBA, TEST SET DISPLAY	
THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR TRANSFERRED TO OTHER DOCUMENTS OR DISCLOSED TO OTHERS OR USED FOR MANUFACTURING OR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN PERMISSION OF PERTEC BUSINESS SYSTEMS			CODE IDENT. NO.	REV
NEXT ASSY QTY MODEL QTY			DC CODE	REV
APPLICATION			D 261165	08
			SCALE	DO NOT SCALE DWG SHEET 1 OF 6



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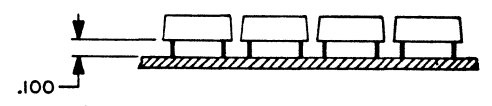
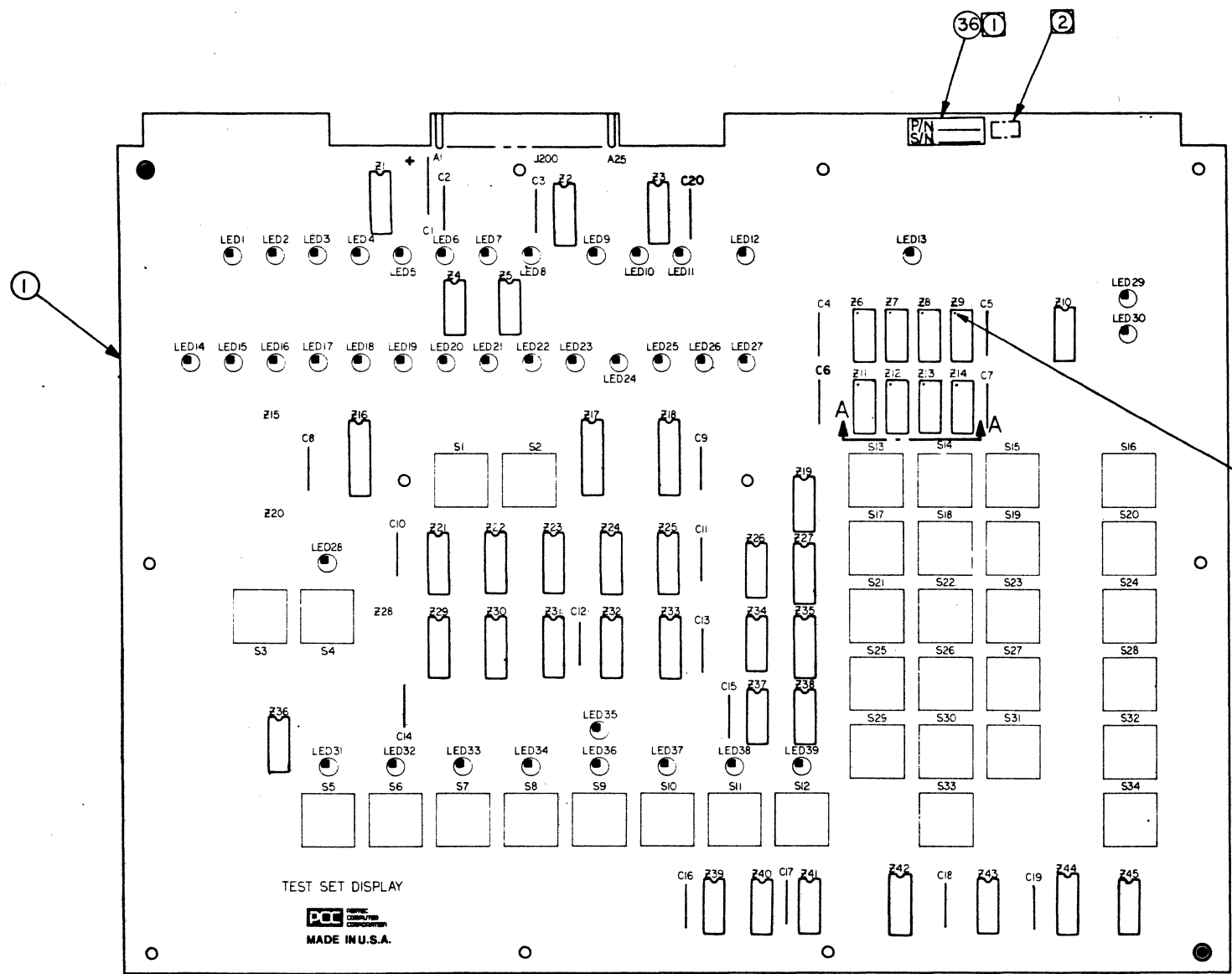
5

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SECTION A-A  
 SCALE: NONE  
 TYPICAL Z6 THRU Z9, Z11 THRU Z14

PIN 1 REF  
 8PLCS

SIZE	DWG NO	REV
<b>D</b>	261165	08
DO NOT SCALE DWG		SHEET 2

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REV 06  
REWORK INSTRUCTIONS CONFIG 142

ON COMPONENT SIDE

ADD JUMPER USING 30 AWG BLUE KYNAR WIRE (PIN 510023-030)

FROM: E18-11 TO: E19-1

D

C

E

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	D	261165	08
DO NOT SCALE DWG		SHEET 3 OF	



MATERIAL LIST

Sheet 6 of 6 ML Dwg. No. 261165 Rev. 08

Item No.	Quantity Required	-000	Part No.	Nomenclature or Description	Reference Designation
1			1 270822-000	PCB, TEST SET DISPLAY	
2			18 420220-100	SWITCH CAP	S1 THRU S12, S16, S20, S24, S28, S32, S34
3			1 420220-001	SWITCH CAP (0)	S33
4			1 420220-002	SWITCH CAP (1)	S29
5			1 420220-003	SWITCH CAP (2)	S30
6			1 420220-004	SWITCH CAP (3)	S31
7			1 420220-005	SWITCH CAP (4)	S25
8			1 420220-006	SWITCH CAP (5)	S26
9			1 420220-007	SWITCH CAP (6)	S27
10			1 420220-008	SWITCH CAP (7)	S21
11			1 420220-009	SWITCH CAP (8)	S22
12			1 420220-010	SWITCH CAP (9)	S23
13			1 420220-011	SWITCH CAP (A)	S17
14			1 420220-012	SWITCH CAP (B)	S18
15			1 420220-013	SWITCH CAP (C)	S19
16			1 420220-014	SWITCH CAP (D)	S13
17			1 420220-015	SWITCH CAP (E)	S14
18			1 420220-016	SWITCH CAP (F)	S15

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MATERIAL LIST

Sheet 5 of 6 ML Dwg. No. 261165 Rev. 08

Item No.	Quantity Required	-000	Part No.	Nomenclature or Description	Reference Designation
19			39 520062-001	DIODE, LED VISIBLE	LED 1 THRU LED 39
20			8 530086-000	DISPLAY, HEX WITH LOGIC (1707)	Z6 THRU Z9, Z11 THRU Z14
21			1 380614-000	IC, 74LS32	Z10
22			1 380021-000	IC, 7404	Z34
23			1 380431-000	IC, 74LS04	Z40
24			2 380029-000	IC, 7405	Z37, Z39
25			2 380163-000	IC, 7438	Z26, Z43
26			4 380262-000	IC, 74148	Z27, Z35, Z42, Z44
27			10 380180-000	IC, 74175	Z21 THRU Z25, Z29, THRU Z33
28			1 380846-000	IC 74LS240	Z18
29			2 380809-000	IC, 74LS244	Z16, Z17
30			3 470070-151	RESISTOR, NETWORK, 150 OHM	Z4, Z5, Z36
31			6 470070-102	RESISTOR, NETWORK, 1K	Z19, Z38, Z41, Z45, Z1, Z2
32			1 470099-001	RESISTOR, NETWORK TERMINATOR 220/330	Z3
33			1 300275-013	CAPACITOR, 2200PF, 50V, 20%	C20
34			1 300005-333	CAPACITOR, 33 uf, 10V, ± 10%	C1
35			18 300275-029	CAPACITOR, .047 uf, 50V, ± 20%	C2 THRU C19

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MATERIAL LIST

Sheet 6 of 6 ML Dwg. No. 261165 Rev. 08

Item No.	Quantity Required	-000	Part No.	Nomenclature or Description	Reference Designation
36			1 290231-000	LABEL, PCBA IDENTIFICATION	
37			34 480138-001	SWITCH BODY	S1 THRU S34

790406 03

REVISIONS			
SYM	DESCRIPTION	DRFTG	DATE
07	CODE / NO CHANGE	D 10894	MV: 10/18/80

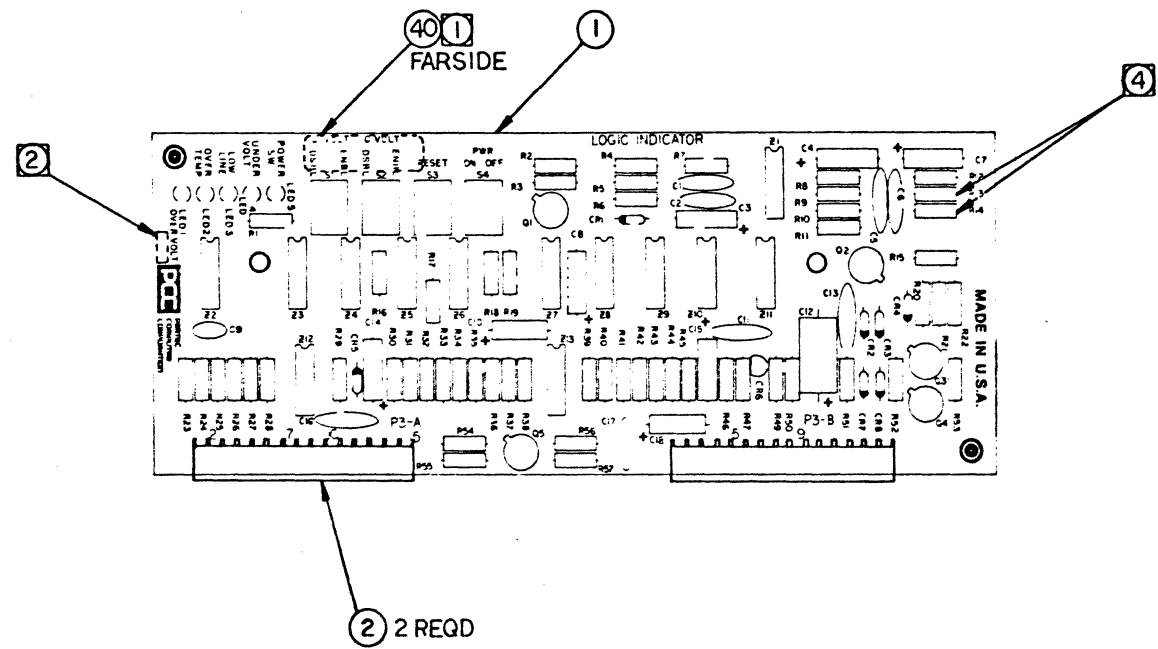
LEGEND FOR TYPES OF CHANGES:  
 A = MANDATORY  
 B = PHASE IN  
 C = RECORD  
 X = DOCUMENT REVISION LEVEL AT THE TIME CONFIGURATION IS ESTABLISHED

CONFIGURATION DESIGNATOR	CONFIG. CONSISTS OF DRAWING NOS	CONFIGURATIONS AFFECTED BY REV LEVELS (SEE LEGEND FOR CODING)																			
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
01	PCBA 261172			X	C	B															
	PCB 270835	X																			
	EM 150697	X																			
	SM 141189	X																			
	SS 141188	X																			
SCHEM 121191		X																			
02	PCBA 261172						X	C													
	PCB 270849	X																			
	EM 150655	X																			
	SM 141218	X																			
	SS 141217																				
SCHEM 121191			X	C																	

NOTE: UNLESS OTHERWISE SPECIFIED

1. APPLY PCBA IDENTIFICATION LABEL (ITEM 40) APPROX WHERE SHOWN.
2. MARK APPROPRIATE REV NUMBER WHERE SHOWN PER SPEC 100034 (RUBBER STAMP).
3. REFERENCE PCBA WORKMANSHIP STANDARD 170450.
4. RESISTORS NOTED ARE TEST SELECT AND ARE TO BE SELECTED AT FINAL TEST.

DRAWN	TC/MV	5-22-79	PERTEC BUSINESS SYSTEMS		
CHECK	T. CLARK	5-24-79	A DIVISION OF PERTEC CORPORATION		
APPR	W. MARKER	5-31-79	TITLE PCBA, LOGIC INDICATOR		
RELEASE	A. BRANK	5-31-79	CODE IDENT. NO. SIZE DWG NO. REV		
211659 - XL20 -			10 D 261172 07		
NEXT ASSY QTY MODEL UT			SCALE 1/1 DO NOT SCALE DWG SHEET 1 OF 5		
APPLICATION			THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR TRANSFERRED TO OTHER PERSONS OR DISCLOSED TO OTHERS OR USED FOR MANUFACTURING OR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN PERMISSION OF PERTEC BUSINESS SYSTEMS		



<small>THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR TRANSFERRED TO OTHERS OR USED FOR MANUFACTURING OR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN PERMISSION OF PERTEC COMPUTER CORPORATION.</small>	<small>SIZE</small> <b>D</b>	<small>DWG NO</small> 261172	<small>REV</small> 07
	<small>NOT SCALE DWG</small>	<small>SHEET</small> 2	

Item No.	Quantity Required				Part No.	Nomenclature or Description	Reference Designation
				-000			
1					270849-000	PCB, LOGIC INDICATOR	
2					320357-001	CONNECTOR	P3A, P3B
3					480143-001	SWITCH, MOMENTARY	S1, S3
4					480144-001	SWITCH, SPDT	S4, S2
5					380020-000	IC, 7400	Z8, Z6, Z4, Z3, Z2
6					380786-000	IC, 7414	Z5, Z10
7					380038-000	IC, 7416	Z9, Z11, Z12
8					380587-000	IC, 74S30	Z7
9					380710-000	IC, MC3302	Z13
10					381044-001	IC, 556	Z1
11					470124-004	RESISTOR, 1K, ±5%, 1/2W	R15, R27, R28, R50, R53, R54, R55
12					470124-039	RESISTOR, 2.7K, ±5%, 1/2W	R7, R9, R18, R19, R37, R38, R40, R42, R43
13					470124-005	RESISTOR, 10K, ±5%, 1/2W	R2, R30, R31, R33, R35, R36, R44, R45, R10
14					470124-032	RESISTOR, 2.2K, ±5%, 1/2W	R16
15					470124-047	RESISTOR, 33K, ±5%, 1/2W	R12, R32
16					470124-006	RESISTOR, 100K, ±5%, 1/2W	R8
17					470124-020	RESISTOR, 150K, ±5%, 1/2W	R17, R34, R39, R41, R46
18					470124-058	RESISTOR, 47 OHMS, ±5%, 1/2W	R47

Item No.	Quantity Required				Part No.	Nomenclature or Description	Reference Designation
				-000			
19					470124-003	RESISTOR, 100 OHMS, ±5%, 1/2W	R4, R11, R56
20					470124-085	RESISTOR, 3 OHMS, ±5%, 1/2W	R52
21					470124-024	RESISTOR, 180 OHMS, ±5%, 1/2W	R1, R5, R23, R24, R25, R26
22					470124-045	RESISTOR, 330 OHMS, ±5%, 1/2W	R6, R20, R21, R22
23					470124-072	RESISTOR, 680 OHMS, ±5%, 1/2W	R3, R29, R57
24					470121-4	RESISTOR, ±1%, 1/2W	R13, R14
25					470121-265	RESISTOR, 3.4K, ±1%, 1/2W	R49
26					470121-274	RESISTOR, 1.3K, ±1%, 1/2W	R51
27					300206-503	CAP, .05UF, 10V, -20%, +80%	C11, C16, C17
28					300009-103	CAP, .01UF, 100V, 20%	C1, C2, C5, C6, C9, C13
29					300013-222	CAP, TANT, 2.2UF, 35V	C3, C10
30					300005-333	CAP, TANT 33UF, 10V	C4, C7, C8, C14, C15, C18
31					300289-001	CAP, TANT, 100UF, 25V	C12
32							
33					330160-001	DIODE, LM336BZ	CR6
34					330004-000	DIODE, 1N4002	CR2, CR3, CR7, CR8
35					330154-001	DIODE, 1N4448	CR1, CR4, CR5
36					520055-000	LED RED	LED1, LED2, LED3, LED4, LED5
37					500428-001	TRANSISTOR, 2N3724	Q1, Q2, Q5

Item No.	Quantity Required				Part No.	Nomenclature or Description	Reference Designation
				-000			
38					500069-000	TRANSISTOR, 2N2905	Q3, Q4
39							
40					290231-000	LABEL, PCBA IDENTIFICATION	

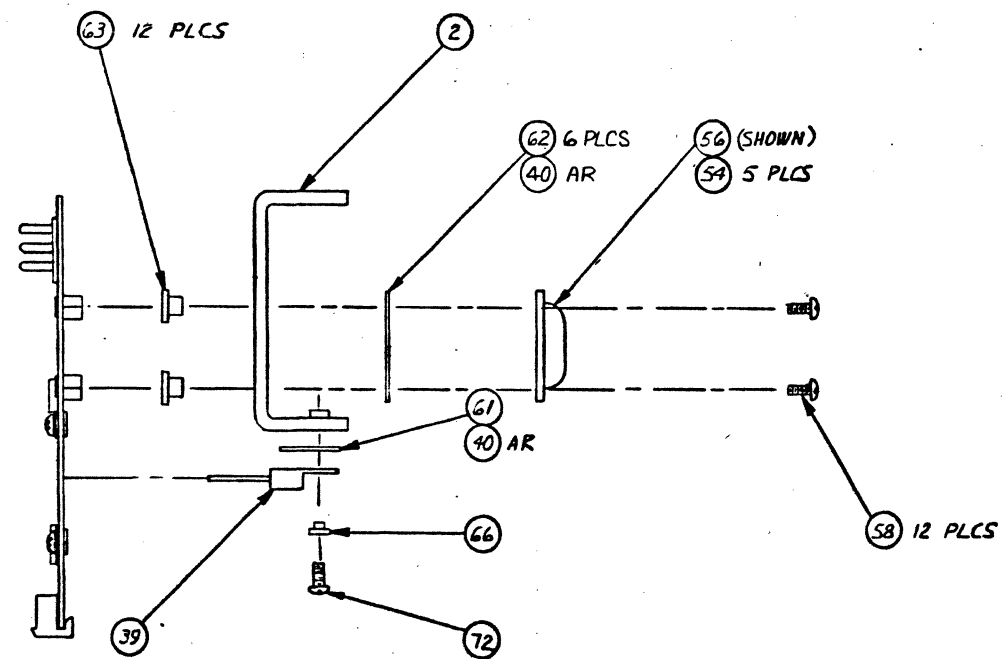
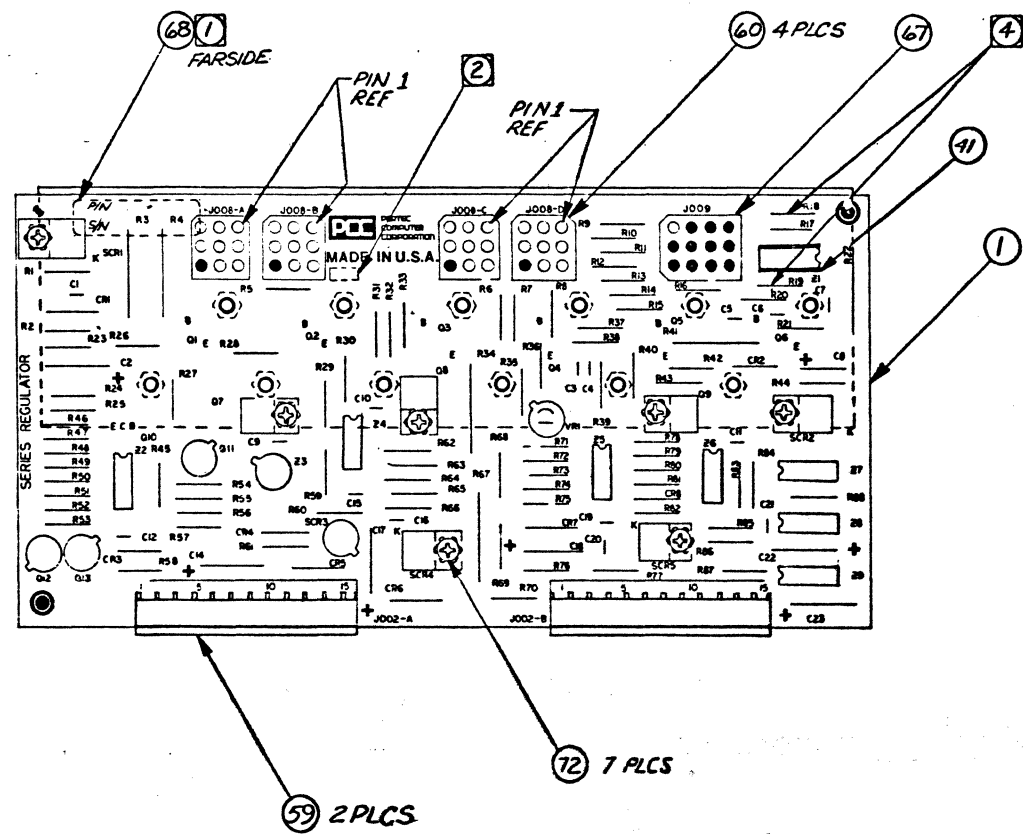
LEGEND FOR TYPES OF CHANGES:  
**A** = MANDATORY  
**B** = PHASE IN  
**C** = RECORD  
**X** = DOCUMENT REVISION LEVEL AT THE TIME CONFIGURATION IS ESTABLISHED

CONFIGURATION DESIGNATOR	CONFIG. CONSISTS OF DRAWING NO'S	CONFIGURATIONS AFFECTED BY REV LEVELS (SEE LEGEND FOR CODING)																			
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
01	PCBA 261173			X	A	B	B	C	B												
	PCB 270834	X																			
	EM 150642	X																			
	SM 141135	X																			
	SS 141136	X																			
	SCHEM 121192	X	C	C	C																

REVISION		DESCRIPTION	DRFTG	APPRO	DATE
01		RELEASE PER DRO 107-79		EB	5-31-79
02		ADDED PICTORIAL, ADDED PCL PART NO'S TO ML	TA	RES MP EB	7/6/79
03		CODE 05 RELEASE WITH CHANGES, REVISED PER ENG. INPUT RELEASE PER DRO 486-79	JL TR	EB	11/14/79
04		INCCORP DCO 10717	JL MP	EB	1/15/80
05		SEE VARIATION DCO 10804	MV	EB	7/25/80
06		INCCORP DCO 10828	MV	EB	7/25/80
07		CODE 10 REL W/O CHANGE PER DCO 10894	MVA	EB	10/28/80
08		INCCORP DCO 11473	MV	EB	1/23/81
09		INCCORP DCO 11699	GB	EB	4/21/81

- NOTE: UNLESS OTHERWISE SPECIFIED
- ① APPLY PCBA IDENTIFICATION LABEL (ITEM 68) APPROX WHERE SHOWN.
  - ② MARK APPROPRIATE REV NUMBER WHERE SHOWN PER SPEC 100034 (RUBBER STAMP).
  3. REFERENCE PCBA WORKMANSHIP STANDARD 170450.
  - ④ RESISTORS NOTED ARE TEST SELECT AND ARE TO BE SELECTED AT FINAL TEST.

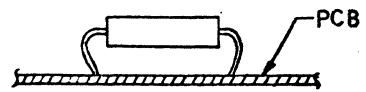
DRAWN		TC / MV	5-23-79	PERTEC BUSINESS SYSTEMS	
CHECK		TCLARK	5-24-79	TITLE	
APPR		DSCHUMAKER	5-31-79	PCBA, SERIES REGULATOR	
RELEASE		G BRINK	5-31-79	CODE IDENT. NO.	SIZE DWG NO
				DC CODE	REV
				10	D 261173 09
APPLICATION				SCALE	DO NOT SCALE DWG SHEET 1 OF 7





8 7 6 5 4 3 1

REV 09  
REWORK INSTRUCTIONS CONFIG 1  
ON COMPONENT SIDE  
REMOVE R76 (P/N 470124-086) AND  
REPLACE WITH NEW R76 (P/N 470053-150)  
AS SHOWN:



D  
C  
B  
A

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR TRANSFERRED TO OTHER DOCUMENTS OR DISCLOSED TO OTHERS OR USED FOR MANUFACTURING OR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN PERMISSION OF PERTEC COMPUTER CORPORATION.	SIZE	DWG NO	REV
	D	261173	09
DO NOT SCALE DWG		SHEET 3	



## MATERIAL LIST

Sheet 4 of 7 ML Dwg. No. 261173 Rev. 09

Item No.	Quantity Required				Part No.	Nomenclature or Description	Reference Designation
				-000			
1					270834-000	PCB, SERIES REGULATOR	
2					230716-000	HEATSINK	
3					380133-000	IC, REGULATOR UA723	Z1, Z2, Z4, Z5
4					380710-000	IC, COMPARATOR MC3302P	Z7, Z8, Z9
5					380082-000	IC, 2 NAND O.C. 7403	Z6
6					470124-004	RESISTOR, 1K, ±5%, 1/2W	R6, R9 THRU R13, R25, R42, R53, R56, R62, R64, R68, R83 THRU R86
7					470124-082	RESISTOR, 1.6 OHMS, ±5%, 1/2W	R49
8					470124-088	RESISTOR, 16 OHMS, ±5%, 1/2W	R51
9					470124-018	RESISTOR, 1.5K, ±5%, 1/2W	R75
10					470124-025	RESISTOR, 1.8K, ±5%, 1/2W	R23
11					470124-011	RESISTOR, 1.2K, ±5%, 1/2W	R30
12					470053-150	RESISTOR, 15 OHMS, ±5%, 5W	R76
13					470124-024	RESISTOR, 180 OHMS, ±5%, 1/2W	R1, R44, R60, R61, R63, R78, R73, R82
14					470124-045	RESISTOR, 330 OHMS, ±5%, 1/2W	R26, R33, R52, R57, R69, R71
15					470124-059	RESISTOR, 470 OHMS, ±5%, 1/2W	R5, R27, R65, R66
16					470124-072	RESISTOR, 680 OHMS, ±5%, 1/2W	R58, R70
17					470124-087	RESISTOR, 5.1K, ±5%, 1/2W	R59
18					470124-058	RESISTOR, 47 OHMS, ±5%, 1/2W	R2, R21, R28, R32, R36, R43

-06-03



## MATERIAL LIST

Sheet 6 of ML Dwg. No. 261173 Rev. 09

Item No.	Quantity Required				Part No.	Nomenclature or Description	Reference Designation
				-000			
38					470121- 4	RESISTOR, SELECT 1%, 1/4W	R18, R19
39					500429-001	TRANSISTOR, TIP31	Q10
40					AR 700043-000	THERMAL COMPOUND	
41					320339-002	SOCKET, LOW PROFILE, IC 14 PIN	
42					300009-103	CAP, .01UF, 100V	C6, C9, C10, C12, C21
43					300290-001	CAP, .001UF, 1000V	C3, C4, C5, C11, C21
44					300005-333	CAP, 33UF, 10V	C23
45					300295-001	CAP, 0.1UF, 25V	C1, C7, C15, C16, C20
46					300175-682	CAP, 6.8UF, 35V	C2, C17, C18, C22
47					300013-222	CAP, 2.2UF, 35V	C8
48					330005-000	DIODE, 1N753	CR2, CR8
49					330161-001	DIODE, MR501	CR1, CR5, CR6, CR7
50					330165-001	RECTIFIER (SCR), 2N6394	SCR1, SCR2, SCR4, SCR5
51					330162-001	DIODE, 1N5245B (ZENER)	CR4
52					380143-001	VOLT REG 2.5V, 1%, SG3503	VR1
53					500069-000	TRANSISTOR, 2N2905A	Q11, Q13
54					500006-000	TRANSISTOR, 2N3055	Q1 THRU 15
55					500425-001	TRANSISTOR, 2N5296	Q7, Q8, Q9
56					599424-001	TRANSISTOR, 2N6576	Q6



## MATERIAL LIST

Sheet 5 of ML Dwg. No. 261173 Rev. 09

Item No.	Quantity Required				Part No.	Nomenclature or Description	Reference Designation
				-000			
19					470124-017	RESISTOR, 150 OHMS, ±5%, 1/2W	R50
20					470124-003	RESISTOR, 100 OHMS, ±5%, 1/2W	R47
21					470125-002	RESISTOR, 0.2 OHMS, 5%, 5W	R34, R41, R67
22					470125-001	RESISTOR, 0.3 OHMS, 5%, 5W	R22
23					470122-005	RESISTOR, 13.3K, 1/2%, 1/4W	R45
24					470121-027	RESISTOR, 1.21K, 1%, 1/4W	R17
25					470122-002	RESISTOR, 1.37K, 1/2%, 1/4W	R74
26					470121-267	RESISTOR, 3.75K, 1%, 1/4W	R38
27					470122-006	RESISTOR, 2.74K, 1/2%, 1/4W	R79
28					470122-004	RESISTOR, 2.74K, 1/2%, 1/4W	R7, R8, R16, R20, R24, R39 R55, R77, R81, R87, R88
29					470122-001	RESISTOR, 10.4K, 1/2%, 1/4W	R35
30					470121-222	RESISTOR, 6.49K, 1%, 1/4W	R37
31					470122-008	RESISTOR, 11.8K, 1/2%, 1/4W	R40
32					470122-009	RESISTOR, 13.0K, 1/2%, 1/4W	R15
33					470122-003	RESISTOR, 23.7K, 1/2%, 1/4W	R54
34					470122-010	RESISTOR, 26.7K, 1/2%, 1/4W	R14
35					470121-003	RESISTOR, 1.0K, 1%, 1/4W	R80
36					330102-000	DIODE, 1N5232	CR3
37					500428-001	TRANSISTOR, 2N3724	Q12

790406-03



## MATERIAL LIST

Sheet 7 of ML Dwg. No. 261173 Rev. 09

Item No.	Quantity Required				Part No.	Nomenclature or Description	Reference Designation
				-000			
57					330164-001	SCR TIC39Y	SCR3
58					370036-408	SCREW, PAN HD PH LOCKING	
59					320357-001	CONNECTOR	J002-A, J002-B
60					320354-005	CONNECTOR	J008-A, J008-B, J008-C, J008-D
61					350157-001	MICA INSULATOR	
62					350139-001	MICA INSULATOR	
63					370565-001	WASHER, SHOULDER NYLON	
64					381072-001	IC, SG 2532	Z3
65					470124-022	RES, 1.8 OHMS, ±5%, 1/2W	R48
66					370341-004	WASHER, SHOULDER	
67					320354-003	CONNECTOR	J009
68					290231-000	LABEL, PCBA IDENTIFICATION	
69					470124- 4	RESISTOR SELECT ±5%, 1/2W	R29, R31, R72
70					470125-010	RESISTOR, 0.1 OHMS, 5%, 5W	R3, R4
71					300239-001	CAPACITOR, 100UF, 25V	C14
72					370036-405	SCREW, PAN HD PHIL REC LOCKING	
73					470124-002	RES, 10 OHMS, ±5%, 1/2W	R46

**LEGEND FOR TYPES OF CHANGES:**

- A = MANDATORY
- B = PHASE IN
- C = RECORD
- X = DOCUMENT REVISION LEVEL AT THE TIME CONFIGURATION IS ESTABLISHED

CONFIGURATION DESIGNATOR	CONFIG CONSISTS OF DRAWING NO'S	CONFIGURATIONS AFFECTED BY REV LEVELS (SEE LEGEND FOR CODING)																			
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
PCBA	261174			X	Z	B	B	A	A	B	C										
PCB	270829		X																		
EM	150637	X																			
SM	141174	X																			
SS	141175	X																			
SCHEM	121193			X	C	C	C														

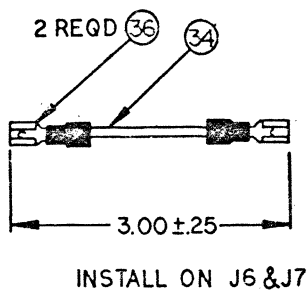
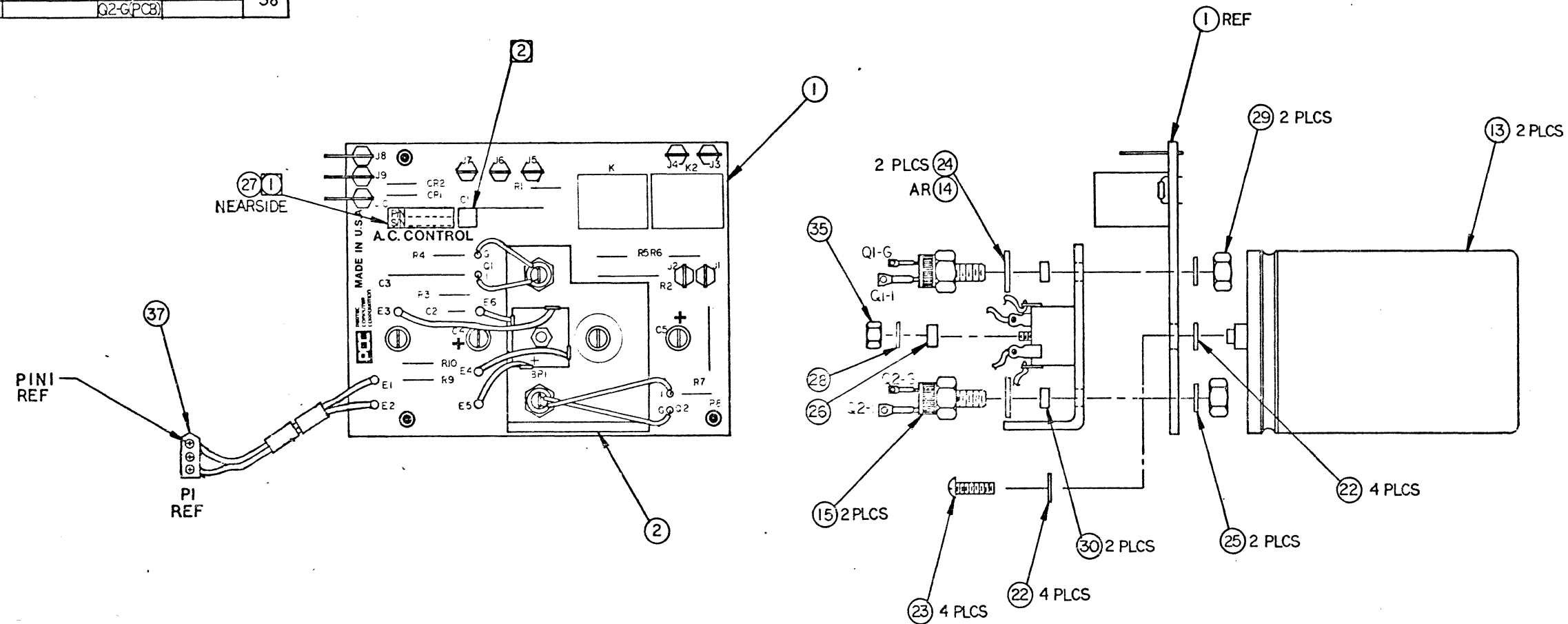
SYM	DESCRIPTION	DRFTG	DATE
01	RELEASE PER 109-79		5-31-79
02	ADDED ELECTRICAL AND WIRING PINS TO ML	MV	11/2/79
03	CODE 10 REL WITH CHANGES PER ENG INPUT REL PER DCO	MV	11/2/79
04	INCORP DCO 09830	ECO S.	11/2/79
05	INCORP DCO 10252	TECH A.	1/1/80
06	INCORP DCO 10729	TA	2/23/80
07	INCORP DCO 10877	TZ	1/1/80
08	INCORP DCO 11075	TECH P	2/5/80
09	INCORP DCO 11185	TC	1/24/80
10	CODE 10 REL W/C CHANGE PER DCO 10594	MV	2/5/80

**NOTE: UNLESS OTHERWISE SPECIFIED**

1. APPLY PCBA IDENTIFICATION LABEL (ITEM 27) APPROX. WHERE SHOWN.
2. MARK APPROPRIATE REV. NO. WHERE SHOWN PER SPECIFICATION 100034 (RUBBER STAMP).
3. REF PCBA WORKMANSHIP STANDARD 170450.

DRAWN				TC/MV	5/31/79	DISTRIBUTION CLASS				H	
CHECK				T. CLARK	5/24/79	<b>PERTEC BUSINESS SYSTEMS</b> <small>A Division of Perdec Computer Corporation</small>					
APPR				F.S.	5/31/79						
RELEASE				G. BRINK	5/31/79	TITLE					PCBA AC CONTROL
NEXT ASSY				211657	QTY	1	CODE IDENT. NO.				261174
MODEL				XL20	QTY	1	DC CODE				10
APPLICATION							SCALE				DO NOT SCALE DWG
							SHEET				1 OF 4

WIRE N.O.	FROM REF DES	WIRE TO REF DES	ITEM	ITEM	WIRE N.O.
1	E1	-	PI-O3		37
2	E2	-	PI-O1		
3	E3		BRI (-)		
4	E4		BRI (AC)		
5	E5		BRI (+)		34
6	E6		BRI (AC)		
7	J7	36	J6	36	
8	Q1-I		Q1-(PCB)		
9	Q2-I		Q2-(PCB)		
10	Q1-G		Q1-G(PCB)		38
11	Q2-G		Q2-G(PCB)		





PERTEC  
COMPUTER  
CORPORATION

MATERIAL LIST

Sheet 3 of 4

ML  
Dwg. No.

261174

Rev. 10

Item No.	Quantity Required					Part No.	Nomenclature or Description	Reference Designation
					-000			
1						270829-000	PCB, AC CONTROL	
2						242071-000	BRACKET, AC CONTROL	
3						460032-001	RELAY, 4PDT, 5VDC COIL	K1
4						460032-002	RELAY, 4PDT, 5VDC COIL	K2
5						470132-001	RESISTOR, 200 OHMS, 5%, 5W	R7
6						470132-003	RESISTOR, 800 OHMS, 5%, 5W	R2
7						470124-089	RESISTOR, 200 OHMS, 5%, 1/2W	R3
8						470124-003	RESISTOR, 100 OHMS, 5%, 1/2W	R4, R5, R6, R8
9						470124-084	RESISTOR, 24 OHMS, 5%, 1/2W	R1
10						300000-103	CAPACITOR, .01UF, 1KV	C2
11						300280-004	CAPACITOR, .1UF, 600V, 10%	C3
12						300280-003	CAPACITOR, .68UF, 200V	C1
13						300288-001	CAPACITOR, 3000UF, 250V	C4, C5
14					AR	700043-000	THERMAL COMPOUND	
15						330166-001	TRIAC, T6414D	Q1, Q2
16						330004-000	DIODE, 1N4002	CR1, CR2
17						330159-001	BRIDGE, VK648	BR1
18						320350-001	PCB, TERMINAL, RT ANGLE	J8, J9, J10



PERTEC  
COMPUTER  
CORPORATION

MATERIAL LIST

Sheet 4

ML  
Dwg. No.

261174

Rev. 10

Item No.	Quantity Required					Part No.	Nomenclature or Description	Reference Designation
					-000			
21						320349-001	PCB TERMINAL, MALE	J1 THRU J7
22						370006-700	WASHER, INT. TOOTH	
23						370197-705	SCREW, 10-32 X 5/16 LG SPN	
24						350154-002	INSULATOR, THERMAL KAPTON	
25								
26						370394-302	SPACER, 1/4" ROUND, ALUMINUM	
27						290231-000	LABEL, PCBA IDENTIFICATION	
28						370003-600	WASHER, LOCK SPLIT RING	
29						370027-300	NUT, LOCKING	
30						370701-001	INSULATOR, SPACER	
31						470124-090	RESISTOR, 160K OHMS, 5%, 1/2W	R9, R10
32								
34					AR	510140-013	WIRE, STRANDED, INSULATED (105°C, 300VRMS)	
35						370005-600	NUT, HEX MACH.	
36						320152-200	PUSH-ON TERMINAL FEMALE	
37						211854-000	CABLE AC, CONTROL	
38					AR	510140-001	WIRE, STRANDED, INSULATED (105°C, 300 VRMS)	

LEGEND FOR TYPES OF CHANGES:  
 A = MANDATORY  
 B = PHASE IN  
 C = RECORD  
 X = DOCUMENT REVISION LEVEL AT THE TIME CONFIGURATION IS ESTABLISHED

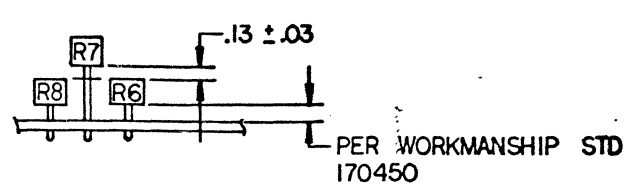
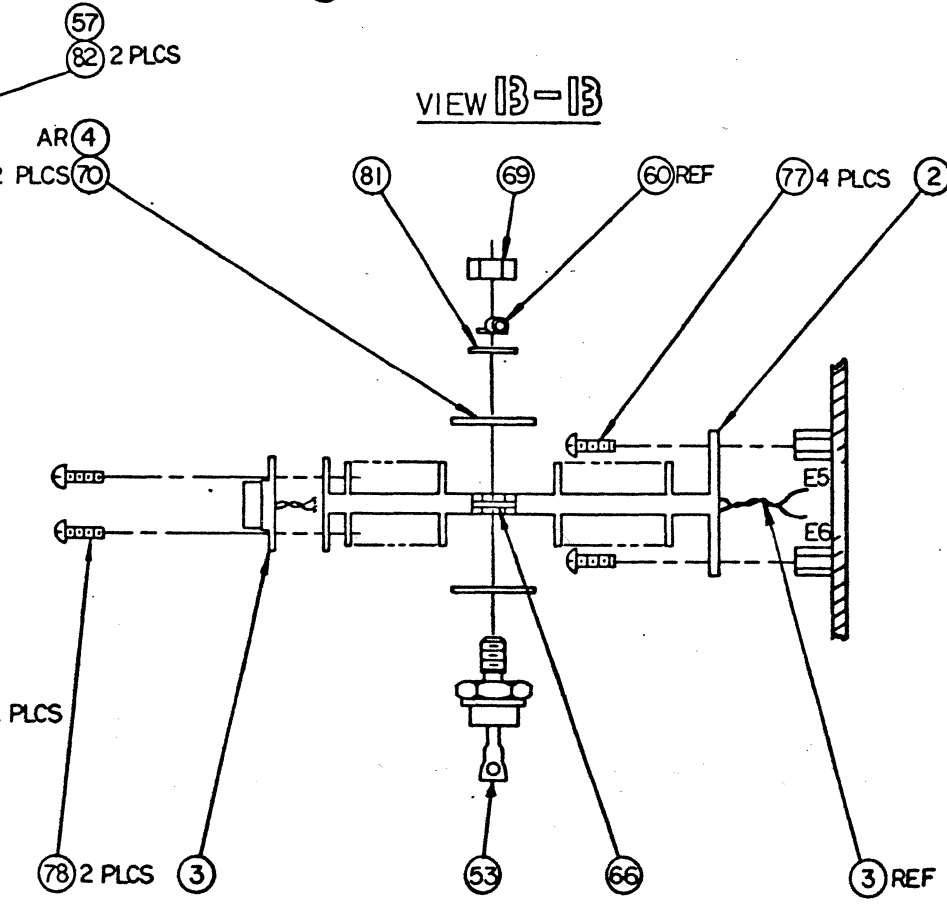
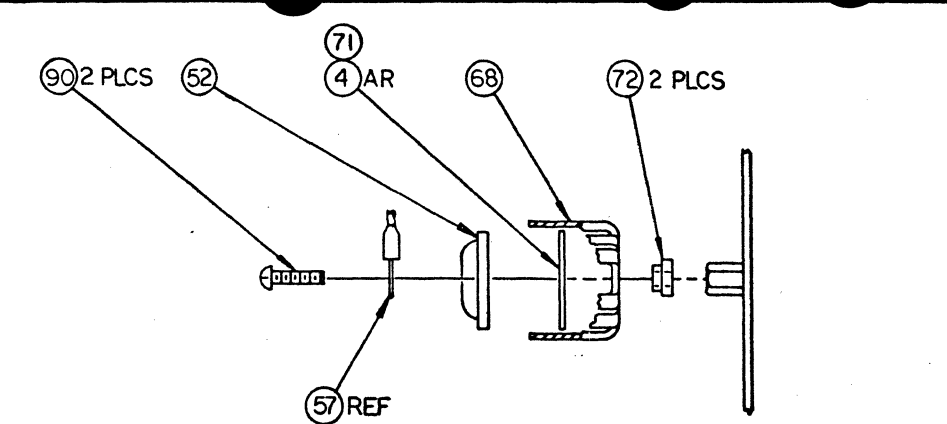
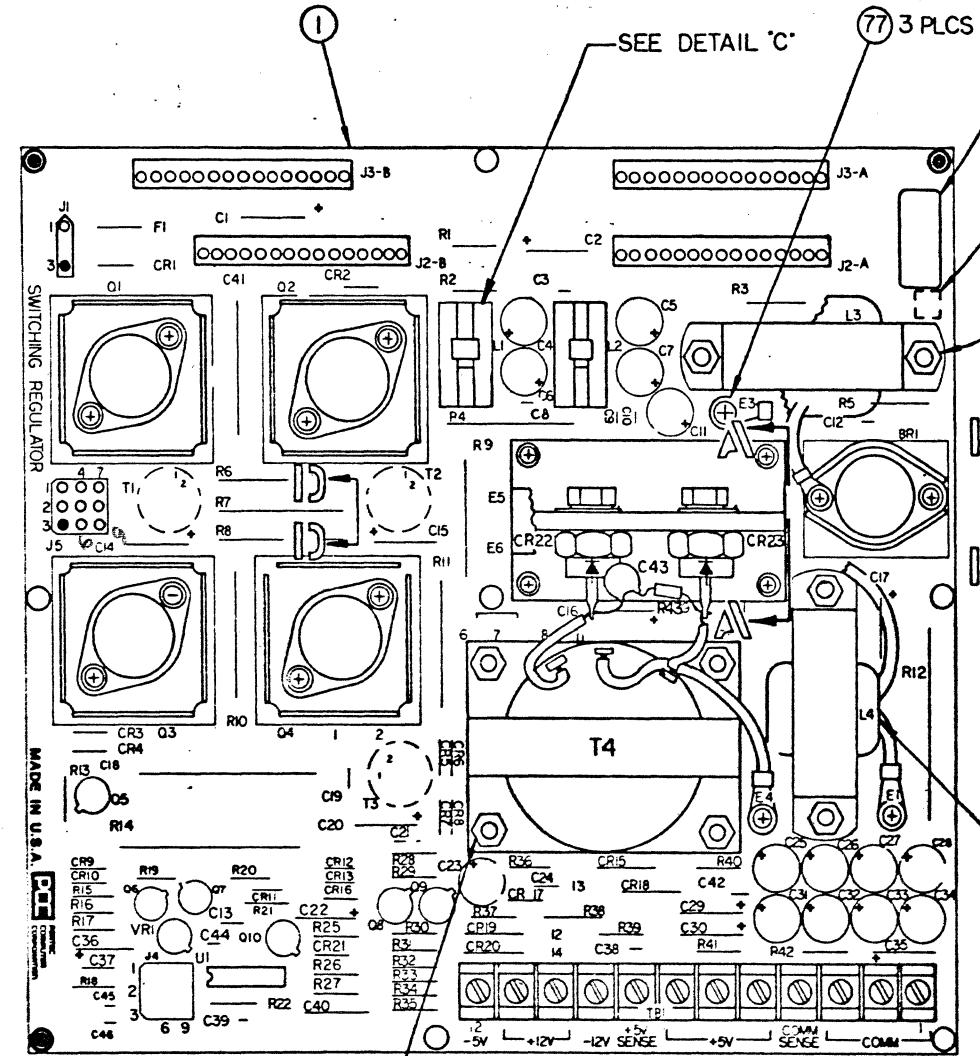
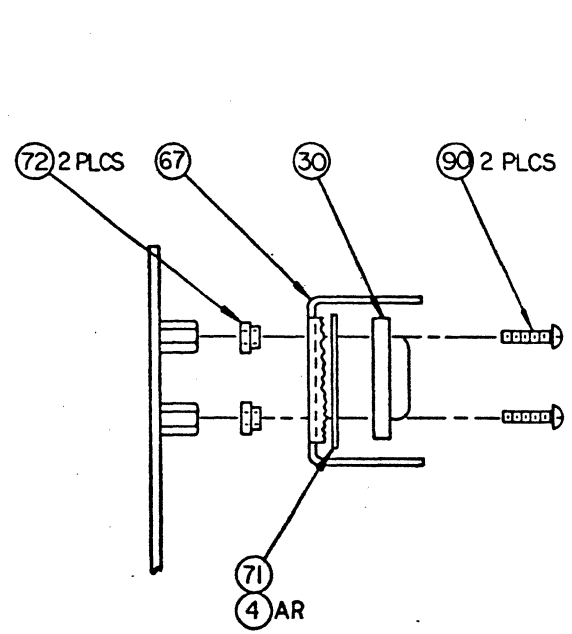
CONFIGURATION DESIGNATOR	CONFIG. CONSISTS OF DRAWING NO'S	CONFIGURATIONS AFFECTED BY REV LEVELS (SEE LEGEND FOR CODING)																			
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
1	PCBA 261175			X	C	B	B	A	B		A	A									
	PCB 270836	X	A																		
	EM 150644	X																			
	SM 141190	X																			
	SS 141191	X																			
2	PCBA 261175										X	A	A								
	PCB 270851	X																			
	EM 150657	X																			
	SM 141222	X																			
	SS 141221	X																			
SCHEM 121194						X	C														

SYM	DESCRIPTION	DRFTG	APPROVED	DATE
01	RELEASE PER DRO 107-79	MV	EB	5/31/78
02	ADDED PICTORIAL, ADDED PCC PART NOS TO ML	MV	EB	7/13/78
03	CODE 05 REL W/CHG PER ENG INPUT RELEASE PER DRO 572-79	Reb S	EB	12/2/79
04	INCORP DCO 10221	MV	EB	5/17/80
05	INCORP DCO 10347	MV	EB	7/13/80
06	SEE VARIATION DCO 10540	MV	EB	7/13/80
07	INCORP DCO 10881	MV	EB	7/13/80
08	INCORP DCO 10868	MV	EB	7/13/80
09	CODE 10 REL W/CHANGES PER DCO 10885	MV	EB	7/13/80
10	INCORP DCO 11698	BH	EB	5/11/81
11	INCORP DCO 11908	GB	EB	5/17/81

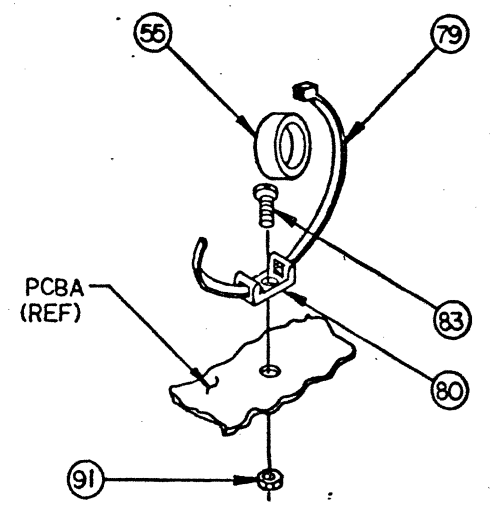
- NOTE: UNLESS OTHERWISE SPECIFIED
1. APPLY PCBA IDENTIFICATION LABEL ITEM 6 APPROX WHERE SHOWN.
  2. MARK APPROPRIATE REVISION NO. WHERE SHOWN PER SPEC 100034 (RUBBER STAMP)
  3. REFERENCE PCBA WORKMANSHIP STANDARD 170450.

FOR REWORK INSTRUCTION SEE SHEET 3

DRAWN		VEGA/TC	5-23-79	DISTRIBUTION CLASS		B
CHECK		TCLARK	5-24-79	BUSINESS SYSTEMS		
APPR		DSCHUMAKER	5-31-79	TITLE		
RELEASE		G BRINK	5-31-79	PCBA, SWITCHING REG		
NEXT ASSY		QTY	MODEL	QTY	CODE IDENT. NO.	SIZE
211659		1	XL 40		D	DWG NO
APPLICATION					261175	REV
					10	11
					SCALE	DO NOT SCALE DWG
						SHEET 1 OF 8



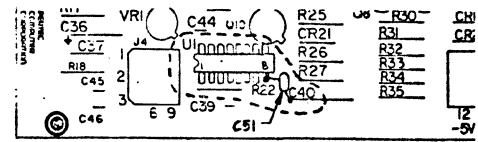
POSITION RESISTORS AS SHOWN  
TO AVOID INTERFERENCE WITH  
HEATSINKS



THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR DISCLOSED TO OTHERS OR USED FOR MANUFACTURING OR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN PERMISSION OF PERTEC COMPUTER CORPORATION.	SIZE	DWG NO	REV
	D	261175	11
DO NOT SCALE DWG		SHEET 2	

REV IO REWORK INSTRUCTIONS CONFIG 2

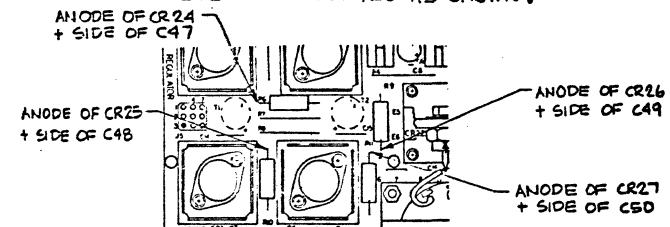
ADD C51 BETWEEN U1-PIN 8 AND C40 AS SHOWN:



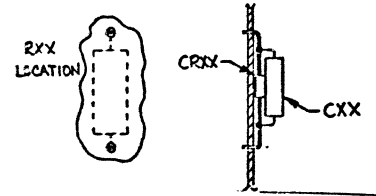
REV II REWORK INSTRUCTIONS CONFIG 2

REMOVE RESISTORS R6, R9, R10 AND R11

REPLACE RESISTORS WITH A DIODE, 1N4002 (330004-000) AND A CAPACITOR 6.8UF ±10%, 35V (300175-6B2) IN THE LOCATIONS NOTED AND MOUNTED AS SHOWN:



COMPONENT MOUNTING



D  
C  
B  
A





PCC PERTEC COMPUTER CORPORATION		MATERIAL LIST		Sheet 4 of 8	ML Dwg. No. 261175	Rev. 11
Item No.	Quantity Required	Part No.	Nomenclature or Description	Reference Designation		
1		1	270851-000	PCR, SWITCHING REGULATOR		
2		1	242070-000	HEATSINK, SWITCHING REG		
3		1	211857-000	SWITCH, THERMAL ASSY	S1	
4		AR	700043-000	COMPOUND, THERMAL		
5		1	381042-001	IC, SG3524	U1	
6		1	290231-000	LABEL, PCBA IDENTIFICATION		
7						
8		2	470124-002	RESISTOR, 10 OHMS, ±5%, 1/2W	R41,R42	
9		1	470124-083	RESISTOR, 9.1K, ±5%, 1/2W	R27	
10		1	470124-071	RESISTOR, 68 OHMS, ±5%, 1/2W	R2	
11		2	470124-044	RESISTOR, 33 OHMS, ±5%, 1/2W	R36,R39	
12		1	470124-072	RESISTOR, 680 OHMS, ±5%, 1/2W	R1	
13		4	470124-059	RESISTOR, 470 OHMS, ±5%, 1/2W	R15,R16,R17,R21	
14		3	470124-004	RESISTOR, 1K, ±5%, 1/2W	R13,R18,R19	
15		1	470124-018	RESISTOR, 1.5K, ±5%, 1/2W	R37	
16		1	470124-003	RESISTOR, 100 OHMS, ±5%, 1/2W	R20	
17		3	470124-032	RESISTOR, 2.2K, ±5%, 1/2W	R25,R32,R39	
18		2	470124-047	RESISTOR, 33K, ±5%, 1/2W	R31,R34	



PCC PERTEC COMPUTER CORPORATION		MATERIAL LIST		Sheet 5 of 8	ML Dwg. No. 261175	Rev. 11
Item No.	Quantity Required	Part No.	Nomenclature or Description	Reference Designation		
19		1	470124-073	RESISTOR, 6.8K, ±5%, 1/2W	R26	
20		1	470124-005	RESISTOR, 10K, ±5%, 1/2W	R30	
21		1	470120-004	RESISTOR, 1.0 OHMS, ±5%, 2W	R38	
22		1	470120-005	RESISTOR, 10 OHMS, ±5%, 2W	R43	
23		1	470120-002	RESISTOR, 33 OHMS, ±5%, 2W	R5	
24		1	470120-003	RESISTOR, 2K, ±5%, 2W	R3	
25		2	470125-006	RESISTOR, 10 OHMS, ±5%, 5W	R7,R8	
26		1	470126-001	RESISTOR, 30 OHMS, ±5%, 15W	R14	
27		2	470121-129	RESISTOR, 2.74K, 1%, 1/4W	R35,R40	
28		1	470125-004	RESISTOR, 3.9 OHMS, ±5%, 5W	R4	
29		3	500428-001	TRANSISTOR, 2N3724	Q5,Q7,Q9	
30		4	500423-001	TRANSISTOR, POWER, NPN, HIGH VOLTAGE	Q1,Q2,Q3,Q4	
31		2	500069-000	TRANSISTOR, 2N2905A	Q6,Q8	
32		1	500070-000	TRANSISTOR, 2N2222	Q10	
33		1	300275-003	CAP, 330PF, ±20%, 50V	C37	
34		2	330152-001	DIODE, UES1302	CR15,CR18	
35		1	300009-472	CAP, .0047UF, ±20%, 100V	C21	
36		7	300077-103	CAP, .01UF, +80%, -20% 100V	C3,C8,C9,C10,C24,C38,C42	
37		1	300280-001	CAP, .47UF, 400V	C41	



PCC PERTEC COMPUTER CORPORATION		MATERIAL LIST		Sheet 6 of 8	ML Dwg. No. 261175	Rev. 11
Item No.	Quantity Required	Part No.	Nomenclature or Description	Reference Designation		
38		1	300280-002	CAP, 2UF, 400V	C18	
39		1	300013-222	CAP, 2.2UF, ±20%, 35V	C36	
40		1	300282-001	CAP, 6200PF, ±10%, 1KV	C19	
41		3	300279-001	CAP, 390UF, 40V	C4,C6,C23	
42		2	300228-104	CAP, .1UF, ±20%, 100V	C13,C43	
43		3	300009-202	CAP, .002UF, ±20%, 100V	C12,C45,C46	
44		8	300279-002	CAP, 1200UF, 6.3V	C25, THRU C28,C31 THRU C34	
45		15	300175-682	CAP, 6.8UF, ±10%, 35V	C1,C2,C14 THRU C17,C20,C22,C29,C30,C35,C47 THRU C50	
46		1	300285-001	CAP, .33UF, ±10%, 50V	C40	
47		1	381043-001	VOLT REG 2.5V, 1% SG3503	VR1	
48		1	330008-000	DIODE, 1N4736	CR11	
49		10	330154-001	DIODE, 1N4448	CR5 THRU CR10,CR12,CR13,CR16,CR21	
50		5	330155-001	DIODE, 1N4936	CR1,CR2,CR3,CR4,CR17	
51		2	330156-001	DIODE, V332X	CR19,CR20	
52		1	330157-001	DIODE, R712X	BR1	
53		2	330158-001	DIODE, VSK4030	CR22,CR23	
54		3	300279-003	CAP, 180UF, ±10%, 50V	C5,C7,C11	



PCC PERTEC COMPUTER CORPORATION		MATERIAL LIST		Sheet 7 of 8	ML Dwg. No. 261175	Rev. 11
Item No.	Quantity Required	Part No.	Nomenclature or Description	Reference Designation		
55		2	490109-001	INDUCTOR, POWER	L1,L2	
56		3	490110-001	TRANSFORMER	T1,T2,T3	
57		1	211859-000	INDUCTOR ASSY	L3	
58		1	211869-000	TRANSFORMER SWITCHING ASSY	T4	
59		1	360046-001	FUSE, 10AMP	F1	
60		1	211858-000	INDUCTOR ASSY	L4	
61		1	320354-001	CONNECTOR	J1	
62		2	320354-002	CONNECTOR, PCB HEADER, POLARIZED	J4,J5	
63		4	320221-001	CONNECTOR	J2-A,J2-B,J3-A,J3B	
64		4	330004-000	DIODE, SILICON, RECTIFIER(IN4002)	CR24,CR25,CR26,CR27	
65		1	320351-001	TERMINAL BLOCK	TB1	
66		2	350112-001	WASHER, TEFLON		
67		4	540037-001	HEATSINK (T0-3)	(Q1 THRU Q4)	
68		1	540040-001	HEATSINK		
69		2	370541-000	NUT, HEX 1/4-28		
70		4	370602-000	WASHER, MICA		
71		5	350159-001	INSULATOR, MICA	(Q1 THRU Q4, BR1)	
72		10	370341-003	WASHER, SHOULDER	(Q1 THRU Q4, BR1)	
73		1	300009-102	CAP, CERAMIC DISK, 1000pf, 100V, ±80%, -20%	C51	



PCC PERTEC COMPUTER CORPORATION		MATERIAL LIST		Sheet 8 of 8	ML Dwg. No. 261175	Rev. 11
Item No.	Quantity Required	Part No.	Nomenclature or Description	Reference Designation		
74						
75		1	470004-100	RESISTOR, 10 OHMS, 1%, 1/4W	R28	
76		1	470121-190	RESISTOR, 48.7 OHMS, 1%, 1/4W	R29	
77		7	370036-606	SCREW, PAN HD PH		
78		2	370185-404	SCREW, PAN HD PH, SELF-TAPPING		
79		2	370016-300	TIE WRAP		
80		2	370702-001	BASE, TIE WRAP MOUNT		
81		2	370003-900	WASHER, LOCK SPLIT		
82		8	370027-600	NUT, LOCKING #6		
83		2	370036-404	SCREW, PAN HD PHILLIPS		
84						
85		1	470023-001	RESISTOR, 5 OHMS, ±10%, 10W	R12	
86						
87		1	470007-221	RESISTOR, 2.21, 1%, 1/4W	R22	
88		1	300294-001	CAP, .01UF, ±5%, 50V	C39	
89		1	300206-503	CAP, .05UF, 10V	C44	
90		10	370036-406	SCREW, PAN HD PH #4		
91		2	370027-400	NUT, LOCKING		

REVISIONS				
SYM	DESCRIPTION	DRFTG	APPROVED	DATE
01	RELEASE PER DRO		EB	8/22/79
02	CODE 10 REL WITHOUT CHANGES PER DCO 10486	DD	EB	4/8/80
03	INCORP DCO 10607	BM	EB	7/6/80

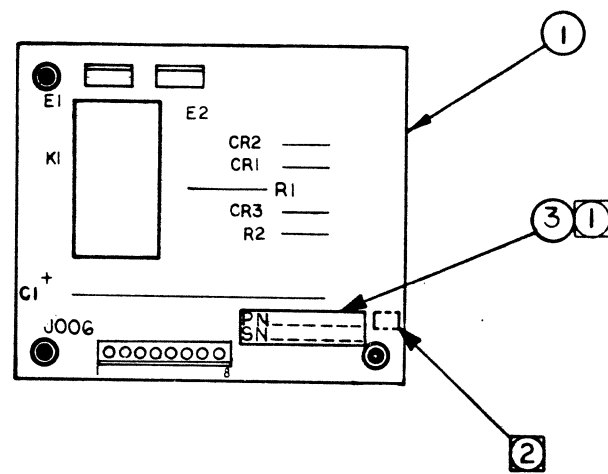
LEGEND FOR TYPES OF CHANGES:  
**A** = MANDATORY  
**B** = PHASE IN  
**C** = RECORD  
**X** = DOCUMENT REVISION LEVEL AT THE TIME CONFIGURATION IS ESTABLISHED

CONFIGURATION DESIGNATOR	CONFIG. CONSISTS OF DRAWING NO'S	CONFIGURATIONS AFFECTED BY REV LEVELS (SEE LEGEND FOR CODING)																			
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
I	PCBA 261178	X	C	B																	
	PCB 270816	X																			
	EM 150625	X																			
	SS 141153	X																			
	SM 141152	X																			
SCHM 121205	X																				

NOTE: UNLESS OTHERWISE SPECIFIED

- ① APPLY PCBA IDENTIFICATION LABEL (ITEM 3) APPROX WHERE SHOWN
- ② MARK APPROPRIATE REV NUMBER WHERE SHOWN PER SPEC 100034 (RUBBER STAMP).
3. REFERENCE PCBA WORKMANSHIP STANDARD 170450.

DRAWN	B. M... 8/14/79		TITLE	PCBA, AUX POWER SUPPLY
CHECK	J. M... 8/20/79		CODE IDENT NO	10
APPR	C. M... 8/14/79		SIZE	C
RELEASE	G. B... 7/22/79		DWG NO	261178
THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH SHALL NOT BE REPRODUCED OR TRANSFERRED TO OTHER DOCUMENTS OR DISCLOSED TO OTHERS OR USED FOR MANUFACTURING OR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN PERMISSION OF PERTEC COMPUTER CORPORATION.		REV	03	
APPLICATION NTP		SCALE	DO NOT SCALE DWG	SHEET 1 OF 3



SIZE	DWG NO	REV
<b>C</b>	261178	03
DO NOT SCALE DWG	SHEET	OF 2



MATERIAL LIST

Sheet 3 of 3

ML  
Dwg. No.

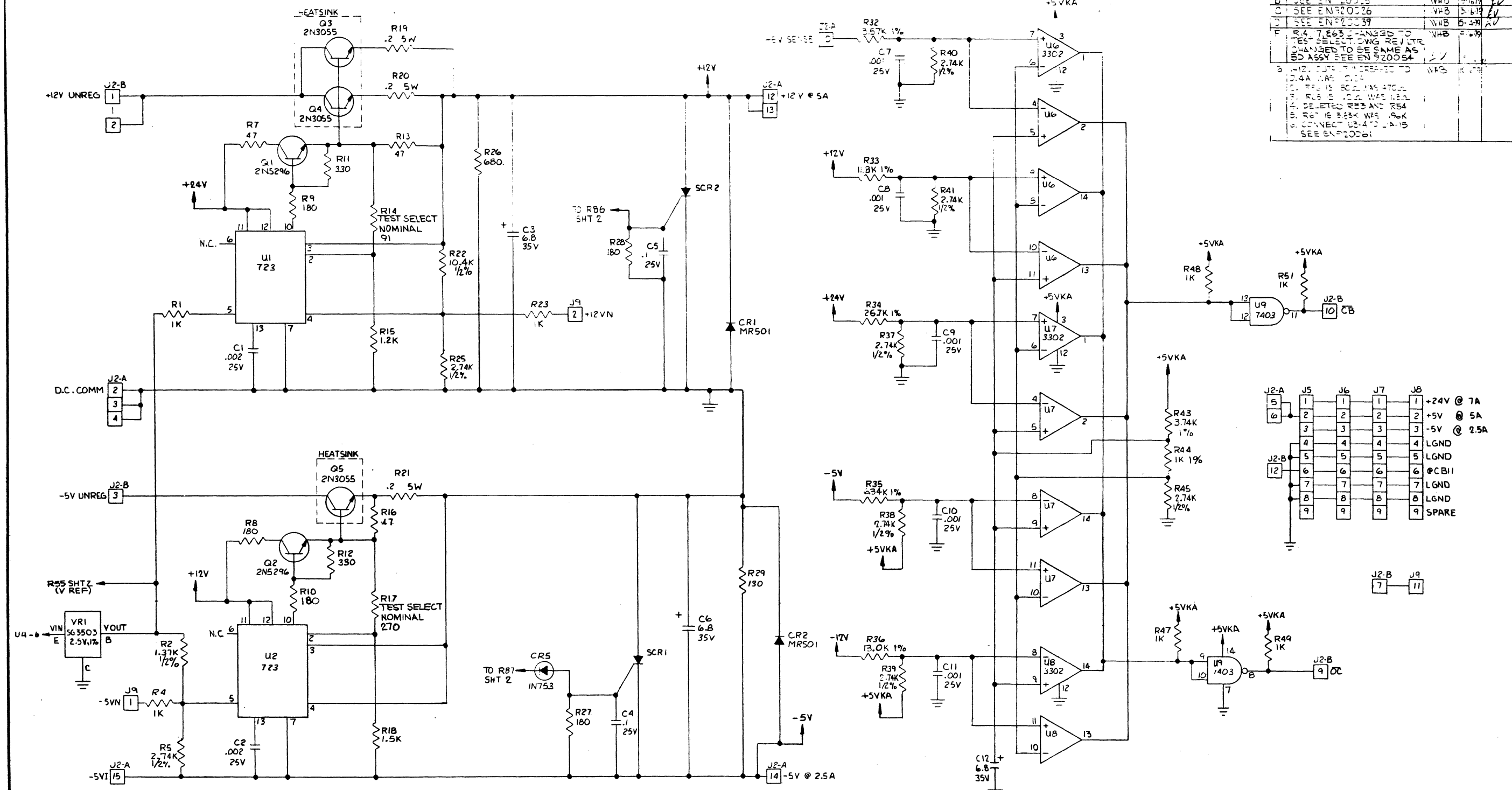
261178

Rev.

03

Item No.	Quantity Required					Part No.	Nomenclature or Description	Reference Designation
					-000			
1					1	270816-000	PCB	
2								
3					1	290231-000	LABEL, PCBA IDENTIFICATION	
4					1	460027-000	SOLID STATE RELAY	K1
5					2	330006-000	DIODE, IN4001	CR1,CR2
6					1	330088-000	DIODE, IN4732	CR3
7					1	300178-257	CAP, 250 UF, 30V	C1
8					1	470042-121	RES, 120 $\Omega$ , 2W, 5%	R1
9					1	470000-151	RES, 150 $\Omega$ , 1/4W, 10%	R2
10					1	320266-006	CONNECTOR, 8 PIN	J006
11					2	430208-000	TERMINAL, MALE SPECIAL	E1,E2

REVISIONS				
SYM	DESCRIPTION	REVISED BY	DATE	APPROVED
A	SEE EN 9200 B	YHB	5-79	✓
B	SEE EN 9200 25	YHB	3-79	✓
C	SEE EN 9200 26	YHB	3-79	✓
D	SEE EN 9200 39	YHB	5-79	✓
F	R4, 7, & 8 CHANGED TO TEST SELECT SWG RESULT CHANGED TO BE SAME AS 5D ASSY SEE EN 9200 54	YHB	5-79	✓
5	-12V OUTPUT CHANGED TO 2.4V WAS 0.4V	YHB	5-79	✓
6	R4 WAS 10K WAS 470K	YHB	5-79	✓
7	R5 IS 10K WAS 10K	YHB	5-79	✓
8	DELETED R23 AND R54	YHB	5-79	✓
9	R6 IS 10K WAS 10K	YHB	5-79	✓
10	CONNECT U3-4 TO U4-5 SEE EN 9200 61	YHB	5-79	✓

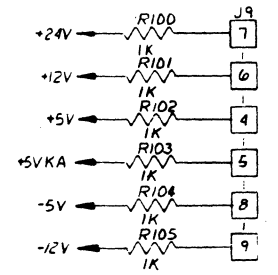
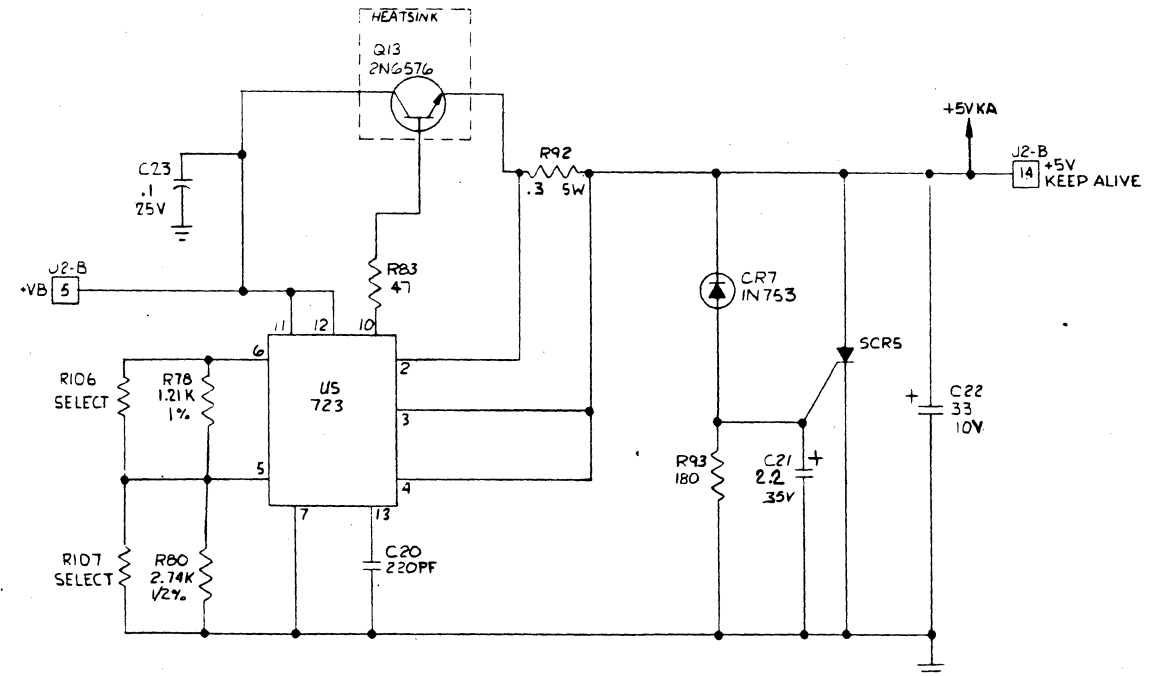
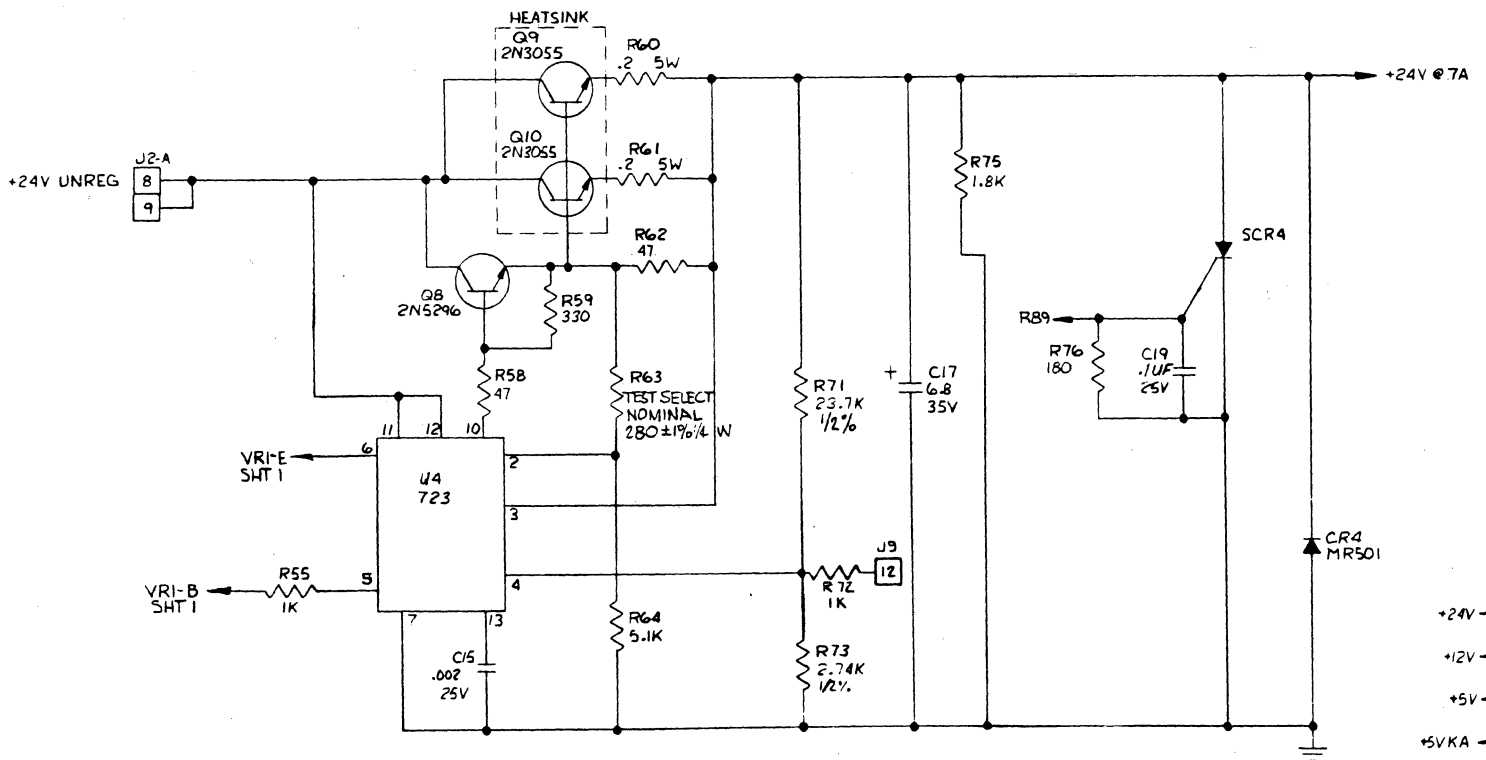
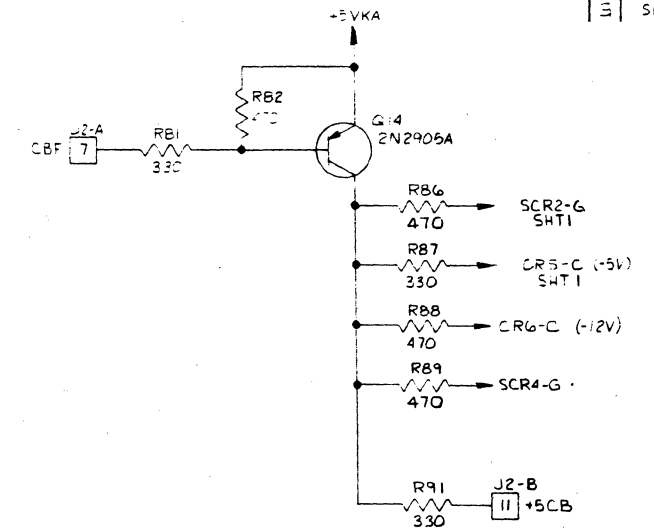
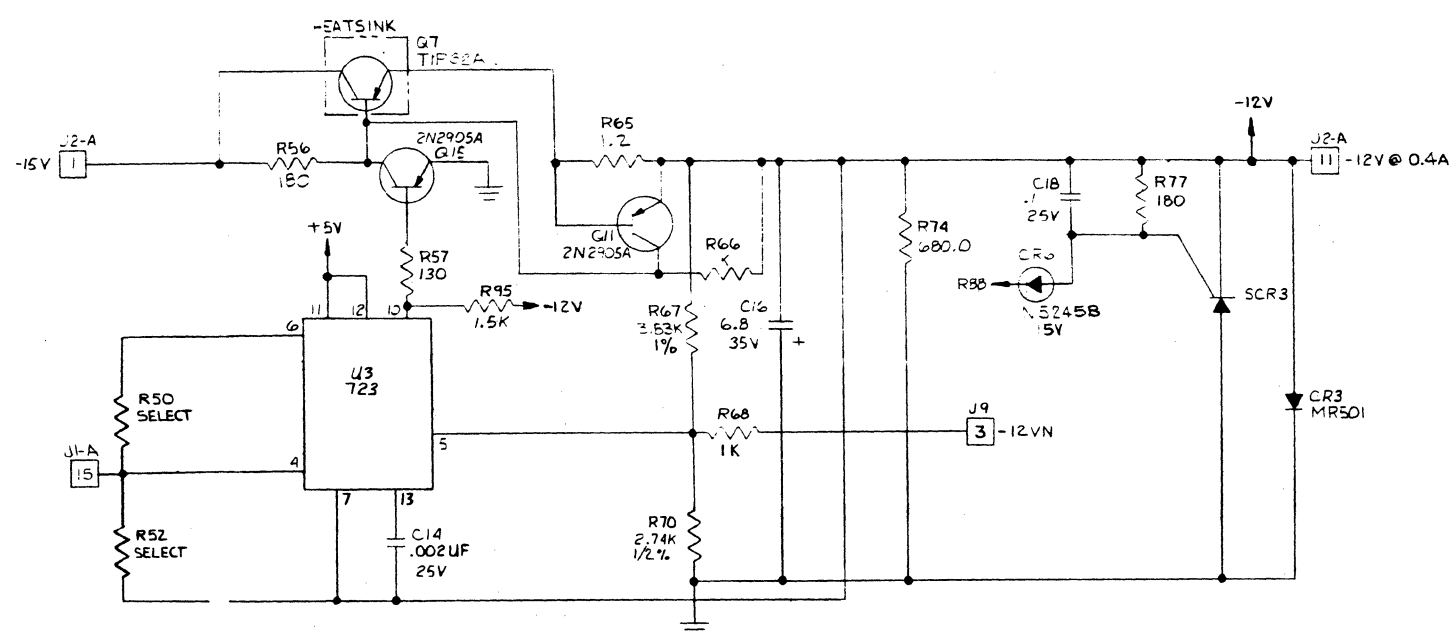


2 ALL CAPACITOR VALUES ARE IN MICROFARADS  
 1. ALL RESISTOR VALUES ARE IN OHMS ± 5% AND ARE 1/2 WATT  
 NOTES: UNLESS OTHERWISE SPECIFIED

FOR PARTS LIST SEE PL 36A-0004-01

MATERIAL		FINISH		CONVERSION EQUIPMENT CORPORATION	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS — DECIMALS — ANGLES ± 1/32 .01 ± .02 ± 1/2° .002 ± .010		● BREAK ALL SHARP EDGES .005 — .015 ● REMOVE ALL BURRS ● SURFACE ROUGHNESS 125/ALL OVER ● INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-B-1000 AND MIL-B-70321 UNLESS OTHERWISE SPECIFIED:		ANAHEIM, CALIFORNIA 92606	
QTY	USED ON	SCALE	SIZE	DWG NO.	REV
1	XL20	SCALE DRAWING	D	60D-0004-01	G
	NEXT ASSY			16 SHEET	1 OF 2

REVISIONS				
SYM	DESCRIPTION	REVISED BY	DATE	APPROVED
3	SEE SHEET 1 OF 2			



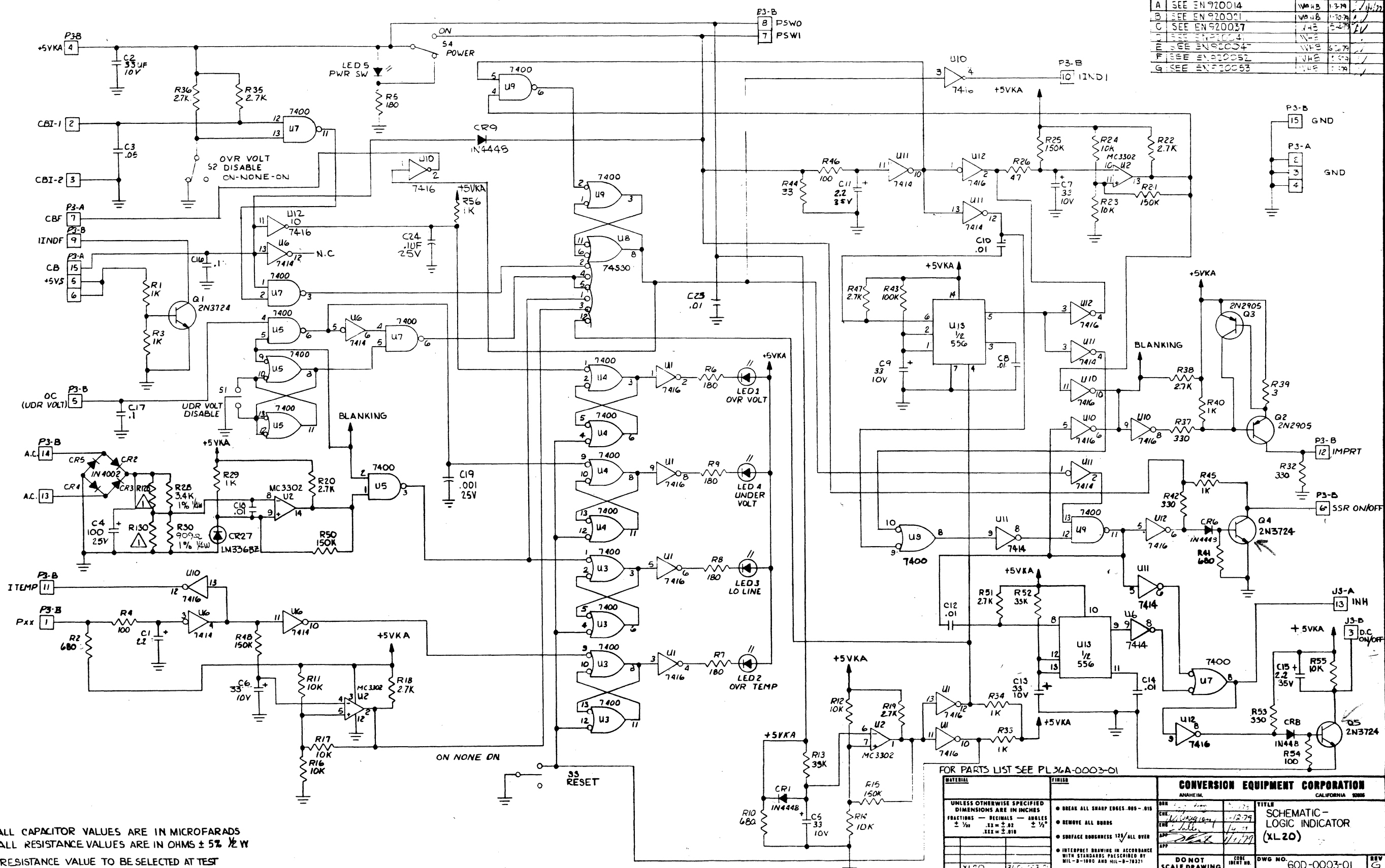
FOR PARTS LIST SEE PL 36A-0004-01

MATERIAL		FINISH		CONVERSION EQUIPMENT CORPORATION			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS — DECIMALS — ANGLES ± 1/32 ± .002 ± 1/2 ± .010		● BREAK ALL SHARP EDGES .005 — .015 ● REMOVE ALL BURRS ● SURFACE BURNISH 125/ALL OVER ● INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRACTICED BY MIL-B-1000 AND MIL-D-70321		ANAHEIM, CALIFORNIA 92606		TITLE	
QTY	USED ON	DATE	BY	APP	SCALE	DWG NO.	REV
						EOD-0004-01	G
					SCALE	SIZE D	WEIGHT
							LN SHEET 2 OF 2

SEE SHEET 1 OF 2  
NOTES: UNLESS OTHERWISE SPECIFIED

This drawing is Confidential and is not to be used Directly or Indirectly in any way detrimental to our interest

REVISIONS				
SYM	DESCRIPTION	REVISED BY	DATE	APPROVED
A	SEE EN 920014	WAB	1-3-79	[Signature]
B	SEE EN 920021	WAB	1-30-79	[Signature]
C	SEE EN 920037	WAB	5-2-79	[Signature]
D	SEE EN 920044	WAB	6-2-79	[Signature]
E	SEE EN 920047	WAB	6-2-79	[Signature]
F	SEE EN 920052	WAB	1-3-79	[Signature]
G	SEE EN 920053	WAB	1-3-79	[Signature]



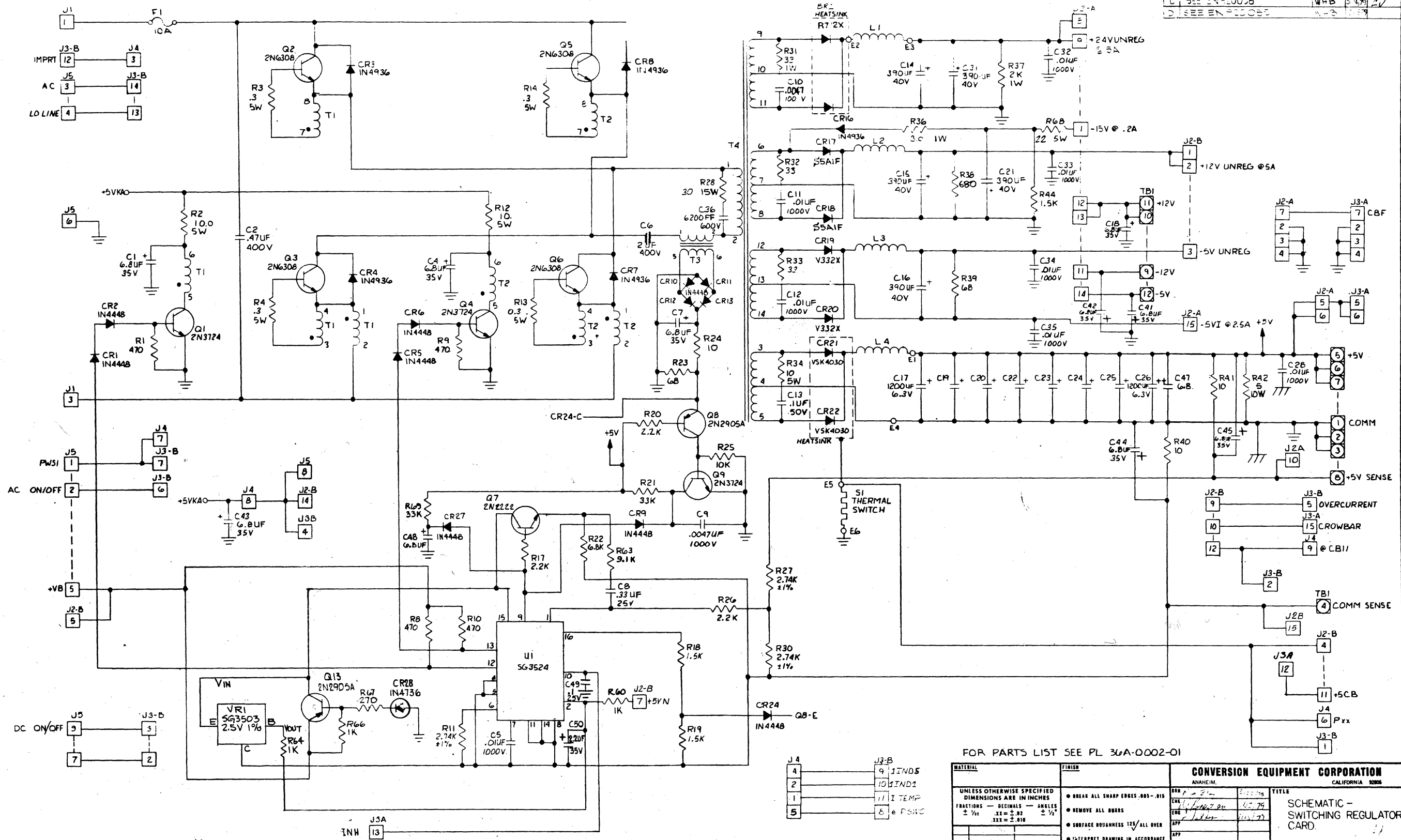
3. ALL CAPACITOR VALUES ARE IN MICROFARADS  
 2. ALL RESISTANCE VALUES ARE IN OHMS ± 5% 1/2 W  
 △ RESISTANCE VALUE TO BE SELECTED AT TEST  
 NOTES: UNLESS OTHERWISE SPECIFIED

FOR PARTS LIST SEE PL 3/A-0003-01

MATERIAL		FINISH		CONVERSION EQUIPMENT CORPORATION	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS - DECIMALS - ANGLES ± 1/32 ± .005 ± .010		● BREAK ALL SHARP EDGES .005 - .015 ● REMOVE ALL BURRS ● SURFACE BOUNDRNESS 125/ALL OVER ● INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-B-1000 AND MIL-D-10021		ANAHEIM, CALIFORNIA 92606	
QTY	USED ON	DRY	DATE	TITLE	REV
				SCHEMATIC-LOGIC INDICATOR (XL20)	
				DON'T SCALE DRAWING	
				SCALE	
				DWG NO. 60D-0003-01	
				SIZE D	
				WEIGHT - LB SHEET / OF /	

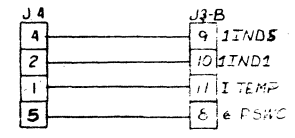
This Drawing is Confidential and is not to be used Directly or Indirectly in any way detrimental to our interest.

REVISIONS				
SYM	DESCRIPTION	REV. BY	DATE	APPROVED
A	SEE EN 90009	WFB	1-2-74	[Signature]
B	SEE EN 920027	WFB		[Signature]
C	SEE EN 920036	WFB	5-4-79	[Signature]
D	SEE EN 920050	WFB		[Signature]



1. ALL RESISTANCE VALUES ARE IN OHMS  $\pm 5\%$   $\frac{1}{2}$  W  
 NOTES: UNLESS OTHERWISE SPECIFIED

FOR PARTS LIST SEE PL 36A-0002-01

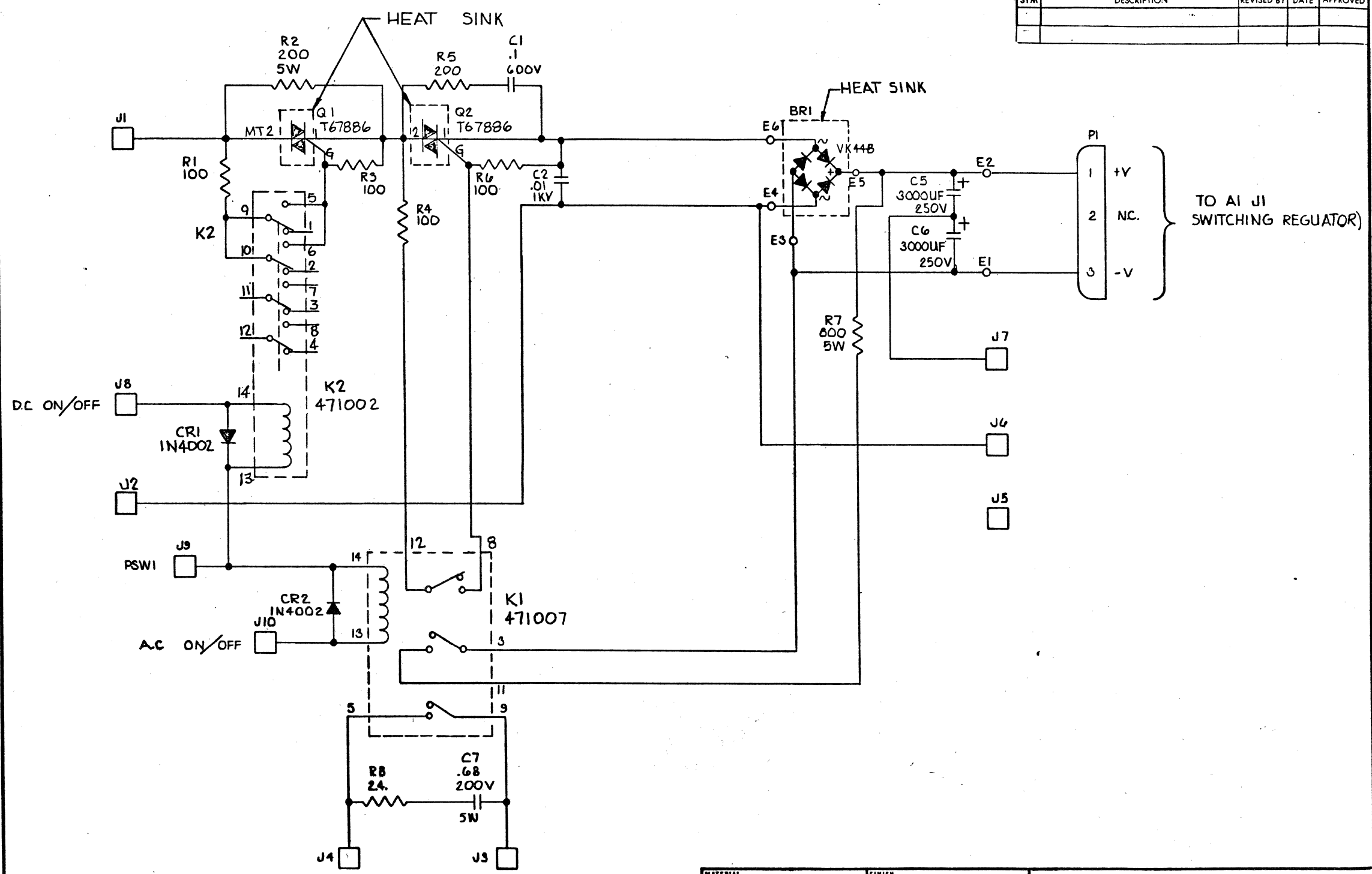


MATERIAL		FINISH		CONVERSION EQUIPMENT CORPORATION	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS - DECIMALS - ANGLES		● BREAK ALL SHARP EDGES .005-.015		ANAHEIM, CALIFORNIA 92606	
$\pm \frac{1}{32}$ .XX = $\pm .02$ $\pm \frac{1}{2}^\circ$ .XXX = $\pm .010$		● REMOVE ALL BURRS		DRN	DATE
● SURFACE ROUGHNESS 125/ALL OVER		● INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-B-1050 AND MIL-S-10321		CRK	REV
UNLESS OTHERWISE SPECIFIED:		DO NOT SCALE DRAWING		TITLE	
QTY	USED ON	SCALE	SIZE	DWG NO.	REV
1	KL2.0	SCALE	D	60D-0002-01	D
	NEXT ASSY	SCALE	SIZE	LB SHEET	OF 1

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REVISIONS				
SYM	DESCRIPTION	REVISED BY	DATE	APPROVED

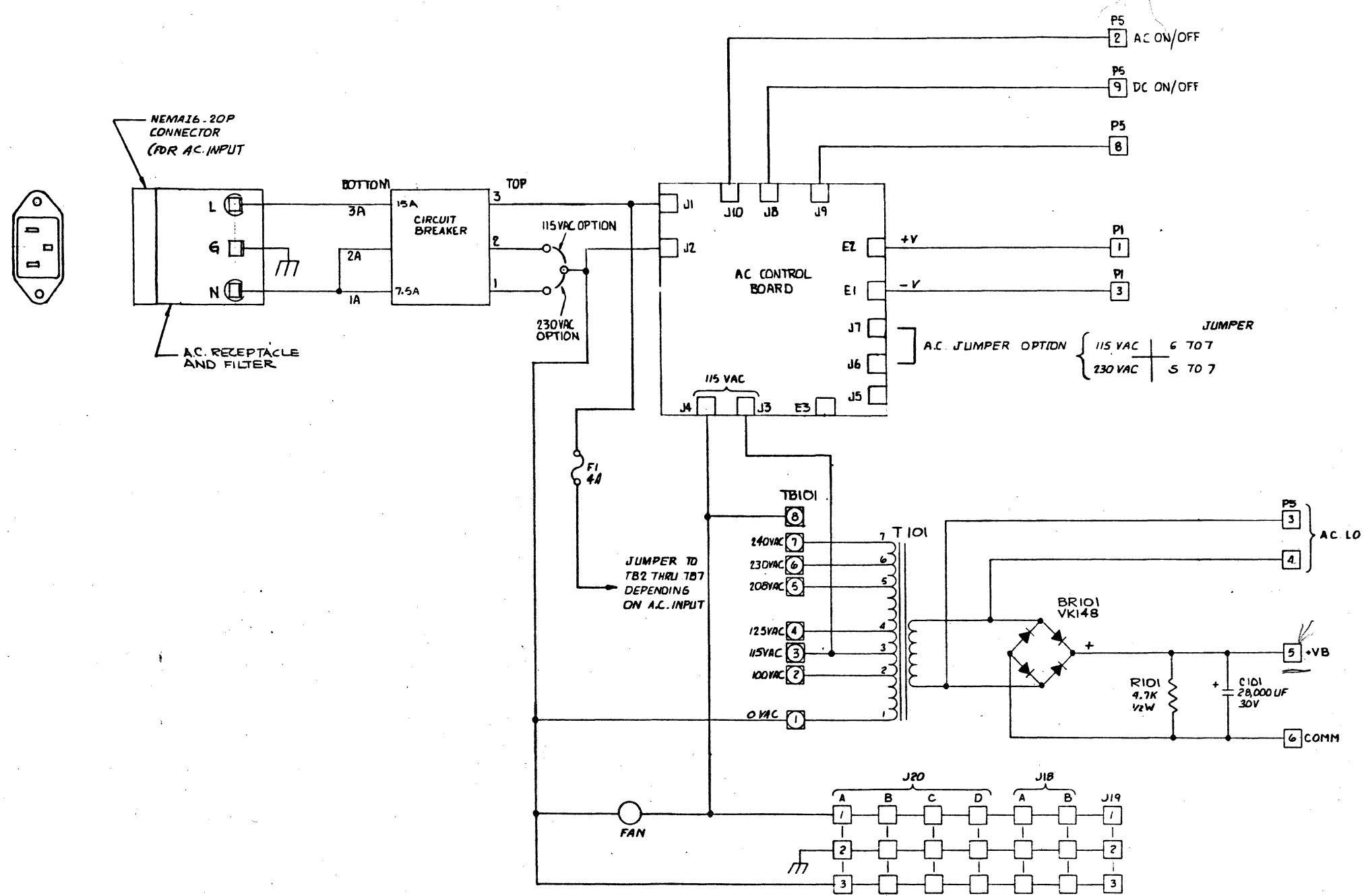


3. LAST REFERENCE DESIGNATION USED. R8, C7, CR2, Q2 BR1  
 2. ALL RESISTOR VALUES ARE IN OHMS ±5% 1/2W  
 1. ALL CAPACITOR VALUES ARE IN MICROFARADS  
 NOTES: UNLESS OTHERWISE SPECIFIED

MATERIAL		FINISH		CONVERSION EQUIPMENT CORPORATION	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS — DECIMALS — ANGLES ± 1/32 .XX = ± .02 ± 1/2° .XXX = ± .010		● BREAK ALL SHARP EDGES .005-.015 ● REMOVE ALL BURRS ● SURFACE ROUGHNESS 125/ALL OVER		ANAHEIM, CALIFORNIA 92806	
1	XL20	36C-0026-01	10-28-73	TITLE	
1	XL20	36C-0020-01	1-19-79	SCHEMATIC	
1	XL20	36C-0021-01	1-19-79	AC. CONTROL	
QTY	USED ON	NEXT ASSY	UNLESS OTHERWISE SPECIFIED:		
			SCALE NONE	SIZE C	WEIGHT LB SHEET / OF
			DO NOT SCALE DRAWING	DWG NO. 60C-0026-01	REV

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REVISIONS			
SYM	DESCRIPTION	REVISED BY	DATE
A	SEE EN920024	WHB	3-28-57
B	SEE EN920029	WHB	3-28-57
C	SEE EN920065 DELETED JUMPER FROM A.C. CONT BD-E3 TO CIG1+	1-8	11-22-57



NOTES: UNLESS OTHERWISE SPECIFIED

MATERIAL		FINISH		CONVERSION EQUIPMENT CORPORATION	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		<ul style="list-style-type: none"> <li>BREAK ALL SHARP EDGES .005-.010</li> <li>REMOVE ALL BURRS</li> <li>SURFACE ROUGHNESS 125/ALL OVER</li> <li>INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-B-1000 AND MIL-B-10001</li> </ul>		ANAHEIM CALIFORNIA 92606 TITLE: AL2D POWER SYSTEM CHASSIS WIRING DWG NO: 62-0006-01 SCALE: DRAWING SIZE: D	
QTY	USED ON	NEXT ASSY	UNLESS OTHERWISE SPECIFIED:	SCALE	REV
1	AL2D	50000000			

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