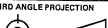


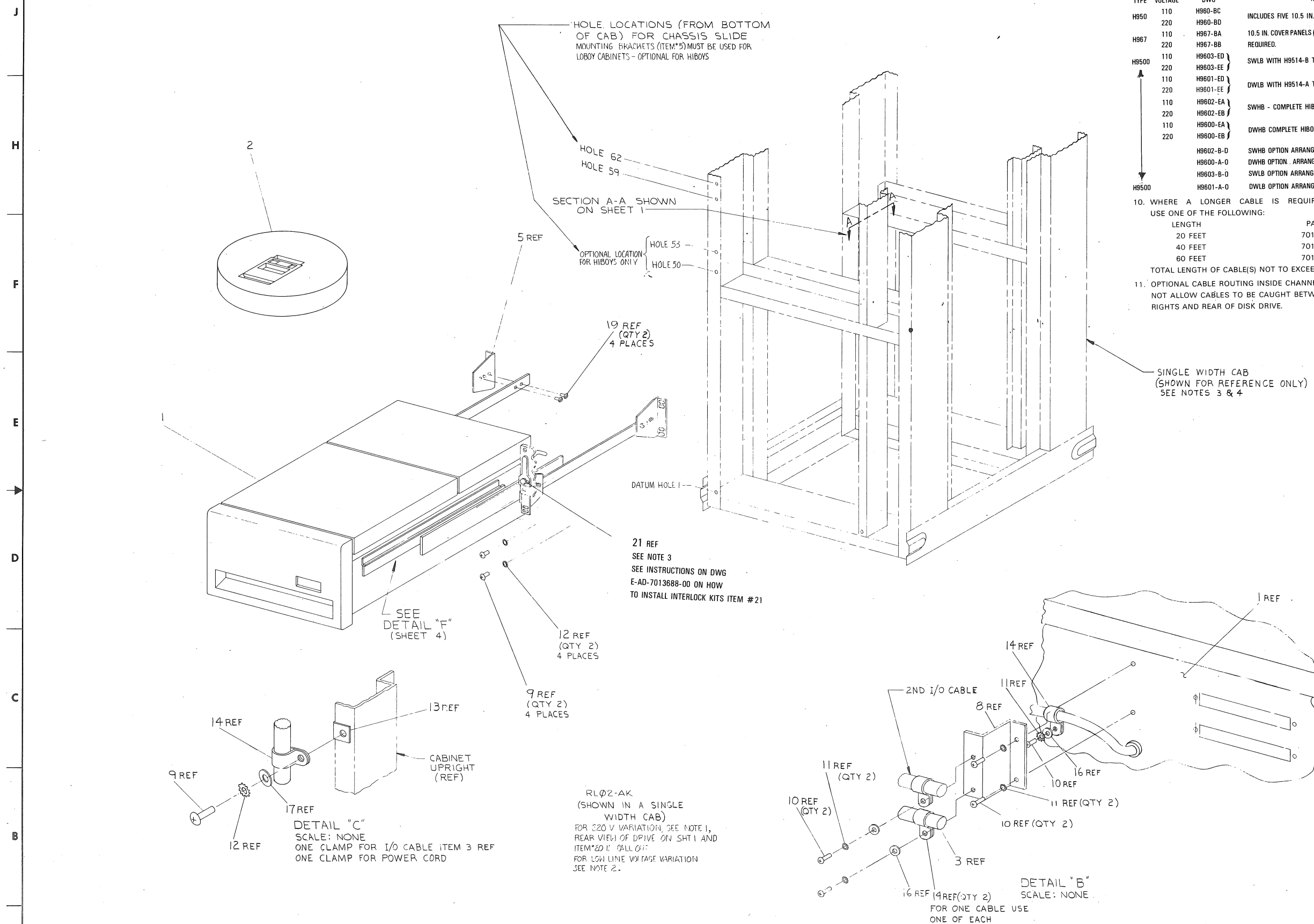
QUANTITY & VARIATION		DESCRIPTION	DWG. PART NO.		ITEM NO.	
THIRD ANGLE PROJECTION 		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES				
		ANGLES 10° 30° CLASS OF ACCURACY SURFACE QUALITY IN (CHECK ONE)				
		MICROINCHES PREFERRED				
		MEDIUM				
		OVER 1.0004 .75 TO 1.0 .5 TO .75 .25 TO .5 .125 TO .25 .0625 TO .125 .03125 TO .0625 .015625 TO .03125 .0078125 TO .015625 .00390625 TO .0078125 .001953125 TO .00390625 .0009765625 TO .001953125 .00048828125 TO .0009765625 .000244140625 TO .00048828125 .0001220703125 TO .000244140625 .00006103515625 TO .0001220703125 .000030517578125 TO .00006103515625 .0000152587890625 TO .000030517578125 .00000762939453125 TO .0000152587890625 .000003814697265625 TO .00000762939453125 .0000019073486328125 TO .000003814697265625 .00000095367431640625 TO .0000019073486328125 .000000476837158203125 TO .00000095367431640625 .0000002384185791015625 TO .000000476837158203125 .00000011920928955078125 TO .0000002384185791015625 .000000059604644775390625 TO .00000011920928955078125 .0000000298023223876953125 TO .000000059604644775390625 .00000001490116119384765625 TO .0000000298023223876953125 .000000007450580596923828125 TO .00000001490116119384765625 .0000000037252902984619140625 TO .000000007450580596923828125 .00000000186264514923095703125 TO .0000000037252902984619140625 .000000000931322574615478515625 TO .00000000186264514923095703125 .0000000004656612873077392578125 TO .000000000931322574615478515625 .00000000023283064365386962890625 TO .0000000004656612873077392578125 .000000000116415321826934814453125 TO .00000000023283064365386962890625 .000000000058207660913467407171875 TO .000000000116415321826934814453125 .0000000000291038304567337035859375 TO .000000000058207660913467407171875 .00000000001455191522836685179296875 TO .0000000000291038304567337035859375 .000000000007275957614183425896484375 TO .00000000001455191522836685179296875 .0000000000036379788070917129482421875 TO .000000000007275957614183425896484375 .00000000000181898940354585647412109375 TO .0000000000036379788070917129482421875 .000000000000909494701772928237060546875 TO .00000000000181898940354585647412109375 .0000000000004547473508864641185302734375 TO .000000000000909494701772928237060546875 .00000000000022737367544323205926513671875 TO .0000000000004547473508864641185302734375 .000000000000113686837721616029632568359375 TO .00000000000022737367544323205926513671875 .0000000000000568434188608080148162841796875 TO .000000000000113686837721616029632568359375 .00000000000002842170943040400740814208984375 TO .0000000000000568434188608080148162841796875 .0000000000000142108547152020037040710444921875 TO .00000000000002842170943040400740814208984375 .00000000000000710542735760100185203552224609375 TO .0000000000000142108547152020037040710444921875 .000000000000003552713678800500926017761123046875 TO .00000000000000710542735760100185203552224609375 .0000000000000017763568394002504630088805615234375 TO .000000000000003552713678800500926017761123046875 .00000000000000088817841970012523150444028076171875 TO .0000000000000017763568394002504630088805615234375 .00000000000000044408920985006261575222014014089375 TO .00000000000000088817841970012523150444028076171875 .000000000000000222044604925031307876110070070446875 TO .00000000000000044408920985006261575222014014089375 .0000000000000001110223024625156539380550350352234375 TO .000000000000000222044604925031307876110070070446875 .00000000000000005551115123125782696902751751761171875 TO .0000000000000001110223024625156539380550350352234375 .000000000000000027755575615628913484513758758805859375 TO .00000000000000005551115123125782696902751751761171875 .0000000000000000138777878078144567422568793794029296875 TO .000000000000000027755575615628913484513758758805859375 .00000000000000000693889390390722837112843968970146484375 TO .0000000000000000138777878078144567422568793794029296875 .000000000000000003469446951953614185564219844850732421875 TO .00000000000000000693889390390722837112843968970146484375 .0000000000000000017347234759768070927821097224253662109375 TO .000000000000				

9. CABINET OPTIONS INCLUDE SKINS, DOORS, COVERS, TRIM, & PWR CONTROLLERS.

10. WHERE A LONGER CABLE
USE ONE OF THE FOLLOWING:

11. OPTIONAL CABLE ROUTING INSIDE CHANNEL UPRIGHTS. DO NOT ALLOW CABLES TO BE CAUGHT BETWEEN CABINET UPRIGHTS AND REAR OF DISK DRIVE.

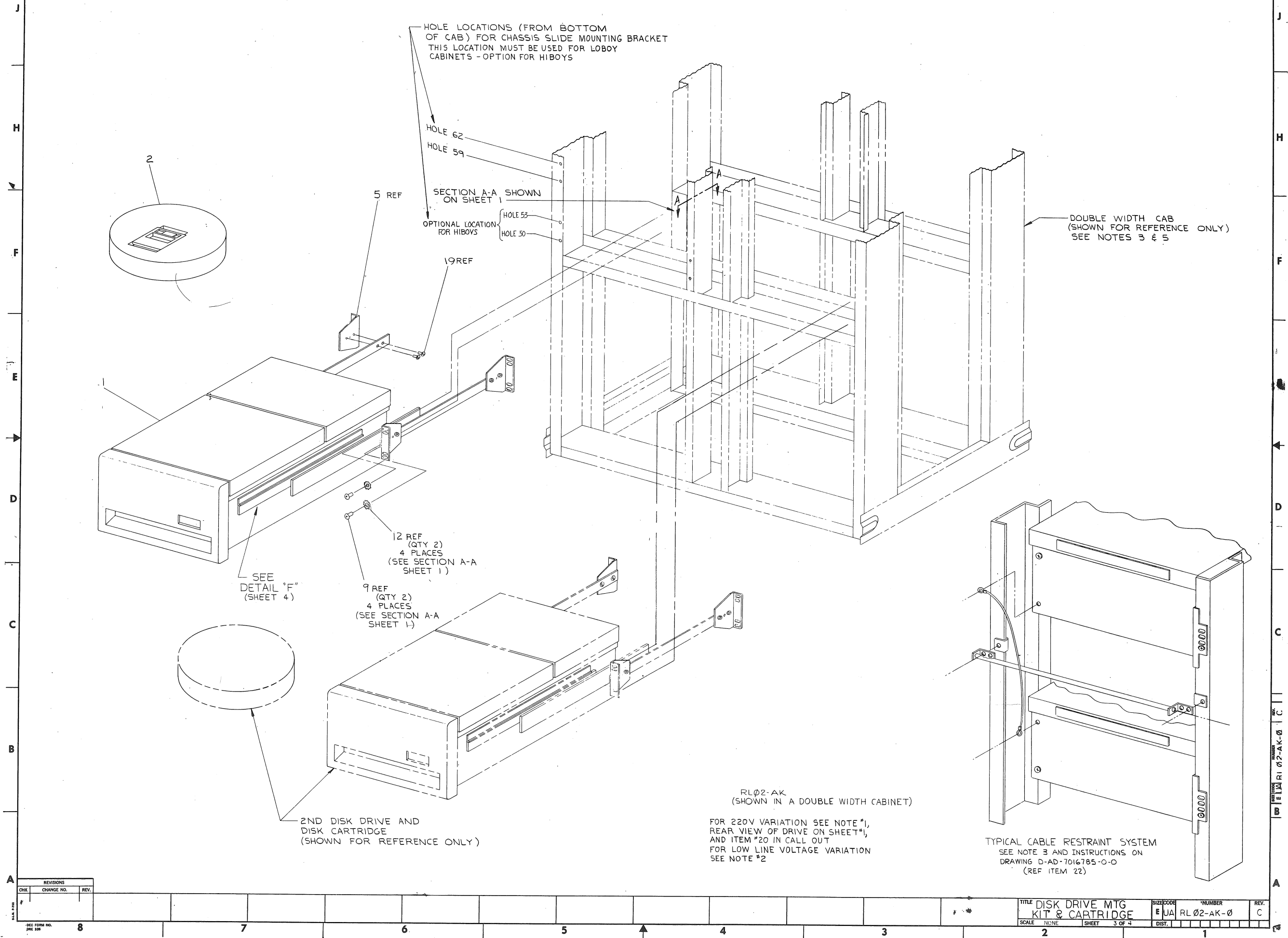
— SINGLE WIDTH CAB
(SHOWN FOR REFERENCE ONLY)
SEE NOTES 3 & 4



RLØ2-AK
(SHOWN IN A SINGLE
WIDTH CAB)
FOR 220 V VARIATION, SEE NOTE 1,
REAR VIEW OF DRIVE ON SHT 1 AND
ITEM 201. CALL OUT
FOR LOW LINE VOLTAGE VARIATION
SEE NOTE 2.

DETAIL "B"
SCALE: NONE
USE

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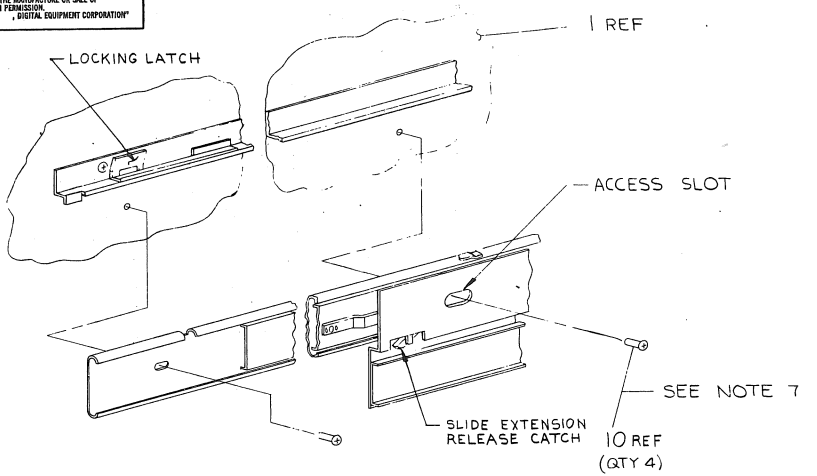


REVISIONS		
CHK	CHANGE NO.	REV.

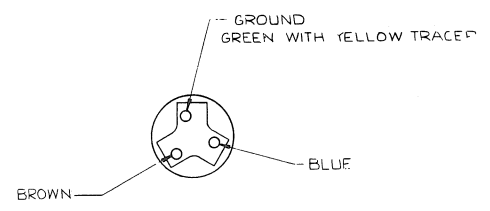
TITLE		DISK DRIVE MTG KIT & CARTRIDGE	SIZE CODE	EUA	NUMBER	RL 02-AK-0	REV.	C
SCALE	NONE	SHEET	3 OF 4	DIST.				

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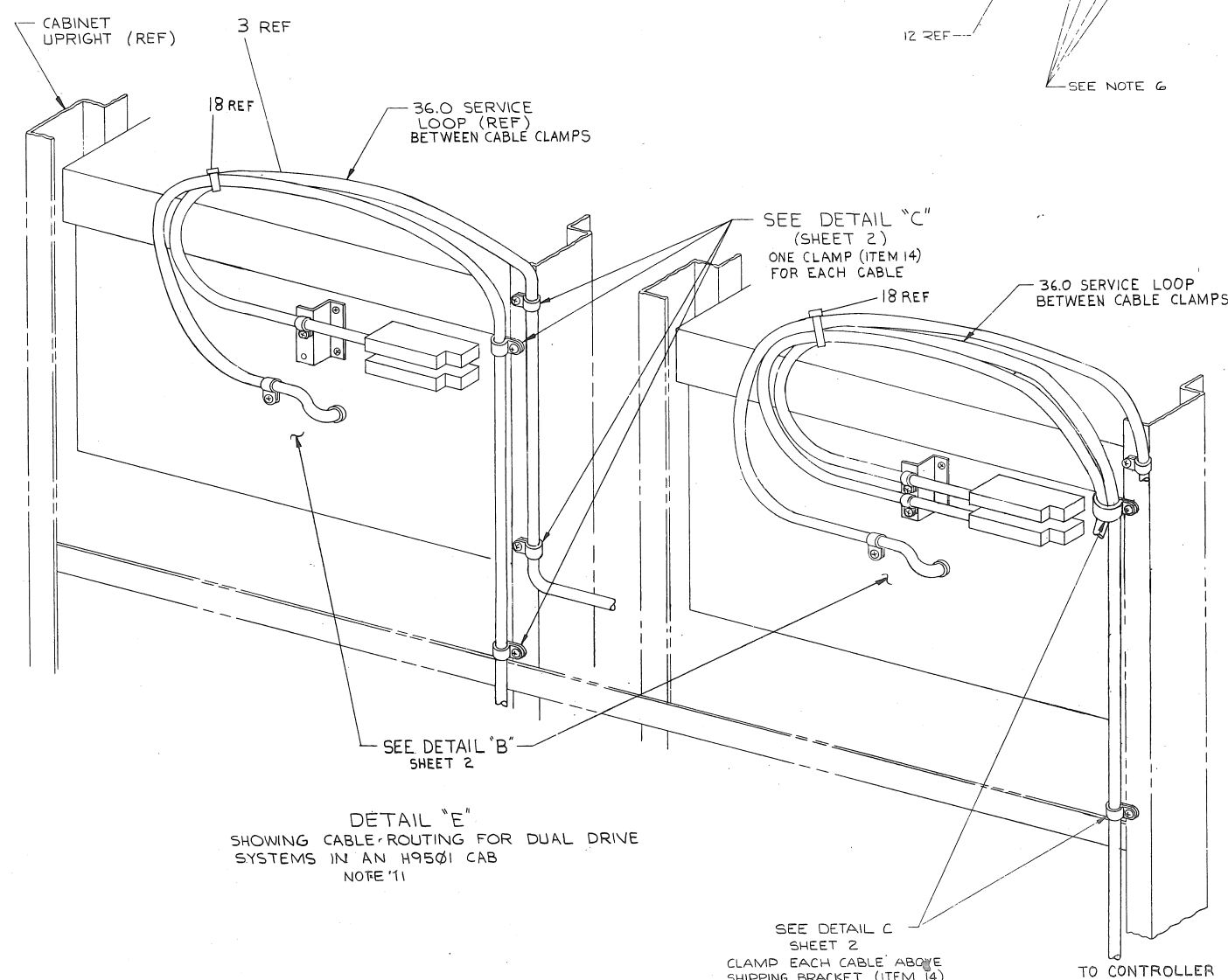
J
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A



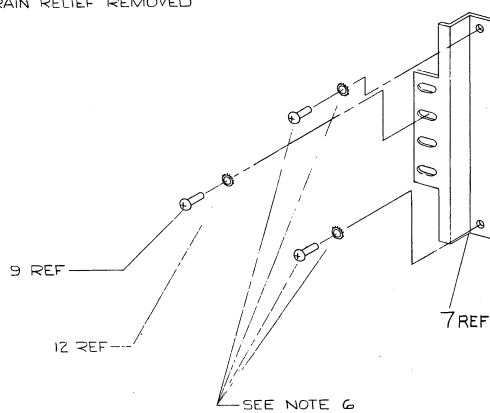
DETAIL 'F'
SEE NOTE 7



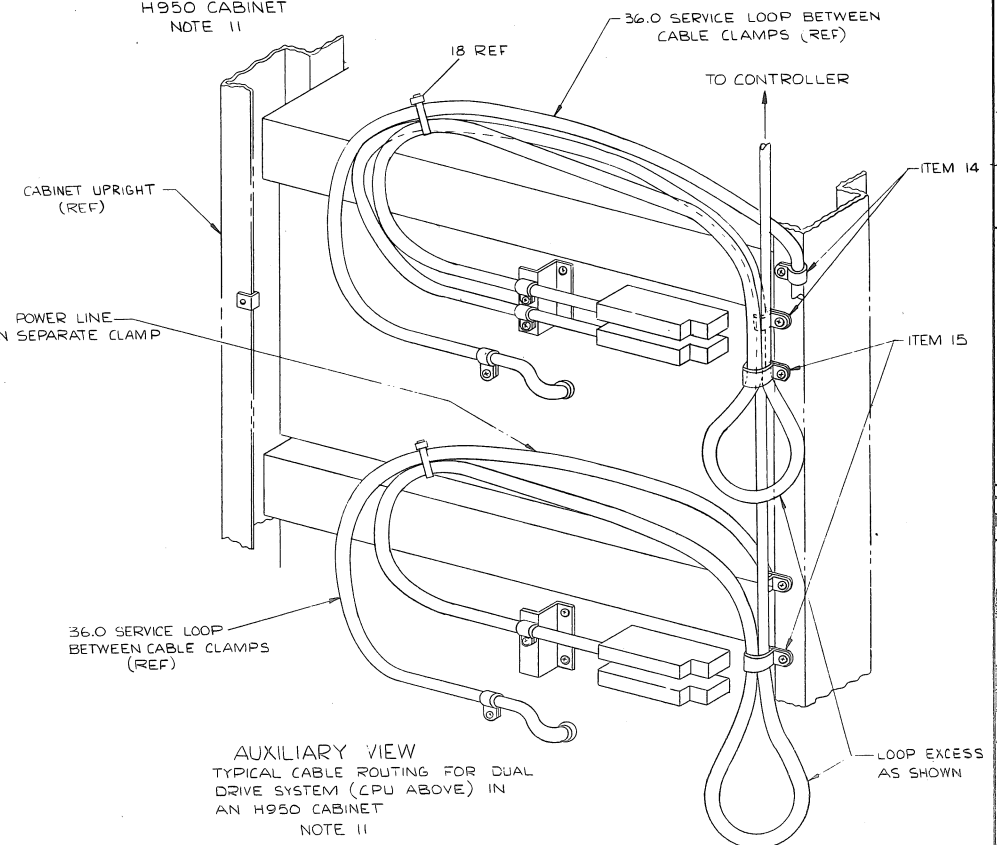
DETAIL 'G'
REAR VIEW OF ITEM 20
WITH STRAIN RELIEF REMOVED



DETAIL 'E'
SHOWING CABLE ROUTING FOR DUAL DRIVE SYSTEMS IN AN H9501 CAB
NOTE 11



DETAIL 'D'
SHOWING TYPICAL MOUNTING OF SHIPPING BRKT (ITEM 7) AND CABLE ROUTING FOR DUAL DRIVE SYSTEM (CPU BELOW) IN AN H950 CABINET
NOTE 11



AUXILIARY VIEW
TYPICAL CABLE ROUTING FOR DUAL DRIVE SYSTEM (CPU ABOVE) IN AN H950 CABINET
NOTE 11

REV.	CHANGE NO.	CHK

DEC FORM NO. 105

TITLE	DISK DRIVE MTG KIT & CARTRIDGE	SIZE CODE	EUA	NUMBER	RL02-AK-0	REV.	C
SCALE	NONE	SHEET	4 OF 4	DIST.			

J
H
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E
D
C
B
A

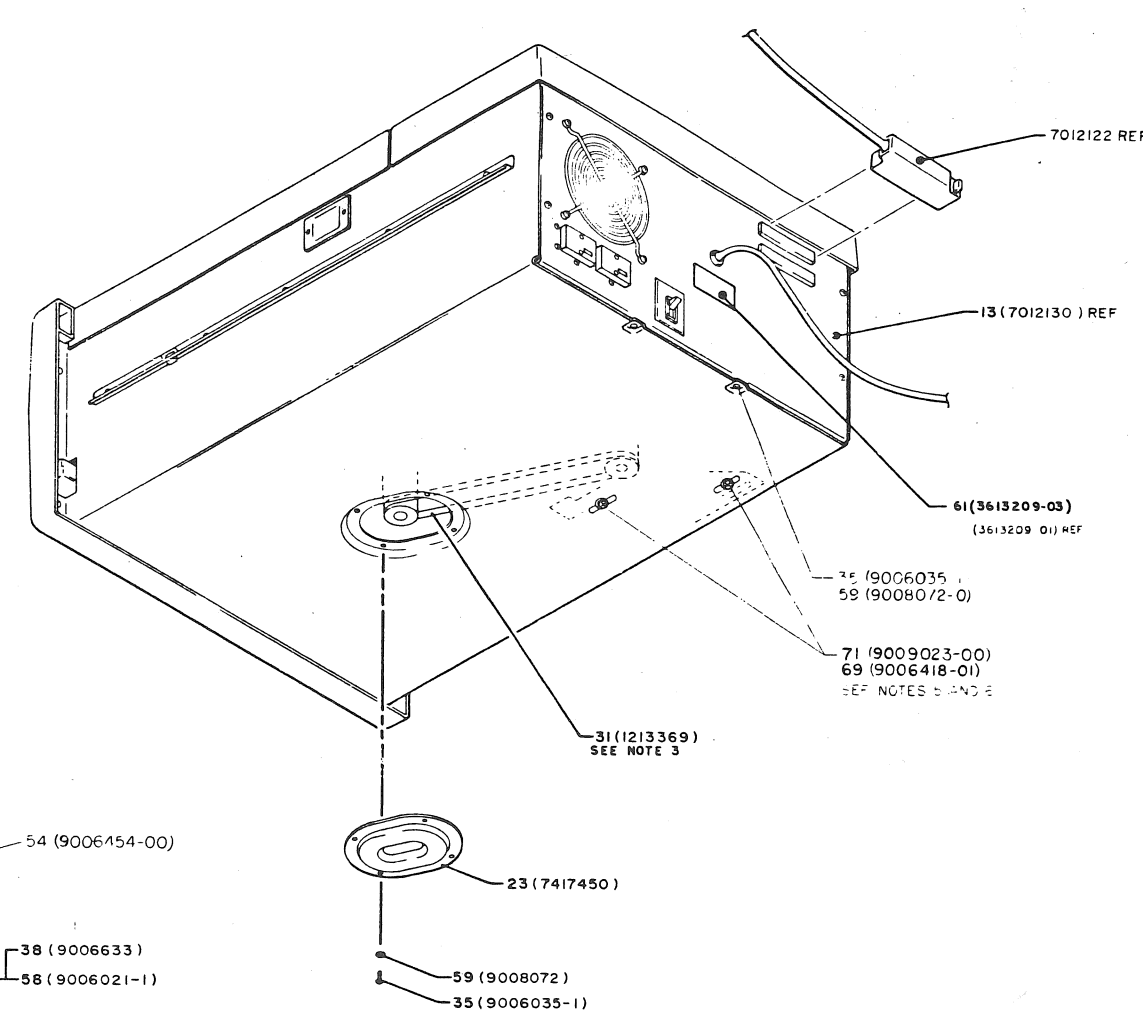
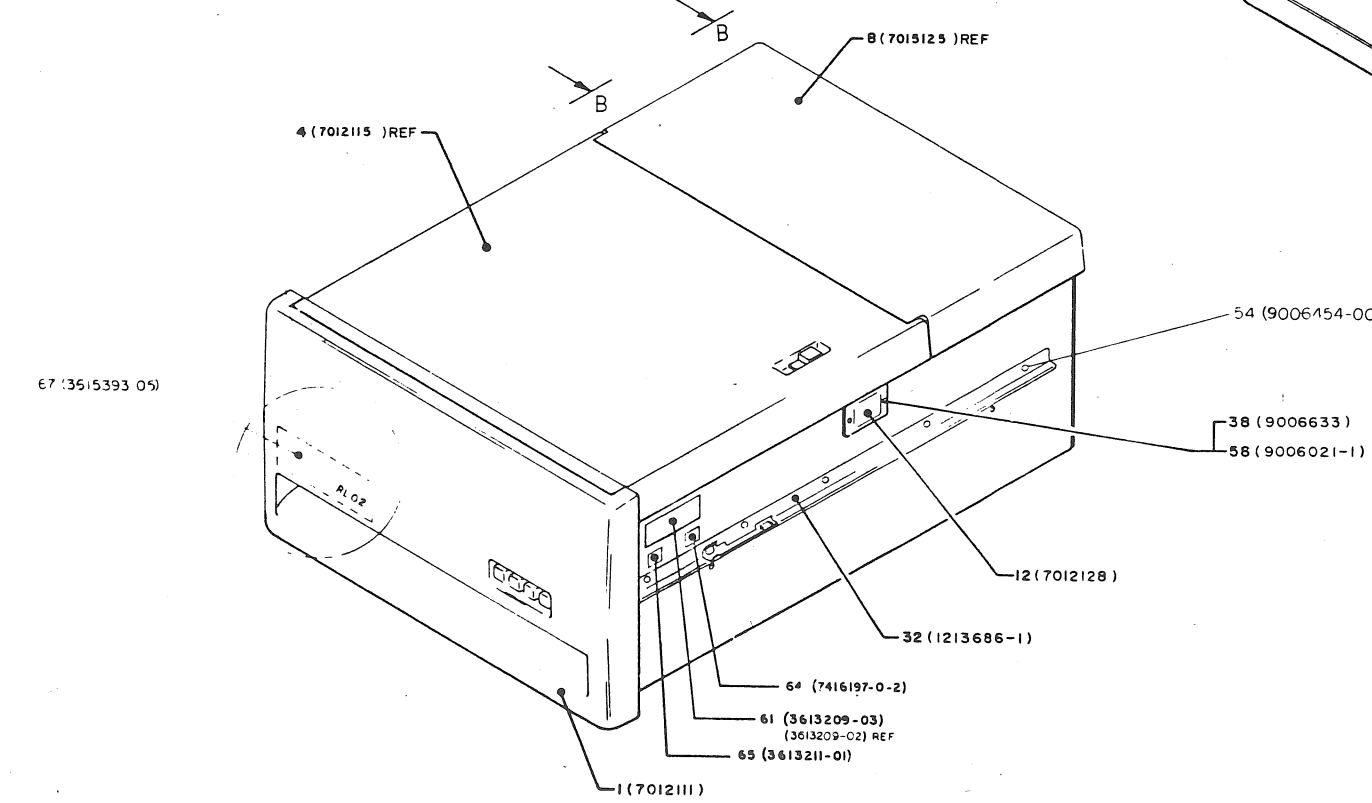
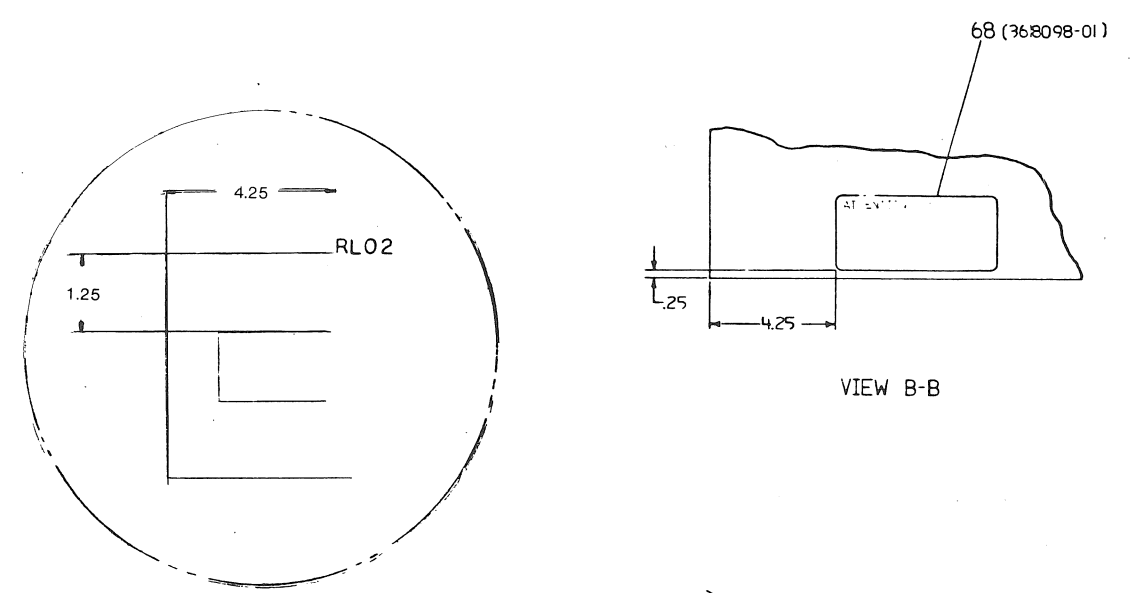
A | s

1

[illegible]

REVISIONS

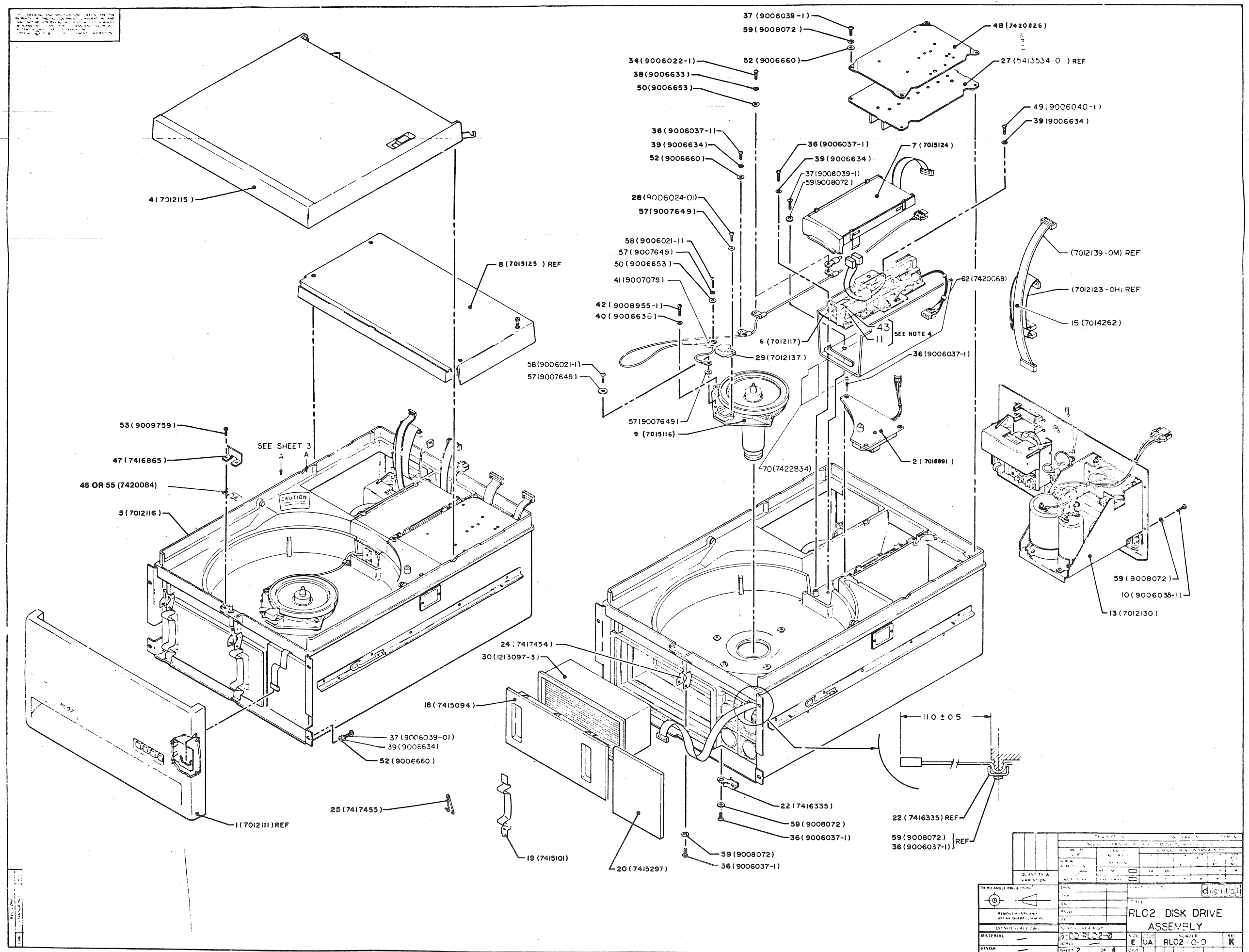
- NOTES
1. LOWER HEAD (ITEM 65) SHALL BE POSITIONED REAR ARDS AGAINST PIN IN CARRIAGE
 2. ALL SCREWS TO BE TIGHTENED AS FOLLOWS:
 4-40 SCREW, TORQUE 3.5 ± 0.5 IN LBS
 6-32 " 5.0 ± 1.0 " "
 8-32 " 10.0 ± 1.0 " "
 10-32 " 18.0 ± 2.0 " "
 3. DRIVE BELT TENSION 10.0 ± 1.0 LBS.
 4. 4-40 HEAD MOUNTING BOLTS TO BE TIGHTENED TO 52.5 IN. LBS.
 5. TORQUE 8-32 SELF TAPPING HARDWARE (ITEM 69) TO 16-18 IN. LBS.
 6. BLOWER HOUSING SECURING HARDWARE TO BE REMOVED BEFORE OPERATING UNIT.

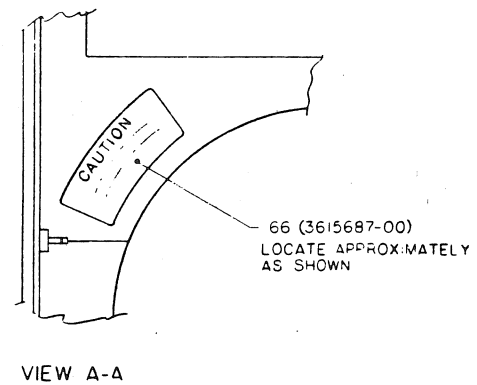
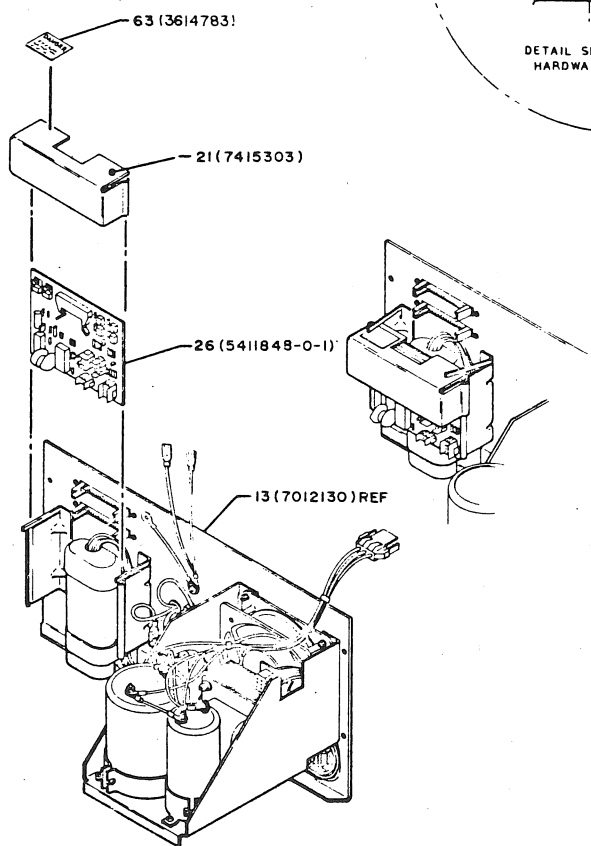
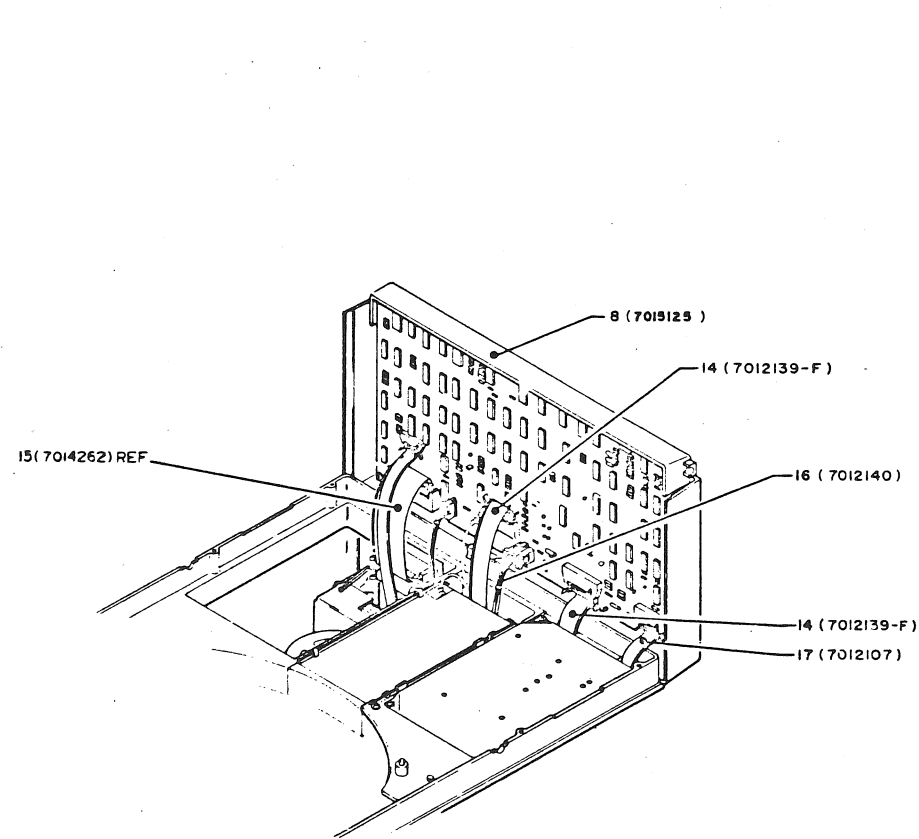
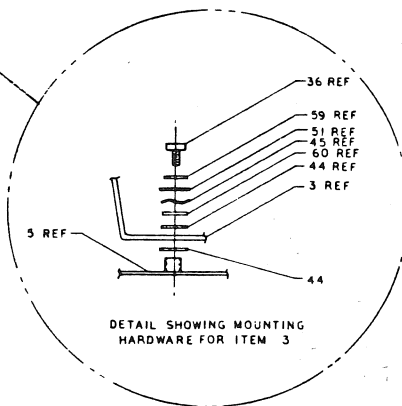
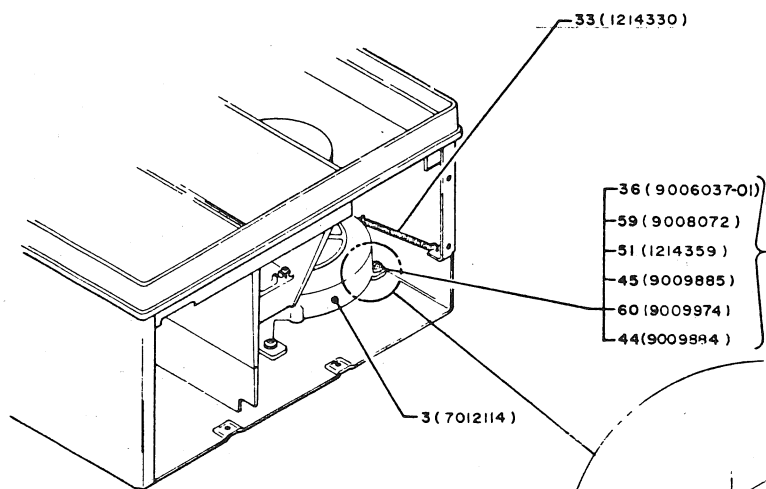
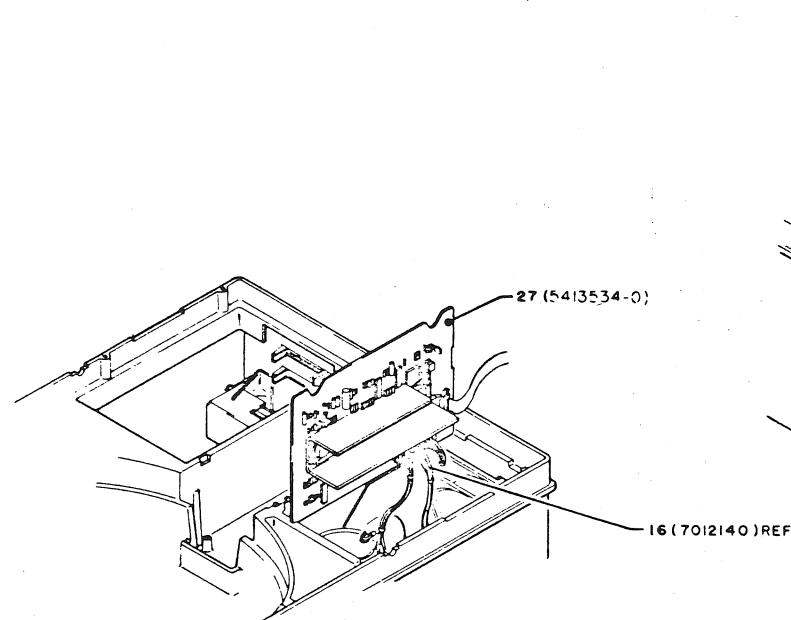


REV	DESCRIPTION	DATE	BY
1	RL02-0100	10/1/80	K
2	RL02-0100	10/1/80	K
3	RL02-0100	10/1/80	K
4	RL02-0100	10/1/80	K
5	RL02-0100	10/1/80	K
6	RL02-0100	10/1/80	K
7	RL02-0100	10/1/80	K
8	RL02-0100	10/1/80	K
9	RL02-0100	10/1/80	K
10	RL02-0100	10/1/80	K

CAUTION
 OFF-SHEET PARTS LIST EXISTS.
 SEE K-PL-PL02-0 DBP (20485).

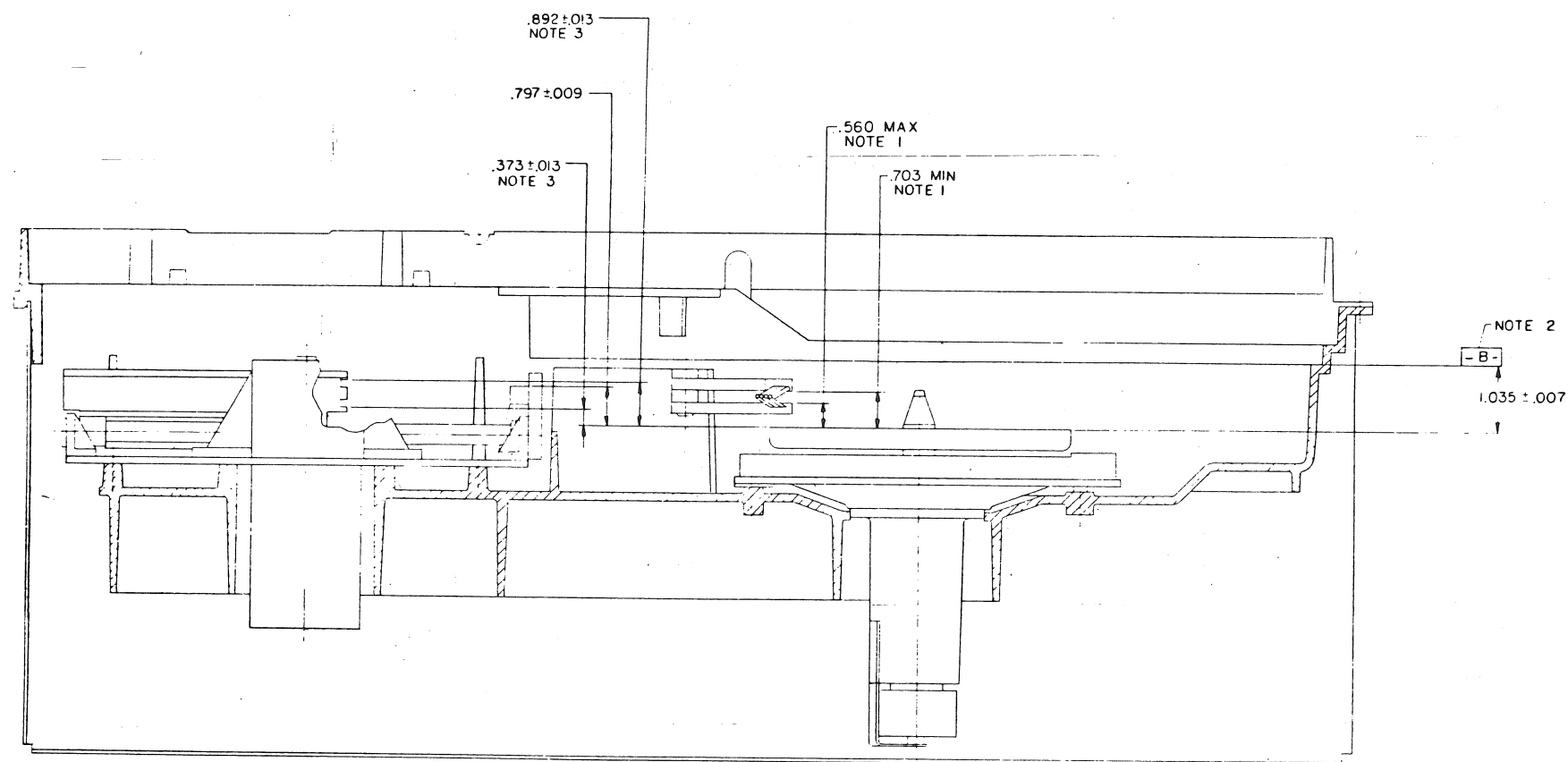
QUANTITY & VARIATION		DESCRIPTION		PART NO.		ITEM NO.	
QUANTITY	VARIATION	DESCRIPTION	PART NO.	ITEM NO.	DESCRIPTION	PART NO.	ITEM NO.
1		RL02 DISK DRIVE ASSEMBLY	RL02-0-0	K	1		
MATERIAL		FINISH		SCALE		SHEET 1 OF 4	
SEE PARTS LIST				EUA		REV K	



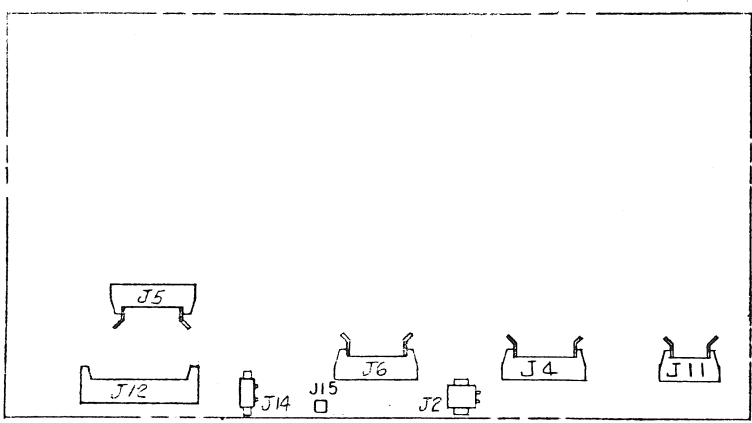


QUANTITY & VARIATION		DESCRIPTION		DWG. PART NO.		ITEM NO.	
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES		UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES		UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES		UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES	
UNITS	IN	UNITS	IN	UNITS	IN	UNITS	IN
ACCURACY	±0.005	ACCURACY	±0.005	ACCURACY	±0.005	ACCURACY	±0.005
CHECK TIME	1.0	CHECK TIME	1.0	CHECK TIME	1.0	CHECK TIME	1.0
QUALITY	1.0	QUALITY	1.0	QUALITY	1.0	QUALITY	1.0
MATERIAL		MATERIAL		MATERIAL		MATERIAL	
FINISH		FINISH		FINISH		FINISH	
DO NOT SCALE DWG.		DO NOT SCALE DWG.		DO NOT SCALE DWG.		DO NOT SCALE DWG.	
NEXT REVISION		NEXT REVISION		NEXT REVISION		NEXT REVISION	
MATERIAL		MATERIAL		MATERIAL		MATERIAL	
FINISH		FINISH		FINISH		FINISH	
SCALE		SCALE		SCALE		SCALE	
SHEET 3 OF 4		SHEET 3 OF 4		SHEET 3 OF 4		SHEET 3 OF 4	
DIST		DIST		DIST		DIST	
REV		REV		REV		REV	
K		K		K		K	

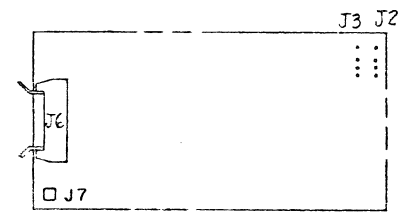
1. DIMENSION APPLIES TO HIGHEST OR LOWEST POINT ALONG BRUSH ARM OR BLOCK OF BRUSH.
2. 3. TOOLING POINTS. SEE DRAWING 7416846 OR 7415237.
3. DIMENSION HAS TO BE WITHIN .004 AT BOTH EXTREMES OF CARRIAGE TRAVEL.

[illegible]

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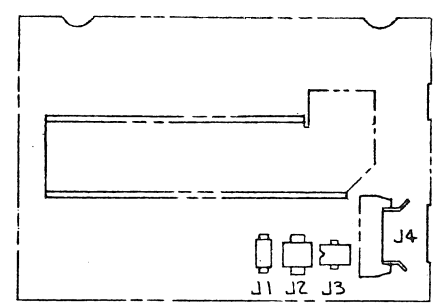
LOGIC BOARD
FIG 1



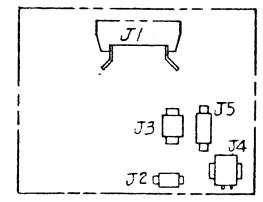
R/W BOARD
FIG 2



FRONT PANEL BOARD
FIG 3



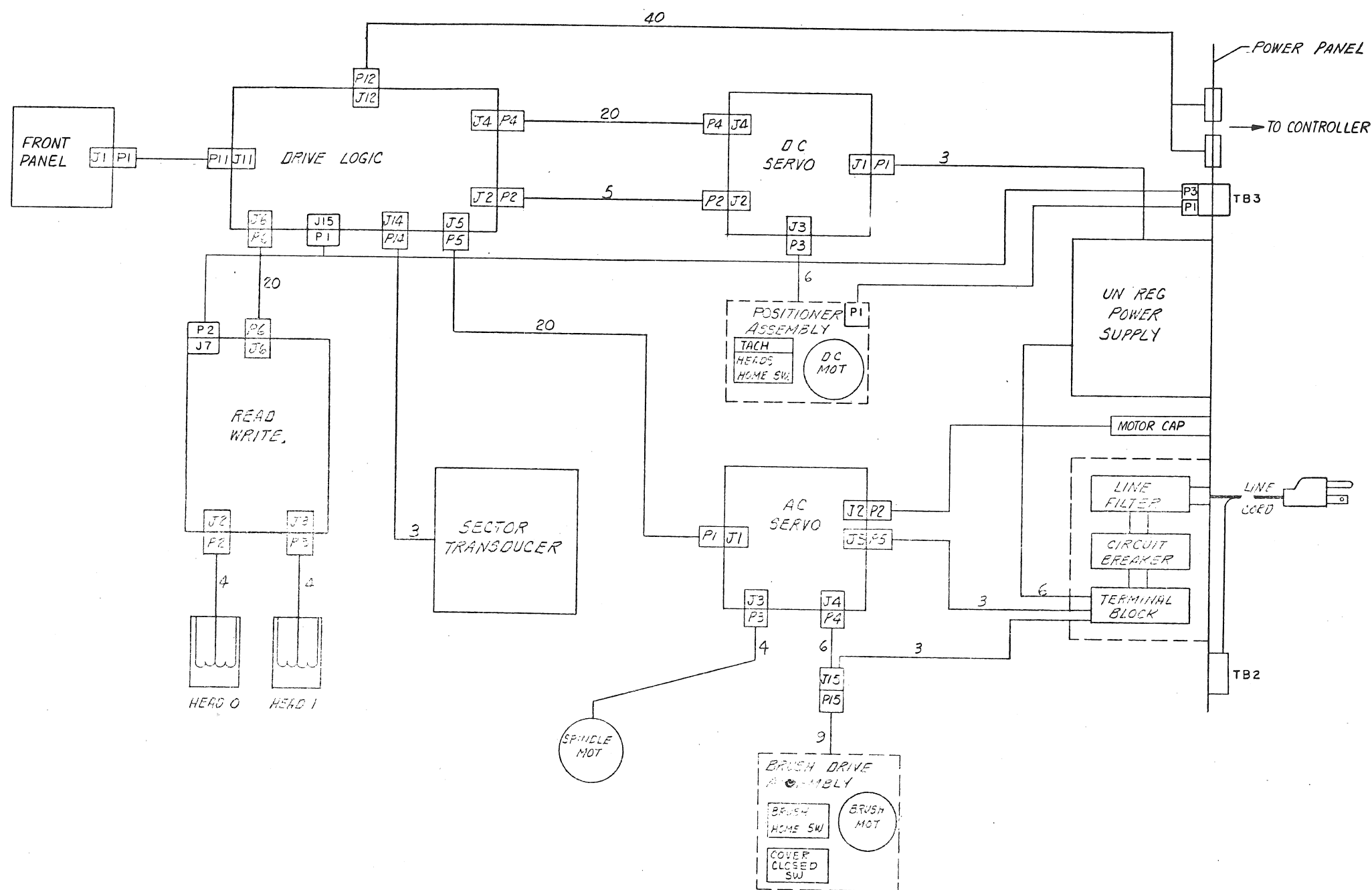
D.C. SERVO BOARD
FIG 4



A.C. SERVO BOARD
FIG 5

REV.	A	B	C
1	RL02-CZ001 B. MILLER	RL02-CX008 K. GUENZEL	RL02-CX010 M. ZARICH

THIRD ANGLE PROJECTION		DESCRIPTION		DWG. PART NO.		ITEM NO.	
REMOVE BURRS AND BREAK SHARP CORNERS		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CLASS OF ACCURACY (CHECK ONE)		NON-MATERIAL DIMENSION RANGE IN INCHES	
DO NOT SCALE DIM.		MEDIUM		±.004 ±.008 ±.012 ±.016 ±.024 ±.04		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 80.0	
MATERIAL		B-00-RL02-0		SCALE		SHEET 1 OF 2	
FINISH		NEXT FISHER ASSY.		TITLE		REV.	
				RL02 SYSTEM CABLING		C	



		DESCRIPTION		DWS. PART NO.		ITEM NO.	
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES					
		ANGLES 10° 30°		CLASS OF ACCURACY (CHECK ONE)		NOMINAL DIMENSION PARTS IN INCHES	
SURFACE QUALITY		☒ MEDIUM ☐ PRECISION		OVER C 0.02	0.01 0.02 0.03 0.04 0.05 0.06 0.07 0.08 0.09 0.10	0.01 0.02 0.03 0.04 0.05 0.06 0.07 0.08 0.09 0.10	0.01 0.02 0.03 0.04 0.05 0.06 0.07 0.08 0.09 0.10
QUANTITY & VARIATION		☒ MEDIUM ☐ PRECISION		0.01 0.02 0.03 0.04 0.05 0.06 0.07 0.08 0.09 0.10	0.01 0.02 0.03 0.04 0.05 0.06 0.07 0.08 0.09 0.10	0.01 0.02 0.03 0.04 0.05 0.06 0.07 0.08 0.09 0.10	0.01 0.02 0.03 0.04 0.05 0.06 0.07 0.08 0.09 0.10
THIRD ANGLE PROJECTION		25 SEPT 85		RLØ2		SYSTEM CABLEING	
REMOVE BURRS AND BREAK SHARP CORNERS		B-DD-RLØ2-Ø		NUMBER RLØ2-C-3		REV C	
MATERIAL		SCALE		SIZE D		C.F.	
FINISH		C.F.		C.F.		C.F.	

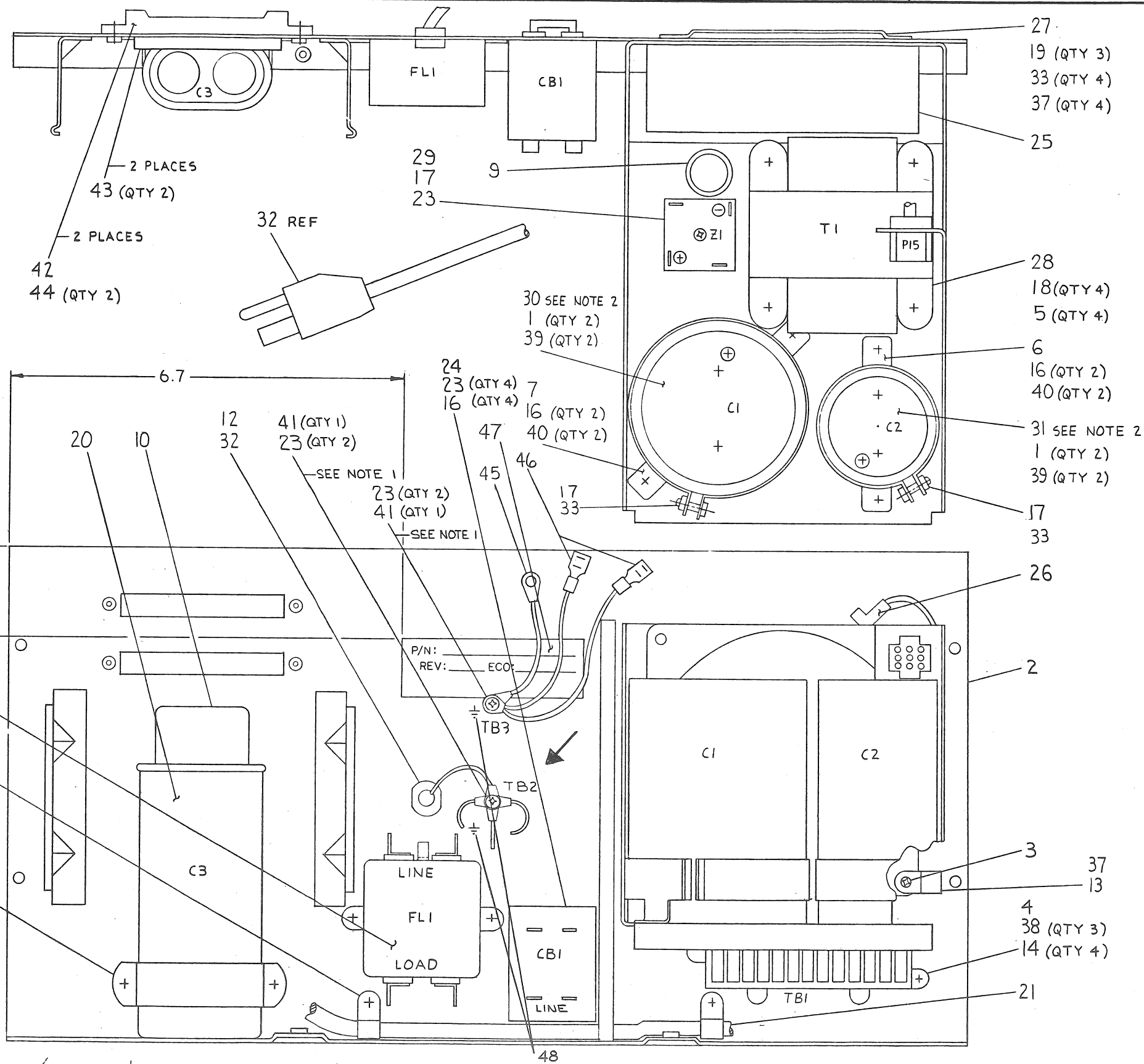
QUANTITY PER VARIATION
00

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	REVISION HISTORY	ECO NUMBER	REV	SECTION A	OF A	DRN:	W.GRIMES	DATE: 15 FEB 78	TITLE	D	I	G	I	T	A	L
1	D-AD-7012111-0-0	7012111-00	BEZEL ASSY		IA		SECTION, VARIATION INDEX	CHK'D:	W.MAJOR		DATE: 15 FEB 78	RL02 DISK DRIVE ASSEMBLY							
2	D-AD-7012112-0-0	7012112-00	BRUSH DRIVE ASSY		IB		LAJ 00												
3	E-AD-7012114-0-0	7012114-00	DISK MOTOR ASSY		IC														
4	E-AD-7012115-0-0	7012115-00	FRONT COVER ASSY		ID														
5	E-AD-7012116-0-0	7012116-00	MAIN CHASSIS ASSY		IE														
6	D-AD-7012117-0-0	7012117-00	POSITIONER ASSY		IF														
7	D-AD-7015124-0-0	7015124-00	RL02 R/W BOX ASSY		IH														
8	D-AD-7015125-0-0	7015125-00	RL02 REAR COVER ASSY																
9	D-AD-7015116-0-0	7015116-00	SPINDLE ASSY																
10		9006038-01	SCREW,PAN,PHIL 8-32X 7/16 SS																
11	D-IA-7015637-0-0	7015637-00	RL02 DATA HEAD "A"UP																
12	B-AD-7012128-0-0	7012128-00	ACCESS COVER ASSEMBLY																
13	D-AD-7012130-0-0	7012130-00	POWER PANEL ASSEMBLY																
14	B-IA-7012139-0-0	7012139-00	INTERCONNECT CABLE																
15	B-IA-7014262-0-0	7014262-00	INTERCONNECT CABLE ASSEMBLY																
16	C-IA-7012140-0-0	7012140-00	POWER HARNES IC																
17	B-IA-7012107-0-0	7012107-30	INTERCONNECT CABLE																
18	D-MD-7415094-0-0	7415094-00	REAR COVER																
19	C-MD-7415101-0-0	7415101-00	SPRING, PLENUM COVER																
20	C-MD-7415297-0-0	7415297-00	FILTER,PAD																
21	C-MD-7415303-0-0	7415303-00	COVER AC SERVO																
22	C-MD-7416335-0-0	7416335-00	CABLE RETAINER																
23	D-MD-7417450-0-0	7417450-00	HATCH																
24	C-MD-7417454-0-0	7417454-00	BRACKET PLENUM																
25	C-MD-7417455-0-0	7417455-00	LATCH PLENUM																
26	D-UA-5411848-0-0	5411848-00	ETCH BRD 54-11848																
27	D-UA-5413534-0-0	5413534-00	DC SERVO + POWER SUPPLY (RL02)																
28		9006024-01	SCREW,PAN,PHIL 6-32X 1/2 SS																
29	D-AD-7012137-0-0	7012137-00	TRANSDUCER ASSY																
30		1213097-00	FILTER,AIR,HEPA,33CFM																
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QUANTITY PER VARIATION
00

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	REVISION HISTORY	ECO NUMBER	REV	SECTION A	OF A	DRN:	W.GRIMES	DATE: 15 FEB 78	TITLE	D	I	G	I	T	A	L
31	D-IA-7015637-0-0	1213369-00	BELT,MOVEN,ENDLESS,375WX27,148LG																
32		1213686-01	MOUNTING RAIL FOR 12-13686-00																
33		1214330-00	SPRING,EXTENSION,2,SLOX,360D																
34		9006022-01	SCREW,PAN,PHIL 5-32X 3/8 SS																
35		9006035-01	SCREW,PAN,PHIL 8-32X 1/4 SS																
36		9006037-01	SCREW,PAN,PHIL 8-32X 3/8 SS																
37		9006039-01	SCREW,PAN,PHIL 8-32X 1/2 SS																
38		9006633-00	WASHER,LOCK,INT,2800D X .146ID																
39		9006634-00	WASHER,LOCK,INT,2300D X .172ID																
40		9006636-00	WASHER,LOCK,INT,3800D X .200ID																
41		9007079-00	CLAMP, CABLE, SCREW MNT, 1/8"																
42		9008955-01	SCREW,PAN,PHIL 10-32X 15/16SS																
43		7015637-01	RL02 DATA HEAD "A" IN																
44		9009884-00	WASHER, FLAT, TEFLON .62 OD X.31																
45		9009885-00	WASHER, SPRING																
46		7420084-00	SHIM, LATCH																
47		7416855-00	BRACKET LATCH																
48		7420826-00	COVER, DC SERVO BOARD																
49		9006040-01	SCREW,PAN,PHIL 8-32X 5/8 SS																
50		9006653-00	WASHER, FLAT, .375 O.D. X .156 I																
51		1214359-00	WASHER,FLAT,S/S .169ID X .620D X																
52		9006660-00	WASHER, FLAT, .375 O.D. X .187 I																
53		9009759-00	SCREW,FLAT,PHIL, 8-32X 3/8																
54		9006454-00	RIVET, BLIND, .156 DIA X .254 LG																
55		7420084-01	SHIM LATCH																
56		3700406-00	INSTR PKG DISK RL01 DRIVE																
57		9007649-00	WASHER, LOCK, EXTERNAL TOOTH #6																
58		9006021-01	SCREW,PAN,PHIL 6-32X 5/16 SS																
59		9008072-00	WASHER, LOCK, EXTERNAL TOOTH #8																
60		9009974-00	WASHER, FLAT, METAL,.62 O.D. X																
61		3613209-03	LABEL,ELECTRICAL DATA VARIATIO																
62		7420068-00	SHIELD POSITIONER																
63		3614783-00	LABEL,ADH BACK "DANGER HIGH VOLT																
64		7416197-02	DECAL, LA36																
65		3613211-01	DECAL,CLEAR PREPRINTED CSA 1-1/4																
66		3615687-00	LABEL,ADHESIVE BACK FOR RL02																
67		3615393-05	LABEL,RUB-ON,RL02																
68		3616643-00	LABEL,CAUTION																
69		9006418-01	SCREW,TAPPING,TYPE TT,PAN ,PHIL,																
70		7422834-00	INSULATOR,HEAD CABLE																
71		9009023-00	WASHER,LOCK,INT,.3300D X .172ID																
72		7017608-00	*** THIS ITEM IS NOT USED ***																
73		7017609-00	*** THIS ITEM IS NOT USED ***																

SIZE	CODE	DOCUMENT NUMBER	REV
K	PL	RL02-0-DBP	H



NOTES:

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

2. ORIENT TERMINALS AS SHOWN.

VALID CS FOR REV V AND V1

NOTE:

GROUNDS MOVED TO LINE FILTER FOR REV V1

CAUTION:OFF SHEET PARTS LIST EXISTS.
SEE K-PL-7012130-0-DBP (Z0849)

		DESCRIPTION		DWG./PART NO.		ITEM NO.			
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES							
		ANGLES 40° 30'	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE INCHES					
				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 80.0
SURFACE QUALITY		IN ☒	MEDIUM ☐	±.004	±.008	±.012	±.016	±.024	±.04
QUANTITY & VARIATION		MICROINCHES ☒	PREFERRED ☐	±.012	±.016	±.025	±.04	±.063	±.01

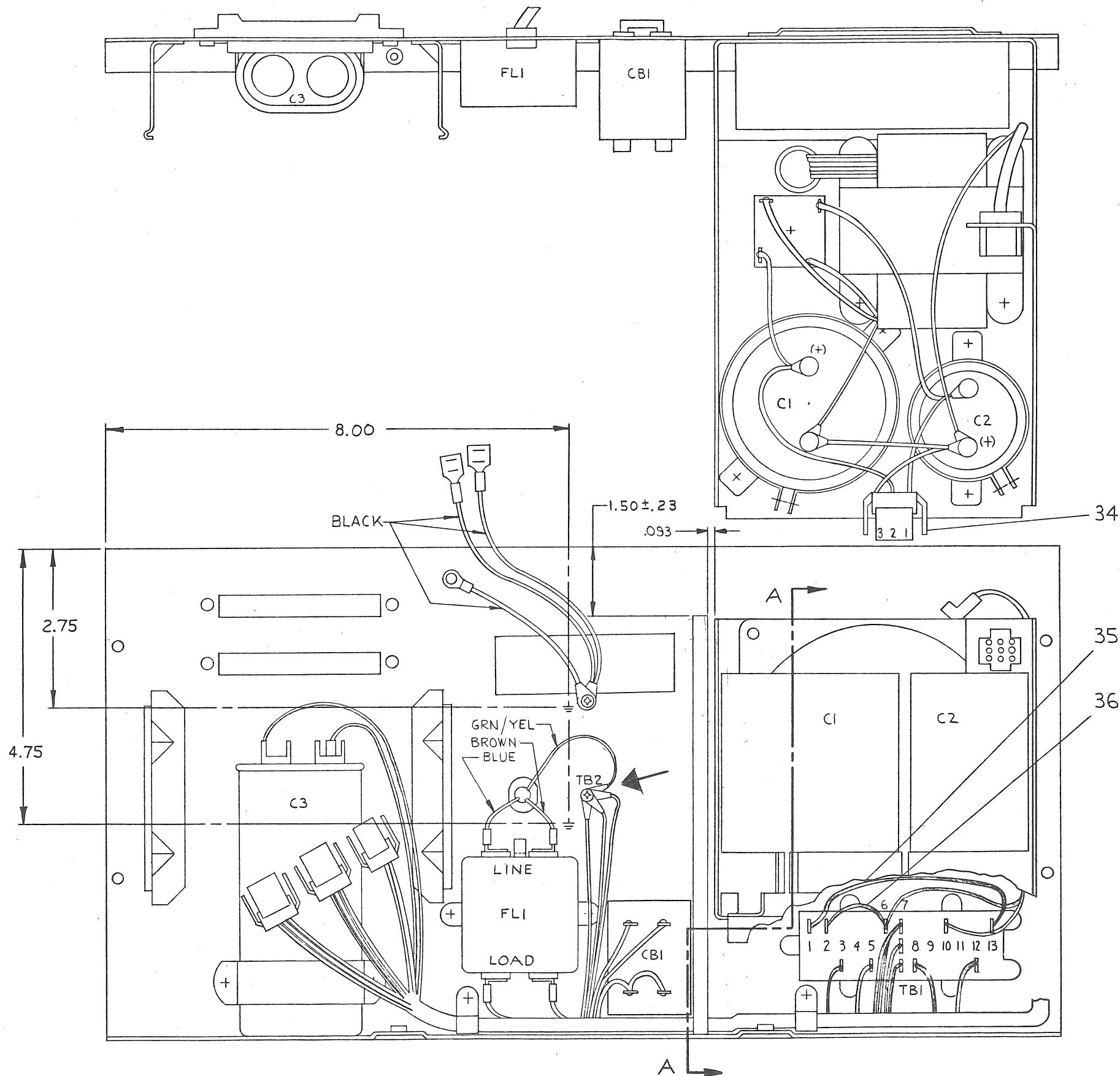
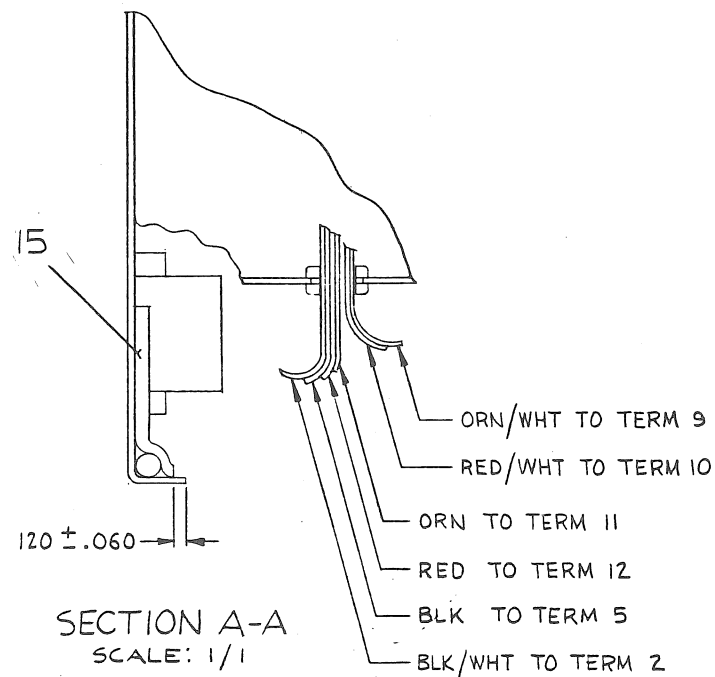
	THIRD ANGLE PROJECTION	DRN. D. MELCHIOR 12/AUG 77	FIRST USED ON RL01	digital
	REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D G. SCHNEIDER 24/AUG 77		
	DO NOT SCALE DWG	ENG. G. SCHNEIDER 24/AUG 77		
	MATERIAL	PROJ. ENG. R. ARLOFF 30/AUG 77		
	SHEET	PROD. P. RYLANDER 30/AUG 77		

TITLE		POWER PANEL ASSY	
SHEET	OF 3	SIZE	CODE
FINISH		D	AD7012130-0-0
		DIST.	
		NUMBER	REV.
			1

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NOTES:

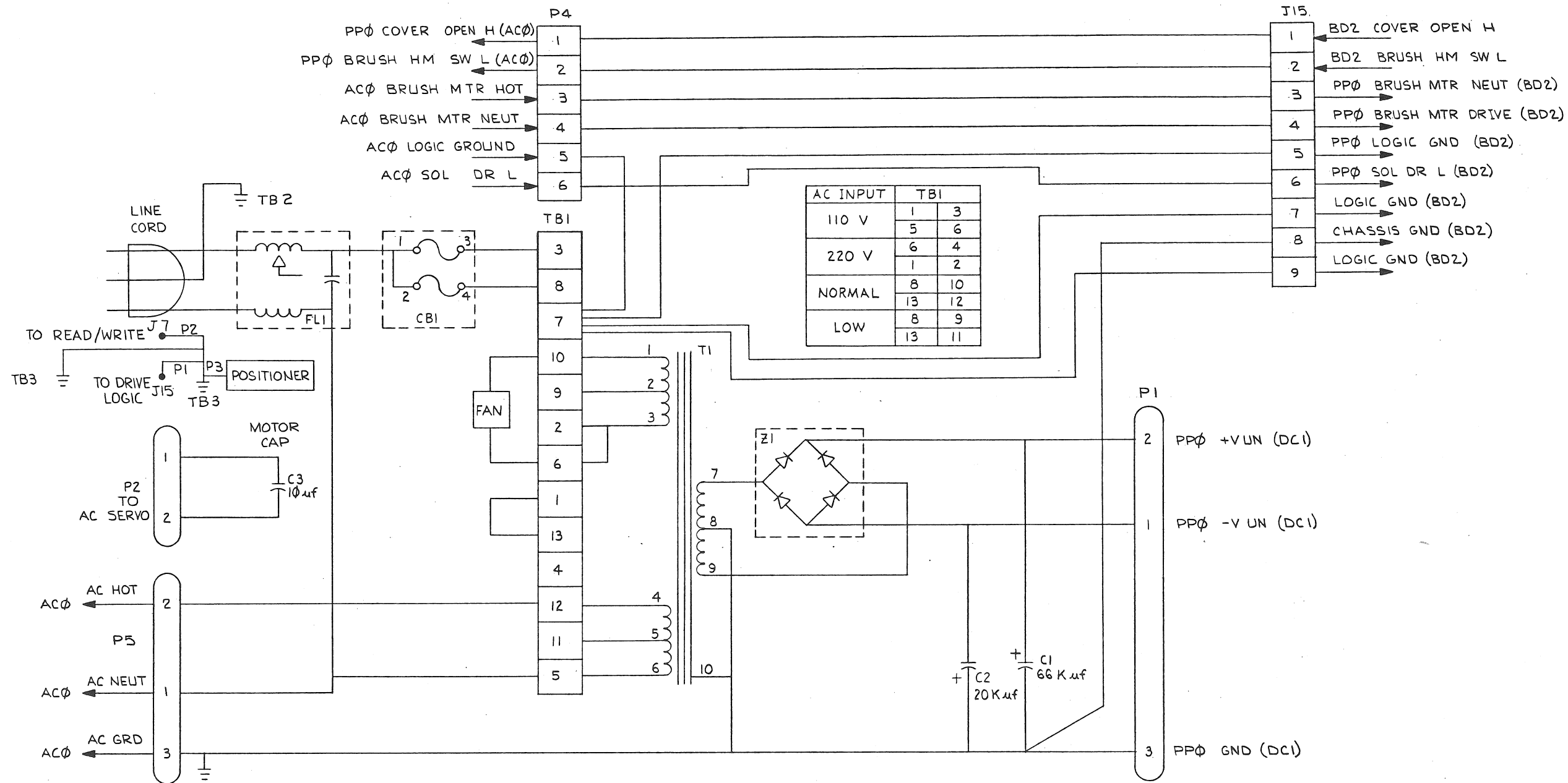
- INPUT VOLTAGE 50 OR 60 HZ
90-110, 105-128 VAC
180-220, 210-256 VAC
- OUTPUT VOLTAGE ± 11.5 VDC MIN AT MIN POINT OF THE RIPPLE. 18 VDC MAX. AT HIGH LINE. (MAX OF 25 VDC AT HIGH LINE NO LOAD).
- OUTPUT CURRENT: POSITIVE OUTPUT
2.5 AMP CONTINUOUS
3.5 AMP PULSE "25 MS"
NEGATIVE OUTPUT
.25 AMP CONTINUOUS
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 AD 7012130-0-0	V	
SCALE: 1/1	SHEET 2 OF 3	DIST.		

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VALID FOR REV V AND FOR REV V1

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.

1	9006070-01
2	741326-00
3	9006028-01
4	7012127-00
5	9008072-00
6	1210430-00
7	1210431-00
8	1213156-01
9	9007016-00
10	1213683-00
11	9007113-00
12	9009768-01
13	9007082-00
14	9009800-01
15	9009059-01
16	9006020-01
17	9006023-01
18	9006036-01
19	9006027-01
20	1013102-00
21	7012108-00
22	1215360-00
23	9006633-00
24	1216827-00
25	1209403-01
26	7012110-00
27	1210263-00
28	1613897-00
29	1110051-00
30	1013530-00

REVISION HISTORY						BASIC PART NO:	ORLO1
ENG!	ECD NUMBER	IREV	SECTION A OF A	DNRN	D, MELCHOIR	DATE: 12-AUG-76	
KG	7012130-CX010	IP	SECTION. VARIATION INDEXCHK'D:	G. SCHNEIDER	TITLE	PARTS LIST	
KG	RLO2-CX008	IR	[A] 00		POWER PANEL ASSEMBLY		
KG	7012130-CX011	IS					
MZ	RLO2-CX010	IT	[B]	IDES. ENG.: G. SCHNEIDER	DATE: 24-AUG-77		
KG	7012130-CX012	IU			DATE: 24-AUG-77		
IW	7012130-CX013	Iv	[C]				
	<i>John Naculich 12-5-80</i>		[D]	RESP. ENG.: P. ARNOLD	DATE: 30-AUG-77		
					SIZE CODE! NUMBER	REV	
			[E]	INF.G. ENG.: B. RYLANDER	DATE: 30-AUG-77	K PL	V
				ASSEMBLY NUMBER: ID-AD-7012130-0-0	# B-DD-RLO2-0	FILE NAME:	Z0849V.PLS
			[F]		TOP DOCUMENT NUMBER:		EDIT # 17

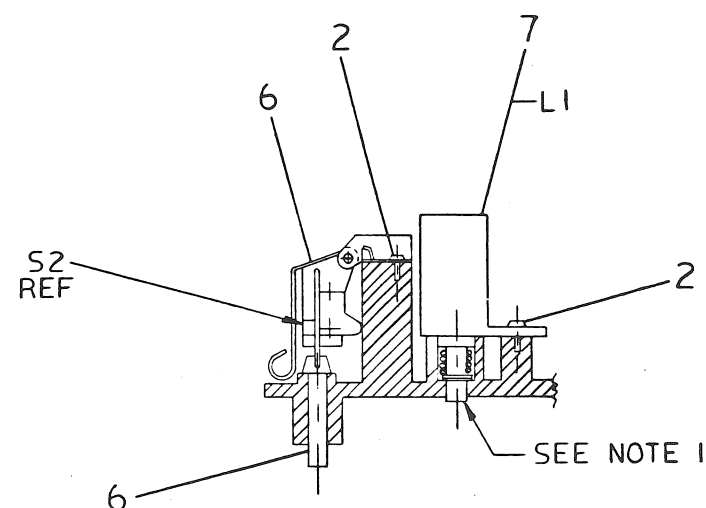
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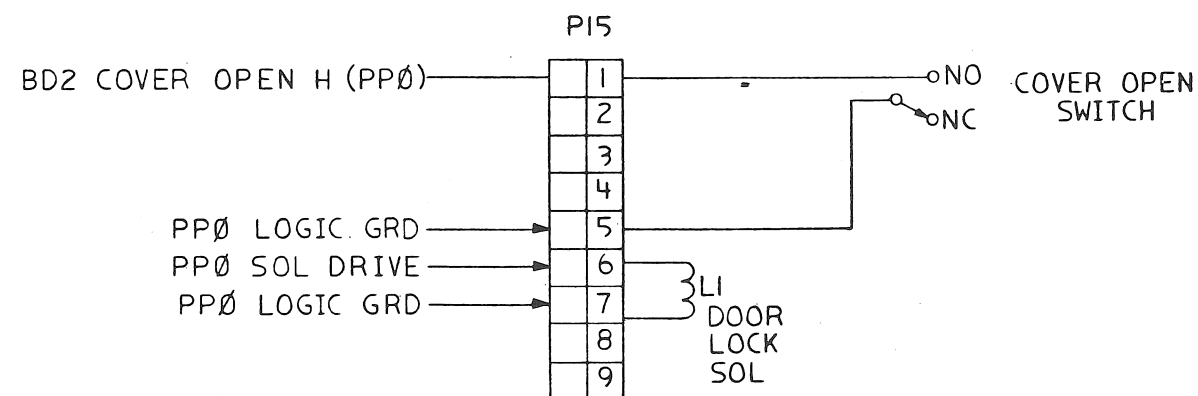
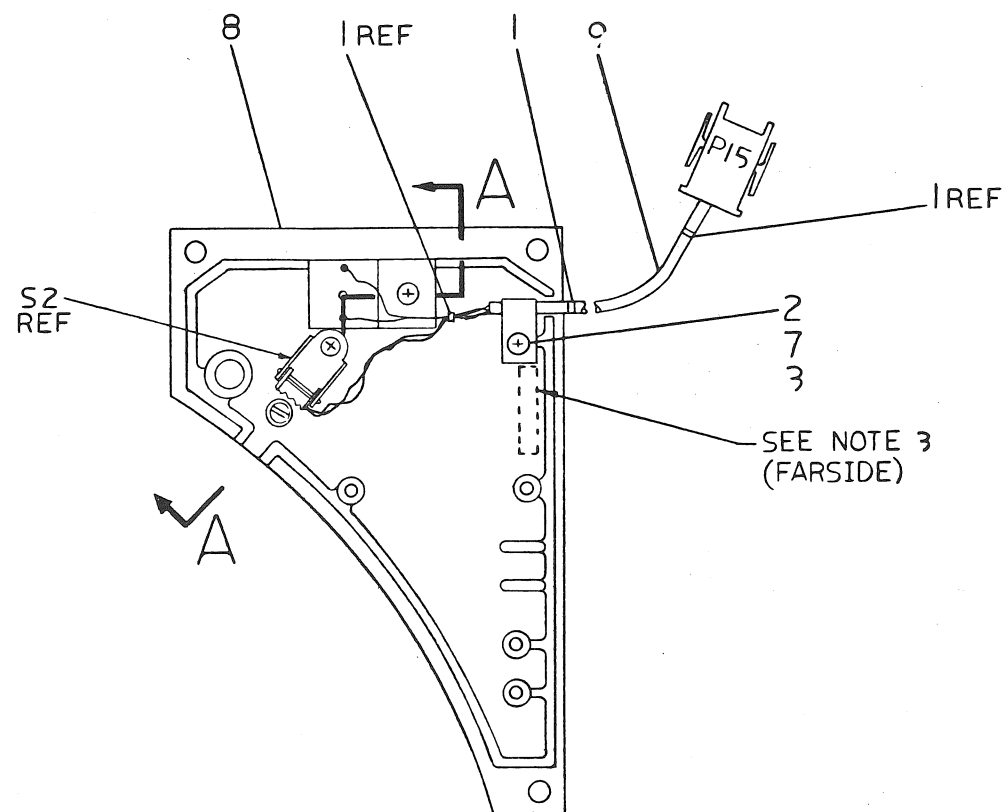
31	31	1013531--00
32	32	7012109--00
33	33	9004560--00
34	34	7012142--00
35	35	7012125--0E
36	36	7012125--0B
37	37	9004653--00
38	38	9009800--04
39	39	9004635--00
40	40	9007649--00
41	41	9006021--01
42	42	1211591--35
43	43	1211591--38
44	44	9009301--01
45	45	7017609--00
46	46	9017608--00
47	47	9009255--00
48	48	3612680--00

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

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SECTION A-A



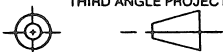
CIRCUIT SCHEMATIC

NOTES:

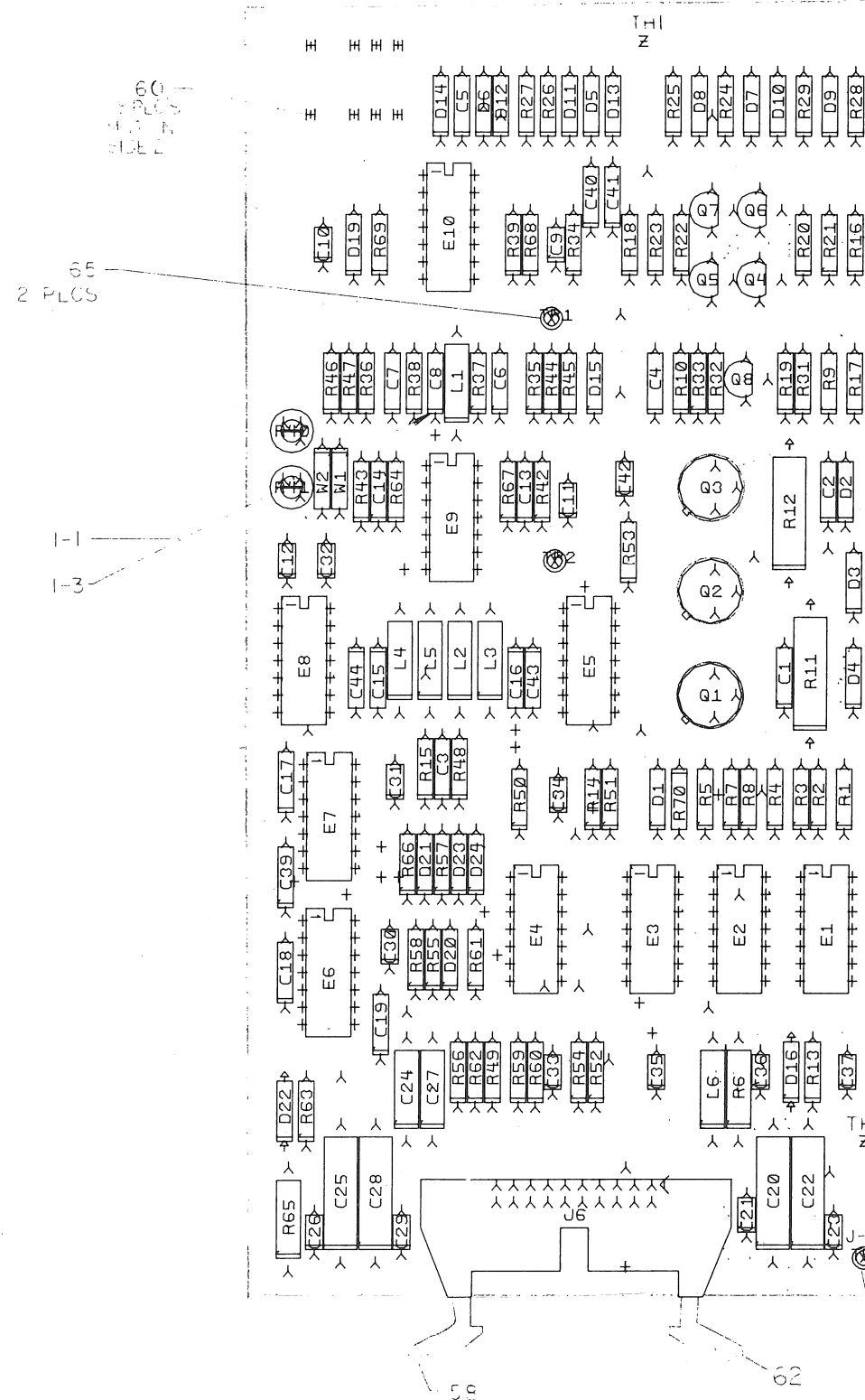
1. PLUNGER OF SOLENOID, COVER LOCK (ITEM 5) MUST MOVE FREELY. WHEN ASSEMBLY IS POSITIONED IN "UP" POSITION (TIP OF PLUNGER POINTING UP) A D C VOLTAGE OF 6.9 VOLTS SHALL PULL THE PLUNGER DOWN.
2. CONNECT LEADS OF SOLENOID, COVER LOCK (ITEM 5) TO PINS 6 & 7 OF CONNECTOR BODY (PI5). DRESS WIRES AND TIE TO COVER, SWITCH HARNESS (ITEM 9) WITH TIE, CABLE (ITEM 1) AS SHOWN.
3. PART TO BE MARKED WITH PART NO. (7016991-00) AND LATEST REVISION LETTER IN AREA SHOWN (FAR SIDE).

CAUTION: OFF SHEET PARTS LISTS EXISTS.
SEE K-PL-7016991-0-DBP (Z0984).

REVISION HISTORY		
DATE	ECO NUMBER	REV.
582	RELEASED TO ECO CONTROL PER ECO PUOI- C/48 AT REV *	*
	K.D. 1 OCT 80 K. GUENZEL <i>K.D. Guenzel</i>	

				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 .X = ± .1 .XX = ± .02 .XXX = ± .005				ANGLES ± 0° 30' SURFACE QUALITY ✓ MICROINCHES				APPLICABLE DIMENSION RANGE (CHECK ONE) ☐ ☐ ☐				DIMENSION RANGE IN INCHES											
												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	
												± .02				± .03		± .05		± .10			
												± .004		± .008		± .012		± .016		± .024		± .04	
QUANTITY & VARIATION																							
THIRD ANGLE PROJECTION  DO NOT SCALE DRAWING REMOVE BURRS AND BREAK SHARP CORNERS MATERIAL SEE PARTS LIST FINISH 				DRN KD 003 CHW P.E. Nick DES/ENG John Hount RES/ENG John Hount MFG/ENG KD 02 NEXT HIGHER DOC				DATE 1 OCT 80 DATE 22 OCT 80 DATE 2 OCT 80 DATE				TITLE digital SWITCH COVER ASSY DIVISION SIZE CODE NUMBER 7016991-0-0 REV. * SCALE 1/1 SHEET 1 OF 1											

COMPONENT SIDE VIEW



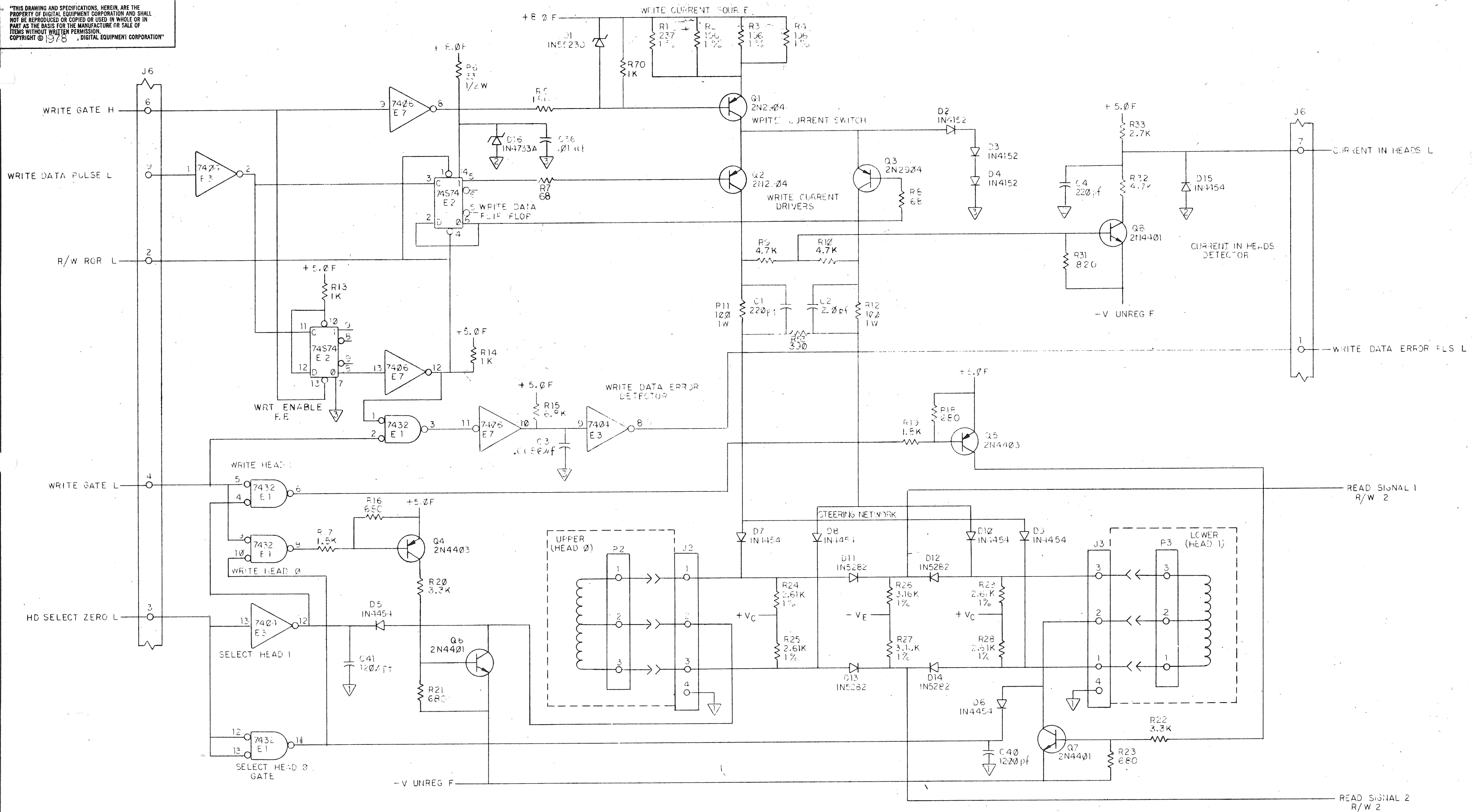
 B

CHK	CHANGE NO	REV
B-0 11 _{ad} 86	5413730- CXØØ1 M-ZARICH M.Z... ..	B

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

SIGNATURES		DATE	digital			
DRN. <i>L. Palm</i>		<i>8/1/78</i>				
CHK'D. <i>L. Palm</i>		<i>8/2/78</i>				
ENG. <i>B. Atwood, EL</i>		<i>8/2/78</i>	TITLE RL02			
PROJ. ENG. <i>H. Day</i>			READ/WRITE BOARD			
PROD. <i>1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10</i>						
SCALE <i>2/1</i>		SIZE	CODE	NUMBER	REV	
SHT: 1 OF 2		D	UA	5413536-0-0	E	
NEXT HIGHER ASSY: B-DD-5413536-0						

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

REV.	CHG.	NO.	DATE	BY
1		1	8/1/78	B
2		2	8/18/78	B
3		3	8/18/78	B
4		4	8/18/78	B
5		5	8/18/78	B
6		6	8/18/78	B
7		7	8/18/78	B
8		8	8/18/78	B
9		9	8/18/78	B
10		10	8/18/78	B

DRN. <i>B. Nichols</i>	4/1/78	FIRST USED ON	RLO2	digital
CHK'D <i>L. R. L.</i>	8/1/78	TITLE	READ/WRITE BOARD	
ENG. <i>R. J. J.</i>	8/18/78	PROJ. ENG.	<i>W. J. J.</i>	
PROD. <i>P. J. J.</i>	8/18/78	PROD. <i>P. J. J.</i>		
NEXT HIGHER ASSY.		SIZE CODE	D CS	
SCALE		NUMBER	5413536-0-1	
SHEET	1 OF 2	REV.	B	

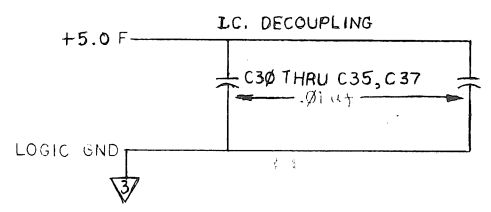
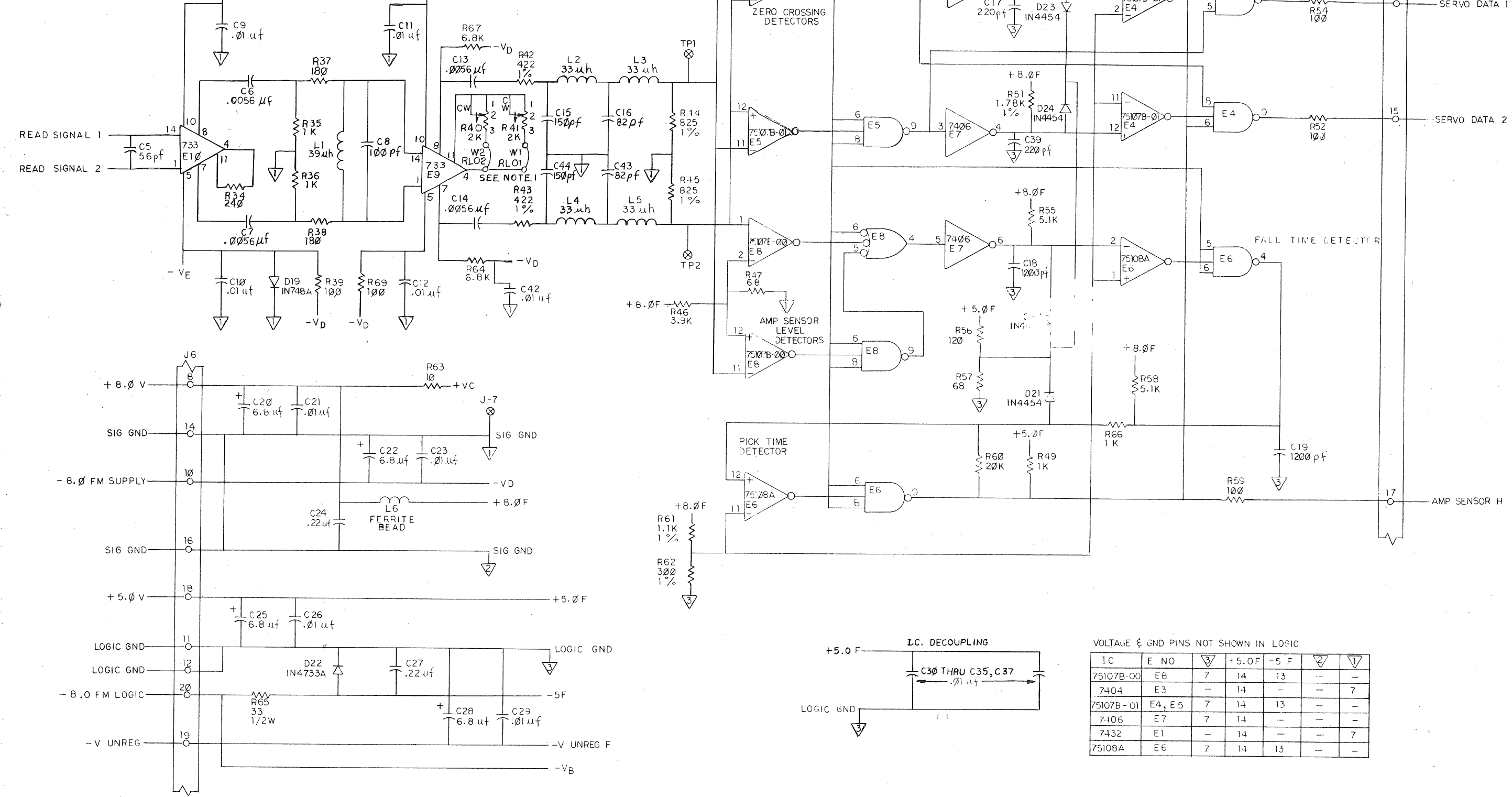
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D

C

B

A

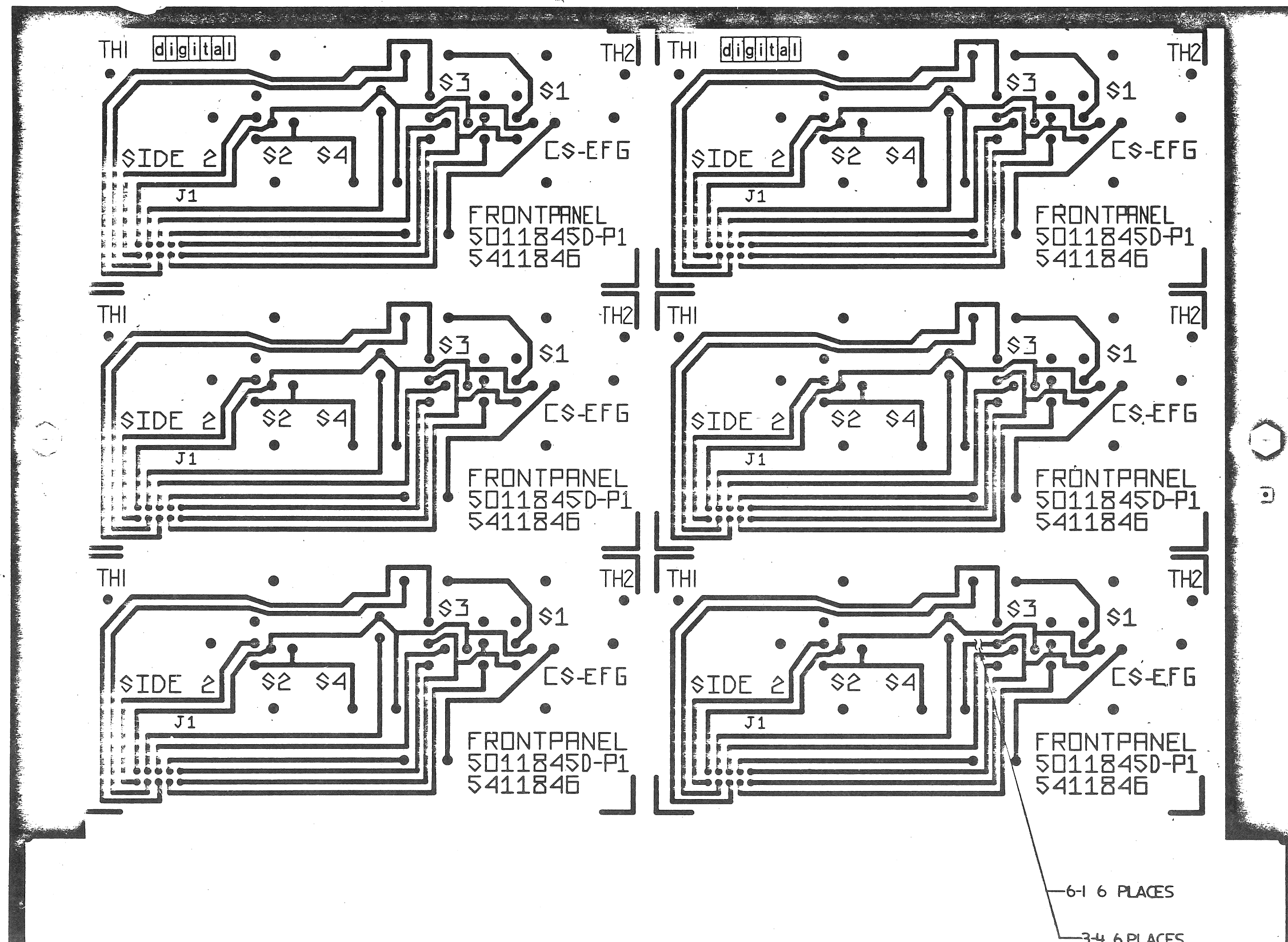


VOLTAGE & GND PINS NOT SHOWN IN LOGIC

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			TITLE		SIZE CODE		NUMBER		REV.	
CHK	CHANGE NO.	REV.	READ/WRITE BOARD		D		CS 5413536-0-1		B	
			SCALE		SHEET 2 OF 2		DIST.			

1977 G.O. EQUIPMENT CLASSIFICATION



REV	DESCRIPTION	DATE
1	OK	1977

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 5411846-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 .
- WIRE ADDS:
- 3-4 SIDE 2-ADD WIRE FROM S3 PIN 2 TO RI ETCH (SOLDER FLAT TO ETCH) (6 PLACES).

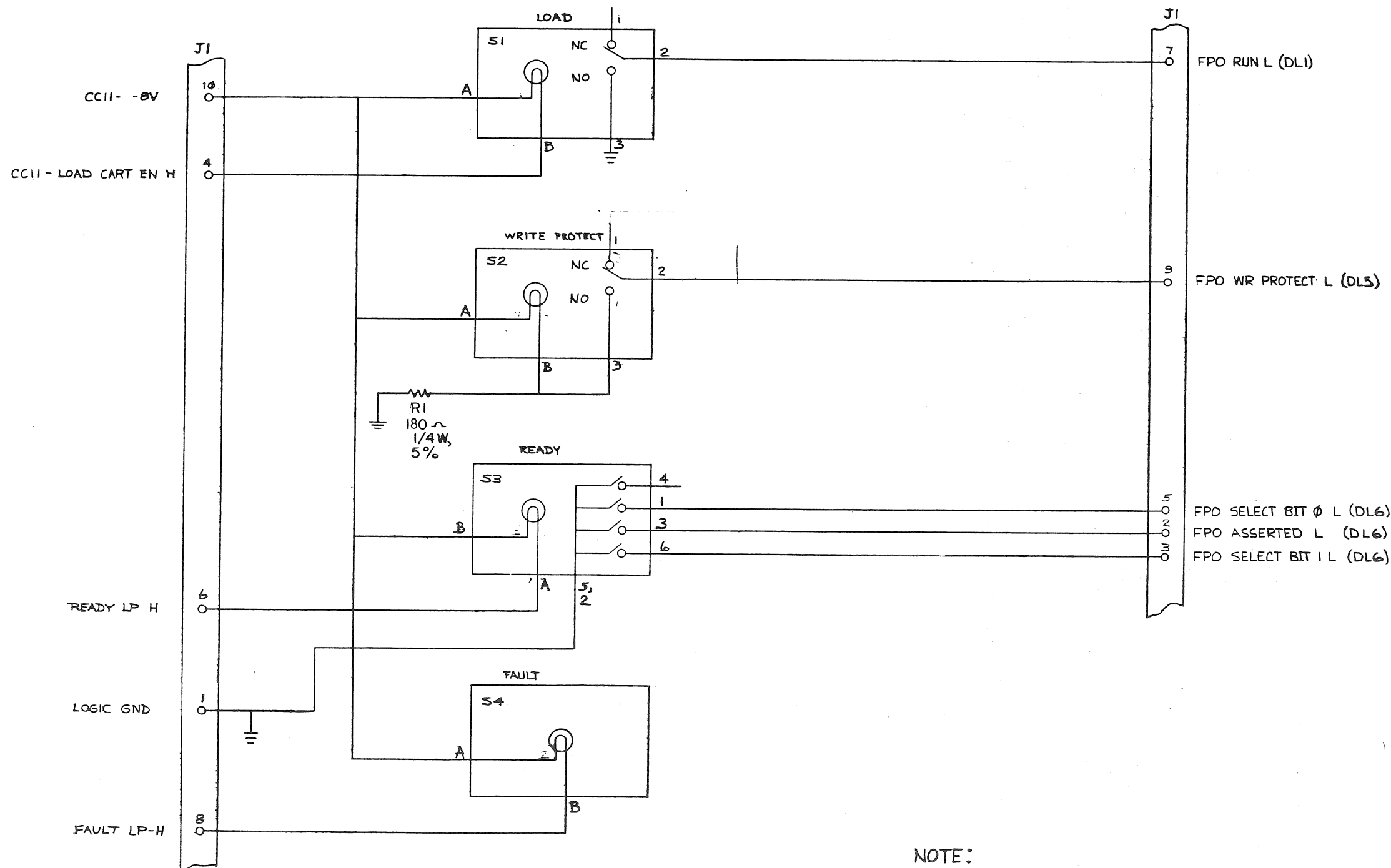
ECO 5411846-CX006:

- 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

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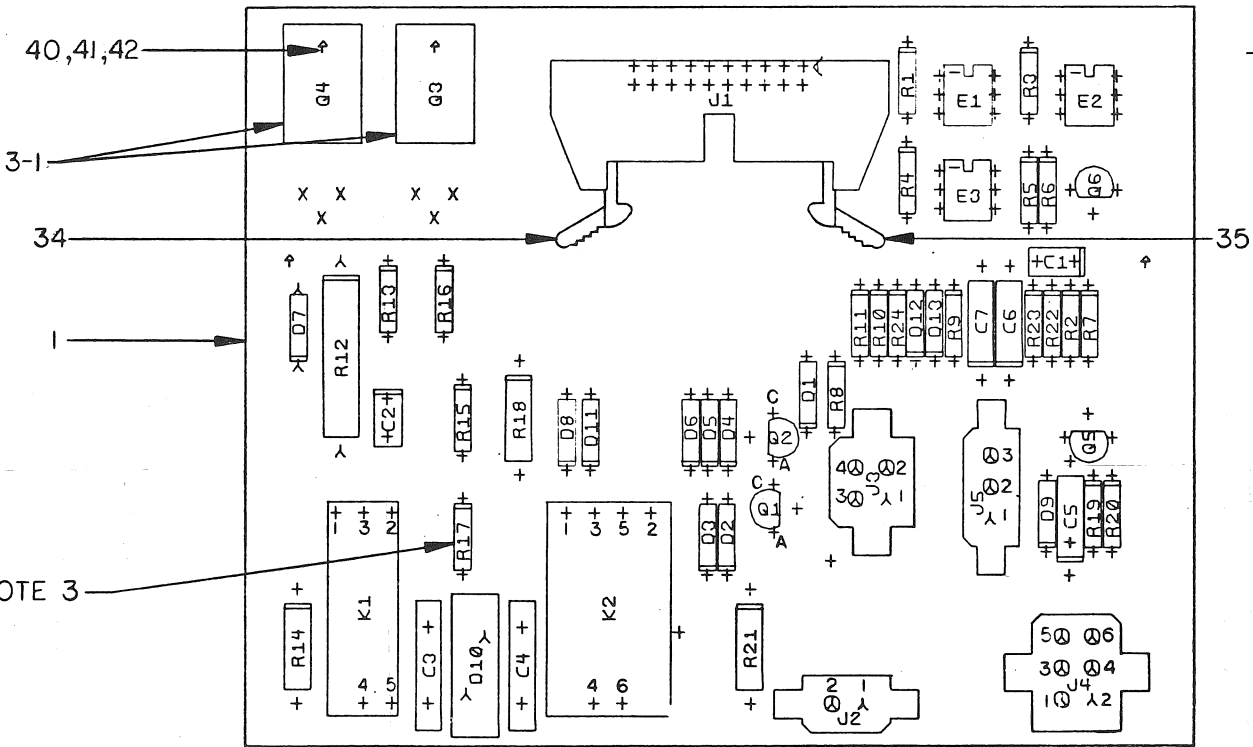
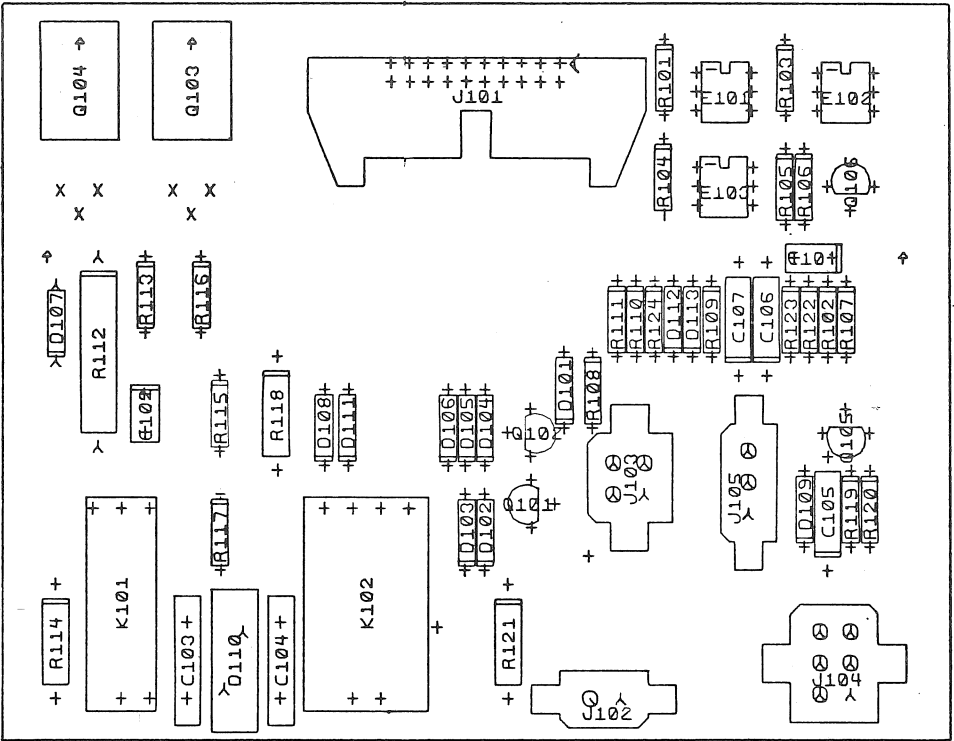
NOTE:

1. ALL LAMPS ARE 6E-73 TYPE

REVISIONS		REV.	DATE
CHK	CHANGE NO.	E	9-2-77
G. REICHENBERG		F	7-2-77
M. ZARICH		H	7-2-77
M. ZARICH		J	7-2-77
M. ZARICH		K	7-2-77

DRN. <i>4-11-77</i>	FIRST USED ON	<i>digital</i>
CHK'D <i>9-11-77</i>	TITLE	FRONT PANEL
ENG. <i>9-11-77</i>	SIZE	D
PROJ. ENG. <i>9-11-77</i>	CODE	CS
PROD. <i>9-11-77</i>	NUMBER	5411846-0-1
NEXT HIGHER ASSY.	DIST.	K
SCALE	REV.	
SHEET	OF	

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:

- 8 HOLES .0465 (+.000,-.0045) MAYNARD ONLY
- U/L APPROVAL REQUIRED
- REWORK INSTRUCTIONS:
 - REMOVE R17 (330Ω, 1/4W, 5%)
 - INSTALL R17 (330Ω, 1/2W, 5%)

STEP	E	↑ Y AXIS	STEP	TIMES
REPEAT	→ X AXIS	STEP	TIMES	

CHK	CHANGE	NO	REV	
5411848-0001	D			
P. BURNELL				
77 REICHENBERG				
W.M. 5411848-				
U.S. CX002				
W.P. BURNELL				
78				
W.M. 5411848-				
18 C2 003				
WAR M ZARICH				
79 REDRAWN				
5 JUNE 80				

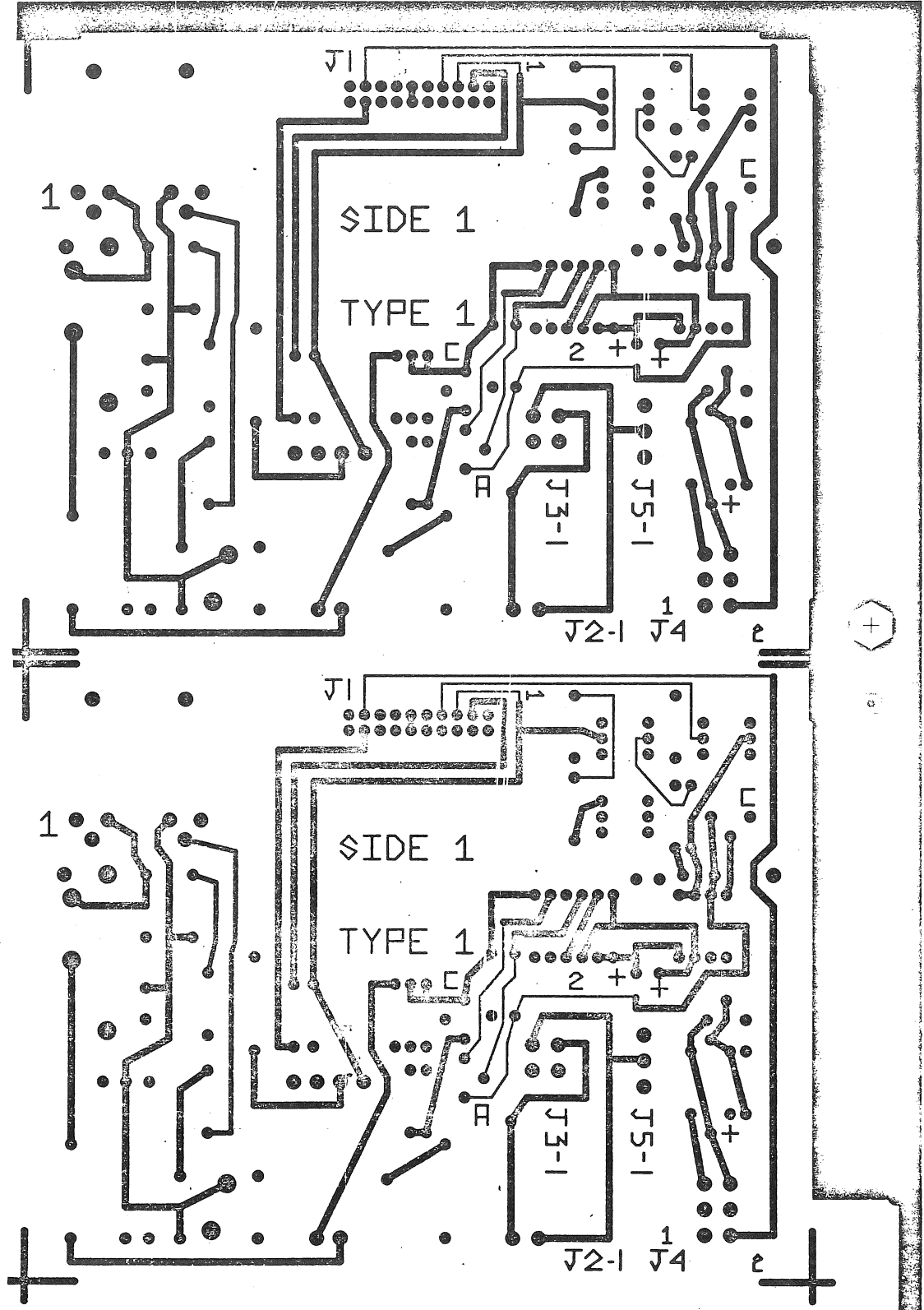
ETCH REV.	E-P2
P.C. DESIGN DATA BASE REV.	E-P2

SIGNATURES	DATE
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

SCALE 2/1	SIZE CODE	NUMBER	REV
SHT. 1 OF 4	0	UA 5411848-0-0	F
NEXT HIGHER ASSY. B-DD-5411848-0			

digital	TITLE	AC SERVO
0	UA 5411848-0-0	F

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U / APPROVAL REQUIRED

VIEWED FROM SIDE 1

REVISIONS		
CHK	CHANGE NO	REV

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

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REWORK INSTRUCTIONS

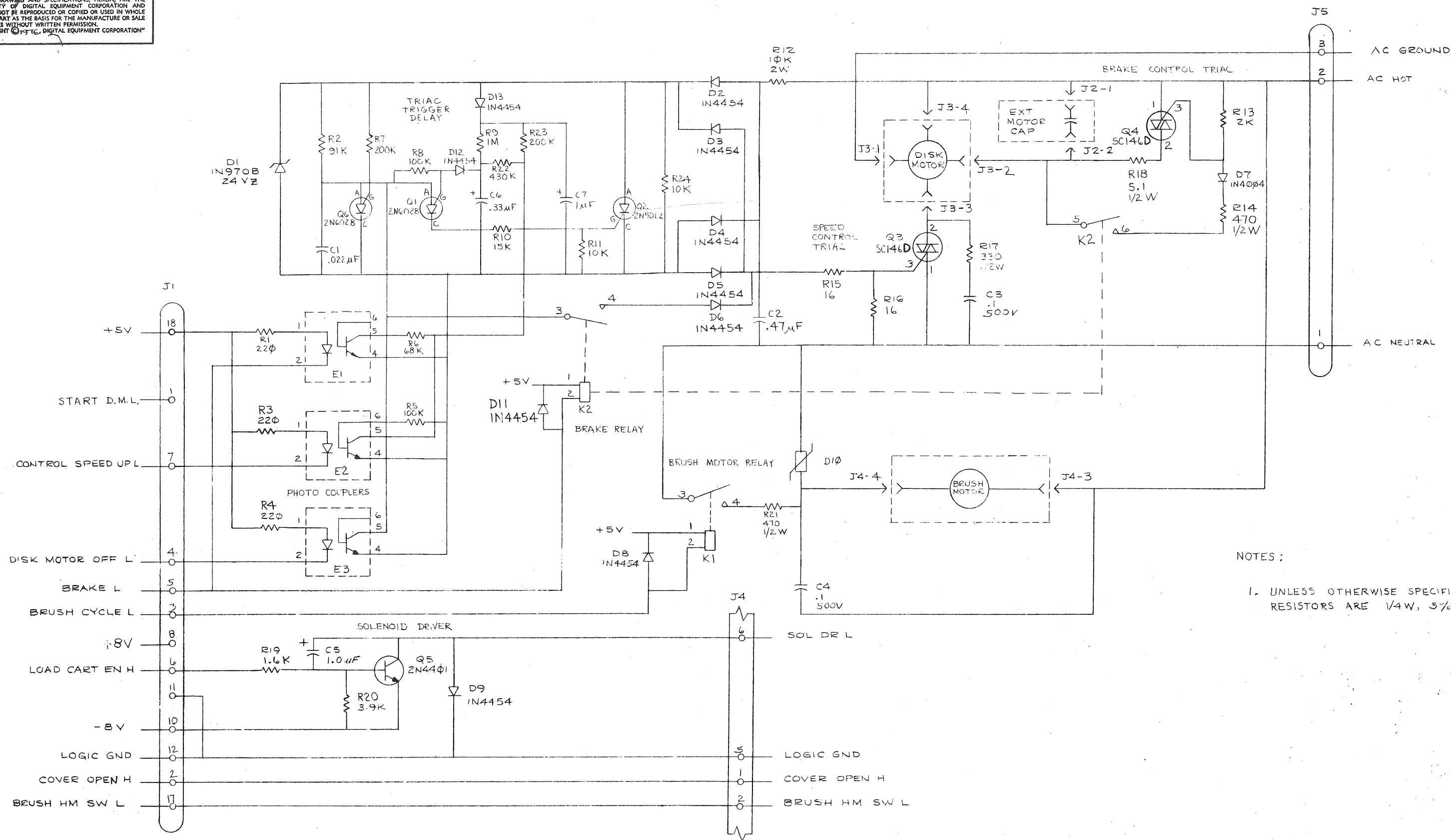
3-1. CHANGE Q3 AND Q4 TO 1510070-00, ITEM 38.

REVISIONS													TITLE		SIZE CODE		NUMBER		REV.	
CHK	CHANGE NO.	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	ETCH CRKT BRD	1	C1
2	2	1011883-00	.022 MFD 50V 1% 67 CER.	1	C2
3	3	1012312-01	.47 MFD 50V X2	1	C3
4	4	1013682-00	1 MFD 500V +80 -20% CER.	2	C3,C4
5	5	1001776-00	1 MFD 35V 10% S.TANT	2	C5,C7
6	6	1110856-00	IN-970B-VZ=24-0 5% .40W Y	1	D1
7	7	1111577-00	IN 4454 TR= 4NS PIV= 50 S	10	D2-D6,D8,D9,D11-D13
8	8	1105796-00	IN 4004 PIV=400 I= 1A D041 SP	1	D7
9	9	1510727-01	OPTO-COUPLED-ISOLATOR	3	E1-E3
10	10	1213917-00	RLY,REED, 5V COIL,SPDT	1	K2
11	11	1213915-00	VF-130A10-VOLT. SUPPRESS-130VAC	1	K1
12	12	1110997-00	HEADER,100 20POS RT ANGLE	1	D10
13	13	1209941-06	HEADER 2POS	1	J1
14	14	1213922-00	HEADER 3POS	1	J2
15	15	1213922-01	HEADER 4POS	1	J3
16	16	1213922-03	HEADER 6POS	1	J4
17	17	1213922-04	HEADER	1	J5
18	18	1300315-00	470 1/2W 5% CC	2	R14,R21
19	19	1300271-00	220 1/4W 5% CC	3	R1,R3,R4
20	20	1311220-00	5.1 1/2W 5% CC	1	R18
21	21	1301327-00	68 K 1/4W 5% CC	1	R6
22	22	1302466-00	100 K 1/4W 5% CC	2	R5,R8
23	23	1300444-00	3.9 K 1/4W 5% CC	1	R20
24	24	1314516-00	200 K 1/4W 5% CC	2	R7,R23
25	25	1300496-00	15 K 1/4W 5% CC	1	R10
26	26	1300479-00	10 K 1/4W 5% CC	2	R11,R24
27	27	1300482-00	10 K 2W 10% CC	1	R12
28	28	1312927-00	16 1/4W 5% CC	2	R15,R16
29	29	1314649-00	430 K 1/4W 5% CC	1	R22
REVISION HISTORY					
BASIC PART NO: 5411848					
ENG'T	ECO NUMBER	REV	SECTION A OF A	DRN:	H. RICHER
1	1	1	1	DATE: 23 MAR 76	
2	2	2	2	DATE: 10 JAN 77	AC-SERVO
3	3	3	3	DATE: 7 JUN 77	
4	4	4	4	DATE: 7 JUN 77	
5	5	5	5	DATE: 7 JUN 77	
6	6	6	6	DATE: 7 JUN 77	
7	7	7	7	DATE: 7 JUN 77	
8	8	8	8	DATE: 7 JUN 77	
9	9	9	9	DATE: 7 JUN 77	
10	10	10	10	DATE: 7 JUN 77	
11	11	11	11	DATE: 7 JUN 77	
12	12	12	12	DATE: 7 JUN 77	
13	13	13	13	DATE: 7 JUN 77	
14	14	14	14	DATE: 7 JUN 77	
15	15	15	15	DATE: 7 JUN 77	
16	16	16	16	DATE: 7 JUN 77	
17	17	17	17	DATE: 7 JUN 77	
18	18	18	18	DATE: 7 JUN 77	
19	19	19	19	DATE: 7 JUN 77	
20	20	20	20	DATE: 7 JUN 77	
21	21	21	21	DATE: 7 JUN 77	
22	22	22	22	DATE: 7 JUN 77	
23	23	23	23	DATE: 7 JUN 77	
24	24	24	24	DATE: 7 JUN 77	
25	25	25	25	DATE: 7 JUN 77	
26	26	26	26	DATE: 7 JUN 77	
27	27	27	27	DATE: 7 JUN 77	
28	28	28	28	DATE: 7 JUN 77	
29	29	29	29	DATE: 7 JUN 77	
30	30	30	30	DATE: 7 JUN 77	
31	31	31	31	DATE: 7 JUN 77	
32	32	32	32	DATE: 7 JUN 77	
33	33	33	33	DATE: 7 JUN 77	
34	34	34	34	DATE: 7 JUN 77	
35	35	35	35	DATE: 7 JUN 77	
36	36	36	36	DATE: 7 JUN 77	
37	37	37	37	DATE: 7 JUN 77	
38	38	38	38	DATE: 7 JUN 77	
39	39	39	39	DATE: 7 JUN 77	
40	40	40	40	DATE: 7 JUN 77	
41	41	41	41	DATE: 7 JUN 77	
42	42	42	42	DATE: 7 JUN 77	
43	43	43	43	DATE: 7 JUN 77	
44	44	44	44	DATE: 7 JUN 77	
45	45	45	45	DATE: 7 JUN 77	
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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 6028 UJT 300MW R67B	2	Q1,Q6
37	37	1110928-00	2N 5062 SCR8100V I=.8A T092	1	Q2
38	38	1510070-00	TRIAC8400V,I> 8A #RCA40669	2	Q3,Q4
39	39	1513489-00	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, 3/16 O.D., X 1/25 I	2	Q3,Q4
43	43	1000002-04	*** THIS ITEM IS NOT USED ***	-	
44	44	1314650-00	.53 MFD 35V 10% .150D S.TA	1	C6
45	45	1314650-00	.91 K 1/4W 5% CC	1	R2
REVISION HISTORY					
BASIC PART NO: 5411848					
ENG'T	ECO NUMBER	REV	SECTION A OF A	DRN:	H. RICHER
1	1	1	1	DATE: 23 MAR 76	
2	2	2	2	DATE: 10 JAN 77	AC-SERVO
3	3	3	3	DATE: 7 JUN 77	
4	4	4	4	DATE: 7 JUN 77	
5	5	5	5	DATE: 7 JUN 77	
6	6	6	6	DATE: 7 JUN 77	
7	7	7	7	DATE: 7 JUN 77	
8	8	8	8	DATE: 7 JUN 77	
9	9	9	9	DATE: 7 JUN 77	
10	10	10	10	DATE: 7 JUN 77	
11	11	11	11	DATE: 7 JUN 77	
12	12	12	12	DATE: 7 JUN 77	
13	13	13	13	DATE: 7 JUN 77	
14	14	14	14	DATE: 7 JUN 77	
15	15	15	15	DATE: 7 JUN 77	
16	16	16	16	DATE: 7 JUN 77	
17	17	17	17	DATE: 7 JUN 77	
18	18	18	18	DATE: 7 JUN 77	
19	19	19	19	DATE: 7 JUN 77	
20	20	20	20	DATE: 7 JUN 77	
21	21	21	21	DATE: 7 JUN 77	
22	22	22	22	DATE: 7 JUN 77	
23	23	23	23	DATE: 7 JUN 77	
24	24	24	24	DATE: 7 JUN 77	
25	25	25	25	DATE: 7 JUN 77	
26	26	26	26	DATE: 7 JUN 77	
27	27	27	27	DATE: 7 JUN 77	
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30	30	30	30	DATE: 7 JUN 77	
31	31	31	31	DATE: 7 JUN 77	
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35	35	35	35	DATE: 7 JUN 77	
36	36	36	36	DATE: 7 JUN 77	
37	37	37	37	DATE: 7 JUN 77	
38	38	38	38	DATE: 7 JUN 77	
39	39	39	39	DATE: 7 JUN 77	
40	40	40	40	DATE: 7 JUN 77	
41	41	41	41	DATE: 7 JUN 77	
42	42	42	42	DATE: 7 JUN 77	
43	43	43	43	DATE: 7 JUN 77	
44	44	44	44	DATE: 7 JUN 77	
45	45	45	45	DATE: 7 JUN 77	
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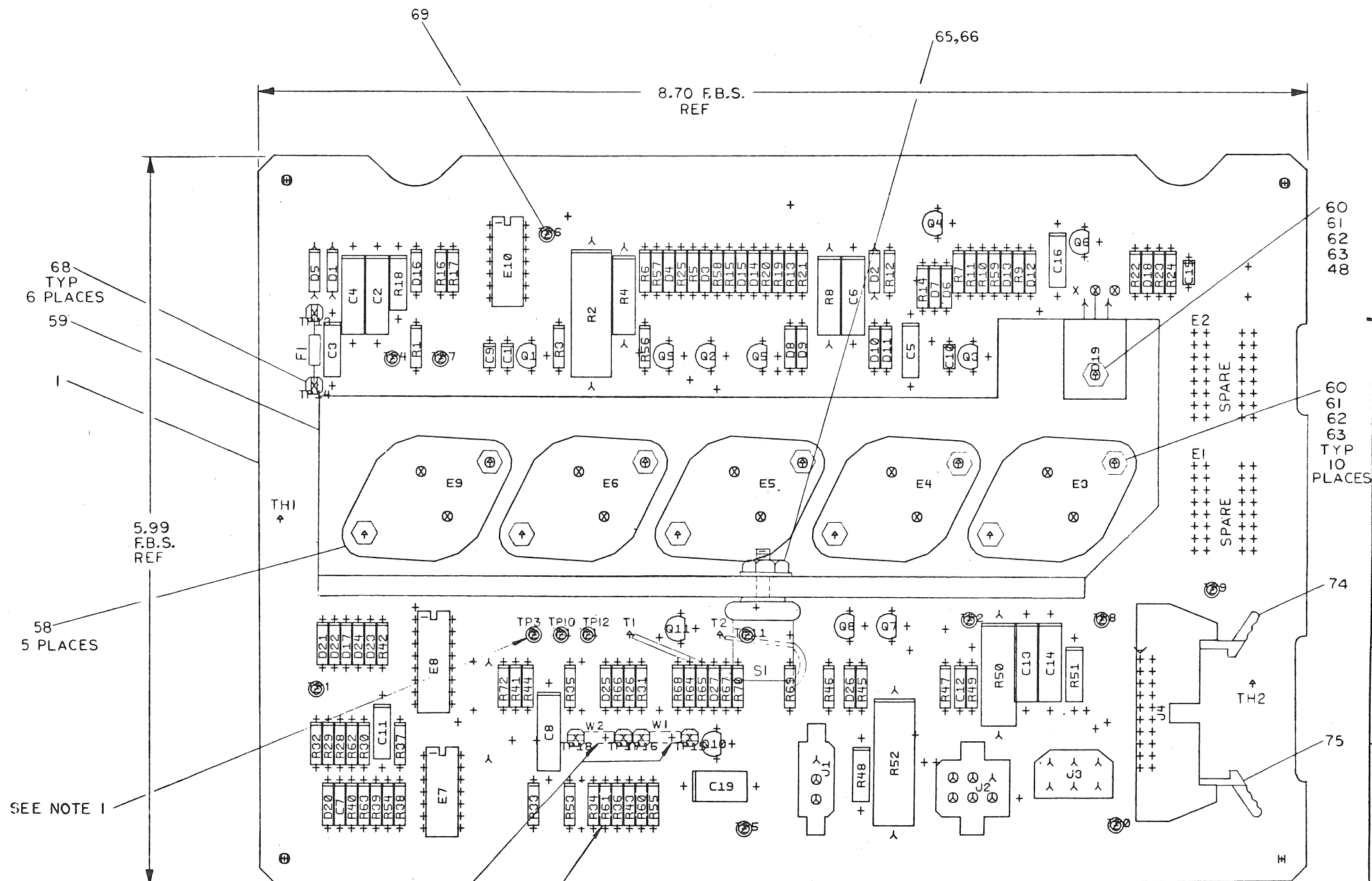
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NOTES:
1. UNLESS OTHERWISE SPECIFIED:
RESISTORS ARE 1/4W, 5%

REV.	CHANGE NO.	DATE	BY	CHK'D	APP'D
1	1	1-14-77	PHYLIS BURNELL	PHYLIS BURNELL	PHYLIS BURNELL
2	2	1-14-77	PHYLIS BURNELL	PHYLIS BURNELL	PHYLIS BURNELL
3	3	1-14-77	PHYLIS BURNELL	PHYLIS BURNELL	PHYLIS BURNELL
4	4	1-14-77	PHYLIS BURNELL	PHYLIS BURNELL	PHYLIS BURNELL
5	5	1-14-77	PHYLIS BURNELL	PHYLIS BURNELL	PHYLIS BURNELL
6	6	1-14-77	PHYLIS BURNELL	PHYLIS BURNELL	PHYLIS BURNELL
7	7	1-14-77	PHYLIS BURNELL	PHYLIS BURNELL	PHYLIS BURNELL
8	8	1-14-77	PHYLIS BURNELL	PHYLIS BURNELL	PHYLIS BURNELL
9	9	1-14-77	PHYLIS BURNELL	PHYLIS BURNELL	PHYLIS BURNELL
10	10	1-14-77	PHYLIS BURNELL	PHYLIS BURNELL	PHYLIS BURNELL
11	11	1-14-77	PHYLIS BURNELL	PHYLIS BURNELL	PHYLIS BURNELL
12	12	1-14-77	PHYLIS BURNELL	PHYLIS BURNELL	PHYLIS BURNELL
13	13	1-14-77	PHYLIS BURNELL	PHYLIS BURNELL	PHYLIS BURNELL
14	14	1-14-77	PHYLIS BURNELL	PHYLIS BURNELL	PHYLIS BURNELL
15	15	1-14-77	PHYLIS BURNELL	PHYLIS BURNELL	PHYLIS BURNELL
16	16	1-14-77	PHYLIS BURNELL	PHYLIS BURNELL	PHYLIS BURNELL
17	17	1-14-77	PHYLIS BURNELL	PHYLIS BURNELL	PHYLIS BURNELL
18	18	1-14-77	PHYLIS BURNELL	PHYLIS BURNELL	PHYLIS BURNELL
19	19	1-14-77	PHYLIS BURNELL	PHYLIS BURNELL	PHYLIS BURNELL
20	20	1-14-77	PHYLIS BURNELL	PHYLIS BURNELL	PHYLIS BURNELL
21	21	1-14-77	PHYLIS BURNELL	PHYLIS BURNELL	PHYLIS BURNELL
22	22	1-14-77	PHYLIS BURNELL	PHYLIS BURNELL	PHYLIS BURNELL
23	23	1-14-77	PHYLIS BURNELL	PHYLIS BURNELL	PHYLIS BURNELL
24	24	1-14-77	PHYLIS BURNELL	PHYLIS BURNELL	PHYLIS BURNELL
25	25	1-14-77	PHYLIS BURNELL	PHYLIS BURNELL	PHYLIS BURNELL
26	26	1-14-77	PHYLIS BURNELL	PHYLIS BURNELL	PHYLIS BURNELL
27	27	1-14-77	PHYLIS BURNELL	PHYLIS BURNELL	PHYLIS BURNELL
28	28	1-14-77	PHYLIS BURNELL	PHYLIS BURNELL	PHYLIS BURNELL
29	29	1-14-77	PHYLIS BURNELL	PHYLIS BURNELL	PHYLIS BURNELL
30	30	1-14-77	PHYLIS BURNELL	PHYLIS BURNELL	PHYLIS BURNELL

DRN. 5411848-0-1	3/16/76	FIRST USED ON	RLO1	TITLE	AC SERVO
CHK'D 0 Burnell	1-14-77	ENG. 0 Burnell	1-14-77	PROJ. ENG. 0 Burnell	1-14-77
PROD. 0 Burnell	1-14-77	NEXT HIGHER ASSY.			
D-UA-5411848-0-0	SIZE	CODE	NUMBER	REV.	
SCALE 1	D	CS	5411848-0-1	1	
SHEET 1	OF 1	DIST.			



NOTES:

1. TP3, TP11, TP12 & TP15 THRU TP19 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
5413534-02001	BOB NOGUCHI				
5413534-02002	M. J. J. J.				
5413534-02003	CX02A				
5413534-02004	M. ZARICH				
5413534-02005	M. J. J. J.				

SEE NOTE 3

SEE NOTE 2

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

SIGNATURES	DATE	digital
ORN. <i>Tom R. Ford</i>	11/1/70	
CHK'D. <i>Bob Noguchi</i>		
ENG. <i>Tom R. Ford</i>		
PROJ. ENG. <i>Tom R. Ford</i>		
PROD. <i>Tom R. Ford</i>	11/1/70	
SCALE 2/1		
SHT. 1 OF 1		
NEXT HIGHER ASSY. E-00-5413534-0		
TITLE DC SERVO & POWER SUPPLY	SIZE CODE D UA	NUMBER 5413534-0-0
		REV C

LINE ITEM DOCUMENT NUMBER PART NUMBER DESCRIPTION QTY PER VARIATION REFERENCE DESIGNATOR

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% C7	1	
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% 25U 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% CC	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	2	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 % RM55D-F10	1	R41
27	27		1305114-00	3.48 K .25 W 1.0 % RM55D-F10	1	R34
28	28		1314763-00	4.12 K .25 W 1.0 % RM55D-F10	1	R36
29	29		1303312-00	10.0 K .25 W 1.0 % RM55D-F10	3	R28,R29,R62

REVISION HISTORY	BASIC PART NO: 5413534	DRN:	JERRY BEST	DATE: 26-JUL-78	TITLE	D I G I T A L
ENG: ECO NUMBER	REV	SECTION A	OF A			
INIT	A	SECTION, VARIATION INDEX	CHK'D:	JERRY BEST	DATE: 26-JUL-78	PARTS LIST
1	1	CAJ 00				
2	2	CBJ				
3	3	CCJ				
4	4	CDJ				
5	5	CEJ				
6	6	CFJ				
7	7	CHJ				
8	8	CJJ				
9	9	CKJ				
10	10	CLJ				
11	11	CMJ				
12	12	CNJ				

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LINE ITEM DOCUMENT NUMBER PART NUMBER DESCRIPTION QTY PER VARIATION REFERENCE DESIGNATOR

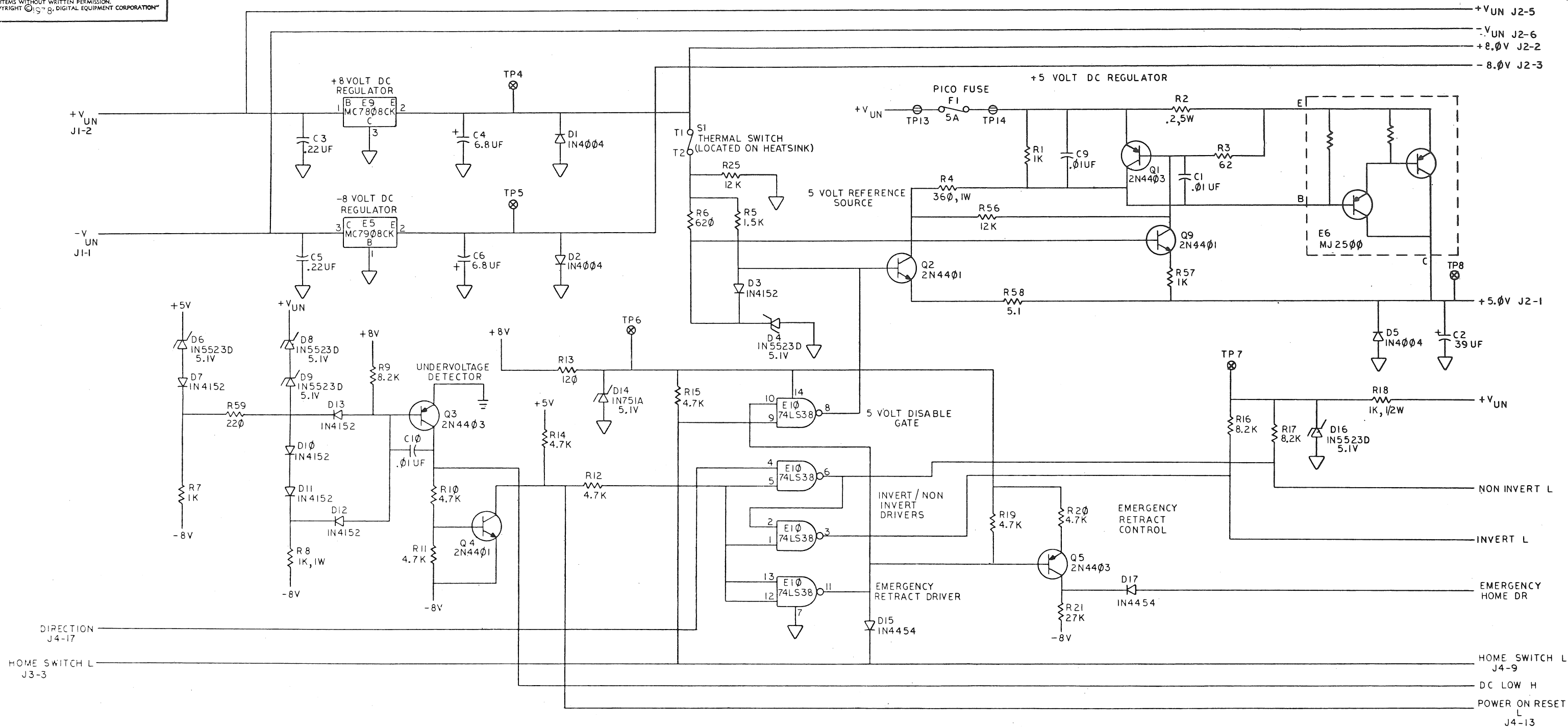
30	30	1312924-00	10.70 K .25 W 1.0 % RM55D-F10	1	R32
31	31	1309412-00	18.20 K .25 W 1.0 % RM55D-F10	1	R33
32	32	1315436-00	52.30 K .25 W 1.0 % RM55D-F10	1	R54
33	33	1304843-00	243.0 K .25 W 1.0 % RM55D-F10	1	R72
34	34	1315437-00	237.0 K .25 W .10% RM55D-F10	1	R38
35	35	1302378-00	51.0 .50 W 5.0 % CC	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	IN 4004 PIV=400 I=1A D041 SP	3	D1,D2,D5
42	42	1113953-00	IN 5523D VZ= 5.1 1% .40W P	8	D4,D6,D8,D9,D16,D18,D21,D22
43	43	1109990-00	IN 751A VZ= 9.1 5% .40W P	2	D23,D24
44	44	1110994-00	IN 751A VZ= 5.1 5% .40W	1	D14
45	45	1114117-00	IN 4152 PIV=450 I=75M	6	D3,D7,D10,D11,D12,D13
46	46	1111577-00	IN 4454 TR= 4NS PIV= 50 S	6	D15,D17,D20,D25-D27
47	47	1513698-00	TRIAC200V,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	HJ2500 PNP 150WC SI 60 5 1K 5A	2	E4,E6
52	52	1511349-00	TIF 640 (OR HJ3000) NPN DARLNGT	1	E3
53	53	1911704-00	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,FAN,PHIL 4-40X 9/16 SS	11	S1
61	61	9006557-00	NUT,KEP , 4-40X 1/4 AF	11	
62	62	9004655-00	WASHER, FLAT, .312 O.D. X .125 I	11	
63	63	9008268-00	COMPOUND, THERMAL JOINT	A/R	
64	64	1210824-00	THERMOSTAT,00215,CG156,SPST,NORM	1	
65	65	9008185-00	NUT,KEP , 6-32X1/4 AF	1	
66	66	9006453-00	WASHER, FLAT, .375 O.D. X .156 I	1	F1
67	67	1205747-00	FUSE, SUB-MINI, 5.000A, 125V, A	1	TP13-TP18
68	68	9006735-00	EYELET, FUNNEL FLANGE, .059 OD X	6	TP0-TP12
69	69	9007791-00	TERM PCB 2POS SOLDER,TURRET	13	J1
70	70	1213922-01	HEADER 3POS	1	J2
71	71	1213922-04	HEADER 6POS	1	J3
72	72	1213900-00	CONN,RCFT 6POS	1	J4
73	73	1209941-06	HEADER,100 20POS RT ANGLE	1	
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 % RM55D-F10	2	R37,R30
77	77	1300250-00	150.0 .25 W 5.0 % CC	1	R42

REVISION HISTORY	TITLE	D I G I T A L	SECTION A	OF A	ISIZE CODE	DOCUMENT NUMBER	REV
1					K	PL 5413534-0-DBF	C

78	1312618-00	16.90 K .25 W 1.0 % RN55D-F10	1	R40
79	1300229-00	100.0 .25 W 5.0 % CC	1	R63
80	1305336-00	*** THIS ITEM IS NOT USED ***	-	R65
81	1309416-00	31.60 K .25 W 1.0 % RN55D-F10	1	C20
82	1002781-00	100 MFD 25V +75-10% AL EL	1	W1.W2
83	9009185-00	JUMPER, WIRE, INSULATED, BLACK B	2	R64
84	1303044-00	100.0 K .25 W 1.0 % RN55D-F10	1	R66
85	1015574-00	*** THIS ITEM IS NOT USED ***	-	R67
86	1315435-00	25.50 K .25 W 1.0 % RN55D-F10	1	C19
87	1312930-00	5.10 K .25 W 5.0 % CC	1	Q10
88	1015520-00	1 MFD 100V 5% MET. MYLR	1	R69
89	1513497-00	2N 5640 FET N CHNXL	1	R70
90	1300479-00	10.0 K .25 W 5.0 % CC	1	
91	1302466-00	100.0 K .25 W 5.0 % CC	1	
92	9105740-55	WIRE(WRAP)30AWG UL1423	A/R	

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

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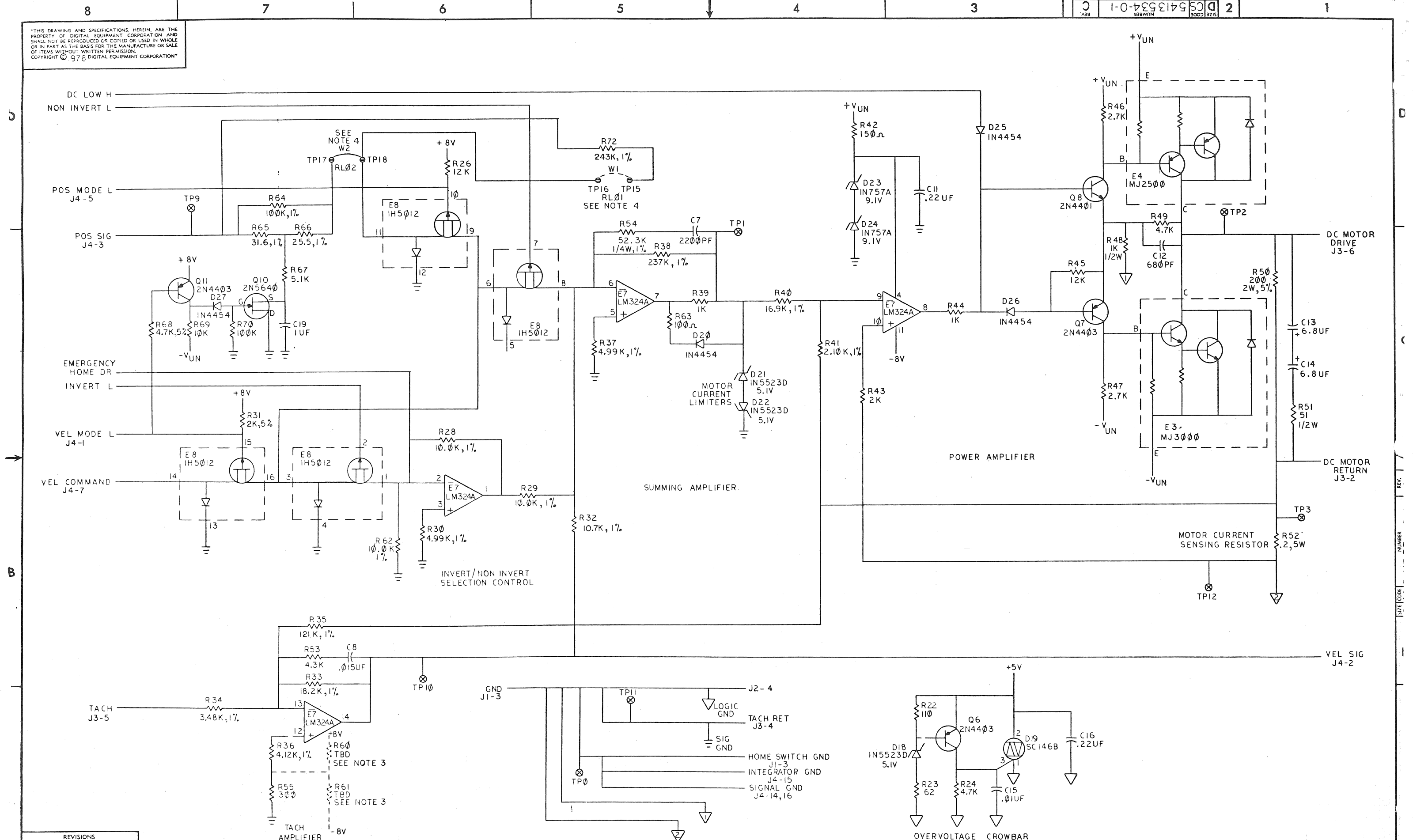
NOTES:

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

DESCRIPTION		DWG./PART NO.		ITEM NO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES					
ANGLES		CLASS OF ACCURACY			
±0° 30'		CHECK ONE			
SURFACE QUALITY		MICROINCHES			
IN		PREFERRED			
VARIATION		MICROINCHES			
THIRD ANGLE PROJECTION		FIRST USED ON			
REMOVE BURRS AND BREAK SHARP CORNERS		TITLE			
DO NOT SCALE DWG		DC SERVO AND POWER SUPPLY			
MATERIAL		D - UA-5413534-0-0		SIZE CODE	
FINISH		SCALE		NUMBER	
		SHEET 1 OF 2		REV.	

REV.	CHANGE NO.	BY	DATE
1	1	BOB NOUCHI	11/1/78
2	2	M. ZARICH	11/2/78

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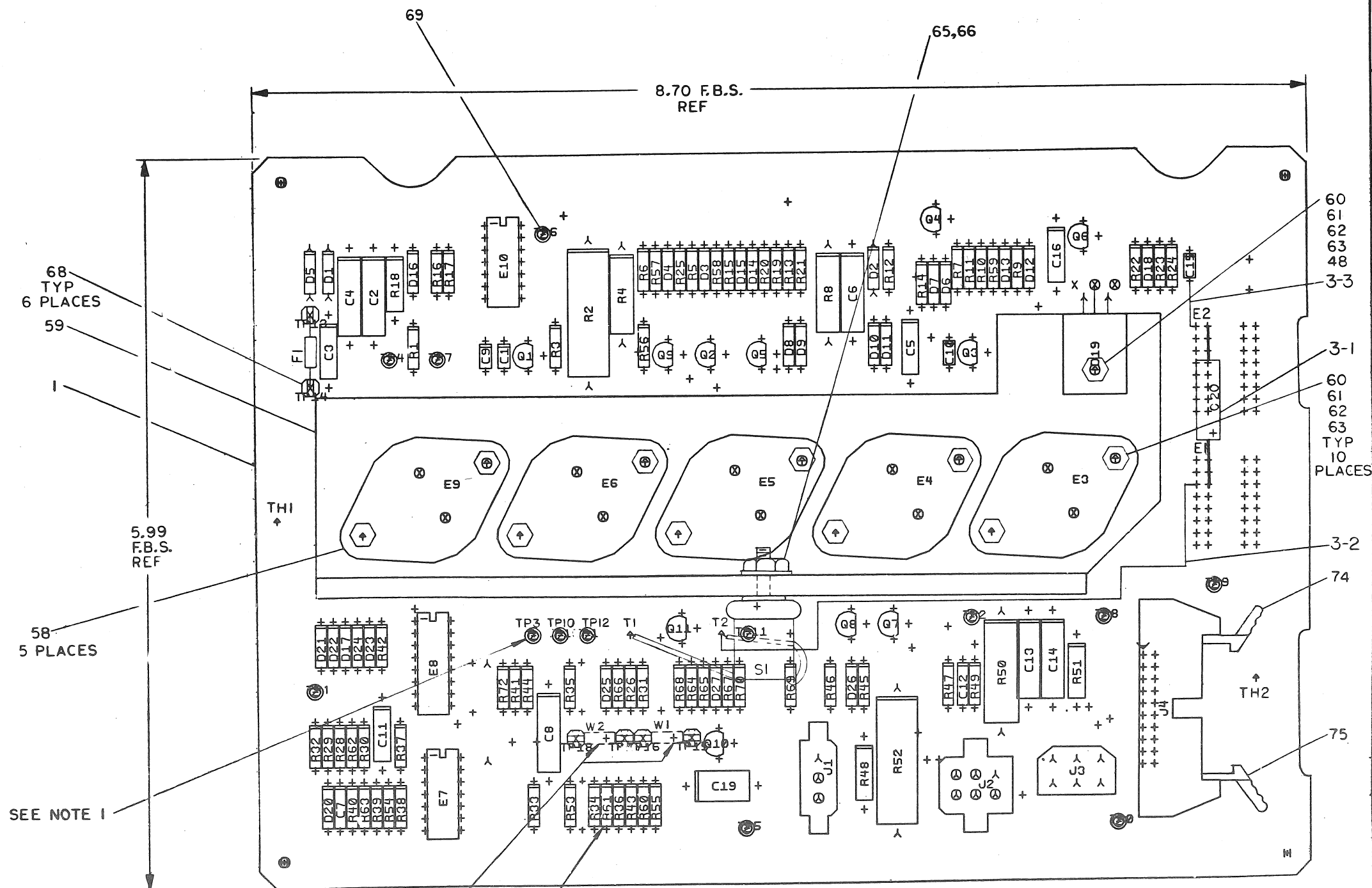


REVISIONS		
CHK	CHANGE NO	REV.

TITLE		DC SERVO AND POWER SUPPLY	SIZE CODE		NUMBER	REV.
SCALE		SHEET 2 OF 2	DIST.		D CS 5413534-0-1	C

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COMPONENT SIDE VIEW



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
1	5413534-02001	B	
2	5413534-02002	C	
3	5413534-02003	D	

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

SIGNATURES	DATE	digital
DRN. Paul R. Kordach	6/5/76	
CHK'D. [Signature]	6/5/76	
ENG. [Signature]	6/5/76	
PROJ. ENG. [Signature]	6/5/76	
PROD. [Signature]	6/5/76	
SCALE 2/1		
SHT. 1 OF 2		
NEXT HIGHER ASSY. B-DD-5413534-0		

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.

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

REVISION HISTORY		BASIC PART NO: 5413534		URN:		DATE: 26-JUL-78		D I G I T A L	
ENG	ECO NUMBER	REV	SECTION A	OF A	JERRY BEST	DATE: 26-JUL-78	PARTS LIST		
	INIT		SECTION, VARIATION INDEX		CHK'D:	DATE: 26-JUL-78	TITLE		
BN	5413534-CZ001	A	[A] 00		JERRY BEST		D.C. SERVO AND POWER SUPPLY		
MZ	5413534-CX003	B	[B]						
MZ	5413534-CX004	C	[C]		DES.ENG: R. NOGUCHI	DATE:			
		D	[D]						
			[E]				DOCUMENT NUMBER		
			[F]		RESP.ENG.: R. NOGUCHI	DATE: 26-JUL-78	SIZE CODE NUMBER		
			[G]				REV		
			[H]				K PL 5413534-0-DBP D		
			[I]		IMG.ENG.: P. CHURCH	DATE:			
			[J]						
			[K]		ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	FILE NAME:		
			[L]		ID-UA-5413534-0-0	RL02	Z0494D,PLS 20		
			[M]						
			[N]						

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LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
30		1312924-00	10.70 K .25 W 1.0 % RN55D-F10	1	R32
31		1309412-00	18.20 K .25 W 1.0 % RN55D-F10	1	R33
32		1315436-00	52.30 K .25 W 1.0 % RN55D-F10	1	R54
33		1304843-00	243.0 K .25 W 1.0 % RN55D-F10	1	R72
34		1315437-00	237.0 K .25 W .10% RN55D-F10	1	R38
35		1303378-00	51.0 K .50 W 5.0 % CC	1	R51
36		1300364-00	1.0 K .50 W 5.0 % CC	2	R18,R48
37		1314068-00	360.0 K 1.0 W 5.0 % CC	1	R4
38		1300368-00	1.0 K 1.0 W 5.0 % CC	1	R8
39		1301494-00	200.0 K 2.0 W 5.0 % CC	1	R50
40		1313358-00	.20 5.0 W 3.0 % WW	2	R3,R52
41		1105796-00	IN 4004 PIV=400 I= 1A D041 SP	3	D1,D2,D5
42		1113953-00	IN 5523D VZ= 5.1 1%	8	D4,D6,D8,D9,D16,D18,D21,D22
43		1109990-00	IN 757A VZ= 9.1 5% .40W P	2	D23,D24
44		1110994-00	IN 751A VZ= 5.1 5% .40W	1	D14
45		1114117-00	IN 4152 PIV=40 I=75	6	D3,D7,D10,D11,D12,D13
46		1111577-00	IN 4454 TR= 4NS PIV= 50 S	6	D15,D17,D20,D25-D27
47		1513698-00	TRIACQ200V,I:14A	1	D19
48		9009597-00	INSULATOR, THERMA-FILM	1	
49		1513489-00	2N 4401 NPN 350MW SI 40 20	4	Q2,Q4,Q8,Q9
50		1513490-00	2N 4403 PNP 350MW SI-40 30	6	Q1,Q3,Q5-Q7,Q11
51		1511282-00	MJ2500 PNP 150WC SI 60 5 1K 5A	2	E4,E6
52		1511349-00	TIP 640 (OR MJ3000) NPN DARLNGT	1	E3
53		1911706-00	5012 ANALOG SWITCH,ACHNL	1	E8
54		1912818-00	LS38 NAND BUFFER-QUAD 2IN	1	E10
55		1912107-01	324ANOP AMP,QUAD	1	E7
56		1913695-00	7808 VOLT REG,FX +8V	1	E9
57		1913694-00	7908 VOLT REG,FX -8V	1	E5
58		9008419-00	WASHER, FLAT, THERMAFILM .002THK	5	
59		7418595-00	HEATSINK ASSEMBLY	1	
60		9008033-01	SCREW,PAN,PHIL 4-40X 9/16 SS	11	
61		9004557-00	NUT,KEP , 4-40X 1/4 AF	11	
62		9006655-00	WASHER, FLAT, .312 O.D. X .125 I	11	
63		9008268-00	COMPOUND, THERMAL JOINT	A/R	
64		1210824-00	THERMOSTAT,00215,C0156,SPST,NORM	1	S1
65		9008185-00	NUT,KEP , 6-32X1/4 AF	1	
66		9006653-00	WASHER, FLAT, .375 O.D. X .156 I	1	
67		1205747-00	FUSE, SUR-MINI, 5.000A, 125V, A	1	F1
68		9006735-00	EYELET, FUNNEL FLANGE, .059 OD X	6	TP13-TP18
69		9007791-00	TERM PCB 2POS SOLDER,TURRET	13	TPO-TP12
70		1213922-01	HEADER 3POS	1	J1
71		1213922-04	HEADER 6POS	1	J2
72		1213900-00	CONN,RCPT 6POS	1	J3
73		1209941-06	HEADER,100 20POS RT ANGLE	1	J4
74		1209941-04	HEADER RT ANGLE,RIGHT	1	
75		1209941-03	HEADER RT ANGLE LEFT L	1	
76		1305324-00	4.99 K .25 W 1.0 % RN55D-F10	2	R37,R30
77		1300250-00	150.0 .25 W 5.0 % CC	1	R42

LINE ITEM DOCUMENT NUMBER

PART NUMBER

DESCRIPTION

QTY PER VARIATION

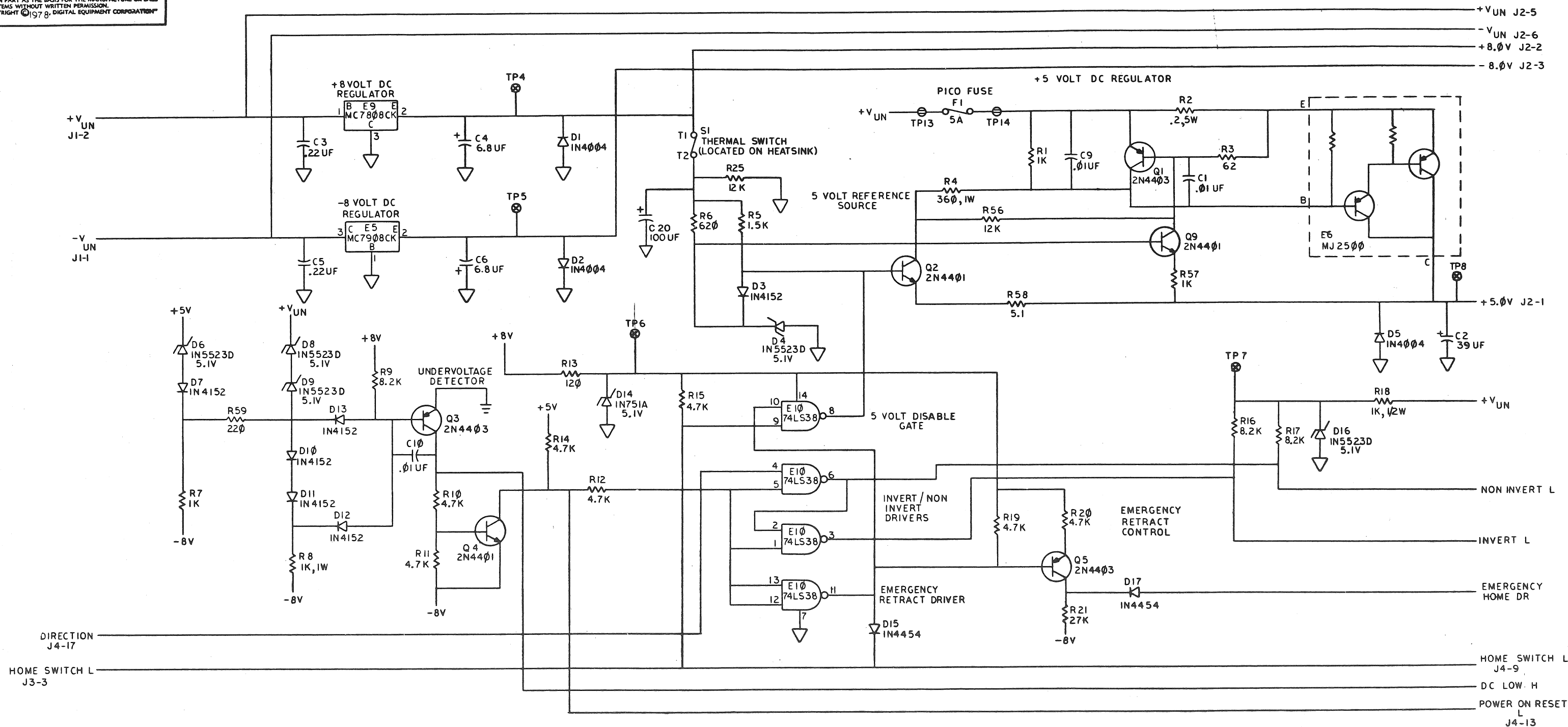
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REFERENCE DESIGNATOR

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

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

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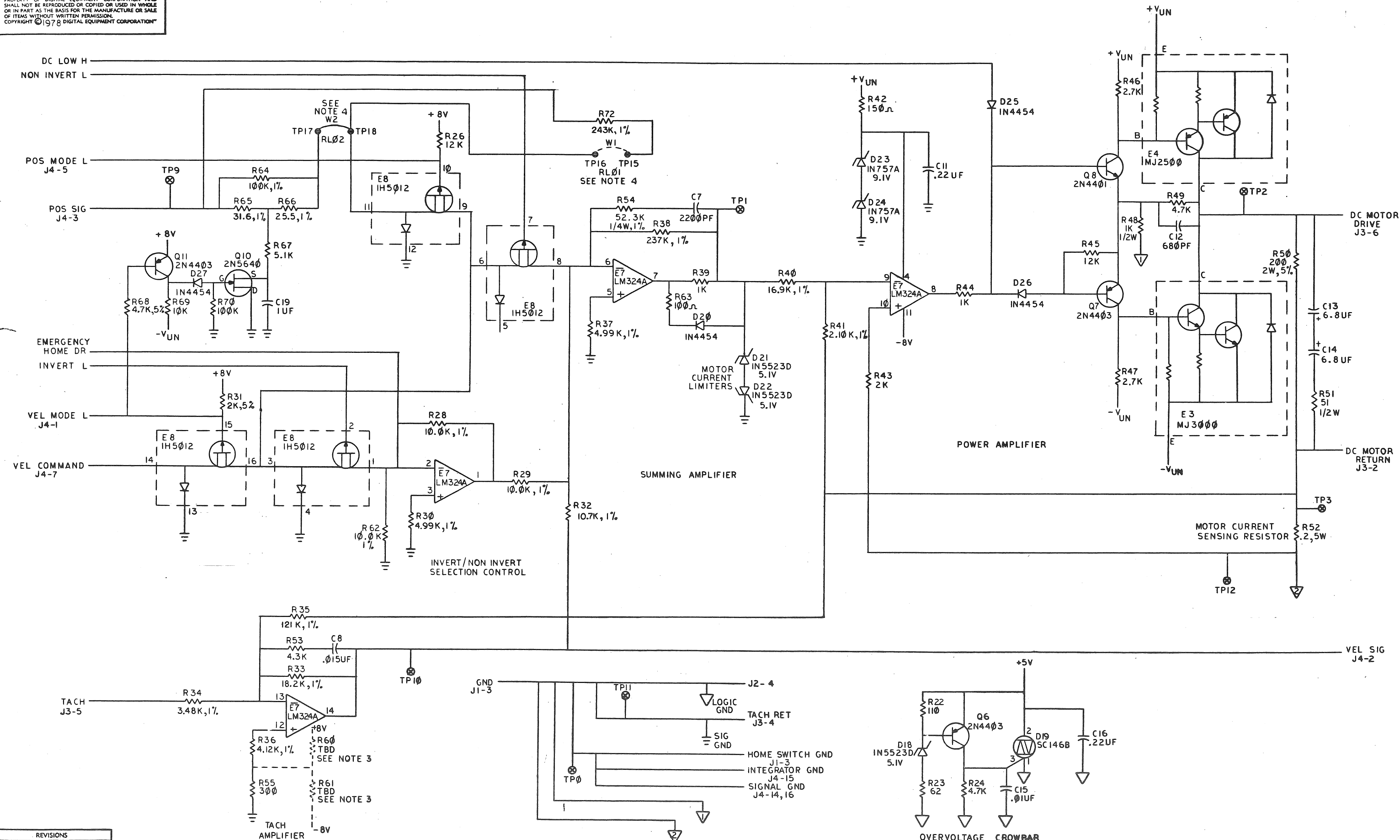
NOTES:

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

QUANTITY & VARIATION		DESCRIPTION		DWG./PART NO.		ITEM NO.	
THIRD ANGLE PROJECTION		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		D-5413534-0-1		1	
REMOVE BURRS AND BREAK SHARP CORNERS		CLASS OF ACCURACY (CHECK ONE)		OVER 0.2 TO 1.2		OVER 1.2 TO 4.0	
DO NOT SCALE DWG		MEDIUM		±.004		±.008	
MATERIAL		PREFERRED		±.012		±.016	
FINISH		MICROINCHES		±.012		±.016	
DRN: R. H. Hildner		8/15/78		FIRST USED ON		digital	
CHK'D: J. H. Hildner		8/15/78		TITLE		DC SERVO AND POWER SUPPLY	
PROJ. ENG: J. H. Hildner		8/15/78		SIZE		D	
PROD. J. H. Hildner		8/15/78		CODE		CS 5413534-0-1	
NEXT HIGHER ASSY.		D-5413534-0-0		NUMBER		1	
SCALE		++		REV.		D	
SHEET		1 OF 2		DIST.		1	

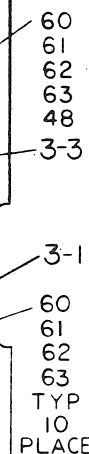
REV.	CHANGE NO.	BY	DATE
B	5413534-CZ001	BOB. NOGUCHI	8/15/78
C	5413534-CX02A	M. ZARICH	8/15/78
D	5413534-CX003	M. ZARICH	8/15/78

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TITLE		SIZE CODE	NUMBER	REV.
DC SERVO AND POWER SUPPLY		D	CS 5413534-0-1	D
SCALE		SHEET		
		2 OF 2		

COMPONENT SIDE VIEW



CHK#	CHANGE NO	REV
5413534-CZ001 BOB, NIOGUCHI M. Zarich	B	
5413531- C.KP2A M. ZARICH M. Zarich	C	
5413534- CX0003 M. ZARICH M. Zarich	D	
5413534- CX0004 DB, 17 JUN 81 M. ZARICH M. Zarich	E	

[illegible]

SIGNATURES		DATE	digital			
DRN <i>Paul A. Kunkel</i>		6/5/78				
CHK'D <i>Paul A. Kunkel</i>		6/5/78				
ENG. <i>Paul A. Kunkel</i>		6/5/78	TITLE DC SERVO & POWER SUPPLY			
PROJ. ENG. <i>Paul A. Kunkel</i>		6/5/78				
PROD. <i>Paul A. Kunkel</i>		6/5/78				
SCALE 2/1		SIZE CODE				
SHT. 1 OF 2		D UA	5413534-0-0	E		
NEXT HIGHER ASSY. R-DD-5413534-0						

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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.
D	UA	5413534-0-0	E
SCALE --		SHEET 2 OF 2	

D

C

B

A

REV E

NUMBER 5413534-0-0

SIZE CODE D UA

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
1	D-MD-5013533-0-0	5013533-00	ETCHED CIRCUIT BOARD	1	
2		1013466-08	680.0 MMF 50V 10% X7R CER	1	C12
3		1016009-00	2200.0 MMF 50V 5% X7R CER	1	C7
4		1001610-00	.01 MFD 50V +80-20% Z5U CER	4	C1,C9,C10,C15
5		1002630-00	.015 MFD 100V 10% MYLR	1	C8
6		1013466-11	.22 MFD 50V +80-20% Z5U CER	4	C3,C5,C11,C16
7		1005306-00	*** THIS ITEM IS NOT USED ***	-	
8		1000076-00	*** THIS ITEM IS NOT USED ***	-	
9		1309422-00	5.10 .25 W 5.0 % CC	1	R58
10		1312929-00	62.0 .25 W 5.0 % CC	2	R3,R23
11		1311523-00	110.0 .25 W 5.0 % CC	1	R22
12		1300247-00	120.0 .25 W 5.0 % CC	1	R13
13		1300271-00	220.0 .25 W 5.0 % CC	1	R59
14		1301425-00	300.0 .25 W 5.0 % CC	1	R55
15		1303178-00	620.0 .25 W 5.0 % CC	1	R6
16		1300365-00	1.0 K .25 W 5.0 % CC	5	R1,R7,R39,R44,R57
17		1300391-00	1.50 K .25 W 5.0 % CC	1	R5
18		1302388-00	2.0 K .25 W 5.0 % CC	2	R31,R43
19		1300426-00	2.70 K .25 W 5.0 % CC	2	R46,R47
20		1302389-00	4.30 K .25 W 5.0 % CC	1	R53
21		1300447-00	4.70 K .25 W 5.0 % CC	10	R10-R12,R14,R15,R19,R20,R24,R49, CONT R68
22		1303179-00	8.20 K .25 W 5.0 % CC	3	R9,R16,R17
23		1300488-00	12.0 K .25 W 5.0 % CC	4	R25,R26,R45,R56
24		1305346-00	27.0 K .25 W 5.0 % CC	1	R21
25		1305131-00	*** THIS ITEM IS NOT USED ***	-	
26		1312923-00	2.10 K .25 W 1.0 % RN55D-F10	1	R41
27		1305114-00	3.48 K .25 W 1.0 % RN55D-F10	1	R34
28		1314763-00	4.12 K .25 W 1.0 % RN55D-F10	1	R36
29		1303312-00	10.0 K .25 W 1.0 % RN55D-F10	3	R28,R29,R62
REVISION HISTORY					
ENG	ECO NUMBER	REV	SECTION A OF A	DATE: 26-JUL-78	D I G I T A L
INIT					
BN	5413534-CZ001	A	SECTION, VARIATION INDEX	DATE: 26-JUL-78	PARTS LIST
IMZ	5413534-CX003	B	CAJ 00		D.C. SERVO AND POWER SUPPLY
IMZ	5413534-CX004	C			
IMZ	5413534-CX004	D			
IMZ	5413534-CX004	E			
IMZ	5413534-CX004	F			
IMZ	5413534-CX004	G			
IMZ	5413534-CX004	H			
IMZ	5413534-CX004	I			
IMZ	5413534-CX004	J			
IMZ	5413534-CX004	K			
IMZ	5413534-CX004	L			
IMZ	5413534-CX004	M			
IMZ	5413534-CX004	N			
IMZ	5413534-CX004	O			
IMZ	5413534-CX004	P			
IMZ	5413534-CX004	Q			
IMZ	5413534-CX004	R			
IMZ	5413534-CX004	S			
IMZ	5413534-CX004	T			
IMZ	5413534-CX004	U			
IMZ	5413534-CX004	V			
IMZ	5413534-CX004	W			
IMZ	5413534-CX004	X			
IMZ	5413534-CX004	Y			
IMZ	5413534-CX004	Z			
IMZ	5413534-CX004	AA			
IMZ	5413534-CX004	AB			
IMZ	5413534-CX004	AC			
IMZ	5413534-CX004	AD			
IMZ	5413534-CX004	AE			
IMZ	5413534-CX004	AF			
IMZ	5413534-CX004	AG			
IMZ	5413534-CX004	AH			
IMZ	5413534-CX004	AI			
IMZ	5413534-CX004	AJ			
IMZ	5413534-CX004	AK			
IMZ	5413534-CX004	AL			
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IMZ	5413534-CX004	AQ			
IMZ	5413534-CX004	AR			
IMZ	5413534-CX004	AS			
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IMZ	5413534-CX004	AU			
IMZ	5413534-CX004	AV			
IMZ	5413534-CX004	AW			
IMZ	5413534-CX004	AX			
IMZ	5413534-CX004	AY			
IMZ	5413534-CX004	AZ			
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IMZ</					

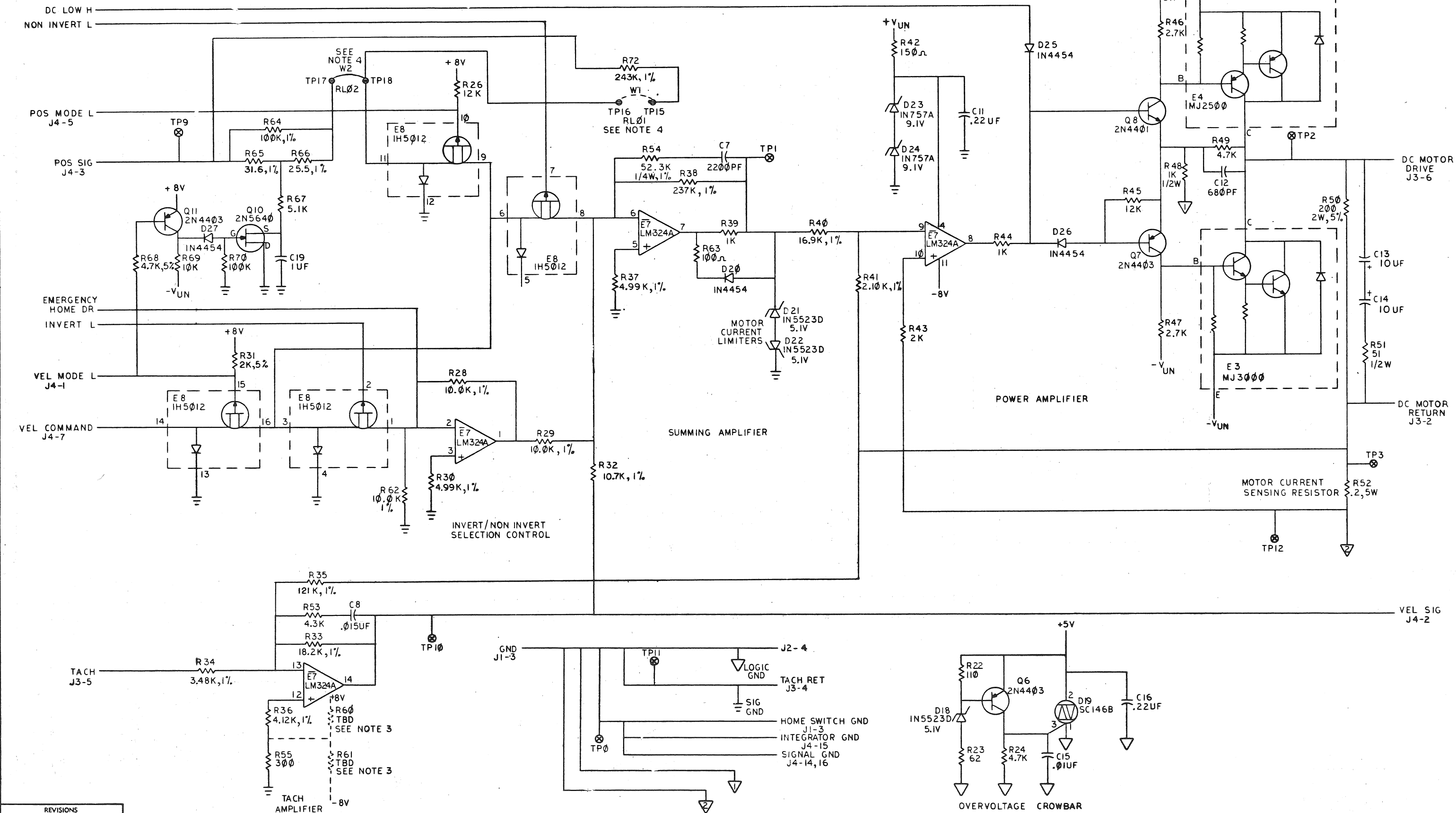
1



REV.

A1

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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE	CODE	NUMBER	REV.
DC SERVO AND POWER SUPPLY		D	CS	5413534-0-1	E
SCALE		SHEET 2 OF 2		DIST.	

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

COMPONENT ADDS:
5-5 R96,(3.65K).
5-6 R97,(30I).
5-7 R99,(3.65K).
5-8 R100,(30I).

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.

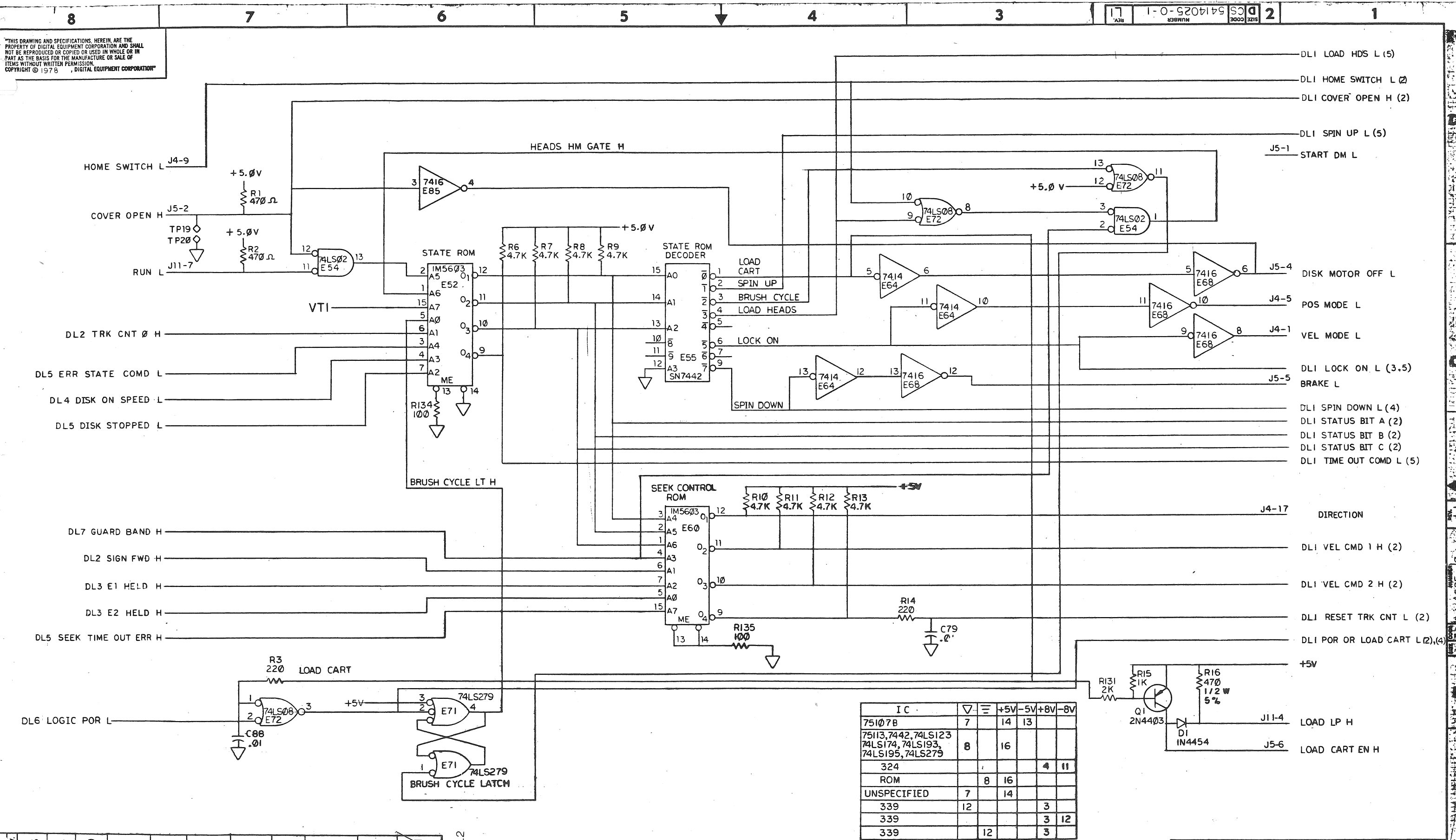
DOCUMENT NUMBER			REV.
SIZE	CODE	NUMBER	
D	UA	5414025-0-0	LI
SCALE		SHEET	OF
NONE		2	2

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	E83
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 CMPRTR,QUAD	3	E5,E36,E56
80	80		1912541-00	79M05 VOLT REG,FIX	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						
91	91		1912829-00	LS86 X-OR GATE-QUAD 2IN	3	E75
92	92		1912837-00	LS123 ONE SHOT-DUAL,RETRIG	1	E51,E66,E78
93	93		1912854-00	LS193 COUNTER,SYNCHR,ARIT,	3	E50
94	94		1912855-00	LS195 SHIFT REG.,,ARIT PARA	5	E27,E28,E43
95	95		1912857-00	LS197 COUNTER,RINARY,PRESET	4	E19-E22,E25
96	96		1912864-00	LS279 LATCH,QUAD-S-R	6	E4,E8,E13,E74
97	97		1913414-00	LS14 INVERTER GATE-HEX SC	2	E6,E12,E29,E33,E58,E71
98	98		1914156-00	393 VOLT.COMPARATOR DUAL	1	E40,E48
99	99		23368A2-00	A2-02,A2-04	1	E53
100	100		23371A2-00	A2-02,A2-04	1	E52
101	101		23444A2-00	A2-02,A2-04	1	E60
102	102		23445A2-00	A2-02,A2-04	1	E70
103	103		9007201-00	TRANSIPADS #10253	1	E32
104	104		9007791-00	TERM PCB 2POS SOLDER,TURRET	15	TP1-TP4,TP6-TP16
105	105		9009185-00	JUMPER, WIRE, INSULATED, BLACK B	1	W1
106	106		9105740-55	WIRE(WRAP)30AWG	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	TITLE	DRIVE LOGIC	SECTION A	OF A

SIZE	CODE	DOCUMENT NUMBER	REV
K	PL	5414025-O-DRP	H

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IC	7	8	12	14	16	18	20
751078	7			14	13		
75113, 7442, 74LS123							
74LS174, 74LS193, 74LS195, 74LS279	8			16			
324						4	11
ROM		8		16			
UNSPECIFIED	7			14			
339		12				3	
339						3	12
339		12				3	

VALID FOR REV L1 AND L2

REV.	B	C	D	E	F	G	H	I	J	K	L	M
CHG	5414025-CX001	5414025-CX002	5414025-CX003	5414025-CX004	5414025-CX005	5414025-CX006	5414025-CX007	5414025-CX008	5414025-CX009	5414025-CX010	5414025-CX011	5414025-CX012
BY	M. BROWN	M. BROWN	M. BROWN	M. BROWN	M. BROWN	M. BROWN	M. BROWN	M. BROWN	M. BROWN	M. BROWN	M. BROWN	M. BROWN
DATE	11/1/78	11/1/78	11/1/78	11/1/78	11/1/78	11/1/78	11/1/78	11/1/78	11/1/78	11/1/78	11/1/78	11/1/78
CHK	5414025-CX001	5414025-CX002	5414025-CX003	5414025-CX004	5414025-CX005	5414025-CX006	5414025-CX007	5414025-CX008	5414025-CX009	5414025-CX010	5414025-CX011	5414025-CX012
BY	M. BROWN	M. BROWN	M. BROWN	M. BROWN	M. BROWN	M. BROWN	M. BROWN	M. BROWN	M. BROWN	M. BROWN	M. BROWN	M. BROWN
DATE	11/1/78	11/1/78	11/1/78	11/1/78	11/1/78	11/1/78	11/1/78	11/1/78	11/1/78	11/1/78	11/1/78	11/1/78

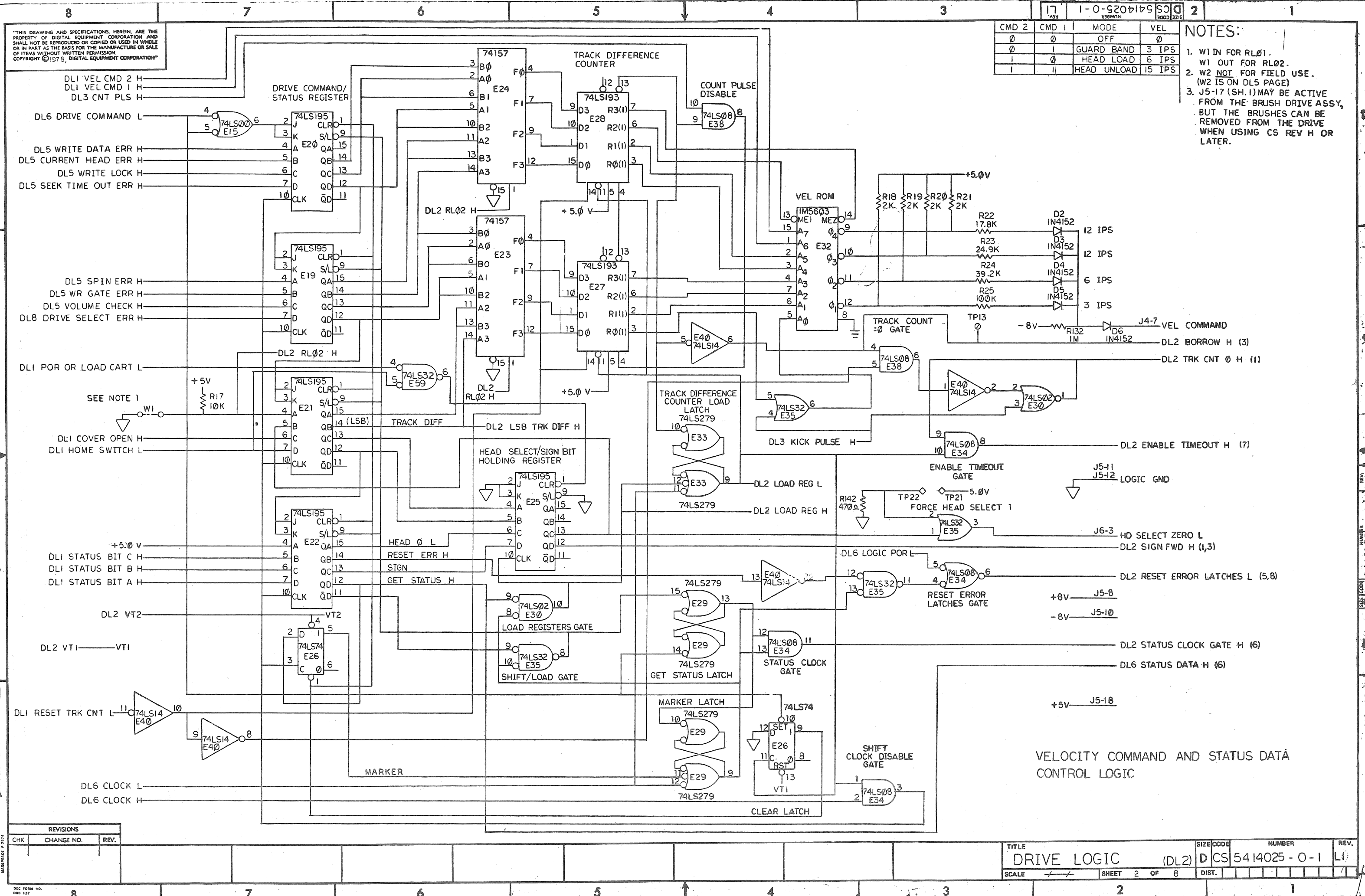
DRN. 7/1/78	5/1/78	FIRST USED ON	
CHK'D W. 1/1/78	3/1/78	TITLE	DRIVE LOGIC (STATE CONTROL LOGIC) (DLI)
ENG. 1/1/78	5/1/78	SIZE	D
PROJ. ENG. 1/1/78	5/1/78	CODE	CS 5414025-0-1
PROD.	5/1/78	NUMBER	1
NEXT HIGHER ASSY.		SCALE	1 OF 8
B-DD-5414025-C		SHEET	1 OF 8
SHEET 1 OF 8		DIST.	

DI 6 CLOCK H

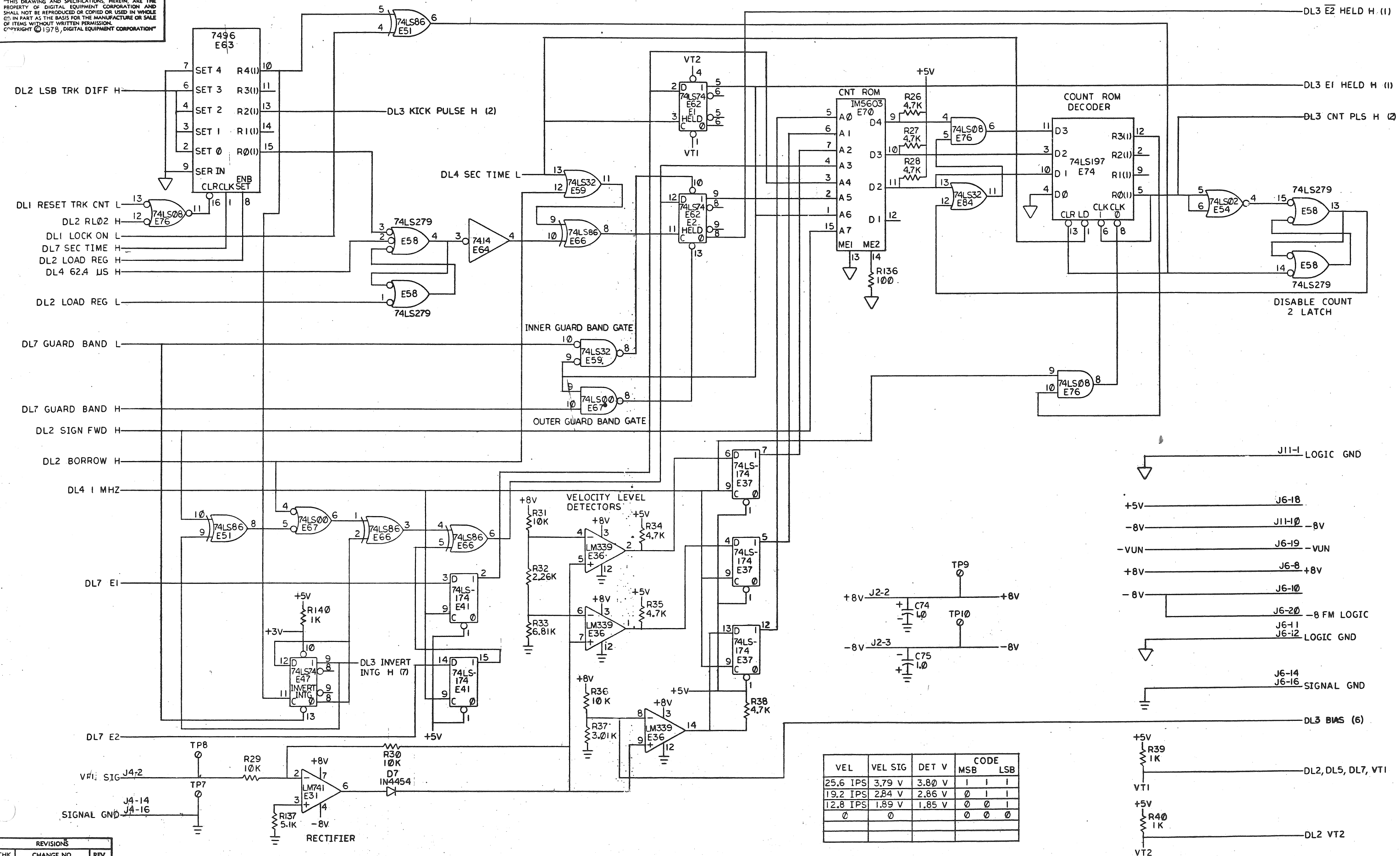
MARKER

NOTES:

1. W1 IN FOR RL01.
W1 OUT FOR RL02.
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.



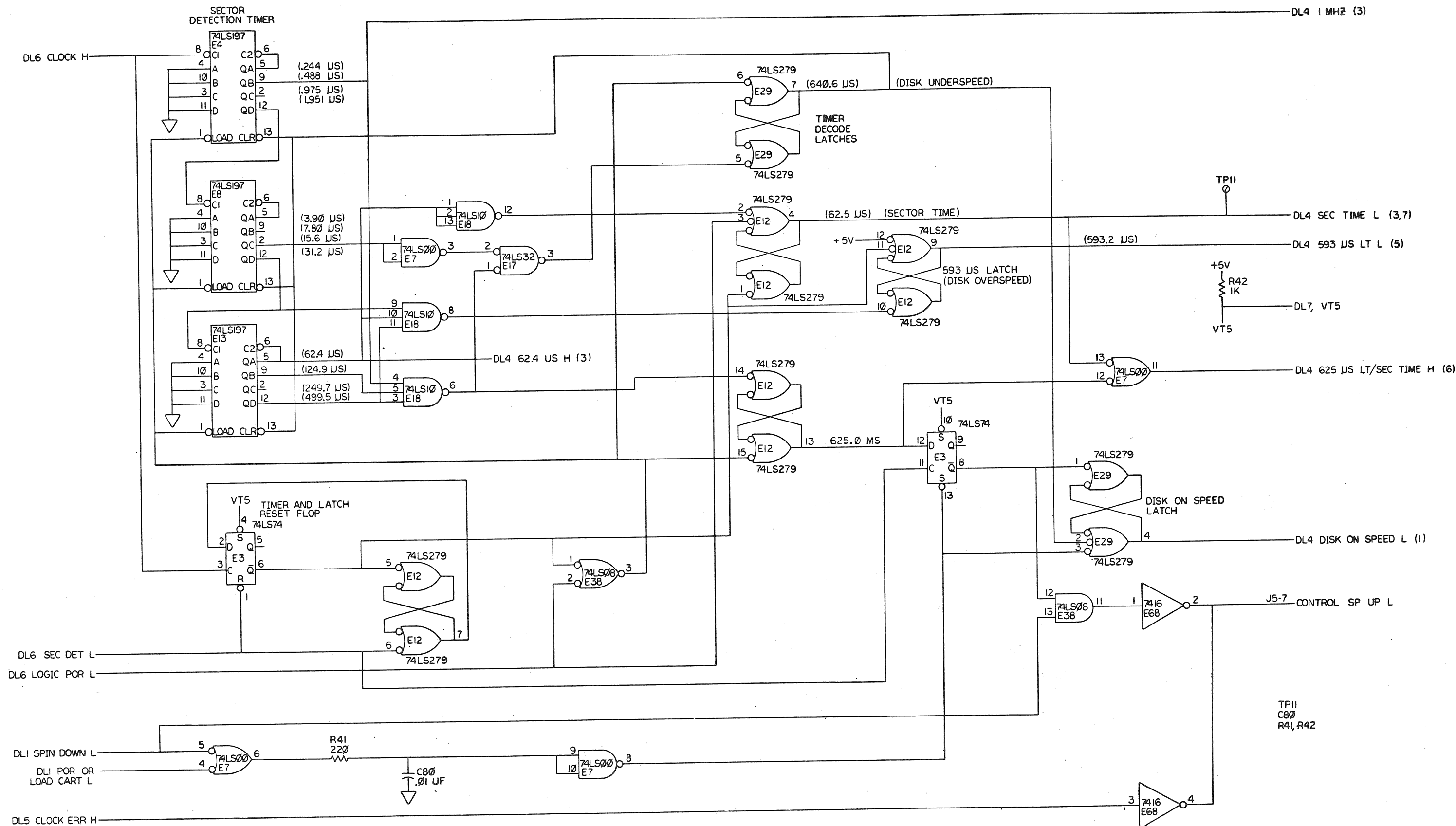
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VEL	VEL SIG	DET V	CODE MSB	CODE LSB
25.6 IPS	3.79 V	3.80 V	1	1
19.2 IPS	2.84 V	2.86 V	0	1
12.8 IPS	1.89 V	1.85 V	0	0
0	0	0	0	0

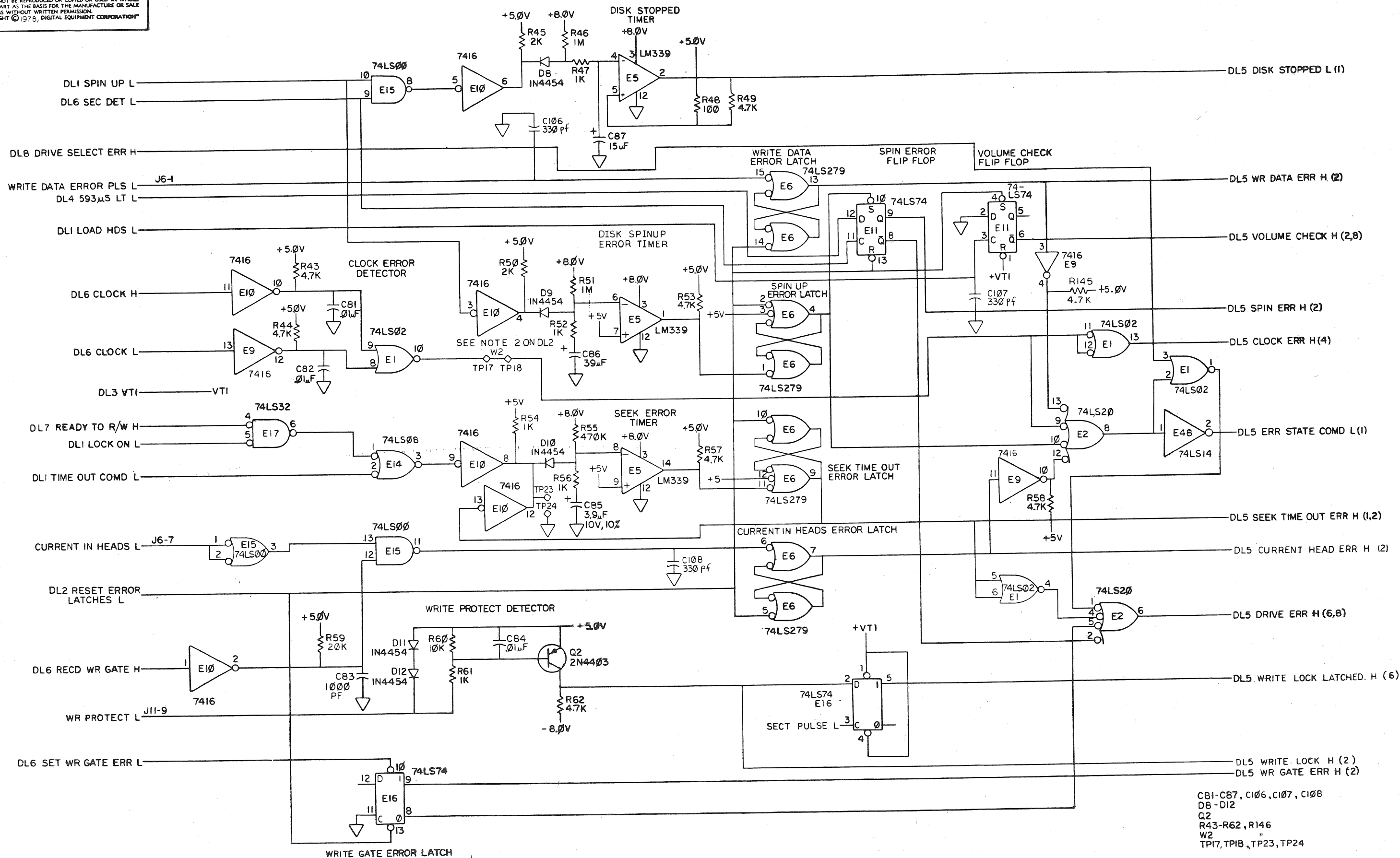
CHK	CHANGE NO.	REV.

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



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

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DL2 RESET ERROR LATCHES L

DL6 ENABLE INTERFACE H

DRIVE SELECT/PARTIAL
SECTOR PULSE DISABLE

SECTOR PULSE
LINE DRIVER

DL7 SEC PLS H

DL6 VT3 ——— VT3
DL6 -5.0V ——— -5.0V

AC LO L J12-B

DL1 HM SW L J4-9

DL5 VOLUME CHECK H

DL5 DRIVE ERR H

J12-MM DRIVE SECTOR PLS L
J12-NN DRIVE SECTOR PLS H

DL8 DRIVE SELECT ERR L (5)
DL8 DRIVE SELECT ERR H (2)(5)

DL8 AC LO L (6)
DL8 AC LO LATCHED L (6)

J12-SS DRIVE ERROR L
J12-TT DRIVE ERR H

J11-B FAULT LAMP H

C94, C104, C105
Q15
R125-R130

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE DRIVE LOGIC (DL8)		SIZE CODE D CS	NUMBER 5414025-0-1	REV. 1
SCALE	SHEET	8 OF 8	DIST.	