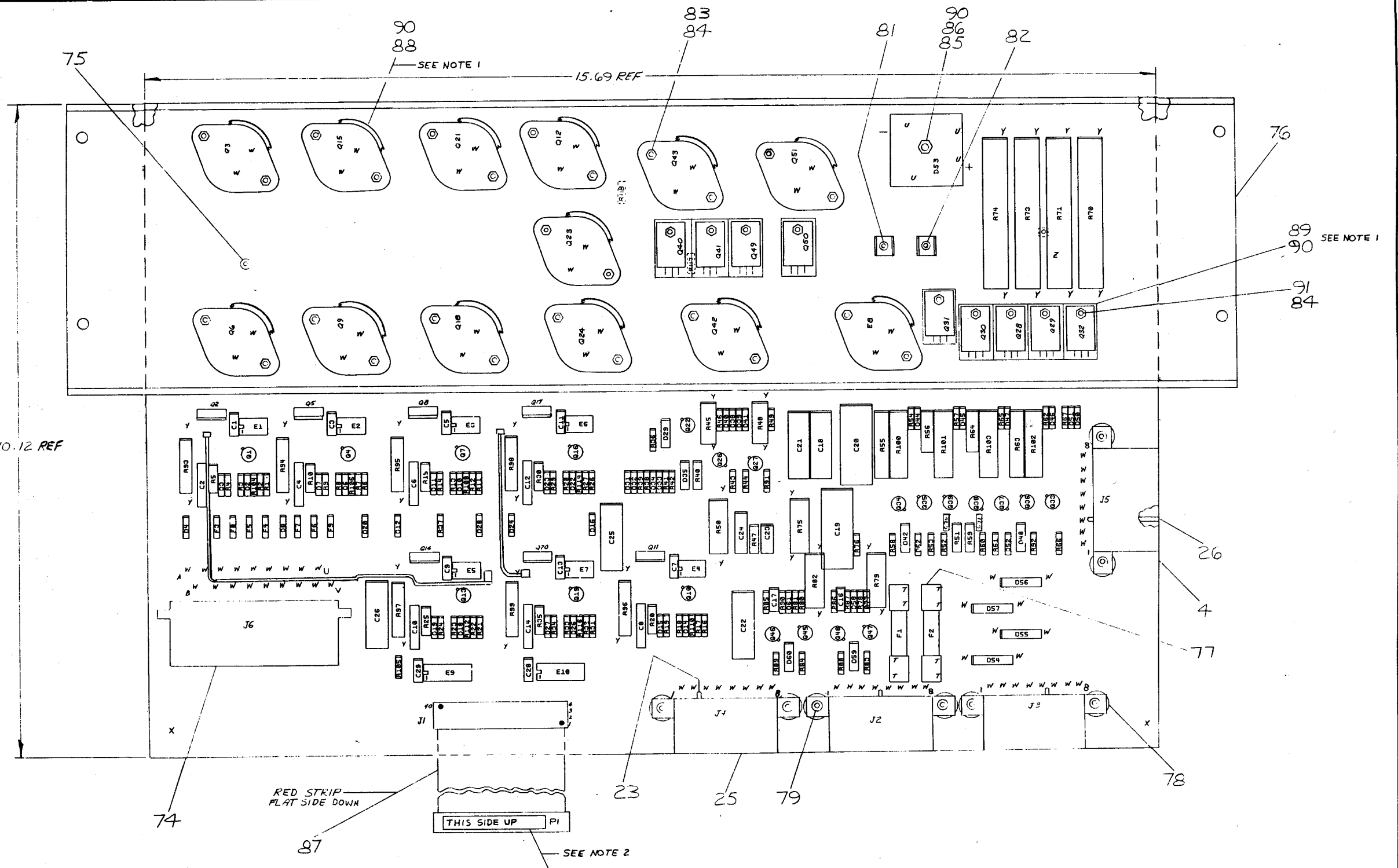


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NOTES:

1. COMPOUND (ITEM 94) TO BE USED ON BOTH SIDES OF ALL INSULATORS (ITEMS 88 & 89) AND D53.
2. "THIS SIDE UP" STICKER TO BE INSTALLED ON CABLE CONNECTOR PI AS SHOWN.
3. CONNECTORS:
 J1 - J1 LOGIC
 J2 - FILTER CAPS
 J3 - LINE VOLTAGE
 J4 - CARRIAGE MOTOR
 J5 - LINE FEED MOTOR
 J6 - HEAD CABLE



IC TYPE	GND	+5V
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPTIONS ARE STATED ABOVE		
IC PIN LOCATIONS		

CHK	CHANGE NO.	REV.
A	1	1
B	2	1
C	3	1
D	4	1
E	5	1
F	6	1
G	7	1
H	8	1
I	9	1
J	10	1
K	11	1
L	12	1

FIRST USED ON OPTION MODEL		QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.																				
ETCH BOARD REV.		PARTS LIST																								
REV. 1		<table border="1"> <tr> <td>DRN</td> <td>M. France</td> <td>DATE</td> <td>9/11/75</td> </tr> <tr> <td>CHKD</td> <td>V. S. Adkian</td> <td>DATE</td> <td>4/23/75</td> </tr> <tr> <td>ENG</td> <td>V. S. Adkian</td> <td>DATE</td> <td>4/30/75</td> </tr> <tr> <td>PROD</td> <td>V. S. Adkian</td> <td>DATE</td> <td>4/30/75</td> </tr> <tr> <td>DATE</td> <td>5/1/75</td> <td></td> <td></td> </tr> </table>					DRN	M. France	DATE	9/11/75	CHKD	V. S. Adkian	DATE	4/23/75	ENG	V. S. Adkian	DATE	4/30/75	PROD	V. S. Adkian	DATE	4/30/75	DATE	5/1/75		
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SEMICONDUCTOR CONVERSION CHART		<table border="1"> <tr> <td>DEC NO.</td> <td>EIA NO.</td> <td>DEC NO.</td> <td>EIA NO.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>					DEC NO.	EIA NO.	DEC NO.	EIA NO.																
DEC NO.	EIA NO.	DEC NO.	EIA NO.																							
SCALE		<table border="1"> <tr> <td>SIZE CODE</td> <td>NUMBER</td> <td>REV.</td> </tr> <tr> <td>D</td> <td>CS 5411021-0-1</td> <td>L</td> </tr> </table>					SIZE CODE	NUMBER	REV.	D	CS 5411021-0-1	L														
SIZE CODE	NUMBER	REV.																								
D	CS 5411021-0-1	L																								
SHEET 1 OF 5		<table border="1"> <tr> <td>TITLE</td> <td>LA180 POWER BOARD</td> </tr> <tr> <td>DIST.</td> <td></td> </tr> </table>					TITLE	LA180 POWER BOARD	DIST.																	
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DIST.																										

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PARTS LIST				
QTY	REF DESIGNATIONS	DESCRIPTION	PART NO	ITEM NO
REF		X-Y COORDINATE HOLE LOCATION	KCO-941021-0-4	1
REF		ASSY/DRILLING HOLE LAYOUT	EAN-541021-0-5	2
REF		MODULE ECO HISTORY	B-MH-541021-0-6	3
1		ETCHED CIRCUIT BOARD	5011020	4
5	C18, C21, C22	CAP 25UF, 25V, 10% +75% ALEL	1000075-00	5
6	C16, C17, C28, C29-C31	CAP .01UF, 100V 20% DISC	1001610-01	6
1	C19	CAP .22UF, 110V, 10% MYLAR	1000037-00	7
1	C20	CAP 190UF, 12V, 20% AL. EL.	1009933-00	8
2	C25, C26	CAP 20UF, 50V, 10% +75% ALEL	1002839-00	9
1	C29	CAP 1.5UF, 35V, 10% S.TANT	1009725-00	10
7	C1, C3, C5, C7, C9, C11, C13	CAP 15PF, 100V, 5% D.M.	1002427-00	11
7	C2, C4, C6, C8, C10, C12, C14	CAP .1UF, 100V, 20% DISC	1000030-00	12
1	C23	CAP .33UF, 20V, 10% S.TANT	1005328-00	13
22	D2, D3, D6, D7, D10, D11, D14, D15, D18, D19, D26, D27, D22, D23, D38, D40, D41, D39, D52, D61, D58, D62	DIODE D664	1100114-00	14
2	D31, D33	DIODE IN4744	1105698-00	15
13	D4, D8, D12, D16, D20, D28, D46, D47, D44, D45, D50, D51, D24	DIODE IN4004	1105796-00	16
4	D54 THRU D57	DIODE IN4721	1110182-00	17
1	D53	DIODE BRIDGE 21V	1110714-00	18
4	D29, D35, D59, D60	DIODE .4M 5.1A ±1 5.1V, 1% ZENER	1105873-00	19
2	D32, D34	DIODE IN4733	1110488-00	20
1	D30	DIODE IN746A	1104860-00	21
2	D42, D48	DIODE IN748A	1100122-00	22
4		KEYING PLUG, MATE-N-LOK	1211595-00	23
				24
4	J2, J3, J4, J5	CONN MATE-N-LOK B SKT	1209340-00	25
28		SOCKET PC, MATE-N-LOK	1209456-01	26
2	R52, R60	RES 2K, 1/4W, 5%	1302388-00	27
1	R47	RES 39, 1/2W, 5%	1302336-00	28
7	R93 THRU R99	RES 1, 3W, 5% W.W.	1312547-00	29
4	R100 THRU R103	RES 4, 5W, 5% W.W.	1311624-00	30
1	R67	RES 100, 1/4W, 5%	1300229-00	31
1	R76	RES 18, 1/4W, 5%	1302124-00	32
2	R73, R74	RES 100, 10W, 5% W.W.	1310597-00	33
7	R5, R10, R15, R20, R25, R30, R35	RES 100, 1/2W, 5%	1300228-00	34
5	R44, R58, R92, R108, R112	RES 1.5K, 1/4W, 5%	1300391-00	35
1	R84	RES 220, 1/4W, 5%	1300271-00	36
2	R56, R64	RES 150, 2W, 5% W.W.	1305524-00	37
2	R55, R63	RES 150, 5W, 5% W.W.	1301898-00	38
1	R83	RES 270, 1/4W, 5%	1301972-00	39
1	R50	RES 390, 2W, 5%	1301864-00	40
1	R75	RES 270, 2W, 10%	1300288-00	41
1	R82	RES 300, 2W, 5%	1309855-00	42
2	R78, R81	RES 390, 1/4W, 5%	1300309-00	43
1	R79	RES 470, 2W, 5%	1303062-00	44
2	R85, R86	RES 150, 1/4W, 5%	1300250-00	45
2	R51, R59	RES 300, 1/2W, 5%	1300291-00	46
9	R43, R4, R9, R14, R19, R24, R29, R34, R105	RES 1K, 1/4W, 5%	1300365-00	47

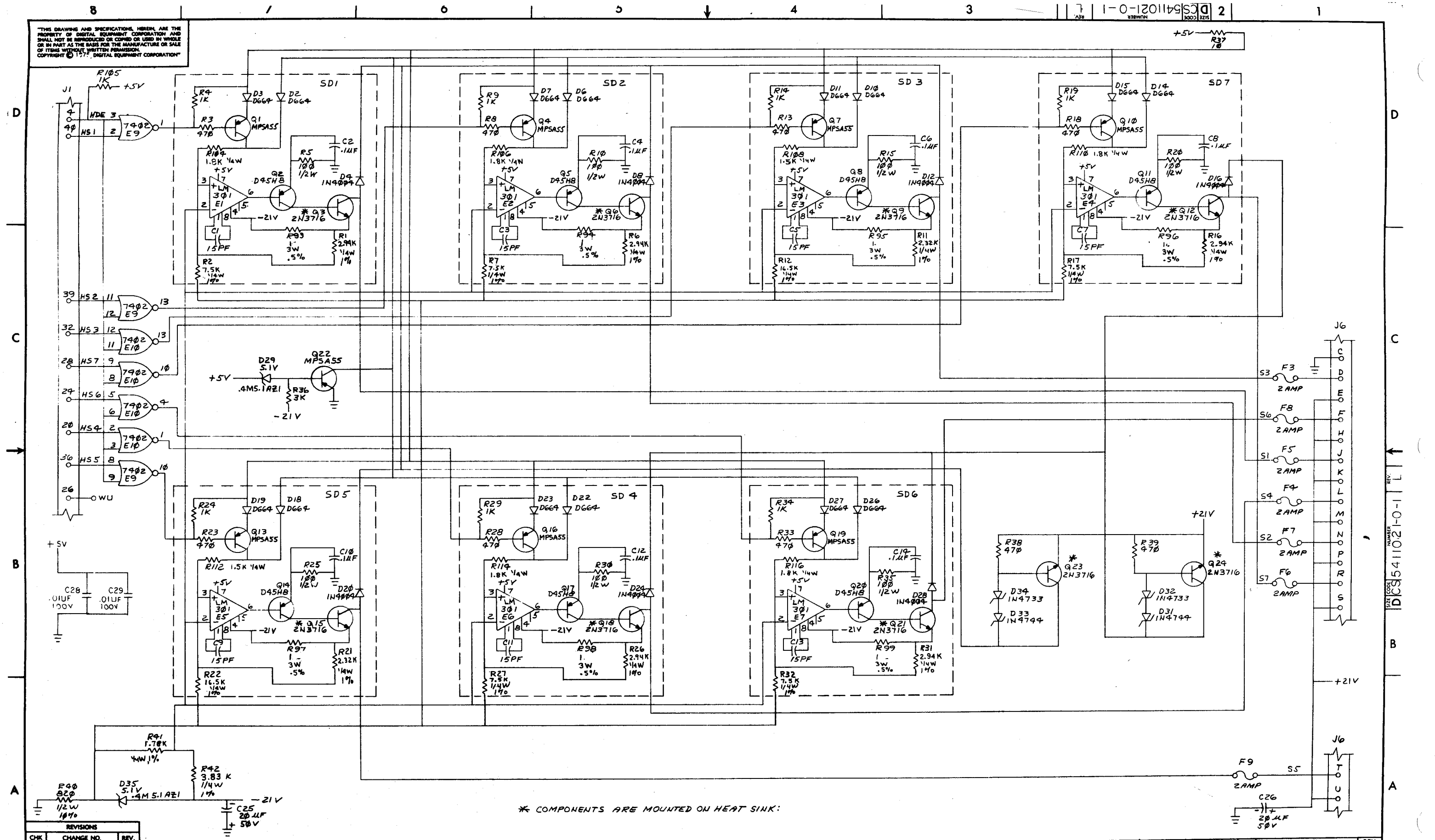
PARTS LIST				
QTY	REF DESIGNATIONS	DESCRIPTION	PART NO	ITEM NO
2	R45, R48	RES 560, 1W, 5%	1303048-00	48
3	R77, R80, R91	RES 3.9K, 1/4W, 5%	1300444-00	49
2	R90, R92	RES 4.7K, 1/4W, 5%	1300447-00	50
3	R53, R61, R66	RES 10K, 1/4W, 5%	1300479-00	51
2	R88, R89	RES 464, 1/4W, 1%	1303047-00	52
2	R87, R90	RES 619, 1/4W, 1%	1305126-00	53
15	R3, R8, R13, R18, R23, R33, R38, R28, R39, R46, R49, R54, R57, R62, R65	RES 470, 1/4W, 5%	1300316-00	54
1	R40	RES 820, 1/2W, 10%	1300356-00	55
1	R36	RES 3K, 1/4W, 5%	1300932-00	56
5	R2, R7, R17, R27, R32	RES 75K, 1/4W, 1%	1305322-00	57
1	R41	RES 1.78K, 1/4W, 1%	1302612-00	58
5	R1, R6, R16, R26, R31	RES 2.94K, 1/4W, 1%	1301981-00	59
1	R42	RES 3.83K, 1/4W, 1%	1309413-00	60
2	R11, R21	RES 2.32K, 1/4W, 1%	1312545-00	61
9	Q3, Q6, Q9, Q12, Q15, Q18, Q23, Q24, Q21	TRANS 2N3716	1503069-00	62
2	Q42, Q43	TRANS 3715	1503068-00	63
1	Q51	TRANS 2N3791	1509581-00	64
2	Q38, Q39	TRANS 6S31B	1509338-00	65
6	Q26, Q36, Q37, Q47, Q48, Q33	TRANS MPS A05	1510705-00	66
13	Q37, Q35, Q1, Q4, Q7, Q10, Q13, Q16, Q19, Q27, Q22, Q45, Q46	TRANS MPS A55	1510706-00	67
5	Q41, Q28, Q30, Q49, Q32	TRANS TIP31A	1512590-00	68
4	Q40, Q29, Q31, Q50	TRANS TIP32A	1512589-00	69
7	Q2, Q5, Q8, Q11, Q4, Q17, Q20	TRANS D45H8	1510708-00	70
2	E9, E10	IC 7402	1909004-00	71
1	E8	IC LM309K REGULATOR	1910460-00	72
7	E1 THRU E7	IC LM301A OP AMP	1910282-00	73
1	J6	H802 18 PIN (MODIFIED)	5510831-00	74
2		RIVET, POP	9006460-00	75
1		HEAT SINK	7413424-00	76
4		FUSE CLIP	9009513-01	77
8		WASHER (MATE-N-LOK STANDOFF)	9006693-00	78
8		EYELET	9006732-00	79
2	F1, F2	FUSE 3 AMP SLO BLO	9007218-00	80
2		FASTON TAB	9007113-00	81
2		EYELET	9009000-00	82
26		SCREW PPH 9-40X1/2	9006013-01	83
35		NUT, KEP 4-40	9006557-00	84
1		SCREW, PPH 6-32 X15/16	9007838-01	85
1		NUT, KEP 6-32	9006560-00	86
1		CABLE, POWER BOARD	CAD-7010363-1	87
13		INSULATOR, T0-3	9006721-00	88
9		INSULATOR	9009597-00	89
AIR		COMPOUND, THERMAL JOINT	9008268-00	90
9		SCREW PPH 9-40 X7/16	9006012-01	91
7	F3 THRU F9	FUSE, PICO, 2 AMP	1211751-00	92
1		LABEL	3611567-00	93
5	R104, R106, R110, R114, R116	RES 1.8K, 1/4W, 5%	1300398-00	94
2	R12, R22	RES 16.5K, 1/4W, 1%	1312546-00	95
14"	WIRE	WIRE, AWG 14, GREEN	9107370-55	96
2	R70, R71	RES. 60, 10W, 5%	1312997	97

PARTS LIST				
QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO
1	R37	RES 10, 1/4W, 5%	1301317-00	98
2	R117, R118	RES 100, 1/4W, 5%	1310881-03	99

REVISIONS		
CHK	CHANGE NO	REV

TITLE	LA180 POWER BOARD	SIZE CODE	D CS 5411021-0-1	NUMBER		REV.	L
SCALE	#	SHEET	2	OF	5	DIST.	

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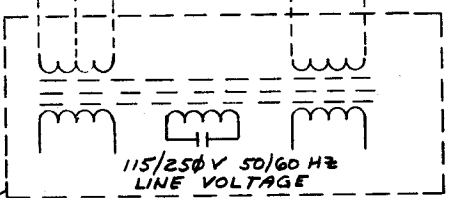
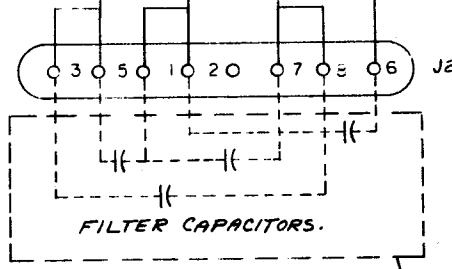
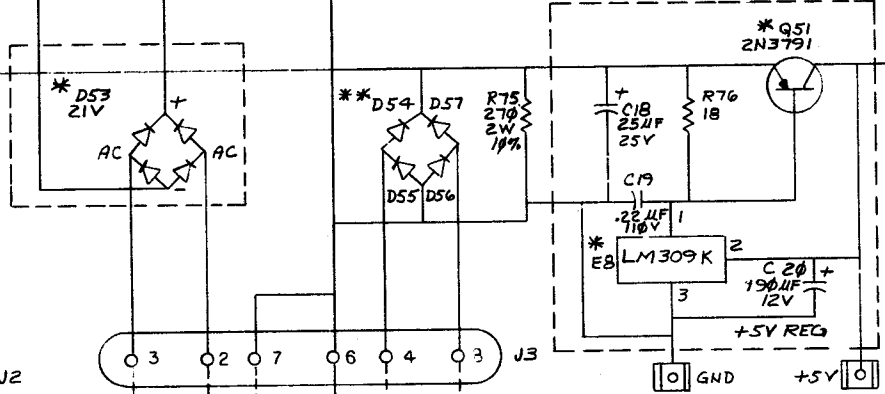
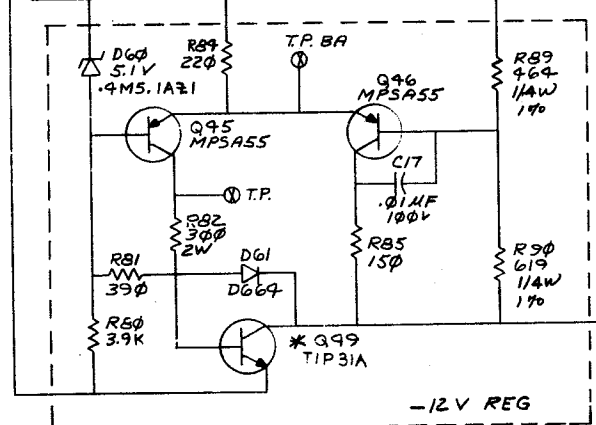
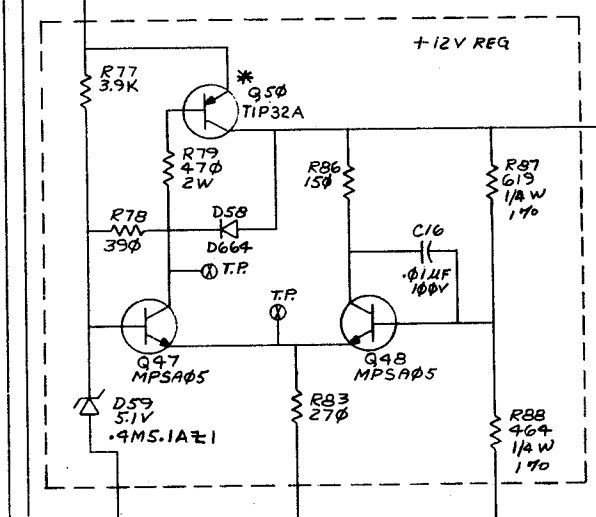
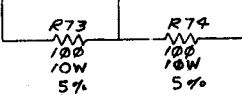
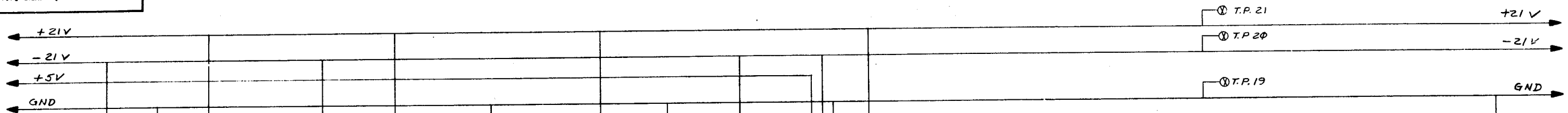
* COMPONENTS ARE MOUNTED ON HEAT SINK:

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	LA180 POWER BOARD	SIZE CODE	NUMBER	REV.
SCALE	1/1	DIST.		

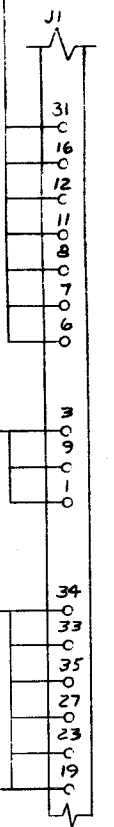
REV. 1
NUMBER
LA180
DCS 5411021-0-1

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REF ONLY LOCATED EXTERNALLY

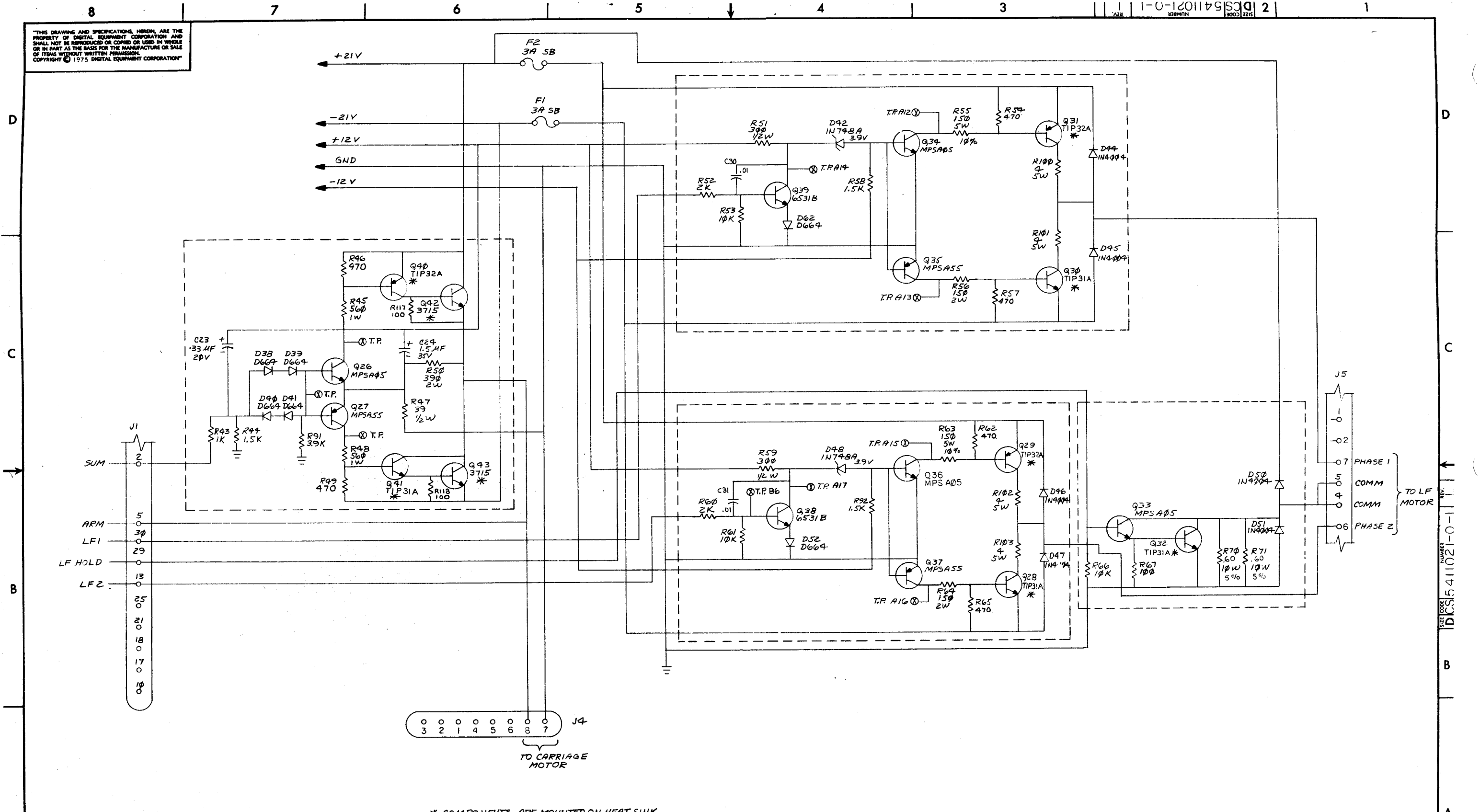
* COMPONENTS ARE MOUNTED ON HEAT SINK.
 ** DIODES D54 THRU D57 ARE 1N4721.



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	LAI80 POWER BOARD	SIZE CODE	DCS 5411021-	NUM	-1	REV.	L
SCALE		SHEET	4 OF 5	DIST.			

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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	LAI80 POWER BOARD	SIZE CODE	NUMBER	REV.
SCALE		SHEET	5 OF 5	L
DIST.				