



ASSEMBLY NO.	R 21	R 34	R37	R57	R 86	U 7	U14	U 15	RMI-A	RMI-B	C12	C13	C73	C32
75890300	9 8.25	511.0	1.10	8.66	6.81	204	204	204	220.0	330.0	330PF	330PF	—	.001
75890350	4 8.25	511.0	1.10	8.66	3.16	204	204	204	220.0	330.0	330PF	330PF	—	.001
75890400	7 6.81	383.0	619.0	8.66	3.16	210	210	210	220.0	330.0	1000PF	1000PF	1000PF	.001
75890450	2 8.25	511.0	1.10	8.66	3.16	204	204	204	220.0	330.0	330PF	330PF	—	.001
75890500	4 8.25	511.0	1.10	8.66	3.16	204	204	204	220.0	330.0	330PF	330PF	—	.001
75890550	9 8.25	511.0	1.10	8.66	3.16	204	204	204	220.0	330.0	330PF	330PF	—	.001
75890600	2 8.25	511.0	1.10	8.66	3.16	204	204	204	220.0	330.0	330PF	330PF	—	.001
75890650	7 8.25	511.0	1.10	8.66	3.16	204	204	204	220.0	330.0	330PF	330PF	—	.001
75890700	0 8.25	511.0	1.10	8.66	3.16	204	204	204	220.0	330.0	330PF	330PF	—	.001
75890750	5 8.25	511.0	1.10	8.66	3.16	204	204	204	220.0	330.0	330PF	330PF	—	.001
75892500	6 8.25	511.0	1.10	8.66	3.16	204	204	204	220.0	330.0	330PF	330PF	—	.001
77614500	5 8.25	511.0	1.10	8.66	3.16	210	210	210	330.0	NONE	330PF	330PF	—	.001
75896300	3 8.25	511.0	1.10	20.0	3.16	204	204	204	220.0	330.0	330PF	330PF	—	.68
77622600	3 8.25	511.0	1.10	8.66	3.16	204	204	204	220.0	330.0	330PF	330PF	—	.001
77624750	3 8.25	511.0	1.10	8.66	3.16	204	204	204	220.0	330.0	330PF	330PF	—	.001
77636400	8 8.25	511.0	1.10	8.66	3.16	204	204	204	220.0	330.0	330PF	330PF	—	.001

FUNCTION NAME	75890450 75890500 75890600 75890700 75890750 77622660	77614500 75890550	75890400	75892150 75890350 77634450	75896300 75890650	75890300
-WRITE FAULT RESET	46	52	6	48	46	49
-WRITE DATA	18	50	9	42	18	47
-WRITE ENABLE	16	48	10	40	16	45
-LOW CURRENT	10	36	7	44	10	35
*WRITE FAULT	—	—	—	50	—	—
-HEAD LOAD	4	26	8	26	4	25
-DIRECTION	14	—	—	—	14	—
*STEP	12	—	—	—	12	—
-INDEX	8	32	5	28	8	31
-READ DATA COMPOSITE	2	20	14	34	2	19
-TRACK 00	6	28	13	30	6	27
-WRITE FAULT	44	40	4	—	44	39
-READ DATA SEPARATED	38	18	1	—	38	17
-CLOCK SEPARATED	42	22	2	—	—	21
-WRITE PROTECT	36	—	3	—	36	—
-UNIT SELECT 1	20	—	—	—	20	—
-UNIT SELECT 2	22	—	—	—	22	—
-UNIT SELECT 3	24	—	—	—	24	—
-UNIT SELECT 4	26	—	—	—	26	—
-READY 1	28	—	—	—	28	—
-READY 2	30	—	—	—	30	—
-READY 3	32	—	—	—	32	—
-READY 4	34	—	—	—	34	—
-DOOR UNLOCK 1	—	—	—	—	40	—
-DOOR UNLOCK 2	—	—	—	—	42	—
-DOOR UNLOCK 3	—	—	—	—	48	—
-DOOR UNLOCK 4	—	—	—	—	50	—
GROUND	1THRU 49 ODD NO.'S ONLY	1THRU 9, 17THRU 51 ODD ONLY	26THRU 48	1—15 23—49 ODD ONLY	1—49 ODD NO.'S ONLY	2—10 18—50 EVEN ONLY
+5 VOLTS	—	2 & 4	18 & 19	2, 4 & 6	—	1, 3, 7 & 9
+24 VOLTS	—	12 & 14	24 & 25	18, 20 & 22	—	11, 13 & 15
+24 VOLTS RETURN	—	11 & 13	49 & 50	17, 19 & 21	—	12, 14 & 16
-12 VOLTS	—	—	—	14	—	—
-5 VOLTS	—	6	21 & 22	10	—	5
-SECTOR	—	—	—	—	—	—
-STEP IN	—	46	11	38	—	43
-STEP OUT	—	44	12	46	—	41
-SECTOR	—	—	—	—	—	—

NOTES :

UNLESS OTHERWISE SPECIFIED:

1. RESISTOR VALUES ARE IN K-OHMS 1/4W, 1%

2. CAPACITOR VALUES ARE IN MICRO-FARADS

3. SEE TABLE FOR J1 CONNECTOR PIN DESIGNATIONS. ALL OTHER CONN. NOS SHOWN IN BODY OF SCHEMATIC

4. DOTTED BOXES INDICATE OPTIONS

SEE TABLE A FOR COMPONENT VALUES OR I.C. ELEMENT IDENTIFIERS


6. SEE "TABLE B" FOR PWB JUMPER CONFIGURATION

△ THESE PINS RESERVED* VOLTAGES NOT USED

THESE PINS RESERVED; VOLTAGES NOT USED
FOR EXTERNAL COMPONENT INFORMATION SEE SH.6

⚠ FOR EXTERNAL COMPONENT INFORMATION SEE SH. 6

⚠ NOT PRESENT ON 77624750 ASSY CONFIGURATION.

 PRESENT ONLY ON
77624750 ASSY
CONFIGURATION.


 OPTION AVAILABLE
ONLY ON 77630400

Figure 5-2. Schematics (Sheet 2 of 6)

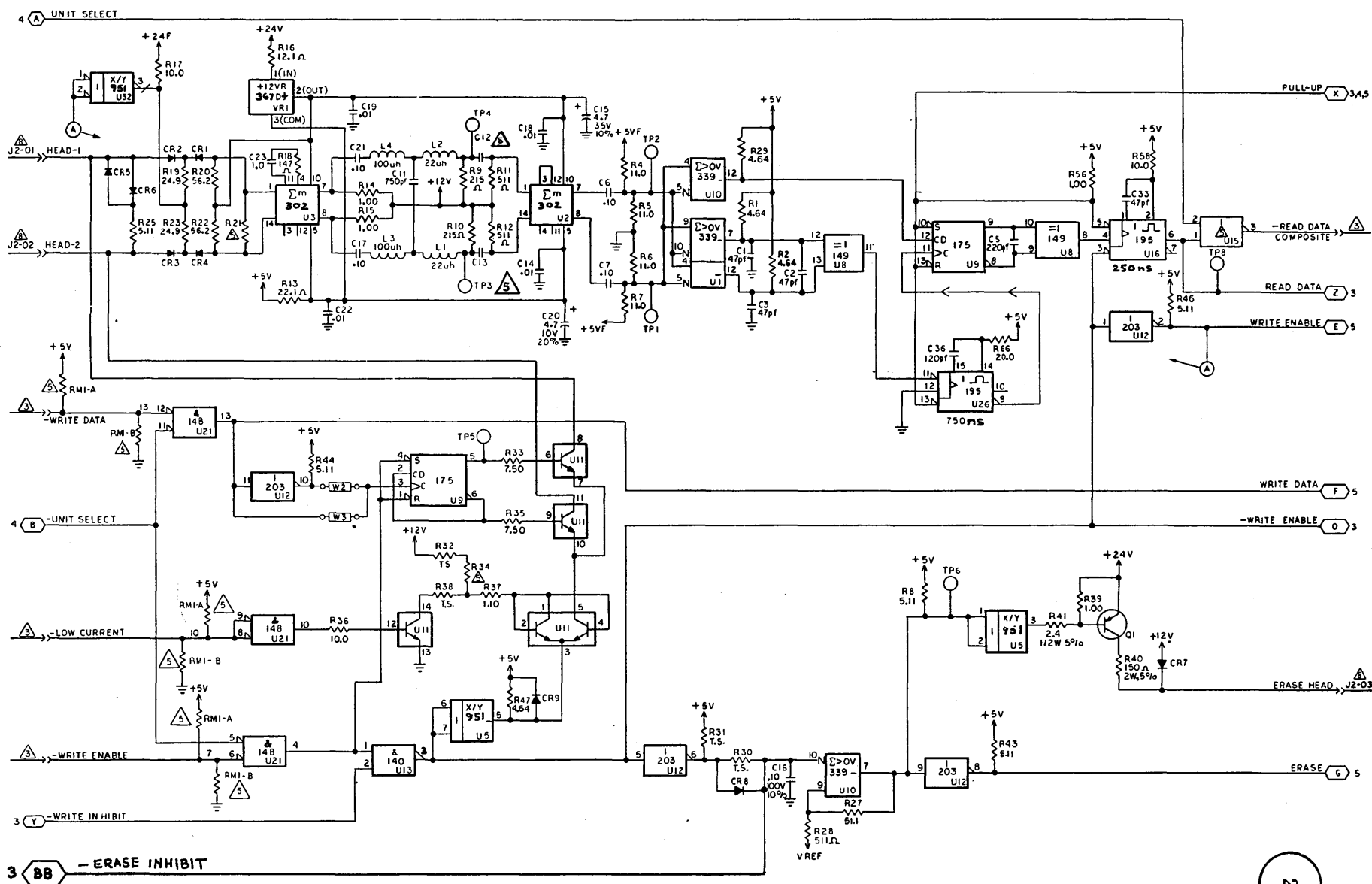


Figure 5-2. Schematics (Sheet 3 of 6)

77834769-U

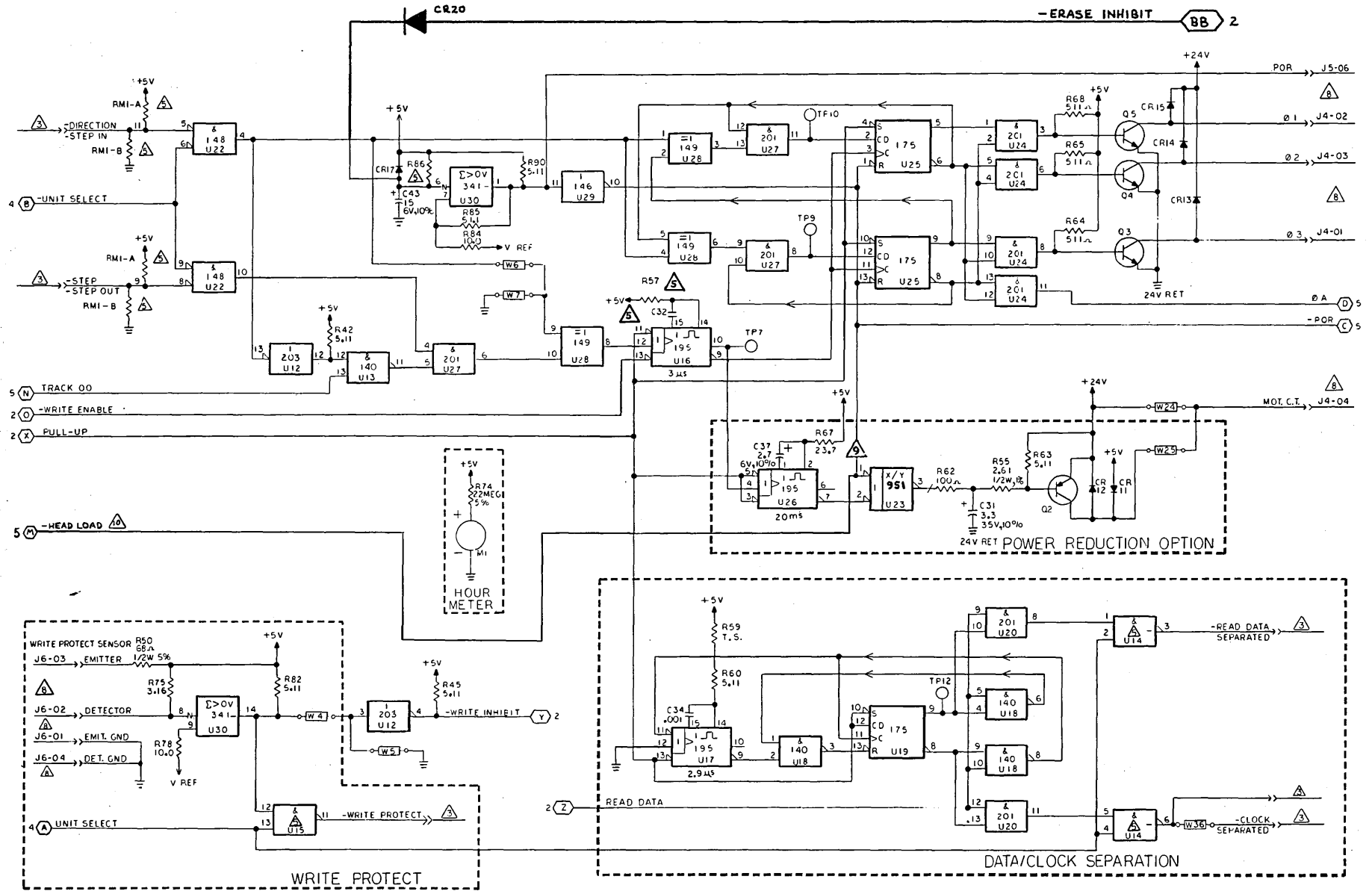


Figure 5-2. Schematics (Sheet 4 of 6)

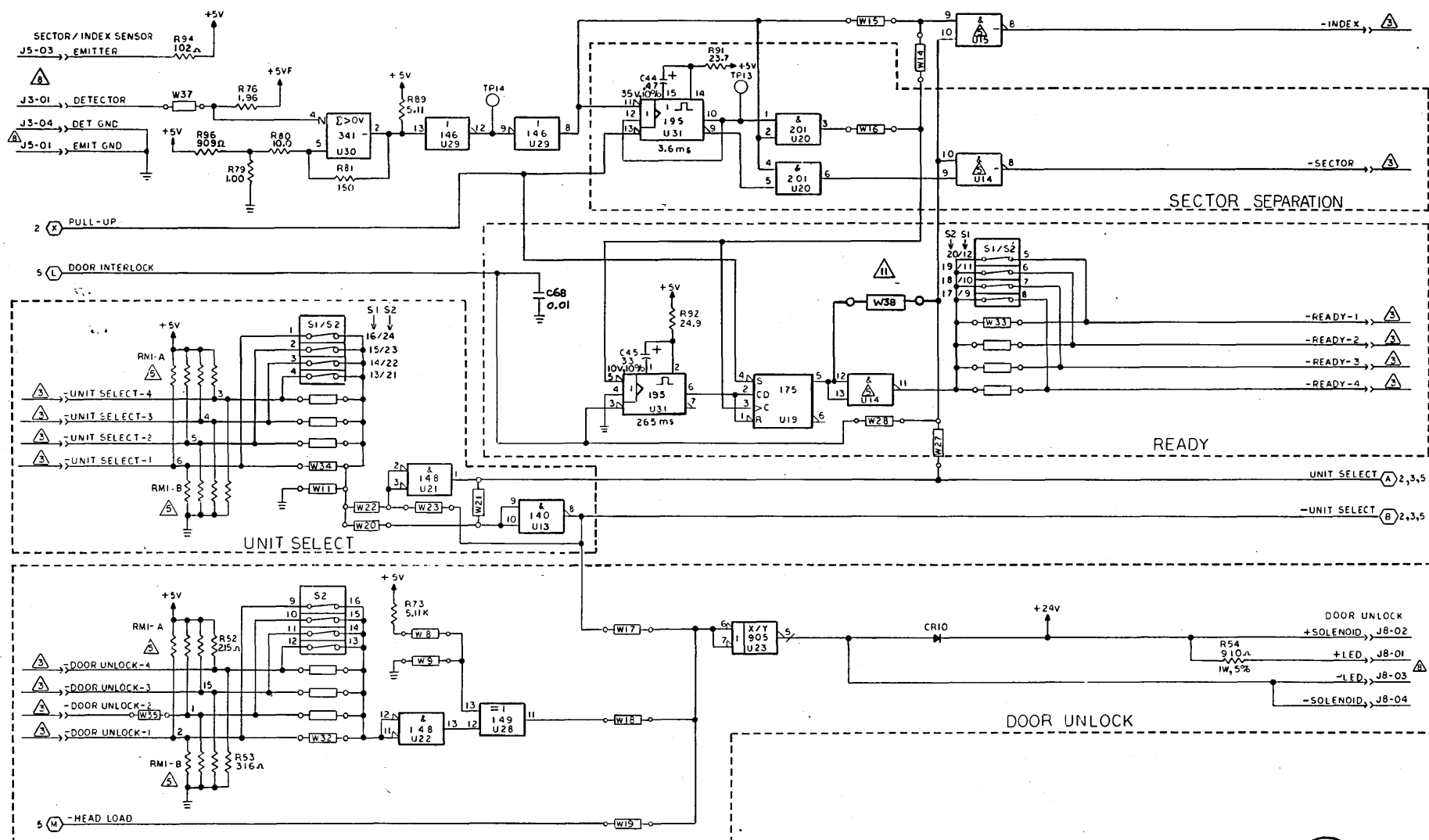


Figure 5-2. Schematics (Sheet 5 of 6)

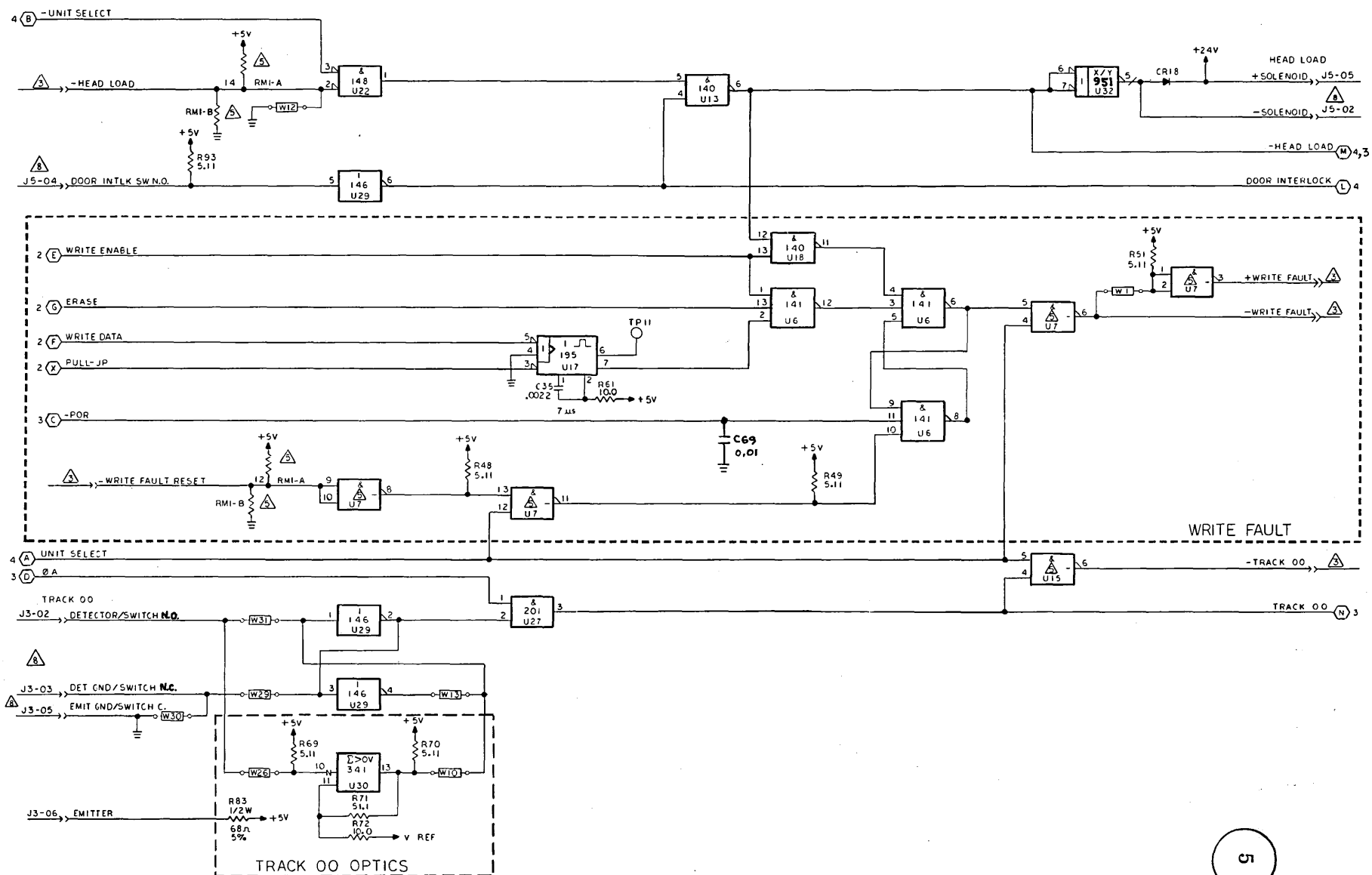
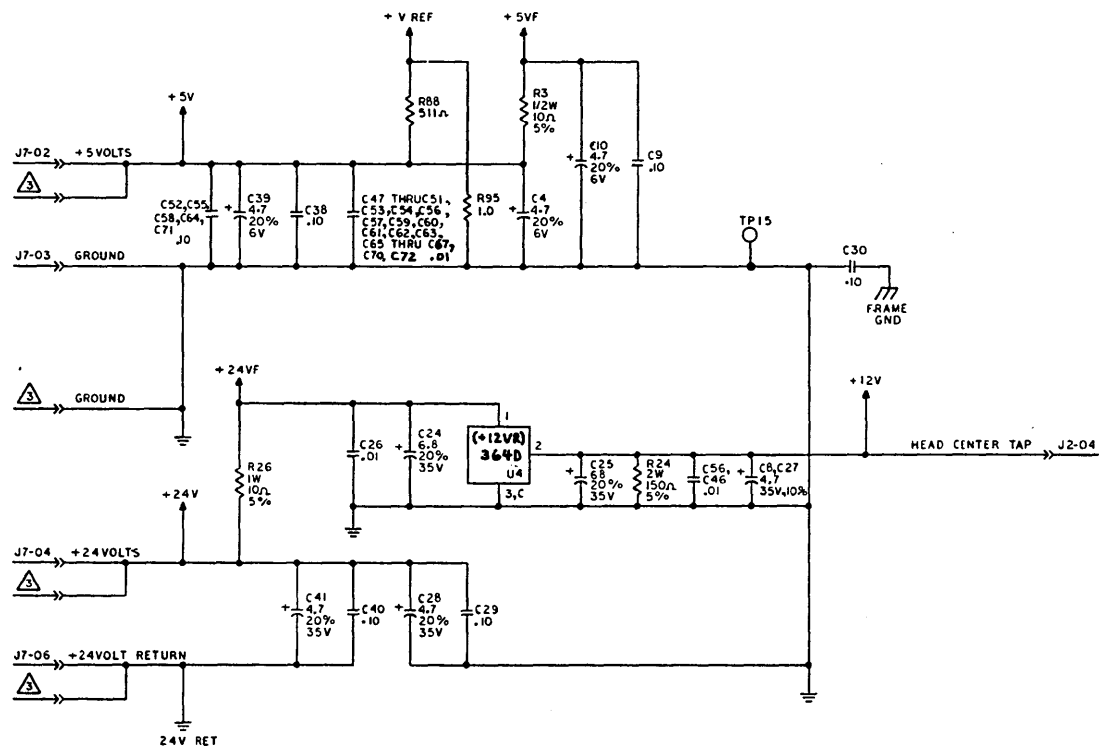


Figure 5-2. Schematics (Sheet 6 of 6)



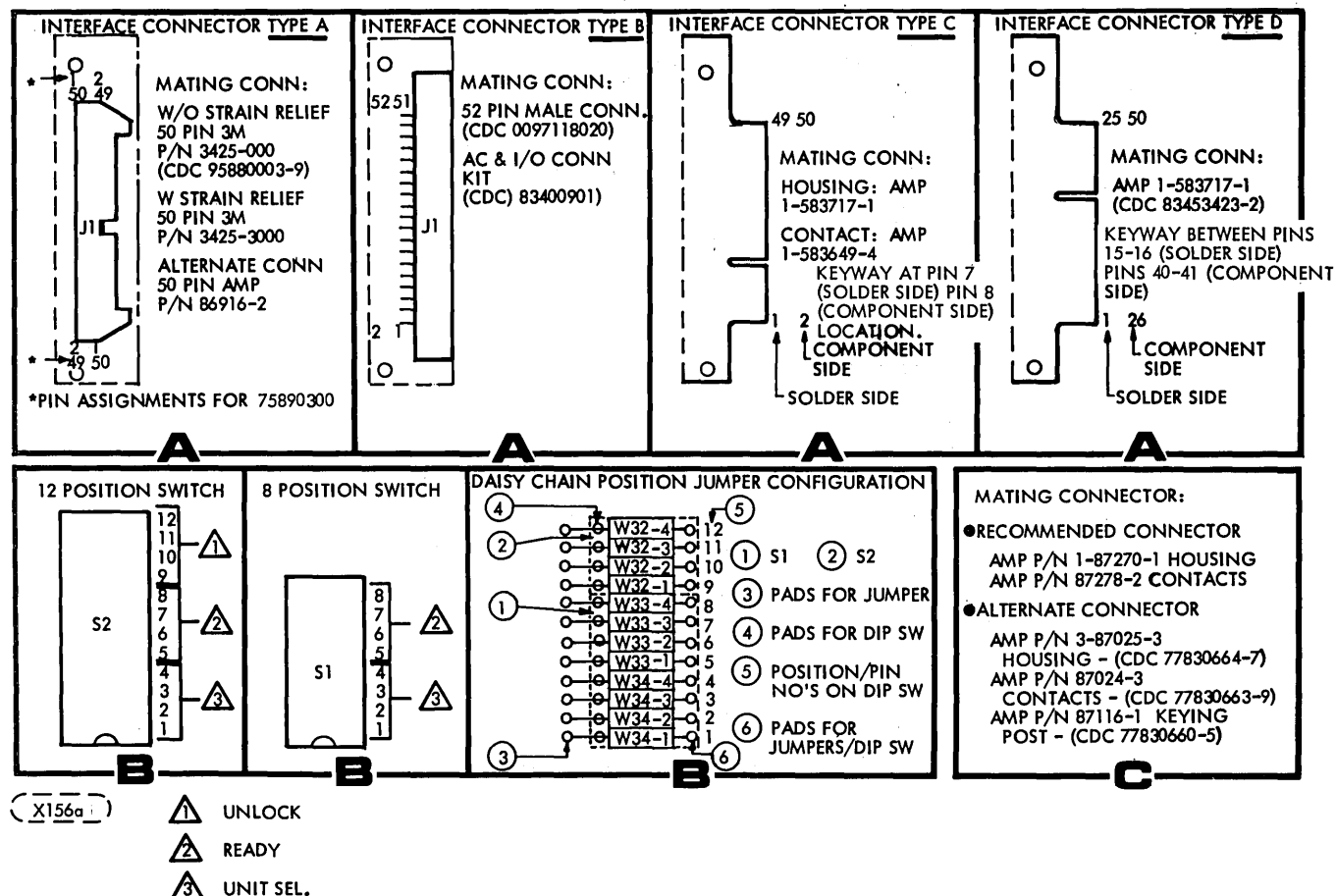
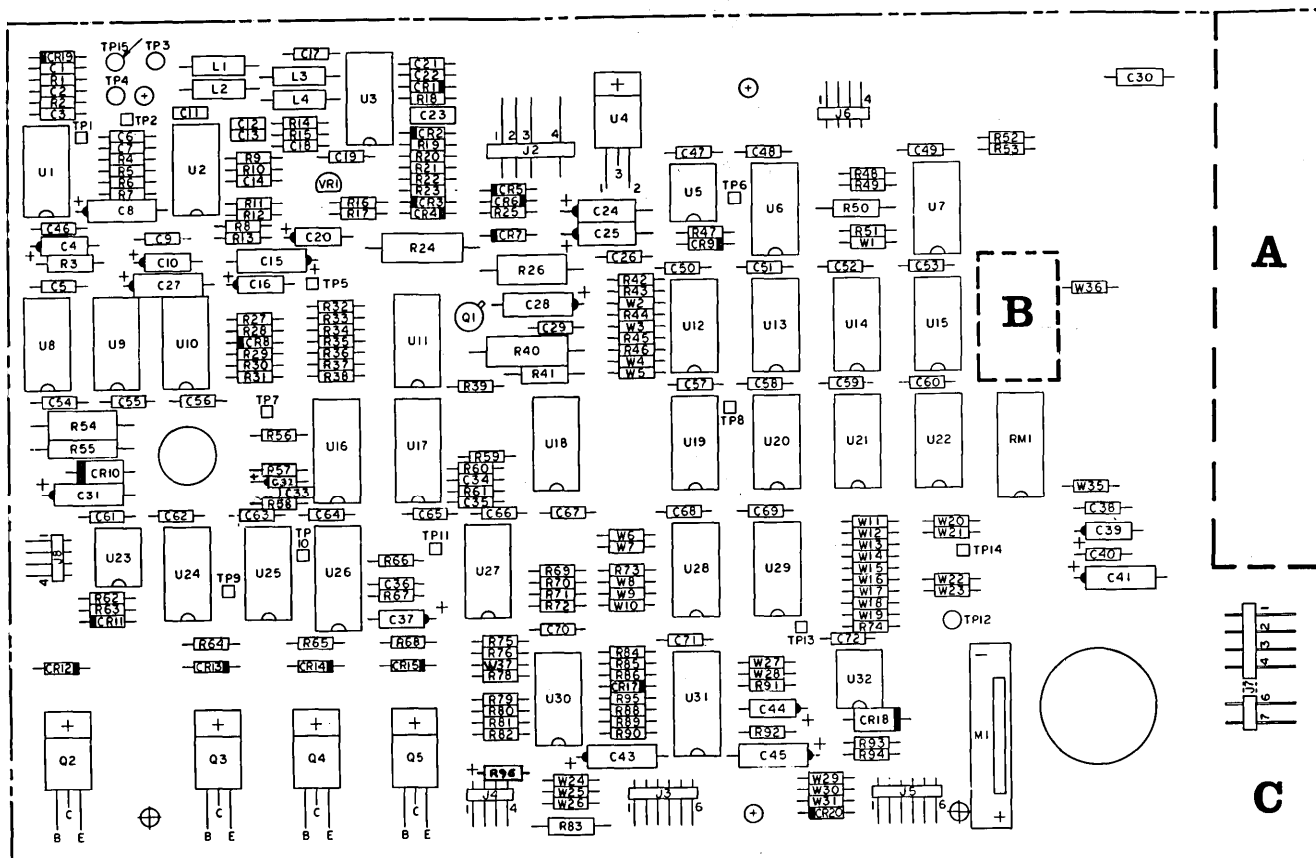


Figure 5-3. Assembly and Parts List (Sheet 1 of 5)

RES	PL ITEM	RES	PL ITEM	CAP	PL ITEM	CAP	PL ITEM	IC	PL ITEM	JMPR	PL ITEM	CONN	PL ITEM
R1	44	R48	52	C1	84	C48		U1	17	W1	106	J1	22
R2	44	R49	52	C2	84	C49		U2	16	W2	106	J2	23
R3	69			C3	84	C50		U3	16	W3		J3	116
R4	57	R51	52	C4	92	C51		U4	19	W4	106	J4	25
R5	57	R52	62	C5	107	C52	76	U5	4	W5	106	J5	24
R6	57	R53	38	C6	76	C53		U6	5	W6	106	J6	25
R7	57	R54	72	C7	76	C54		U7	6**	W7	106	J7	100
R8	52	R55	67	C8	94	C55	76	U8	13	W8	106	J8	101
R9	41	R56	43	C9	76	C56	76	U9	11	W9			
R10	41	R57	53	C10	92	C57		U10	17	W10			
R11	54	R58	35	C11	77	C58	76	U11	18	W11	106		
R12	54	R59	63	C12	79△	C59		U12	7	W12	106	TSTR	PL ITEM
R13	39	R60	52	C13	79△	C60		U13	8	W13	106	Q1	28
R14	43	R61	35	C14	75	C61		U14	6**	W14	106	Q2	27
R15	43	R62	61	C15	94	C62		U15	6**	W15	106	Q3	26
R16	40	R63	52	C16	95	C63		U16	10	W16	106	Q4	26
R17	35	R64	54	C17	76	C64	76	U17	10	W17	106	Q5	26
R18	78	R65	54	C18	75	C65		U18	8	W18	106		
R19	60	R66	45	C19	75	C66		U19	11	W19			
R20	36	R67	55	C20	85	C67		U20	12	W20	106	SW	PL ITEM
R21	37#	R68	54	C21	76	C68	82	U21	9	W21	106	S1	32
R22	36	R69	52	C22	75	C69	82	U22	9	W22	106	S2	33
R23	60	R70	52	C23	80	C70		U23	4	W23	106		
R24	71	R71	50	C24	96	C71	76	U24	12	W24	106		
R25	52	R72	36	C25	96	C72	76	U25	11	W25	106		
R26	73	R73	52	C26	82	C73	123	U26	10	W26			
R27	50			C27	94			U27	12	W27	106		
R28	54			C28	102			U28	13	W28	106		
R29	44	R76	42	C29	76	DIO	PL ITEM	U29	14	W29	106		
R30	63	R77		C30	81	CR1	29	U30	15	W30			
R31	63	R78	35	C31	98	CR2	29	U31	10	W31	106		
R32	63	R79	43	C32	87..	CR3	29	U32	4	W32			
R33	46	R80	35	C33	83	CR4	29			W33			
R34	54##	R81	58	C34	87	CR5	29	RES	PL ITEM	W34			
R35	46	R82	52	C35	88	CR6	29	MOD	ITEM	W35	106		
R36	35			C36	86	CR7	29	RM 1	20###	W36	106		
R37	47△△△	R84	35	C37	93	CR8	29			W37	106		
R38	63	R85	50	C38	76	CR9	29			W38	106		
R39	43	R86	51*	C39	92	CR10	30						
R40	71	R87		C40	76	CR11	31	MET	PL ITEM	IND	PL ITEM		
R41	70	R88	54	C41	102	CR12	31			L1	65		
R42	52	R89	52	C42		CR13	31			L2	65		
R43	52	R90	52	C43	91	CR14	31			L3	64		
R44	52	R91	55	C44	97	CR15	31	REG	PL ITEM	L4	64		
R45	52	R92	60	C45	90	CR16							
R46	52	R93	52	C46	76	CR17	29	VR1	74				
R47	44	R94	56	C47	89	CR18	30						
		R95	43			CR19	31						
		R96	119			CR20	114						

X155a

*EXCEPT 77890300 WHICH IS ITEM 118
 **EXCEPT 77890400 AND 77614500 WHICH IS ITEM 121
 #EXCEPT 77890400 WHICH IS ITEM 118
 ##EXCEPT 77890400 WHICH IS ITEM 120
 ###EXCEPT 77614500 WHICH IS ITEM 122.
 • EXCEPT 75896300 WHICH IS ITEM 45
 .. EXCEPT 75896300 WHICH IS ITEM 124

△ EXCEPT 75890400 WHICH IS ITEM 123

△△△ EXCEPT 75890400 WHICH IS ITEM 125

Figure 5-3. Assembly and Parts List (Sheet 2 of 5)

Item No.	Part Number	Description	Remarks
2	75890320-7	PWB Improved FDD - Std	(6)
2	75890370-2	PWB Improved FDD - H	(7)
2	75890420-5	PWB Improved FDD-D/G	(8)
2	75890770-3	PWB Improved FDD-P	(10)
2	77624770-2	PWB Improved FDD-D/S	(11)
2	75890570-7	PWB Improved FDD-N	(9)
4	15161600-0	IC 75461 Driver, Dual Peripheral	
5	66299100-9	IC 7410 Triple 3-Input NAND	
6	15158300-2	IC 7438 Quad 2-Input NAND Buffer (OC)	(1)
7	15161300-7	IC 7405 Hex Invert (Open Collector)	
8	66299099-3	IC 7400 Quad 2- Input NAND	
9	66299103-3	IC 7402 Quad 2-Input NOR	
10	15104301-5	IC 9602 MV, Dual Retrigger TTL	
11	96744156-9	IC 7474 TTL Dual D Type F/F	
12	88897000-1	IC 7408 TTL Quad 2-Input AND	
13	88885700-0	IC 7486 TTL Quad 2-Input Exclusive OR	
14	39389700-4	IC 7404 TTL Hex Inverter	
15	95794600-7	IC LM339 Comparator, Quad	
16	15163100-9	IC 733C	
17	15161800-6	IC LM319 Comparator, Dual	
18	77832315-4	IC 3086 Transistor Array, 3 Single 1 current	
19	15161100-1	78M12 Voltage Regulator	
20	95894500-8	Res Pac 220/330	
21	94260301-0	Socket 16 Pin	(2)
21	51848401-1	Socket 16 Pin	(5)
22	94359504-1	Header-Flat Cable	(3)
22	75773900-8	Header-Right Angle	(4)
23	75772401-8	Connector Hdr	
24	75743719-9	Header-Right Angle	
25	75743717-3	Header-Right Angle	
26	77836043-8	Transistor T1P120	
27	77836044-6	Transistor T1P125	
28	77835186-6	Transistor 2N2907A	
29	51736700-9	Diode 1N914A	
30	56142000-1	Diode-Silicon	
31	94616400-1	Diode	
32	83452205-4	Switch-8 Position	
33	83452209-6	Switch-12 Position	
35	94360400-9	Res 1/4W 1% 10.0K	
36	94360472-8	Res 1/4W 1% 56.2K	
37	94360388-6	Res 1/4W 1% 8.25K	
38	94360248-2	Res 1/4W 1% 316	
39	94360133-6	Res 1/4W 1% 22.1	
40	94360108-8	Res 1/4W 1% 12.1	
41	94360232-6	Res 1/4W 1% 215	
42	94360328-2	Res 1/4W 1% 1.96K	
43	94360300-1	Res 1/4W 1% 1.0K	
44	94360364-7	Res 1/4W 1% 4.64K	
45	94360429-8	Res 1/4W 1% 20.0K	
46	94360384-5	Res 1/4W 1% 7.50K	
47	94360304-3	Res 1/4W 1% 1.10K	
50	94360468-6	Res 1/4W 1% 51.1K	
51	94360448-8	Res 1/4W 1% 31.6K	

Figure 5-3. Assembly and Parts List (Sheet 3 of 5)

<u>Item No.</u>	<u>Part Number</u>	<u>Description</u>	<u>Remarks</u>
52	94360368-8	Res 1/4W 1% 5.11K	
53	94360390-2	Res 1/4W 1% 8.66K	
54	94360268-0	Res 1/4W 1% 511	
55	94360436-3	Res 1/4W 1% 23.7K	
56	94360201-1	Res 1/4W 1% 102	
57	94360404-1	Res 1/4W 1% 11.0K	
58	94360517-0	Res 1/4W 1% 150K	
60	94360438-9	Res 1/4W 1% 24.9K	
61	94360200-3	Res 1/4W 1% 100	
62	94360232-6	Res 1/4W 1% 215	
63	94357500-1	Resistor Test Select	
64	75887607-2	Inductor 5% 100 UH	
65	75887599-1	Inductor 5% 22 UH	
67	92577340-0	Res 1/2W 1% 2.61K	
68	24500235-9	Res 1/2W 5% 68	
69	24500115-1	Res 1/2W 5% 10	
70	24500172-2	Res 1/2W 5% 2.4K	
71	24504843-4	Res 2W 5% 150	
72	24507162-6	Res 1W 5% 910	
73	24507101-4	Res 1W 5% 10	
74	83452805-1	78L12 AWC Volt Reg.	
75	92496227-7	Cap 100V 20% .01UF	
76	94361400-8	Cap 50V +80-20% 0.10UF	
77	94227247-7	Cap 100V 2% 750	
78	94360216-9	Res 1/4W 1% 147	
79	94227238-6	Cap 100V 2% 330	
80	77830567-2	Cap 25V + 80 -20% 1.0UF	
81	75890977-4	Cap 100V 0.10 UF	
82	75808537-7	Cap 100V 10% 0.01 UF	
83	94227218-8	Cap 500V +/- 1 PF 47	
84	75808509-6	Cap 100V 10% 47	
85	24504346-8	Cap 10V 20% 4.7UF	
86	75808514-6	Cap 100V 10% 120	
87	75808525-2	Cap 100V 10% 1000	
88	75808529-4	Cap 100V 10% 2200	
90	17706718-8	Cap 10V 10% 33 UF	
91	24505263-4	Cap 6V 10% 15 UF	
92	24504310-4	Cap 6V 20% 4.7UF	
93	24505254-3	Cap 6V 10% 2.7UF	
94	24505237-8	Cap 35V 10% 4.7 UF	
95	75808549-2	Cap 100V 10% 0.10UF	
96	24504339-3	Cap 35V 20% 6.8UF	
97	24505225-3	Cap 35V 10% .47UF	
98	24505235-2	Cap 35V 10% 3.3UF	
100	77600000-2	Right Angle Header	

Figure 5-3. Assembly and Parts List (Sheet 4 of 5)

<u>Item No.</u>	<u>Part Number</u>	<u>Description</u>	<u>Remarks</u>
101	77600002-8	Right Angle Header	
102	24504337-7	Cap 35V 20% 4.7UF	
103	10125103-1	Scr Nut-Hex Mach 4-40	
104	10126400-0	Washers Ext Tooth Lo	
105	93640012-6	Stud-Self Clinching	
106	94358500-0	Lead, Electrical	
106	77832252-9	Lead, Electrical	Intch
107	75808517-9	Cap 100V 10% 220	
113	92498021-2	Terminal, Swaged	
114	77612009-9	Diode, 1N770	
115	94360348-0	Res 1/4W 1% 3.16K	
116	75743718-1	Header-Right Angle	
118	94360380-3	Res 1/4W 1% 6.81K	
119	94360292-0	Res 1/4W 1% 909	
120	94360256-5	Res 1/4W 1% 383	
121	88885600-2	IC 7437	
122	75738655-2	Resistor Module	
123	94227250-1	Cap 100V 2% 1000	
124	38879326-7	Cap 50V 20% 0.68 UF	
125	94360276-3	Res 1/4W 1% 619	

NOTES:

- (1) Not Used on 75890400 & 77614500
- (2) Used on 75890600 & 75890750 Only
- (3) Not Used on 75890300, 75890350, 75890550, 75892150 & 77614500.
- (4) Used on 75890550 & 77614500 Only
- (5) Used on 75890450, 75890500, 75890650, 75890700
- (6) Used on 75890300 Only
- (7) Used on 75890350 & 75892150 Only
- (8) Used on 75890400 Only
- (9) Used on 75890550 & 77614500 Only
- (10) Used on 75890450, 75890500, 75890600, 75890650, 75890700 & 75890750 Only
- (11) Used on 77624750 Only

Figure 5-3. Assembly and Parts List (Sheet 5 of 5)