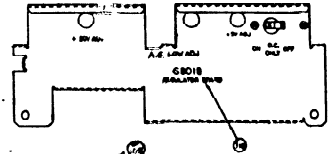
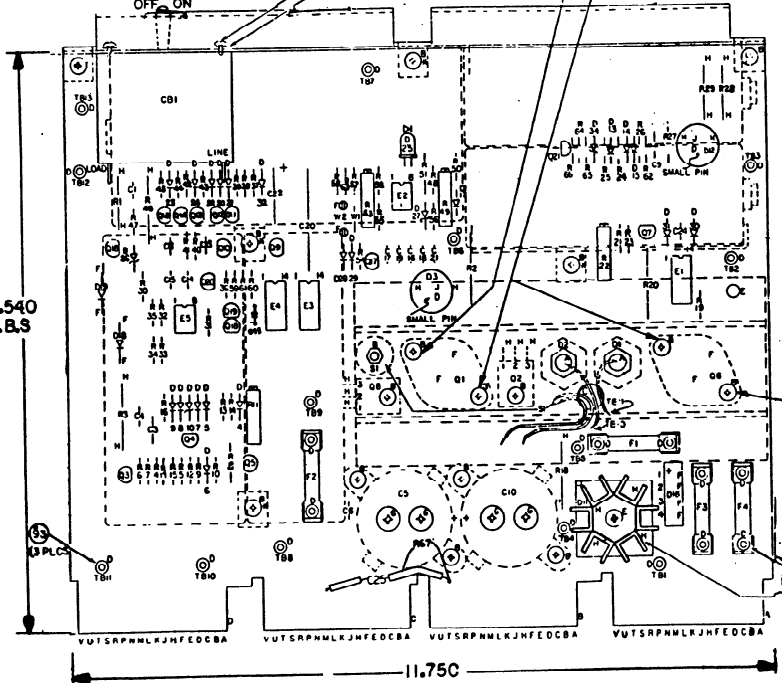
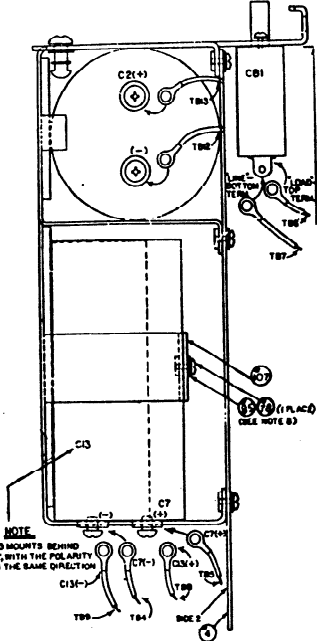


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- NOTES:**
- * INDICATES HOLES OFF GRID (4 PLACES)
 - ALL COMPONENTS SHOWN BY BROKEN LINES MOUNT ON SIDE *2
 - SI MOUNTS WITH ITEMS #84 F*88 (1 PLACE)
 - FOR 50HZ OPERATION REMOVE W1 AND INSERT W2 BUSS WIRE, Q2 AWG, PART NO. 9107560-01
 - C2 Q8 MOUNT WITH ITEMS 82,84,88
 - C5 C10 MOUNT WITH ITEMS *102,*84,*85,*88,*87,*113
 - PLACE ITEM *89 BETWEEN D11 AND PC BOARD SECURE WITH ITEMS *80,*83 & *86 (1 PLACE)
 - C7 & C13 ARE HELD IN PLACE WITH ITEM *107 (CAPACITOR CLAMP) AND SECURED WITH ITEMS *78 & *85
 - REFER TO PARTS LIST FOR IDENTIFICATION OF ALL NUMBERED ITEMS
 - D1 & D2 TORQUE TO 20 LB-INS
 - Q1 & Q6 TORQUE TO 14 LB-INS
 - B2 Q8 & S1 TORQUE TO 10 LB-INS
 - Q1, Q6 MOUNT WITH ITEMS 82,84 & 88 ON ONE SIDE & ITEMS 82,84 & 88 ON THE OTHER SIDE

WIRE TABLE			
PART NO.	FROM	TO	TERMINATION
91-07380-00781	C1(+)-END	C1(+)-END	SOLDER WIRE AT THIS END ATTACH SOLID LEADS TO CONNECTOR (90-07988) AT C1(+)
91-07380-00782	C1(-)-END	C1(-)-END	SOLDER WIRE AT THIS END ATTACH SOLID LEADS TO CONNECTOR (90-07988) AT C1(-)
91-07380-00783	C1(+)-END	C1(+)-END	SOLDER WIRE AT THIS END ATTACH SOLID LEADS TO CONNECTOR (90-07988) AT C1(+)
91-07380-00784	C1(-)-END	C1(-)-END	SOLDER WIRE AT THIS END ATTACH SOLID LEADS TO CONNECTOR (90-07988) AT C1(-)
91-07380-00785	C7(+)-END	C7(+)-END	SOLDER WIRE AT THIS END ATTACH SOLID LEADS TO CONNECTOR (90-07988) AT C7(+)
91-07380-00786	C7(-)-END	C7(-)-END	SOLDER WIRE AT THIS END ATTACH SOLID LEADS TO CONNECTOR (90-07988) AT C7(-)

12 MOUNT D1 & D2 WITH ITEM #123 & 124



APPLY THERM COMPOUND BETWEEN HEATSIK AND ALL COMPONENTS THAT MOUNT ON IT: C1, C2, C5, C8, Q1, Q6, D1, D2

APPLY THERM COMPOUND BETWEEN D1 AND D2 AT POINT ITEM #100 (SEE NOTE #7)

REF	X-Y COORDINATE HOLE LOCATION	QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
REF	151/DRILLING HOLE LAYOUT				E-CO-68018-1	1
REF	MODULE ECO HISTORY				8-W-68018-0-6	2
1	ETCHED CIRCUIT BOARD				5011499	3
2	C3, C9			CAP. 1UF 100V 80%	1000030	4
1	C20			CAP. .87 UF 100V 10%	1000080	5
8	C8, C14, C15, C16, C17, C18, C19, C24			CAP. .01 UF 100V 20%	1001610-01	6
1	C7			CAP. 15,000 UF 40V-10% 70+75%	1009966	7
8	C11, C12			CAP. 10,000 UF 20V-10% 70+100%	1010185-01	8
1	C13			CAP. 10,000 UF 10V-10% 70+100%	1010197	9
4	C1, C6, C21, C25			CAP. .22 UF 50V-20% 70+80%	1010278	10
1	C10			CAP. 4500 UF 25V-10% 70+75%	1010703	11
1	C5			CAP. 6000 UF 10V-10% 70+75%	1010709	12
1	C2			CAP. .11F, 10V-10% 70+75%	1011578	13
2	C8, C23			CAP. 680 PF 100V 5%	1000082	14
1	C28			CAP. 39 UF 10V 10%	1000076	15
5	D5, D6, D7, D8, D9			DIODE 0.662	1100113	16
1	D18			DIODE 1N758A 10V 5%	1100125	17
1	D10			DIODE 57V28 SCREENED	1111205	18
1	D26			DIODE 1N782 4.7V 5%	1105138	19
1	D13			DIODE 1N968 13V 5%	1109988	20
1	D16			DIODE MDA970-3F 200V	1110208	21
1	D25			DIODE LED M55054-1	1110326	22
1	D11			DIODE M553519 200V	1110719	23
2	D18, D19			DIODE M2752	1110615	24
1	D15			DIODE 1N759A 12V 5%	1110836	25
1	D27			DIODE 1N751A 5.1V 5%	1110994	26
2	D1, D2			DIODE 1N1183	1111609	27
2	R7, R25			RES 47 1/4 W 5%	1300202	28
2	R4, R17			RES 100 1/4 W 5%	1300229	29
1	R1			RES 100 1 W 5%	1300232	30
1	R6			RES 150 1/4 W 5%	1300250	31
2	R5, R19			RES 220 1/4 W 5%	1300271	32
4	R13, R15, R43, R54, R60, R61			RES 330 1/4 W 5%	1300295	33
1	R51			RES 330 1/2 W 5%	1300296	34
1	R24			RES 390 1/4 W 5%	1300309	35
2	R28, R29			RES 470 1 W 5%	1300319	36
QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.		

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

DATE	BY	REVISIONS
11-21-74	A. DELUCA	1
11-21-74	A. DELUCA	2
11-21-74	A. DELUCA	3
11-21-74	A. DELUCA	4
11-21-74	A. DELUCA	5
11-21-74	A. DELUCA	6
11-21-74	A. DELUCA	7
11-21-74	A. DELUCA	8
11-21-74	A. DELUCA	9
11-21-74	A. DELUCA	10
11-21-74	A. DELUCA	11
11-21-74	A. DELUCA	12
11-21-74	A. DELUCA	13
11-21-74	A. DELUCA	14
11-21-74	A. DELUCA	15
11-21-74	A. DELUCA	16
11-21-74	A. DELUCA	17
11-21-74	A. DELUCA	18
11-21-74	A. DELUCA	19
11-21-74	A. DELUCA	20
11-21-74	A. DELUCA	21
11-21-74	A. DELUCA	22
11-21-74	A. DELUCA	23
11-21-74	A. DELUCA	24
11-21-74	A. DELUCA	25
11-21-74	A. DELUCA	26
11-21-74	A. DELUCA	27
11-21-74	A. DELUCA	28
11-21-74	A. DELUCA	29
11-21-74	A. DELUCA	30
11-21-74	A. DELUCA	31
11-21-74	A. DELUCA	32
11-21-74	A. DELUCA	33
11-21-74	A. DELUCA	34
11-21-74	A. DELUCA	35
11-21-74	A. DELUCA	36
11-21-74	A. DELUCA	37
11-21-74	A. DELUCA	38
11-21-74	A. DELUCA	39
11-21-74	A. DELUCA	40
11-21-74	A. DELUCA	41
11-21-74	A. DELUCA	42
11-21-74	A. DELUCA	43
11-21-74	A. DELUCA	44
11-21-74	A. DELUCA	45
11-21-74	A. DELUCA	46
11-21-74	A. DELUCA	47
11-21-74	A. DELUCA	48
11-21-74	A. DELUCA	49
11-21-74	A. DELUCA	50

FIRST USED ON OPTION MODEL

ETCH BOARD REV. D

DATE 2-8-75
 CHK'D By: [Signature]
 ENG. [Signature]
 DATE 2-12-75
 DATE 2-12-75
 DATE 2-12-75
 DATE 2-12-75
 DATE 2-12-75
 DATE 2-12-75

digital

TITLE REGULATOR BOARD
 8 A CORE

SIZE CODE: DCS G8018-0-1
 NUMBER M
 REV. M

SCALE 1 OF 8
 SHEET 1 OF 8

SEMICONDUCTOR CONVERSION CHART

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6		SCREW 6-32 X .56	9007713-1	81
1		KEFNUT 8-32	9006563	82
11		KEFNUT 6-32	9008185	84
15		WASHER #6 INTERNAL	9006633	85
1		WASHER #8 INTERNAL	9006634	86
4		SCREW 6-32 X .38	9006522-01	87
21		WASHER #6 FLAT	9006656	88
1		WASHER #8 FLAT NYLON (NHT)	9006713-00	89
8		FUSE CLIPS	9007273	90
1	F1	FUSE 4A	9007219	91
3	F2, F3, F4	FUSE 2.5A	9008327	92
13	TB1-TB13	EYELET G54-3	9007836	93
8		EYELET	9009000	94
A/R	W1	WIRE JUMPER	9009185	95
A/R		WIRE #22 AWG	9107350-22	96
A/R		WIRE #18 AWG (BLU)	9107380-00	97
A/R		WIRE #18 AWG (RED)	9107380-62	98
1	R22	RES 200 3/4 W 10%	1309143-05	99
A/R		WIRE BUSH #14 AWG	9107360-05	101
2		BRACKET	1210988	102
1	CB1	CIRCUIT BREAKER	1211673	103
1	S1	THERMOSTAT	1211682	104
1		HEAT SINK T-05 (TRANS MOUNTED)	1212322	105
1		HEAT SINK (BRIDGE RECT) 64-18	1210907	106
1		CLAMP CAP	7413208	107
1		BRACKET REG BOARD	7413241	108
2		LUGS SPLIT	9006735	109
11		CONN SODERLESS	9007926-01	110
2		CONN SODERLESS	9007928	111
A/R		COMPOUND THERMO	9008268	112
4	CS, C10	WASHER #6 NYLON	9006707	113
13	D4, D17, D20, D21, D23, D24, D28 - D32, D22	DIODE 0672	1105275	114
A/R		WIRE .30 AWG. GREEN	9105740-05	115
1		DECAL	A-DC-7413498-0-0	116
2	R64, R65	RES 270 1/4 W 5%	1301972	117
1	R66	RES 33 1/4 W 5%	1300197	118
				119
1	D34	DIODE IN 9708	1110856	120
1		PACKAGING INSTRUCTIONS	A-SP-3700175-00	121
A/R		TUBING, EXTRUDED	9107267-00	122
2		HEX NUT 1/4 - 28	9008063	123
2		WASHER 1/4 INTERNAL LOCK	9006637	124

8	R1, R20, R40, R41, R25, R59, R60	RES 1K 1/4 W 5%	1300365	38
1	R45	RES 1.5K 1/4 W 5%	1300391	39
1	R47	RES 1.5K 1/2 W 5%	1300394	40
2	R36, R41	RES 3.0K 1/4 W 5%	1300439	41
1	R56	RES 4.7K 1/4 W 5%	1300447	42
1	R16	RES 10 1/4 W 5%	1301317	43
2	R42, R47	RES 80 1/4 W 5%	1301424	44
1	R46	RES 200 3/4 W 5%	1301474	45
1	R52	RES 511 1/4 W 1%	1302411	46
1	R26	RES 56 1/4 W 5%	1302602	47
1	R3	RES 56 2W 5%	1302836	48
1	R12	RES 100 1/2 W 1%	1302858	49
4	R21, R23, R24, R23	RES 1.21K 1/4 W 1%	1302871	50
1	R9	RES 196 1/4 W 1%	1302956	51
3	R32, R35, R50	RES 464 1/4 W 1%	1303047	52
1	R18	RES 470 2W 5%	1303062	53
1	R57	RES 12.1K 1/4 W 1%	1303313	54
1	R2	RES 1.5W 10%	1303365	55
1	R10	RES 1.96K 1/4 W 1%	1304833	56
3	R37, R38, R39	RES 15K 1/4 W 5%	1300996	57
1	R31	RES 2.2K 1/4 W 5%	1300417	58
1	R48	RES 383 1/4 W 1%	1305125	59
1	R23	RES 619 1/4 W 1%	1305126	60
1	R11	RES 100 3/4 W 10%	1309143-04	61
1	R49	RES 500 3/4 W 10%	1309143-06	62
1	R53	RES 5K 3/4 W 10%	1309143-09	63
1	R54	RES 14.7K 1/4 W 1%	1302941	64
1	R20	RES .14 5W 1%	1310189	65
1	R8	RES 100 1/2 W, NTC	1311760	66
1	F4	IC DEC 7474	1905547	67
1	E3	IC DEC 74121	1910230	68
2	E2, E5	IC DEC 72741	1910278	69
1	E1	IC DEC 723	1910915	70
4	Q4, Q12, Q10, Q21	TRANS DEC 65348	1503409-01	71
1	Q6	TRANS DEC 2N3791	1509581	72
1	Q2	TRANS MJ6 3055	1510555	73
1	Q8	TRANS MJ6 2955	1510556	74
2	D3, D12	TRANS C32A X135 SCE	1510928	75
1	Q1	TRANS 2N3683	1511647	76
13	Q3, Q5, Q7, Q9, Q10, Q11, Q13-Q19	TRANS DEC 65318	1509388	77
7		SCREW 6-32 X .25	9006020-1	78
2		SCREW 6-32 X .31	9006021-1	79
1		SCREW 8-32 X .25	9006021-1	80

REVISION		
NO	CHANGE	REV

QTY	REF	DESIGNATION	DESCRIPTION	PART NO	ITEM NO
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TITLE REGULATOR BOARD
 NUMBER 8A CORE
 SCALE 1:1 SHEET 2 OF 9
 Dwg: G3018-3-1

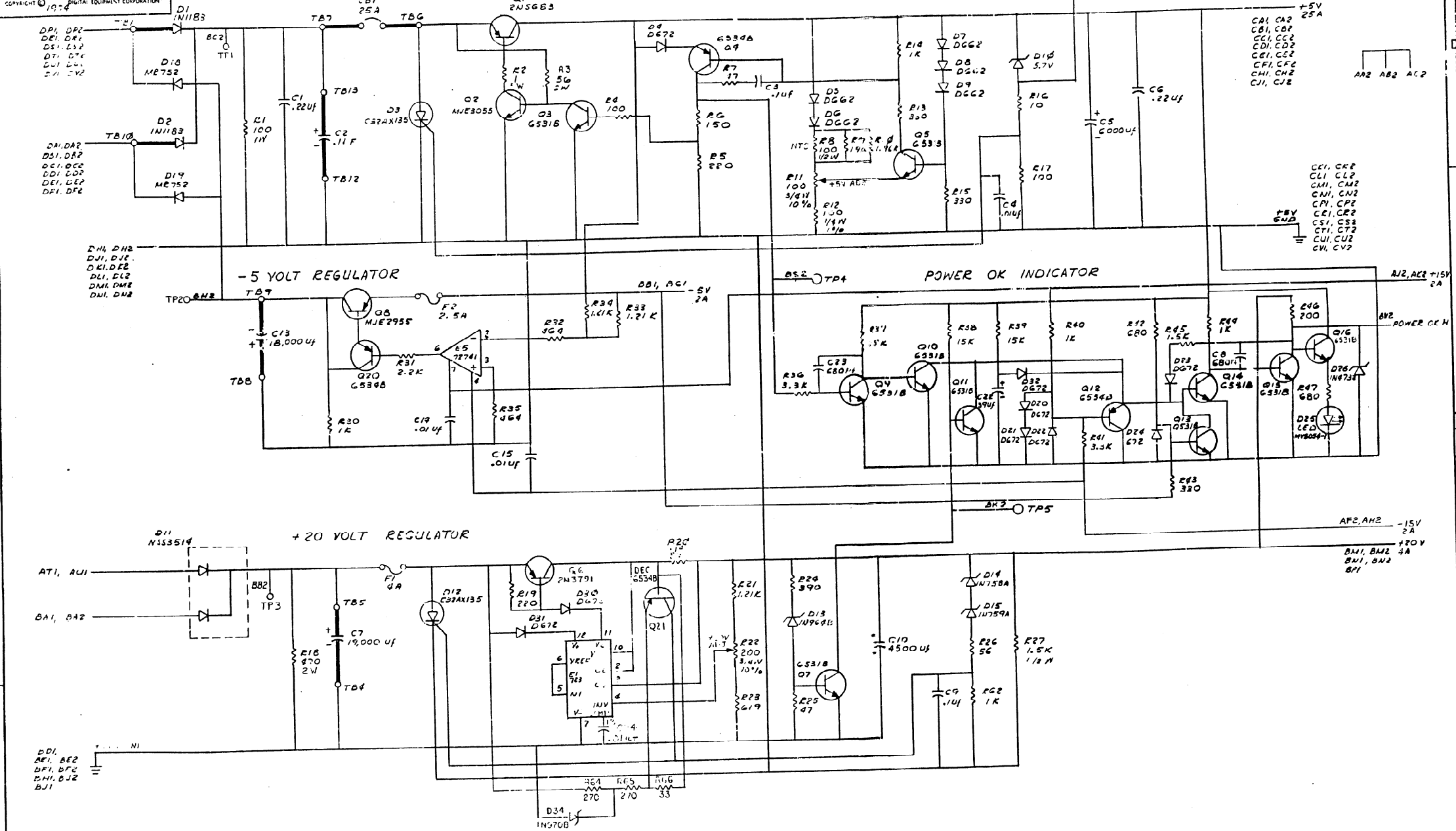
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+5 VOLT REGULATOR

-5 VOLT REGULATOR

POWER OK INDICATOR

+20 VOLT REGULATOR



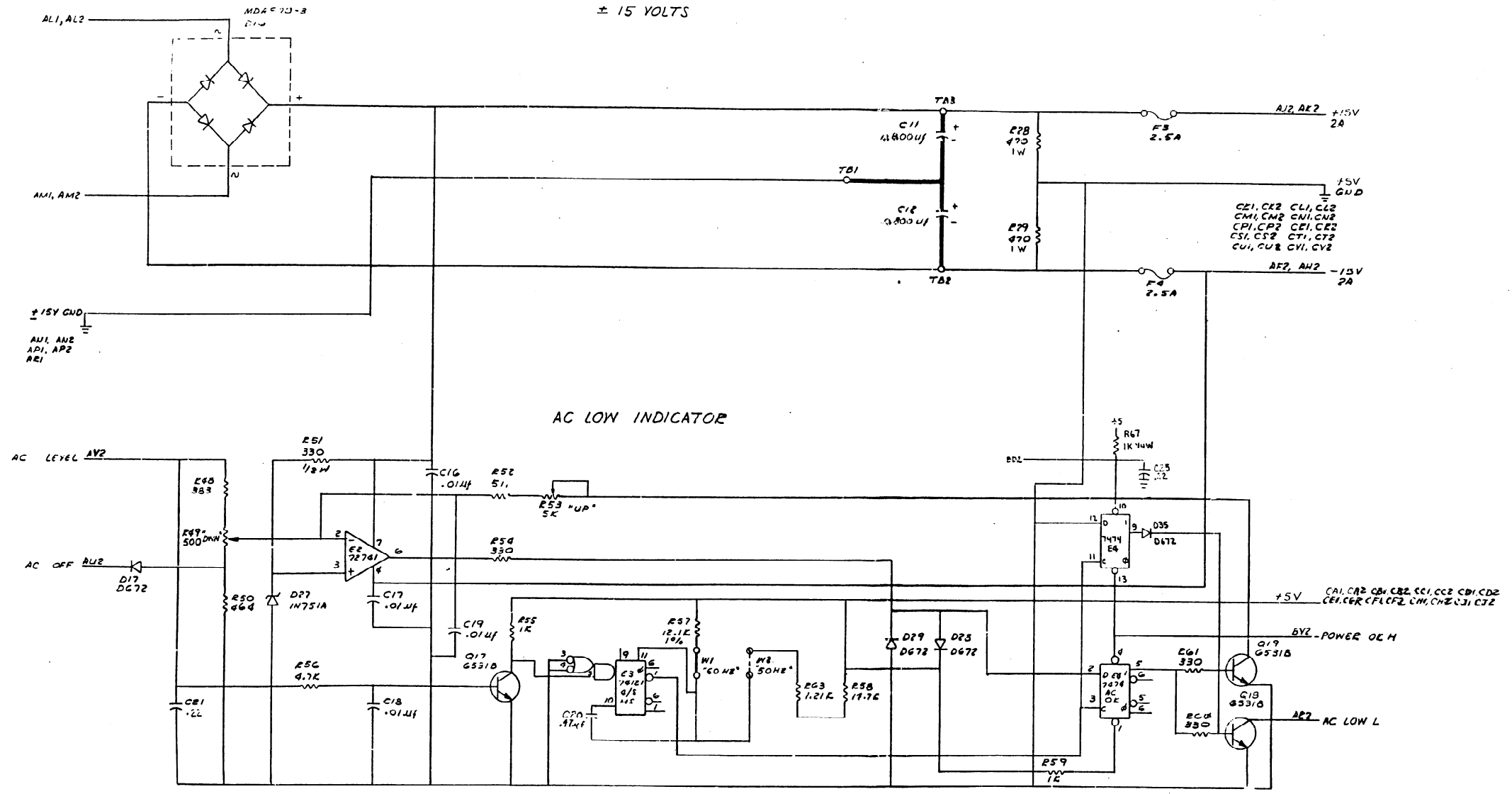
REVISIONS		
CHK	CHANGE NO	REV

TITLE	REGULATOR BOARD	SIZE CODE	DCS	NUMBER	68018-0-1	REV	A1
SCALE		SHEET	4	OF	4	DATE	

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± 15 VOLTS

AC LOW INDICATOR



REVISIONS		
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