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FIELD MAINTENANCE PRINT SET

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B-TC-RL02-0-1
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D-IC-RL02-0-3 (Sheet 2 Only)

Power Panel Assembly

D-AD-7012130-0-0

Read/Write Board

D-UA-5413536-0-0 (Sheet 1 Only)
B-PL-5413536-0-0
D-CS-5413536-0-1

Front Panel

D-UA-5411846-0-0 (Sheet 1 Only)
B-PL-5411846-0-0
D-CS-5411846-0-1

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D-CS-5411848-0-1

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A-PL-5414025-0-0
D-CS-5414025-0-1

RL02 Disk Drive Assembly
Power Panel Assembly

K-PL-RL02-0-DBP
K-PL-7012130-0-DBP

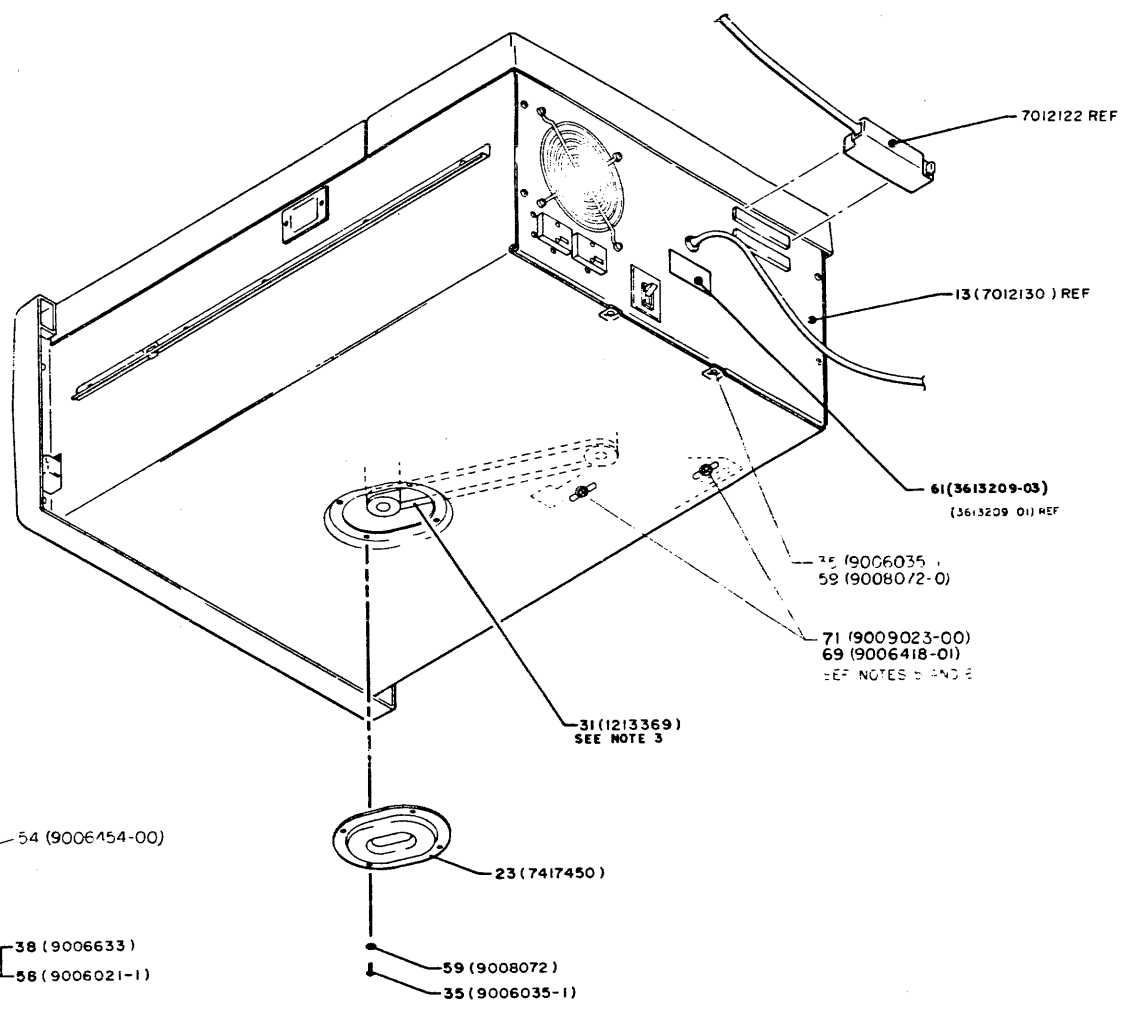
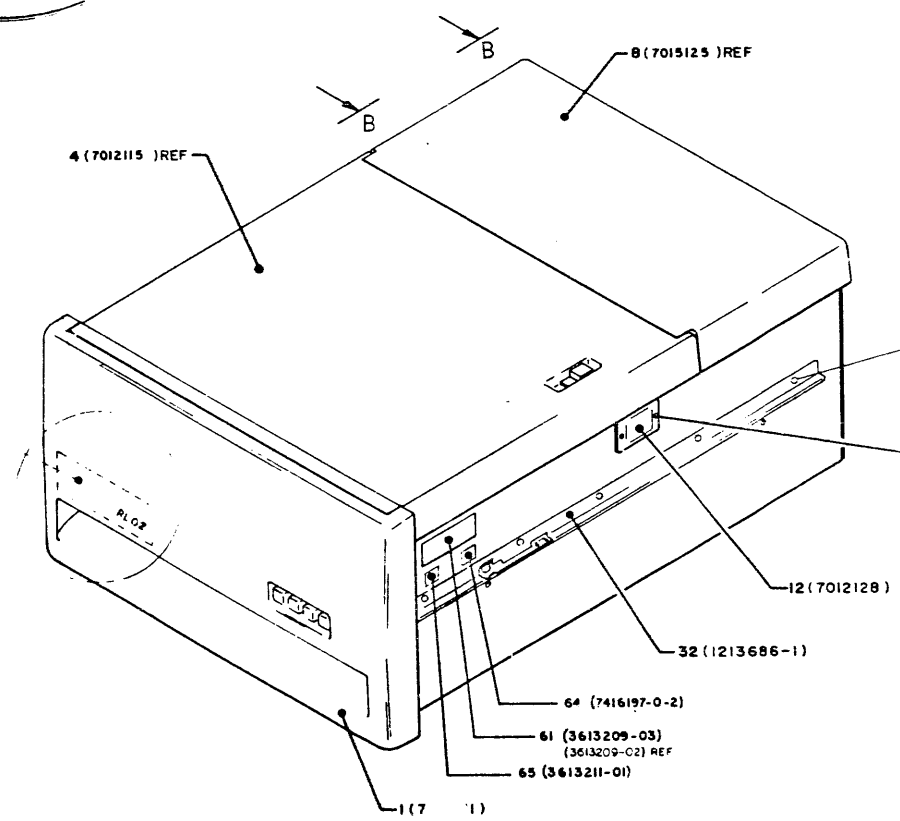
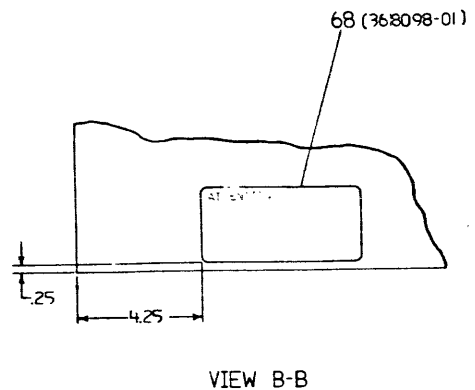
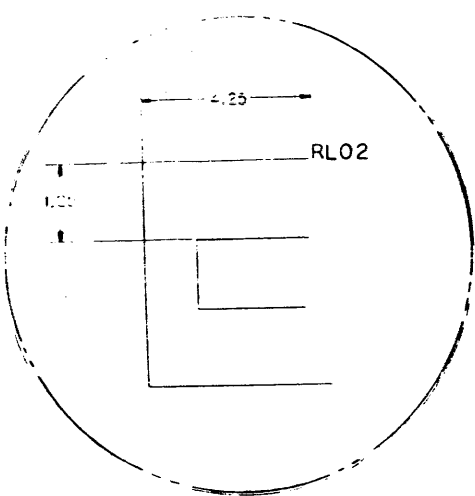
UNIT VARIATIONS
COVERED BY THIS
PRINT SET

RL02
Field Maintenance
Print Set

Digital Equipment
Corporation

PRINT SET NO.
MP00553

REVISIONS	REV	CHG. NO.	DATE	USED ON OPTION/MODEL	DRN.	DATE	TITLE: RL02 DISK DRIVE							
		RL02-CX005	23 Aug 77	RL02	R. Richard	23 Aug 78	digital							
		B. MILLER			CHK'D	DATE								
		RL02-CX007	28 Nov 79		W. Main	6 Jun 79								
					PROJ. ENG.	DATE	SIZE	CODE	NUMBER				REV.	
					FIELD SERV.	DATE	B	TC	RL02-0-1				B	
							DIST.							
SHEET 1 OF 1					Clay Mares		6 Jun 79							

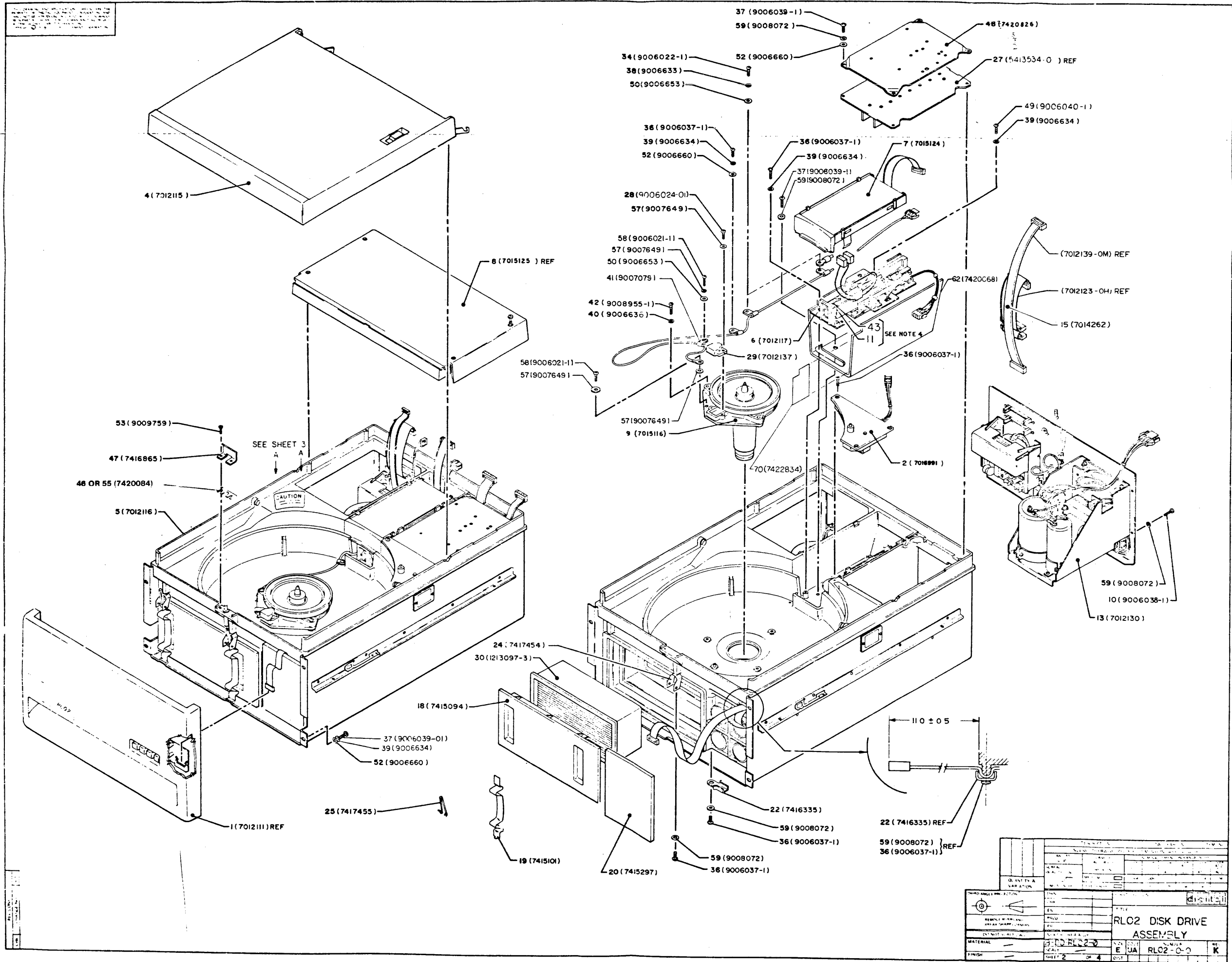


- NOTES**
1. LOWER HEAD (ITEM 65) SHALL BE POSITIONED REAR ARDS AGAINST PIN IN CARRIAGE
 2. ALL SCREWS TO BE TIGHTENED AS FOLLOWS:
 4-40 SCREW, TORQUE 3.5 ± 0.5 IN LBS
 6-32 " " 5.0 ± 1.0 " "
 8-32 " " 10.0 ± 1.0 " "
 10-32 " " 18.0 ± 2.0 " "
 3. DRIVE BELT TENSION 10.0 ± 1.0 LBS.
 4. 4-40 HEAD MOUNTING BOLTS TO BE TIGHTENED TO 5.25 IN. LBS.
 5. TORQUE 8-32 SELF TAPPING HARDWARE (ITEM 69) TO $.6-18$ IN LBS.
 6. BLOWER HOUSING SECURING HARDWARE TO BE REMOVED BEFORE OPERATING UNIT.

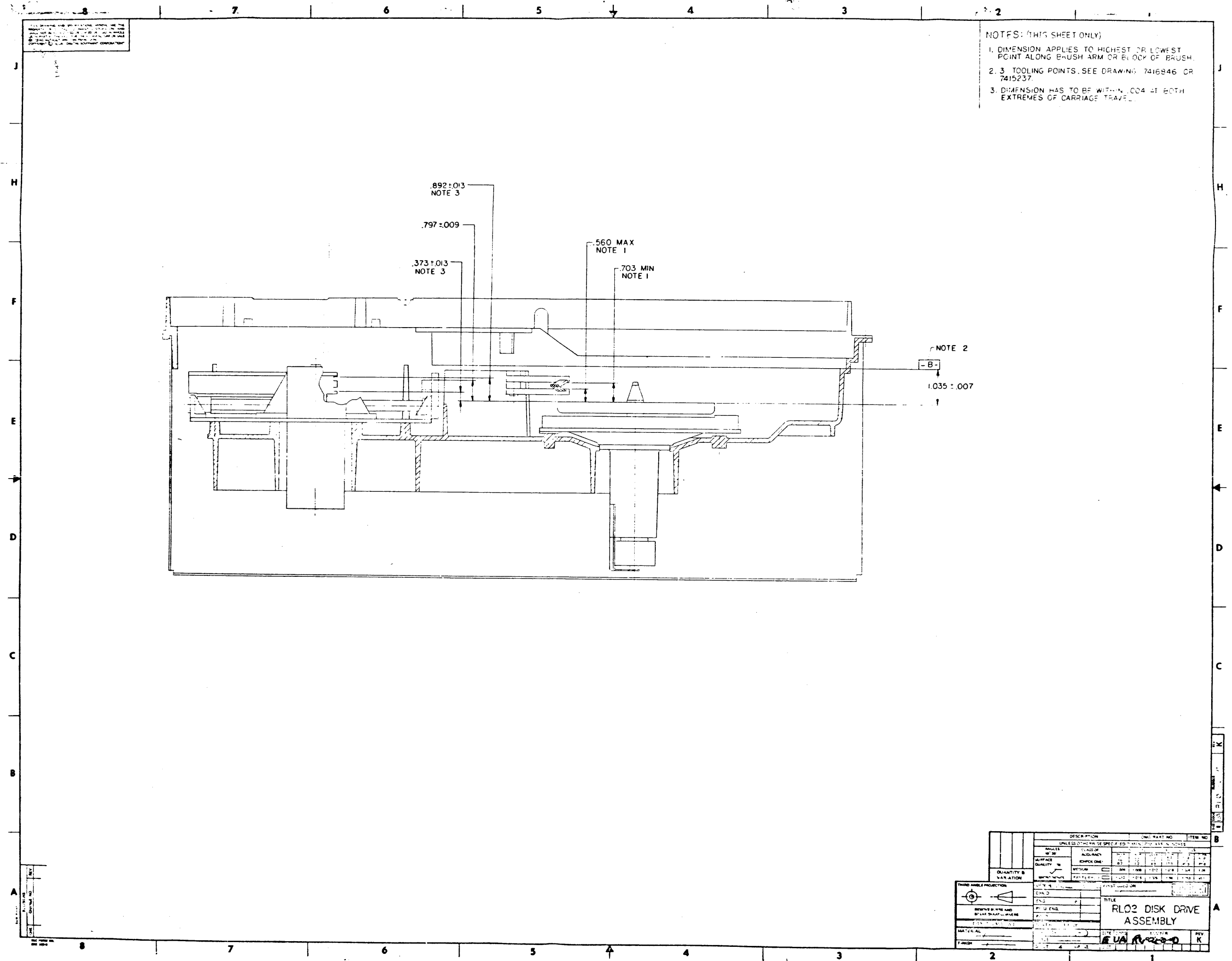
CAUTION
 OFF-SHEET PARTS LIST EXISTS.
 SEE K-PL-PL02-0 DBP (Z0485).

REV	DATE	BY	CHK	DESCRIPTION
1	10/1/70	W. T. BIRCH		INITIAL CNDP
2	10/1/70	W. T. BIRCH		INITIAL CNDP
3	10/1/70	W. T. BIRCH		INITIAL CNDP
4	10/1/70	W. T. BIRCH		INITIAL CNDP
5	10/1/70	W. T. BIRCH		INITIAL CNDP
6	10/1/70	W. T. BIRCH		INITIAL CNDP
7	10/1/70	W. T. BIRCH		INITIAL CNDP
8	10/1/70	W. T. BIRCH		INITIAL CNDP
9	10/1/70	W. T. BIRCH		INITIAL CNDP
10	10/1/70	W. T. BIRCH		INITIAL CNDP

QUANTITY & VARIATION		PART NO.		ITEM NO.	
1	1	RL02	1	1	1
TITLE: RL02 DISK DRIVE ASSEMBLY SCALE: E UA SHEET: 1 OF 4					

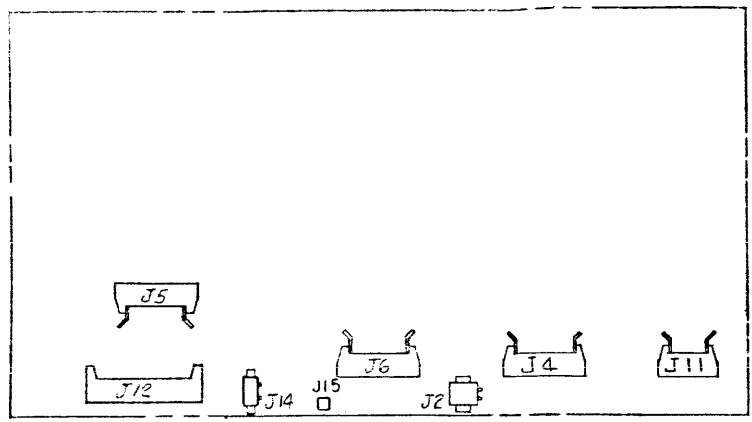


QUANTITY		DATE		REVISION	
1		10/10/74		1	
MATERIAL		EUA		K	
FINISH		2		4	
TITLE		RLO2 DISK DRIVE ASSEMBLY		RLO2-0-2	
SHEET		2		OF 4	



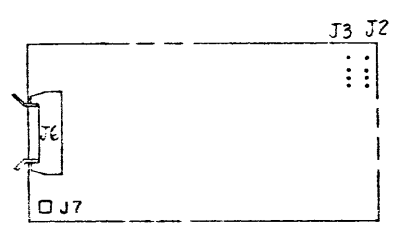
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D



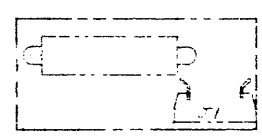
LOGIC BOARD
FIG 1

C



P/W BOARD
FIG 2

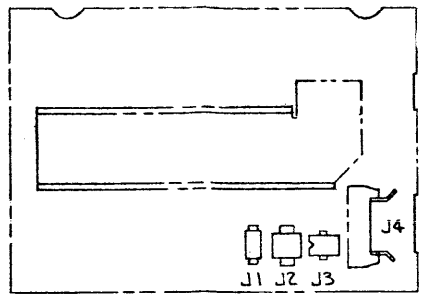
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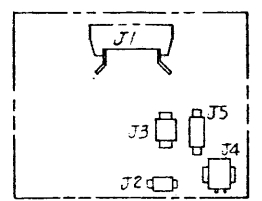
FRONT PANEL BOARD
FIG 3

A

REV	A	B	C
1	RL02-CE001 B. MILLER	RL02-CX018 K. GUENZEL	RL02-CX010 M. ZARICH
2			
3			
4			
5			
6			
7			
8			



D.C. SERVO BOARD
FIG 4



A.C. SERVO BOARD
FIG 5

THIRD ANGLE PROJECTION		DESCRIPTION		DWG. PART NO.		ITEM NO.	
REMOVE BURRS AND BREAK SHARP CORNERS		CLASS OF ACCURACY (CHECK ONE)		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		TITLE	
DO NOT SCALE DIMS		MEDIUM		OVER 0 TO 0.2		RL02	
NEXT HIGHER ASSY.		PREPARED		OVER 0.2 TO 0.4		REV. C	
MATERIAL		B-DD-RL02-0		OVER 0.4 TO 0.6		REV. C	
FINISH		SCALE		OVER 0.6 TO 0.8		REV. C	
		SHEET		OVER 0.8 TO 1.0		REV. C	
				OVER 1.0 TO 1.2		REV. C	
				OVER 1.2 TO 1.4		REV. C	
				OVER 1.4 TO 1.6		REV. C	
				OVER 1.6 TO 1.8		REV. C	
				OVER 1.8 TO 2.0		REV. C	
				OVER 2.0 TO 2.2		REV. C	
				OVER 2.2 TO 2.4		REV. C	
				OVER 2.4 TO 2.6		REV. C	
				OVER 2.6 TO 2.8		REV. C	
				OVER 2.8 TO 3.0		REV. C	
				OVER 3.0 TO 3.2		REV. C	
				OVER 3.2 TO 3.4		REV. C	
				OVER 3.4 TO 3.6		REV. C	
				OVER 3.6 TO 3.8		REV. C	
				OVER 3.8 TO 4.0		REV. C	
				OVER 4.0 TO 4.2		REV. C	
				OVER 4.2 TO 4.4		REV. C	
				OVER 4.4 TO 4.6		REV. C	
				OVER 4.6 TO 4.8		REV. C	
				OVER 4.8 TO 5.0		REV. C	
				OVER 5.0 TO 5.2		REV. C	
				OVER 5.2 TO 5.4		REV. C	
				OVER 5.4 TO 5.6		REV. C	
				OVER 5.6 TO 5.8		REV. C	
				OVER 5.8 TO 6.0		REV. C	
				OVER 6.0 TO 6.2		REV. C	
				OVER 6.2 TO 6.4		REV. C	
				OVER 6.4 TO 6.6		REV. C	
				OVER 6.6 TO 6.8		REV. C	
				OVER 6.8 TO 7.0		REV. C	
				OVER 7.0 TO 7.2		REV. C	
				OVER 7.2 TO 7.4		REV. C	
				OVER 7.4 TO 7.6		REV. C	
				OVER 7.6 TO 7.8		REV. C	
				OVER 7.8 TO 8.0		REV. C	
				OVER 8.0 TO 8.2		REV. C	
				OVER 8.2 TO 8.4		REV. C	
				OVER 8.4 TO 8.6		REV. C	
				OVER 8.6 TO 8.8		REV. C	
				OVER 8.8 TO 9.0		REV. C	
				OVER 9.0 TO 9.2		REV. C	
				OVER 9.2 TO 9.4		REV. C	
				OVER 9.4 TO 9.6		REV. C	
				OVER 9.6 TO 9.8		REV. C	
				OVER 9.8 TO 10.0		REV. C	

C

LINE ITEM		DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION 00
1	1	D-AD-7012111-0-0	7012111-00	BEZEL ASSY	1
2	2	D-AD-7012112-0-0	7012112-00	BRUSH DRIVE ASSY	1
3	3	E-AD-7012114-0-0	7012114-00	DISK MOTOR ASSY	1
4	4	E-AD-7012115-0-0	7012115-00	FRONT COVER ASSY	1
5	5	E-AD-7012116-0-0	7012116-00	MAIN CHASSIS ASSY	1
6	6	D-AD-7012117-0-0	7012117-00	POSITIONER ASSY	1
7	7	D-AD-7015124-0-0	7015124-00	RL02 R/W BOX ASSY	1
8	8	D-AD-7015125-0-0	7015125-00	RL02 REAR COVER ASSY	1
9	9	D-AD-7015116-0-0	7015116-00	SPINDLE ASSY	1
10	10		9006038-01	SCREW,PAN,PHIL 8-32X 7/16 SS	4
11	11	D-IA-7015637-0-0	7015637-00	RL02 DATA HEAD "A" UP	1
12	12	B-AD-7012128-0-0	7012128-00	ACCESS COVER ASSEMBLY	1
13	13	D-AD-7012130-0-0	7012130-00	POWER PANEL ASSEMBLY	1
14	14	B-IA-7012139-0-0	7012139-0F	INTERCONNECT CABLE	2
15	15	B-IA-7014262-0-0	7014262-00	INTERCONNECT CABLE ASSEMBLY	1
16	16	C-IA-7012140-0-0	7012140-00	POWER HARNESS DC	1
17	17	B-IA-7012107-0-0	7012107-3D	INTERCONNECT CABLE	1
18	18	D-MD-7415094-0-0	7415094-00	REAR COVER	1
19	19	C-MD-7415101-0-0	7415101-00	SPRING, PLENUM COVER	2
20	20	C-MD-7415297-0-0	7415297-00	FILTER,PAD	1
21	21	C-MD-7415303-0-0	7415303-00	COVER AC SERVO	1
22	22	C-MD-7416335-0-0	7416335-00	CABLE RETAINER	1
23	23	D-MD-7417450-0-0	7417450-00	HATCH	1
24	24	C-MD-7417454-0-0	7417454-00	BRACKET PLENUM	2
25	25	C-MD-7417455-0-0	7417455-00	LATCH PLENUM	2
26	26	D-UA-5411848-0-0	5411848-00	ETCH BRD 54-11848	1
27	27	D-UA-5413534-0-0	5413534-00	DC SERVO + POWER SUPPLY (RL02)	1
28	28		9006024-01	SCREW,PAN,PHIL 6-32X 1/2 SS	2
29	29	D-AD-7012137-0-0	7012137-00	TRANSDUCER ASSY	1
30	30		1213097-00	FILTER,AIR,HEPA,33CFM	1

30

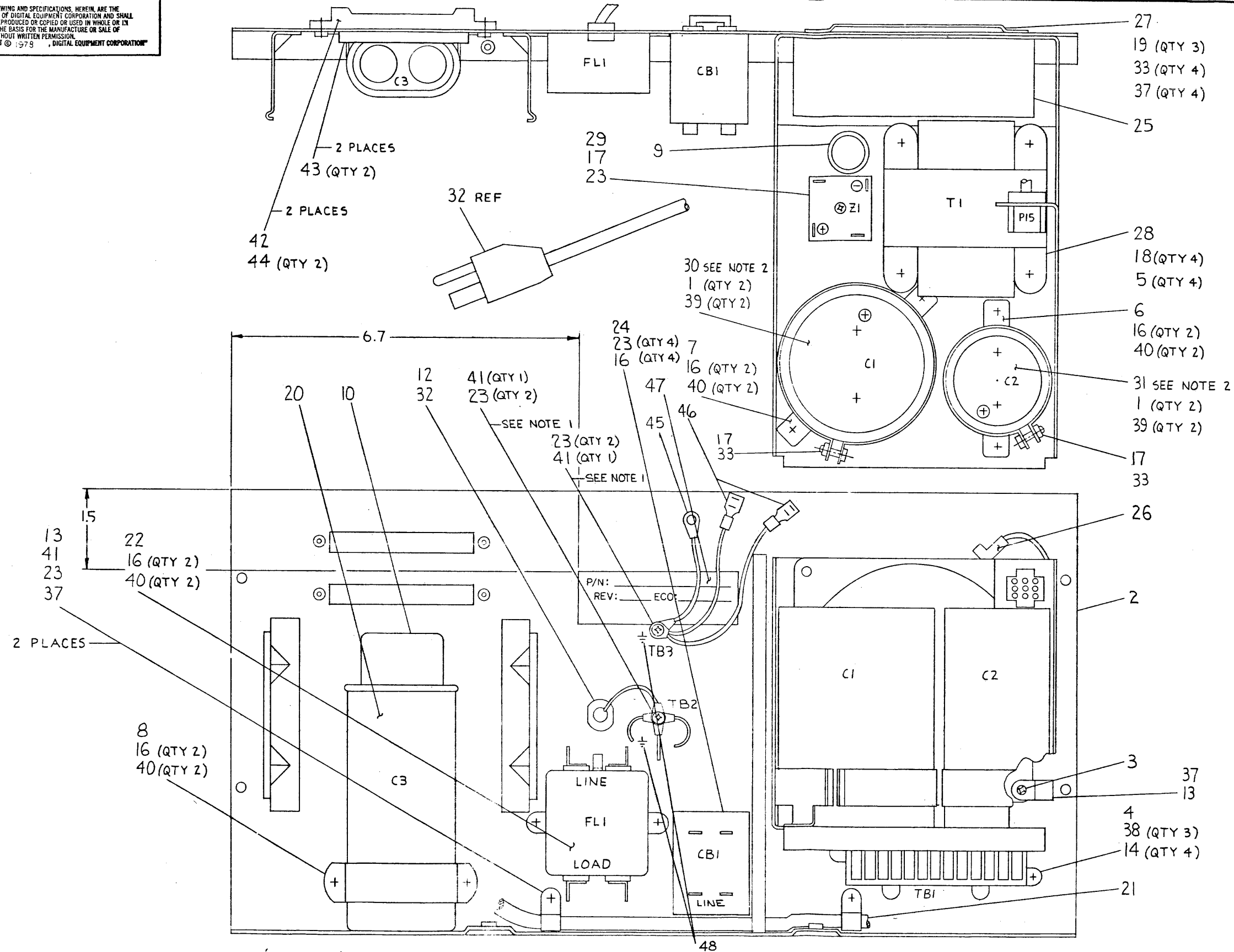
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REVISION HISTORY			BASIC PART NO: ORLO2		DRN:	W.GRIMES	DATE: 15 FEB 78		D I G I T A L			
ENG!	ECO NUMBER	REV	SECTION A OF A		CHK'D:	W.MAJOR	DATE: 15 FEB 78		TITLE		PARTS LIST	
	RL02-CZ002	A	SECTION. VARIATION INDEX						RL02 DISK DRIVE ASSEMBLY			
BM	RL02-CX003	B	[A] 00									
BM	RL02-CX004	C										
KG	RL02-CX006A	D	[B]		DES.ENG.:	B.MILLER	DATE: 15-MAR-79					
KG	RL02-CX008	E							DOCUMENT NUMBER			
KG	RL02-CX009	F	[C]		RESP.ENG.:	B.MILLER	DATE: 15-MAR-79		SIZE	CODE	NUMBER	REV
MZ	RL02-CX010	H	[D]									
			[E]		MFG.ENG.:	D.LICK	DATE: 15 MAR 79		K	PL	RL02-0-DBP	H
			[F]		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #	
					E-UA-RL02-0-0		# B-DD-RL02-0		Z0485H.PLS		18	
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LINE ITEM		DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION 00
31	31		1213369-00	BELT,WOVEN,ENDLESS.375WX27.148LG	1
32	32		1213686-01	MOUNTING RAIL FOR 12-13686-00	1
33	33		1214330-00	SPRING,EXTENSION,2.5LGX.360D	1
34	34		9006022-01	SCREW,PAN,PHIL 5-32X 3/8 SS	2
35	35		9006035-01	SCREW,PAN,PHIL 8-32X 1/4 SS	6
36	36		9006037-01	SCREW,PAN,PHIL 8-32X 3/8 SS	13
37	37		9006039-01	SCREW,PAN,PHIL 8-32X 1/2 SS	12
38	38		9006633-00	WASHER,LOCK,INT,.2800D X .146ID	4
39	39		9006634-00	WASHER,LOCK,INT,.2300D X .172ID	15
40	40		9006636-00	WASHER,LOCK,INT,.3800D X .200ID	3
41	41		9007079-00	CLAMP, CABLE, SCREW MNT, 1/8"	4
42	42		9008955-01	SCREW,PAN,PHIL 10-32X 15/16SS	3
43	43	D-IA-7015637-0-0	7015637-01	RL02 DATA HEAD "A" DN	1
44	44		9009884-00	WASHER, FLAT, TEFLON .62 OD X.31	4
45	45		9009885-00	WASHER, SPRING	2
46	46	B-MD-7420084-0-0	7420084-00	SHIM, LATCH	A/R
47	47	C-MD-7416865-0-0	7416865-00	BRACKET LATCH	1
48	48	D-MD-7420826-0-0	7420826-00	COVER, DC SERVO BOARD	1
49	49		9006040-01	SCREW,PAN,PHIL 8-32X 5/8 SS	2
50	50		9006653-00	WASHER, FLAT, .375 O.D. X .156 I	3
51	51		1214359-00	WASHER,FLAT,S/S .169ID X .620D X	2
52	52		9006660-00	WASHER, FLAT, .375 O.D. X .187 I	11
53	53		9009759-00	SCREW,FLAT,PHIL, 8-32X 3/8	2
54	54		9006454-00	RIVET, BLIND, .156 DIA X .254 LG	10
55	55	B-MD-7420084-0-0	7420084-01	SHIM LATCH	A/R
56	56		3700406-00	INSTR PKG DISK RL01 DRIVE	1
57	57		9007649-00	WASHER, LOCK, EXTERNAL TOOTH #6	5
58	58		9006021-01	SCREW,PAN,PHIL 6-32X 5/16 SS	4
59	59		9008072-00	WASHER, LOCK, EXTERNAL TOOTH #8	21
60	60		9009974-00	WASHER, FLAT, METAL,.62 O.D. X	2
61	61		3613209-03	LABEL,ELECTRICAL DATA VARIATIO	1
62	62	D-MD-7420068-0-0	7420068-00	SHIELD POSITIONER	1
63	63		3614783-00	LABEL,ADH BACK "DANGER HIGH VOLT	1
64	64	A-DC-7416197-0-0	7416197-02	DECAL, LA36	1
65	65		3613211-01	DECAL,CLEAR PREPRINTED CSA 1-1/4	1
66	66		3615687-00	LABEL,ADHESIVE BACK FOR RL02	1
67	67		3615393-05	LABEL,RUB-ON,RL02	1
68	68		3616643-00	LABEL,CAUTION	1
69	69		9006418-01	SCREW,TAPPING,TYPE TT,PAN ,PHIL,	2
70	70	B-MD-7422834-0-0	7422834-00	INSULATOR,HEAD CABLE	1
71	71		9009023-00	WASHER,LOCK,INT,.3300D X .172ID	2
72	72	C-IA-7017608-0-0	7017608-00	*** THIS ITEM IS NOT USED ***	-
73	73	B-IA-7017609-0-0	7017609-00	*** THIS ITEM IS NOT USED ***	-

D I G I T A L		TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
		RL02 DISK DRIVE ASSEMBLY		K	PL	RL02-0-DBP	H

1. INT TOOTH LOCK WASHERS (ITEM 23) ARE USED OVER AND UNDER GROUND TERMINALS.
2. ORIENT TERMINALS AS SHOWN.



CAUTION:OFF SHEET PARTS LIST EXISTS.
SEE K-PL-7012130-0-DBP (ZØ849)

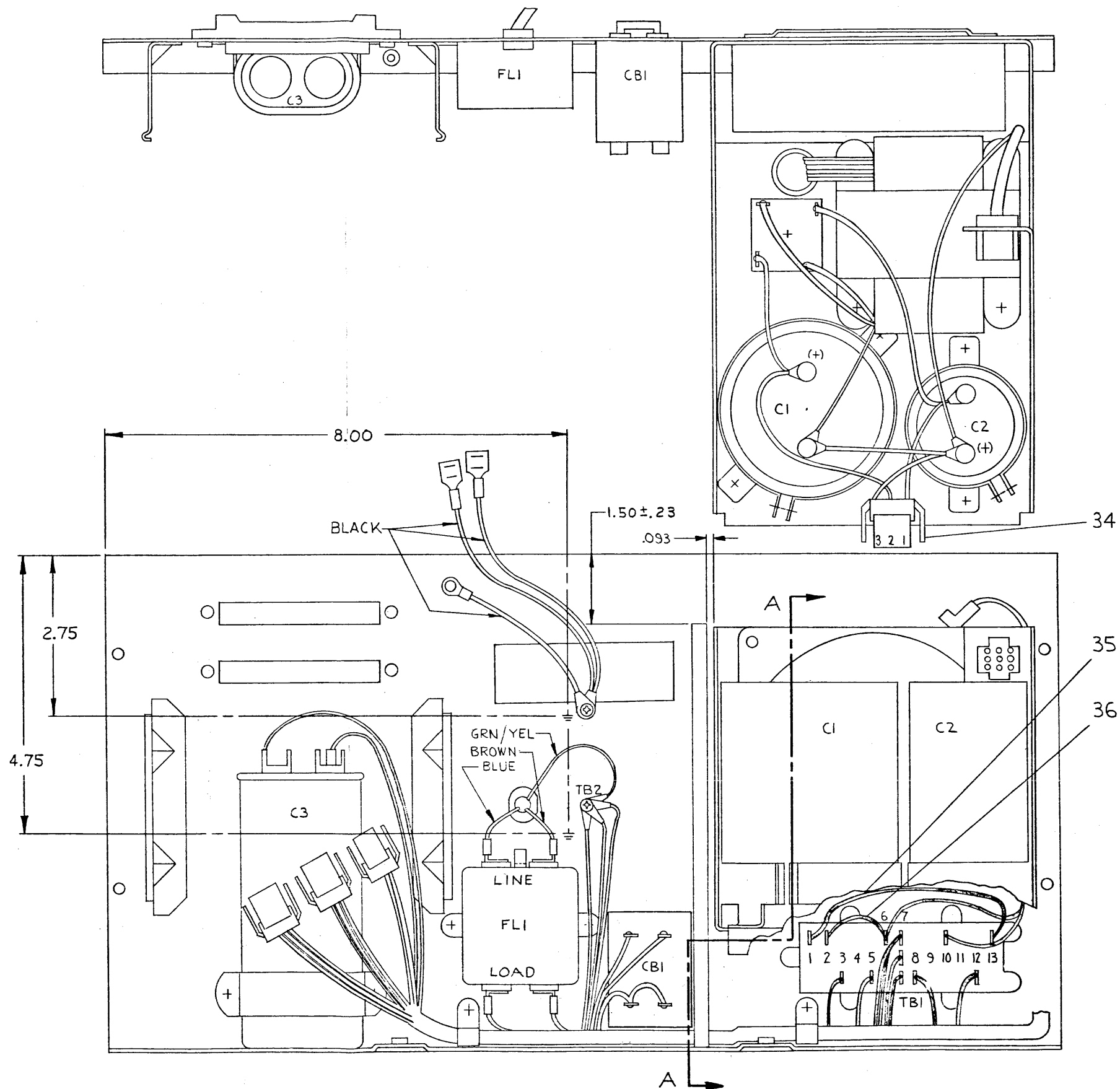
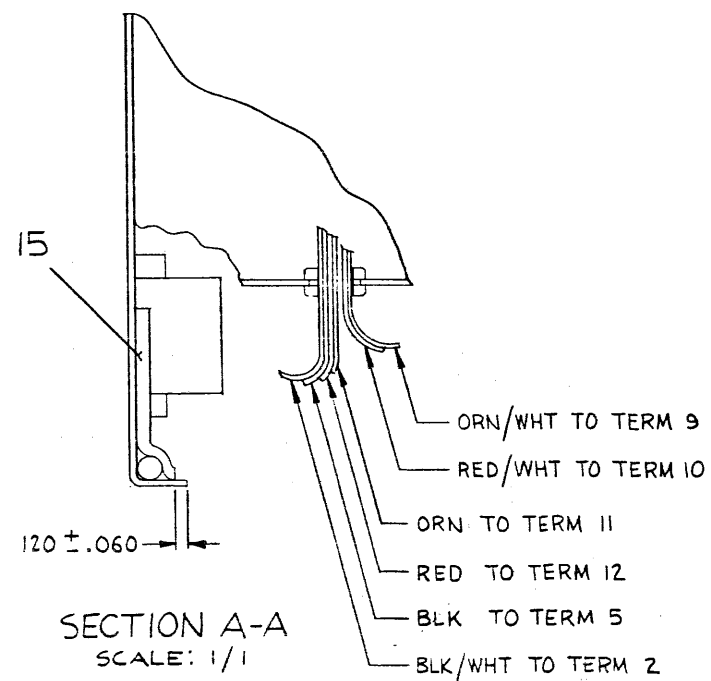
CHK	CHANGE NO.	REVISION.	REV.
	REL. 130-0001	REV. A	A
	REL. 130-0002	REV. B	B
	REL. 130-0003	REV. C	C
	REL. 130-0004	REV. D	D
	REL. 130-0005	REV. E	E
	REL. 130-0006	REV. F	F
	REL. 130-0007	REV. G	G
	REL. 130-0008	REV. H	H
	REL. 130-0009	REV. I	I
	REL. 130-0010	REV. J	J
	REL. 130-0011	REV. K	K
	REL. 130-0012	REV. L	L
	REL. 130-0013	REV. M	M
	REL. 130-0014	REV. N	N
	REL. 130-0015	REV. P	P
	REL. 130-0016	REV. Q	Q
	REL. 130-0017	REV. R	R
	REL. 130-0018	REV. S	S
	REL. 130-0019	REV. T	T
	REL. 130-0020	REV. U	U
	REL. 130-0021	REV. V	V

QUANTITY & VARIATION		DESCRIPTION				DWG./PART NO.				ITEM NO.	
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES									
		ANGLES ±0° 30'	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE INCHES							
				OVER 0 TO 0.2 ±0.04	OVER 0.2 TO 1.2 ±0.08	OVER 1.2 TO 4.0 ±0.12	OVER 4.0 TO 12.0 ±0.16	OVER 12.0 TO 40.0 ±0.24	OVER 40.0 TO 80.0 ±0.3		
SURFACE QUALITY IN ✓	MEDIUM ☐	±0.04	±0.08	±0.12	±0.16	±0.24	±0.3	±0.4			
	PREFERRED ☐	±0.012	±0.016	±0.025	±0.04	±0.063	±0.1				
THIRD ANGLE PROJECTION		DRN. <u>R. WELCH</u>		24 AUG 77		FIRST USED ON		RLQI		digital	
		CHK'D <u>G. SCHNEIDER</u>		24 AUG 77		TITLE		POWER PANEL ASSY			
REMOVE BURRS AND BREAK SHARP CORNERS		ENG. <u>G. SCHNEIDER</u>		24 AUG 77							
		PROJ. ENG. <u>R. ARVOLD</u>		24 AUG 77							
		PROD. <u>B. RYLAND</u>		24 AUG 77							
DO NOT SCALE DWG		NEXT HIGHER ASSY.									
MATERIAL SEE PARTS LIST		E-UP-RLQI-P-0				SIZE CODE		NUMBER		REV.	
FINISH <u> </u>		SCALE: <u>1/1</u>				D AD		7012130-0-0		1 V	
		SHEET OF 3				DIST.					

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NOTES:

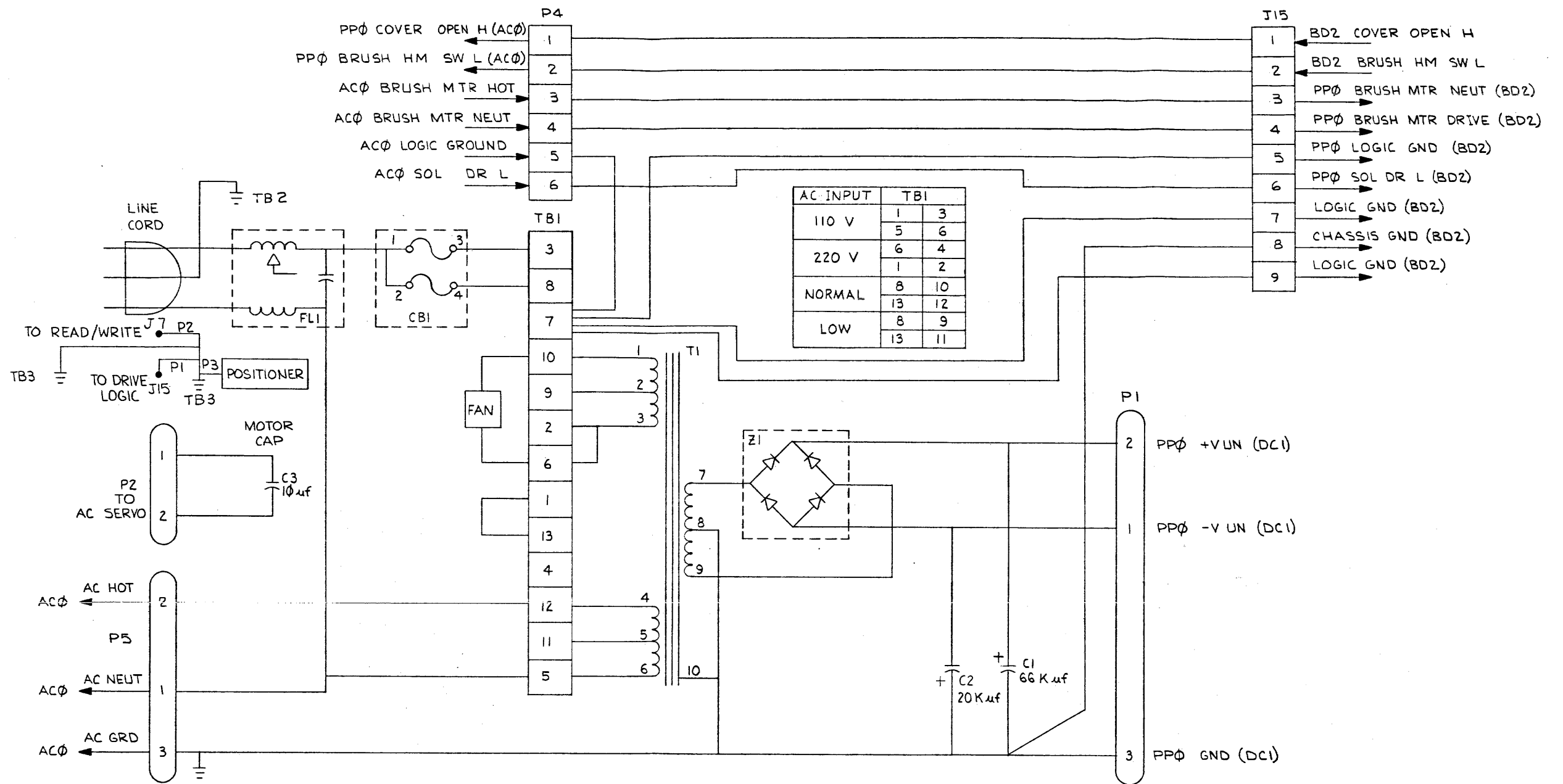
- INPUT VOLTAGE 50 OR 60 HZ
90-110, 105-128 VAC
180-220, 210-256 VAC
- OUTPUT VOLTAGE ± 11.5 VDC MIN AT MIN POINT OF THE RIPPLE. 18 VDC MAX AT HIGH LINE. (MAX OF 25 VDC AT HIGH LINE NO LOAD).
- OUTPUT CURRENT: POSITIVE OUTPUT
2.5 AMP CONTINUOUS
3.5 AMP PULSE "25 MS"
NEGATIVE OUTPUT
.25 AMP CONTINUOUS
3.5 AMP PULSE "25 MS"
PULSE CURRENT ON ALTERNATE OUTPUT AT A 65 MS OUT CYCLE.
- OUTPUT RIPPLE AT 110 VOLTS
A. NO LOAD 100 MV P/P
B. +2.5 A 600 MV P/P
-.25 A 300 MV P/P
C. +2.5 A 600 MV P/P
-3.75 A 1.5 V DURING PULSE
RIPPLE AT 90 V RMS
+2.5 A 500 MV
-3.75 A 2 V
+6 A 900 MV
-.25 A 400 MV
- HIGH POT TEST PER UL 478
CONNECT BOTH AC LEADS TO THE POSITIVE TERMINAL OF THE SUPPLY AND GRN WIRE GROUND TO THE NEGATIVE TERMINAL OF THE SUPPLY. CLOSE CIRCUIT BREAKER AND INCREASE VOLTAGE TO 1750 VDC, ANY CURRENT INDICATES FAILURE.



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE CODE	NUMBER	REV.
POWER PANEL ASSY		D	AD7012130-0-0	V
SCALE: 1/1	SHEET 2 OF 3	DIST.		

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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE CODE	NUMBER	REV.
POWER PANEL ASSY (PPO)	D AD	7012130-0-0	V
SCALE: 1/1	SHEET 3 OF 3	DIST.	

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION 00
1	1		9006070-01	SCREW,PAN,PHIL 10-32X 5/16 SS	4
2	2	D-IA-7416326-0-0	7416326-00	CHASSIS	1
3	3		9006028-01	SCREW,PAN,PHIL 6-32X1 SS	1
4	4	C-AD-7012127-0-0	7012127-00	CHASSIS ASSY	1
5	5		9008072-00	WASHER, LOCK, EXTERNAL TOOTH #8	4
6	6		1210430-00	BRACKET,CAPACITOR,2"	1
7	7		1210431-00	BRACKET,CAPACITOR,3-1/16"	1
8	8		1213156-01	BRACKET,CAPACITOR,WRAP-AROUND	1
9	9		9007016-00	GROMMET, RUBBER	1
10	10		1213683-00	BOOT,CAPACITOR,RUBBER	1
11	11		9007113-00	*** THIS ITEM IS NOT USED ***	-
12	12		9009768-01	BUSHING,STRAIN RELIEF .280-.393W	1
13	13		9007082-00	CLAMP,CABLE,SCREW MTD. 5/16"	3
14	14		9009800-01	SCREW,PAN,PHILLIPS, 6X7/8 SELF-	4
15	15		9009059-01	TAPE,FOAM, 1/2W X 1/4THK W/ ADH	A/R
16	16		9006020-01	SCREW,PAN,PHIL 6-32X 1/4 SS	12
17	17		9006023-01	SCREW,PAN,PHIL 6-32X 7/16 SS	3
18	18		9006036-01	SCREW,PAN,PHIL 8-32X 5/16 SS	4
19	19		9006027-01	SCREW,PAN,PHIL 6-32X 7/8 SS	3
20	20		1013102-00	10 MFD 370VAC 6% PAPER/OIL	1
21	21	D-IA-7012108-0-0	7012108-00	POWER PANEL HARNESS	1
22	22		1215360-00	FILTER,LINE,115/250V,47-400HZ, F	1
23	23		9006633-00	WASHER,LOCK,INT,.2800D X .146ID	11
24	24		1216827-00	CKT BKR 2.5 A 250V 2P MAGNETIC	1
25	25		1209403-01	FAN,115CFM,SLEEVE BRNG	1
26	26	B-IA-7012110-0-0	7012110-00	HARNESS AC-TB	1
27	27		1210263-00	GUARD,FINGER 4.125 X 4.125 MTG H	1
28	28		1613897-00	XFMR P=AB S=11.506A	1
29	29		1110051-00	DM 16 ASSY@200V & 25A #990-3	1
30	30		1013530-00	66,000 MFD 30V +75-10% AL EL	1

REVISION HISTORY			BASIC PART NO: ORLO1		DRN:	D. MELCHOIR	DATE: 12-AUG-76	D I G I T A L			
ENG	ECO NUMBER	REV	SECTION A OF A					TITLE		PARTS LIST	
KG	7012130-CX010	P	SECTION. VARIATION INDEX		CHK'D:	G. SCHNEIDER	DATE: 24-AUG-77	POWER PANEL ASSEMBLY			
KG	RL02-CX008	R	[A] 00								
KG	7012130-CX011	S									
MZ	RL02-CX010	T	[B]		DES.ENG.:	G. SCHNEIDER	DATE: 24-AUG-77				
KG	7012130-CX012	U									
IW	7012130-CX013	V	[C]				DOCUMENT NUMBER				
	<i>from Volume 1</i>				RESP.ENG.:	P. ARNOLD	DATE: 30-AUG-77	SIZE	CODE	NUMBER	REV
	<i>12-5-80</i>		[D]								
			[E]		MFG.ENG.:	B. RYLANDER	DATE: 30-AUG-77	K	PL	7012130-0-DBP	V
			[F]		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #
					D-AD-7012130-0-0		# B-DD-RL02-0		Z0849V.PLS		17
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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION 00
31	31		1013531-00	20,000 MFD 40V +75-10% AL EL	1
32	32	B-IA-7012109-0-0	7012109-00	POWER HARNESS	1
33	33		9006560-00	NUT,KEP , 6-32 X5/16AF	6
34	34	C-IA-7012142-0-0	7012142-00	CABLE	1
35	35	B-IA-7012125-0-0	7012125-0E	INTERCONNECT CABLE	1
36	36	B-IA-7012125-0-0	7012125-0B	TB INTERCONNECTOR HARNESS	1
37	37		9006653-00	WASHER, FLAT, .375 O.D. X .156 I	7
38	38		9009800-06	SCREW,PAN,PHILLIPS, 6X.38	3
39	39		9006635-00	WASHER,LOCK,INT,.3100D X .200ID	4
40	40		9007649-00	WASHER, LOCK, EXTERNAL TOOTH #6	8
41	41		9006021-01	SCREW,PAN,PHIL 6-32X 5/16 SS	4
42	42		1211591-35	CONN,ZIF 40PIN RCPT ASSY	2
43	43		1211591-38	CONN,ZIF 40PIN RCPT,SWAP IN GU	4
44	44		9008301-01	SCREW,PAN,PHIL 4-40X 1/4 SS	4
45	45	B-IA-7017609-0-0	7017609-00	GROUND HARNESS	1
46	46	C-IA-7017608-0-0	7017608-00	GROUND HARNESS	1
47	47		9009255-00	LABEL, POWER SUPPLY, 2-15/16 " L	1
48	48		3612680-00	DECAL, GROUND SIGN PER 3E6 *	2

D I G I T A L			TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
			POWER PANEL ASSEMBLY		K	PL	7012130-0-DBP	V

		DESCRIPTION		DRAWING NO.		PART NO.		ITEM NO.	
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114)							
		INCHES TOLERANCES		ANGLES ± 0° 30'	APPLICABLE DIMENSION RANGE (CHECK ONE)	DIMENSION RANGE IN INCHES			
.X = ± .1 .XX = ± .02 .XXX = ± .005		SURFACE QUALITY ✓ MICROINCHES	OVER 0 TO 0.2	OVER 0.2 TO 1.2		OVER 1.2 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 60.0
QUANTITY & VARIATION				☐	± .02	± .03	± .05	± .10	
			☐	± .004	± .008	± .012	± .016	± .024	± .04
			☐						
THIRD ANGLE PROJECTION		DRN <i>K & and</i>		DATE 1 OCT 80		TITLE			
DO NOT SCALE DRAWING		CHG <i>RE Nick</i>		DATE 22 OCT 80		digital SWITCH COVER ASSY			
REMOVE BURRS AND BREAK SHARP CORNERS		DESIGN <i>JOHN HANCOCK</i>		DATE 2 OCT 80					
MATERIAL		RES/ENG <i>JOHN HANCOCK</i>		DATE 2 OCT 80					
SEE PARTS LIST		MATERIAL <i>2024</i>		DATE		DOCUMENT NUMBER			
FINISH <i>1-1</i>		NEXT HIGHER DOC		E-UA-RL01-0-0		D AD 7016991-0-0		REV. *	
						SCALE 1/1		SHEET OF	

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION
					00
1	1		9007031-00	TIE,CABLE BUNDL.DIA 0- 3/4"=101	3
2	2		9009800-06	SCREW,PAN,PHILLIPS, 8X.38	3
3	3		9007081-00	CLAMP,CABLE,SCREW MTD. 1/4"	1
4	4	C-AD-7012132-0-0	7012132-00	CARTRIDGE SENSE SWITCH ASSY.	1
5	5	C-PS-1213204-0-0	1213204-00	SOLENOID,COVER LOCK	1
6	6	B-MD-7416858-0-0	7416858-00	CART SENSE PLUNGER	1
7	7		9006653-00	WASHER, FLAT, .375 O.D. X .156 I	1
8	8	E-IA-7415224-0-0	7415224-00	COVER BRUSH DRIVE	1
9	9	C-IA-7017333-0-0	7017333-00	COVER, SWITCH HARNESS	1

REVISION HISTORY		BASIC PART NO: 7016991		DRN: K. DAVIS		DATE: 1 OCT 80		D I G I T A L	
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D:	<i>D Miller</i>	DATE:	20 OCT 80	TITLE PARTS LIST	
KG	RL01-CX048	*	SECTION. VARIATION INDEX	IAJ 00	<i>Ivan Walenta</i>	DATE:	22 OCT 80	SWITCH COVER ASSY	
	W. MAJOR R22		IBJ	DES.ENG.:	K. GUENZEL	DATE:	22 OCT 80		
	K. GUENZEL		ICJ	RESP.ENG.:	<i>Ivan Walenta</i>	DATE:	22 OCT 80	DOCUMENT NUMBER	
			IDJ	MFG.ENG.:	<i>J. Bland</i>	DATE:	22 OCT 80	SIZE	CODE
			IEJ	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:	EDIT #
			IFJ	ID-AD-7016991-0-0		#B-DD-RL01-0		Z0984*.PLS	6
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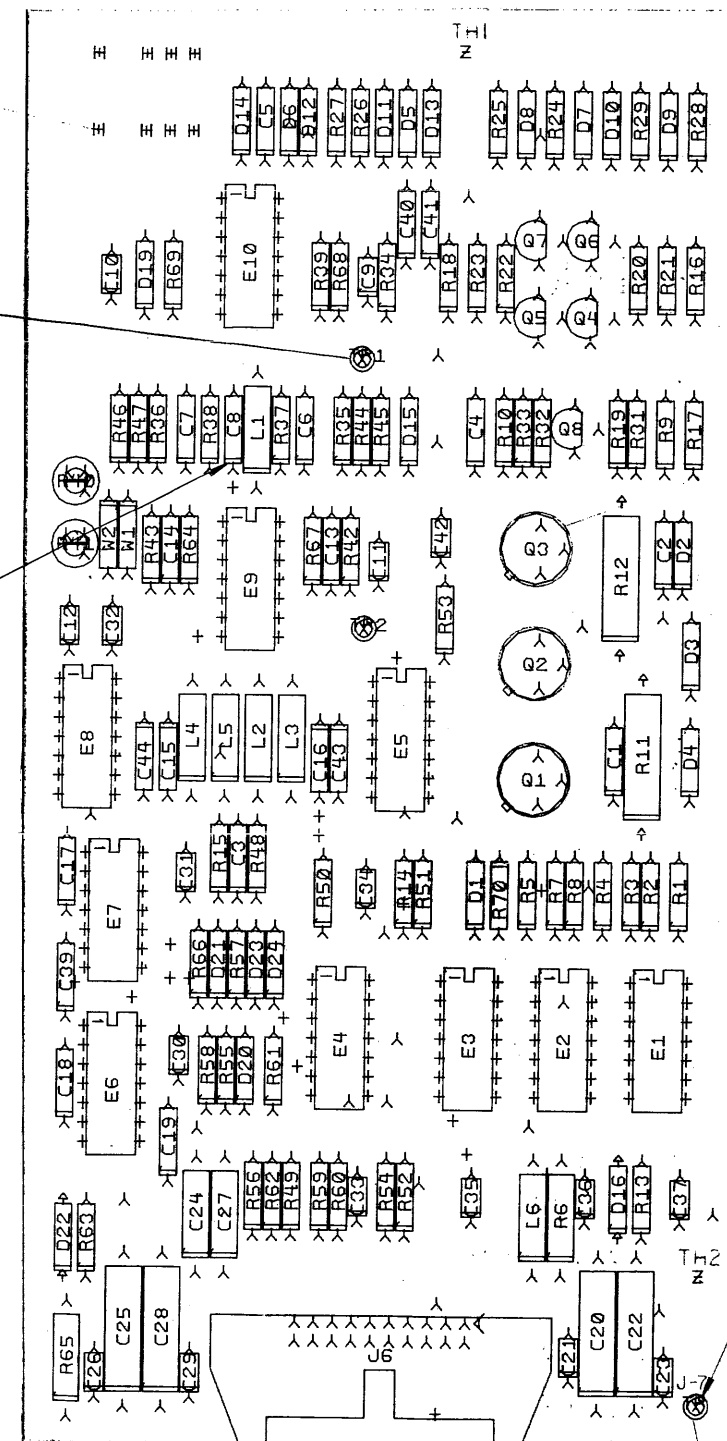
COMPONENT SIDE VIEW

60
8PLC'S
MNT ON
SIDE 2

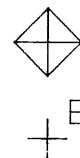
65
2 PLC'S

I-1

I-3



43, 44
45
TYP
3 PLC'S



NOTES:

CHK	CHANGE	NO	REV
B	5413536-		B
	CX001		
	M. ZARICH		
	80		

ETCH R1 V. B
P.C. D SIGN DATA BASE REV. BL

SIGNATURES	DATE	digital
DRN. <i>L. Rahn</i>	8/3/78	
CHK'D. <i>L. Rahn</i>	8/3/78	
ENG. <i>B. Resnick, JR</i>	8/3/78	
PROJ. ENG. <i>W. H. ...</i>	8/3/78	
PROD. <i>...</i>	8/3/78	
SCALE 2/1		
SHT. 1 OF 2		
NEXT HIGHER ASSY: B-DD-5413536-0		

TITLE RL02	READ/WRITE BOARD
SIZE CODE	NUMBER
D UA 5413536-0-0	REV B

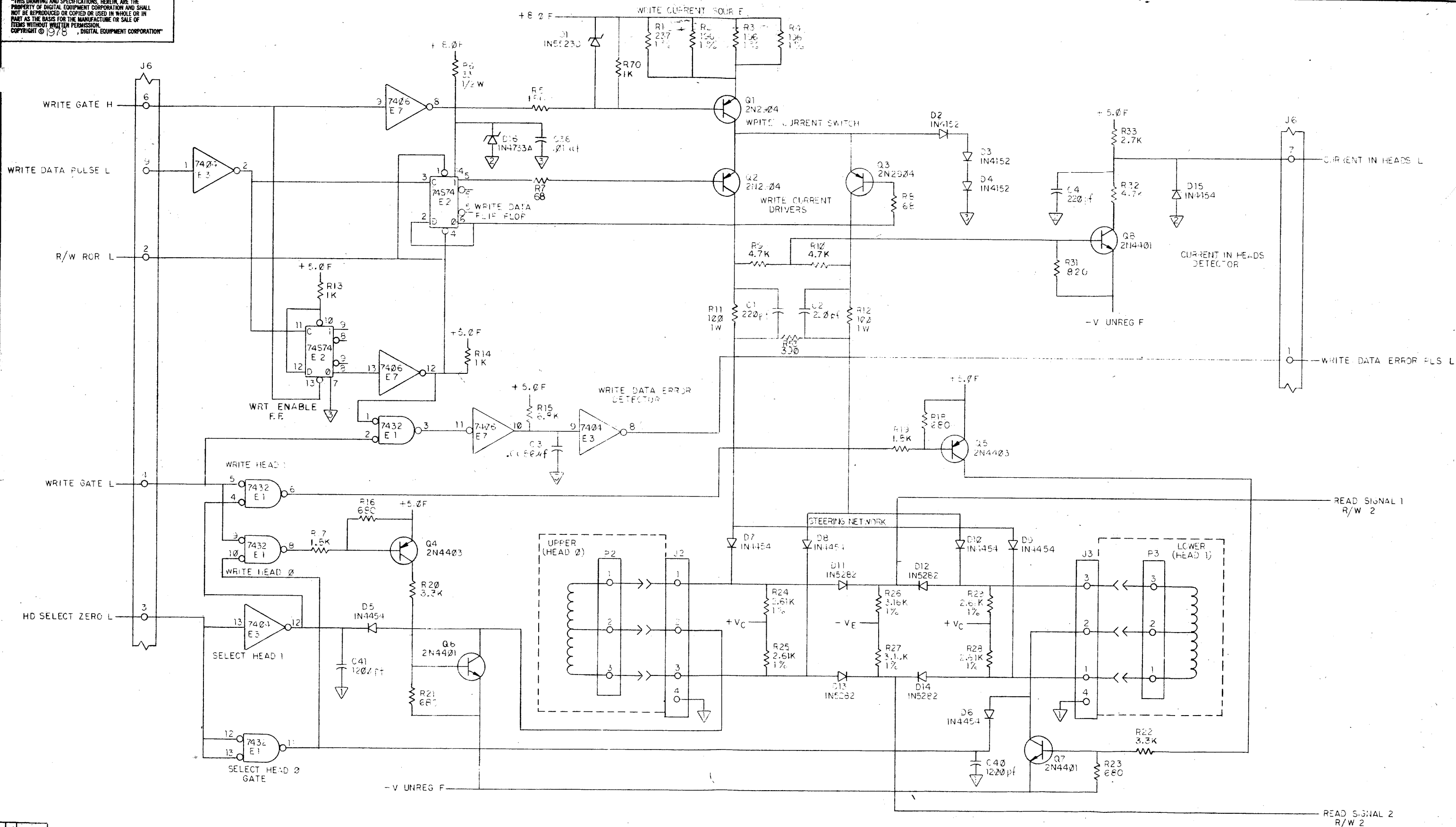
LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION *00	REFERENCE DESIGNATOR
1	1	D-MD-5013535-0-0	5013535-00	ETCHED CIRCUIT BD	1
2	2		1001610-00	.01 MFD 50V -20+80 Z5U AXIAL	17
3	3		1005304-00	4.8MFD 35V 10% S.TANT	4
4	4		1013466-14	82.0 MMF 50V 5% CER	2
5	5		1013466-06	100.0 MMF 50V 5% CER.	1
6	6		1013466-05	56.0 MMF 50V 5% CER.	1
7	7		1013466-07	220.0 MMF 50V 5% CER.	5
8	8		1013466-09	1000.0 MMF 50V 10% CER.	1
9	9		1013466-11	.22 MFD 50V +80/-20% CER.	2
10	10		1013466-15	1200.0 MMF 50V 5% CER.	3
11	11		1109943-00	1N 4733A VZ= 5.1 5% 1W Y	2
12	12		1113953-00	1N 5523D VZ= 5.1 1% 1W Y	1
13	13		1100122-00	1N 748A VZ= 3.9 5% 1W Y	1
14	14		1111577-00	1N 4454 TR= 4NS PIV= 50 S	11
15	15		1300250-00	150.0 .25 W 5.0 % CC	1
16	16		1300229-00	100.0 .25 W 5.0 % CC	5
17	17		1300232-00	100.0 1.0 W 5.0 % CC	2
18	18		1300247-00	120.0 .25 W 5.0 % CC	1
19	19		1300365-00	1.0 K .25 W 5.0 % CC	8
20	20		1300444-00	3.90 K .25 W 5.0 % CC	1
21	21		1300447-00	4.70 K .25 W 5.0 % CC	3
22	22		1301775-00	820.0 .25 W 5.0 % CC	1
23	23		1301317-00	10.0 .25 W 5.0 % CC	1
24	24		1302612-00	1.78 K 1/4W 1% RN55D-F 100PPM	2
25	25		1300195-00	33.0 .50 W 5.0 % CC	2
26	26		1304725-00	300 1/4W 1% RN55D-F 100PPM	1
27	27		1312930-00	5.10 K .25 W 5.0 % CC	2
28	28		1301424-00	680.0 .25 W 5.0 % CC	4
29	29		1302391-00	20.0 K .25 W 5.0 % CC	1
30	30		1300426-00	2.70 K .25 W 5.0 % CC	1

REVISION HISTORY			BASIC PART NO: 13536			DATE: 14-AUG-78			D I G I T A L		
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D	JERRY BEST	DATE: 14-AUG-78			TITLE	PARTS LIST	
	INIT	A	SECTION VARIATION INDEX	CHK'D	L. ROOHR	DATE: 14-AUG-78			READ/WRITE BOARD		
IMZ	5413536-CX001	B	CAJ 00								
	M. ZARICH W.C.M.		CB								
	17 JAN 80		CC								
			CD								
			CE								
			CF								
			CH								
			CJ								
			CK								
			CL								
			CM								
			CN								
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AUTOMATED BY PRTLST.2E(3)			PARTS LIST		QTY PER VARIATION	REFERENCE DESIGNATOR
LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	*00		
31	31	1302956-00	196 1/4W 1% RN55D-F 100PPM	3		R2,R3,R4
32	32	1300439-00	3.30 K .25 W 5.0 % CC	2		R20,R22
33	33	1305143-00	825 1/4W 1% RN55D-F 100PPM	2		R44,R45
34	34	1303303-00	2.61 K 1/4W 1% RN55D-F 100PPM	4		R24,R25,R28,R29
35	35	1302645-00	1.1 K 1/4W 1% RN55D-F 100PPM	1		R61
36	36	1301477-00	82.0 .25 W 5.0 % CC	1		R68
37	37	1301322-00	180.0 .25 W 5.0 % CC	2		R37,R38
38	38	1313469-00	240.0 .25 W 5.0 % CC	1		R34
39	39	1303045-00	3.16 K 1/4W 1% RN55D-F 100PPM	2		R26,R27
40	40	1501913-00	2N 2904A PNP 600MW SI 60 40 Y	3		Q1-Q3
41	41	1513489-00	2N 4401 NPN 350MW SI 40 20	3		Q6-Q8
42	42	1513490-00	2N 4403 PNP 350MW SI-40 30	2		Q4,Q5
43	43	1210001-00	HEAT SINK BLACK	3		
44	44	9007201-00	TRANSIPADS \$10253	3		
45	45	9008268-00	COMPOUND, THERMAL JOINT	\$ A/R		
46	46	1611257-01	CHOKE(CERAMIC BEAD)AXIAL LEAD,ON	1		L6
47	47	1613898-01	33.0 OH INDUCTOR	4		L2-L5
48	48	1613898-02	39.0 OH INDUCTOR	1		L1
49	49	1910268-00	DEC 75107B RECEIVER,LINE,DUAL,	1		E8
50	50	1909686-00	7404 INVERTER GATE-HEX 1I	1		E3
51	51	1910544-00	74S74 FF-D DUAL,EDGE TRIGG	1		E2
52	52	1910644-00	733 DIFFERENTIAL AMP,WID	2		E9,E10
53	53	1910741-00	7406 INVERTER GATE-HEX 1I	1		E7
54	54	1911521-00	7432 OR GATE-QUAD 2IN, PO	1		E1
55	55	1910268-01	DEC 75107B-01 RECEIVER,LINE,DUA	2		E5,E4
56	56	1910725-00	75108B RECEIVER,LINE,DUAL,	1		E6
57	57	1209941-06	HEADER,100 20POS RT ANGLE	1		J6
58	58	1209941-03	HEADER RT ANGLE LEFT L	1		
59	59	1209941-04	HEADER RT ANGLE,RIGHT	1		
60	60	1210385-01	PIN 1POS WIRE WRAP	8		
61	61	9007791-00	TERM PCB 2POS SOLDER,TURRET	2		TP1,TP2
62	62	1303067-00	422 1/4W 1% RN55D-F 100PPM	2		R42,R43
63	63	1300219-00	68.0 .25 W 5.0 % CC	4		R7,R8,R47,R57
64	64	1301423-00	6.80 K .25 W 5.0 % CC	3		R15,R64,R67
65	65	1300391-00	1.50 K .25 W 5.0 % CC	2		R17,R19
66	66	1114117-00	1N 4152 PIV=450 I=75M	3		D2-D4
67	67	1113003-00	IN 5282 PIV=55 I=500M D035	4		D11-D14
68	68	1015573-01	5600.0 MMF 50V 5% CER. \$	5		C3,C6,C7,C13,C14
69	69	1304857-00	237 1/4W 1% RN55D-F 100PPM	1		R1
70	70	1300309-00	390.0 .25 W 5.0 % CC	1		R53
71	71	1013466-17	150 MMF 50V 5% CER	2		C15,C44
72	72	1309150-07	2 K 1/2W10% POT 100PPM	2		R40,R41
73	73	9009185-00	JUMPER, WIRE, INSULATED, BLACK B	2		W1,W2
74	74	1217377-00	TERM QUICK 1POS TAB PC MNT	1		J7
***** UNDERGOING CHANGE *****						

D I G I T A L			TITLE	SECTION A OF A	SIZE! CODE! DOCUMENT NUMBER	REV
			READ/WRITE BOARD		K ! PL ! 5413536-0-DBP	B

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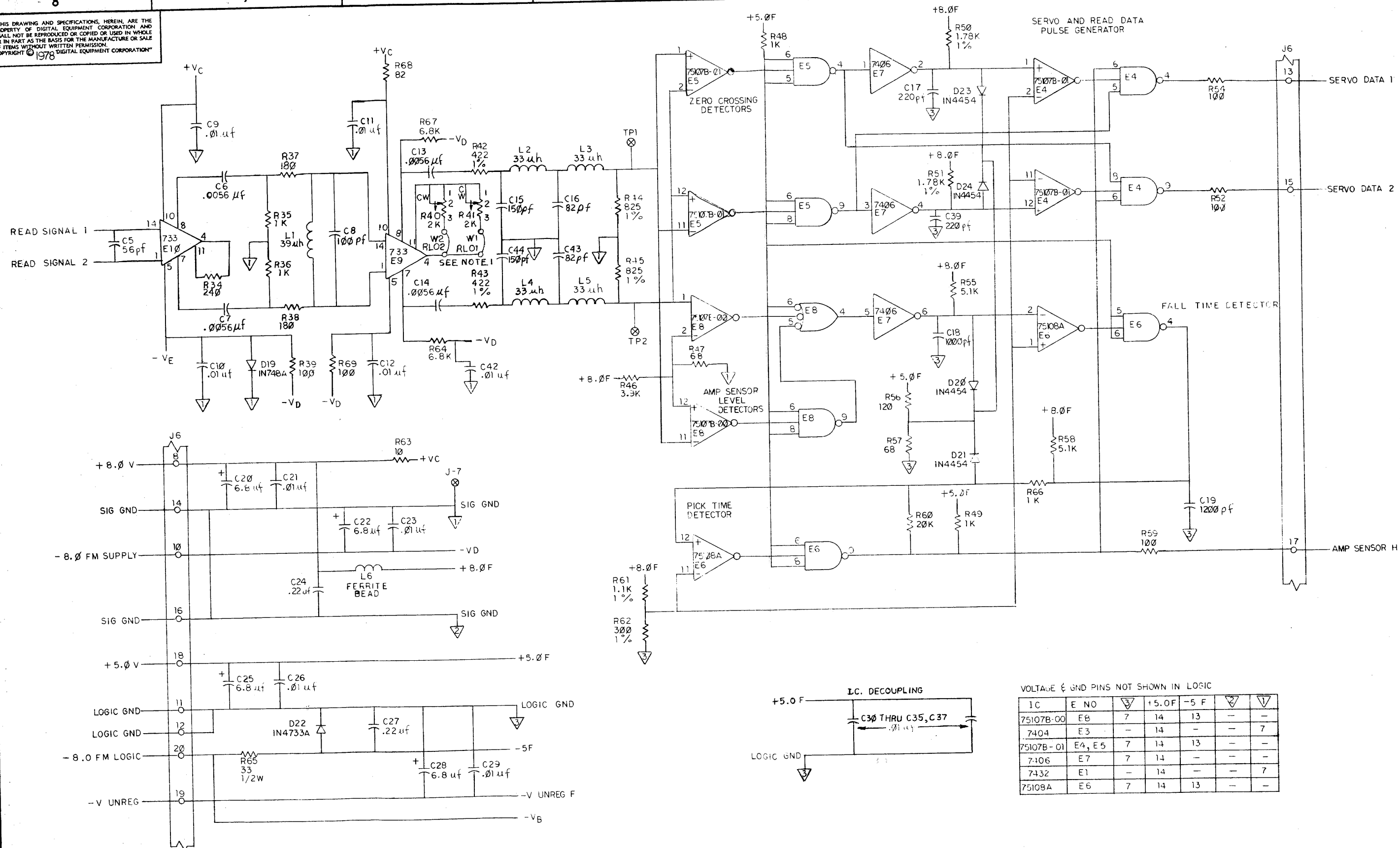


NOTE:
 1. FOR RLO1 CUT W2 AND LEAVE IN W1.
 2. FOR RLO2 CUT W1 AND LEAVE IN W2.

REV.	DATE	BY	CHK'D
1	5/1/78	M. ZARICH	
2	5/1/78	M. ZARICH	
3	5/1/78	M. ZARICH	
4	5/1/78	M. ZARICH	
5	5/1/78	M. ZARICH	
6	5/1/78	M. ZARICH	
7	5/1/78	M. ZARICH	
8	5/1/78	M. ZARICH	

DRN. E. Nichols	1/1/78	FIRST USED ON	RLO2	digital
CHK'D L. R. R. 3/8/78		TITLE	READ/WRITE BOARD	
ENG. R. M. 4/1/78		PROJ. ENG. 4/1/78		
PROD. R. M. 4/1/78		PROD. R. M. 4/1/78		
NEXT HIGHER ASSY.				
SCALE		SIZE	CODE	NUMBER
		D	CS	5413536-0-1
SHEET	1 OF 2	DIST.		REV. 8

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VOLTAGE & GND PINS NOT SHOWN IN LOGIC

IC	E NO		+5.0F	-5 F		
75107B-00	E8	7	14	13	—	—
7404	E3	—	14	—	—	7
75107B-01	E4, E5	7	14	13	—	—
7406	E7	7	14	—	—	—
7432	E1	—	14	—	—	7
75108A	E6	7	14	13	—	—

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	READ/ WRITE BOARD
-------	-------------------

SIZE	CODE	NUMBER
D	CS	5413536-Ø-1

RE	1
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SCALE 1" = 100' SHEET 2 OF 2

SHEET 2 OF

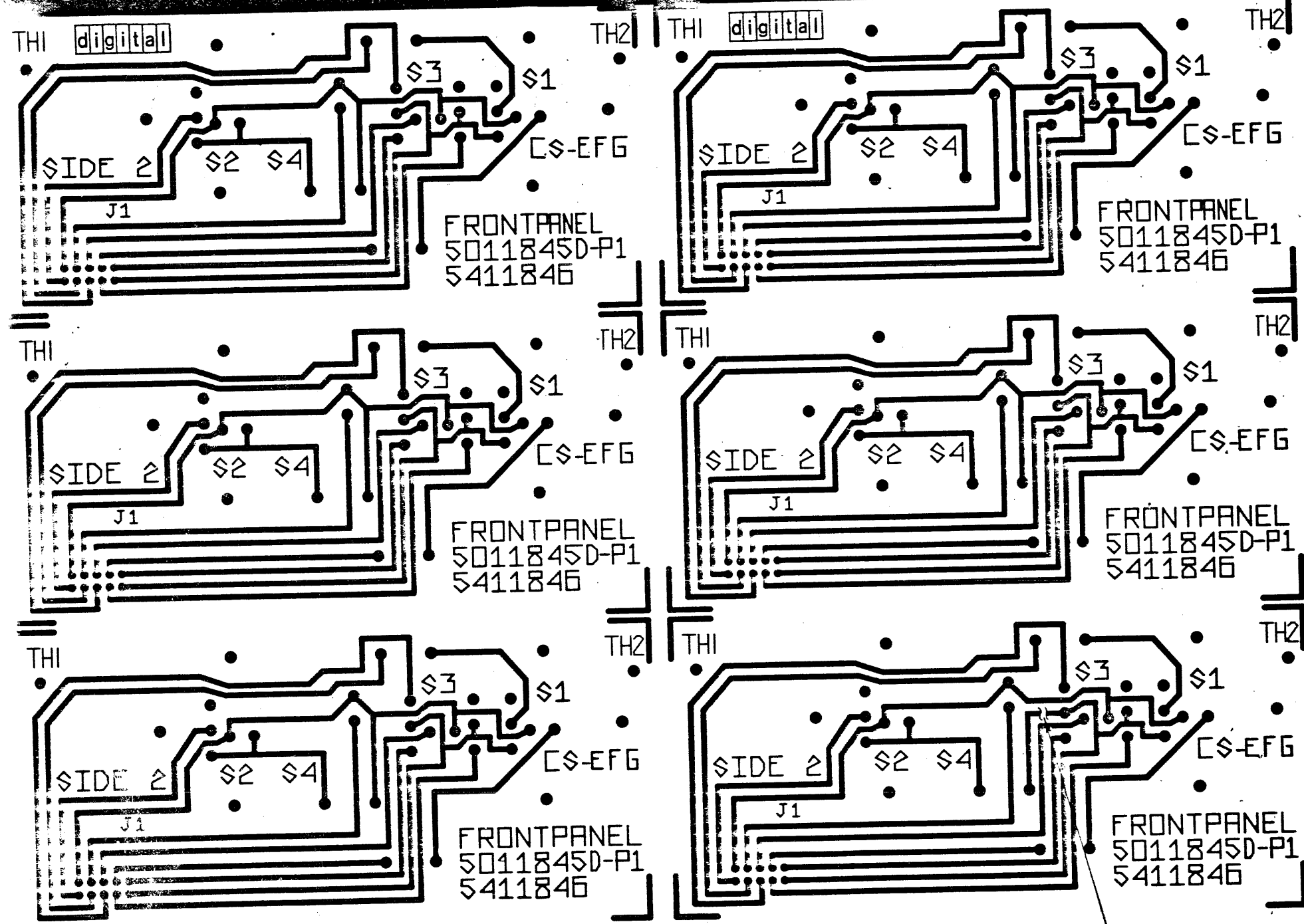
	DIST.
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11

1577



OK	CHANGE NO.	REV.

TITLE	FRONT PANEL	SIZE CODE	D UA 5411846-0-0	REV.	J
SCALE	NONE	SHEET	2 OF 3	DIST.	

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REWORK INSTRUCTIONS:

ECO 541846-CX005:

3-1 SEE D-EC-5011845-0-0 FOR EC REWORK INSTRUCTIONS.

COMPONENT DELETES:

3-2 DELETE RI.

COMPONENT ADDS:

3-3 ADD RI (180 μ).

WIRE ADDS:

3-4 SIDE 2-ADD WIRE FROM S3 PIN 2 TO RI ETCH
(SOLDER FLAT TO ETCH) (6 PLACES).

ECO 5411846-CX006:

WIRE DELETES:

6-1 SIDE 2-DELETE WIRE FROM S3 PIN 2 TO RI ETCH.
(6 PLACES).

WIRE ADDS:

6-2 SIDE 1-ADD WIRE ON LEFT SIDE OF RI TO S3 PIN 2.

REVISION HISTORY

DATE	ECO NUMBER	REV.

DOCUMENT NUMBER

SIZE	CODE	NUMBER	REV.
D	UA	5411846-0-0	J

SCALE NONE SHEET 3 OF 3

TITLE
FRONT PANEL

PARTS LIST

LINE	ITEM	DOCUMENT	NUMBER
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
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94	94	94	94
95	95	95	95
96	96	96	96
97	97	97	97
98	98	98	98
99	99	99	99
100	100	100	100

PART NUMBER

DESCRIPTION

QTY PER VARIATION
00

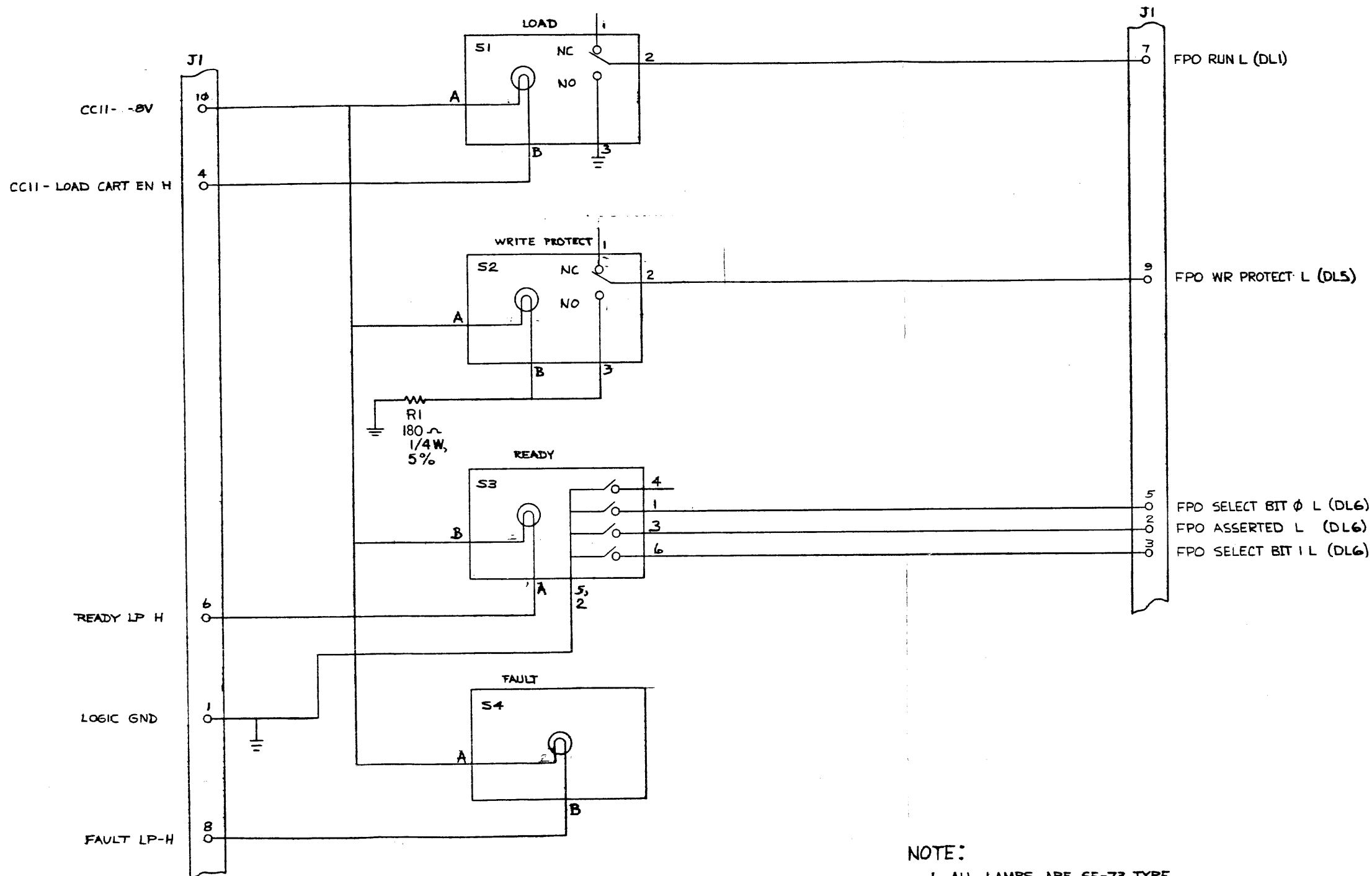
REFERENCE DESIGNATOR

1	1	D-MD-5011845-0-0	5011845-00	54-11846 ETCH CRKT BRD	1	
2	2		1209941-05	HEADER.100 10POS RT ANGLE	1	J1
3	3		1209941-04	HEADER RT ANGLE,RIGHT	1	
4	4		1209941-03	HEADER RT ANGLE LEFT L	1	
5	5		1212690-02	SW,PB 1P RK06 UNIT SELECT	1	S3
6	6		1212691-00	SW,PP CAP "O/READY" FOR 12-1	1	
7	7		1212714-05	SW,PB CAP,YEL/BLK,"LOAD"	1	
8	8		1212714-01	SW,PB CAP,YEL/BLK,"WRITE PROT"	1	
9	9		1212714-02	SW,PB CAP,RED/BLK,"FAULT"	1	
10	10		1212715-02	INDICATOR,DISPLAY PANEL,W/14V LA	1	S4
11	11		1212717-05	SW,PB 1P 3A W/14V LAMP	2	S1,S2
12	12		1212716-01	LAMP,WEDGE,14V	1	
13	13		1213188-01	MOUNTING BRACKET,SWITCH	1	
14	14		1301322-00	180.0 .25 W 5.0 % CC	1	R1
15	15		9006732-00	EYELET, ROLLED FLANGE, .121 OD X	2	
16	16		9107560-01	WIRE,BUSS,22AWG	2	W1,W2
17	17		9006655-00	WASHER, FLAT, .312 O.D. X .125 I	2	

REVISION HISTORY			BASIC PART NO: 5411846		DRN: S. MARLOW		DATE: 7-APR-76		D I G I T A L	
ENG	ECO NUMBER	REV	SECTION A OF A		CHK'D: P. BURNELL		DATE: 10-JAN-77		TITLE PARTS LIST	
MZ	5411846-CX005	J	SECTION VARIATION INDEX		DES.ENG: G. REICHENBERG		DATE: 7-MAR-77		FRONT PANEL	
			[A] 00		RESP.ENG.: G. REICHENBERG		DATE: 7-MAR-77		DOCUMENT NUMBER	
			[B]		MFG.ENG.: L. KIRK		DATE: 9-MAR-77		K PL 5411846-0-DBP J	
			[C]		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:	
			[D]		D-UA-5411846-0-0		* B-DD-5411846-0		Z1580J.PLS	
			[E]						EDIT #	
			[F]						3	
			[G]							
			[H]							
			[I]							
			[J]							
			[K]							
			[L]							
			[M]							
			[N]							

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NOTE:
1. ALL LAMPS ARE 6E-73 TYPE

REV.	CHG. NO.	CHK.
E	5411841-001	W. ZARICH
D	5411841-000	W. ZARICH
C	5411841-000	W. ZARICH
B	5411841-000	W. ZARICH
A	5411841-000	W. ZARICH
F	5411846-CZ002	G. REICHENBERG
H	5411846-CZ003	M. ZARICH
J	5411846-CX005	M. ZARICH
K	5411846-CX006	M. ZARICH

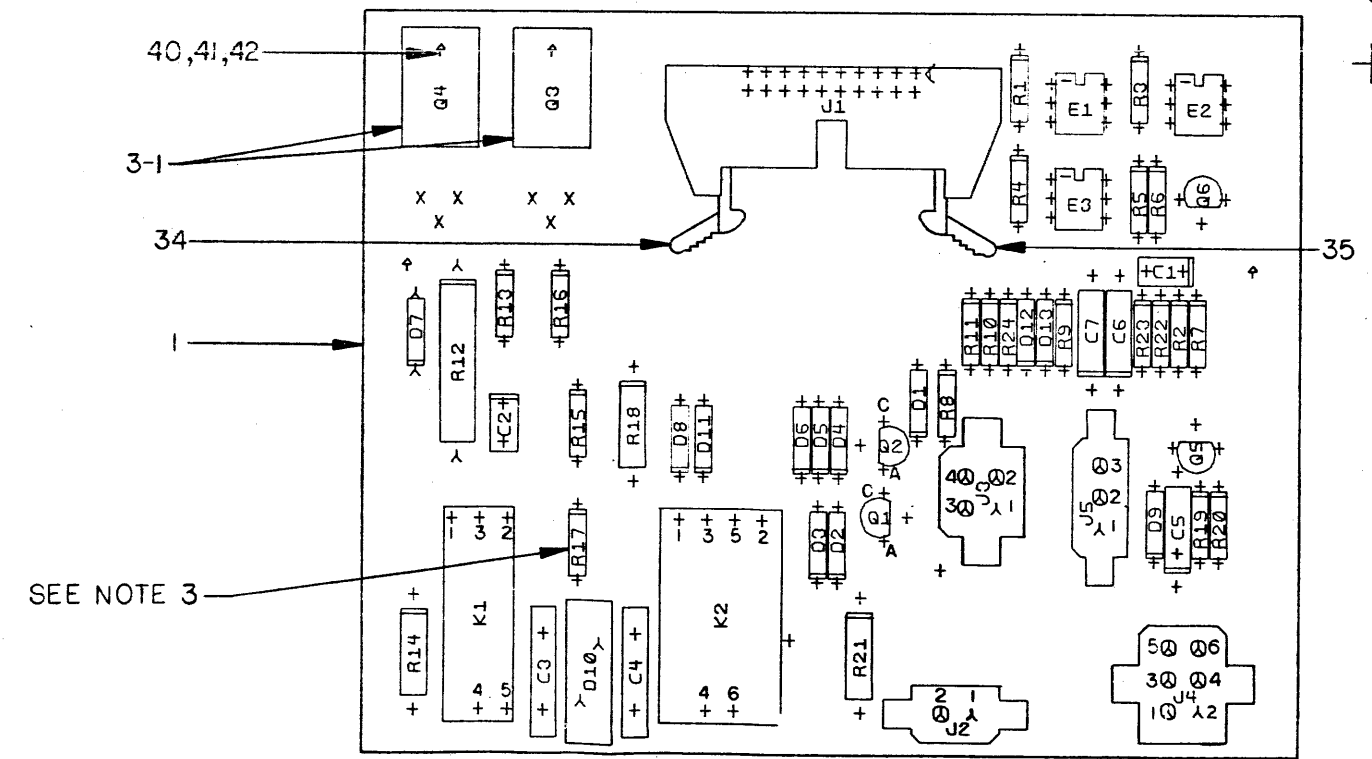
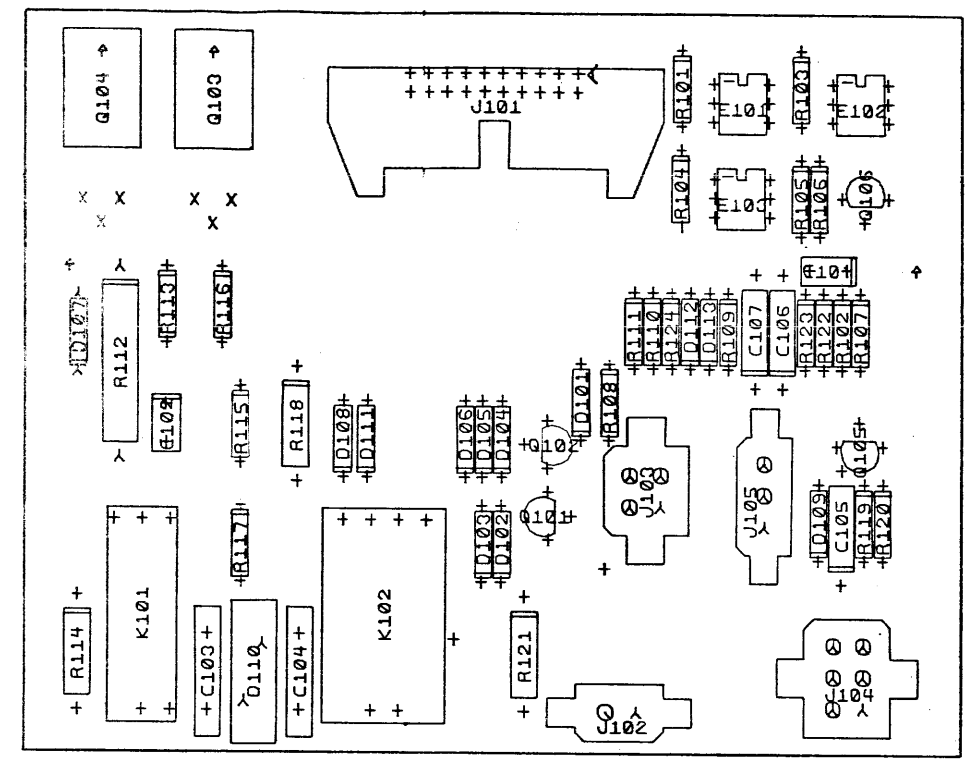
DRN. <i>K. Hagen</i>	27 FEB 76	FIRST USED ON	digital
CHK'D <i>B. E. Hagen</i>	1-11-77	TITLE	FRONT PANEL
ENG. <i>B. E. Hagen</i>	3-7-77	SIZE	D
PROJ. ENG. <i>B. E. Hagen</i>	3-10-77	CODE	CS
PROD. <i>B. E. Hagen</i>	3-9-77	NUMBER	5411846-0-1
NEXT HIGHER ASSY.		REV.	K
SCALE		DIST.	
SHEET	OF		

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8 7 6 5 4 3 2 1
F 48 5411848-0-0

COMPONENT SIDE VIEW

ACTUAL REF DESIGNATORS	SUPERFICIAL REF DESIGNATORS
C1,C2,C3,C4,C5,C6,C7	C101 , C102 , C103 , C104 , C105 , C106 , C107
D1,D2,D3,D4,D5,D6,D7	D101 , D102 , D103 , D104 , D105 , D106 , D107
D8,D9,D10,D11,D12,D13	D108 , D109 , D110 , D111 , D112 , D113
E1,E2,E3	E101 , E102 , E103
K1,K2,K3	K101 , K102 , K103
J1,J2,J3,J4,J5	J101 , J102 , J103 , J104 , J105
Q1,Q2,Q3,Q4,Q5,Q6	Q101 , Q102 , Q103 , Q104 , Q105 , Q106
R1,R2,R3,R4,R5,R6,R7	R101 , R102 , R103 , R104 , R105 , R106 , R107
R8,R9,R10,R11,R12,R13,R14	R108 , R109 , R110 , R111 , R112 , R113 , R114
R15,R16,R17,R18,R19,R20,R21,R22	R115 , R116 , R117 , R118 , R119 , R120 , R121 , R122



NOTES:
1. 8 HOLES .0465 (+.000-.0045) MAYNARD ONLY
2. U/L APPROVAL REQUIRED
3. REWORK INSTRUCTIONS:
1. REMOVE R17 (330Ω, 1/4W, 5%)
2. INSTALL R17 (330Ω, 1/2W, 5%)
STEP E → Y AXIS _____ STEP _____ TIMES
REPEAT → X AXIS _____ STEP _____ TIMES

CHK	CHANGE NO.	REV	DATE	BY	APP
	5411848-0001	D		P. BURNELL	
	5411848-0002	E		W.M. 5411848-0002	
	5411848-0003	F		W.M. 5411848-0003	
	5411848-0004			MAR. 79 P. BURNELL	
	5411848-0005			MAR. 79 M. ZARICH	
	5411848-0006			REDAWN 79	
	5411848-0007			5 JUNE 80	

ETCH REV.	E-P2
P.C. DESIGN DATA BASE REV.	E-P2

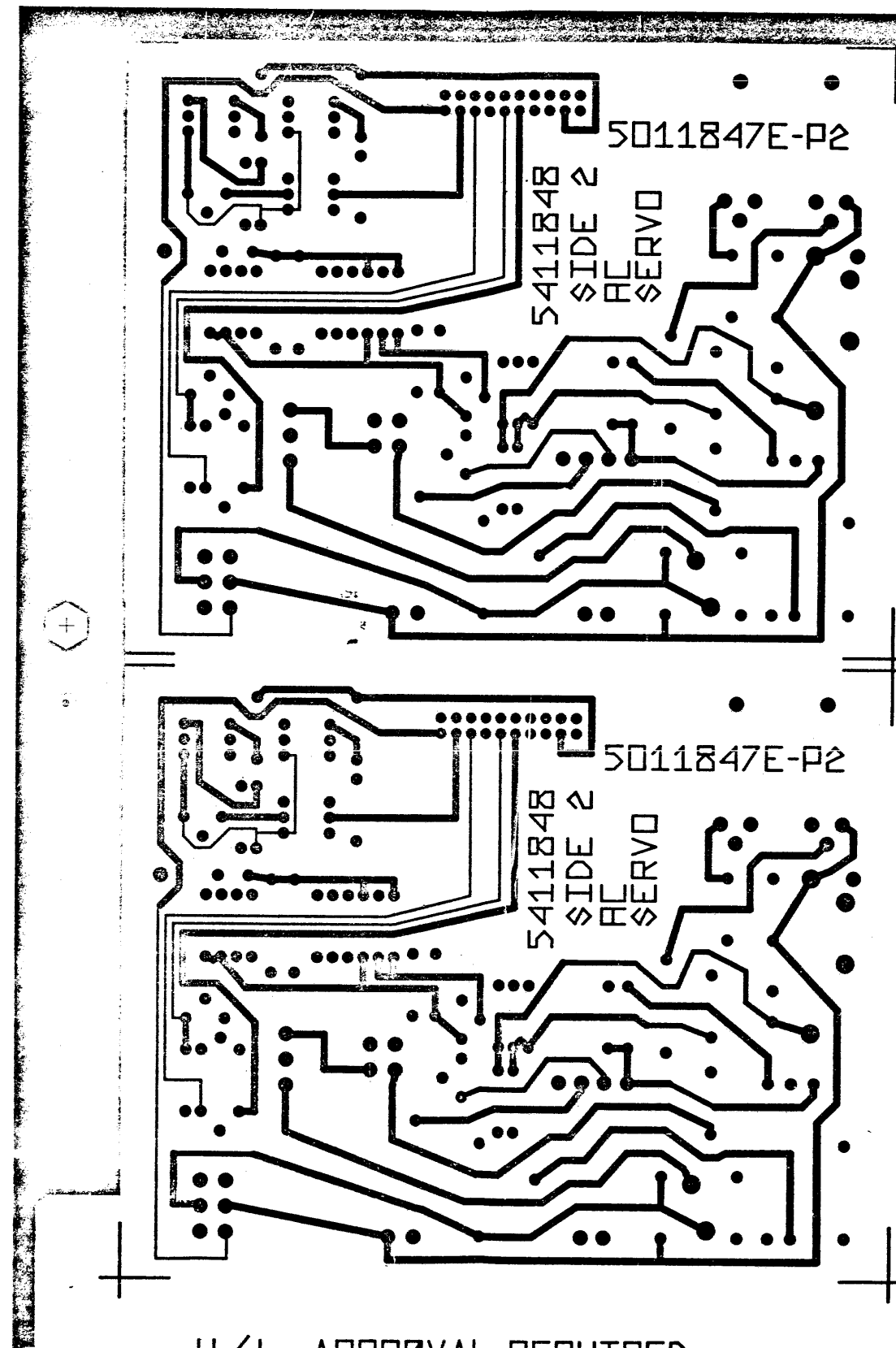
SIGNATURES	DATE	digital
DRN. T. SHETRAWSKI	6-9-77	
CHK'D. T. SHETRAWSKI	15-9-77	
MECH. ENG. G. RIECHENBERG	26-9-77	
PROJ. ENG. P. ARNOLD	26-9-77	
PROD. R. STROTT	26-9-77	TITLE AC SERVO
SCALE 2/1	SIZE CODE NUMBER	REV
SHT. 1 OF 4	0 UA 5411848-0-0	F
NEXT HIGHER ASSY. B-DD-5411848-0		



VIEWED FROM SIDE 1

DEC FORM NO
DDO 137

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U/L APPROVAL REQUIRED

VIEWED FROM SIDE 2

REVISIONS		
CHK	CHANGE NO	REV

DEC FORM NO
DRD 137

TITLE		SIZE CODE	NUMBER	REV.
AC SERVO		DUA	5411848 -0-0	F
SCALE	2:1	SHEET	5 OF 4	DIST.

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REWORK INSTRUCTIONS

3-1. CHANGE Q3 AND Q4 TO I510070-00, ITEM 38.

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE/CODE	NUMBER	REV.
AC SERVO		D UA	5411848-0-0	F
SCALE	SHEET 4 OF 4	DIST.		

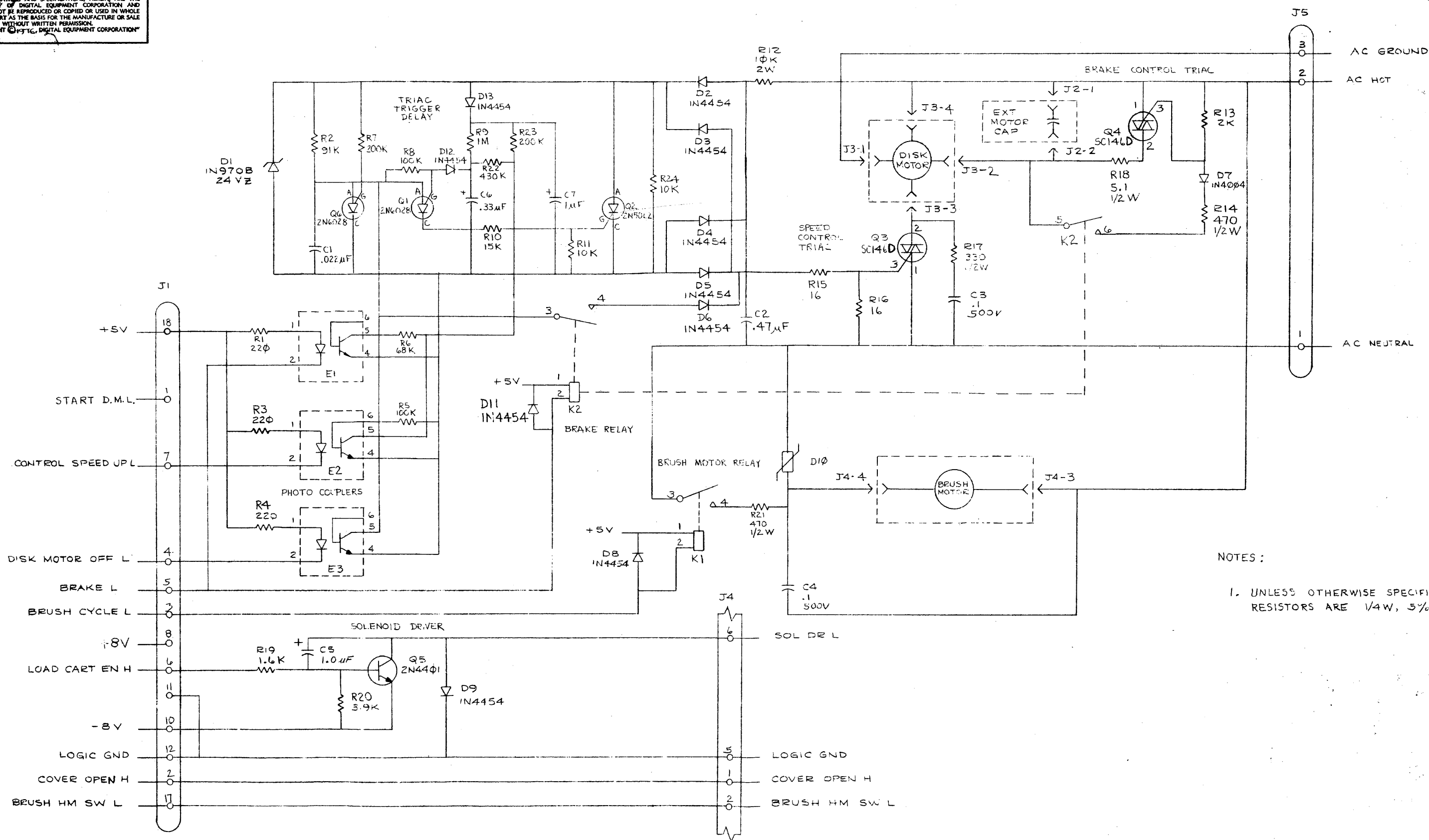
LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
1	1	D-MD-5011847-0-0	5011847-00	ETCH CRKT BRD	1
2	2		1011683-00	.022 MFD 50V 1% 67 CER.	1
3	3		1012312-01	.47 MFD 50V X% 1	C1
4	4		1013682-00	.1 MFD 500V +80 -20% CER.	2
5	5		1001776-00	1 MFD 35V 10% S.TANT	2
6	6		1110856-00	1N 970B VZ= 24.0 5% .40W Y	1
7	7		1111577-00	1N 4454 TR= 4NS PIV= 50 S	10
8	8		1105796-00	1N 4004 PIV=400 I= 1A D041 SP	1
9	9		1510727-01	OPTO COUPLED ISOLATOR	3
10	10		1213917-00	RLY, REED 5V COIL, DPDT	1
11	11		1213915-00	RLY, REED 5V COIL, SPDT	1
12	12		1110997-00	VP 130A10 VOLT. SUPPRESS. 130VAC	1
13	13		1209941-06	HEADER. 100 20POS RT ANGLE	1
14	14		1213922-00	HEADER 2POS	1
15	15		1213922-01	HEADER 3POS	1
16	16		1213922-03	HEADER 4POS	1
17	17		1213922-04	HEADER 6POS	1
18	18		1300315-00	470 1/2W 5% CC	2
19	19		1300271-00	220 1/4W 5% CC	3
20	20		1311220-00	5.1 1/2W 5% CC	1
21	21		1301327-00	68 K 1/4W 5% CC	1
22	22		1302466-00	100 K 1/4W 5% CC	2
23	23		1300444-00	3.9 K 1/4W 5% CC	1
24	24		1314516-00	200 K 1/4W 5% CC	2
25	25		1300496-00	15 K 1/4W 5% CC	1
26	26		1300479-00	10 K 1/4W 5% CC	2
27	27		1300482-00	10 K 2W 10% CC	1
28	28		1312927-00	16 1/4W 5% CC	2
29	29		1314649-00	430 K 1/4W 5% CC	1

REVISION HISTORY	BASIC PART NO: 5411848	DRN:	H. RICHER	DATE: 23 MAR 76	D I G I T A I L
ENG: ECO NUMBER	REV	SECTION A OF A	CHK'D: P. BURNELL	DATE: 10 JAN 77	TITLE PARTS LIST
INITIAL	E	SECTION VARIATION INDEX	DES. ENG: P. BADUM	DATE: 7 JUN 77	AC SERVO
15411848-CZ003	F	[A] 00	RESP. ENG.: P. BADUM	DATE: 7 JUN 77	DOCUMENT NUMBER
		[B]	MFG. ENG.: D. LESAGE	DATE: 7 JUN 77	SIZE CODE NUMBER REV
		[C]	ASSEMBLY NUMBER:		FILE NAME: EDIT #
		[D]	D-UA-5411848-0-0		Z0491.PLS 3
		[E]			
		[F]			
		[G]			
		[H]			
		[I]			
		[J]			
		[K]			
		[L]			
		[M]			
		[N]			

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LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
30	30	1300296-00	330 1/2W 5% CC	1	R17
31	31	1302388-00	2 K 1/4W 5% CC	1	R13
32	32	1309595-00	1 M 1/4W 5% CC	1	R9
33	33	1303176-00	1.6 K 1/4W 5% CC	1	R19
34	34	1209941-03	HEADER RT ANGLE LEFT L	1	J1
35	35	1209941-04	HEADER RT ANGLE RIGHT	1	J1
36	36	1510877-00	2N 602B UJT 300MW R67B	2	Q1, Q6
37	37	1110968-00	2N 5062 SCR@100V I=.8A T092	1	Q2
38	38	1510070-00	TRIAC@400V, I> 8A #RCA40669 M	2	Q3, Q4
39	39	1513487-00	2N 4401 NPN 350MW SI 40-20	1	Q5
40	40	9006557-00	NUT, KEP 4-40X 1/4 AF	2	Q3, Q4
41	41	9006010-01	SCREW, PAN, PHIL, 4-40X 5/16	2	Q3, Q4
42	42	9006655-00	WASHER, FLAT, .312 O.D. X .125 I	2	Q3, Q4
43	43		*** THIS ITEM IS NOT USED ***	-	
44	44	1000002-04	.33 MFD 35V 10% .150D S.TA	1	C6
45	45	1314650-00	91 K 1/4W 5% CC	1	R2

D I G I T A I L	TITLE	SECTION A OF A	SIZE CODE	DOCUMENT NUMBER	REV
	AC SERVO		K PL	5411848-0-DBP	F



NOTES:

1. UNLESS OTHERWISE SPECIFIED:
RESISTORS ARE 1/4W, 5%

DRN. <i>2111176</i>	3/14/76	FIRST USED ON	<i>RLO1</i>		digit
CHK'D <i>2 Bump</i>	1-14-77	TITLE	AC SERVO		
ENG. <i>2111176</i>	6-8-77				
PROJ. ENG. <i>2111176</i>	6/1/77				
PROD. <i>2111176</i>	6/1/77				
NEXT HIGHER ASSY.					
D-UA-5411848-0-0		SIZE	CODE	NUMBER	REV.
SCALE <i>1-1</i>		D	CS	5411848-0-1	F
SHEET <i>1</i> OF <i>1</i>		DIST.			

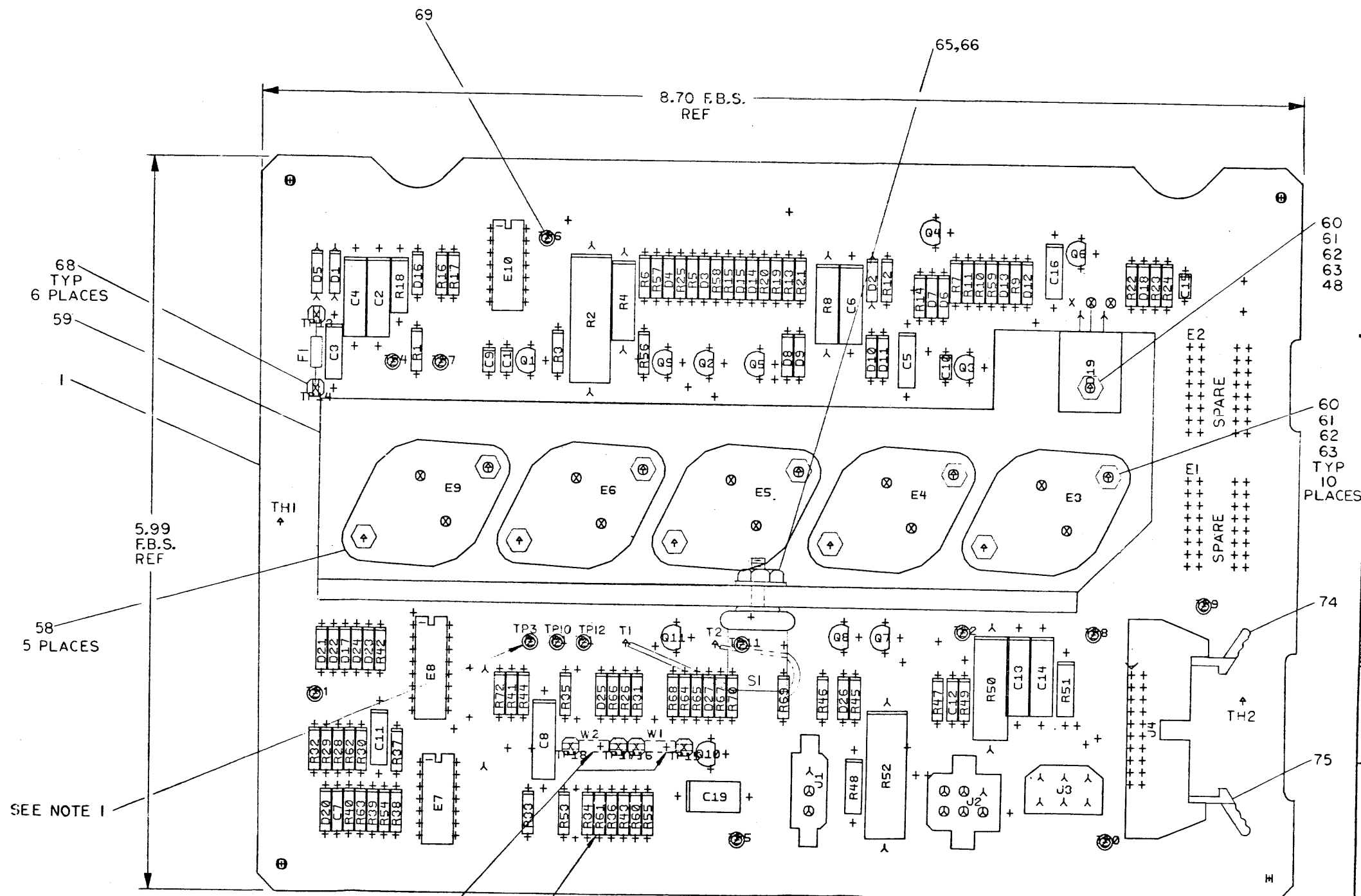
AUTOMATED BY PRTLST.2E(2)

P A R T S L I S T

SHEET A3 OF A3

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
78	78		1312618-00	16.9 K 1/4W 1% RN55D-F 100PPM	1	R40
79	79		1300229-00	100 1/4W 5% CC	1	R63
80	80		1305336-00	*** THIS ITEM IS NOT USED ***	-	
81	81		1309416-00	31.6 K 1/4W 1% RN55D-F 100PPM	1	R65
82	82		1015574-01	*** THIS ITEM IS NOT USED ***	-	
83	83		9009185-00	JUMPER, WIRE, INSULATED, BLACK B	2	W1,W2
84	84		1303044-00	100 K 1/4W 1% RN55D-F 100PPM	1	R64
85	85		1015574-00	*** THIS ITEM IS NOT USED ***	-	
86	86		1315435-00	25.5 K 1/4W 1% RN55D-F 100PPM	1	R66
87	87		1312930-00	5.1 K 1/4W 5% CC	1	R67
88	88		1015520-00	1 MFD 100V 5% M.POLYESTER	1	C19
89	89		1513697-00	2N 5640 FET N CHNNL	1	Q10
90	90		1300479-00	10 K 1/4W 5% CC	1	R69
91	91		1302466-00	100 K 1/4W 5% CC	1	R70

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							D.C. SERVO AND POWER SUPPLY		K	PL	5413534-0-DBP	B



- NOTES:
1. TP3, TP11, TP12, TP15 THRU TP18 TO BE MOUNTED ON SIDE 2.
 2. R60 AND R61 ARE TO BE INSTALLED AFTER FINAL TEST.
 3. INSTALL W1 AND W2 FOR RL01. INSTALL W2 ONLY FOR RL22. W1 & W2 ARE LOCATED ON SIDE 2.

CHK	CHANGE	NO	REV	B	C
5413534-C0011	BOB NOGUCHI				
5413534-C0012	M. J. J. J.				
5413534-C0013	M. J. J. J.				
5413534-C0014	M. J. J. J.				
5413534-C0015	M. J. J. J.				
5413534-C0016	M. J. J. J.				
5413534-C0017	M. J. J. J.				
5413534-C0018	M. J. J. J.				
5413534-C0019	M. J. J. J.				
5413534-C0020	M. J. J. J.				

ETCH REV. E
P.C. DESIGN DATA BASE REV. EL

SIGNATURES	DATE	TITLE	DC SERVO & POWER SUPPLY
DRN. <i>[Signature]</i>	11/1/70		
CHK'D. <i>[Signature]</i>			
ENG. <i>[Signature]</i>			
PROJ. ENG. <i>[Signature]</i>			
PROD. <i>[Signature]</i>			
SCALE 2/1			
SHT. 1 OF 1			
NEXT HIGHER ASSY. 5413534-0-0			

digital

DC SERVO & POWER SUPPLY

SIZE CODE NUMBER REV
D UA 5413534-0-0 C

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
					00		
1	1	D-MD-5013533-0-0	5013533-00	ETCHED CIRCUIT BOARD	1		
2	2		1013466-08	680.0 MMF 50V 10% X7R CER	1		C12
3	3		1016009-00	2200.0 MMF 50V 5% CER	1		C7
4	4		1001610-00	.01 MFD 50V +80-20% 25U CER	4		C1,C9,C10,C15
5	5		1002630-00	.015 MFD 100V 10% MYLR	1		C8
6	6		1013466-11	.22 MFD 50V +80-20% Z5U CER	4		C3,C5,C11,C16
7	7		1005306-00	6.8MFD 35V 10% S.TANT	4		C4,C6,C13,C14
8	8		1000076-00	39 MFD 10V 10% S.TANT	1		C2
9	9		1309422-00	5.10 .25 W 5.0 % CC	1		R58
10	10		1312929-00	62.0 .25 W 5.0 % CC	2		R3,R23
11	11		1311523-00	110.0 .25 W 5.0 % CC	1		R22
12	12		1300247-00	120.0 .25 W 5.0 % CC	1		R13
13	13		1300271-00	220.0 .25 W 5.0 % CC	1		R59
14	14		1301425-00	300.0 .25 W 5.0 % CC	1		R55
15	15		1303178-00	620.0 .25 W 5.0 % CC	1		R6
16	16		1300365-00	1.0 K .25 W 5.0 % CC	5		R1,R7,R39,R44,R57
17	17		1300391-00	1.50 K .25 W 5.0 % CC	1		R5
18	18		1302388-00	2.0 K .25 W 5.0 % CC	2		R31,R43
19	19		1300426-00	2.70 K .25 W 5.0 % CC	2		R46,R47
20	20		1302389-00	4.30 K .25 W 5.0 % CC	1		R53
21	21		1300447-00	4.70 K .25 W 5.0 % CC	10		R10-R12,R14,R15,R19,R20,R24,R49,
						CONT	R68
22	22		1303179-00	8.20 K .25 W 5.0 % CC	3		R9,R16,R17
23	23		1300488-00	12.0 K .25 W 5.0 % CC	4		R25,R26,R45,R56
24	24		1305346-00	27.0 K .25 W 5.0 % CC	1		R21
25	25		1305131-00	*** THIS ITEM IS NOT USED ***	-		
26	26		1312923-00	2.10 K .25 W 1.0 % RN55D-F10	1		R41
27	27		1305114-00	3.48 K .25 W 1.0 % RN55D-F10	1		R34
28	28		1314763-00	4.12 K .25 W 1.0 % RN55D-F10	1		R36
29	29		1303312-00	10.0 K .25 W 1.0 % RN55D-F10	3		R28,R29,R62

REVISION HISTORY			BASIC PART NO: 5413534			DRN: JERRY BEST		DATE: 26-JUL-78		D I G I T A L		
ENG	ECO NUMBER	REV	SECTION A OF A			CHK'D: JERRY BEST		DATE: 26-JUL-78		TITLE PARTS LIST		
---	INIT	A	SECTION VARIATION INDEX			CHK'D: JERRY BEST		DATE: 26-JUL-78		D.C. SERVO AND POWER SUPPLY		
BN	5413534-CZ001	B	[A] 00			DES.ENG: R. NOGUCHI		DATE:		DOCUMENT NUMBER		
MZ	5413534-CX003	C	[B]			RESP.ENG.: R. NOGUCHI		DATE: 26-JUL-78		SIZE CODE NUMBER REV		
			[C]			MFG.ENG.: F. CHURCH		DATE:		K PL 5413534-0-DBP C		
			[D]			ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME: EDIT #		
			[E]			ID-UA-5413534-0-0		IRL02		Z0494C.PLS 18		
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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
					00		
30	30		1312924-00	10.70 K .25 W 1.0 % RN55D-F10	1		R32
31	31		1309412-00	18.20 K .25 W 1.0 % RN55D-F10	1		R33
32	32		1315436-00	52.30 K .25 W 1.0 % RN55D-F10	1		R54
33	33		1304843-00	243.0 K .25 W 1.0 % RN55D-F10	1		R72
34	34		1315437-00	237.0 K .25 W .10% RN55D-F10	1		R38
35	35		1302378-00	51.0 .50 W 5.0 % CC	1		R51
36	36		1300364-00	1.0 K .50 W 5.0 % CC	2		R18,R48
37	37		1314068-00	360.0 1.0 W 5.0 % CC	1		R4
38	38		1300368-00	1.0 K 1.0 W 5.0 % CC	1		R8
39	39		1301494-00	200.0 2.0 W 5.0 % CC	1		R50
40	40		1313358-00	.20 5.0 W 3.0 % WW	2		R2,R52
41	41		1105796-00	1N 4004 PIV=400 I= 1A D041 SP	3		D1,D2,D5
42	42		1113953-00	1N 5523D VZ= 5.1 1% 1Z	8		D4,D6,D8,D9,D16,D18,D21,D22
43	43		1109990-00	1N 757A VZ= 9.1 5% .40W P	2		D23,D24
44	44		1110994-00	1N 751A VZ= 5.1 5% .40W	1		D14
45	45		1114117-00	1N 4152 PIV=450 I=75M	6		D3,D7,D10,D11,D12,D13
46	46		1111577-00	1N 4454 TR= 4NS PIV= 50 S	6		D15,D17,D20,D25-D27
47	47		1513698-00	TRIAC0200V,I>14A	1		D19
48	48		9009597-00	INSULATOR, THERMA-FILM	1		
49	49		1513489-00	2N 4401 NPN 350MW SI 40 20	4		Q2,Q4,Q8,Q9
50	50		1513490-00	2N 4403 PNP 350MW SI-40 30	6		Q1,Q3,Q5-Q7,Q11
51	51		1511282-00	MJ2500 PNP 150WC SI 60 5 1K 5A	2		E4,E6
52	52		1511349-00	TIP 640 (OR MJ3000) NPN DARLNGT	1		E3
53	53		1911706-00	5012 ANALOG SWITCH,4CHNL	1		E8
54	54		1912818-00	LS38 NAND BUFFER-QUAD 2IN	1		E10
55	55		1912107-01	324ANOP AMP,QUAD	1		E7
56	56		1913695-00	7808 VOLT REG,FIX +8V	1		E9
57	57		1913694-00	7908 VOLT REG,FIX -8V	1		E5
58	58		9008419-00	WASHER, FLAT, THERMAFILM .002THK	5		
59	59		7418595-00	HEATSINK ASSEMBLY	1		
60	60		9008033-01	SCREW,PAN,PHIL 4-40X 9/16 SS	11		
61	61		9006557-00	NUT,KEP , 4-40X 1/4 AF	11		
62	62		9006655-00	WASHER, FLAT, .312 O.D. X .125 I	11		
63	63		9008268-00	COMPOUND, THERMAL JDINT	A/R		
64	64		1210824-00	THERMOSTAT,00215,C0156,SPST,NORM	1		S1
65	65		9008185-00	NUT,KEP , 6-32X1/4 AF	1		
66	66		9006653-00	WASHER, FLAT, .375 O.D. X .156 I	1		
67	67		1205747-00	FUSE, SUB-MINI, 5.000A, 125V, A	1		F1
68	68		9006735-00	EYELET, FUNNEL FLANGE, .059 OD X	6		TP13-TP18
69	69		9007791-00	TERM PCB 2POS SOLDER,TURRET	13		TP0-TP12
70	70		1213922-01	HEADER 3POS	1		J1
71	71		1213922-04	HEADER 6POS	1		J2
72	72		1213900-00	CONN,RCPT 6POS	1		J3
73	73		1209941-06	HEADER,100 20POS RT ANGLE	1		J4
74	74		1209941-04	HEADER RT ANGLE,RIGHT	1		
75	75		1209941-03	HEADER RT ANGLE LEFT L	1		
76	76		1305324-00	4.99 K .25 W 1.0 % RN55D-F10	2		R37,R30
77	77		1300250-00	150.0 .25 W 5.0 % CC	1		R42

D I G I T A L			TITLE			SECTION A OF A			SIZE CODE DOCUMENT NUMBER			REV		
									K PL 5413534-0-DBP			C		

AUTOMATED BY PRTLST.2E(2)

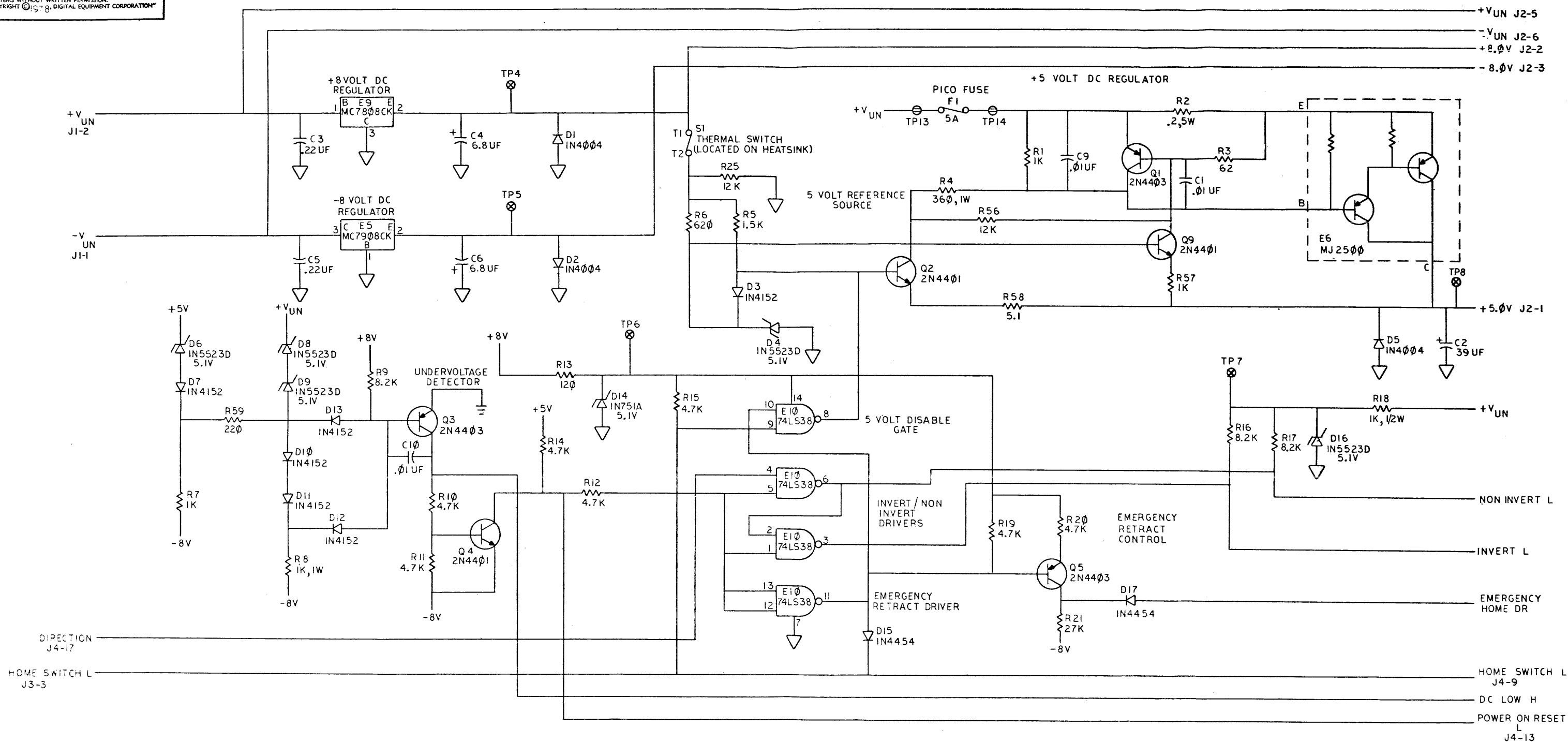
P A R T S L I S T

SHEET A3 OF A3

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
78	78		1312618-00	16.90 K .25 W 1.0 % RN55D-F10	1	R40
79	79		1300229-00	100.0 .25 W 5.0 % CC	1	R63
80	80		1305336-00	*** THIS ITEM IS NOT USED ***	-	
81	81		1309416-00	31.60 K .25 W 1.0 % RN55D-F10	1	R65
82	82		1002781-00	100 MFD 25V +75-10% AL EL	1	C20
83	83		9009185-00	JUMPER, WIRE, INSULATED, BLACK B	2	W1,W2
84	84		1303044-00	100.0 K .25 W 1.0 % RN55D-F10	1	R64
85	85		1015574-00	*** THIS ITEM IS NOT USED ***	-	
86	86		1315435-00	25.50 K .25 W 1.0 % RN55D-F10	1	R66
87	87		1312930-00	5.10 K .25 W 5.0 % CC	1	R67
88	88		1015520-00	1 MFD 100V 5% MET. MYLR	1	C19
89	89		1513697-00	2N 5640 FET N CHNNL	1	Q10
90	90		1300479-00	10.0 K .25 W 5.0 % CC	1	R69
91	91		1302466-00	100.0 K .25 W 5.0 % CC	1	R70
92	92		9105740-55	WIRE(WRAP)30AWG UL1423	A/R	

TITLE										SIZE	CODE	DOCUMENT NUMBER	REV		
D	I	G	I	T	A	L	D.C. SERVO AND POWER SUPPLY				SECTION A OF A	K	PL	5413534-0-DBP	C

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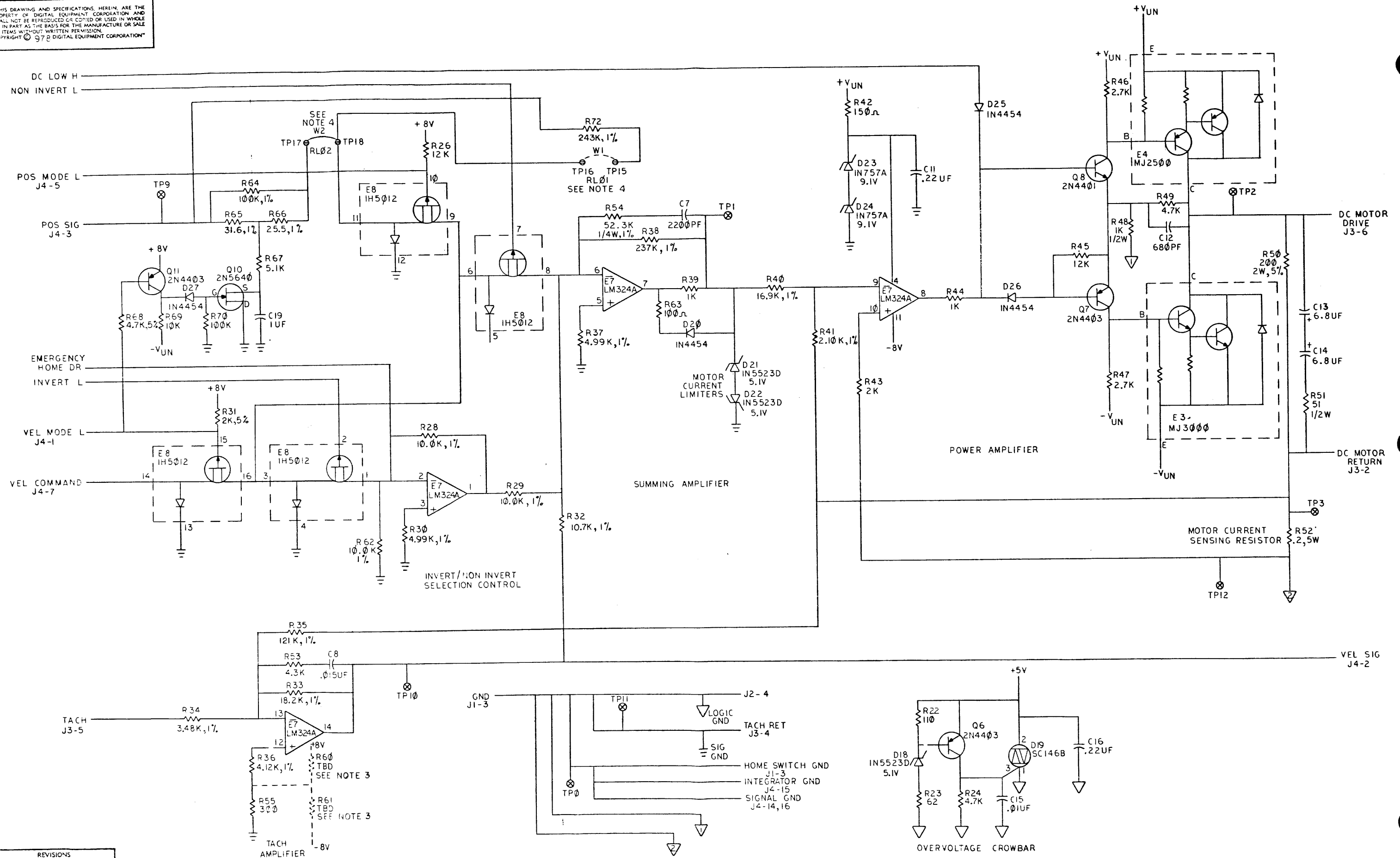
NOTES:

- ALL RESISTORS TO BE 1/4W, 5%; UNLESS OTHERWISE SPECIFIED.
- E1 AND E2 ARE SPARES.
- VALUE OF R60 OR R61 WILL BE DETERMINED IN TESTING.
- INSTALL W1 AND W2 FOR RL01 ON SIDE 2. INSTALL W2 ONLY FOR RL02 ON SIDE 2.

REV.	CHG.	NO.	DATE	BY	CHK.
B					
C					
D					
E					
F					
G					
H					
I					
J					
K					
L					
M					
N					
O					
P					
Q					
R					
S					
T					
U					
V					
W					
X					
Y					
Z					

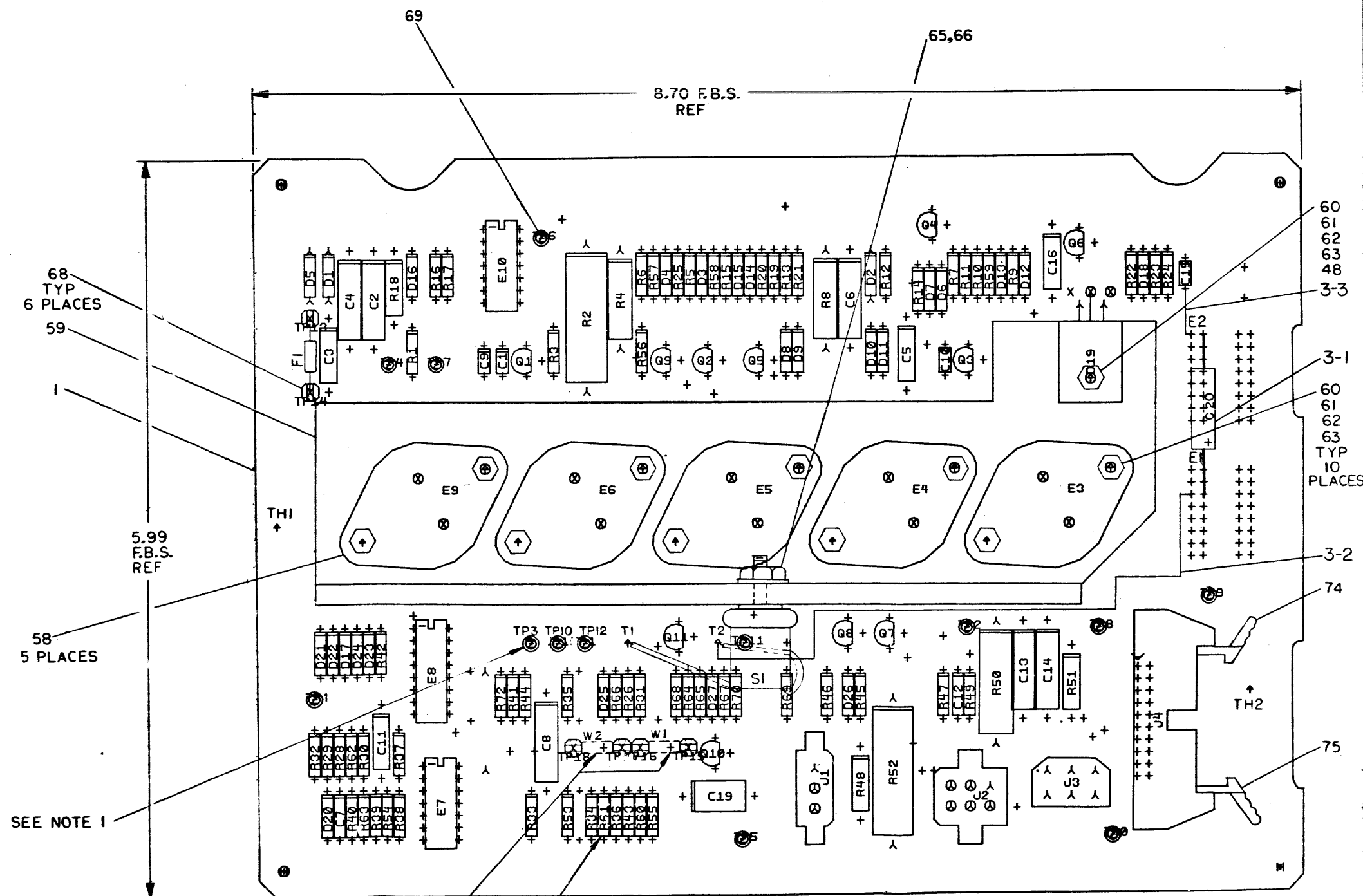
QUANTITY & VARIATION		DESCRIPTION		DWG./PART NO.	ITEM NO.
THIRD ANGLE PROJECTION		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			
REMOVE BURRS AND BREAK SHARP CORNERS		CLASS OF ACCURACY			
DO NOT SCALE DWG		SURFACE QUALITY			
MATERIAL		FINISH			
FIRST USED ON		TITLE			
DC SERVO AND POWER SUPPLY		D-UA-54-3534-0-0			
SCALE		SHEET			
OF 2		DIST.			

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REVISIONS		
CHK	CHANGE NO	REV.

TITLE		SIZE CODE	NUMBER	REV.
DC SERVO AND POWER SUPPLY		D	CS 5413534-0-1	C
SCALE	SHEET	OF	DIST.	



NOTES:

1. TP3, TP11, TP12 & TP15 THRU TP18 TO BE MOUNTED ON SIDE 2.
2. R60 AND R61 ARE TO BE INSTALLED AFTER FINAL TEST.
3. INSTALL W1 AND W2 FOR RL01. INSTALL W2 ONLY FOR RL02. W1 & W2 ARE LOCATED ON SIDE 2.

CHK	CHANGE NO	REV	B	C	D
5413534-C200	BOB NOGUCHI				
5413534-C201	M. Zarich				
5413534-C202	M. Zarich				
5413534-C203	M. Zarich				
5413534-C204	M. Zarich				
5413534-C205	M. Zarich				
5413534-C206	M. Zarich				
5413534-C207	M. Zarich				
5413534-C208	M. Zarich				
5413534-C209	M. Zarich				
5413534-C210	M. Zarich				
5413534-C211	M. Zarich				
5413534-C212	M. Zarich				
5413534-C213	M. Zarich				
5413534-C214	M. Zarich				
5413534-C215	M. Zarich				
5413534-C216	M. Zarich				
5413534-C217	M. Zarich				
5413534-C218	M. Zarich				
5413534-C219	M. Zarich				
5413534-C220	M. Zarich				

SEE NOTE 3

SEE NOTE 2

ETCH REV. B
P.C. DESIGN DATA BASE REV. BL

SIGNATURES	DATE
DRN. Fred R. Kendrick	6/15/78
CHK'D. Bob Nozuchi	6/15/78
ENG. M. Zarich	6/15/78
PROD. M. Zarich	6/15/78
SCALE 2/1	
SHT. 1 OF 2	
NEXT HIGHER ASSY. B-00-5413534-0	

digital
TITLE DC SERVO & POWER SUPPLY
SIZE CODE NUMBER REV
D UA 5413534-0-0 D

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REWORK INSTRUCTIONS:

ECO 5413534-CX003

COMPONENT ADDS SIDE 1:

- 3-1 ADD POLARIZED SIDE OF C20 (1002781-00)
AT E1-3 AND THE GND SIDE AT E2-1.

WIRE ADDS SIDE 1:

- 3-2 ADD WIRE FROM THE PTH NEXT TO
E1-3 TO T2.
3-3 ADD WIRE FROM THE PTH NEXT TO
E2-1 TO C15 GND (BOTTOM).

REVISION HISTORY		
DATE	ECO NUMBER	REV.

TITLE
DC SERVO AND
POWER SUPPLY

DOCUMENT NUMBER		
SIZE CODE	NUMBER	REV.
DUA	5413534-0-0	D
SCALE	SHEET 2 OF 2	

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
					00		
1	1	D-MD-5013533-0-0	5013533-00	ETCHED CIRCUIT BOARD	1		
2	2		1013466-08	680.0 MMF 50V 10% X7R CER	1		C12
3	3		1016009-00	2200.0 MMF 50V 5% CER	1		C7
4	4		1001610-00	.01 MFD 50V +80-20% Z5U CER	4		C1,C9,C10,C15
5	5		1002630-00	.015 MFD 100V 10% MYLR	1		C8
6	6		1013466-11	.22 MFD 50V +80-20% Z5U CER	4		C3,C5,C11,C16
7	7		1005306-00	*** THIS ITEM IS NOT USED ***	-		
8	8		1000076-00	*** THIS ITEM IS NOT USED ***	-		
9	9		1309422-00	5.10 .25 W 5.0 % CC	1		R58
10	10		1312929-00	62.0 .25 W 5.0 % CC	2		R3,R23
11	11		1311523-00	110.0 .25 W 5.0 % CC	1		R22
12	12		1300247-00	120.0 .25 W 5.0 % CC	1		R13
13	13		1300271-00	220.0 .25 W 5.0 % CC	1		R59
14	14		1301425-00	300.0 .25 W 5.0 % CC	1		R55
15	15		1303178-00	620.0 .25 W 5.0 % CC	1		R6
16	16		1300365-00	1.0 K .25 W 5.0 % CC	5		R1,R7,R39,R44,R57
17	17		1300391-00	1.50 K .25 W 5.0 % CC	1		R5
18	18		1302388-00	2.0 K .25 W 5.0 % CC	2		R31,R43
19	19		1300426-00	2.70 K .25 W 5.0 % CC	2		R46,R47
20	20		1302389-00	4.30 K .25 W 5.0 % CC	1		R53
21	21		1300447-00	4.70 K .25 W 5.0 % CC	10		R10-R12,R14,R15,R19,R20,R24,R49,R68
22	22		1303179-00	8.20 K .25 W 5.0 % CC	3	CONT	R9,R16,R17
23	23		1300488-00	12.0 K .25 W 5.0 % CC	4		R25,R26,R45,R56
24	24		1305346-00	27.0 K .25 W 5.0 % CC	1		R21
25	25		1305131-00	*** THIS ITEM IS NOT USED ***	-		
26	26		1312923-00	2.10 K .25 W 1.0 % RN55D-F10	1		R41
27	27		1305114-00	3.48 K .25 W 1.0 % RN55D-F10	1		R34
28	28		1314763-00	4.12 K .25 W 1.0 % RN55D-F10	1		R36
29	29		1303312-00	10.0 K .25 W 1.0 % RN55D-F10	3		R28,R29,R62

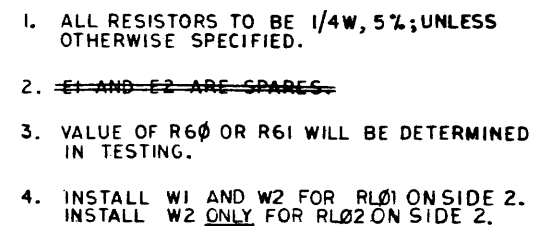
REVISION HISTORY			BASIC PART NO: 5413534			DRN: JERRY BEST			DATE: 26-JUL-78			D I G I T A L		
ENG	ECO NUMBER	REV	SECTION A OF A			CHK'D: JERRY BEST			DATE: 26-JUL-78			TITLE PARTS LIST		
---	INIT	A	SECTION VARIATION INDEX			DES.ENG: R. NOGUCHI <td colspan="3">DATE:</td> <td colspan="3">D.C. SERVO AND POWER SUPPLY</td>			DATE:			D.C. SERVO AND POWER SUPPLY		
BN	5413534-CZ001	B	[A] 00			RESP.ENG.: R. NOGUCHI <td colspan="3">DATE: 26-JUL-78</td> <td colspan="3">DOCUMENT NUMBER</td>			DATE: 26-JUL-78			DOCUMENT NUMBER		
MZ	5413534-CX003	C	[B]			MFG.ENG.: P. CHURCH <td colspan="3">DATE:</td> <td colspan="3">SIZE CODE NUMBER REV</td>			DATE:			SIZE CODE NUMBER REV		
MZ	5413534-CX004	D	[C]			ASSEMBLY NUMBER:			TOP DOCUMENT NUMBER:			FILE NAME: EDIT #		
			[D]			D-UA-5413534-0-0			RL02			Z0494D.PLS 20		
			[E]											
			[F]											
			[G]											
			[H]											
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			[J]											
			[K]											
			[L]											
			[M]											
			[N]											
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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
					00		
30	30		1312924-00	10.70 K .25 W 1.0 % RN55D-F10	1		R32
31	31		1309412-00	18.20 K .25 W 1.0 % RN55D-F10	1		R33
32	32		1315436-00	52.30 K .25 W 1.0 % RN55D-F10	1		R54
33	33		1304843-00	243.0 K .25 W 1.0 % RN55D-F10	1		R72
34	34		1315437-00	237.0 K .25 W .10% RN55D-F10	1		R38
35	35		1302378-00	51.0 .50 W 5.0 % CC	1		R51
36	36		1300364-00	1.0 K .50 W 5.0 % CC	2		R18,R48
37	37		1314068-00	360.0 1.0 W 5.0 % CC	1		R4
38	38		1300368-00	1.0 K 1.0 W 5.0 % CC	1		R8
39	39		1301494-00	200.0 2.0 W 5.0 % CC	1		R50
40	40		1313358-00	.20 5.0 W 3.0 % WW	2		R2,R52
41	41		1105796-00	1N 4004 PIV=400 I= 1A D041 SP	3		D1,D2,D5
42	42		1113953-00	1N 5523D VZ= 5.1 1% .40W P	8		D4,D6,D8,D9,D16,D18,D21,D22
43	43		1109990-00	1N 757A VZ= 9.1 5% .40W P	2		D23,D24
44	44		1110994-00	1N 751A VZ= 5.1 5% .40W	1		D14
45	45		1114117-00	1N 4152 PIV=40 I=75	6		D3,D7,D10,D11,D12,D13
46	46		1111577-00	1N 4454 TR= 4NS PIV= 50 S	6		D15,D17,D20,D25-D27
47	47		1513698-00	TRIAC0200V,I>14A	1		D19
48	48		9009597-00	INSULATOR, THERMA-FILM	1		
49	49		1513489-00	2N 4401 NPN 350MW SI 40 20	4		Q2,Q4,Q8,Q9
50	50		1513490-00	2N 4403 PNP 350MW SI-40 30	6		Q1,Q3,Q5-Q7,Q11
51	51		1511282-00	MJ2500 PNP 150WC SI 60 5 1K 5A	2		E4,E6
52	52		1511349-00	TIP 640 (OR MJ3000) NPN DARLNGT	1		E3
53	53		1911706-00	5012 ANALOG SWITCH,4CHNL	1		E8
54	54		1912818-00	LS38 NAND BUFFER-QUAD 2IN	1		E10
55	55		1912107-01	324ANOP AMP,QUAD	1		E7
56	56		1913695-00	7808 VOLT REG,FIX +8V	1		E9
57	57		1913694-00	7908 VOLT REG,FIX -8V	1		E5
58	58		9008419-00	WASHER, FLAT, THERMAFILM .002THK	5		
59	59		7418595-00	HEATSINK ASSEMBLY	1		
60	60		9008033-01	SCREW,PAN,PHIL 4-40X 9/16 SS	11		
61	61		9006557-00	NUT,KEP , 4-40X 1/4 AF	11		
62	62		9006655-00	WASHER, FLAT, .312 O.D. X .125 I	11		
63	63		9008268-00	COMPOUND, THERMAL JOINT	A/R		
64	64		1210824-00	THERMOSTAT,00215,C0156,SPST,NORM	1		S1
65	65		9008185-00	NUT,KEP , 6-32X1/4 AF	1		
66	66		9006653-00	WASHER, FLAT, .375 O.D. X .156 I	1		
67	67		1205747-00	FUSE, SUB-MINI, 5.000A, 125V, A	1		F1
68	68		9006735-00	EYELET, FUNNEL FLANGE, .059 OD X	6		TP13-TP18
69	69		9007791-00	TERM PCB 2POS SOLDER,TURRET	13		TP0-TP12
70	70		1213922-01	HEADER 3POS	1		J1
71	71		1213922-04	HEADER 6POS	1		J2
72	72		1213900-00	CONN,RCPT 6POS	1		J3
73	73		1209941-06	HEADER,100 20POS RT ANGLE	1		J4
74	74		1209941-04	HEADER RT ANGLE,RIGHT	1		
75	75		1209941-03	HEADER RT ANGLE LEFT L	1		
76	76		1305324-00	4.99 K .25 W 1.0 % RN55D-F10	2		R37,R30
77	77		1300250-00	150.0 .25 W 5.0 % CC	1		R42

D I G I T A L			TITLE			SECTION A OF A			SIZE CODE DOCUMENT NUMBER REV		
									K PL 5413534-0-DBP		D

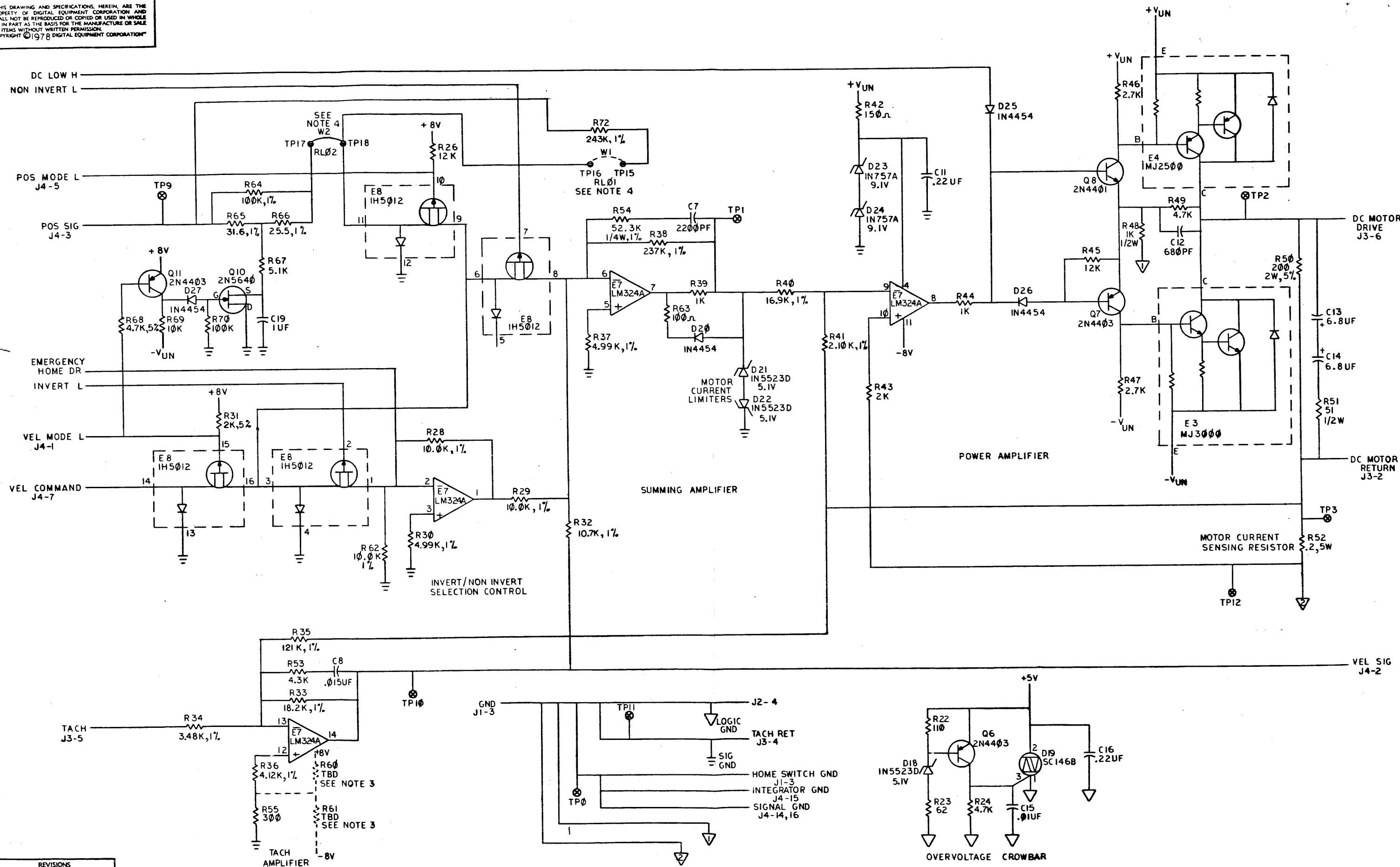
LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
78	78		1312618-00	16.90 K .25 W 1.0 % RN55D-F10	1	R40
79	79		1300229-00	100.0 .25 W 5.0 % CC	1	R63
80	80		1305336-00	*** THIS ITEM IS NOT USED ***	-	
81	81		1309416-00	31.60 K .25 W 1.0 % RN55D-F10	1	R65
82	82		1002781-00	100 MFD 25V +75-10% AL EL	1	C20
83	83		9009185-00	JUMPER, WIRE, INSULATED, BLACK B	2	W1,W2
84	84		1303044-00	100.0 K .25 W 1.0 % RN55D-F10	1	R64
85	85		1015574-00	*** THIS ITEM IS NOT USED ***	-	
86	86		1315435-00	25.50 K .25 W 1.0 % RN55D-F10	1	R66
87	87		1312930-00	5.10 K .25 W 5.0 % CC	1	R67
88	88		1015520-00	1 MFD 100V 5% MET. MYLR	1	C19
89	89		1513697-00	2N 5640 FET N CHNNL	1	Q10
90	90		1300479-00	10.0 K .25 W 5.0 % CC	1	R69
91	91		1302466-00	100.0 K .25 W 5.0 % CC	1	R70
92	92		9105740-55	WIRE(WRAP)30AWG UL1423	A/R	
93	93		1017472-00	10 MFD 35V +50-10% AL EL	4	C4,C6,C13,C14
94	94		1016549-00	47 MFD 10V +50-10% AL EL	1	C2

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							D.C. SERVO AND POWER SUPPLY		K	PL	5413534-0-DBP	D



		DESCRIPTION						DWG./PART NO.			ITEM NO.	
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES										
		ANGLES 10° 30'		CLASS OF ACCURACY		NOMINAL DIMENSION RANGE INCHES						
		SURFACE QUALITY IN		(CHECK ONE)		OVER TO	OVER 0.2 TO	OVER 1.2 TO	OVER 4.0 TO	OVER 12.0 TO	OVER 40.0 TO	OVER 80.0 TO
						±.004	±.008	±.012	±.016	±.024	±.04	
QUANTITY & VARIATION		☒ MICROINCHES		☐ PREFERRED		±.012	±.016	±.025	±.04	±.063	±.1	
THIRD ANGLE PROJECTION		DRN. <i>R. Huchard</i>		<i>E/S/2</i>		FIRST USED ON						
		CHK'D		<i>J. L. Leger</i>		TITLE DC SERVO AND POWER SUPPLY						
		ENG. <i>J. L. Leger</i>		<i>E/S/2</i>								
		PROJ. ENG. <i>J. L. Leger</i>		<i>E/S/2</i>								
REMOVE BURRS AND BREAK SHARP CORNERS		PROD. <i>J. L. Leger</i>		<i>E/S/2</i>								
DO NOT SCALE DWG		NEXT HIGHER ASSY.										
MATERIAL		D - UA-5413534-0-0				SIZE CODE		NUMBER		REV.		
FINISH		SCALE <i>1 = 1</i>				CS		5413534-0-1		D		
		SHEET <i>1</i> OF <i>2</i>				DIST.						

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REVISIONS			TITLE		SIZE CODE		NUMBER		REV.	
CHK	CHANGE NO.	REV.	DC SERVO AND POWER SUPPLY		D CS		5413534-0-1		D	
			SCALE		SHEET 2 OF 2		DIST.			

8

7

6

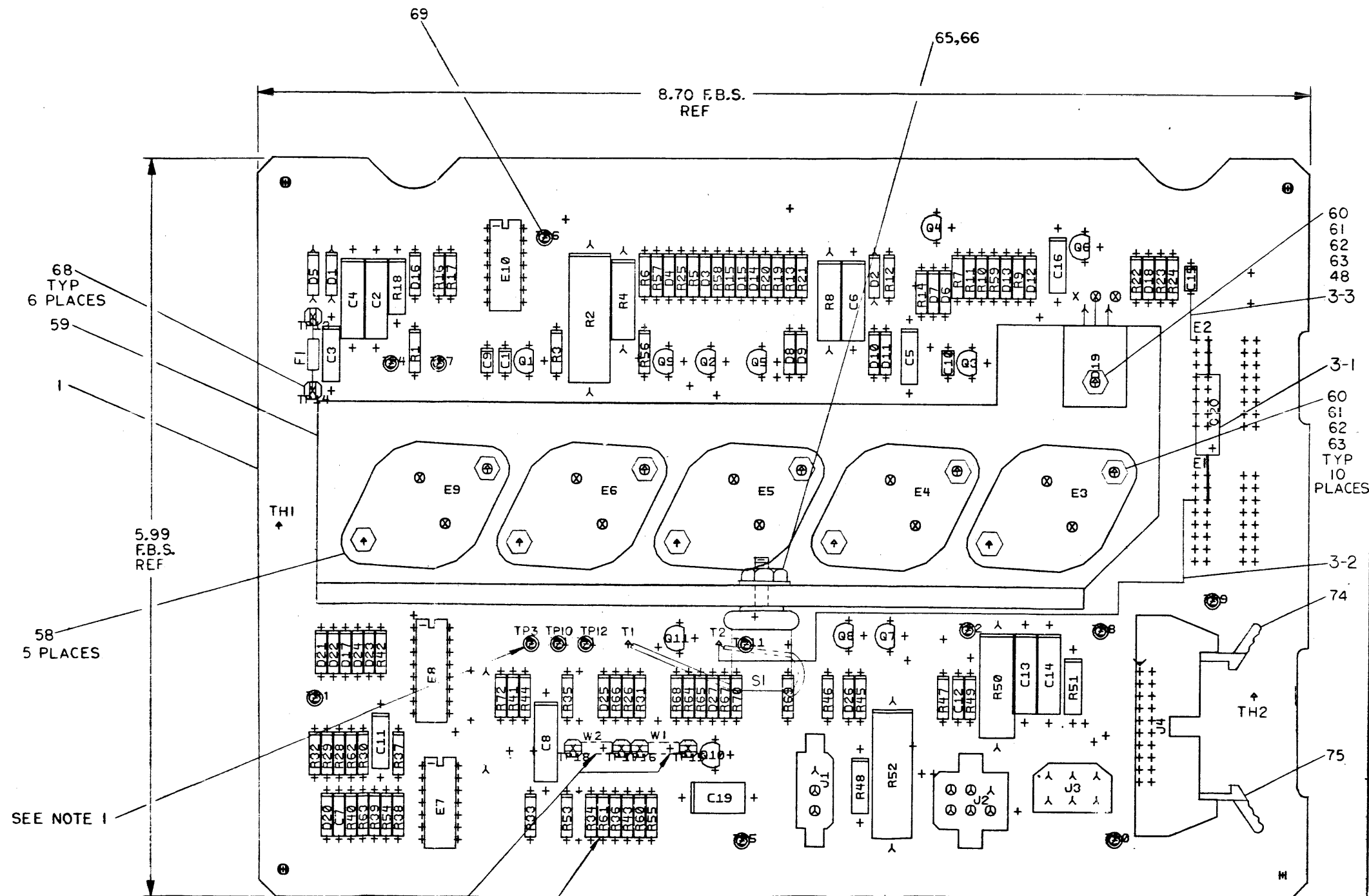
5

4

3

2

1



NOTES:

1. TP3, TP11, TP12 & TP15 THRU TP18 TO BE MOUNTED ON SIDE 2.
2. R60 AND R61 ARE TO BE INSTALLED AFTER FINAL TEST.
3. INSTALL W1 AND W2 FOR RL01. INSTALL W2 ONLY FOR RL22. W1 & W2 ARE LOCATED ON SIDE 2.
4. CS REV TO BE MARKED ON SIDE TWO (2).

CHK	CHANGE	NO	REV	B	C	D	E
5413534-0001	BOB NUGUCHI						
5413534-0002	M. J. J. J.						
5413534-0003	M. ZARICH						
5413534-0004	M. ZARICH						
5413534-0005	M. ZARICH						
5413534-0006	M. ZARICH						
5413534-0007	M. ZARICH						
5413534-0008	M. ZARICH						
5413534-0009	M. ZARICH						
5413534-0010	M. ZARICH						
5413534-0011	M. ZARICH						
5413534-0012	M. ZARICH						
5413534-0013	M. ZARICH						
5413534-0014	M. ZARICH						
5413534-0015	M. ZARICH						
5413534-0016	M. ZARICH						
5413534-0017	M. ZARICH						
5413534-0018	M. ZARICH						
5413534-0019	M. ZARICH						
5413534-0020	M. ZARICH						
5413534-0021	M. ZARICH						
5413534-0022	M. ZARICH						
5413534-0023	M. ZARICH						
5413534-0024	M. ZARICH						
5413534-0025	M. ZARICH						
5413534-0026	M. ZARICH						
5413534-0027	M. ZARICH						
5413534-0028	M. ZARICH						
5413534-0029	M. ZARICH						
5413534-0030	M. ZARICH						
5413534-0031	M. ZARICH						
5413534-0032	M. ZARICH						
5413534-0033	M. ZARICH						
5413534-0034	M. ZARICH						
5413534-0035	M. ZARICH						
5413534-0036	M. ZARICH						
5413534-0037	M. ZARICH						
5413534-0038	M. ZARICH						
5413534-0039	M. ZARICH						
5413534-0040	M. ZARICH						
5413534-0041	M. ZARICH						
5413534-0042	M. ZARICH						
5413534-0043	M. ZARICH						
5413534-0044	M. ZARICH						
5413534-0045	M. ZARICH						
5413534-0046	M. ZARICH						
5413534-0047	M. ZARICH						
5413534-0048	M. ZARICH						
5413534-0049	M. ZARICH						
5413534-0050	M. ZARICH						
5413534-0051	M. ZARICH						
5413534-0052	M. ZARICH						
5413534-0053	M. ZARICH						
5413534-0054	M. ZARICH						
5413534-0055	M. ZARICH						
5413534-0056	M. ZARICH						
5413534-0057	M. ZARICH						
5413534-0058	M. ZARICH						
5413534-0059	M. ZARICH						
5413534-0060	M. ZARICH						
5413534-0061	M. ZARICH						
5413534-0062	M. ZARICH						
5413534-0063	M. ZARICH						
5413534-0064	M. ZARICH						
5413534-0065	M. ZARICH						
5413534-0066	M. ZARICH						
5413534-0067	M. ZARICH						
5413534-0068	M. ZARICH						
5413534-0069	M. ZARICH						
5413534-0070	M. ZARICH						
5413534-0071	M. ZARICH						
5413534-0072	M. ZARICH						
5413534-0073	M. ZARICH						
5413534-0074	M. ZARICH						
5413534-0075	M. ZARICH						
5413534-0076	M. ZARICH						
5413534-0077	M. ZARICH						
5413534-0078	M. ZARICH						
5413534-0079	M. ZARICH						
5413534-0080	M. ZARICH						
5413534-0081	M. ZARICH						
5413534-0082	M. ZARICH						
5413534-0083	M. ZARICH						
5413534-0084	M. ZARICH						
5413534-0085	M. ZARICH						
5413534-0086	M. ZARICH						
5413534-0087	M. ZARICH						
5413534-0088	M. ZARICH						
5413534-0089	M. ZARICH						
5413534-0090	M. ZARICH						
5413534-0091	M. ZARICH						
5413534-0092	M. ZARICH						
5413534-0093	M. ZARICH						
5413534-0094	M. ZARICH						
5413534-0095	M. ZARICH						
5413534-0096	M. ZARICH						
5413534-0097	M. ZARICH						
5413534-0098	M. ZARICH						
5413534-0099	M. ZARICH						
5413534-0100	M. ZARICH						

ETCH REV. E	P.C. DESIGN DATA BASE REV. EL
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SIGNATURES	DATE	digital	TITLE DC SERVO & POWER SUPPLY	SIZE CODE	NUMBER	REV
DRN. <i>Paul R. Korduck</i>	6/13/78					
CHK'D. <i>Paul R. Korduck</i>	6/13/78					
ENG. <i>Paul R. Korduck</i>	6/13/78					
PROJ. ENG. <i>Paul R. Korduck</i>	6/13/78					
PROD. <i>Paul R. Korduck</i>	6/13/78					
SCALE 2/1						
SHT. 1 OF 2						
NEXT HIGHER ASSY. B-00-5413534-0						

8

6

5

4

3

2

1

D

C

E

B

A

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REWORK INSTRUCTIONS:

ECO 5413534-CX003

COMPONENT ADDS SIDE 1:

- 3-1 ADD POLARIZED SIDE OF C20 (1002781-00) AT E1-3 AND THE GND SIDE AT E2-1.

WIRE ADDS SIDE 1:

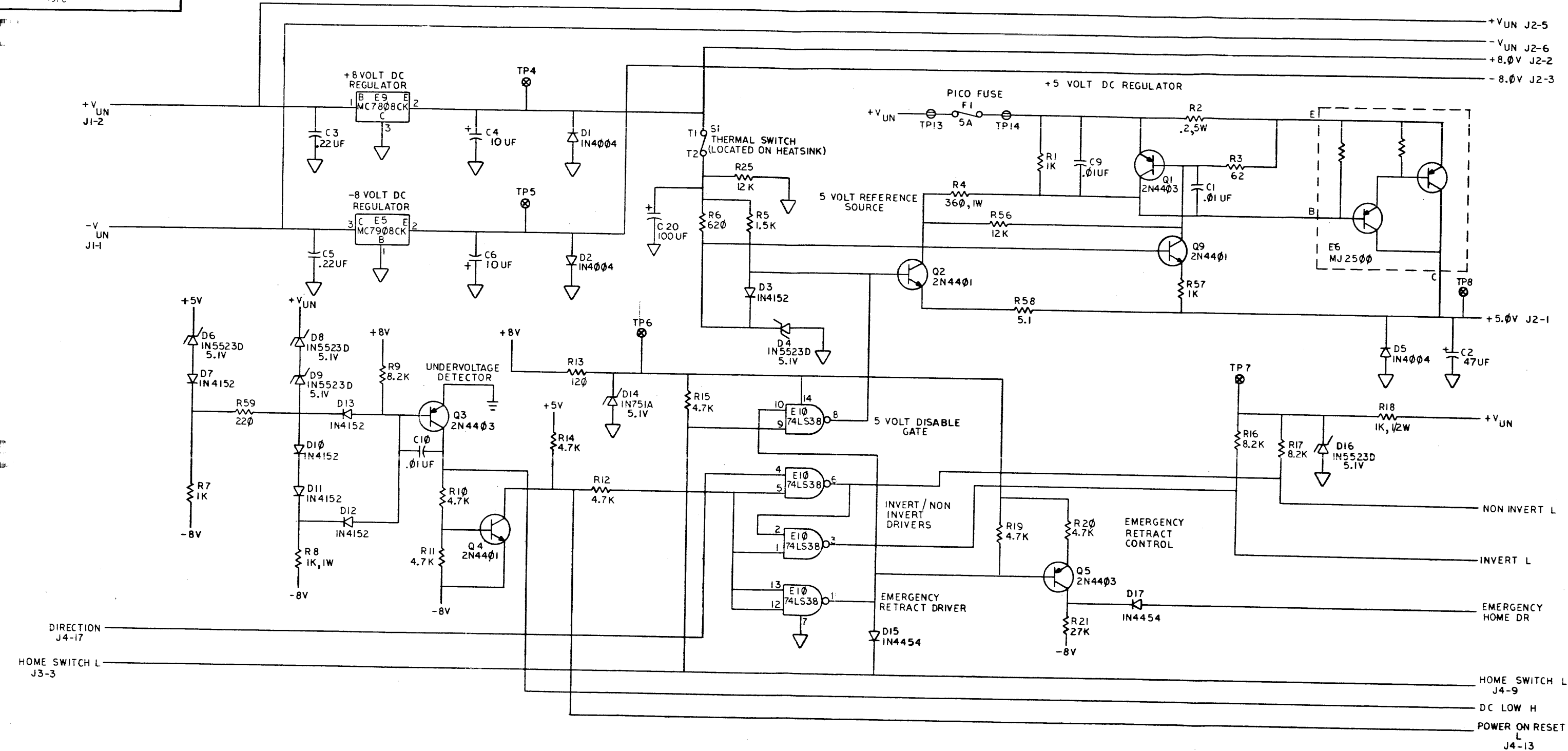
- 3-2 ADD WIRE FROM THE PTH NEXT TO E1-3 TO T2.
- 3-3 ADD WIRE FROM THE PTH NEXT TO E2-1 TO C15 GND (BOTTOM).

REVISION HISTORY		
DATE	ECO NUMBER	REV.

DOCUMENT NUMBER		
SIZE	CODE	NUMBER
D	UA	5413534-0-0
SCALE		SHEET 2 OF 2

TITLE
DC SERVO AND
POWER SUPPLY

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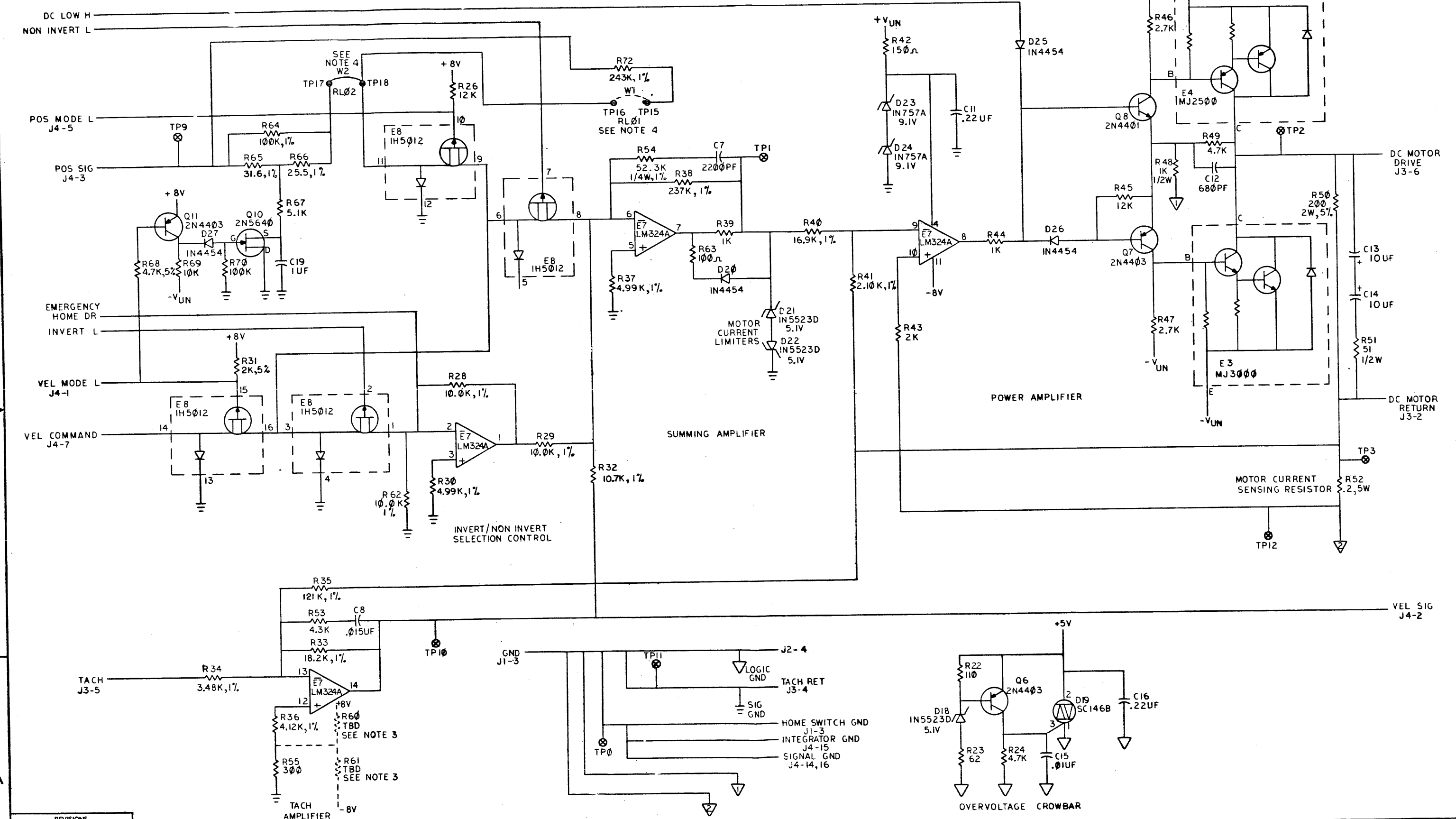
NOTES:

- ALL RESISTORS TO BE 1/4W, 5%; UNLESS OTHERWISE SPECIFIED.
- ~~E1 AND E2 ARE SPARES~~
- VALUE OF R60 OR R61 WILL BE DETERMINED IN TESTING.
- INSTALL W1 AND W2 FOR RL01 ON SIDE 2. INSTALL W2 ONLY FOR RL02 ON SIDE 2.

REV.	CHANGE NO.	BY	DATE
1	5413534-0-1	CZA	10/1/78
2	5413534-0-2	M. ZARICH	10/1/78
3	5413534-0-3	M. ZARICH	10/1/78
4	5413534-0-4	M. ZARICH	10/1/78
5	5413534-0-5	M. ZARICH	10/1/78
6	5413534-0-6	M. ZARICH	10/1/78
7	5413534-0-7	M. ZARICH	10/1/78
8	5413534-0-8	M. ZARICH	10/1/78
9	5413534-0-9	M. ZARICH	10/1/78
10	5413534-0-10	M. ZARICH	10/1/78

DESCRIPTION		DWG./PART NO.		ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES				
ANGLES	CLASS OF	NOMINAL DIMENSION RANGE INCHES		
±0° 30'	ACCURACY	OVER 0 TO 0.2	OVER 0.2 TO 1.2	OVER 1.2 TO 4.0
SURFACE	(CHECK ONE)	±0.004	±0.008	±0.012
QUALITY	IN	±0.012	±0.016	±0.024
QUANTITY & VARIATION	MICROINCHES	PREFERRED	±0.012	±0.016
THIRD ANGLE PROJECTION		FIRST USED ON		
REMOVE BURRS AND BREAK SHARP CORNERS		TITLE		
DO NOT SCALE DWG		DC SERVO AND POWER SUPPLY		
MATERIAL		SIZE CODE		
FINISH		NUMBER		
		SHEET 1 OF 2		
		REV. E		

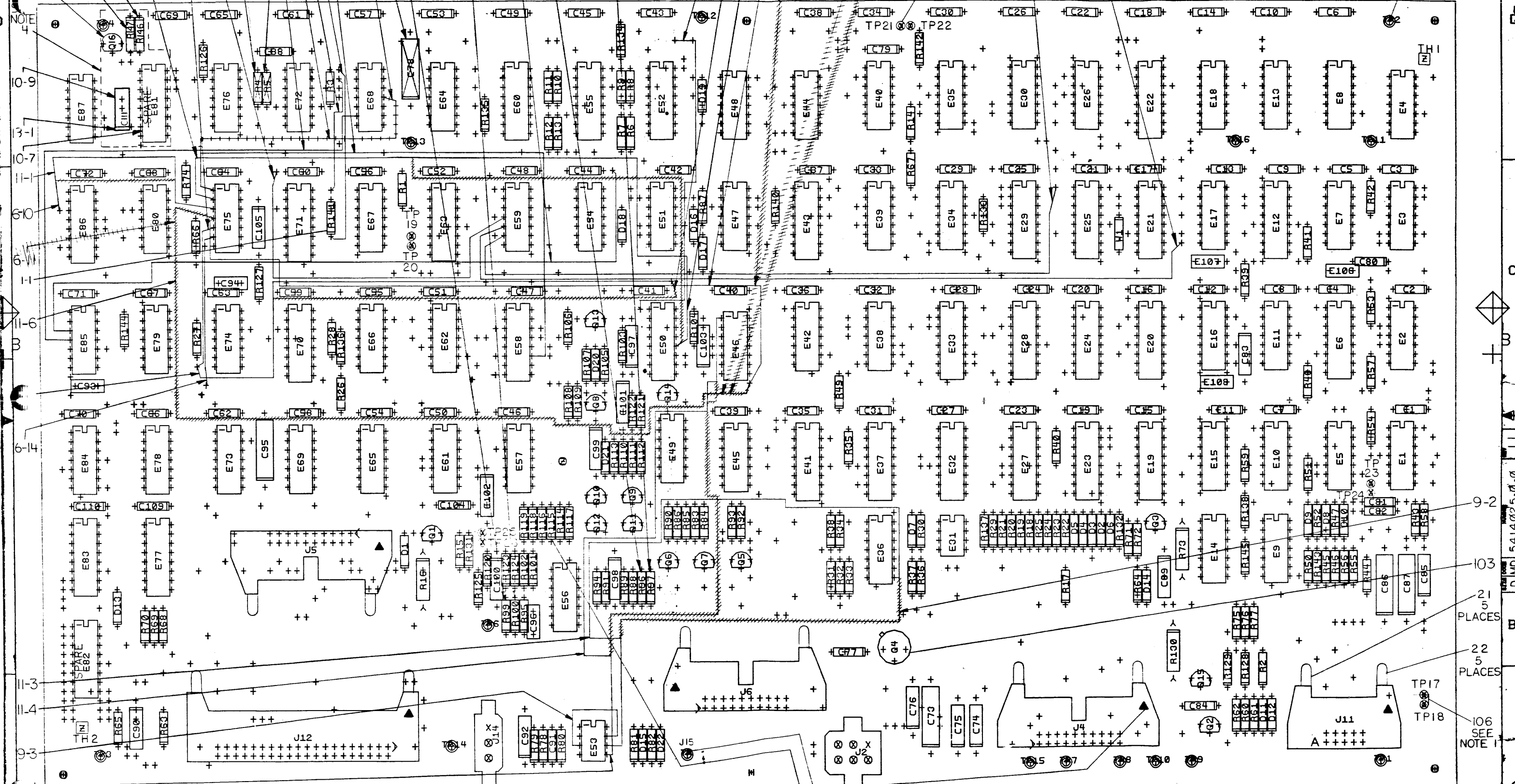
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REVISIONS			AMPLIFIER - 6V										SERVO MOTOR																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
CHK	CHANGE NO.	REV.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						

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NOTE 4



- NOTES:
1. INSTALL ITEM 106 AFTER TEST (BETWEEN TP17 & TP18 ONLY).
 2. VALUE OF ITEM 2 TO BE DETERMINED AT NEXT HIGHER ASSEMBLY.
 3. STAMP ORIENTATION TRIANGLES ON CONNECTORS AS SHOWN WITH APPLICABLE RED INK.

CHK	CHANGE	NO	REV
5414025-	CX001	B	
5414025-	CX003	C	
5414025-	CX005	D	
5414025-	CX006A	E	
5414025-	CX008	F	
5414025-	CX009	G	
5414025-	CX010A	H	
5414025-	CX011	I	
5414025-	CX012	J	
5414025-	CX013	K	
5414025-	CX014	L	
5414025-	CX015	M	

SEE NOTE 3
3-1
3-2
SEE NOTE 2

ETCH REV. B
P.C. DESIGN DATA BASE REV. BL

SIGNATURES		DATE
DRN. C. J.		4/27/79
CHK. D. J.		5/24/79
ENG. J. J.		5/24/79
PROJ. ENG. J. J.		
PROD. J. J.		
SCALE 2/1		
SHT. 1 OF 2		
NEXT HIGHER ASSY. B-DD-5414025-2		

TITLE		
DRIVE LOGIC		
SIZE CODE	NUMBER	REV
D UA	5414025-0-0	LI

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NOTES: CONT.

- 4 THESE COMPONENTS MAY OR MAY NOT APPEAR DEPENDING UPON THE ORIGINAL CS REV BEFORE INSTALLING ECO 5414025-CX014.

ECO#5414025-CX001

COMPONENT DELETE:

- 1-1 REMOVE R141

ECO#5414025-CX003

COMPONENT DELETE:

- 3-1 REMOVE TP5

COMPONENT ADD:

- 3-2 ADD J15, ITEM 109 AT PTH FOR TP5

ECO#5414025-CX005

COMPONENT DELETES:

- 5-1 R96,(365 K).
5-2 R97,(30.1 K).
5-3 R99,(365 K).
5-4 R100,(30.1 K).

COMPONENT ADDS:

- 5-5 R96,(3.65 K).
5-6 R97,(301).
5-7 R99,(3.65 K).
5-8 R100,(301).

ECO#5414025-CX006

ETCH CUTS:

- 6-1 }
6-2 } SEE D-EC-5014024-0-0
6-3 }
6-4 }

WIRE ADDS SIDE 1:

- 6-5 FROM E59-4 TO E71-2 (PTH TO THE LEFT OF C60).
6-6 FROM E59-5 TO E21-7 (PTH TO THE RIGHT OF E21-10).
6-7 FROM E59-6 TO E25-1 (PTH TO THE LEFT OF E25-1).
6-8 FROM E75-1 TO E68-11.
6-9 FROM E75-2 TO E50-12.
6-10 FROM E75-3 TO PTH TO THE LEFT OF E86-3.
6-11 FROM E75-4 TO PTH BELOW E46-8.
6-12 FROM E75-5 TO PTH BELOW R27.
6-13 FROM PTH BELOW R27 TO PTH TO THE UPPER RIGHT OF C41.
6-14 FROM E75-6 TO E73-1 (PTH ALONG ETCH ABOVE E73-1).

ECO#5414025-CX008

WIRE DELETE:

- 8-1 E68-11 TO E75-1.

WIRE ADD:

- 8-2 E75-1 TO E58-11.

ECO#5414025-CX009

WIRE ADDS:

- 9-1 E46 PIN 1 TO E53 PIN 5.
9-2 E36 PIN 8 TO E53 PIN 6.
9-3 E53 PIN 7 TO E53 PIN 3.

ECO#5414025-CX010A

COMPONENT DELETES:

- 10-2 REMOVE C78 (1000076-00)
10-3 REMOVE R5 (1300365-00)
10-4 REMOVE R4 (1300447-00)

COMPONENT ADDS:

- 10-5 ADD R146 (1302391-00)
10-6 ADD Q16 (1513489-00)
10-7 ADD E81 (1912837-00)
10-8 ADD R147 (1305608-00)
10-9 ADD C111 (1005334-00)

ECO#5414025-CX011

REROUTING INSTRUCTIONS:

- 11-1 REROUTE WIRE 6-10 (E75-3 TO PTH TO THE LEFT OF E86-3).
11-2 REROUTE WIRE 6-9 (E75-2 TO E50-12).
11-3 REROUTE WIRE 9-2 (E36-8 TO E53-6).
11-4 REROUTE WIRE 9-1 (E46-1 TO E53-5).
11-5 REROUTE WIRE 6-13 (FROM PTH BELOW R27 TO PTH TO THE UPPER RIGHT OF C41).

WIRE DELETES:

- 11-6 DELETE THE OPTIONAL ROUTING OF WIRE (6-11).

ECO#5414025-CX013

COMPONENT ADD:

- 13-1 REMOVE C111 (1005334-00)
ROTATE 180° AND REPLACE.

ECO#5414025-CX014

WIRE ADDS:

- 14-4 ADD WIRE FROM THE FEED THRU TO THE LEFT OF E68-1 TO THE FEED THRU TO THE LEFT OF E67-6.
14-5 ADD WIRE FROM THE FEED THRU TO THE LEFT OF E68-2 TO THE FEED THRU TO THE RIGHT OF E71-16.
14-6 ADD WIRE FROM THE FEED THRU DIRECTLY ABOVE E52-16 TO THE FEED THRU TO THE LEFT OF E50-1.
14-7 ADD WIRE FROM THE FEED THRU GOING TO E54-12 ABOVE E54 TO E85-3.
14-8 ADD WIRE FROM E85-4 TO E68-6.

REVISION HISTORY		
DATE	ECO NUMBER	REV

TITLE
DRIVE LOGIC

DOCUMENT NUMBER		
SIZE	CODE	NUMBER
D	UA	5414025-0-0
SCALE		REV.
NONE		LI
SHEET		OF
2		2

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
00					
1	1	D-MD-5014024-0-0	5014024-00	DRILL AND ETCH BRD	
2	2	EWS		RESISTOR,FINAL TEST, 1/4W, 1%	
3	3		1000023-00	330.0 MMF 100V 5%200PPM MICA	R115,R116,R118,R119
4	4		1000024-00	470.0 MMF 100V 5%200PPM MICA	C93,C106-C108
5	5		1000064-00	3.9MFD 10V 10% S.TANT	C94
6	6		1000076-00	39 MFD 10V 10% S.TANT	C76,C85
7	7		1001610-00	.01 MFD 50V +30-20% 25U CER	C73,C86,C95
					C1-C6,C8-C39,C40-C45,C47-C49,
					C51-C53,C55-C68,C70,C71,C77,
					C79-C82,C84,C88,C104
					C74,C75,C92,C97
8	8		1001776-00	1 MFD 35V 10% S.TANT	C87
9	9		1004812-00	15 MFD 20V 10% S.TANT	C101
10	10		1005784-00	.01 MFD 100V 10% MYLR	C96
11	11		1010978-32	.047 MFD 50V 10% CER	C91
12	12		1013466-07	220.0 MMF 50V 5% CER	C89,C90
13	13		1013466-08	680.0 MMF 50V 10% X7R CER	C83
14	14		1013466-09	1000.0 MMF 50V 10% X7R CER	C98,C100,C103,C105
15	15		1013466-10	3300.0 MMF 50V 5% CER	C99,C102
16	16		1013466-11	.22 MFD 50V +80-20% Z5U CER	D1,D7-D20,D22
17	17		1111577-00	1N 4454 TR= 4NS PIV= 50 S	D21
18	18		1113953-00	1N 5523D VZ= 5.1 1%	D2-D6
19	19		1114117-00	1N 4152 PIV=40 I=75	J12
20	20		1209941-02	HEADER 100 40POS RT ANGLE	
21	21		1209941-03	HEADER RT ANGLE LEFT L	
22	22		1209941-04	HEADER RT ANGLE,RIGHT	
23	23		1209941-05	HEADER,100 10POS RT ANGLE	J11
24	24		1209941-06	HEADER,100 20POS RT ANGLE	J4-J6
25	25		1210385-01	PIN 1POS WIRE WRAP	TP17-TP26
26	26		1213922-02	HEADER 3POS	J14
27	27		1213922-04	HEADER 6POS	J2
28	28		1300229-00	100.0 .25 W 5.0 % CC	R48,R133-R136

REVISION HISTORY			BASIC PART NO: 5414025			DRN: ART SIMM			DATE: 18-APR-79			D I G I T A L			
ENG	ECO NUMBER	REV	SECTION A OF A			CHK'D:	P. KENDRICK	DATE: 18-APR-79	TITLE PARTS LIST						
---	INITIAL	A	SECTION,VARIATION INDEX			MB	5414025-CX001	B	[A] 00	MB	5414025-CX002	C	[B]	DRIVE LOGIC	
MB	5414025-CX002	C													
MB	5414025-CX003	D													
MB	5414025-CX005	E				DES.ENG:	MIKE BROWN	DATE: 18-APR-79							
MB	5414025-CX010A	F							DOCUMENT NUMBER						
MB	5414025-CX014	H				RESP.ENG.:	MIKE BROWN	DATE: 18-APR-79							
									SIZE	CODE	NUMBER	REV			
						MFG.ENG.:	D. LICK	DATE: 18-APR-79	K	PL	5414025-0-DBP	H			
						ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:	FILE NAME:			EDIT #			
						D-UA-5414025-0-0		#RL02	Z0496H.PLS			31			
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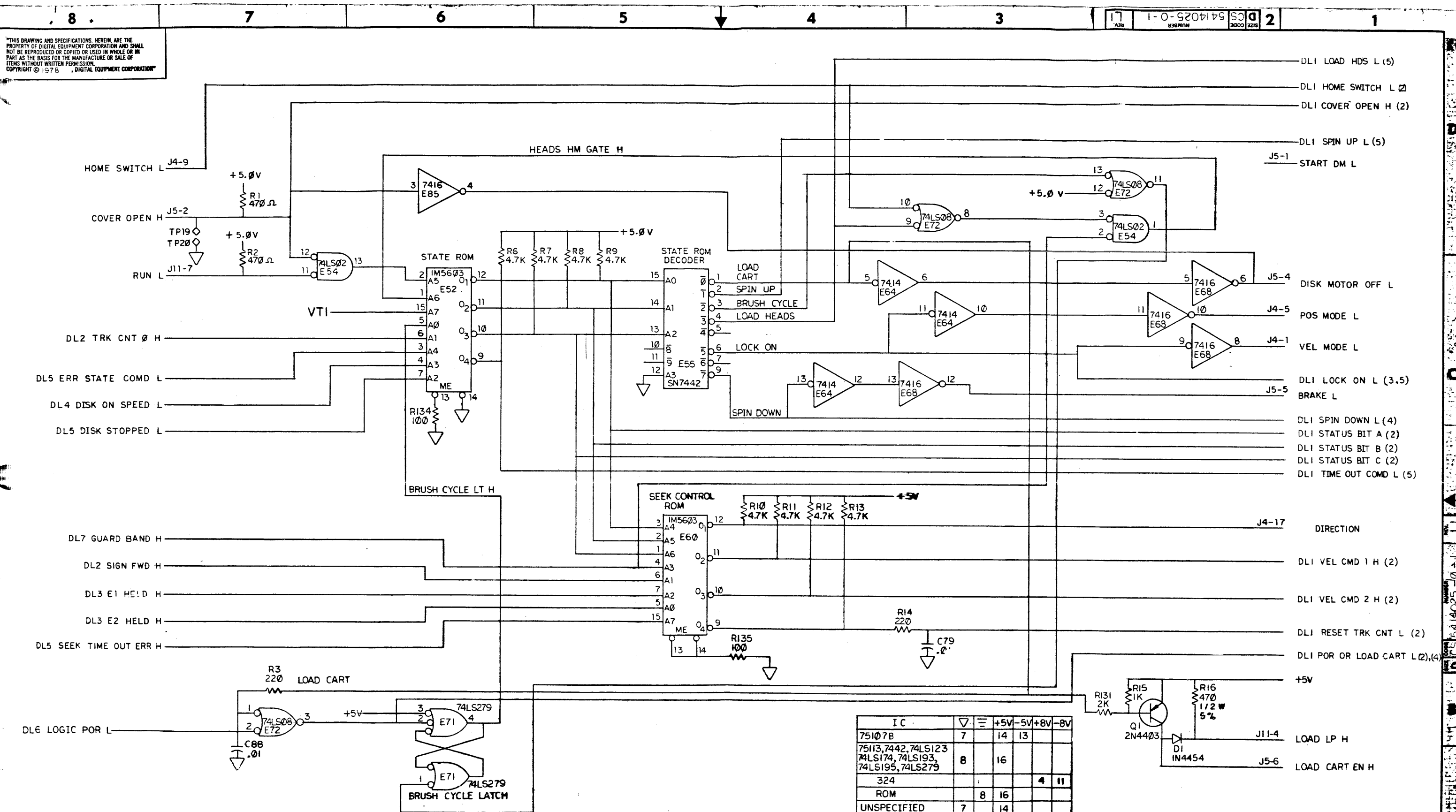
LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
00					
29	29		1300271-00	220.0 .25 W 5.0 % CC	R3,R14,R41,R143
30	30		1300315-00	470.0 .50 W 5.0 % CC	R16,R73,R130
31	31		1300316-00	470.0 .25 W 5.0 % CC	R1,R2,R79,R142
32	32		1300365-00	1.0 K .25 W 5.0 % CC	R15,R39,R40,R42,R47,R52,R54,R56,
					R61,R72,R74,R101,R106,R129,R140
33	33		1300411-00	2.0 K .25 W 1.0 % RN55D-F10	R144
34	34		1300439-00	3.30 K .25 W 5.0 % CC	R93,R124,R126
35	35		1300447-00	4.70 K .25 W 5.0 % CC	R6-R13,R26-R28,R34,R35,R38,R43,
					R44,R49,R53,R57,R58,R62,R75-R78,
					R80,R82,R92,R102,R105,R123,R125,
					R127,R138,R145
					R70,R107
					R18-R21,R45,R50,R66,R67,R71,R87,
					R122,R128,R131
36	36		1300479-00	10.0 K .25 W 5.0 % CC	R59
37	37		1302388-00	2.0 K .25 W 5.0 % CC	R95
					R55
					R121
					R91,R120
					R94
					R88
					R25
					R64,R65,R83,R85,R113
					R89,R117
					R17,R29-R31,R36,R60,R63
					R108
					R81
					R110
					R33
					R84,R86
					R24
					R96,R99
					R23
					R46,R51,R132
					R109
					R97,R100
					R111,R112
					R68,R69,R137
					R22,R103,R104
					R90
					R32
					R37
					R114
					Q7,Q10,Q12
					Q1-Q3,Q5,Q6,Q8,Q9,Q11,Q13,Q15
					Q14
					E9,E10,E68,E85
					E55

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							DRIVE LOGIC		K	PL	5414025-0-DBP	H

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
72	72	1910268-00	DEC 75107B RECEIVER,LINE,DUAL,	4	E57,E61,E65,E87
73	73	1910298-00	741 OP AMP GEN PURP. COM	1	E31
74	74	1910363-00	7496 SHIFT REG.,5BIT	1	E63
75	75	1910536-00	74S10 NAND GATE-TRIPLE 3IN	1	E45
76	76	1910655-00	74157 MUX 2 TO 1 QUAD	2	E23,E24
77	77	1911341-00	75113 DRIVER,LINE,DUAL,MA	3	E77,E83,E86
78	78	1912107-01	324ANDP AMP,QUAD	1	E49
79	79	1912108-00	339 VOLT CHPRTR,QUAD	3	E5,E36,E56
80	80	1912541-00	79M05 VOLT REG,FIX -5V	1	Q4
81	81	1912697-00	LS174 FF-D HEX W/CLEAR	2	E37,E41
82	82	1912799-00	LS00 NAND-GATE-QUAD 2IN,P	4	E7,E15,E44,E67
83	83	1912801-00	LS02 NOR-GATE-QUAD 2IN	4	E1,E30,E39,E54
84	84	1912803-00	6S04 INVERTER GATE,HEL	2	E79,E80
85	85	1912805-00	LS08 AND GATE-QUAD 2IN,PO	6	E14,E34,E38,E69,E72,E76
86	86	1912807-00	LS10 NAND GATE-TRIPLE 3IN	1	E18
87	87	1912810-00	LS20 NAND GATE-DUAL 4IN	1	E2
88	88	1912813-00	LS27 NOR GATE-TRIPLE 3IN	1	E73
89	89	1912816-00	LS32 OR GATE-QUAD 2IN,POS	4	E17,E35,E59,E84
90	90	1912824-00	LS74 FF-D DUAL,EDGE TRIGG	9	E3,E11,E16,E26,E42,E46,E47,E62,
				CONT	E75
91	91	1912829-00	LS86 X-OR GATE-QUAD 2IN	3	E51,E66,E78
92	92	1912837-00	LS123 ONE SHOT-DUAL,RETRIG	1	E50
93	93	1912854-00	LS193 COUNTER,SYNCHR,4BIT,	3	E27,E28,E43
94	94	1912855-00	LS195 SHIFT REG.,4BIT PARA	5	E19-E22,E25
95	95	1912857-00	LS197 COUNTER,BINARY,PRESET	4	E4,E8,E13,E74
96	96	1912864-00	LS279 LATCH,QUAD-S-R	6	E6,E12,E29,E33,E58,E71
97	97	1913414-00	LS14 INVERTER GATE-HEX SC	2	E40,E48
98	98	1914156-00	LM 393 VOLT.COMPARATOR DUAL	1	E53
99	99	23368A2-00	A2-02,A2-04	1	E52
100	100	23371A2-00	A2-02,A2-04	1	E60
101	101	23444A2-00	A2-02,A2-04	1	E70
102	102	23445A2-00	A2-02,A2-04	1	E32
103	103	9007201-00	TRANSIPADS #10253	1	
104	104	9007791-00	TERM PCB 2POS SOLDER,TURRET	15	TP1-TP4,TP6-TP16
105	105	9009185-00	JUMPER, WIRE, INSULATED, BLACK R	1	W1
106	106	9105740-55	WIRE(WRAP)30AWG UL1423	A/R	
107	107	1012784-00	.047 MFD 50V +80-20% CER	8	C7,C46,C50,C54,C69,C72,C109,C110
108	108	1911324-00	7414 INVERTER,HEX 1IN SCH	1	E64
109	109	1217377-00	TERM QUICK 1POS TAB PC MNT	1	J15
110	110	1005334-00	*** THIS ITEM IS NOT USED ***	-	
111	111	1305608-00	*** THIS ITEM IS NOT USED ***	-	

! D ! I ! G ! I ! T ! A ! L !	! T I T L E !	! S E C T I O N !	! S I Z E !	! C O D E !	! D O C U M E N T N U M B E R !	! R E V !
	DRIVE LOGIC	A	K	PL	5414025-O-DBP	H

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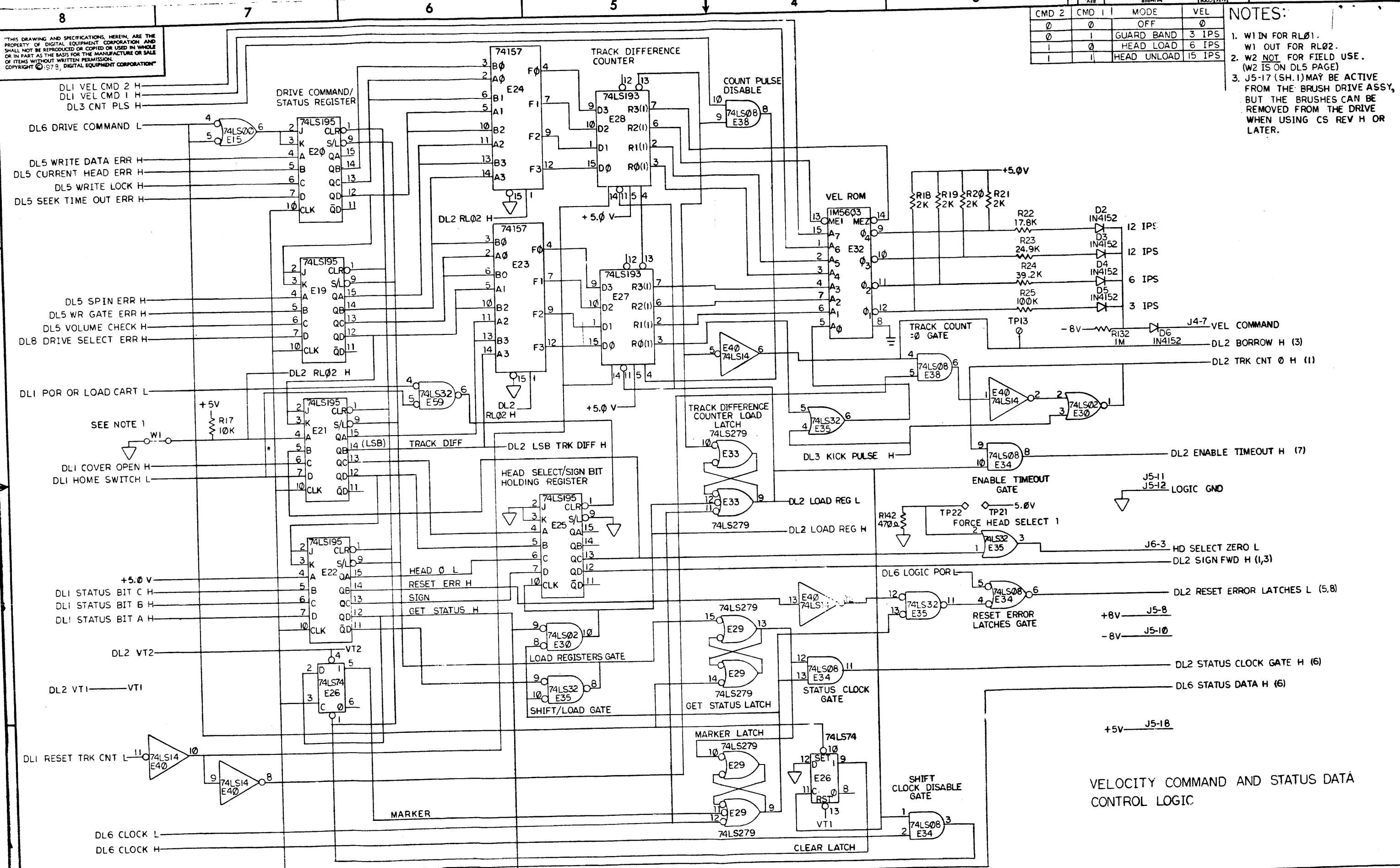


IC	7	8	16	3	12
75107B	7	8	16	3	12
75113, 7442, 74LS123	7	8	16	3	12
74LS174, 74LS193, 74LS195, 74LS279	7	8	16	3	12
324	7	8	16	3	12
ROM	7	8	16	3	12
UNSPECIFIED	7	8	16	3	12
339	7	8	16	3	12
339	7	8	16	3	12
339	7	8	16	3	12

REV	DATE	BY	CHK	DESCRIPTION
1	10/1/78	M. BROWN		5414025-CX001
2	10/1/78	M. BROWN		5414025-CX002
3	10/1/78	M. BROWN		5414025-CX003
4	10/1/78	M. BROWN		5414025-CX004
5	10/1/78	M. BROWN		5414025-CX005
6	10/1/78	M. BROWN		5414025-CX006
7	10/1/78	M. BROWN		5414025-CX007
8	10/1/78	M. BROWN		5414025-CX008
9	10/1/78	M. BROWN		5414025-CX009
10	10/1/78	M. BROWN		5414025-CX010
11	10/1/78	M. BROWN		5414025-CX011
12	10/1/78	M. BROWN		5414025-CX012
13	10/1/78	M. BROWN		5414025-CX013
14	10/1/78	M. BROWN		5414025-CX014
15	10/1/78	M. BROWN		5414025-CX015
16	10/1/78	M. BROWN		5414025-CX016
17	10/1/78	M. BROWN		5414025-CX017
18	10/1/78	M. BROWN		5414025-CX018
19	10/1/78	M. BROWN		5414025-CX019
20	10/1/78	M. BROWN		5414025-CX020

DRN. 7/1/78	5/1/78	FIRST USED ON	
CHK'D 10/1/78	3/1/78	TITLE	DRIVE LOGIC (STATE CONTROL LOGIC) (DL)
ENG. 10/1/78	5/1/78	SIZE	D
PROJ. ENG. 10/1/78	5/1/78	CODE	CS
PROD.		NUMBER	5414025-0-1
NEXT HIGHER ASSY.		REV.	L1
B-00-5414025-0		SHEET	1 OF 8
SCALE		DIST.	

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CMD 2	CMD 1	MODE	VEL
0	0	OFF	0
0	1	GUARD BAND	3 IPS
1	0	HEAD LOAD	6 IPS
1	1	HEAD UNLOAD	15 IPS

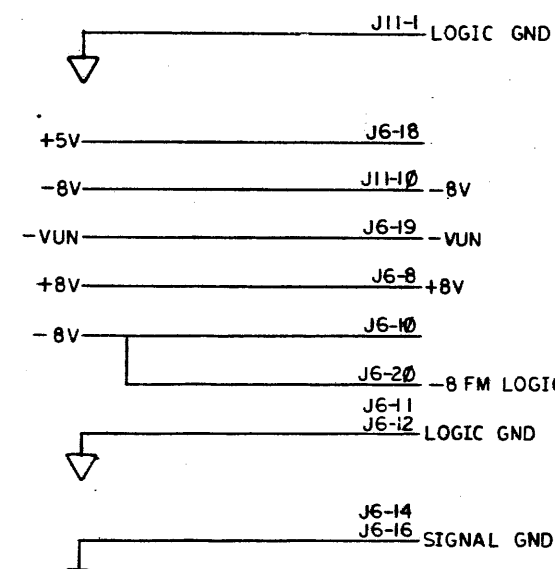
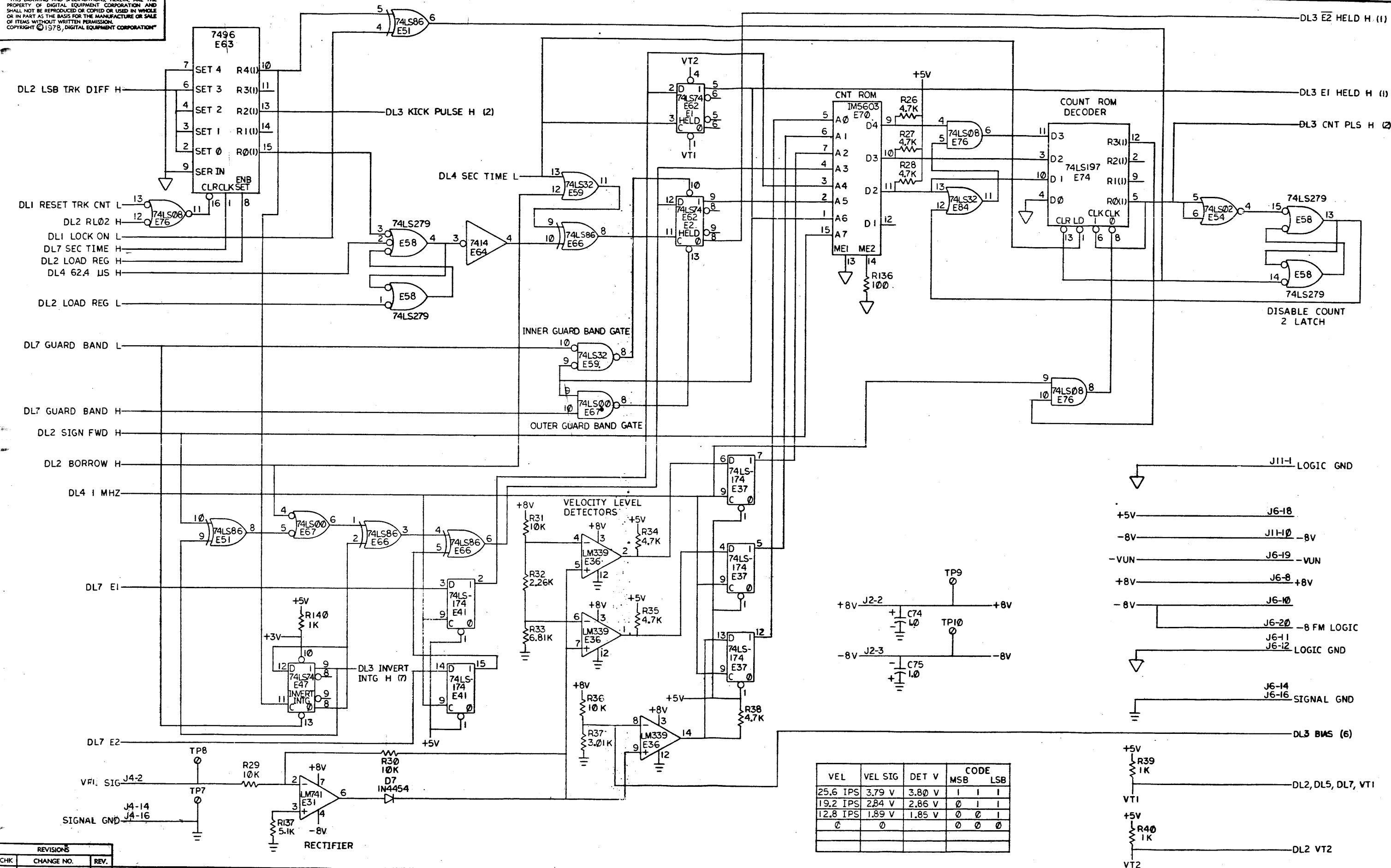
NOTES:

1. W1 IN FOR RLØ1.
W1 OUT FOR RLØ2.
2. W2 NOT FOR FIELD USE.
(W2 IS ON DL5 PAGE)
3. J5-17 (SH.1) MAY BE ACTIVE
FROM THE BRUSH DRIVE ASSY,
BUT THE BRUSHES CAN BE
REMOVED FROM THE DRIVE
WHEN USING CS REV H OR
LATER

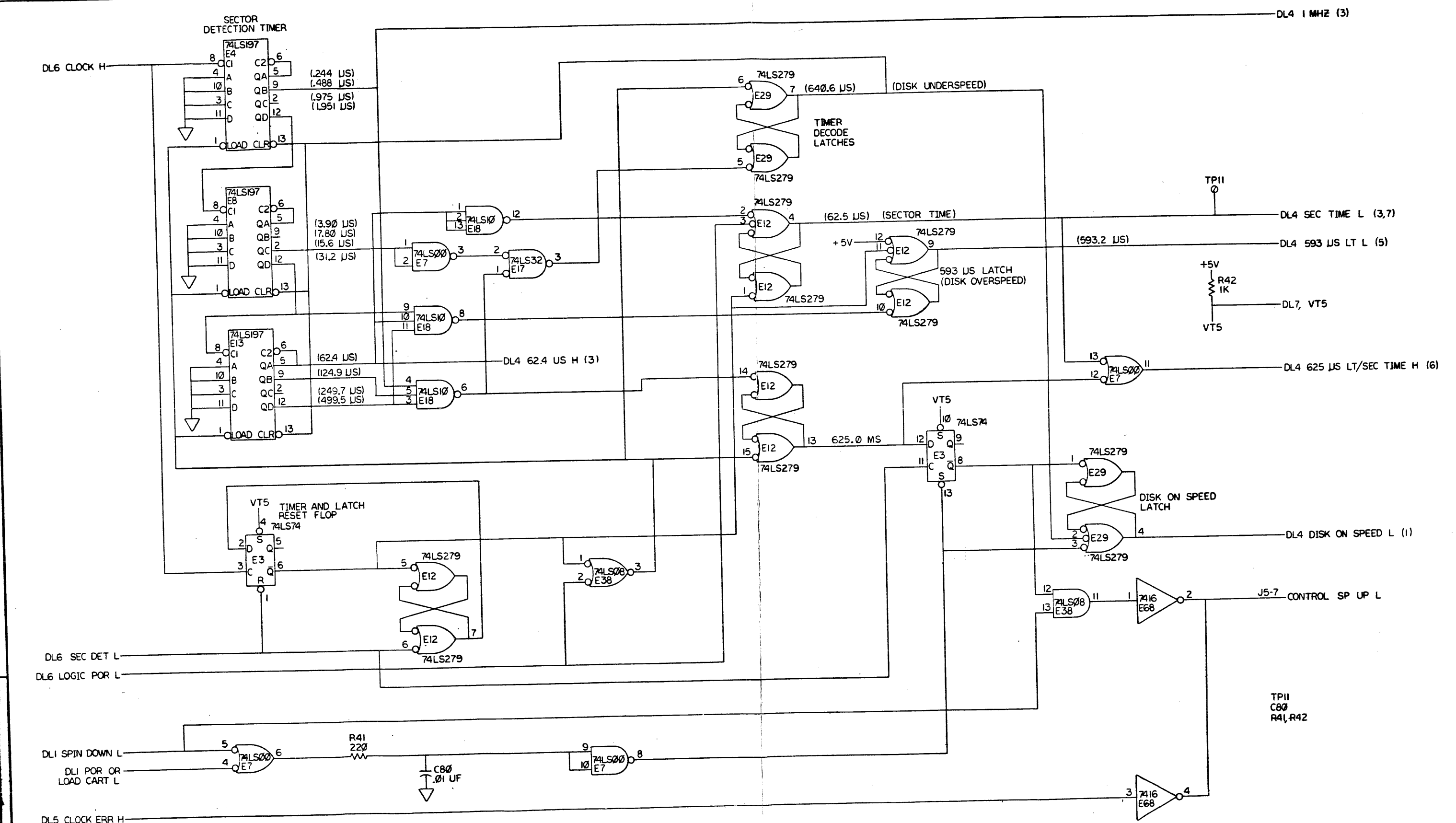
REVISIONS		
CHK	CHANGE NO.	REY

TITLE		SIZE	CODE	NUMBER		REVISION
DRIVE LOGIC (DL2)		D	CS	5414025 - 0 - 1		1
SCALE	++	SHEET	2	OF	8	
		DIST.				

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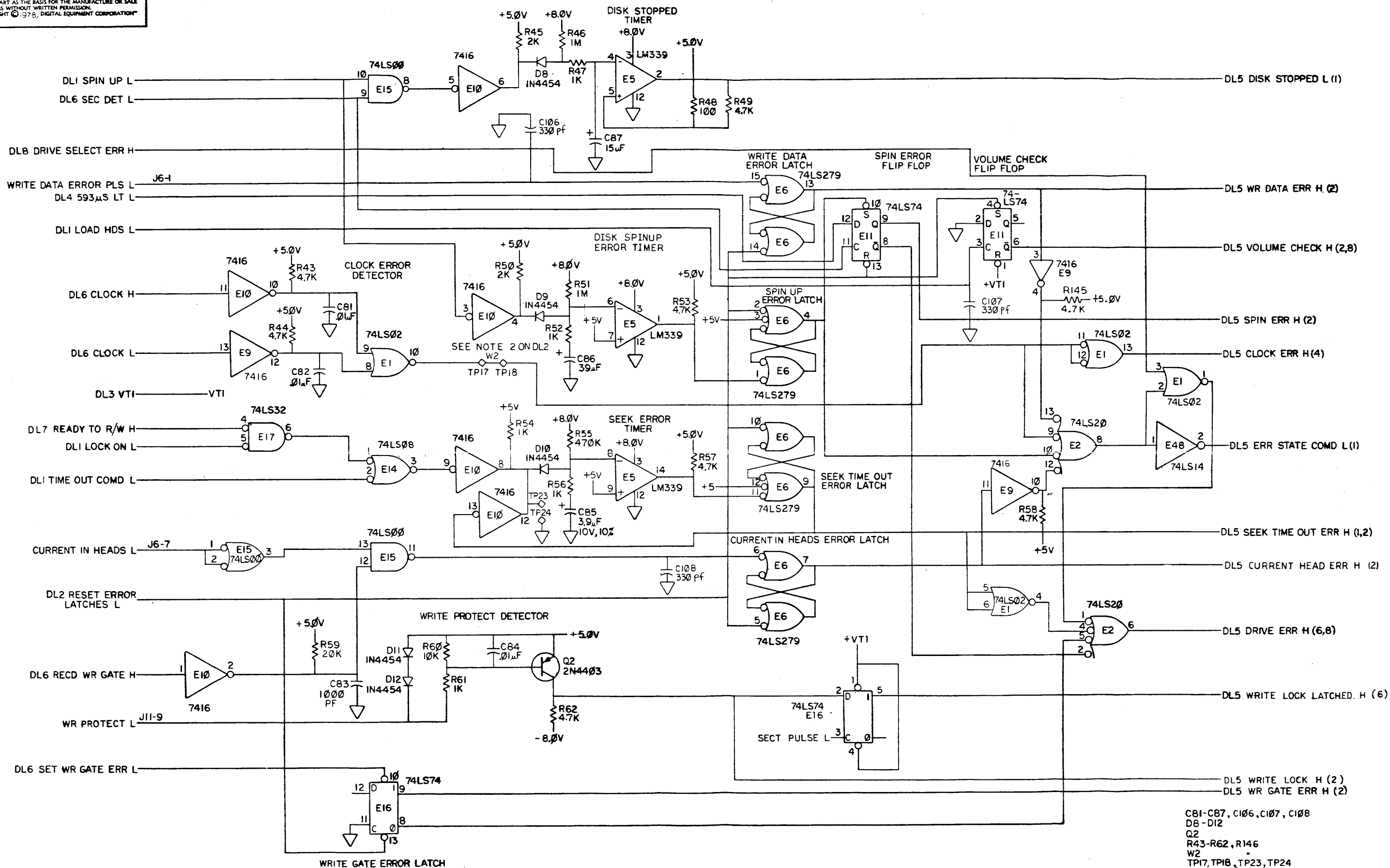


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REVISIONS			TITLE DRIVE LOGIC (DISK SPEED CONTROL) (DL4)										SIZE CODE	NUMBER	REV.
CHK	CHANGE NO.	REV.	D CS 5414025-0-1										DIST.		L1
			SCALE 4 OF 8												

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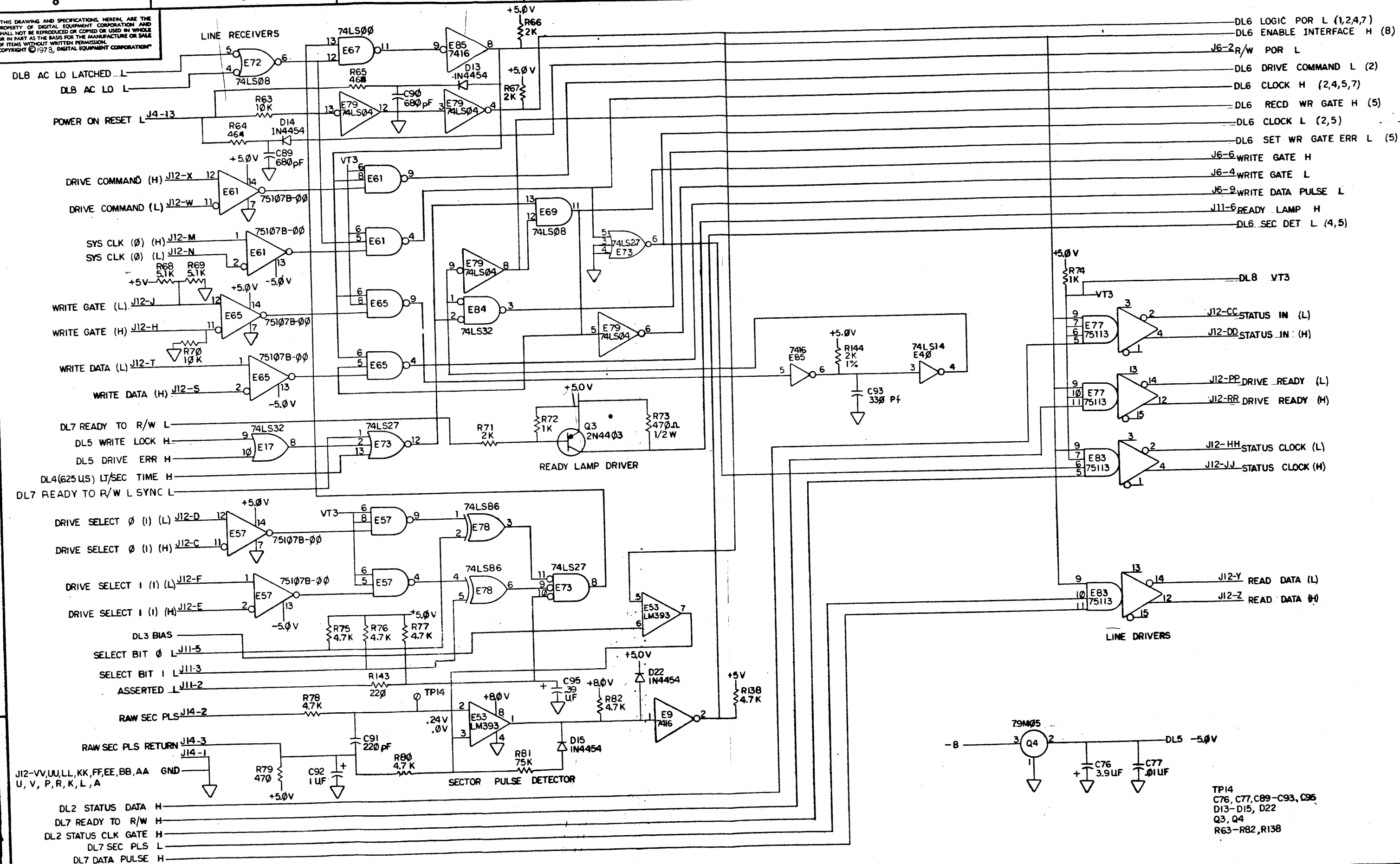


C81-C87, C106, C107, C108
D8-D12
Q2
R43-R62, R146
W2
TP17, TP18, TP23, TP24

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		DRIVE LOGIC (ERROR LOGIC) (DL5)	SIZE	CODE	NUMBER	REV.
SCALE					D CS 5414025-0-1	L1
SHEET		5	OF		8	
DIST.						

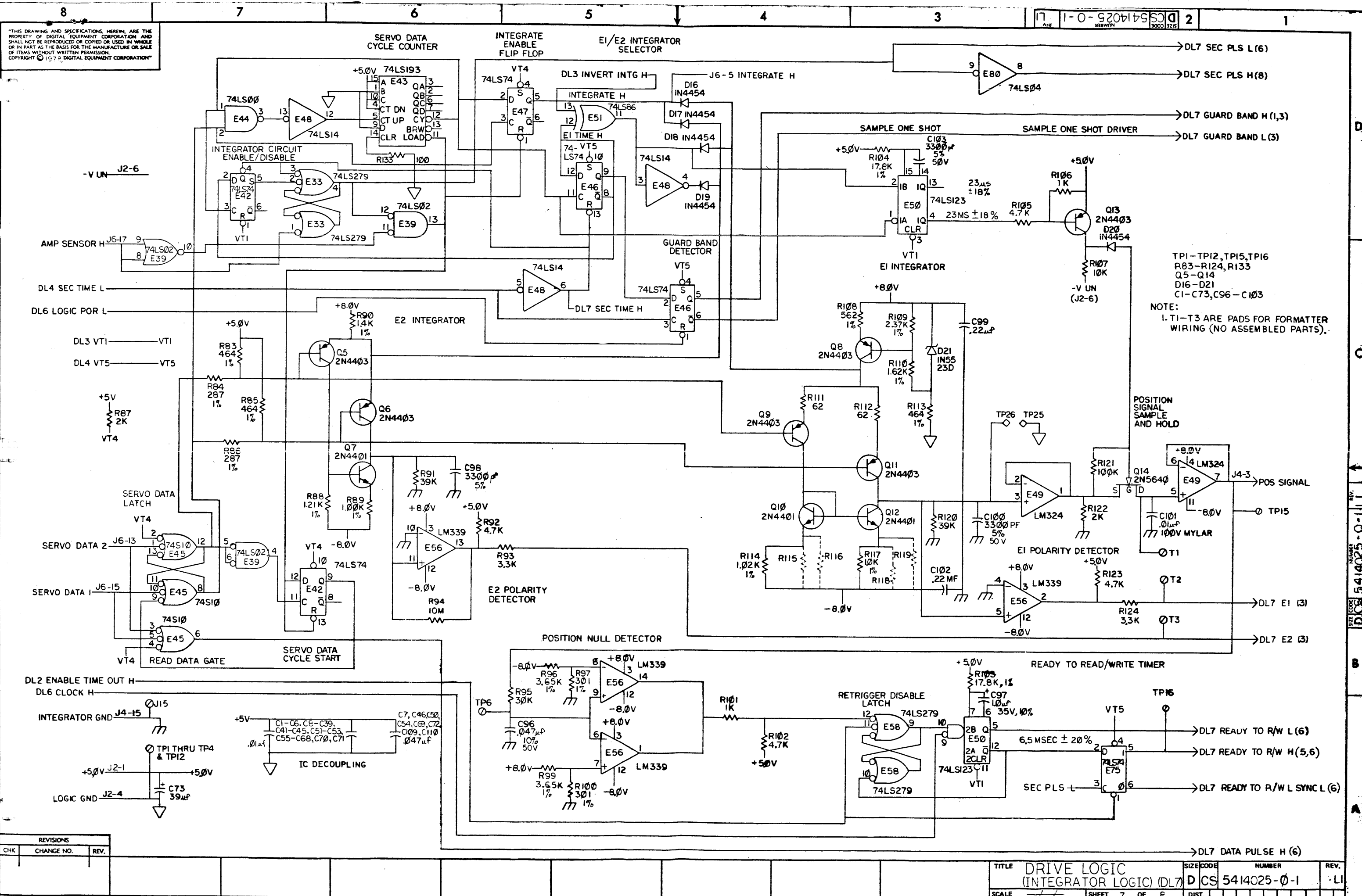
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TP14
C76, C77, C89-C93, C96
D13-D15, D22
Q3, Q4
R63-R82, R138

REVISIONS			TITLE			SHEET			NUMBER			REV.		
CHK	CHANGE NO.	REV.	DRIVE LOGIC (INTERFACE LOGIC) (DL6)			6 OF 8			DCS5414025-0-1			(L1)		

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TPI-TPI2, TPI5, TPI6
R83-R124, R133
Q5-Q14
D16-D21
C1-C73, C96-C103
NOTE:
1. T1-T3 ARE PADS FOR FORMATTER
WIRING (NO ASSEMBLED PARTS).

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		DRIVE LOGIC (INTEGRATOR LOGIC) (DL7)
SCALE	SHEET 7 OF 8	DIST.
NUMBER		CS 5414025-0-1
REV.		LI

