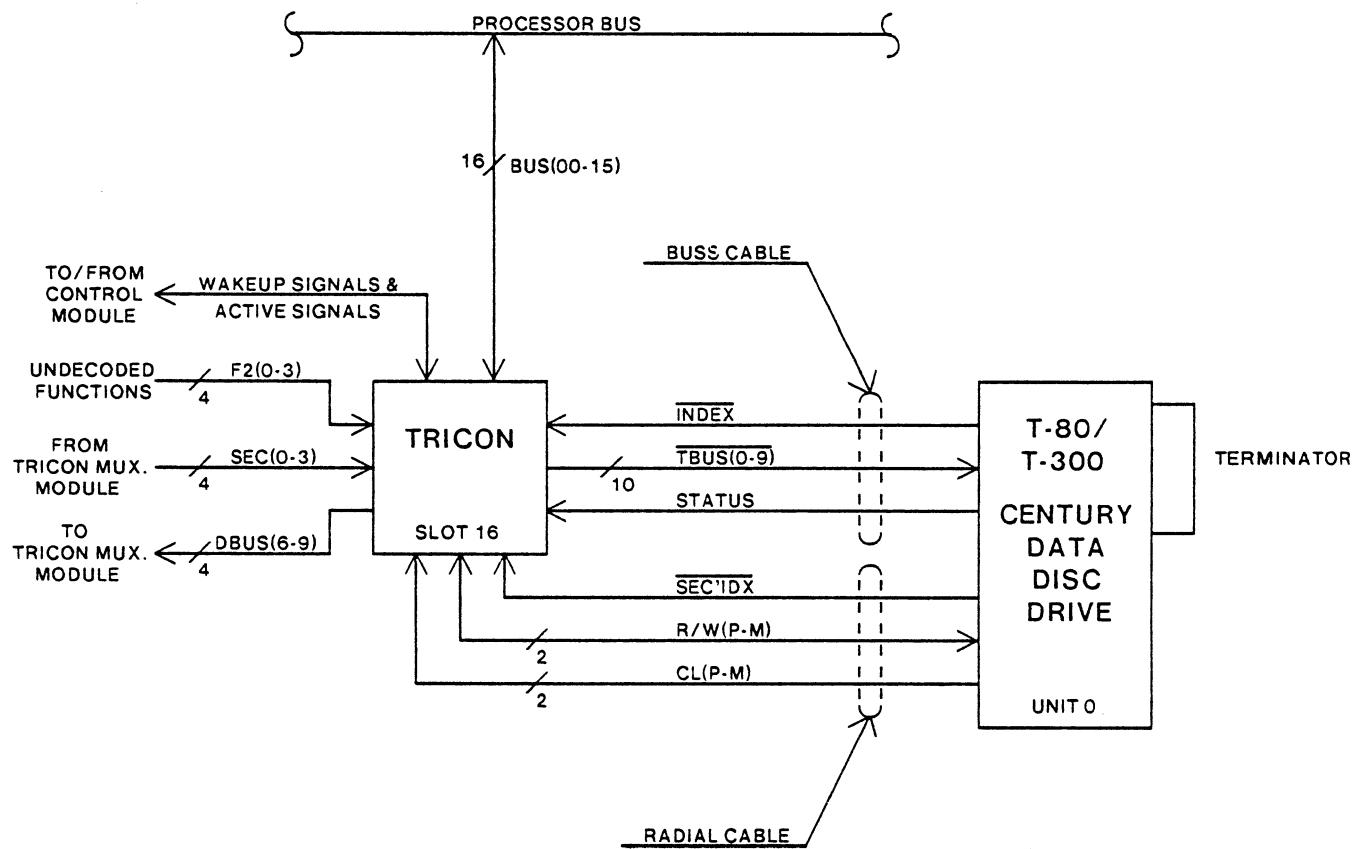


TRICON & TRICON MUX. DOCUMENTATION

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4. Tricon Mux General	Tricon & Tricon Mux Module Block Diagram Tricon Mux Assembly Kit Drawing (216638) Alto/Trident Disk System Configuration Diagram
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6. Tricon Mux Cables	Tricon Radial to Mux (Int.) Cable Drawing (216635) Radial Cable (Int.) Drawing (216636)
7. TFU	Tfs & Tfu Information
8. IFS	How To Use IFS Information
9. Tricon Manual	Trident Disk for the Alto

TRICON MODULE BLOCK DIAGRAM



NOTES: UNLESS OTHERWISE SPECIFIED

1. ITEMS 1, 2, & 3 SUPPLIED AS LOOSE ITEMS, TO BE INSTALLED IN ALTO II PROCESSOR CHASSIS TO INTERFACE WITH CALIFORNIA COMPUTER PRODUCTS INC TRIDENT DISC MODEL NO. T-80. FOR ASSEMBLY AND CABLING INSTRUCTIONS SEE FIGURE 1 AND 2.

- (2) TRIDENT DISC INTFC MODULE IS SHOWN INSTALLED IN LOCATION 18 FOR REFERENCE ONLY. ANY MODULE SLOTS FROM 15 THRU 20 MAY BE UTILIZED, HOWEVER IF ADDITIONAL TRIDENT DISC UNITS ARE TO BE ADDED IN THE FUTURE 2 ADJOINING SLOT LOCATIONS SHOULD BE RESERVED FOR TRIDENT MUX P.W. ASSY WHICH REQUIRES 2 SLOT LOCATIONS.
- (3) EXTERNAL CABLE ASSEMBLIES, ITEM 4 & 5 ARE SHOWN FOR REFERENCE ONLY AND ARE TO BE ORDERED SEPERATELY.
- (4) THE COMBINED LENGTH OF TRICON BUSSSED CABLE TO BE MAXIMUM OF 100 FT.
- (5) TERMINATOR MODULE, CALIFORNIA COMPUTER PORD INC, ANAHEIM, CALIF, P/N 12421-001, TO BE INSTALLED IN J2 OF DISC FILE UNIT.
- (6) PACKAGE 1 PAIR OF ITEM 10 PER EACH CABLE ASSY (ITEM 2 & 3).

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Title
ASSEMBLY, TRICON
KIT

Xerox Corporation
El Segundo, California

XEROX

216637

B

Sheet 2 Of 4

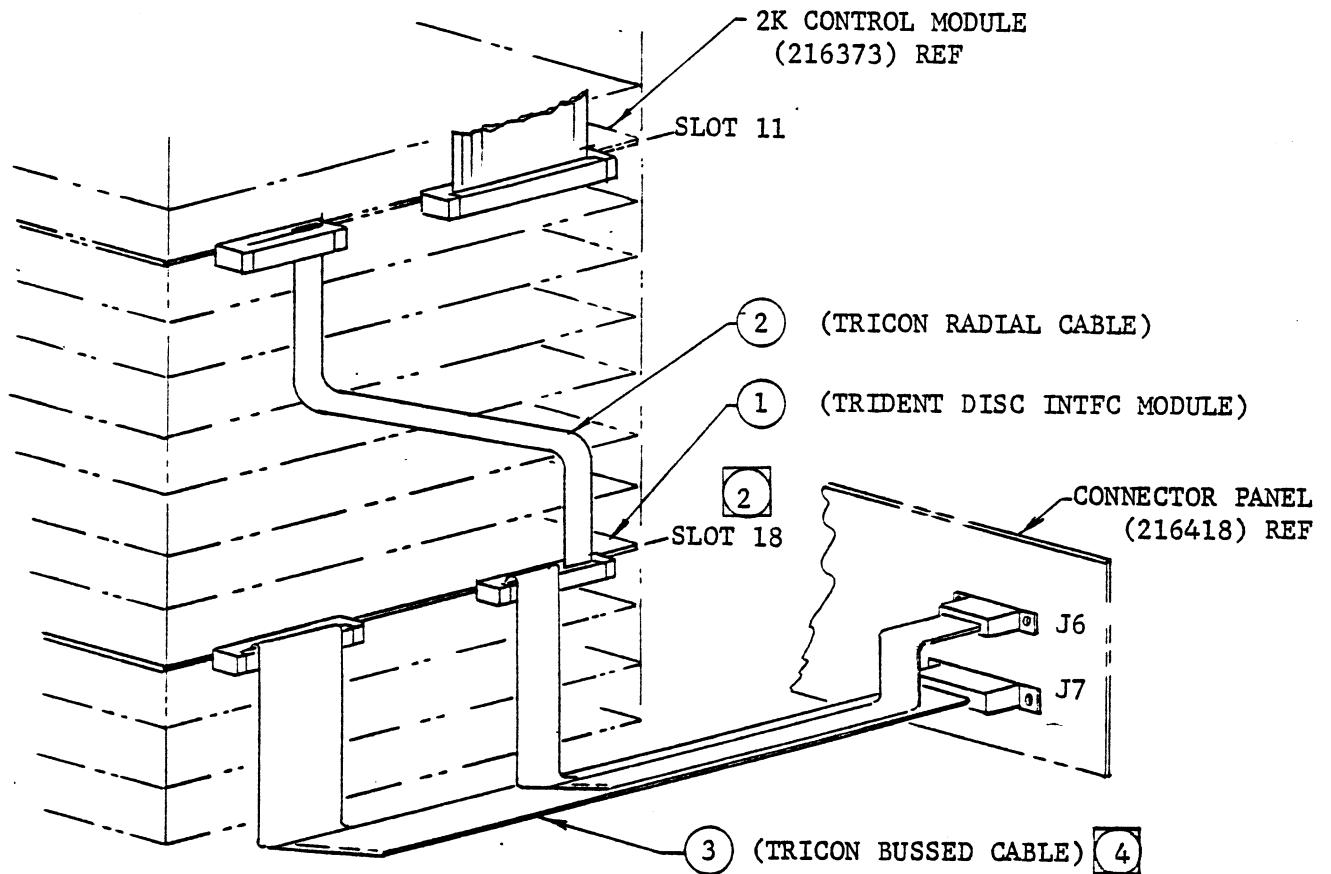


FIGURE 1

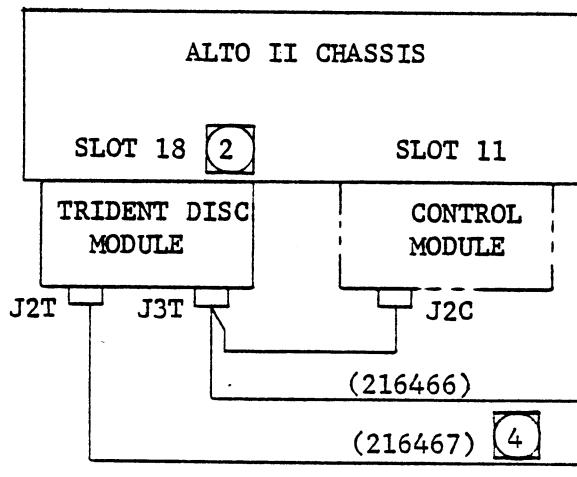
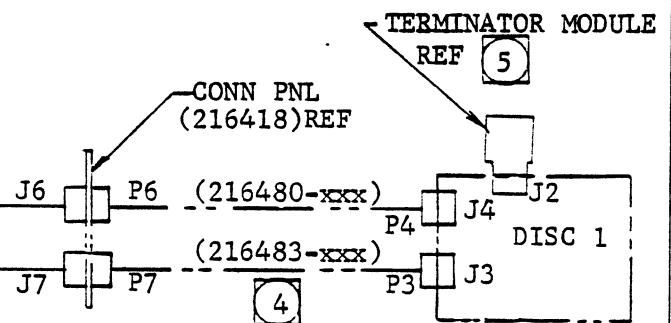


FIGURE 2
CABLING DIAGRAM



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TRICON KIT

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El Segundo, California

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216637

B

Sheet 3 Of 4

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El Segundo, California 90245
213 679-4511**

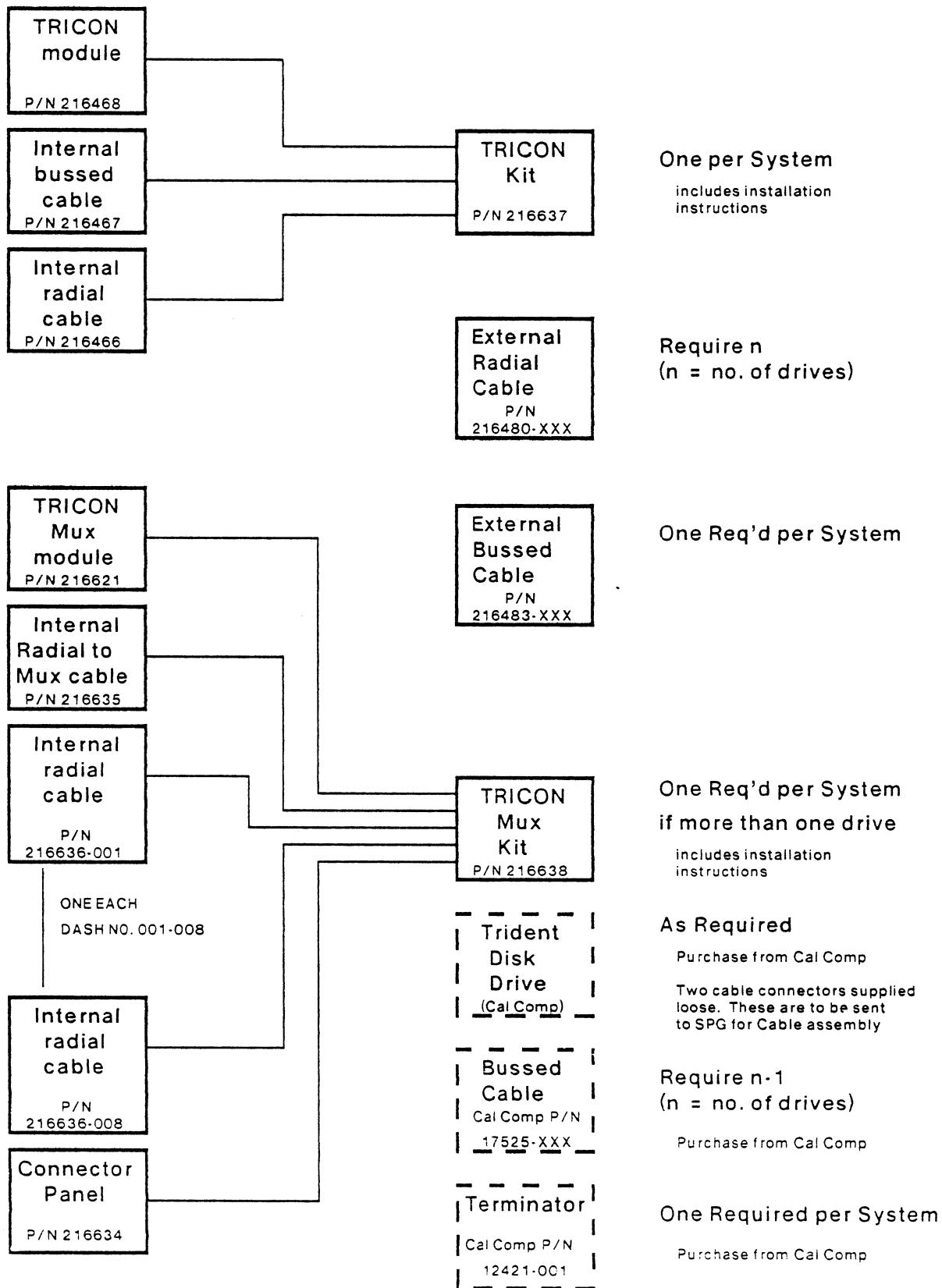
XEROX

Serial List

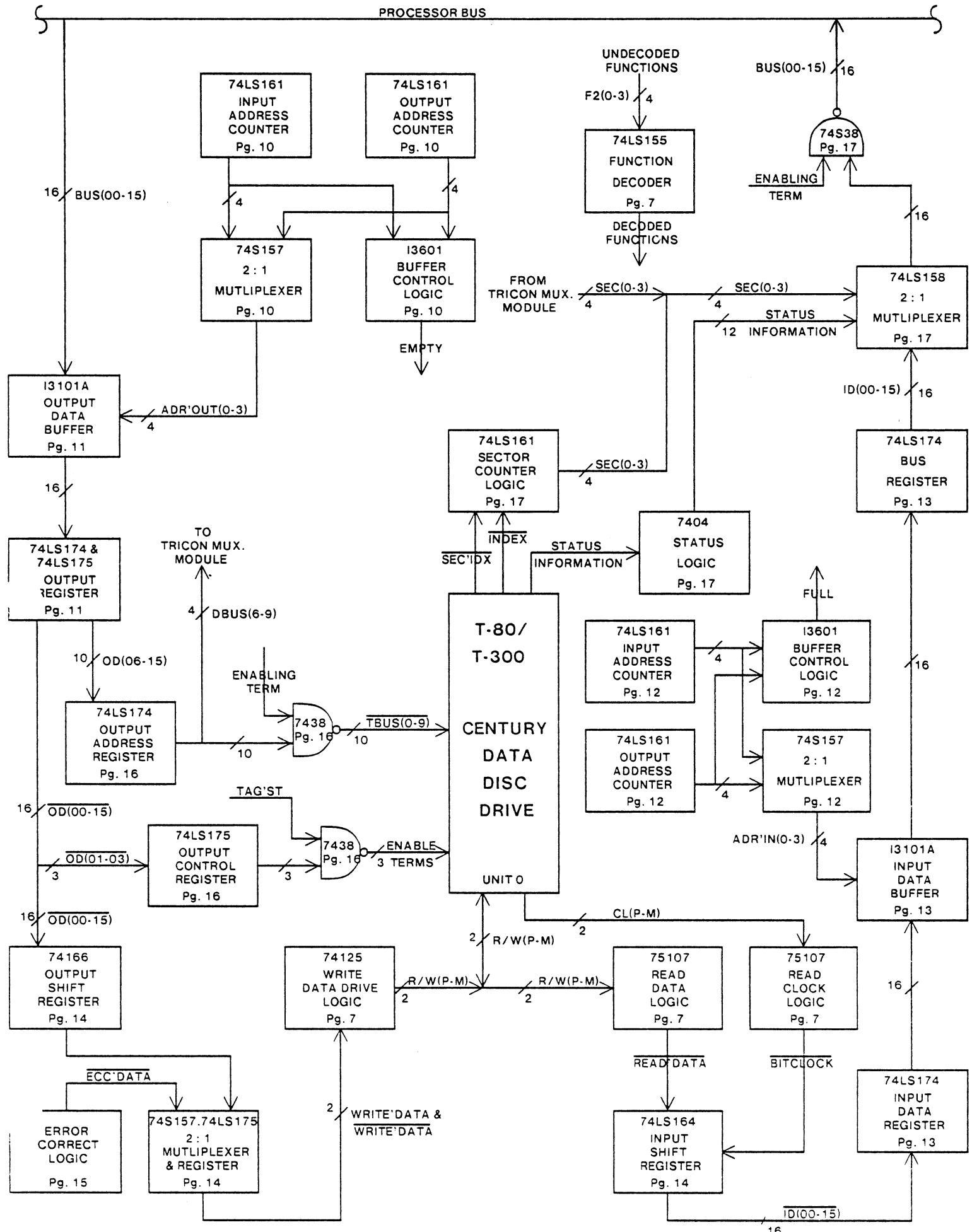
ML Drawing No
216637

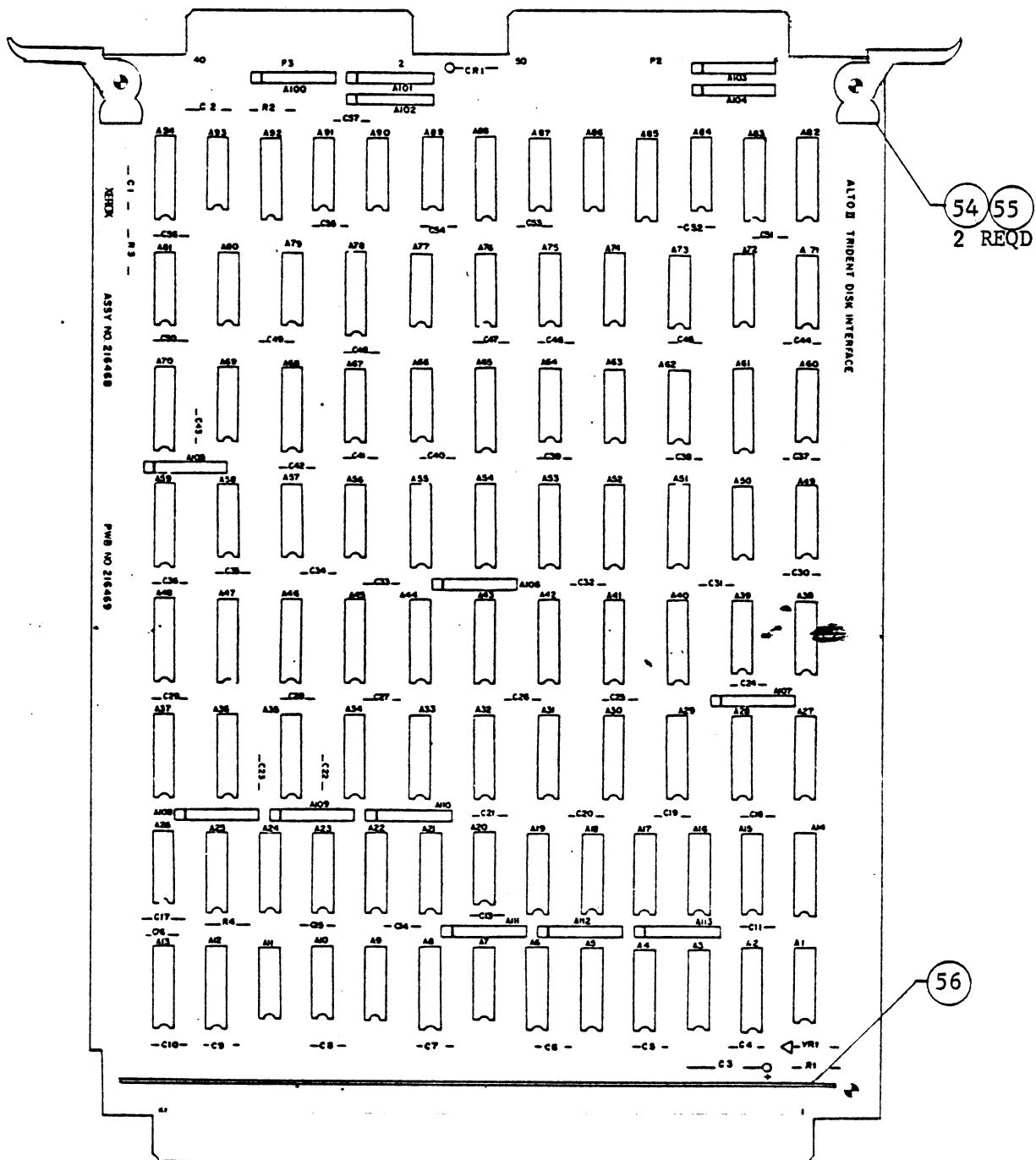
Rev.
B

ALTO/TRIDENT DISK SYSTEM CONFIGURATOR



TRICON MODULE





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Title ASSY, P.W.
TRIDENT DISC INTERFACE

Xerox Corporation
El Segundo, California

XEROX

216468

J

Sheet 4 Of

Material List

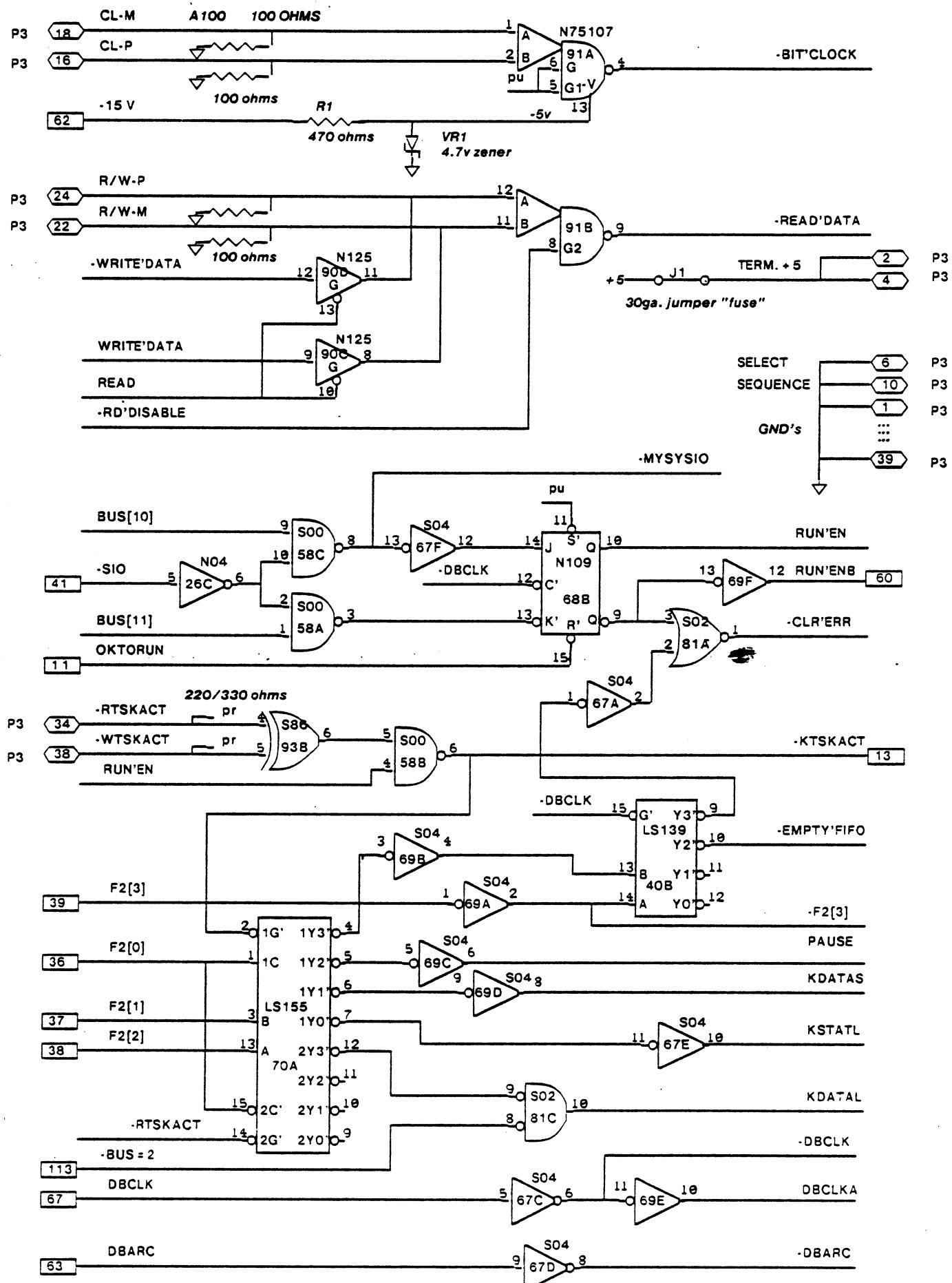
ML	Drawing No.	Rev.
	216468	J

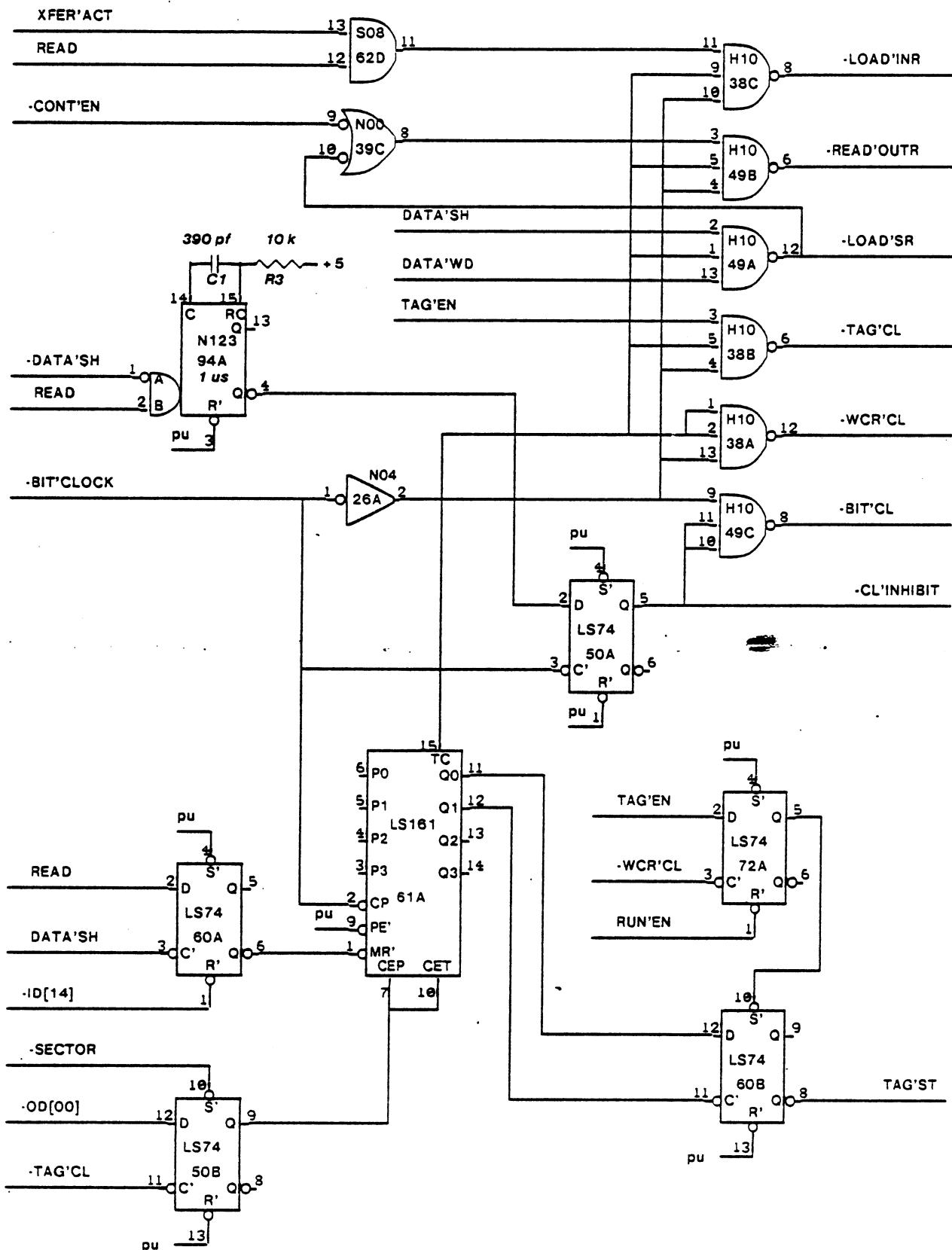
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		Model No.	Date	Sheet 5 of
216468	ASSEMBLY, PRINTED WIRING- TRIDENT DISC INTERFACE		2/21/77	
	Item No.	Drawing Title	Drawing No.	No. Req.
	1	Board, P. W. Trident Disc Interface	216469	1
	2	Microcircuit, LS00		1 A58
	3	7400		4 A39, 73, 79, 87
	4	74S02		1 A81
	5	74S00	168969	2 A20, 58
	6	7404		2 A1, 26
	7	74S04		2 A67, 69
	8	74S08		1 A62
	9	74H10		2 A38, 49
	10	7427		1 A66
	11	7432		1 A74
	12	7438		4 A63, 64, 75, 86
	13	74LS74		5 A 6 , 60, 72, 77, 80
	14	74S86	168970	2 A84, 93
	15	74109		3 A65, 68, 78
	16	74123		1 A94
	17	74125		1 A90
	18	74LS139		1 A40
	19	74LS155	182521	1 A70
	20	74LS161	182526	6 A13, 14, 27, 37, 59, 61
	21	74163		4 A29, 30, 31, 32
	22	74166		2 A41, 42
	23			
	24			
	25	74LS174		10 A16, 21, 23, 44, 25, 45, 46, 52, 53, 88
	26	74LS175		6 A17, 18, 19, 51, 83, 92
	27	74S157		4 A15, 47, 82, 85
	28	74279		1 A55
	29	82S126		2 A28, 48
	30	S82S23		1 A54
	31	N8160		1 A43
	32	Microcircuit, N75107		1 A91
	33	Microcircuit,		

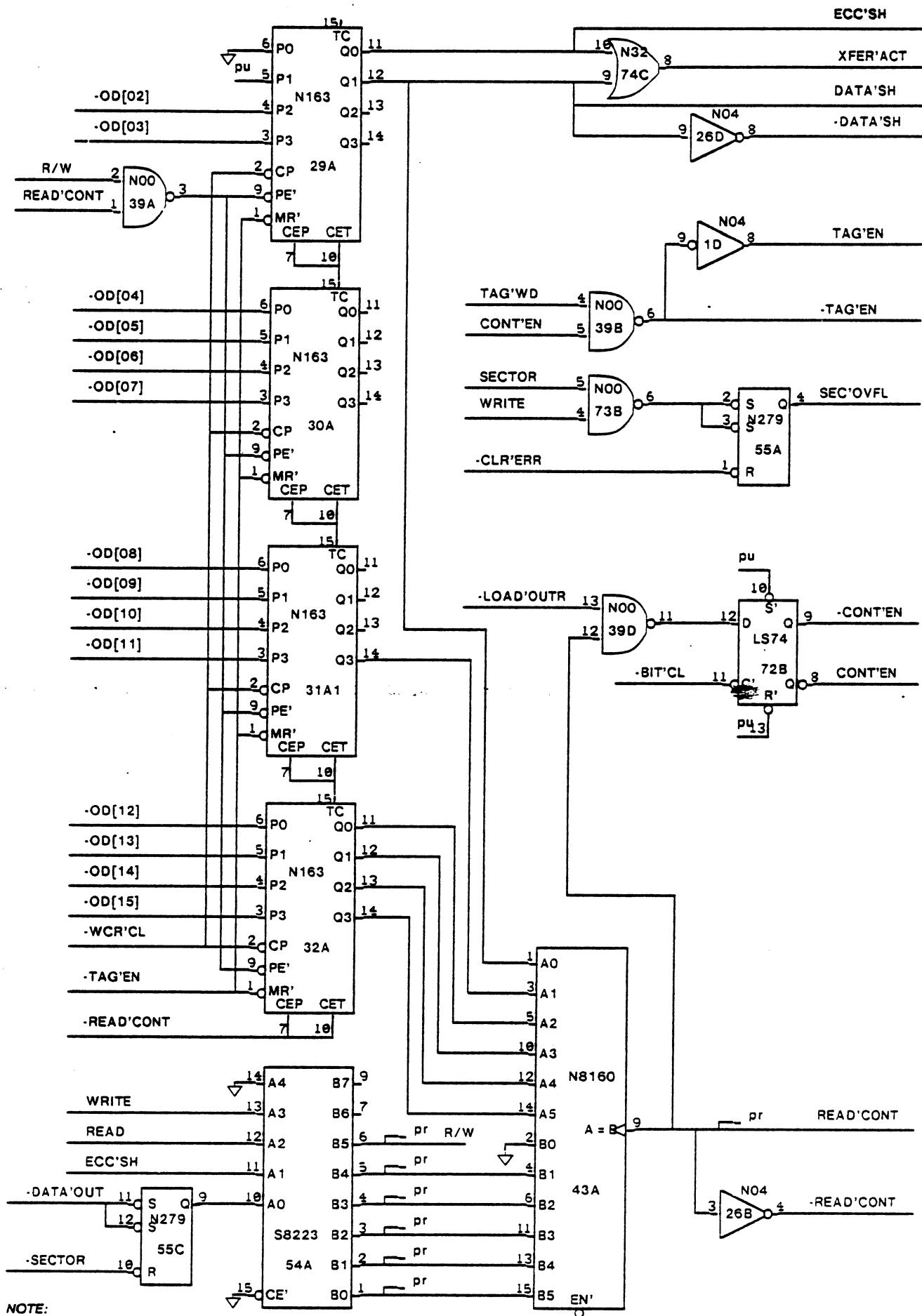
Material List

ML	Drawing No. 216468	Rev. J
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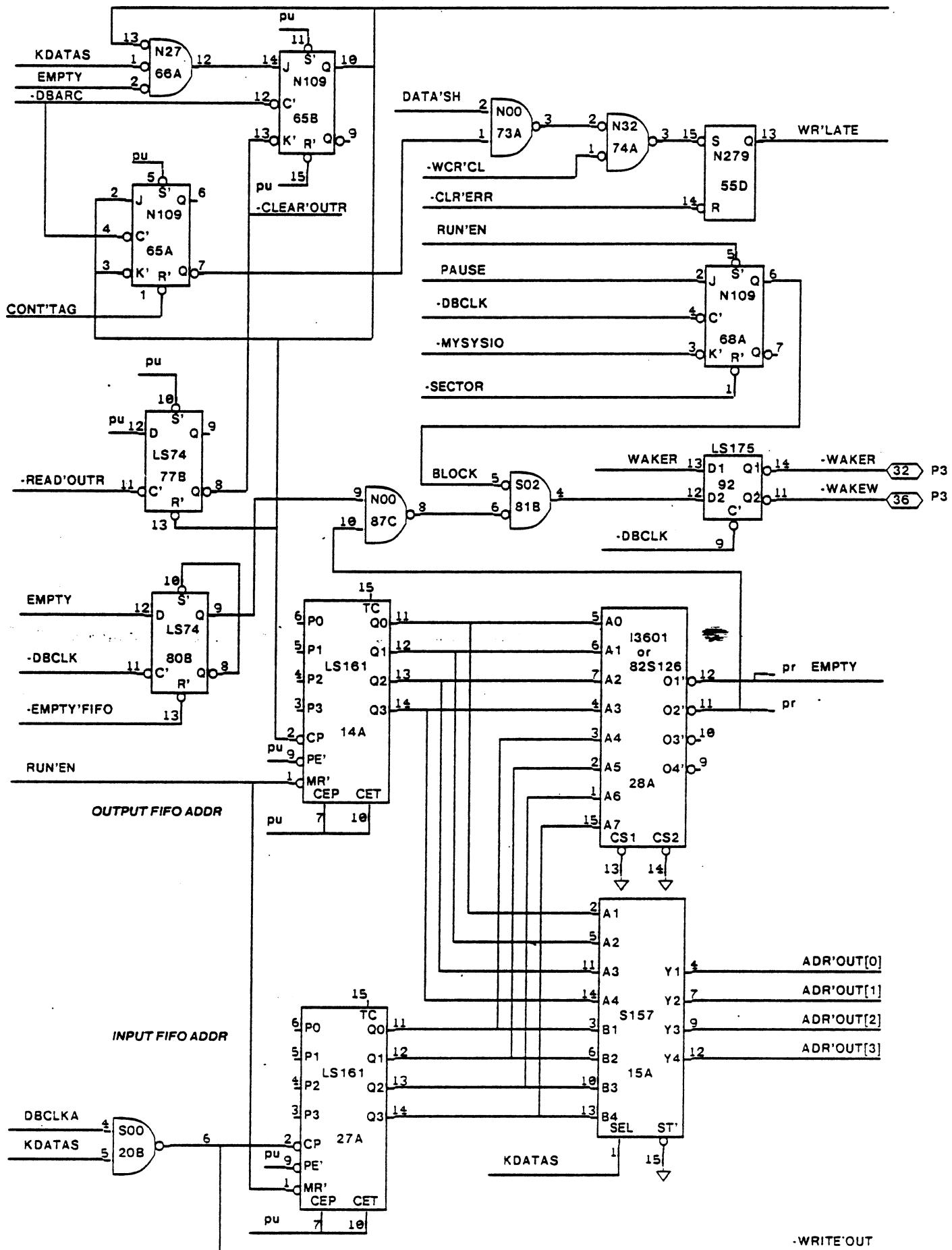
Drawing No. F 216468	Drawing Title ASSEMBLY, PRINTED WIRING- TRIDENT DISC INTERFACE	These drawings and specifications, and the data contained there-in, are the exclusive property of Xerox Corporation and/or Rank Xerox, Ltd. issued in strict confidence and shall not, without the prior written permission of Xerox Corporation or Rank Xerox, Ltd., be reproduced, copied or used for any purpose whatsoever, except the manufacture of articles for Xerox Corporation or Rank Xerox, Ltd.		
		Model No.	Date 2/21/77	Sheet 6 Of
Item No.	Drawing Title	Drawing No.	No. Req.	Remarks
34	Microcircuit, I3101A		9	A2, 3, 4, 5, 6, 33, 34, 35, 36
35	Microcircuit, 74LS164		5	A56, 57, 71, 76, 89
36	Microcircuit, 74S38		4	A7, 9, 10, 11
37	Resistor, Film, $150\text{n}\pm5\%$, 1/4W	116447-151	1	R4
38	Resistor, Film, $470\text{n}\pm5\%$, 1/4W	116447-471	1	R1
39	Resistor, Film, $20\text{K}\pm5\%$, 1/4W	116447-203	1	R2
40	Resistor, Film, $10\text{K}\pm5\%$, 1/4W	116447-103	1	R3
41	Resistor, Network, $1\text{K}\pm2.5\%$, .125W	188600-007	9	A105 Thru A113
42	Resistor, Network, $100\text{n}\pm2.5\%$, .16W	188600-006	1	A100
43	Resistor, Network, $220\text{n}\pm2.5\%$, .16W	188600-003	2	A102, A104
44	Resistor, Network, $330\text{n}\pm2.5\%$, .16W		2	A101, CTS A103, (750-81-R330)
45				
46	Capacitor, Tant., $22\text{nF}\pm20\%$, -15V	187720-005	1	C5
47	Capacitor, Ceramic, $.01\text{nF}$, 50V	188483-001	53	C4 Thru 16, 18 Thru 57
48	Capacitor, Mica, $390\text{ pF}\pm5\%$, 100V	191175-032	1	C1
49	Capacitor, 0 pF		REF	C2
50	Capacitor, Mica, $330\text{ pF}\pm5\%$, 100V	191175-031	1	C17
51				
52	Diode, Zener, 400 MW, 4.7 V, $\pm10\%$ IN750		1	VR1
53				
54	Rivet, Blind - Pull Thru	156111-005	2	
55	Extractor, Module	216250	2	
56	Stiffener	216242	1	
57	Socket, Microcircuit		38	Augat #514-AG10D
58	Socket, Microcircuit		56	Augat #516-AG10D
59	Wire, Solid, Wirewrap 30 AWG	146333	A/R	J1
60	Microcircuit, 74S158		4	A8, 12, 22, 24
61				
62				
63				
64				
65				
67				

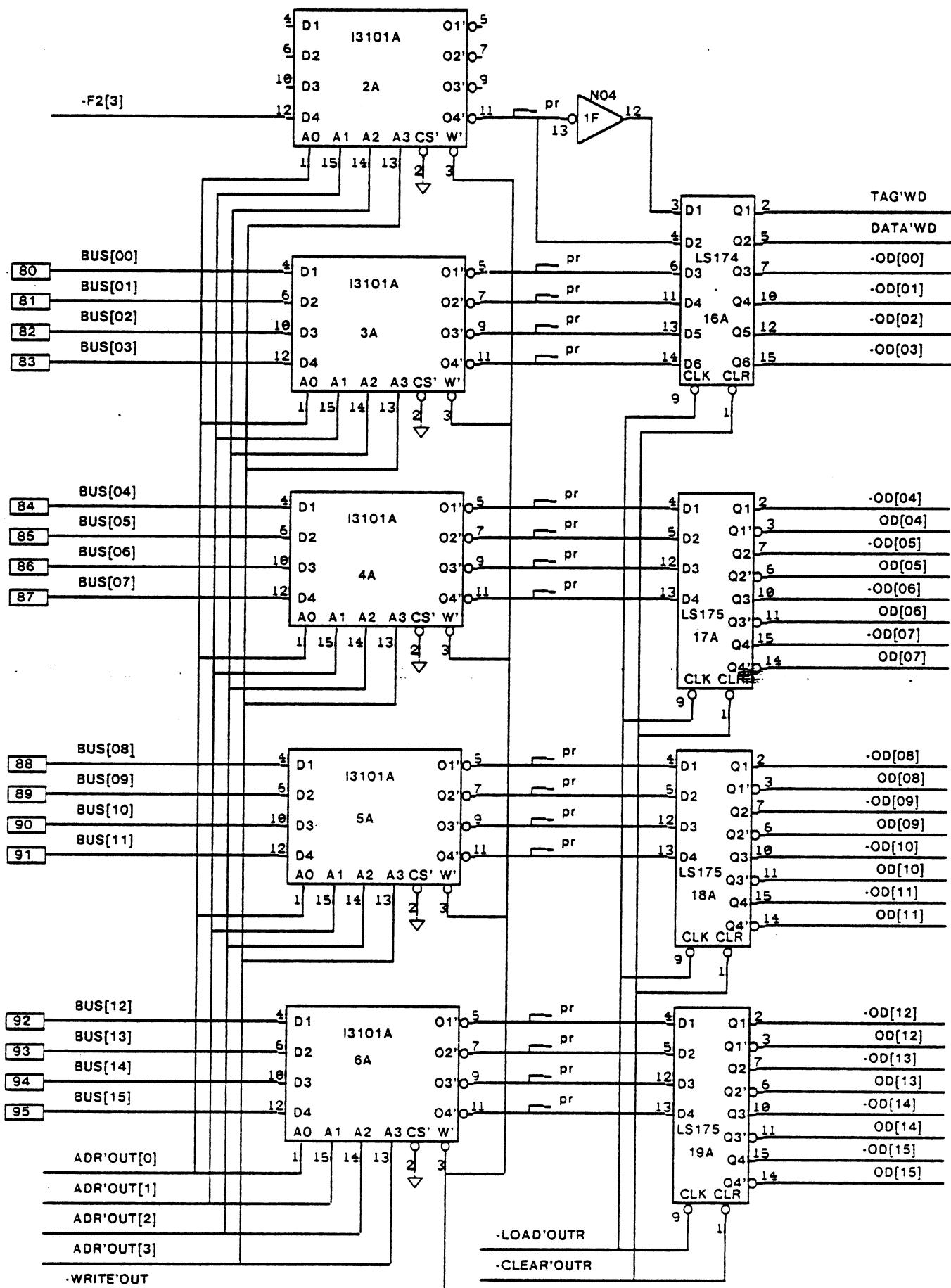


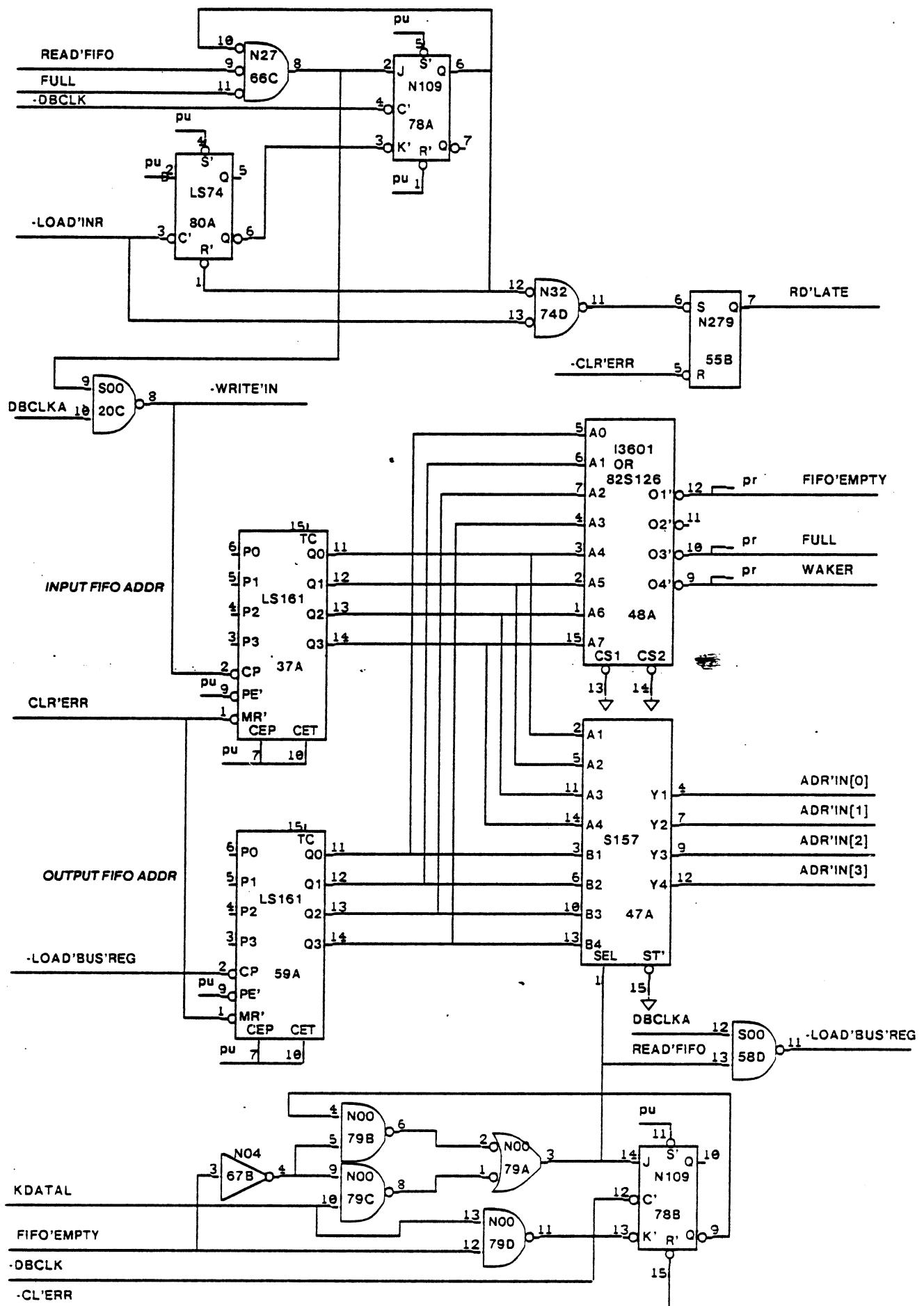


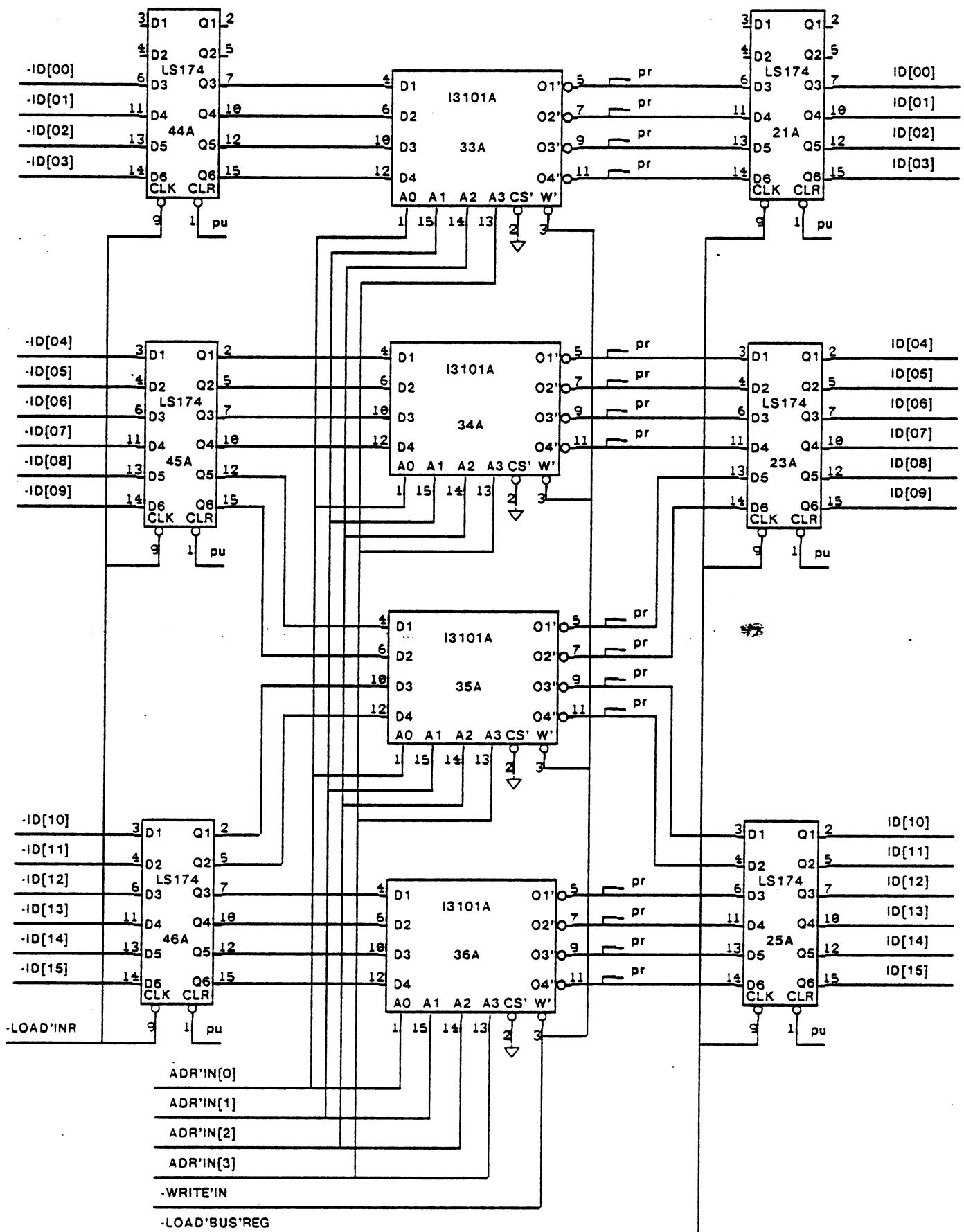


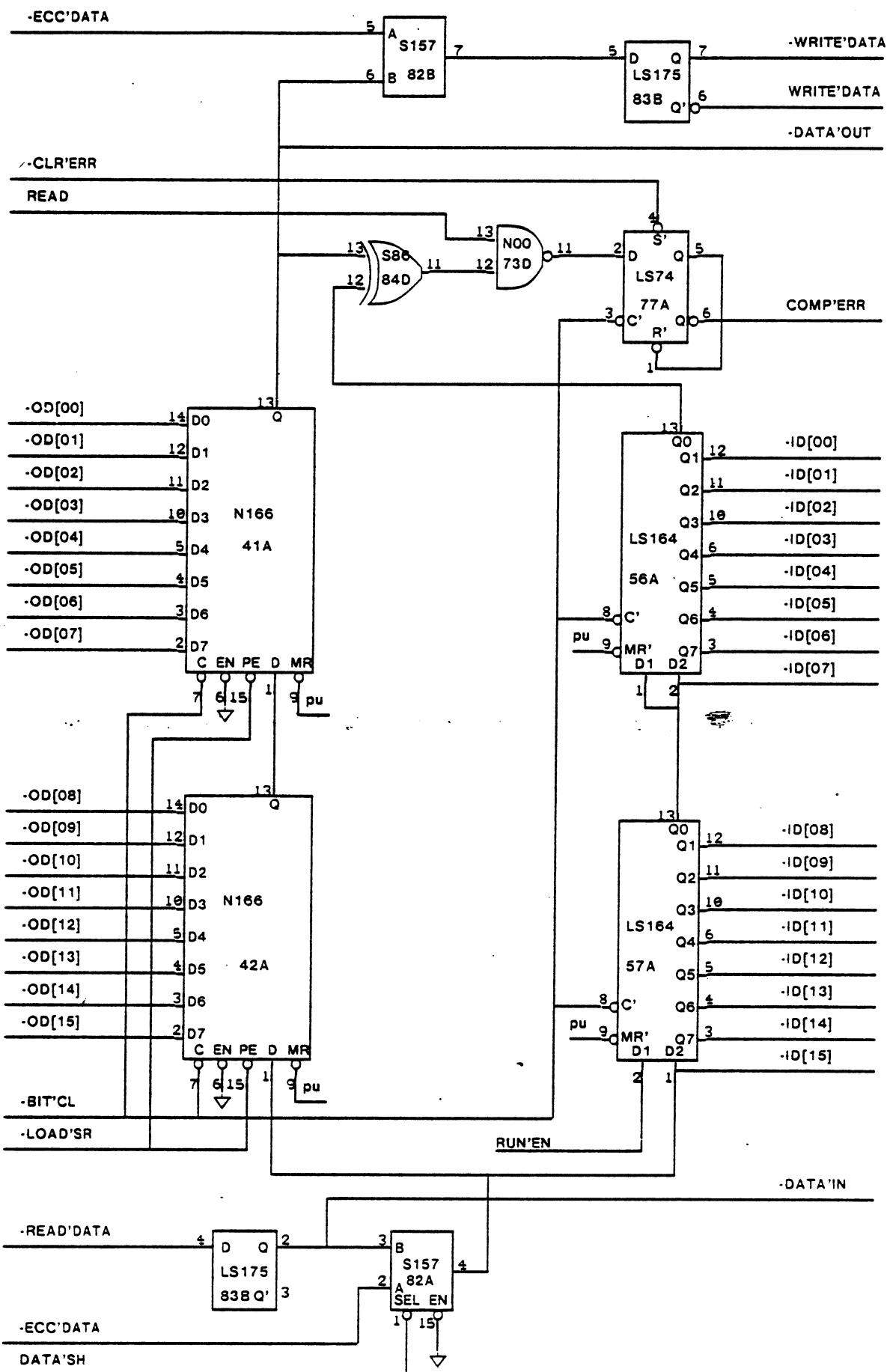
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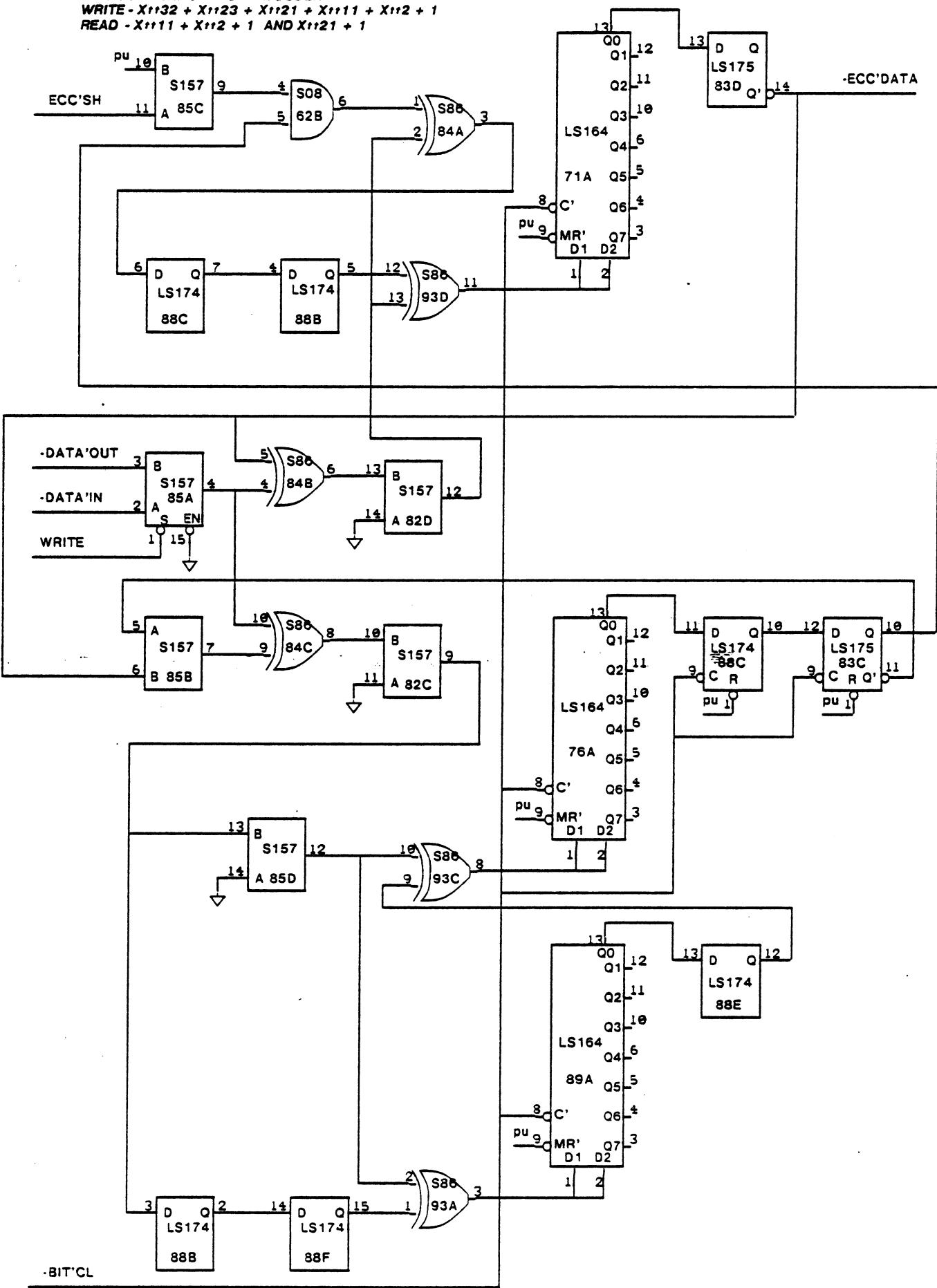


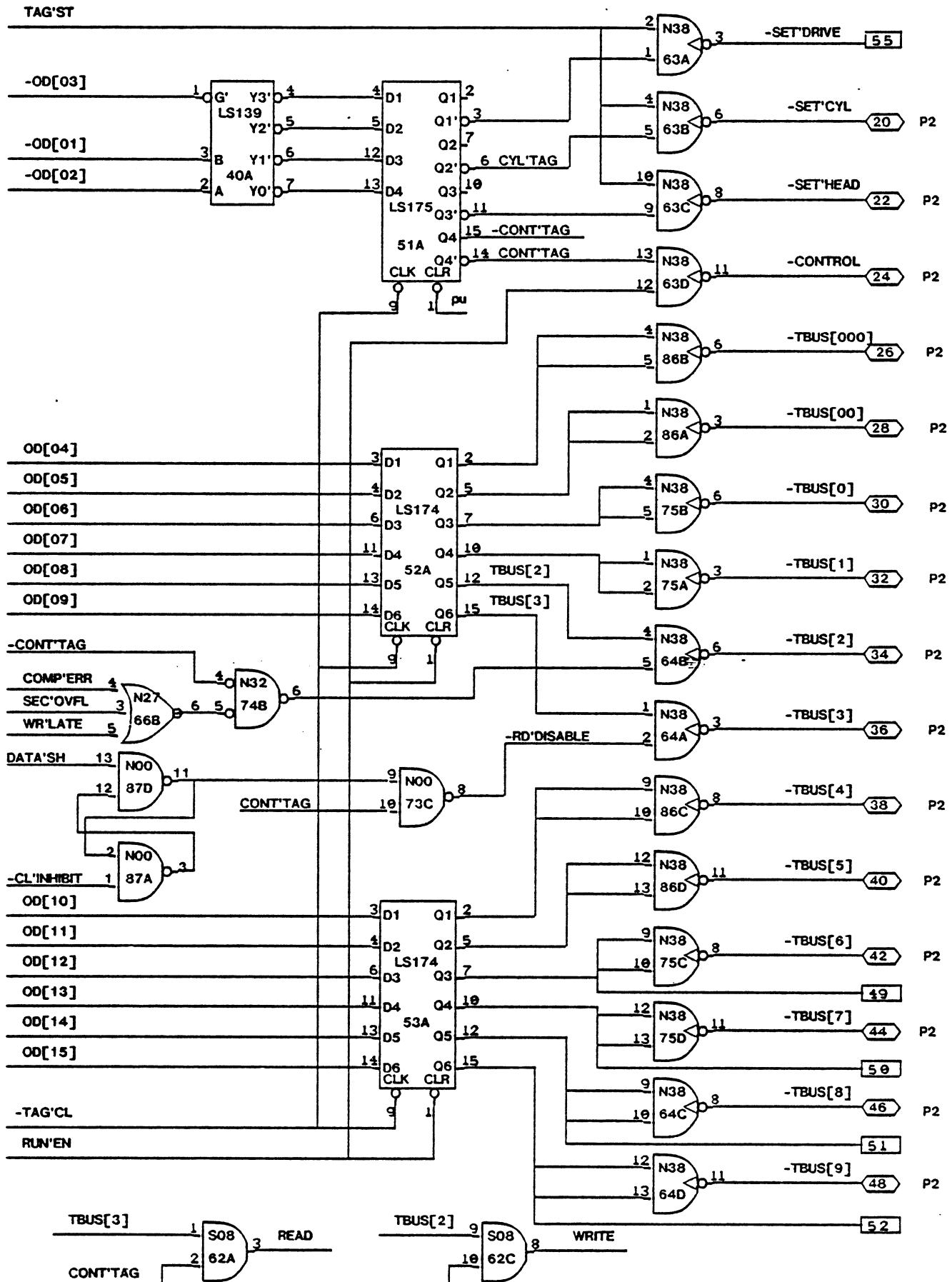


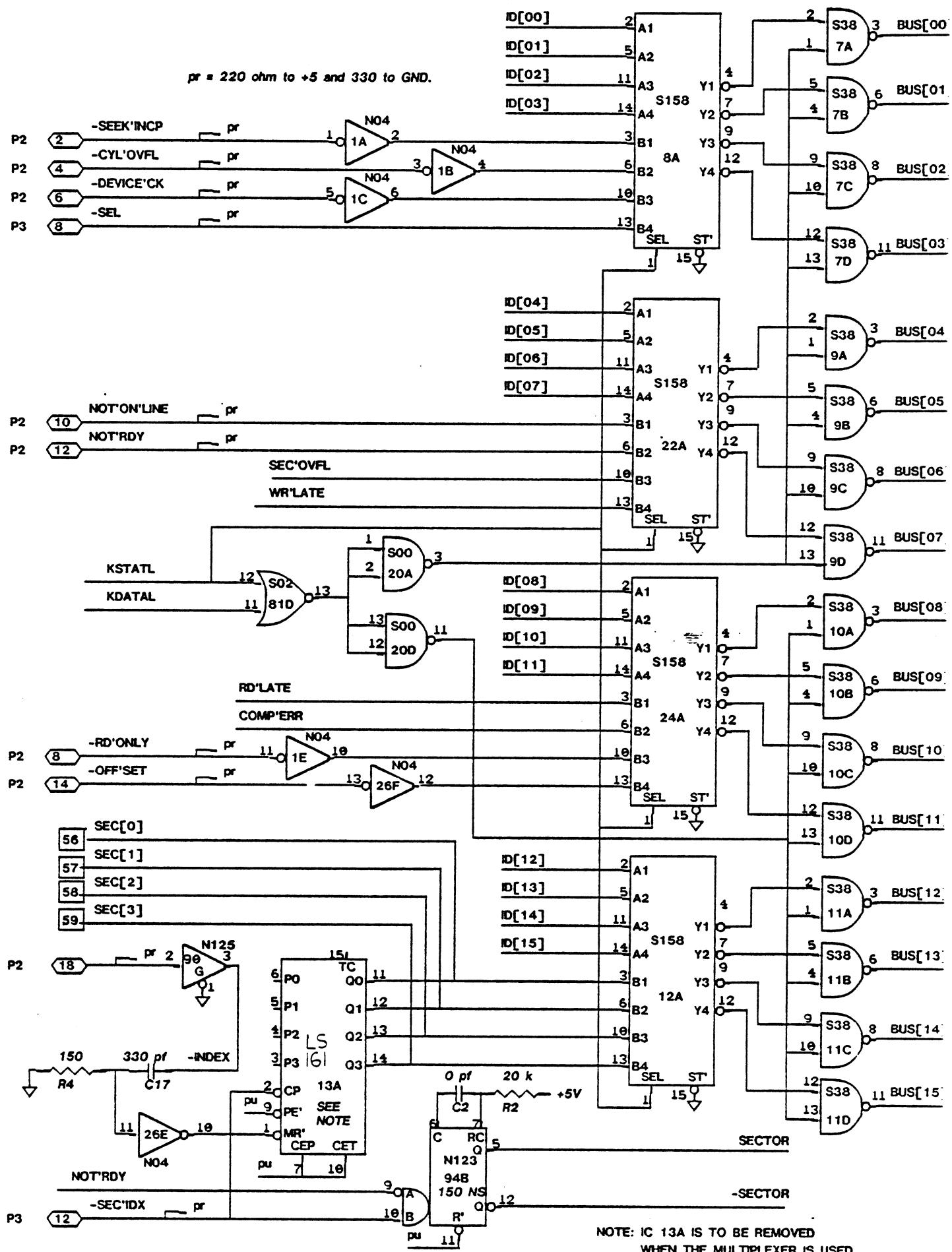


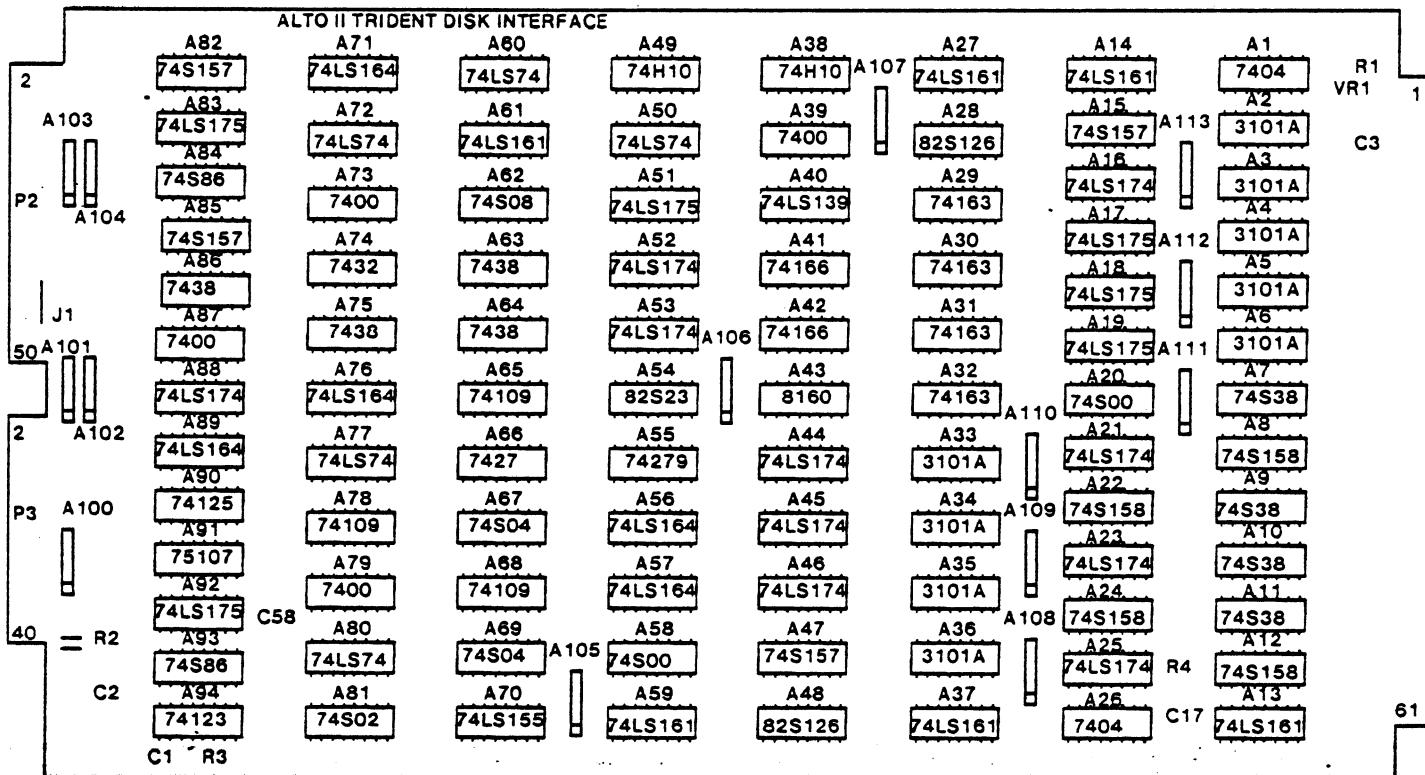


NOTE: FIRE CODE GENERATOR/DECODER
WRITE - $X_{11}32 + X_{11}23 + X_{11}21 + X_{11}11 + X_{11}2 + 1$
READ - $X_{11}11 + X_{11}2 + 1$ AND $X_{11}21 + 1$







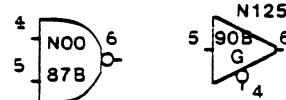


ALTO II
BACKPLANE

NOTE: IC A13 is to be removed when the multiplexer option is installed.

NOTE: Part of the cable that connects to P3 goes to the bulkhead connector and part goes to the Control module.

NOTE: Following circuits are unused.

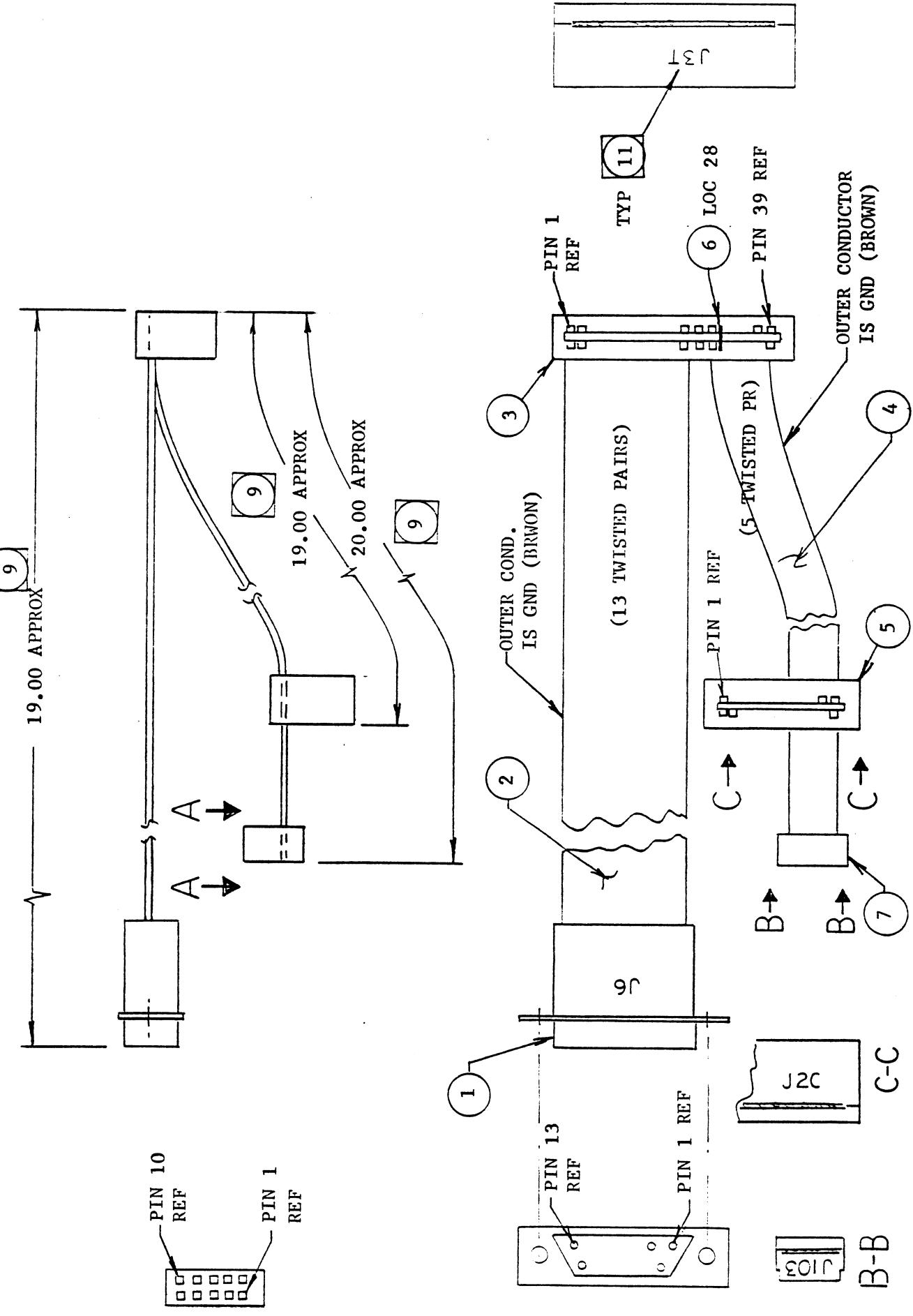


NOTE:
 $A_{100} = 100\text{ ohms}$
 $A_{101}, A_{103} = 330\text{ ohms}$
 $A_{102}, A_{104} = 220\text{ ohms}$
 $A_{105} - A_{113} = 1k\text{ ohms}$

$R_1 = 470\text{ ohms}$
 $R_2 = 20k\text{ ohms}$
 $R_3 = 10k\text{ ohms}$
 $R_4 = 150\text{ ohms}$

$C_1 = 390\text{ pf}$
 $C_2 = \text{not used}$
 $C_3 = 20\text{ uf } 20\text{ v}$
 $C_{17} = 330\text{ pf}$

$VR_1 = 1N750$
 $J_1 = 30\text{ ga. JUMPER WIRE}$



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**ASSEMBLY, CABLE - TRICON RADIAL
(INTERNAL)**

Xerox Corporation
El Segundo, California
216466

C

Sheet 3 of 6

Wire No.	Term	From	To	Term	Type	Notes	Signal
1	J3T - 1		J6 - 13	2	BRN		GND
2	2	25		BLK			TERM+5
3	3	12		RED			GND
4	4	24		BLK			TERM+5
5	5	11		ORN			GND
6	6	23		BLK			SEQUENCE
7	7	10		YEL			GND
8	8	22		BLK			SELECTED
9	9	9		GRN			GND
10	10	21		BLK			SELECT
11	11	8		BLU			GND
12	12	20		BLK			SPEC' IDX
13	13	7		PURP			GND
14	14	-		10	BLK	N.C.	
15	15	19		GRAY			GND
16	16	6		BLK			CL-P
17	17	18		WHIT			GND
18	18	5		BLK			CL-M
19	19	17		TAN			GND
20	20	4		BLK			GND
21	21	16		RED			GND
22	22	3		BLK			R/W-M
23	23	15		ORN			GND
24	24	2		BLK			R/W-P
25	25	14		YEL			GND
26	J3T - 26	J6 - 1		BLK			GND

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1. Ref Item No's in Applicable Material List.

2. Ref Designations Are Abbreviated. Prefix Each Designation With:

ALTO II
ASSEMBLY, CABLE -
TRICON RADIAL
(INTERNAL)

Xerox Corporation
El Segundo, California

216466

Sheet 5 Of 6

Ref. No.	Term	From	To	Term	Yr.	Notes	Signal
27	J3T-30	J2C-17		4	BLK		GND
28	J2C-17	J103-1			BLK		GND
29	J3T-31	J2C-18			GRN		GND
30	J2C-18	J103-2			GRN		GND
31	J3T-32	J2C-19			BLK		<u>WAKER</u>
32	J2C-19	J103-3			BLK		<u>WAKER</u>
33	J3T-33	J2C-20			YEL		GND
34	J2C-20	J103-4			YEL		GND
35	J3T-34	J2C-21			BLK		<u>RTSKACT</u>
36	J2C-21	J103-5			BLK		<u>RTSKACT</u>
37	J3T-35	J2C-22			ORN		GND
38	J2C-22	J103-6			ORN		<u>WAKEW</u>
39	J3T-36	J22-23			BLK		<u>WAKEW</u>
40	J2C-23	J103-7			BLK		<u>WAKEW</u>
41	J3T-37	J2C-24			RED		GND
42	J2C-24	J103-8			RED		<u>WTSKACT</u>
43	J3T-38	J2C-25			BLK		<u>WTSKACT</u>
44	J2C-25	J103-9			BLK		<u>WTSKACT</u>
45	J3T-39	J2C-26			BROWN		GND
46	J2C-26	J103-10		4	BROWN		GND
47							
48							
49							
50							
51							
52							

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ASSEMBLY, CABLE =
TRICON RADIAL
(INTERNAL)

Xerox Corporation
El Segundo, California

216466

Sheet 6 of 6

NOTES: UNLESS OTHERWISE SPECIFIED

1. FABRICATE PER XEROX SPEC 209154.
2. MAY BE PURCHASED FROM CANNON ELECTRIC, SANTA ANA, CALIFORNIA. VENDOR PART NUMBER.
3. TWISTED PAIR CABLE (ITEM 2) MAY BE PURCHASED FROM ALPHA WIRE, TORRANCE, CA, P/N 5231.
4. TERMINATOR ASSEMBLY (ITEM 3) MAY BE PURCHASED FROM CALIFORNIA COMPUTER PRODUCTS INC, ANAHEIM, CALIFORNIA, PART NUMBER 12433 - 001.
5. TWINAX CABLE (ITEM 6) MAY BE PURCHASED FROM BELDEN CORP, RICHMOND, INDIANA P/N 9272.

6. CABLE LENGTH "L" WILL BE REPRESENTED BY A THREE DIGIT NUMBER PREFIXED BY DRAWING NO. 216480. THE FIRST TWO DIGITS REPRESENT THE NOMINAL LENGTH IN TENTHS OF FEET WITH THE THIRD DIGIT REPRESENTING A TIMES TEN MULTIPLIER.

E.G.	-101 MEANS 1.0 FT
	-102 MEANS 10.0 FT
	-202 MEANS 20.0 FT
	-103 MEANS 100.0 FT (MAXIMUM)

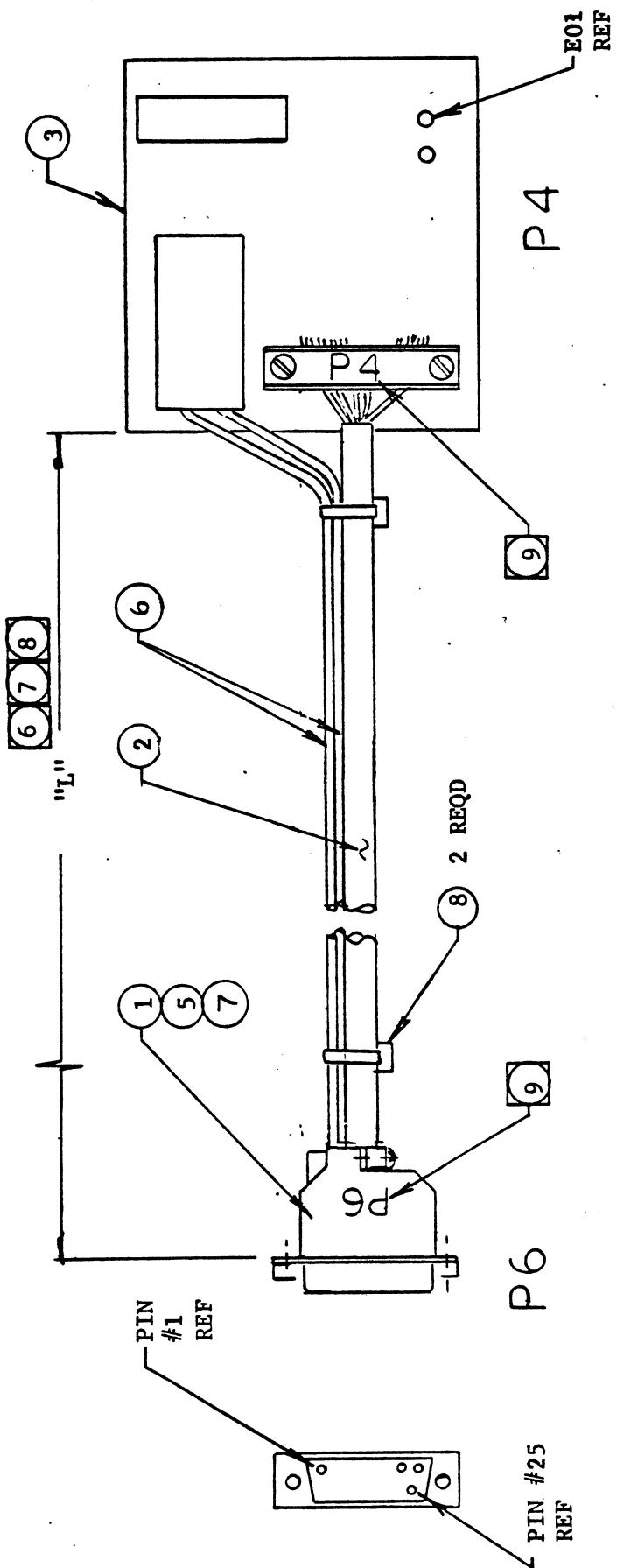
7. TOLERANCES ON CABLE LENGTHS TO BE AS FOLLOWS:

TO 5.0 FT -----±5%, OVER 5.0 FT TO 20.0 FT-----±2.0 IN.,
OVER 20.0 FT-----±6.0 IN.

8. MAXIMUM CABLE LENGTH OF ANY RADIAL CABLE SHALL NOT EXCEED 100 FEET.

9. MARK CHARACTERS .12 HIGH, COLOR: BLACK PER XEROX SPEC 101624.
10. RETAINER, SLIDING LOCK (ITEM 5) MAY BE PURCHASED FROM CANNON ELECTRIC, SANTA ANA, CALIFORNIA P/N DB51221-1.

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Xerox Corporation El Segundo, California	XEROX
216480	E
Sheet 3 Of 5	

ASSEMBLY, CABLE - TRICON RADIAL (EXTERNAL)

Wire No.	Term	From	To	Term	Wire Type	Notes	Signal	Chg. Let.
1		P6 - 25	P4 - E01		2	TW PR	TERM + 5	
2		13	E05			GND		
3		24	E02			TW PR	TERM + 5	
4		12	E05			GND		
5		20	E04			TW PR	SEC' IDX	
6		8	E03			GND		
7								
8		10	E07			TW PR	GND	
9		22	E08				SELECTED	
10		11	E09			TW PR	GND	
11		23	E10				SEQUENCE	
12		9	E11			TW PR	GND	
13		21	E12				SELECT	
14								
15		15	E15			SHIELD	GND	
16		2	E14			TWINAX 1	R/W-P	
17		3	E16			TWINAX 2	R/W-M	
18		-16-	-E15-			TW PR	-GND-	
19		-3-	-E16-				-R/W-M-	
20								
21						SHIELD	GND	
22		18	E19					
23		5	E20			TWINAX 1	CL-M	
24		6	E18			TWINAX 2	CL-P	
25		-19-	-E19-			TW PR	-GND-	
26		P6 - 6-	P4 - E20-		2		-CL-M-	

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2. Ref Designations Are Abbreviated. Prefix Each Designation With:

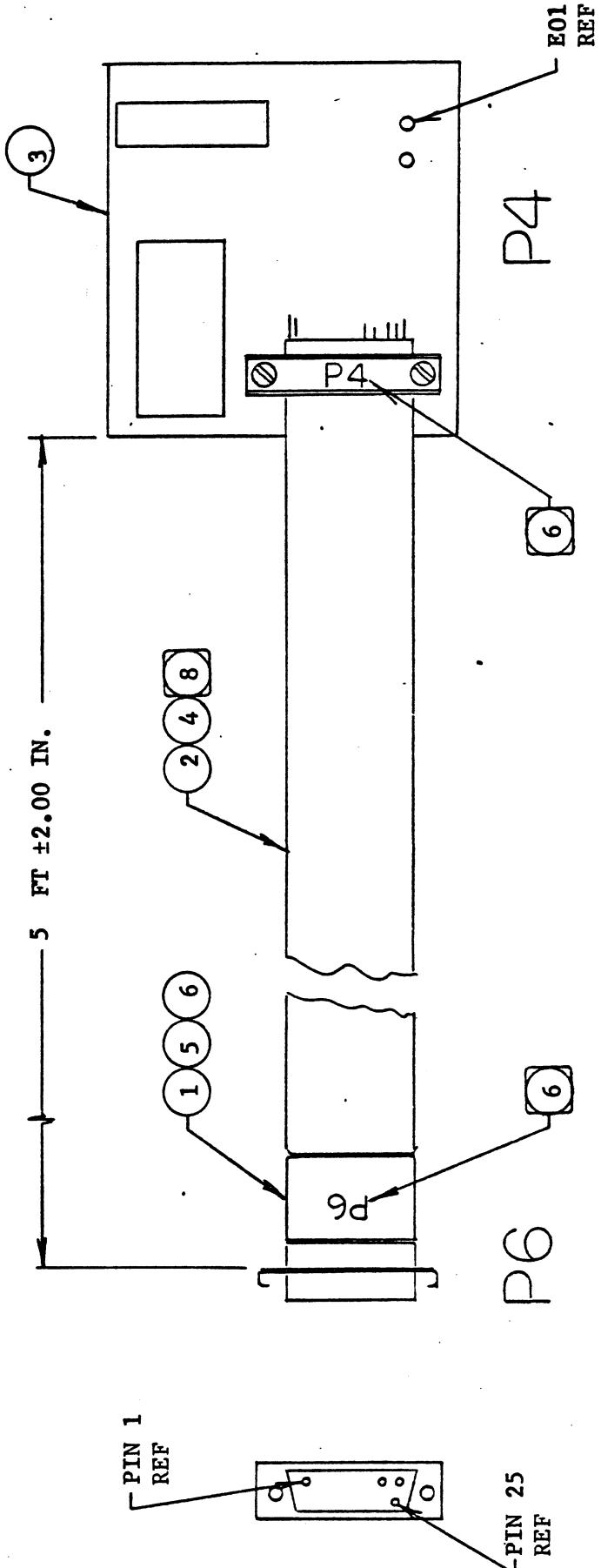
ASSEMBLY, CABLE-
TRICON RADIAL (EXT)

XEROX

Xerox Corporation
El Segundo, California

216480
Sheet 5 Of 5

XEROX



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ASSEMBLY, CABLE - TRICON RADIAL (EXTERNAL)

Xerox Corporation El Segundo, California	XEROX
216542	D
Sheet 3 of 5	

Wire No.	Term	To	Term	Wire No.	Notes	Signal	Chg. Let.
1	P6 - 25	P4 - E01		2	TW PR	TERM + 5	
2	13	E05				GND	
3	24	E02			TW PR	TERM + 5	
4	12	E05				GND	
5	20	E04			TW PR	SEC' IDX	
6	8	E03				GND	
7							
8	10	E07			TW PR	GND	
9	22	E08				SELECTED	
10	11	E09			TW PR	GND	
11	23	E10				SEQUENCE	
12	9	E11			TW PR	GND	
13	21	E12				SELECT	
14							
15	15	E15			TW PR	GND	
16	2	E14				R/W-P	
17							
18	16	E15			TW PR	GND	
19	3	E16				R/W-M	
20							
21							
22	18	E19			TW PR	GND	
23	5	E20				CL-M	
24							
25	19	E19			TW PR	GND	
26	P6 - 6	P4 - E18		2		CL-P	

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1. Ref Item No's in Applicable Material List.

2. Ref Designations Are Abbreviated. Prefix Each Designation With:

ASSEMBLY, CABLE -
TRICON RADIAL (EXTERNAL)

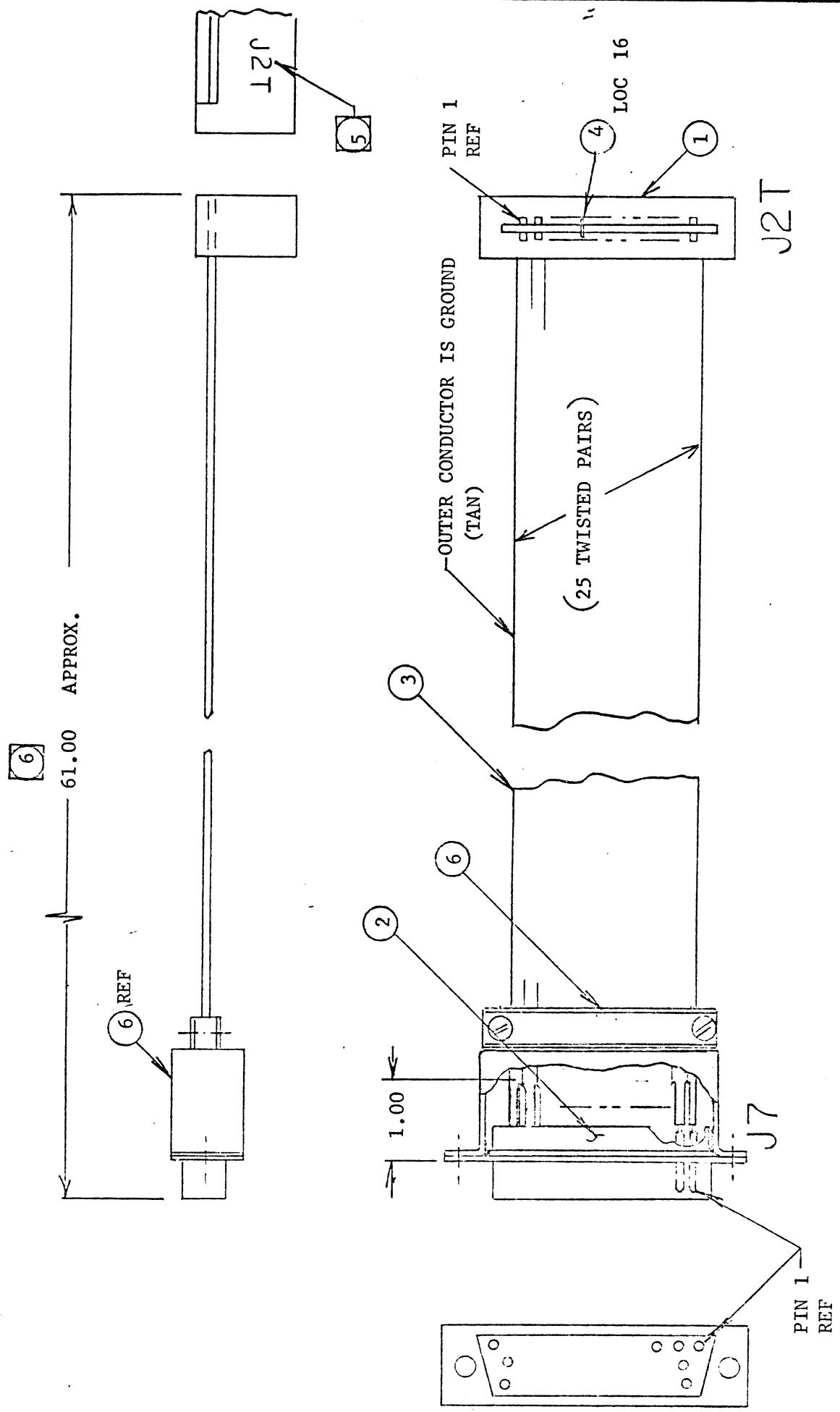
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Sheet 5 of 5

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Title ALTO II
ASSEMBLY, CABLE - TRICON BUSS ED (INTFRNAL)

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216467

A

Sheet 3 of 6

Wire No.	Term	Wire	Notes	Signal	Chg. Let.
1	J2T - 1	J7 - 50	3	GND	
2	2	17		SEEK 'INCP*	
3	3	49		GND	
4	4	33		CYL 'OVFL*	
5	5	16		GND	
6	6	48		DEVICE 'CK*	
7	7	32		GND	
8	8	15		RD 'ONLY*	
9	9	47		GND	
10	10	31		NOT 'ON' LINE	
11	11	14		GND	
12	12	46		NOT 'RDY	
13	13	30		GND	
14	14	13		OFF 'SET*	
15	15	45		GND	
16	16	29		SPARE	
17	17	12		GND	
18	18	44		INDEX*	
19	19	28		GND	
20	20	11		SET 'CYL*	
21	21	43		GND	
22	22	27		SET 'HEAD*	
23	23	10		GND	
24	24	42		CONTROL*	
25	25	26		GND	
26	J2T - 26	J7 - 9	3	TRUS (000)*	

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1. Ref Item No's in Applicable Material List.
2. Ref Designations Are Abbreviations

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NOTES: UNLESS OTHERWISE SPECIFIED:

1. FABRICATE PER XEROX SPEC 209154.
2. MAY BE PURCHASED FROM CANNON ELECTRIC COMPANY, SANTA ANA, CALIFORNIA, VENDOR PART NUMBER.
3. ASSEMBLY, TERMINATOR (ITEM 3) MAY BE PURCHASED FROM CALIFORNIA COMPUTER PRODUCTS, INC ANAHEIM, CALIFORNIA PART NUMBER 12424-001.
4. CABLE, 27 TWISTED PAIRS (ITEM 2) MAY BE PURCHASED FROM ALPHA WIRE, TORRANCE, CA, P/N 5235.
5. SLEEVING, FLAT CABLE (ITEM 4) MAY BE PURCHASED FROM SPECTRA-STRIPE-CORP, BUENA PARK, CALIFORNIA PART NUMBER 300-786.
6. CABLE LENGTH "L" WILL BE REPRESENTED BY A THREE DIGIT NUMBER PREFIXED BY DRAWING NO. 216483. THE FIRST TWO DIGITS REPRESENT THE NOMINAL LENGTH IN TENTHS OF FEET WITH THE THIRD DIGIT REPRESENTING A TIMES TEN MULTIPLIER.

E.G.
-101 MEANS 1.0 FT.
-102 MEANS 10 FT.
-202 MEANS 20 FT.
-103 MEANS 100 FT. (MAXIMUM)
7. TOLERANCES ON CABLE LENGTHS TO BE AS FOLLOWS:

TO 5.0 FT \pm 5%
OVER 5.0 FT TO 20.0 FT \pm 2.0 IN.
OVER 20.0 FT \pm 6.0 IN.
8. MAXIMUM LENGTH OF ALL BUSSSED CABLES COMBINED FOR A MULTIPLE DRIVE INSTALLATION SHALL NOT EXCEED 100 FEET.
9. MARK CHARACTERS .12 HIGH, COLOR: BLACK PER XEROX SPEC 101624.
10. ALL GND SIGNALS TO BE COMMON COLOR CODE (BLACK).

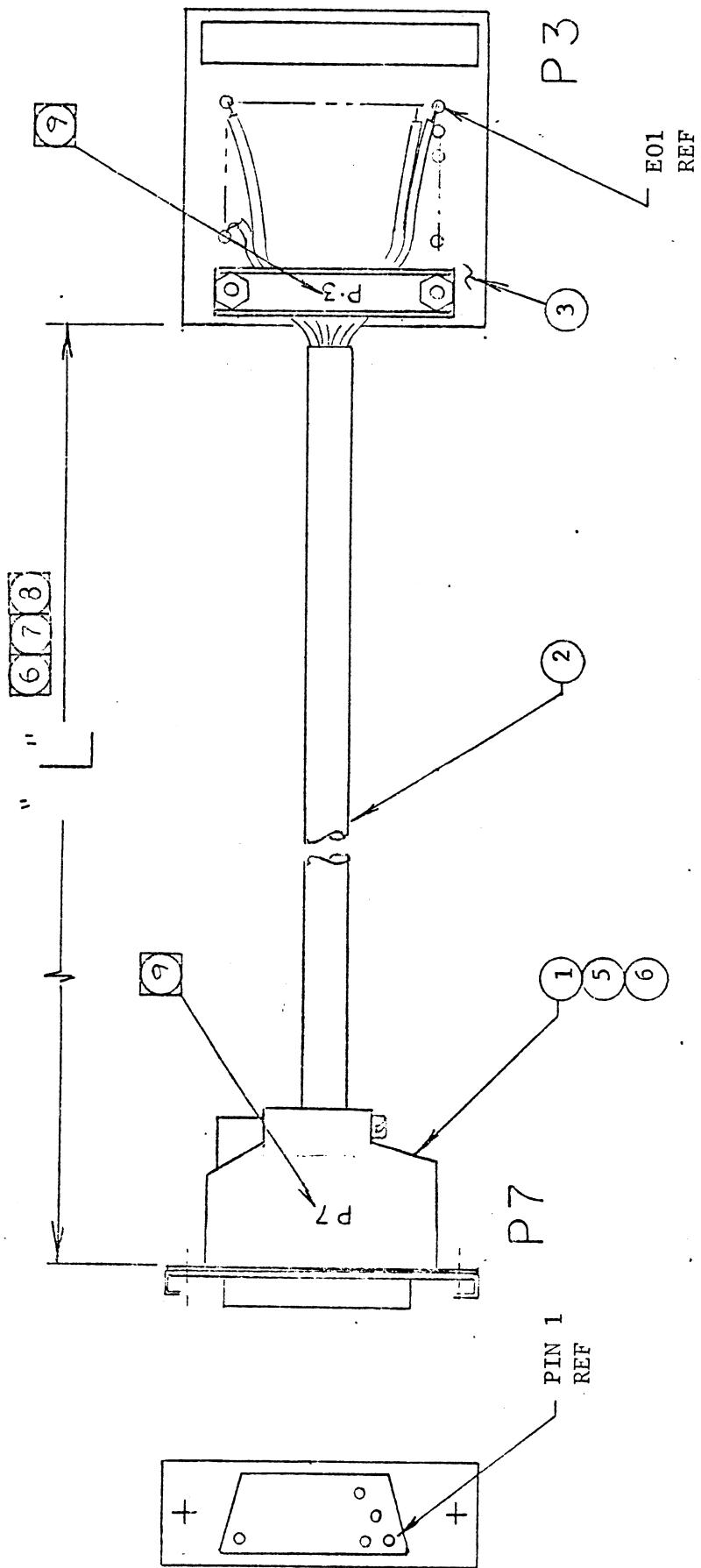
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ALTO II
ASSEMBLY, CABLE - TRICON BUSSSED (EXTERNAL)

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	216483		C



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ALTO II ASSEMBLY, CABLE - TRICON BUSS ED (EXTERNAL)

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Wire No.	Term	From	To	Term	Wk.	Re	Notes	Signal	Chg. Let.
1	P7 - 50		P3 - E16G	E16		2	TW PR	[10]	GND
2	17						TW PR		SEEKINCP*
3	49		E02G				TW PR		GND
4	33		E02				TW PR		CYLOVFL*
5	15		E12G				TW PR		GND
6	48		E12				TW PR		DEVICECK*
7	32		E10G				TW PR		GND
8	15		E10				TW PR		RONLY*
9	47		E14G				TW PR		GND
10	31		E14				TW PR		NOT ON LINE
11	14		E08G				TW PR		GND
12	46		E08				TW PR		NOT RDY
13	30		E04G				TW PR		GND
14	13		E04				TW PR		OFFSET*
15	12		E06G				TW PR		GND
16	44		E06				TW PR		INDEX*
17	23		E39G				TW PR		GND
18	11		E39				TW PR		SETCYL*
19	43		E40G				TW PR		GND
20	27		E40				TW PR		SETHEAD*
21	10		E37G				TW PR		GND
22	42		E37				TW PR		CONTROL*
23	8		E20G				TW PR		GND
24	40		E20				TW PR		TBUS (0)*
25	24		E22G				TW PR		GND
26	P7 - 7		P3 - E22			2	TW PR	[10]	TBUS (1)*

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1. Ref Item No's in Applicable Material List.
2. Ref Designations Are Abbreviated. Prefix Latch Designation With:

ALTO II
ASSEMBLY, CABLE-
TRICON BUSSSED (EXTERNAL)

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Material List. Ref. Designations Are Abbreviated
Prefix Each Designation With:

ASSEMBLY, CABIN

Title ALTO II

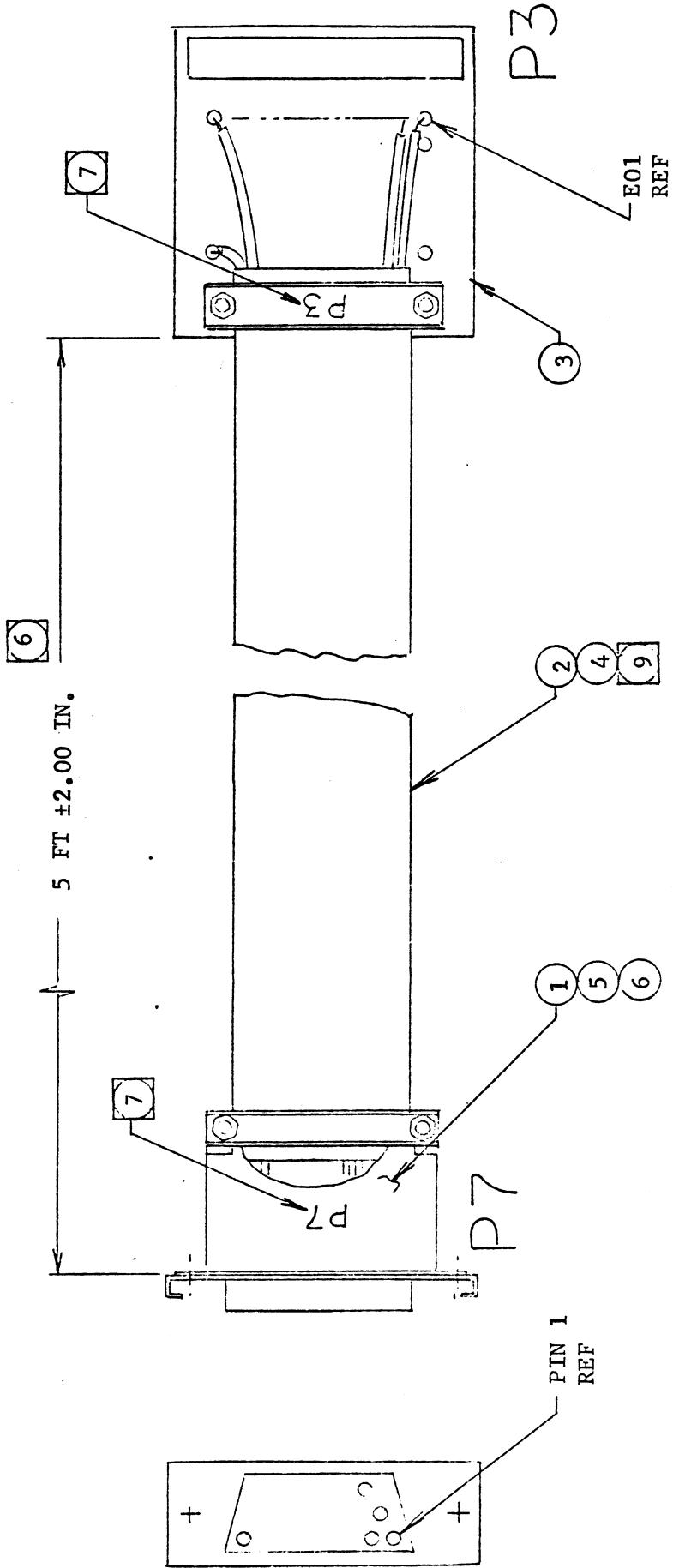
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Ergonomics 6 Of 6



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ASSEMBLY, CABLE -
TRICON BUSS ED (EXTERNAL)

Xerox Corporation El Segundo, California	216543
B	Sheet 3 Of 6

Wire No.	Term	From	To	Term	Wire Type	Notes	Signal	Chg. Let.
1		P7 - 50	P3 - E16G		2	TW PR	(8)	GND
2		17	E16					SEEKINCP*
3		49	E02G		TW PR	8	GND	
4		33	E02				CYLOVFL*	
5		16	E12G		TW PR	8	GND	
6		48	E12				DEVICECK*	
7		32	E10G		TW PR	8	GND	
8		15	E10				RDONLY*	
9		47	E14G		TW PR	8	GND	
10		31	E14				NOT ON LINA	
11		14	E08G		TW PR	(8)	GND	
12		46	E08				NOT RDY	
13		30	E04G		TW PR	8	GND	
14		13	E04				OFFSET*	
15		12	E06G		TW PR	(8)	GND	
16		44	E06				INDEX*	
17		28	E39G		TW PR	8	GND	
18		11	E39				SETCYL*	
19		43	E40G		TW PR	8	GND	
20		27	E40				SETHEAD*	
21		10	E37G		TW PR	(8)	GND	
22		42	E37				CONTROL*	
23		8	E21		TW PR	(8)	GND	
24		40	E20				TBUS(0)*	
25		24	E22 G		TW PR	(8)	GND	
26		P7 - 7	P3 - E22		2			TBUS(1)*

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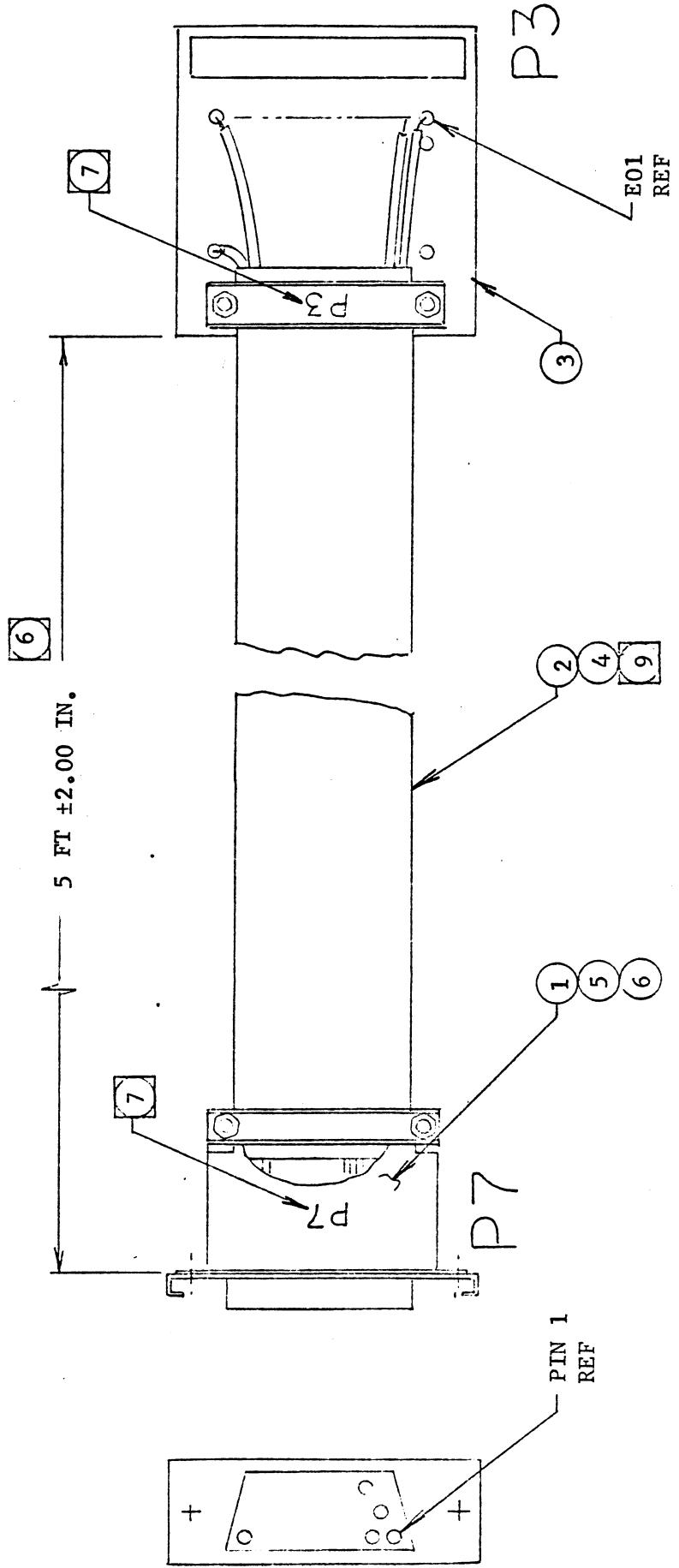
1. Ref Item No's in Applicable Material List.
2. R-t Designations Are Abbreviated. Prefix Each Designation With:

TRICON BUSSSED (EXTERNAL)
ASSEMBLY, CABLE -

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ASSEMBLY, CABLE -
TRICON BUSS ED (EXTERNAL)

P7

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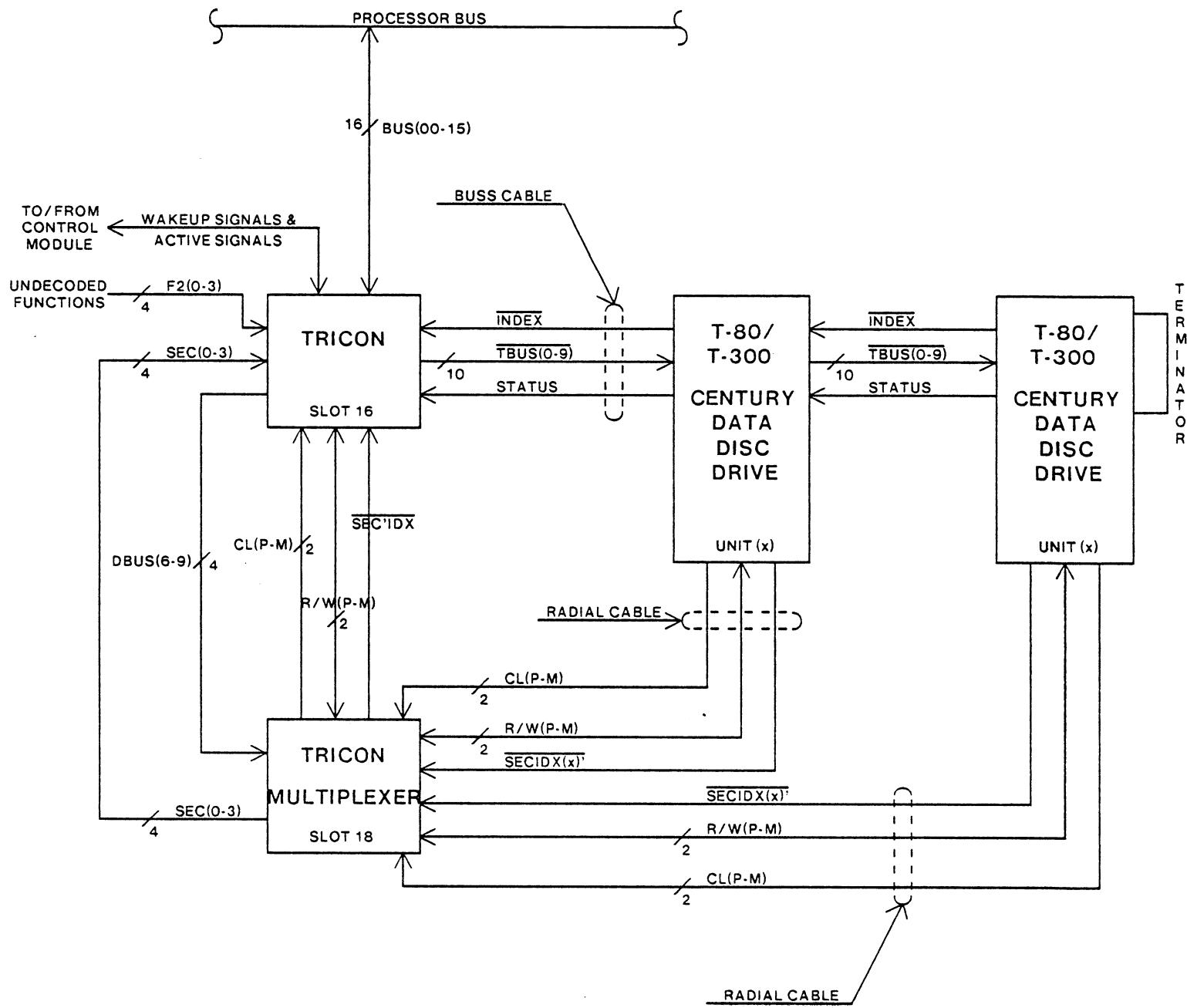
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B

Sheet 3 Of 6

TRICON MODULE & TRICON MULTIPLEXER MODULE BLOCK DIAGRAM



NOTES: UNLESS OTHERWISE SPECIFIED

1. ITEMS 1,3,5,13 THRU 20 SUPPLIED AS LOOSE ITEMS, TO BE INSTALLED IN ALTO II PROCESSOR CHASSIS TO INTERFACE WITH CALIFORNIA COMPUTER PRODUCTS INC, ANAHEIM CALIFORNIA MODEL NO. T-80 DISC FILE UNIT. FOR CABLING INSTRUCTIONS SEE FIGURE 1, 2, & 3.

- (2) TRIDENT DISC INTERFACE MODULE ASSY AND TRIDENT MULTIPLEXER MODULE ASSY ARE SHOWN INSTALLED IN MODULE LOCATIONS 18 AND 20 FOR REFERENCE ONLY. ANY 3 ADJOINING MODULE SLOTS FROM 15 THRU 20 MAY BE UTILIZED. TRIDENT MULTIPLEXER MODULE REQUIRES 2 SLOTS.
 - (3) REMOVE AND RETURN TO STOCK CONNECTOR PLATE P/N 216418 AND REPLACE WITH ITEM 5.
 - (4) ALL EXTERNAL CABLE ASSEMBLIES, ITEM 7, 8, & 9 SHOWN FOR REFERENCE ONLY ARE TO BE ORDERED SEPERATELY.
 - (5) ITEM 9, CABLE ASSY (DAISY CHAIN) MAY BE PURCHASED FROM CALIFORNIA COMPUTER PROD INC, ANAHEIM, CALIFORNIA P/N 17525-006 (6 FT LONG). OTHER LENGTHS AVAILABLE, DESIGNATED BY 3 DIGIT DASH NUMBER, IE -007 = 7 FT LONG, -008 = 8 FT LONG, ETC.
 - (6) THE COMBINED LENGTH OF TRICON BUSSSED CABLE TO BE MAXIMUM OF 100 FT.
 - (7) TERMINATOR MODULE, CALIFORNIA COMPUTER PROD INC, ANAHEIM, CALIF, P/N 12421-001, TO BE INSTALLED IN J2 OF THE LAST DISC FILE UNIT ON TRUNK LINE.
8. ALTO II BACKPLANE JUMPER WIRES MUST BE ADDED AS FOLLOWS:

<u>FROM</u>	TRIDENT DISC INTFC MODULE (REF SLOT 18)	<u>TO</u>	TRIDENT MULTIPLEXER MODULE (REF SLOT 20)
<u>PIN</u>		<u>PIN</u>	
49	_____	49	_____
50	_____	50	_____
51	_____	51	_____
52	_____	52	_____
55	_____	55	_____
56	_____	56	_____
57	_____	57	_____
58	_____	58	_____
59	_____	59	_____
60	_____	60	_____

- (9) PACKAGE 1 PAIR OF ITEM 22 PER EACH CABLE ASSY (ITEM 3, 13 THRU 20).

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Title
ASSEMBLY, TRICON MUX
KIT

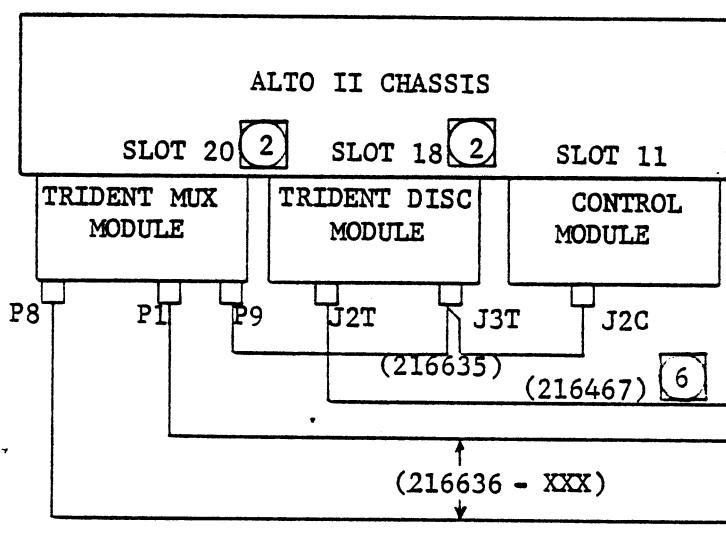
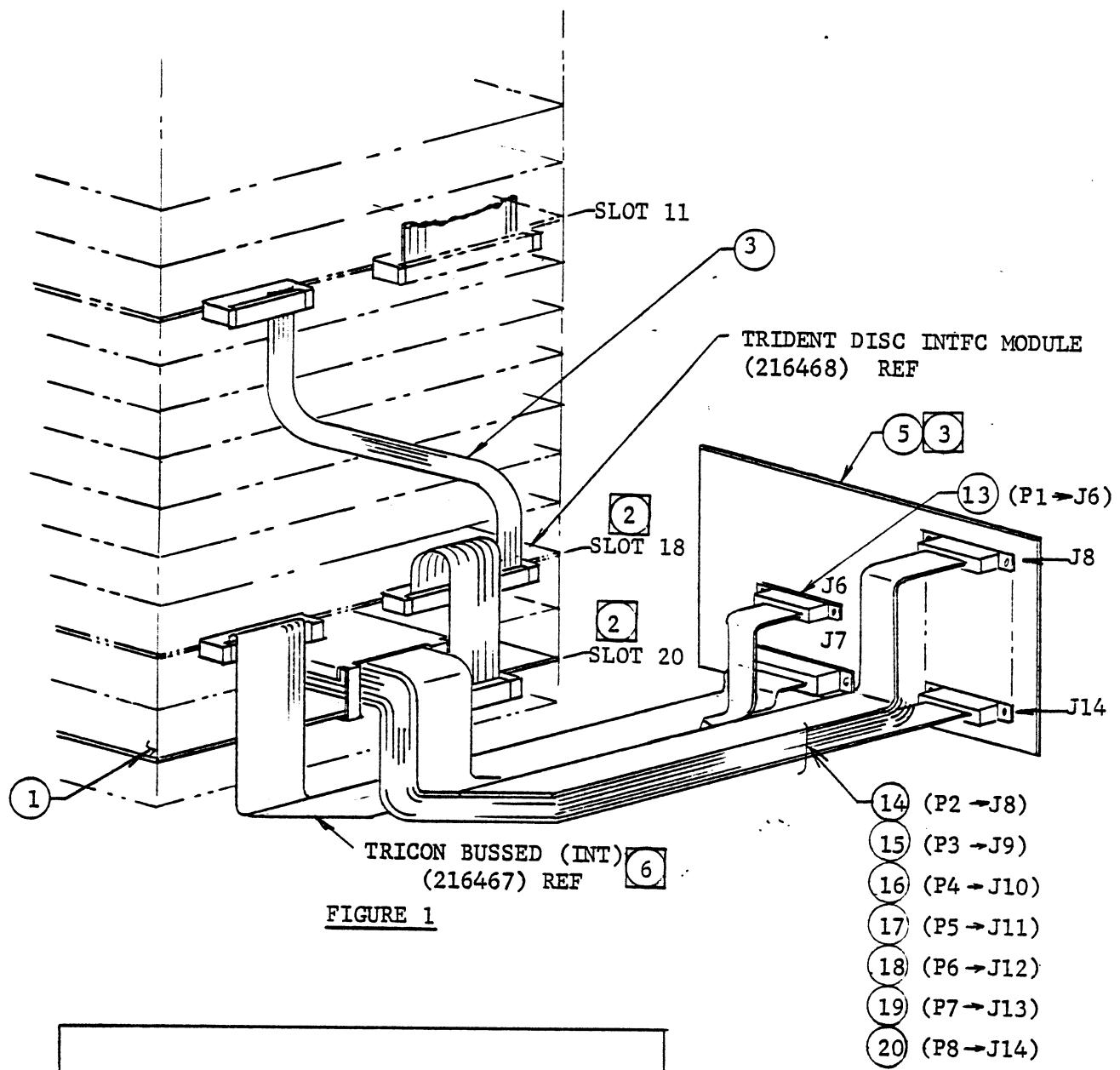
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Title
ASSEMBLY, TRICON MUX
KIT

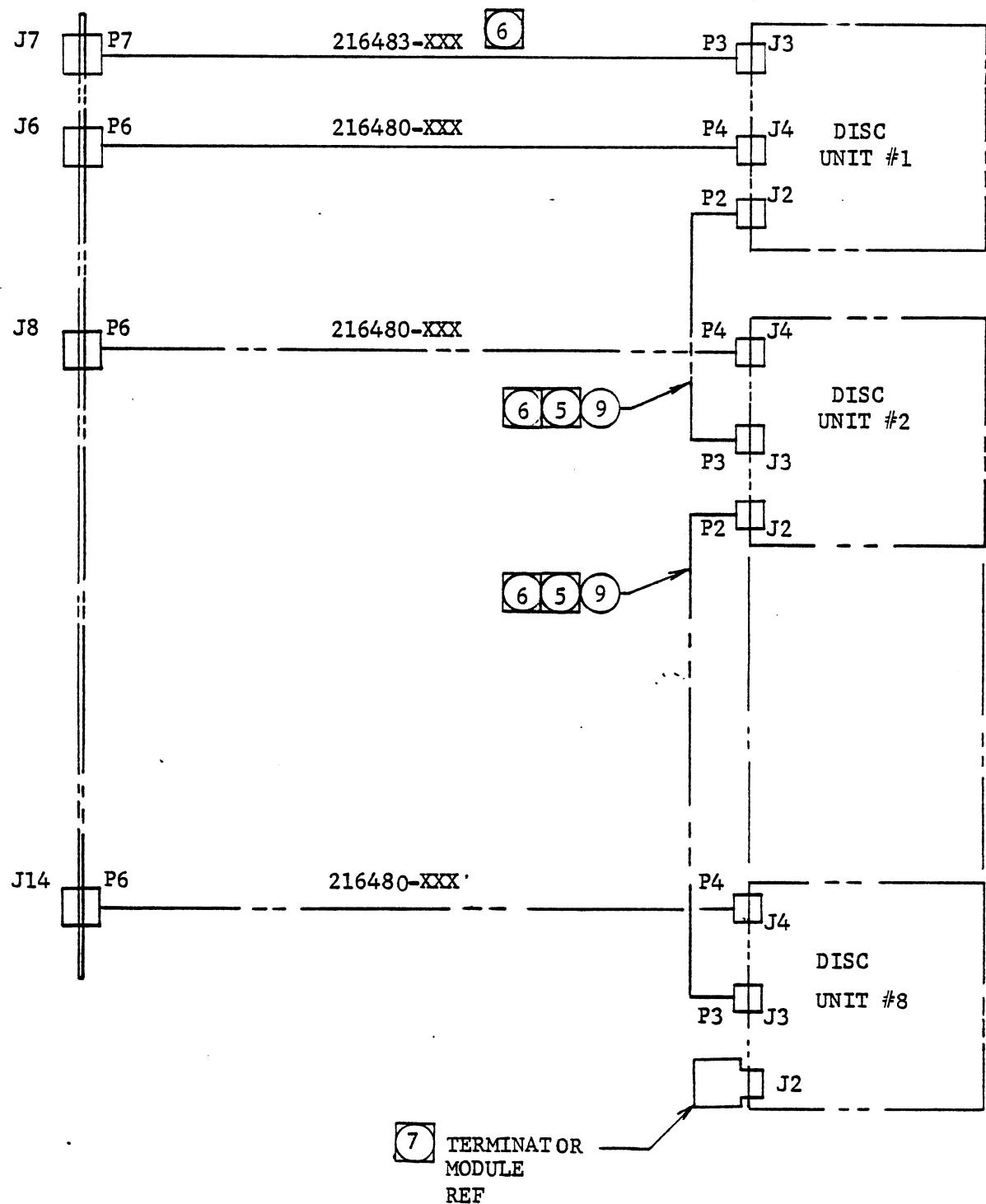
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FIGURE 3
CABLING DIAGRAM (EXTERNAL)



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Title
ASSY, TRICON MUX
KIT

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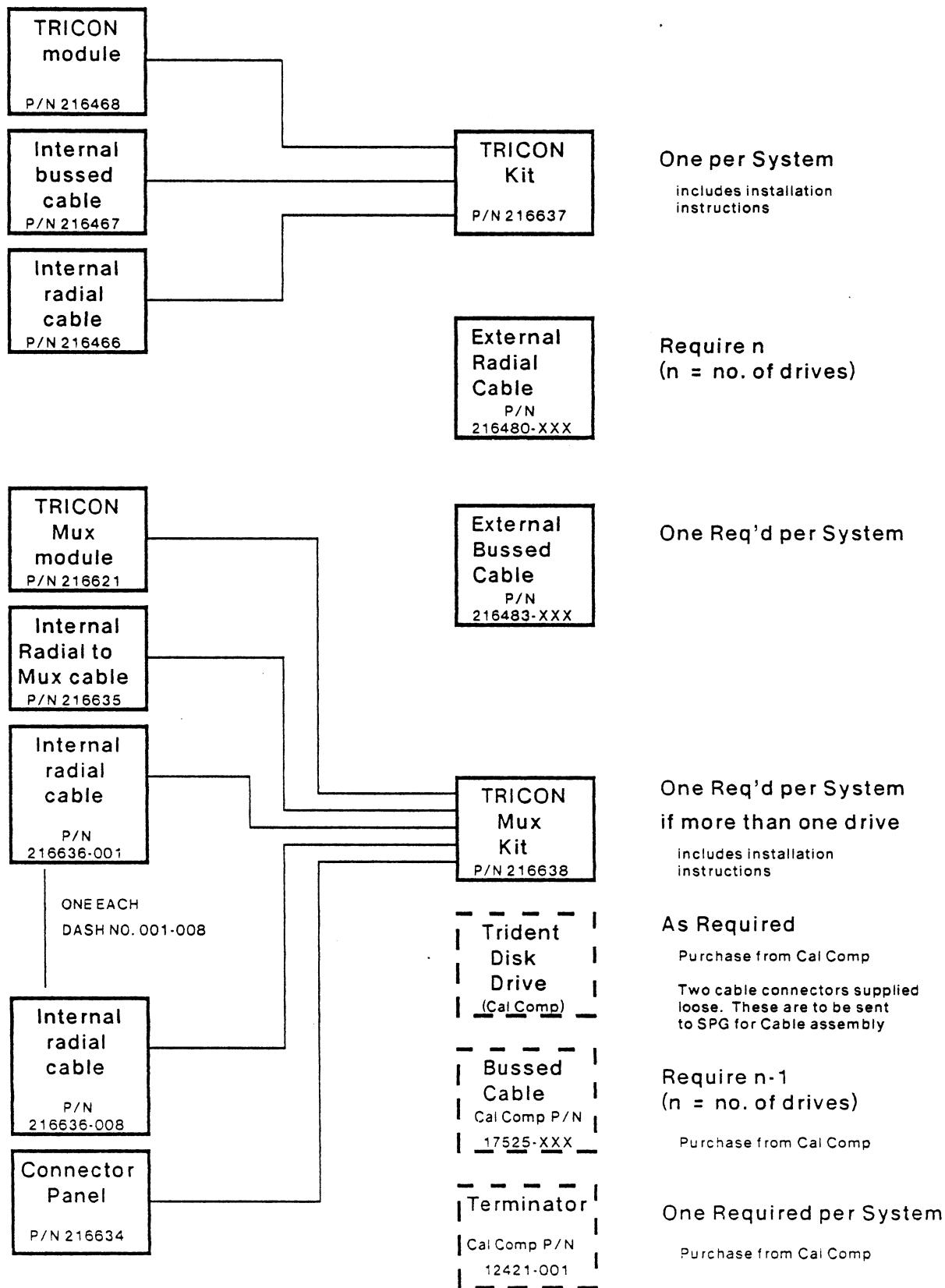
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Sheet 4 Of 5

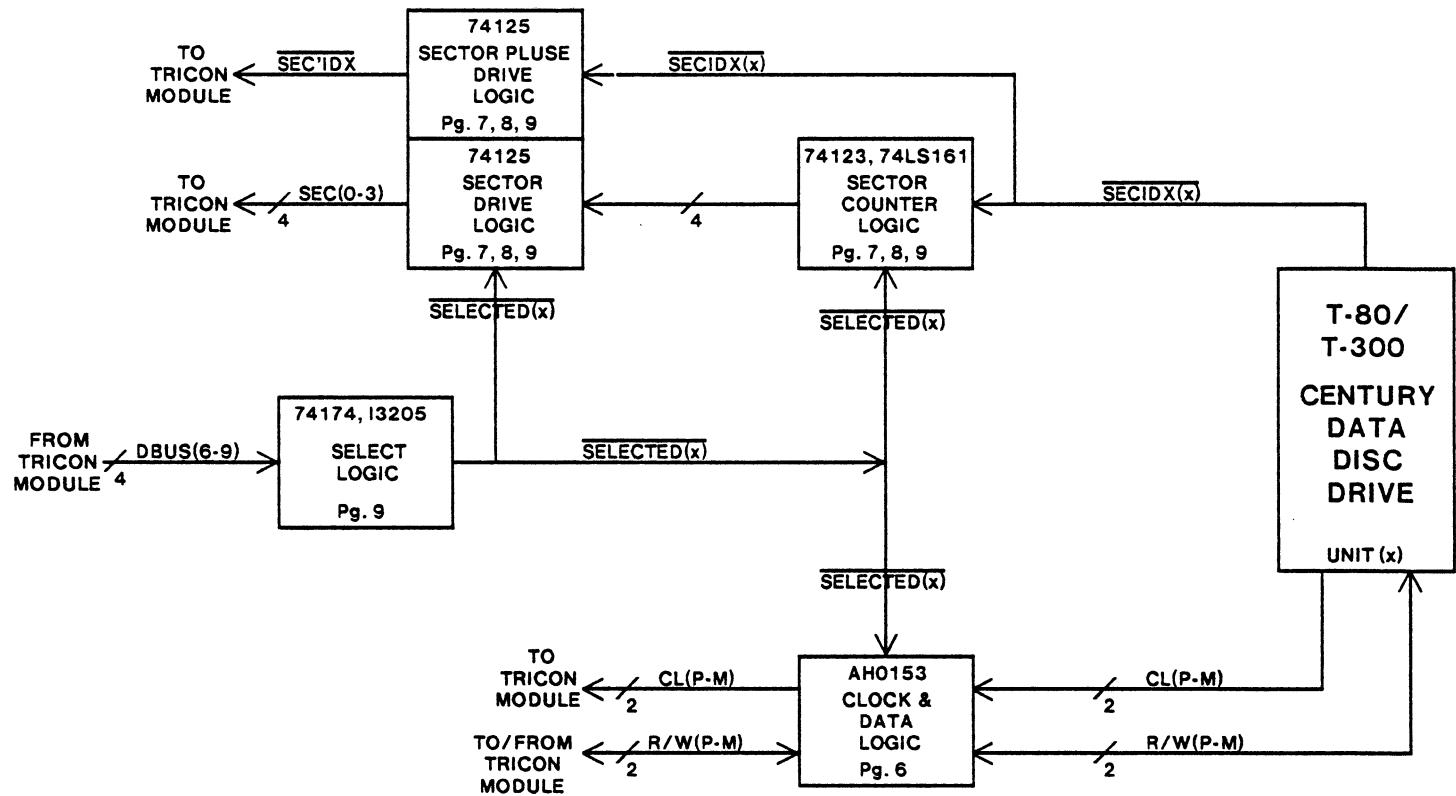
Material List

ML	Drawing No. 216638	Rev. D
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ALTO/TRIDENT DISK SYSTEM CONFIGURATOR



TRICON MULTIPLEXER MODULE
(ONE OF EIGHT CIRCUITS)



NOTE: (x) = 0 THROUGH 7, 1 SIGNAL LINE PER CIRCUIT OR DISC DRIVE.

NOTES: UNLESS OTHERWISE SPECIFIED

1. ASSEMBLE PER MODULE ASSEMBLY SPEC, DWG NO. 216207.

- (2) MAY BE PURCHASED FROM 3M COMPANY, ST PAUL, MINN. VENDOR PART NUMBER.
- (3) MAY BE PURCHASED FROM PENN ENGINEERING & MANUFACTURING CORP, DOYLESTOWN, PENNA. VENDOR PART NUMBER.
- (4) MAY BE PURCHASED FROM AUGAT, INC, ATTLEBORO, MASSACHUSETTS. VENDOR PART NUMBER.
- (5) ITEM 29 (CABLE BRACKET) SUPPLIED AS LOOSE ITEM, INSTALL AT NEXT HIGHER ASSEMBLY.

6 THE FOLLOWING MODIFICATIONS ARE REQUIRED USING "A" REVISION PRINTED WIRING BOARD:

FROM	TO
P1-3	P1-16
P1-10	P1-23
P2-3	P2-16
P2-10	P2-23
P3-3	P3-16
P3-10	P3-23
P4-3	P4-16
P4-10	P4-23
P5-3	P5-16
P5-10	P5-23
P6-3	P6-16
P6-10	P6-23
P7-3	P7-16
P7-10	P7-23
P8-3	P8-16
P8-10	P8-23
A 32-6	A32-8
6A1	12A2
6A2	17A2
6A3	18A9
6A4	17A5
6A5	34A2
6A6	41A2
6A7	41A9
6A9	41A5
27A1	13A1
27A2	8A12
27A3	15A2
27A4	14A9
27A5	26A2
27A6	26A12
27A7	31A9
27A9	44A12

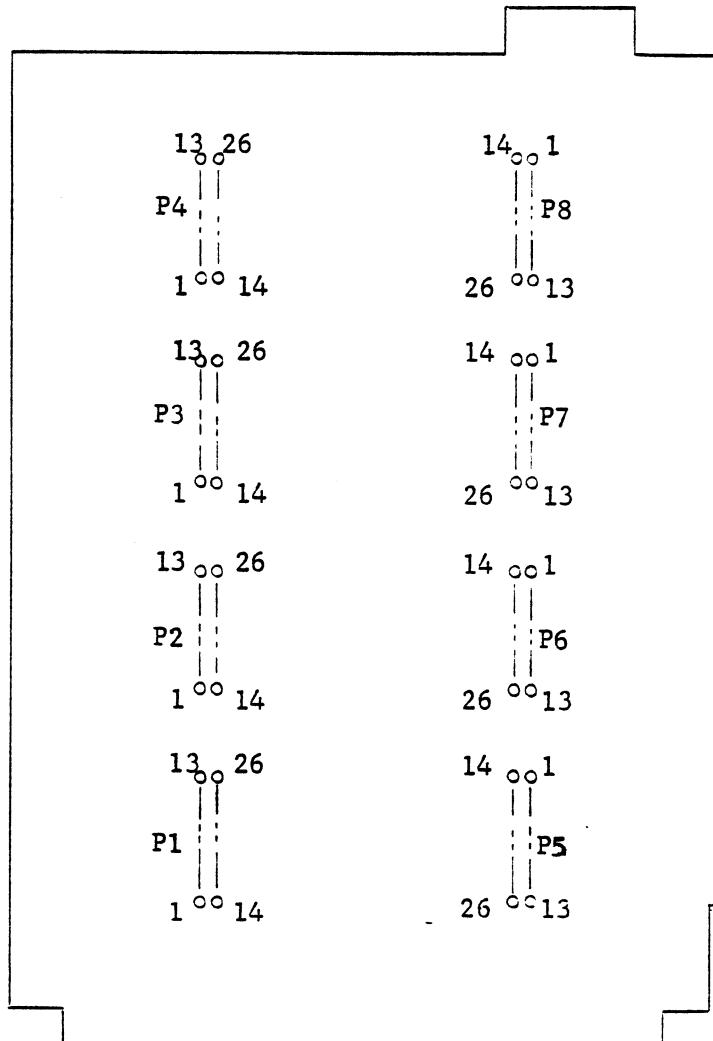


FIGURE I (ETCH SIDE)

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Title

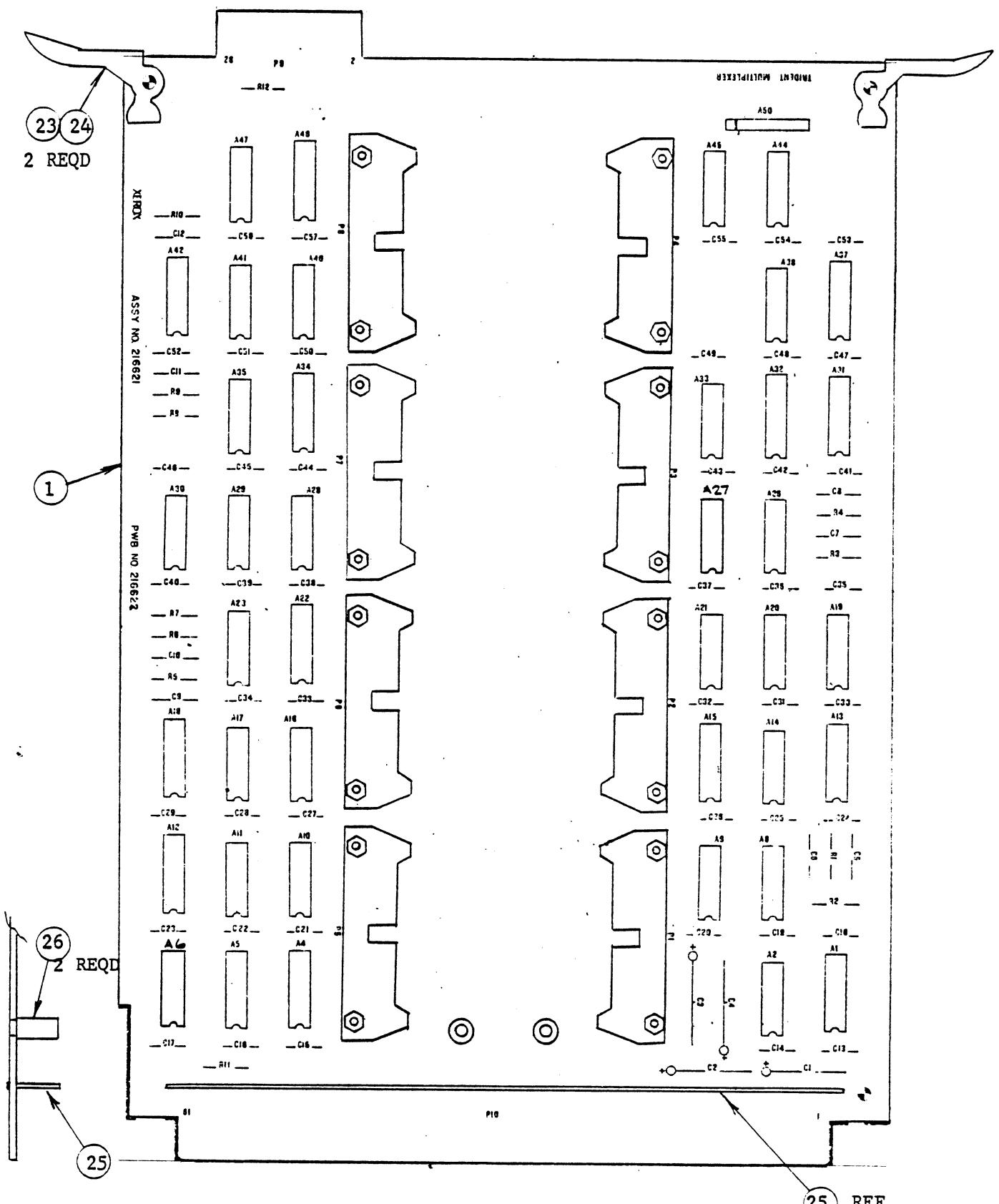
ASSY. PRINTED WIRING-
TRIDENT MULTIPLEXER

Xerox Corporation
El Segundo, California

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Title
ASSY, PRINTED WIRING-
TRIDENT MULTIPLEXER

Xerox Corporation
El Segundo, California

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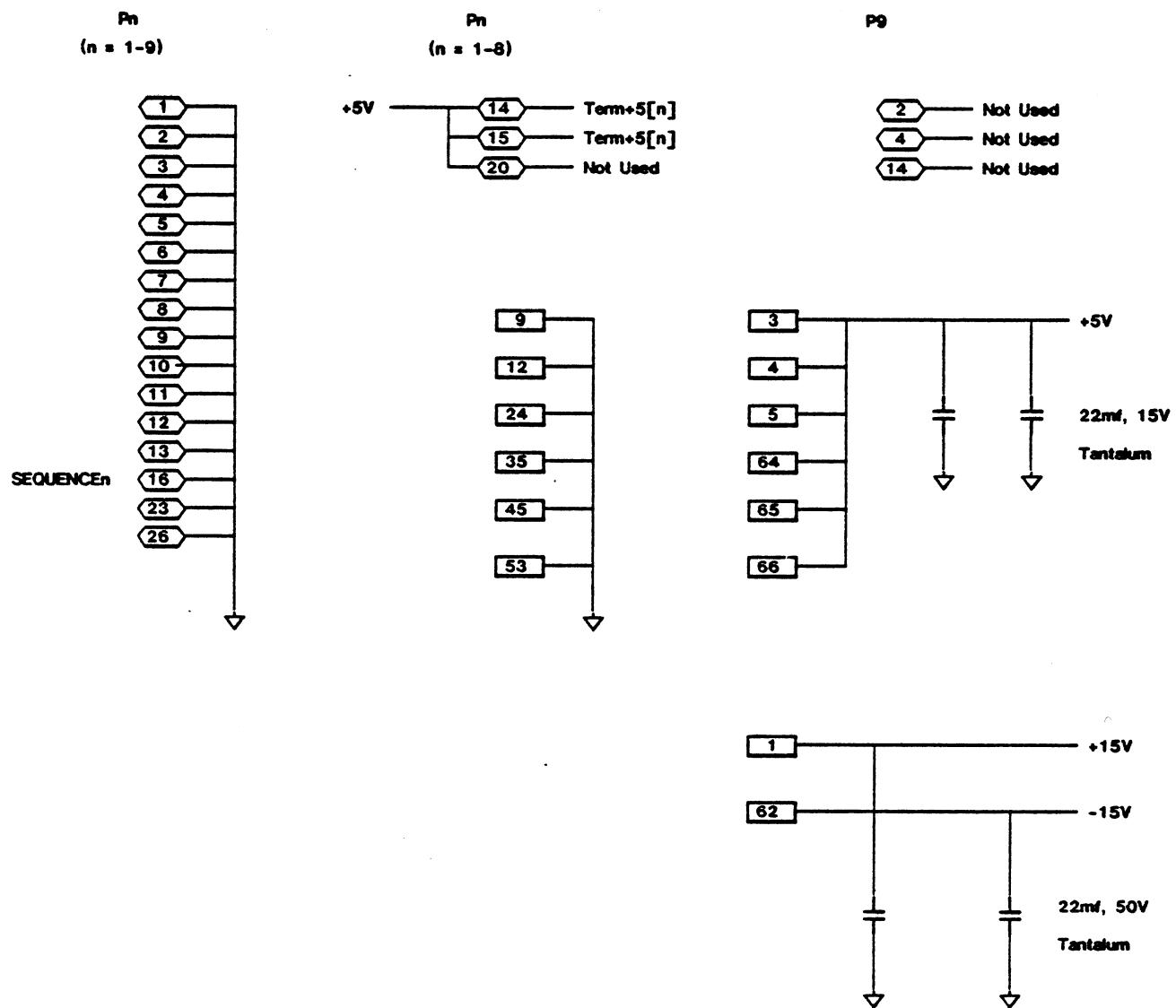
216621

H

Sheet 3 Of 9

aterial List

Rev.	ML	Drawing No.	Rev.
H		216621	H
Drawing No. 216621	Drawing Title ASSEMBLY, PRINTED WIRING- TRIDENT MULTIPLEXER		
ML	Model No. ALTO II	Date 5/5/77	Sheet 4 of 9
Item No.	Drawing Title	Drawing No.	No. Req.
1	BOARD, P.W.	216622	1
2			
3			
4	MICROCIRCUIT, 74LS161		8 A1, 12, 15, 22, 32, 34, 37, 46
5	N123		4 A13, 18, 31, 42
6	N125		12 A2, 8, 11, 14, 17, 23, 26, 35, 38, 41, 44, 47
7	N174		1 A4
8	I3205		1 A5
9	AH0153		8 A9, 10, 16, 21, 28, 33, 40, 45
10	N38		2 A20, 29
11	MICROCIRCUIT, H04		2 A19, 30
12			
13	CAPACITOR, 22μF, 15V	187720-005	2 C1, C2
14	CAPACITOR, 18μF, 50V	123300-186	2 C3, C4
15	CAPACITOR, 330 Pf	191175-031	8 C5, 6, 7, 8, 9, 10, 11, 12
16	CAPACITOR, .01μF, 50V	188483-001	45 C13 THRU C57
17	RESISTOR, NETWORK 220Ω/330Ω (CTS# 761-5-220Ω/330Ω)		2 A6, A27
18	RESISTOR, FILM, 27K ±5%, 1/4W	116447-273	9 R1 THRU R6, R9, 10, 11
19	RESISTOR, FILM, 1K ±5%, 1/4W	116447-102	2 R7, R8
20	RESISTOR, NETWORK, 1K	188600-007	1 A50
21	RESISTOR, FILM, 2.2K ±5%, 1/4W	116447-222	1 R12
22	HEADER (26Pos) 3M# 3429-1002		8 P1-P8 (2)
23	Extractor	216250	2
24	Rivet	156111-005	2
25	Stiffener	216242	1
26	Standoff, Threaded, PEM #KFE-632-16		2 (3)
27	Socket, 14 Pin Augat #514-AG11D		24 (4)
28	Socket, 16 Pin Augat #516-AG11D		16 (4)
29	Bracket, Cable - Trident Mux	216628	1 (5)

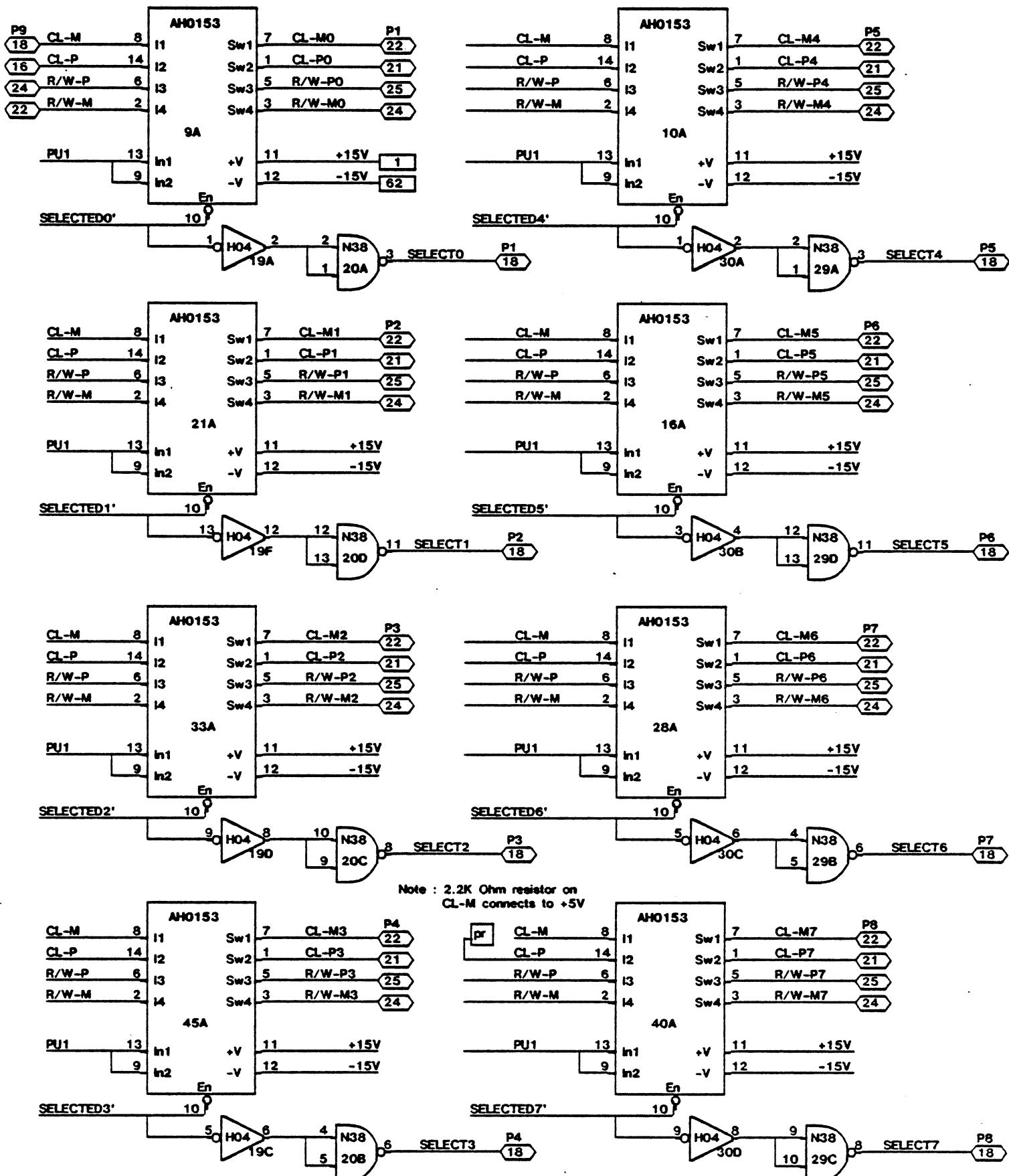


THESE PRINTS ARE FOR REV.'B' ARTWORKS ONLY.

ASSEMBLY,P.W.-TRICON
MULTIPLEXER

Drawing Number
216621

XEROX SPG	Project TRIMUX	EXTERNAL CONNECTORS & VOLTAGE CONNECTIONS	File TRIMUX.SIL05B	Designer Ron Freeman	Rev H	Date 1/16/78	Page 5
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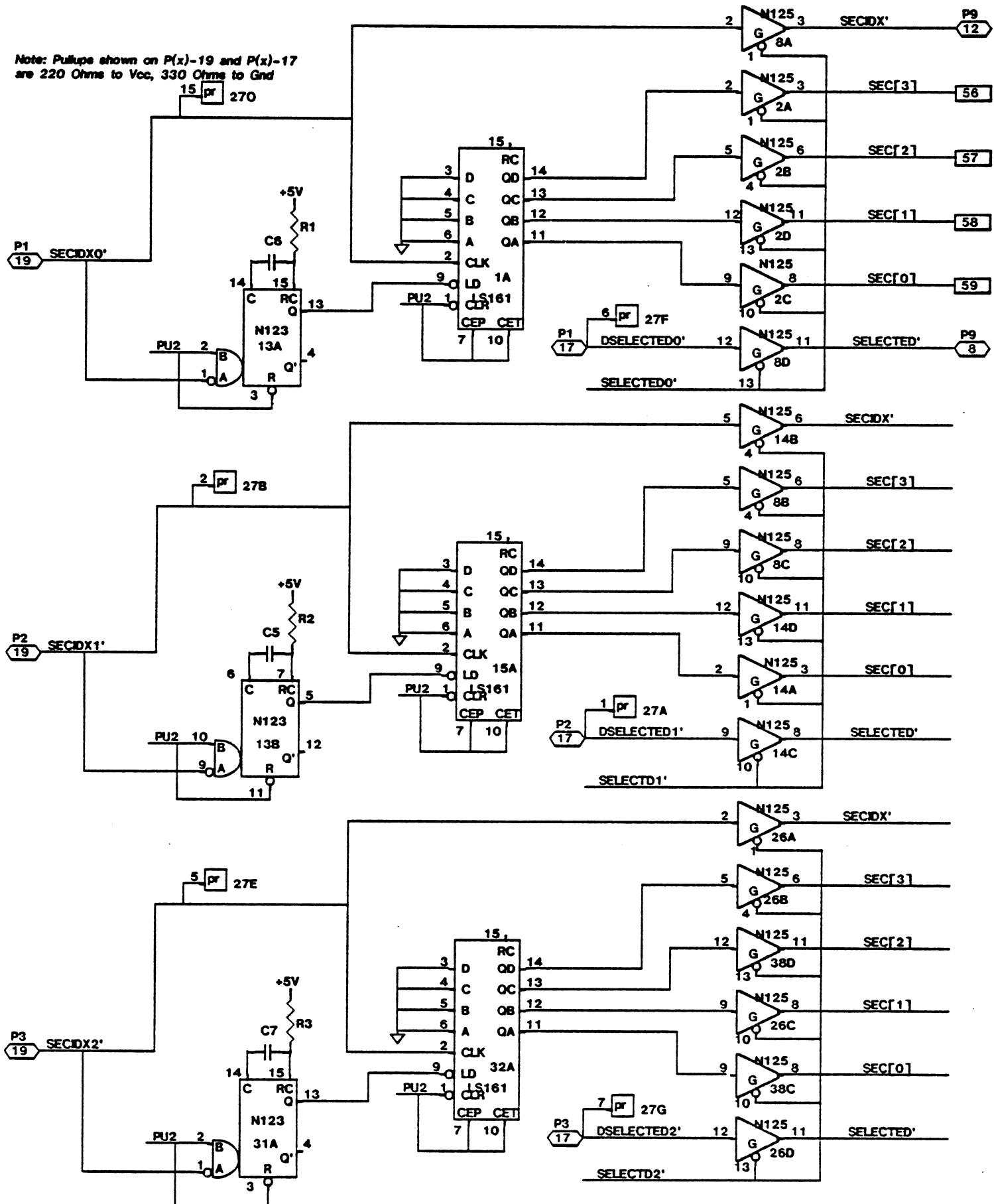
THESE PRINTS ARE FOR REV."B" ARTWORKS ONLY

ASSEMBLY,P.W.-TRICON
MULTIPLEXER

Drawing Number
216621

XEROX SPG	Project TRIMUX	CLOCK AND DATA SWITCHES	File TRIMUX.SIL06B	Designer Ron Freeman	Rev H	Date 1/16/78	Page 6
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Note: Pullups shown on P(x)-19 and P(x)-17
are 220 Ohms to Vcc, 330 Ohms to Gnd

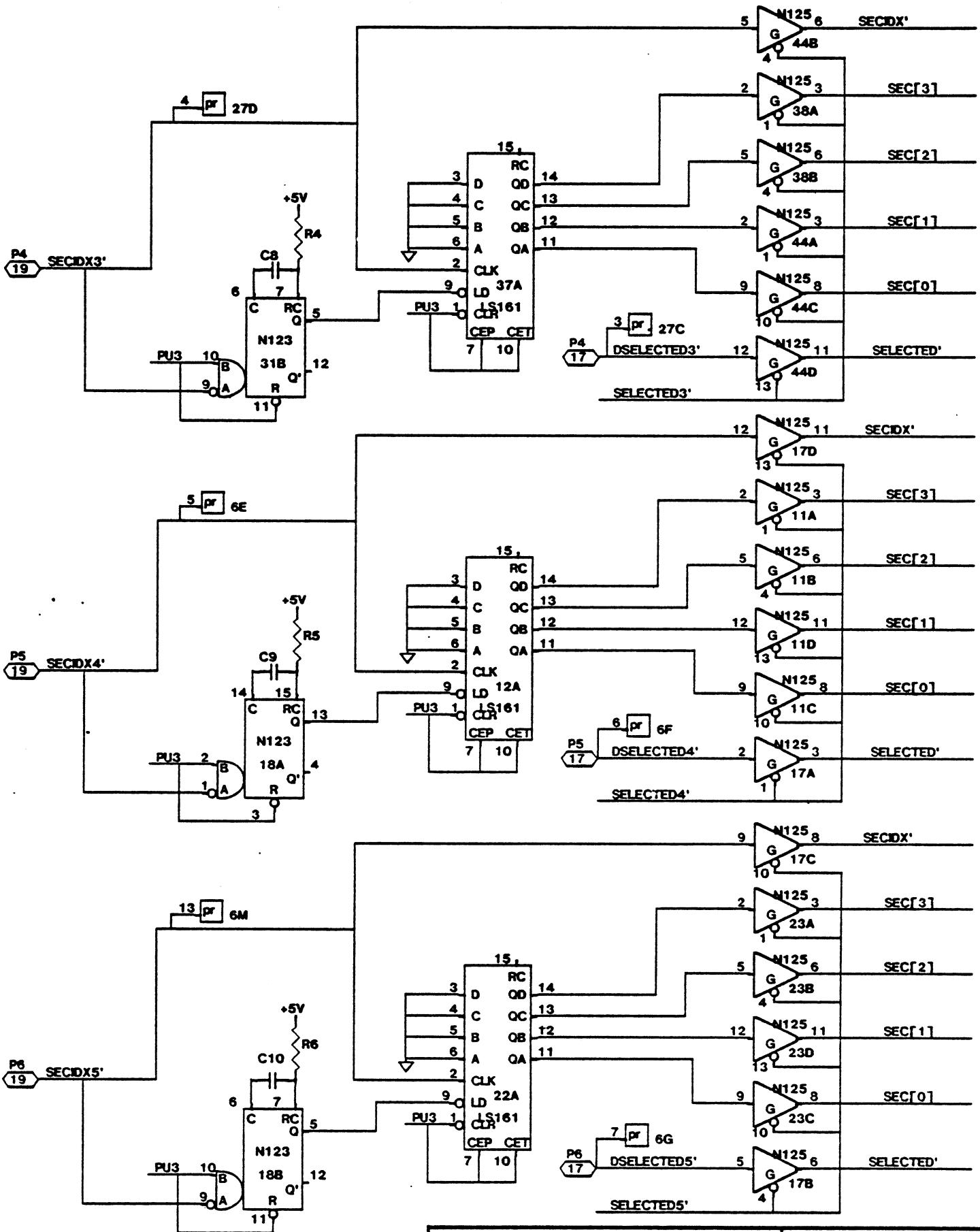


THESE PRINTS ARE FOR REV."B" ARTWORKS ONLY

ASSEMBLY,P.W.-TRICON
MULTIPLEXER

Drawing Number
216621

XEROX SPG	Project TRIMUX	SECTOR COUNTERS	File TRIMUX.SIL07B	Designer Ron Freeman	Rev H	Date 1/16/78	Page 7
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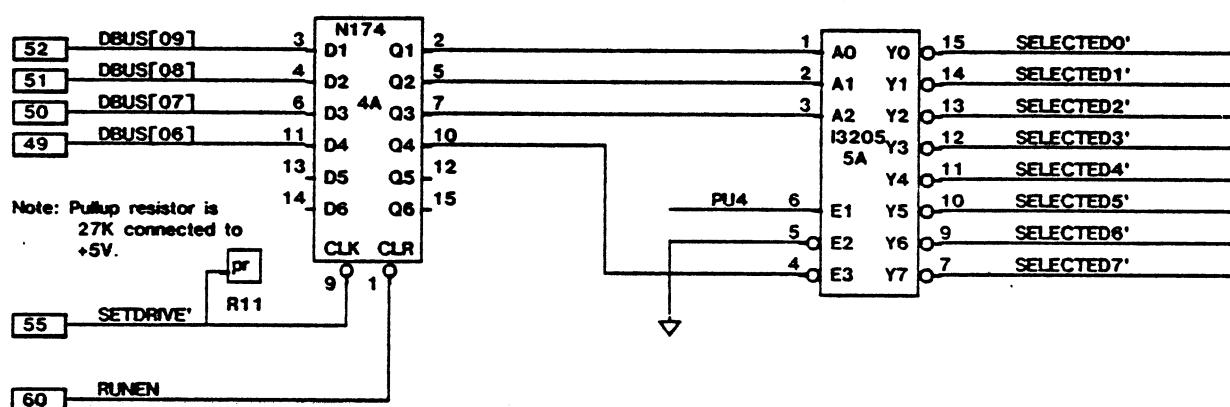
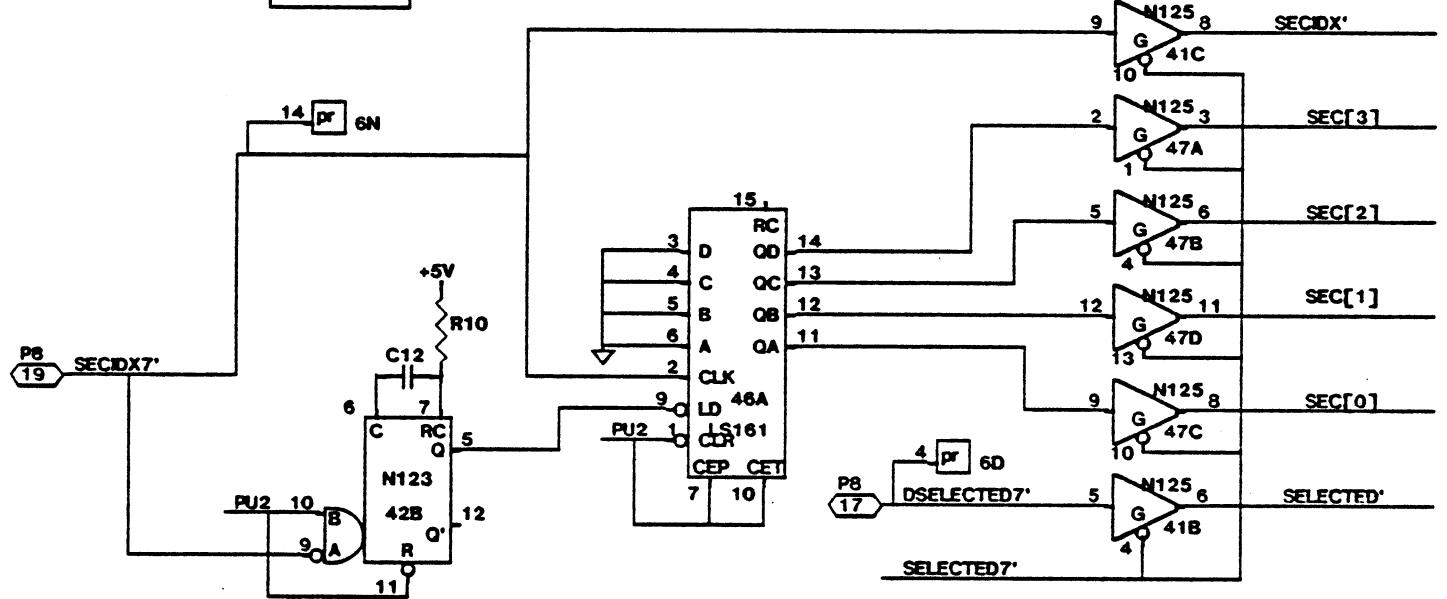
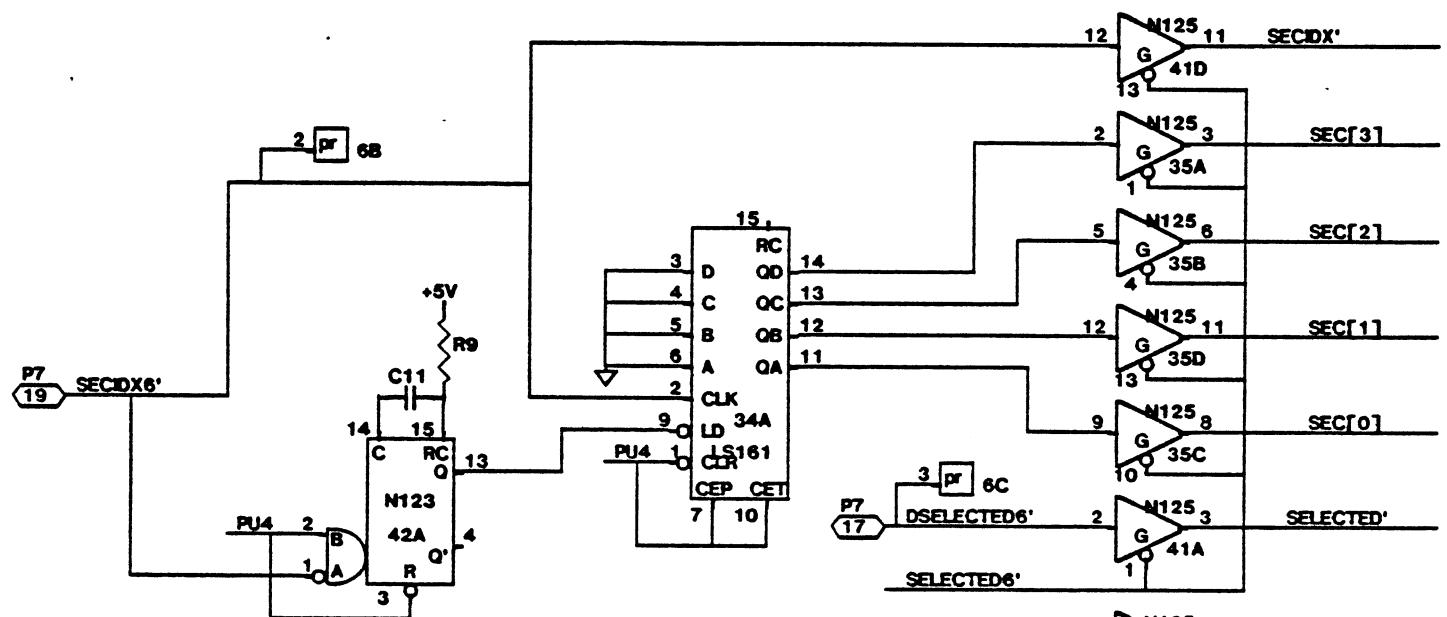


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ASSEMBLY,P.W.-TRICON
MULTIPLEXER

Drawing Number
216621

XEROX SPG	Project TRIMUX	SECTOR COUNTERS	File TRIMUX.SIL08B	Designer Ron Freeman	Rev H	Date 1/16/78	Page 8
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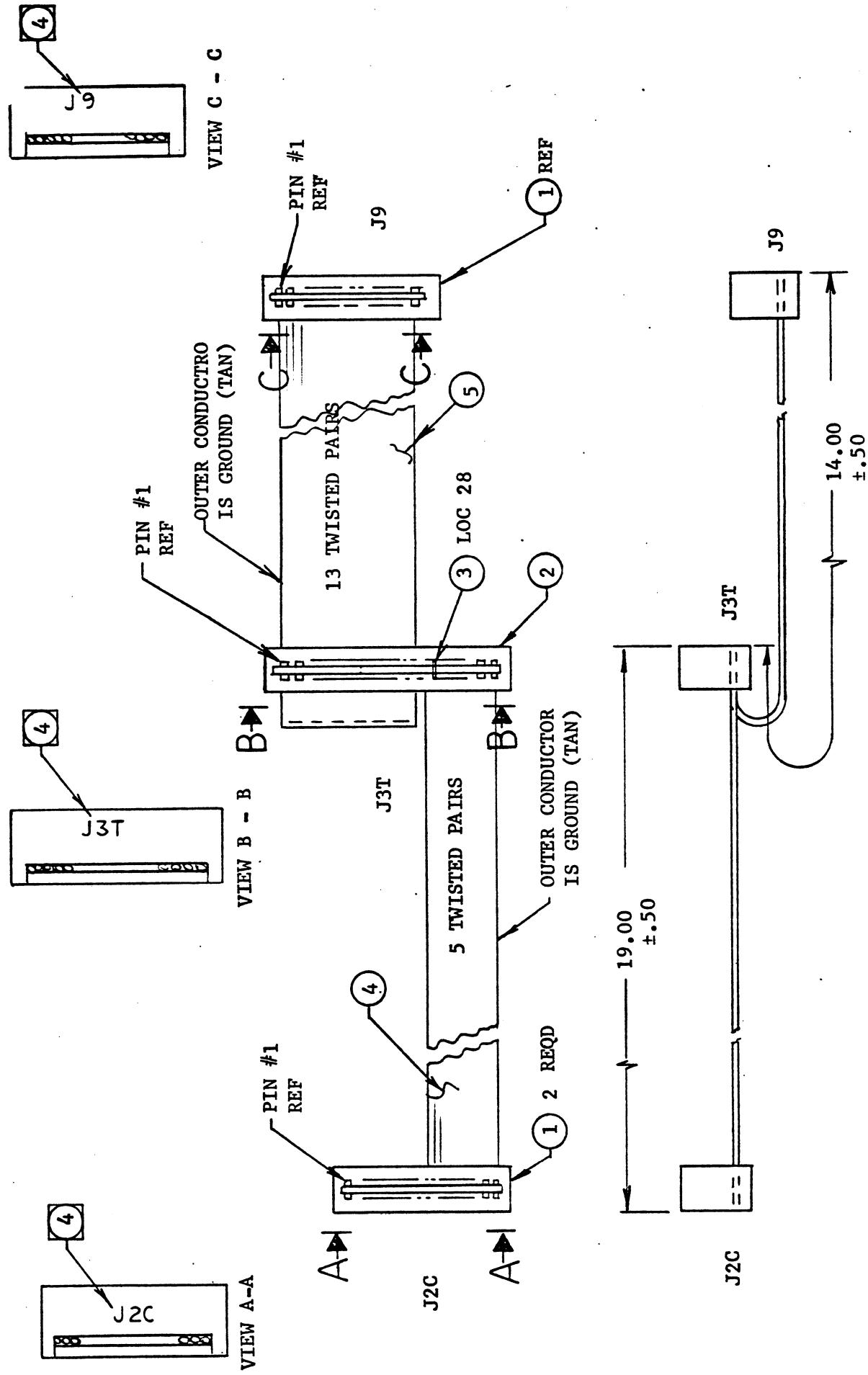


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ASSEMBLY,P.W.-TRICON
MULTIPLEXER

Drawing Number
216621

XEROX SPG	Project TRIMUX	SECTOR COUNTERS	File TRIMUX.SIL09B	Designer Ron Freeman	Rev H	Date 1/16/78	Page 9
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ASSEMBLY, CABLE - TRICON RADIAL TO MUX (INT)

Xerox Corporation El Segundo, California	XEROX
216635	B
Sheet 3	Of 6

Wire No.	Term	From	To	Term	Wire No.	Notes	Signal	Chg. Let.
1	J3T - 1	J9 - 1			5		GND	
2		2	2				TERM+5	
3		3	3				GND	
4		4	4				TERM+5	
5		5	5				GND	
6		6	6				SEQUENCE	
7		7	7				GND	
8		8	8				SELECTED	
9		9	9				GND	
10		10	10				SELECT	
11		11	11				GND	
12		12	12				SEC' IDX	
13		13	13				GND	
14		14	14				N.C.	
15		15	15				GND	
16		16	16				CL- P	
17		17	17				GND	
18		18	18				CL- M	
19		19	19				GND	
20		20	20				GND	
21		21	21				GND	
22		22	22				R/W-M	
23		23	23				GND	
24		24	24				R/W-P	
25		25	25				GND	
26	J3T - 26	J9 - 26			5		GND	

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1. Ref Item No's In Applicable Material List.

2. Ref Designations Are Abbreviated. Prefix Each Designation With:

ASSEMBLY, CABLE -
TRICON RADIAL TO MUX (INT)

XEROX

Xerox Corporation
El Segundo, California

21635 B

Sheet 5 of 6

Wire No.	Term	From	To	Term	Wire No.	Notes	Signal	Chg. Let.
27		J3T - 30	J2C - 17		4		GND	
28		31	18				GND	
29		32	19				<u>WAKER</u>	
30		33	20				GND	
31		34	21				<u>RTSKACT</u>	
32		35	22				GND	
33		36	23				<u>WAKEW</u>	
34		37	24				GND	
35		38	25				<u>WTSKACT</u>	
36		J3T - 39	J2C - 26		4		GND	

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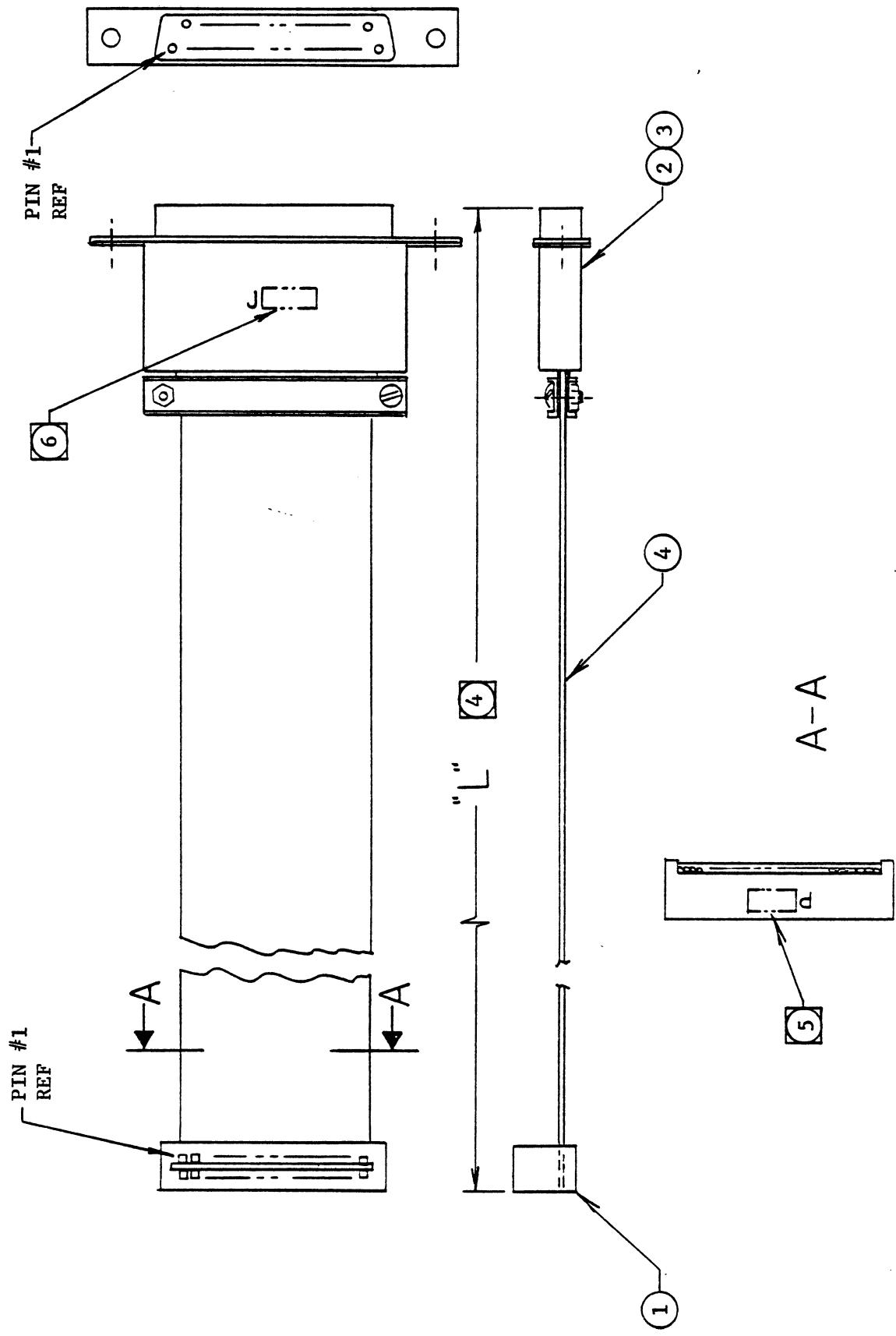
1. Ref Item No's in Applicable Material List.

ASSEMBLY, CABLE -
TRICON RADIAL TO MUX (IN)

Xerox Corporation
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XEROX

Sheet 6 of 6



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Xerox Corporation El Segundo, California	XEROX
216636	D
Sheet 3	or 6

TABULATION CHART

XEROX PART NO.	LENGTH "L"	"J" DESIGNATION	"P" DESIGNATION
216636 - 001	56.5 ±.50 IN.	6 J6 (MUX 0)	5 P1
216636 - 002	53.5 ±.50 IN.	J8 (MUX 1)	P2
216636 - 003	51.0 ±.50 IN.	J9 (MUX 2)	P3
216636 - 004	48.0 ±.50 IN.	J10 (MUX 3)	P4
216636 - 005	54.0 ±.50 IN.	J11 (MUX 4)	P5
216636 - 006	51.0 ±.50 IN.	J12 (MUX 5)	P6
216636 - 007	48.0 ±.50 IN.	J13 (MUX 6)	P7
216636 - 008	45.0 ±.50 IN.	6 J14 (MUX 7)	5 P8

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Title

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El Segundo, California

ASSEMBLY, CABLE - TRIDENT MUX (INT)

XEROX

Sheet 4 or 6
216636 D
112(3/73)

Wire No.	Term	From	To	Term	Wire Type	Notes	Signal	Chg. Let.
1		P (X) - 1	J (X) - 13		4		GND	
2		2	12				GND	
3		3	11				GND	
4		4	10				GND	
5		5	9				GND	
6		6	8				GND	
7		7	7				GND	
8		8	19				GND	
9		9	18				GND	
10		10	17				GND	
11		11	16				GND	
12		12	15				GND	
13		13	14				GND	
14		14	25				TERM+5n	
15		15	24				TERM+5n	
16		16	23				SEQUENCEn (GND)	
17		17	22				-DSELECTEDn	
18		18	21				SELECTn	
19		19	20				SEC'IDKn	
20		20	-				NO CONNECTION	
21		21	6				CL- Pn	
22		22	5				CL- Mn	
23		23	4				GND	
24		24	3				R/W-Mn	
25		25	2				R/W-Pn	
26		P (X) - 26	J (X) - 1		4		GND	

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216636

D
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