

digital

RK05J

Engineering Drawings

Digital Equipment Corporation

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NOTE:

TERMINATOR OR DISKBUS CABLE CONNECTOR MAY BE INTERCHANGED BETWEEN SLOTS 7 AND 8

	2	3	4	5	6	7	8
USAGE	2	2	2	2	2	2	2
	G180	M7680	M7681	M7701	G938	M933	M930 *
	READ/ WRITE	INDEX & SECTOR	CYLINDER ADDRESS & DIFFERENCE	CONTROL & INTERLOCK	POSITION SERVO PREAMP	CHASSIS CONNECTOR	TERMINATOR
							DISKBUS CABLE CONNECTOR
USAGE							

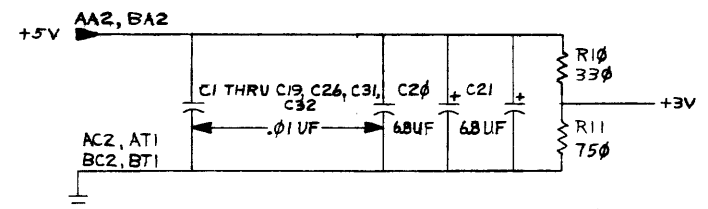
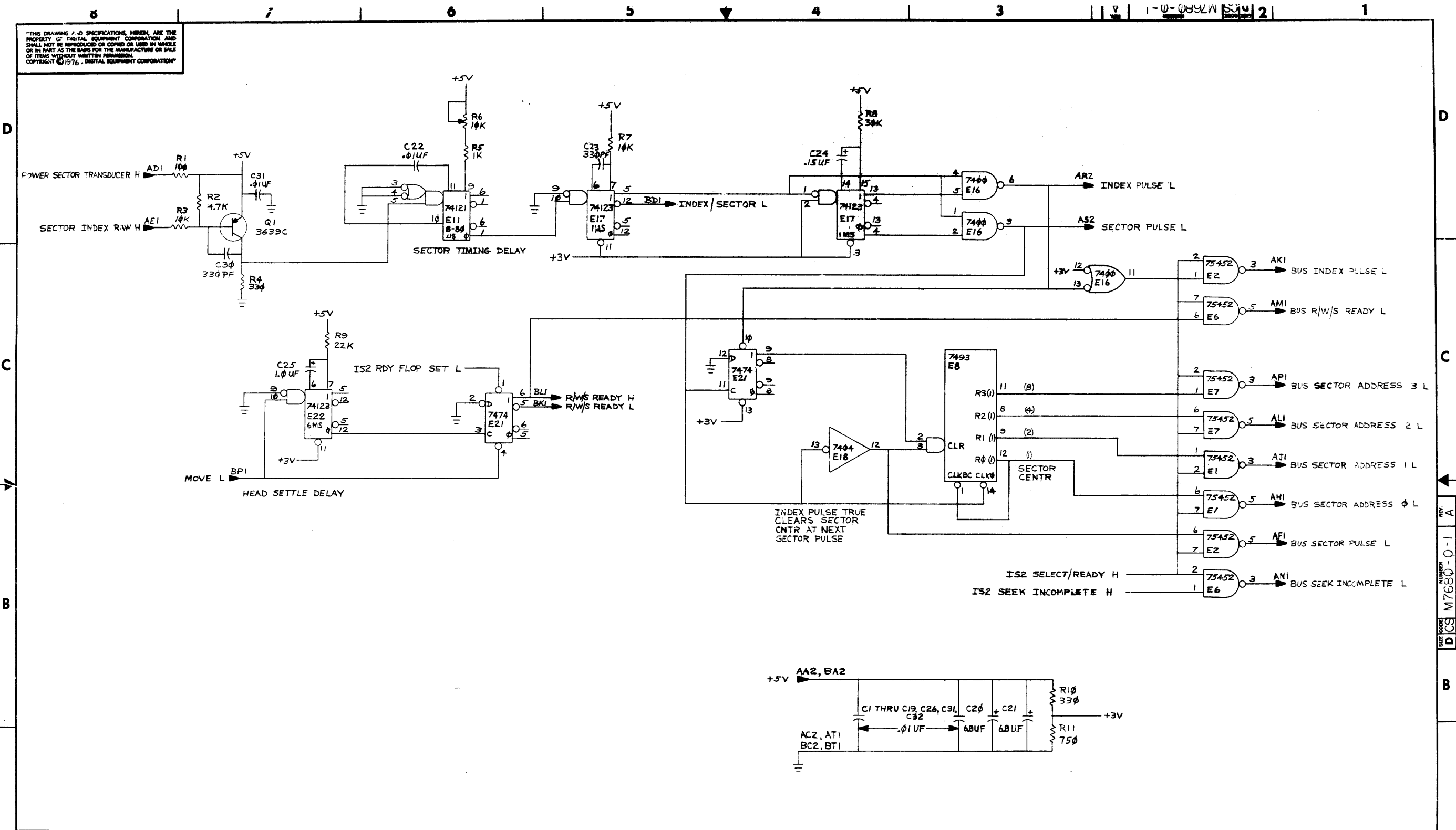
IF MORE THAN ONE DRIVE IS USED, M930 IS REPLACED BY M929 (BC11F), M930 IS USED IN THE LAST DRIVE ON THE BUS.

CHK	CHANGE NO.	REV.
157	RK05-00002	A
		11-7-72
	D. JENSEN	
		11-2-72
	RK05-000066A	B
		11-2-72
	JENSEN	
		11-7-72
	RK05-00023	C
		11-25-72
	G. SCHNEIDER	
		11-13-77
	RK05-00040	D
		11-13-77
	E. ALLAIN	
		7-7-73
	RK05J-00007	E
		12 Jan. 77
	B. Chissem	
		11-13-77
	S. RADOFF	
		11-13-77

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO	ITEM NO
RK05				
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES		DRM <i>D. Jensen</i>	DATE 11-7-71	 digital EQUIPMENT CORPORATION <small>MAYNARD, MASSACHUSETTS</small>
DECIMALS .XXX - .005 .XX - .02 X - .1		CHK'B <i>J. T. Brown</i>	DATE 11-2-71	
ANGLES ±0 - 30		ENG. <i>J. T. Brown</i>	DATE 11-2-71	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓		PRO. ENG. <i>J. T. Brown</i>	DATE 11-24-71	
MATERIAL		PROD. <i>J. T. Brown</i>	DATE 11-17-71	
FINISH		NEXT HIGHER ASSY. B-DD-RK05-0		TITLE MODULE UTILIZATION
SCALE NONE		SIZE/CODE C	NUMBER MU/RK05-C-2	REV. 1
SHEET		OF	DIST	

STATE CODE
C
MILITARY

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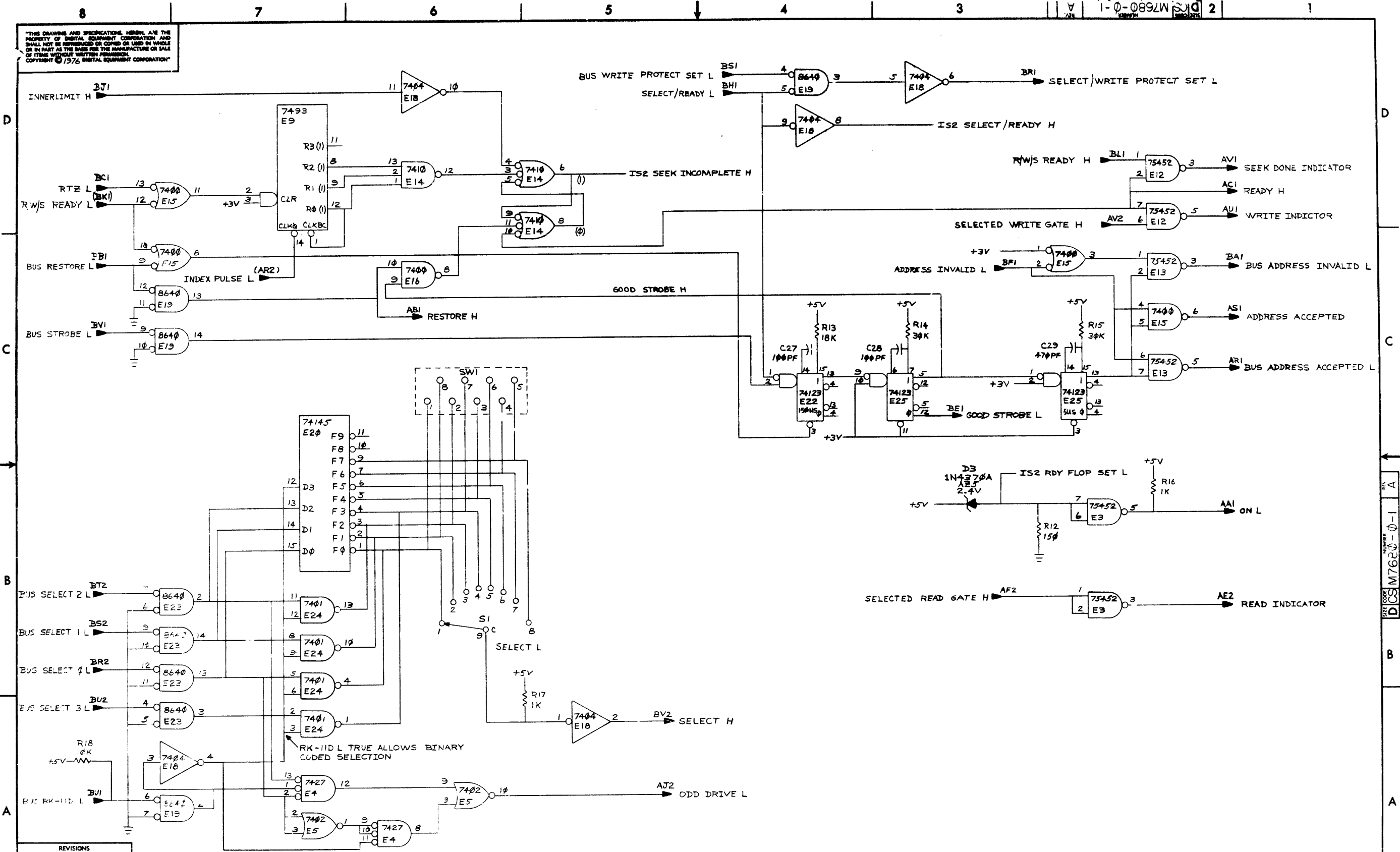


REV.	CHG.	NO.

DRN. <i>[Signature]</i>	22 JAN 76	FIRST USED ON	digital
CHK'D <i>[Signature]</i>	3 FEB 76	TITLE	(ISI)
ENG. <i>[Signature]</i>	15 FEB 76	DEC PAK INDEX AND SECTOR	
PROJ. ENG. <i>[Signature]</i>	15 FEB 76		
PROD. <i>[Signature]</i>	25 FEB 76		
NEXT HIGHER ASSY.			
D-UA-M7680-0-0	SIZE	CODE	NUMBER
SCALE	D	CS	M7680-0-1
SHEET 1 OF 2	DIST.		

REV. A
M7680-0-1
CS
D

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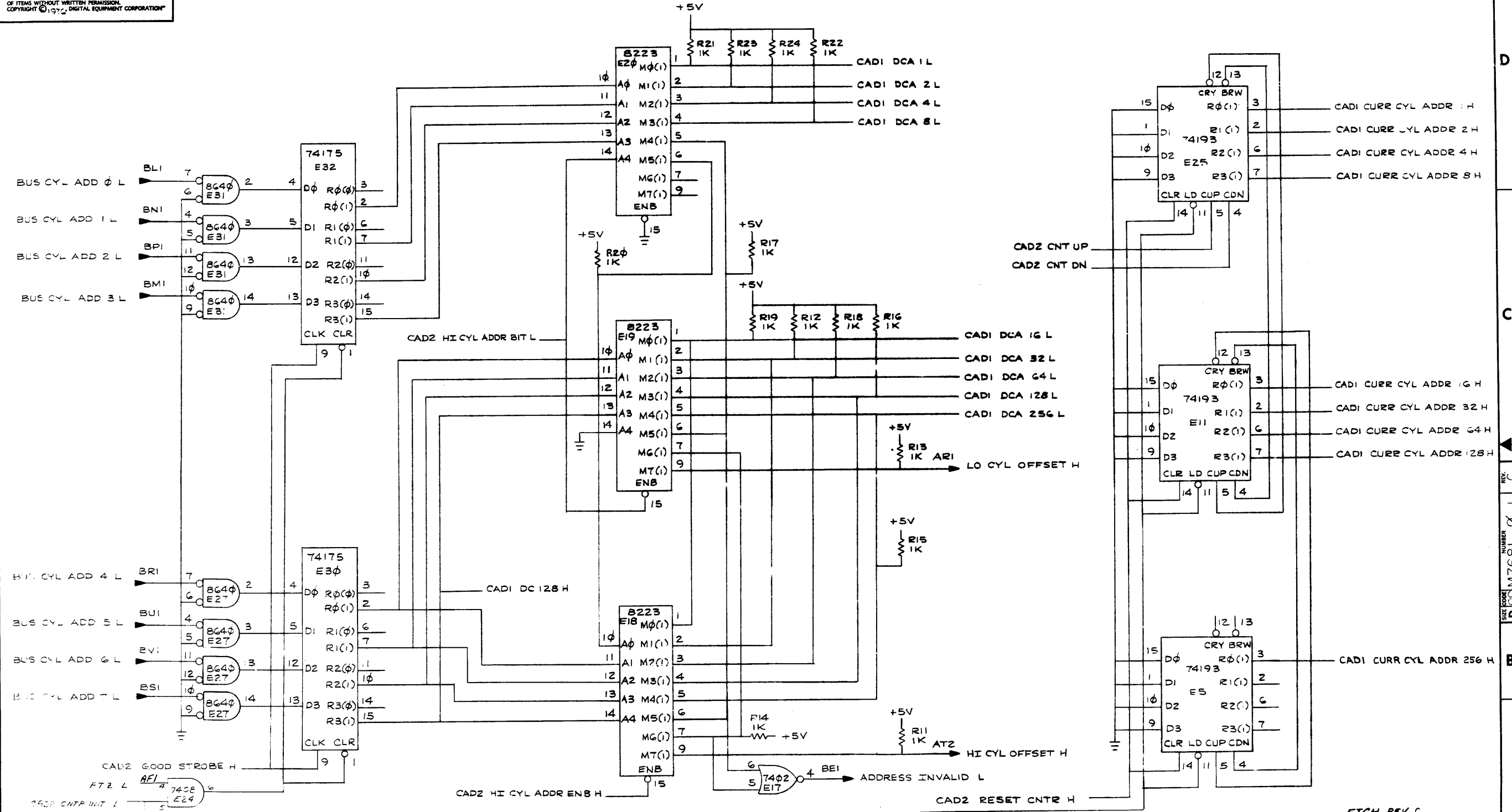


REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	DEC PAK INDEX (IS2) AND SECTOR	SIZE CODE	D CS	NUMBER	M7680-0-1	REV.	A
SCALE	---	SHEET	2	OF 2	DIST.		

SIZE CODE NUMBER DCS M7680-0-1-1
 REV. A

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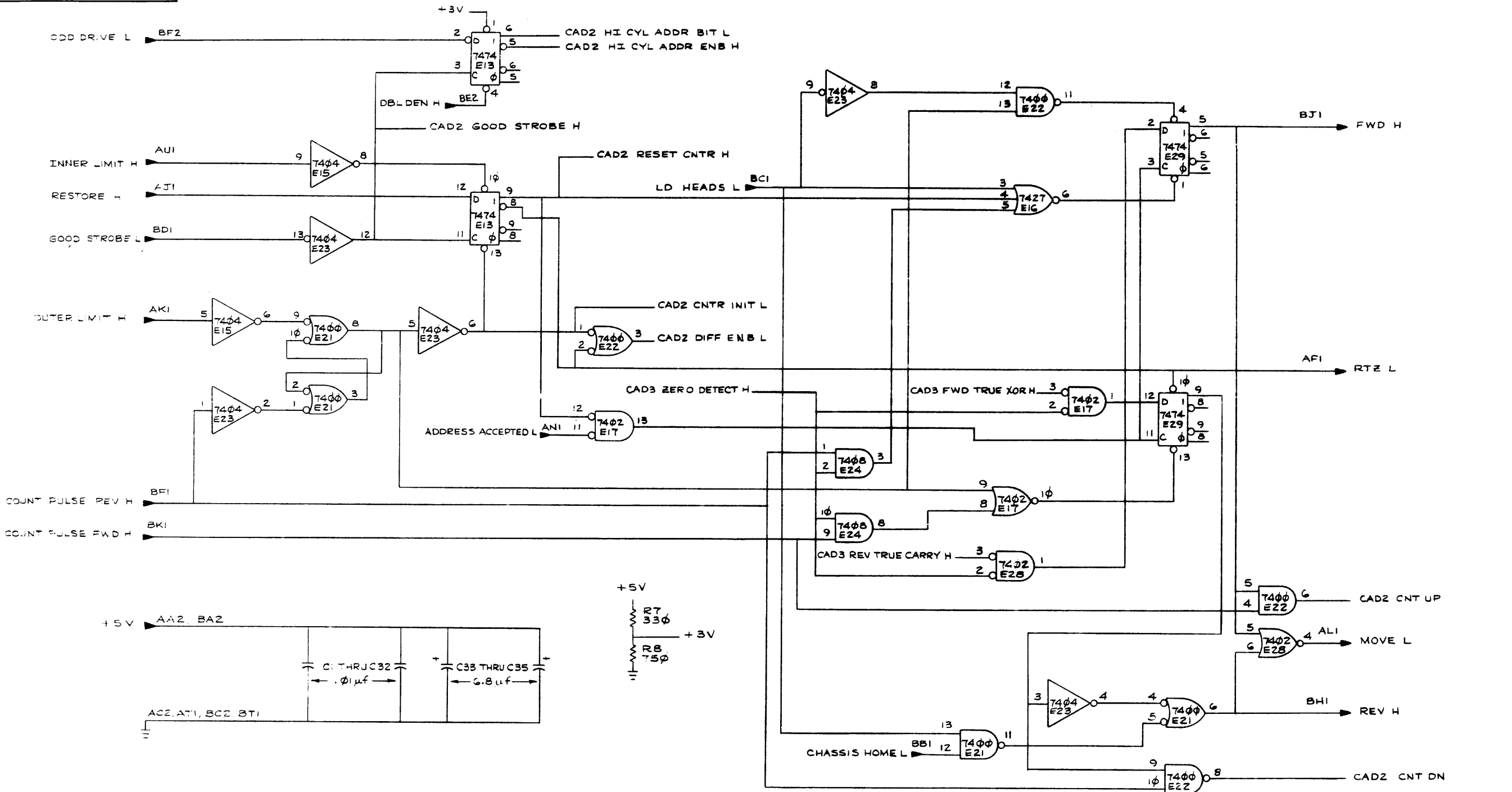
REV.	CHANGE NO.	DATE	BY	CHK
1		1/21/76	J. RINALDI	
2		2/12/76	J. RINALDI	

ETCH REV C

DRN	W. M. WATSON	2/21/76	FIRST USED ON	RK05F	digital
CHK'D	J. RINALDI	2 FEB 76			
ENG.	J. RINALDI	25 FEB 76	TITLE	CYLINDER ADDRESS AND DIFFERENCE (CAD)	
PROJ. ENG.	J. RINALDI		NEXT HIGHER ASSY.	RK05F	
PROD. V.	J. RINALDI	25 FEB 76	D-VA-M7681-0-0	SIZE	CODE
			SCALE	D	CS M7681-0-1
			SHEET	1	OF 3

REC. NUMBER
 CS M7681-0-1
 SIZE CODE
 D

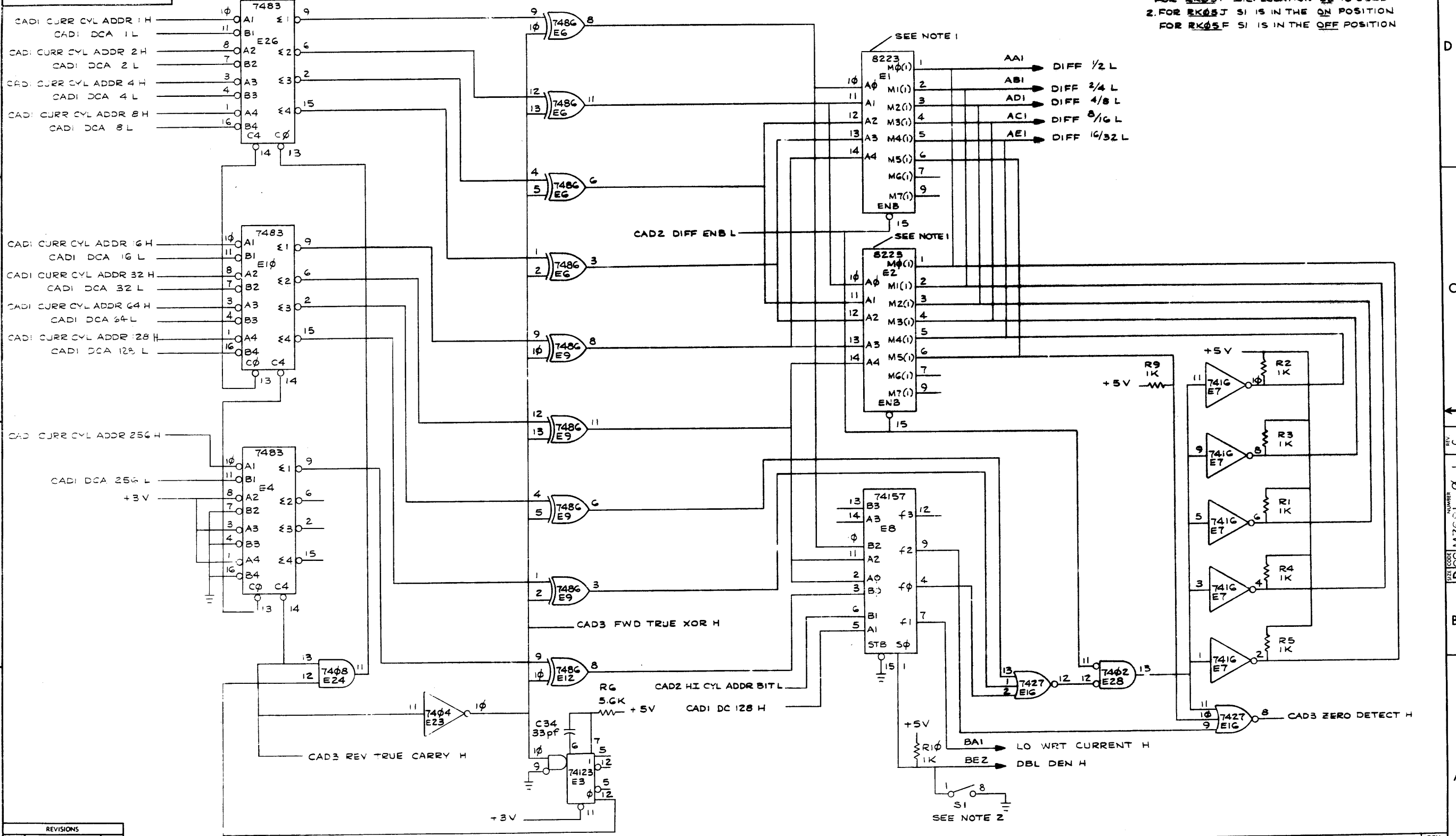
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REVISIONS		
CHK	CHANGE NO	REV

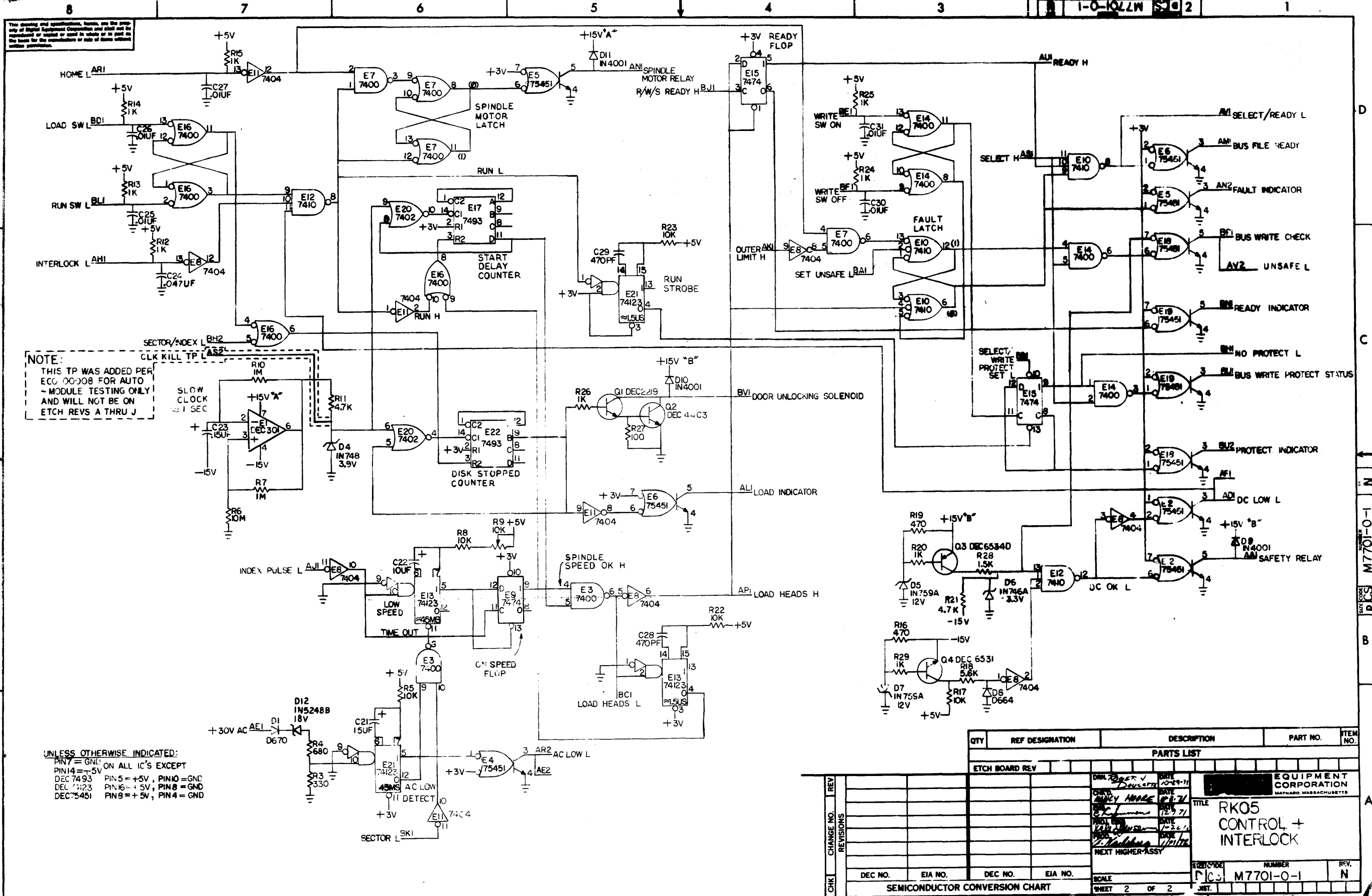
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NOTE:
 1. FOR **RK05J** I.C. LOCATION **E1** IS USED
 FOR **RK05F** I.C. LOCATION **E2** IS USED
 2. FOR **RK05J** **SI** IS IN THE **ON** POSITION
 FOR **RK05F** **SI** IS IN THE **OFF** POSITION



REVISIONS		
CHK	CHANGE NO.	REV.

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NOTE:
THIS TP WAS ADDED PER ECC 00008 FOR AUTO-MODULE TESTING ONLY AND WILL NOT BE ON ETCH REVS A THRU J

UNLESS OTHERWISE INDICATED:
PIN 7 = GND
PIN 14 = +5V ON ALL IC'S EXCEPT
DEC 7493 PIN 5 = +5V, PIN 10 = GND
DEC 7423 PIN 16 = +5V, PIN 8 = GND
DEC 7451 PIN 9 = +5V, PIN 4 = GND

QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
ETCH BOARD REV				
REV	CHG	BY	DATE	DESCRIPTION
1			10-29-71	DRW. REVISION
2			12-9-71	CHRY. MURPHY MOORE
3			1-2-72	PROJ. ENG.
4			1-2-72	1-2-72
5			1-11-72	1-11-72
TITLE				
RK05 CONTROL + INTERLOCK				
REV	CHG	BY	DATE	DESCRIPTION
1				
2				
3				
4				
5				
SEMICONDUCTOR CONVERSION CHART				
DEC NO.	EIA NO.	DEC NO.	EIA NO.	SCALE
SHEET 2 OF 2				

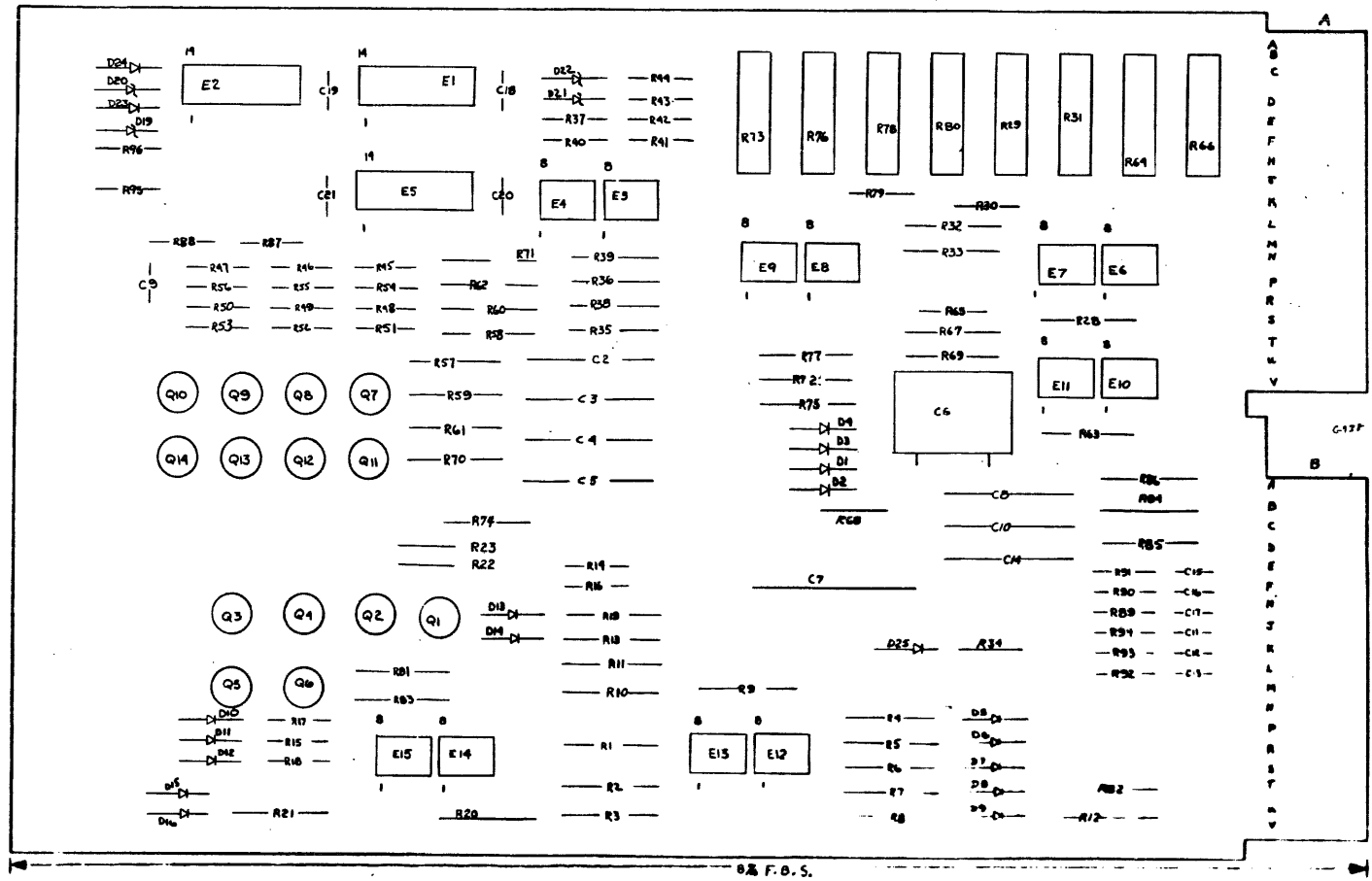
NUMBER M7701-0-1
 SIZE CODE DCS
 NUMBER M7701-0-1

A

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NOTES:

QTY	REF.	DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
8	8	Q1 THRU Q4, Q11 THRU Q14	TRANSISTOR 2N5245	1509681	49
6	6	Q5 THRU Q10	TRANSISTOR DEC 6534D	1503409-00	50
1	1	E1	I.C. DEC 7404	1909686	51
1	1	E2	I.C. DEC 7413	1909989	52
2	2	E3, E4	I.C. DEC 301	1910282	53
1	1	E5	I.C. DEC 7400	1905575	54
7	7	E7, E8, E11 THRU E15	I.C. DEC 72741	1910298-00	53
4	4		EYELET #GS4-7	9006732	56
2	2		HANDLE, FLIP CHIP GREEN	9008337-01	57
A/R	A/R		GRIPLET	1210244-0	58
1	-	R22	RES 200K, 1/8W, 1%	1305336	59
1	-	R23	RES 137K, 1/8W, 1%	1305442	60
2	-	R13, R19	RES 909K, 1/8W, 1%	1304855	61
1	-	R74	RES 2.94K, 1/8W, 1%	1301981	62
3	3	E6, E9, E10	IC DEC 72741	1910298-01	63
1	1	R2	RES 13.3K 1/4W 1% MF	1302565	15
1	1	R3	RES 9.09K 1/8W 1% MF	1304855	16
1	-	R4	RES 34.8K 1/8W 1% MF	1303156	17
1	-	R4	RES 68.1K 1/8W 1% MF	1305252	18
1	-	R5	RES 34.8K 1/8W 1% MF	1303156	19
1	-	R5	RES 21.5K 1/8W 1% MF	1303155	20
1	-	R6	RES 11.5K 1/8W 1% MF	1309415	21
1	-	R6	RES 21.5K 1/8W 1% MF	1303155	22
1	-	R7	RES 5.62K 1/8W 1% MF	1305128	23
1	-	R7	RES 11.5K 1/8W 1% MF	1309415	24
1	-	R8	RES 2.74K 1/8W 1%	1304868	25
1	-	R8	RES 5.62K 1/8W 1%	1305128	26
5	5	R9, R57, R59, R61, R70	RES. 10K 1/8W 1% MF	1303312	27
12	12	R11, R32, R33, R35, R36, R38, R39, R67, R69, R81, R83	RES. 19.6K 1/8W 1% MF	1309419	28
2	2	R12, R72	RES. 6.81K 1/8W 1% MF	1304870	29
1	-	R13, R19	RES. 4.64K 1/8W 1% MF	1304856	30
9	9	R14, R16, R43, R44, R45, R48, R51, R54, R68	RES. 1.5K 1/4W 5%	1300391	31
5	5	R18, R47, R50, R53, R56	RES. 3.9K 1/4W 5%	1300444	32
1	1	R20	RES. 200K 1/8W 1% MF	1305336	33
1	1	R21	RES. 3.83K 1/8W 1% MF	1309413	34
1	-	R22	RES. 100K 1/4W 5%	1302466	35
5	6	R23, R30, R41, R42, R65, R79	RES. 75K 1/4W 5%	1304841	36
5	5	R29, R64, R73, R76, R78	POT. 10K 3/4W 20% 76 PR	1309143-10	37
3	3	R31, R66, R80	POT. 2K 3/4W 10% 76 PR	1309143-08	38
3	3	R37, R40, R87	RES. 330 1/4W 5%	1300295	39
5	5	R58, R60, R62, R71, R82	RES. 511 1/8W 1% MF	1302411	40
1	1	R75	RES. 24.3K 1/8W 1% MF	1309418	41
2	2	R84, R85	RES. 10 1/2W 5%	1300168	42
1	1	R86	RES. 2.7 1/2W 10%	1309444	43
6	6	R89, THRU R94	RES. 22 3/4W 5%	1301969	44
1	1	R88	RES. 750 3/4W 5%	1301401	45
3	3	R28, R63, R77	RES. 1.96K 3/8W 1% MF	1304833	46
1	-	R74	RES. 1.47K 1/8W 1% MF	1305108	47
3	3	R34, R95, R96	RES. 10K 4/4W 5%	1300479	48



QTY	REF.	DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1	1	R2	RES. 13.3K 1/4W 1% MF	1302565	15
1	1	R3	RES. 9.09K 1/8W 1% MF	1304855	16
1	-	R4	RES. 34.8K 1/8W 1% MF	1303156	17
1	-	R4	RES. 68.1K 1/8W 1% MF	1305252	18
1	-	R5	RES. 34.8K 1/8W 1% MF	1303156	19
1	-	R5	RES. 21.5K 1/8W 1% MF	1303155	20
1	-	R6	RES. 11.5K 1/8W 1% MF	1309415	21
1	-	R6	RES. 21.5K 1/8W 1% MF	1303155	22
1	-	R7	RES. 5.62K 1/8W 1% MF	1305128	23
1	-	R7	RES. 11.5K 1/8W 1% MF	1309415	24
1	-	R8	RES. 2.74K 1/8W 1%	1304868	25
1	-	R8	RES. 5.62K 1/8W 1%	1305128	26
5	5	R9, R57, R59, R61, R70	RES. 10K 1/8W 1% MF	1303312	27
12	12	R11, R32, R33, R35, R36, R38, R39, R67, R69, R81, R83	RES. 19.6K 1/8W 1% MF	1309419	28
2	2	R12, R72	RES. 6.81K 1/8W 1% MF	1304870	29
1	-	R13, R19	RES. 4.64K 1/8W 1% MF	1304856	30
9	9	R14, R16, R43, R44, R45, R48, R51, R54, R68	RES. 1.5K 1/4W 5%	1300391	31
5	5	R18, R47, R50, R53, R56	RES. 3.9K 1/4W 5%	1300444	32
1	1	R20	RES. 200K 1/8W 1% MF	1305336	33
1	1	R21	RES. 3.83K 1/8W 1% MF	1309413	34
1	-	R22	RES. 100K 1/4W 5%	1302466	35
5	6	R23, R30, R41, R42, R65, R79	RES. 75K 1/4W 5%	1304841	36
5	5	R29, R64, R73, R76, R78	POT. 10K 3/4W 20% 76 PR	1309143-10	37
3	3	R31, R66, R80	POT. 2K 3/4W 10% 76 PR	1309143-08	38
3	3	R37, R40, R87	RES. 330 1/4W 5%	1300295	39
5	5	R58, R60, R62, R71, R82	RES. 511 1/8W 1% MF	1302411	40
1	1	R75	RES. 24.3K 1/8W 1% MF	1309418	41
2	2	R84, R85	RES. 10 1/2W 5%	1300168	42
1	1	R86	RES. 2.7 1/2W 10%	1309444	43
6	6	R89, THRU R94	RES. 22 3/4W 5%	1301969	44
1	1	R88	RES. 750 3/4W 5%	1301401	45
3	3	R28, R63, R77	RES. 1.96K 3/8W 1% MF	1304833	46
1	-	R74	RES. 1.47K 1/8W 1% MF	1305108	47
3	3	R34, R95, R96	RES. 10K 4/4W 5%	1300479	48

7:741	SEE SMT 2
M 5/41	SEE SMT 2
IC TYPE	GND +5V
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPTIONS ARE STATED ABOVE	
IC PIN LOCATIONS	

REV	DATE	BY	CHKD
1	11-12-77	S. RADOFF	
2	11-12-77	R. VAWLES	
3	11-12-77	J. B. MALDIS	
4	11-12-77	J. RINALDIS	
5	11-12-77	REVISED BY DRANN	
6	11-12-77	CHG DESIG	

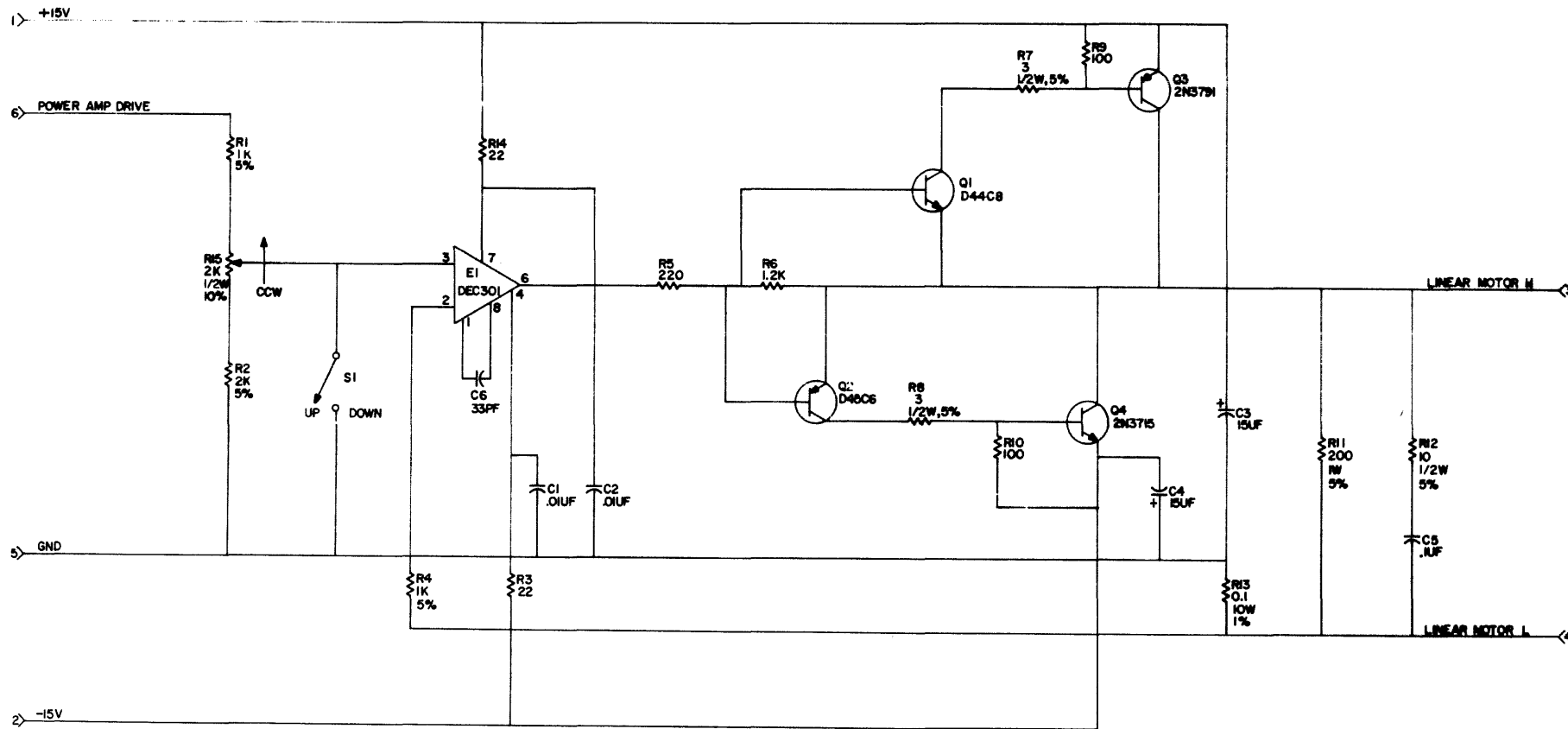
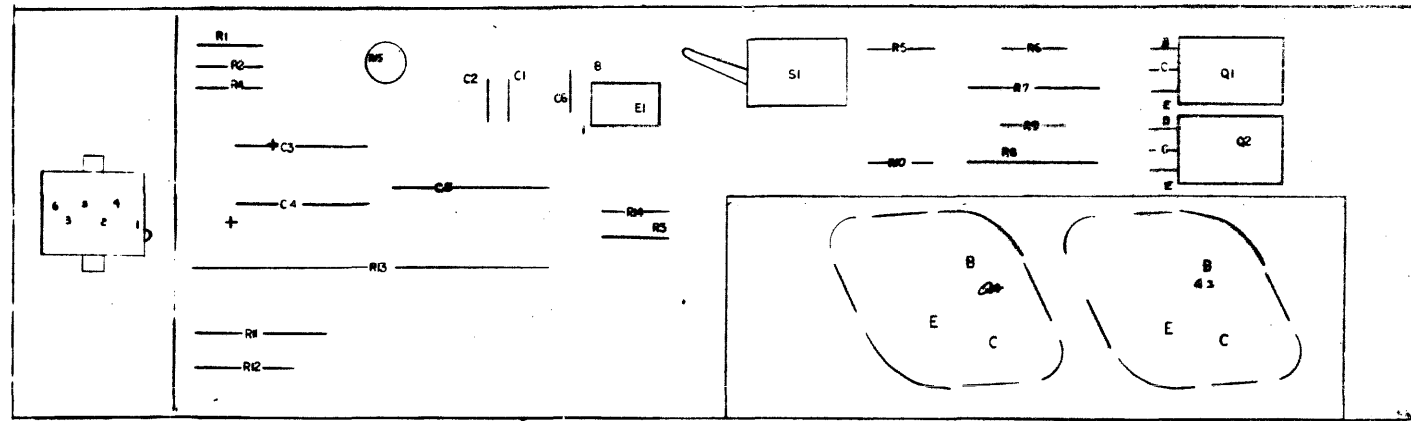
FIRST USED ON OPTION MODEL		PARTS LIST	
ETCH BOARD REV.	K	DIR.	DATE
		R. DOUCETTE	2-9-71
		CHKD. DEVAL	2-9-71
		ENG. D. JENSEN	2-30-71
		PROJ. ENG. D. JENSEN	2-30-71
		PROD. A. KARLSBERG	2-3-72
NEXT HIGHER ASSY			
DEC NO.	EIA NO.	DEC NO.	EIA NO.
65340	NONE		
1746A	SAME		
SEMICONDUCTOR CONVERSION CHART			
SCALE	SHEET 1 OF 2		
SIZE CODE	D CS	NUMBER	G938-2-1
REV.	S		

digital

TITLE DEC PACK HEAD POSITION SERV PREAMP RK5-1

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1-0-108M
REV. 0
1970 1/28



UNLESS OTHERWISE INDICATED:
RES. ARE 1/4W, 10%
R13 IS A CURRENT SAMPLING RES.

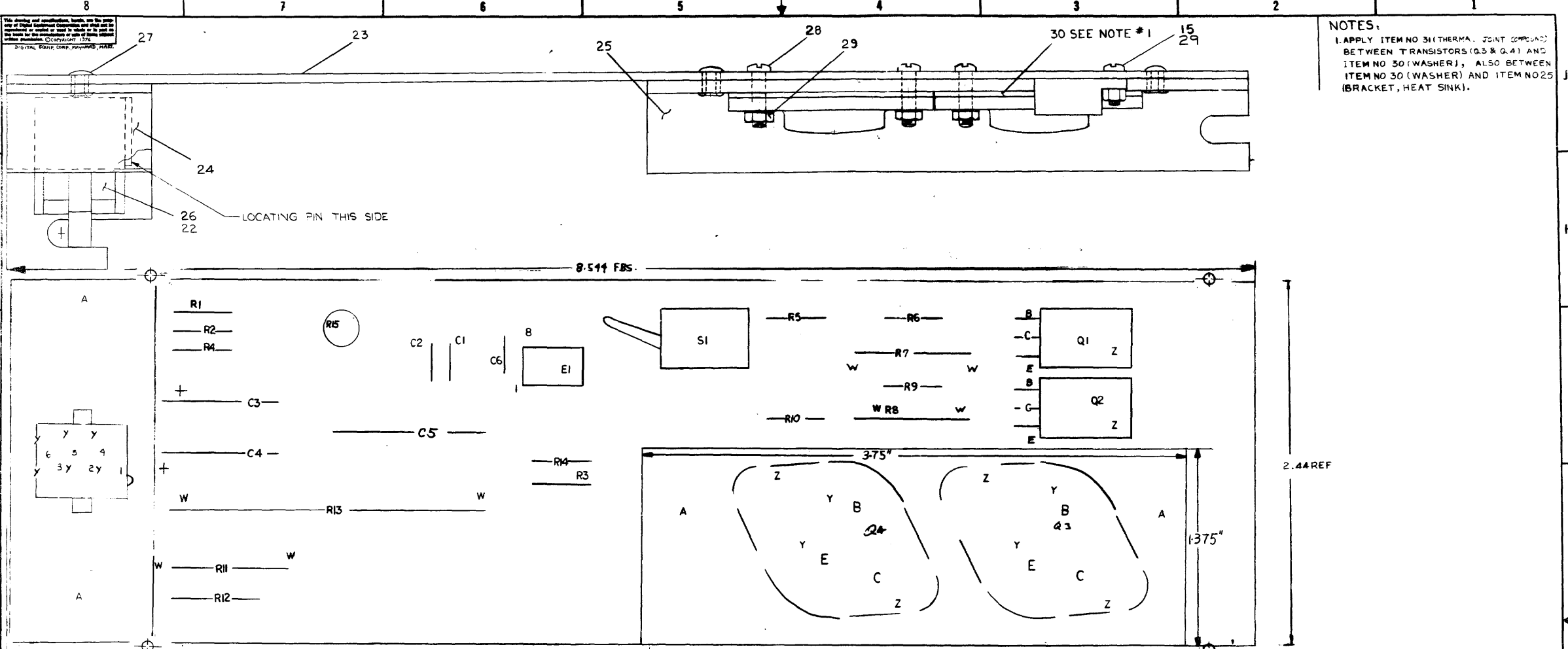
REVISIONS	DATE	BY	CHKD
1	11/13/71	E. J. JENSEN	D. JENSEN
2	12-7-71	D. JENSEN	D. JENSEN
3	12-22-71	D. JENSEN	D. JENSEN
4	12-22-71	D. JENSEN	D. JENSEN
5	12-22-71	D. JENSEN	D. JENSEN
6	12-22-71	D. JENSEN	D. JENSEN
7	12-22-71	D. JENSEN	D. JENSEN
8	12-22-71	D. JENSEN	D. JENSEN
9	12-22-71	D. JENSEN	D. JENSEN
10	12-22-71	D. JENSEN	D. JENSEN
11	12-22-71	D. JENSEN	D. JENSEN
12	12-22-71	D. JENSEN	D. JENSEN
13	12-22-71	D. JENSEN	D. JENSEN
14	12-22-71	D. JENSEN	D. JENSEN
15	12-22-71	D. JENSEN	D. JENSEN
16	12-22-71	D. JENSEN	D. JENSEN
17	12-22-71	D. JENSEN	D. JENSEN
18	12-22-71	D. JENSEN	D. JENSEN
19	12-22-71	D. JENSEN	D. JENSEN
20	12-22-71	D. JENSEN	D. JENSEN

DATE	11/13/71
DATE	12-7-71
DATE	12-22-71
DATE	12-22-71
DATE	12-22-71

TRANSISTOR & DIODE CONVERSION CHART			
MANUFACTURER	TYPE	DEC	EIA

EQUIPMENT CORPORATION		RAYBURN, MASSACHUSETTS	
TITLE	DECPAK HEAD POS. SERVO PWR. AMP.	SALE	REV
CODE	CS	NUMBER	H604-0-1
PRINTED CIRCUIT	REV	K	

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NOTES:
 1. APPLY ITEM NO 31 (THERMAL JOINT COMPOUND) BETWEEN TRANSISTORS (Q3 & Q4) AND ITEM NO 30 (WASHER), ALSO BETWEEN ITEM NO 30 (WASHER) AND ITEM NO 25 (BRACKET, HEAT SINK).

IC TYPE	GND	+5V	ITEM NO	AWG	FROM PT	TO PT
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY. EXCEPTIONS ARE STATED ABOVE.						
IC PIN LOCATIONS						

REF	ASSY. HOLE DRILLING LAYOUT	D.H.N. H604-7-5.3.3
1	COMPOUND THERMAL JOINT	9008266
2	INSULATOR WASHER	9006721
3	KEP NUT 4-40	9006337
4	SCR. BINDER HD. SLOTTED #4-4X.44	900602-4
4	EYELET .12100 X .219LG	9006732
1	HOUSING 6 PIN MATE-N-LOCK	1209350-06
1	BRACKET, HEAT SINK	C-MD-5509810-00
1	BRACKET, SERVO BOARD	C-MD-5509610-00
1	ETCHED CIRCUIT BOARD	5009141
6	PINS FOR MATE-N-LOCK	1209456-01
1	EI	IC LM301
1	Q-4	TRANS 2N3715
1	Q-3	TRANS 2N3791
1	Q-2	TRANS DEC D45C6
1	Q-1	TRANS DEC D44C8 OR TIP 31A
2	R4, R1	RES 1K, .25W, 5%
2	R10	SCREWS 4-40XHA BINDER HD. SLOTTED
1	R15	POT 2K 1/2W 10% 62 PR
1	R6	RES 1.2K, .25W, 5%
1	R5	RES 220, .25W, 5%
1	R11	RES 200, 1W, 5%
2	R9, R10	RES 100, .25W, 5%
2	R3, R14	RES 10, .25W, 5%
1	R12	RES 10, .5W, 5%
1	R7, R8	RES 3, 0.2W, 5%
1	R13	RES 1, 10W, 1%
1	S1	SWITCH, TOGGLE T-8001
2	C3, C4	CAP 15UF, 20V, 10%
1	C6	CAP 33PF, 100V, 5%
1	C5	CAP .1UF, 100V, 10%
2	C1, C2	CAP .01UF, 50V, 20%
1	REF	MODULE ECO HISTORY
36	REF	X-Y COORDINATE HOLE LOCATION
34	REF	CIRCUIT SCHEMATIC

1	R2	RES 2K 1/4W 5%	1302388	36
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QTY.	REF DESIGNATION	DESCRIPTION	PART NO.

DATE	BY	DESCRIPTION
11/17/74	[Signature]	REVISED
11/17/74	[Signature]	REVISED
11/17/74	[Signature]	REVISED
11/17/74	[Signature]	REVISED

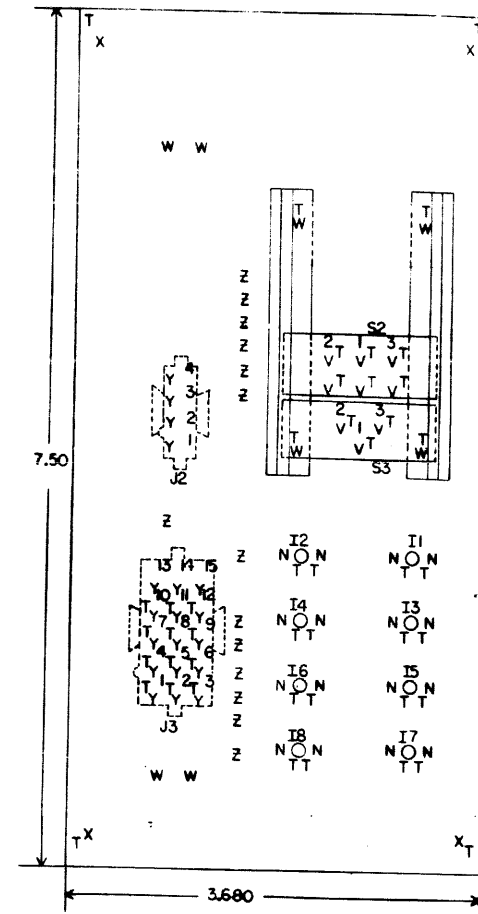
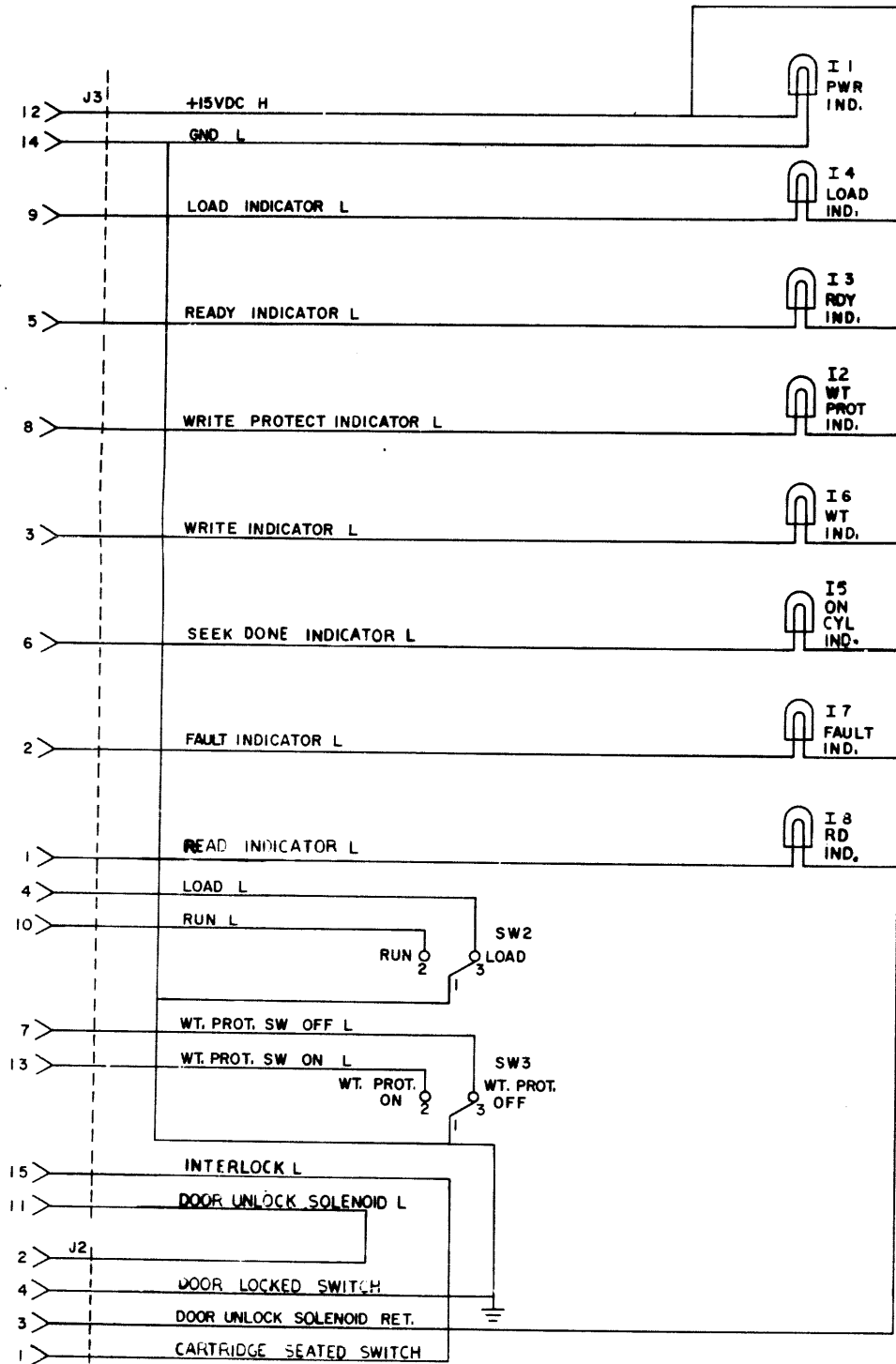
DEC NO.	EIA NO.	DEC NO.	EIA NO.

DATE	BY	DESCRIPTION
11/17/74	[Signature]	REVISED

EQUIPMENT CORPORATION
 HEAD POSITION
 SERVO POWER AMP

REV. 4/71
 EUA H604-7-7

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REV.	CHK'D	DATE
1	D. TENSEN	11-20-71
2	D. TENSEN	11-20-71
3	D. TENSEN	11-20-71
4	D. TENSEN	11-20-71
5	D. TENSEN	11-20-71
6	D. TENSEN	11-20-71
7	D. TENSEN	11-20-71
8	D. TENSEN	11-20-71
9	D. TENSEN	11-20-71
10	D. TENSEN	11-20-71
11	D. TENSEN	11-20-71
12	D. TENSEN	11-20-71
13	D. TENSEN	11-20-71
14	D. TENSEN	11-20-71
15	D. TENSEN	11-20-71
16	D. TENSEN	11-20-71
17	D. TENSEN	11-20-71
18	D. TENSEN	11-20-71
19	D. TENSEN	11-20-71
20	D. TENSEN	11-20-71
21	D. TENSEN	11-20-71
22	D. TENSEN	11-20-71
23	D. TENSEN	11-20-71
24	D. TENSEN	11-20-71
25	D. TENSEN	11-20-71
26	D. TENSEN	11-20-71
27	D. TENSEN	11-20-71
28	D. TENSEN	11-20-71
29	D. TENSEN	11-20-71
30	D. TENSEN	11-20-71

DRN.	S. COOPER	DATE	11-20-71
CHK'D		DATE	
ENG.	D. TENSEN	DATE	11-20-71
PRCD.		DATE	

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

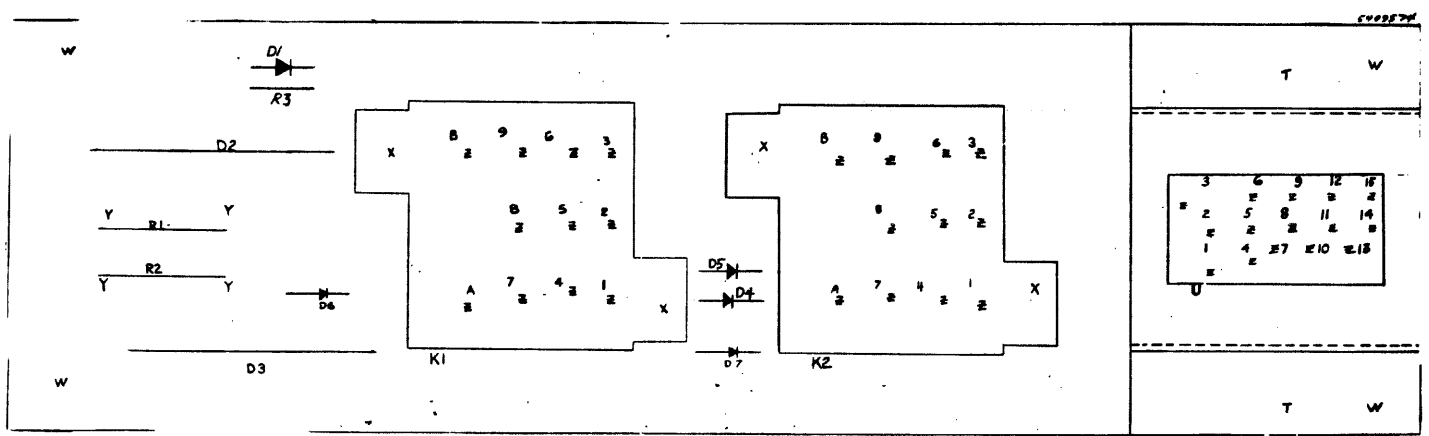
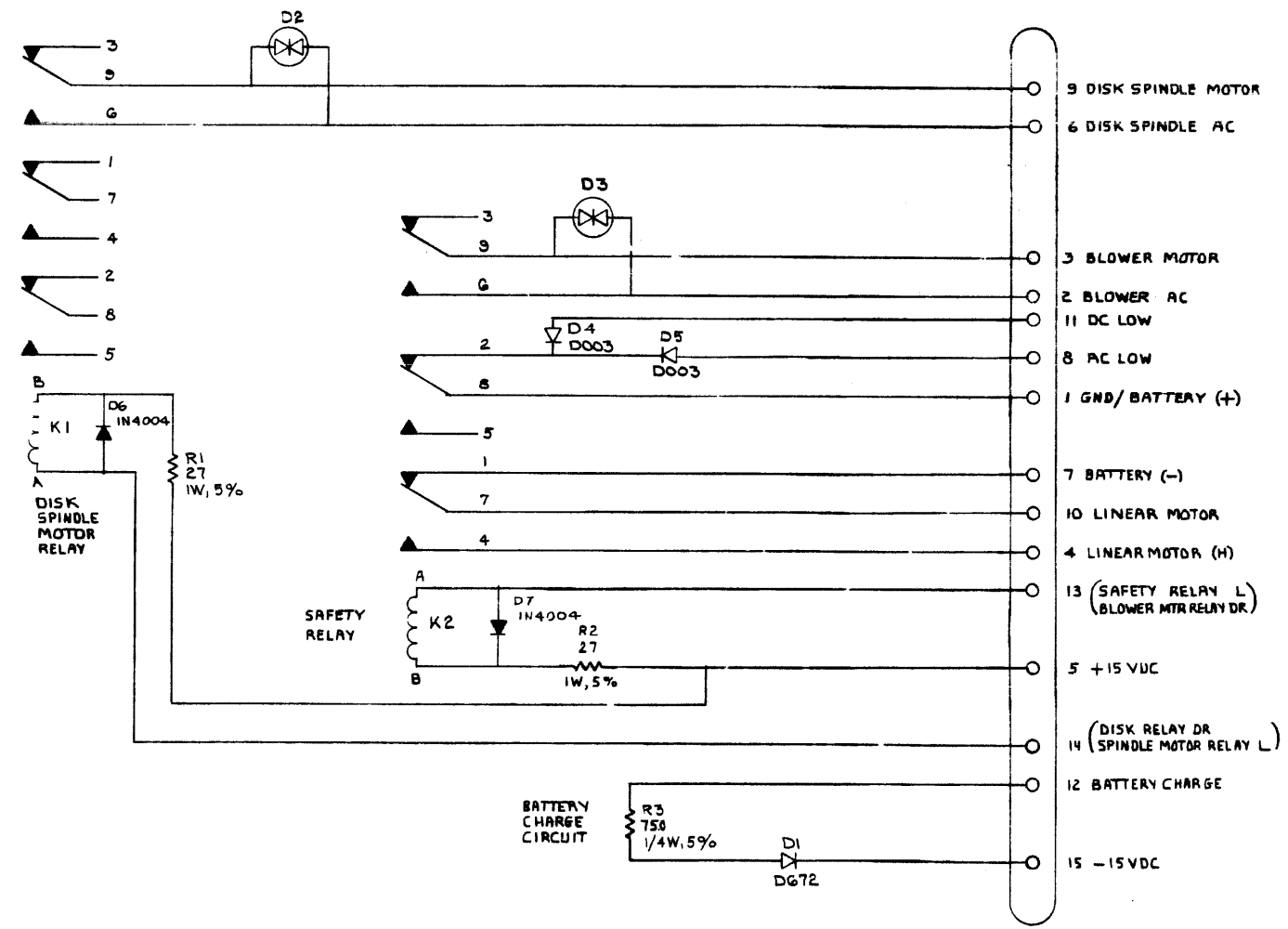
digital
EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE		RK05 CONTROL PANEL		REV	RK7-1
SIZE	CODE	NUMBER	REV		
C	CS	5409698-0-1			
PRINTED CIRCUIT REV					

REV. 1
NUMBER 5409698-0-1
SIZE CODE C CS

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- NOTE:**
1. RELAY CONTACTS ARE SHOWN IN THE DE-ENERGIZED POSITIONS.
 2. SAFETY RELAY L AND BLOWER MTR RELAY DR ARE THE SAME SIGNAL.
 3. SPINDLE MOTOR RELAY L AND DISK RELAY DR ARE THE SAME SIGNAL.
 4. THIS MODULE MUST BE UL APPROVED



QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
	D003	IN994		
	D672	IN3653		

DATE	BY	DESCRIPTION
12-9-71	DAN ROOPER	CHK'D
12-15-71
12-20-71
12-28-71
1-1-72

DEC NO.	EIA NO.	DEC NO.	EIA NO.

SCALE	SHEET	OF	DIST.

REVISIONS

1. RINALDIS 11/17/71

2. ... 3-ANU-75

3. ... 1/15/75

4. ... 2/1/75

5. ... 2/1/75

6. ... 2/1/75

7. ... 2/1/75

8. ... 2/1/75

9. ... 2/1/75

10. ... 2/1/75

11. ... 2/1/75

12. ... 2/1/75

13. ... 2/1/75

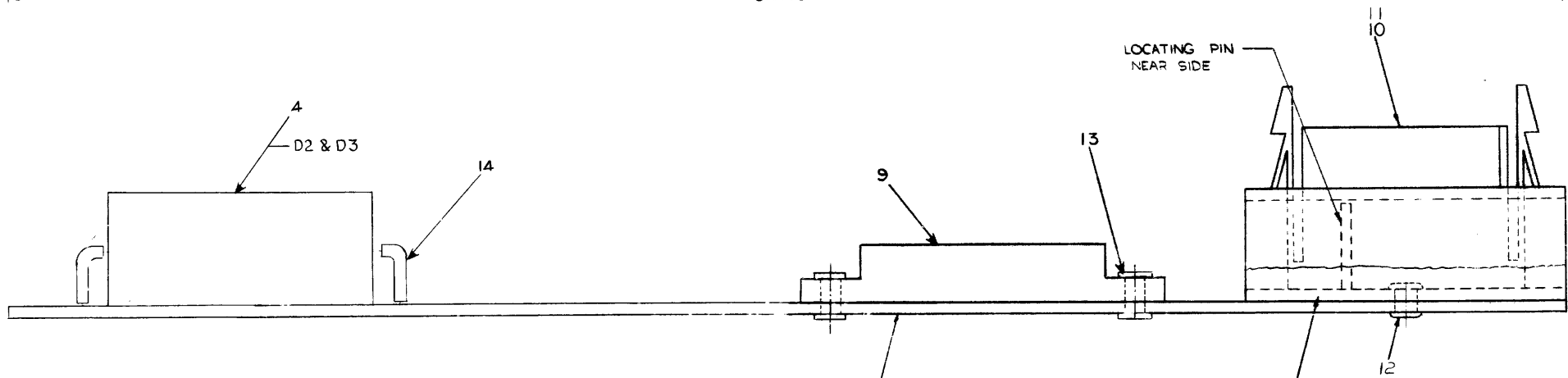
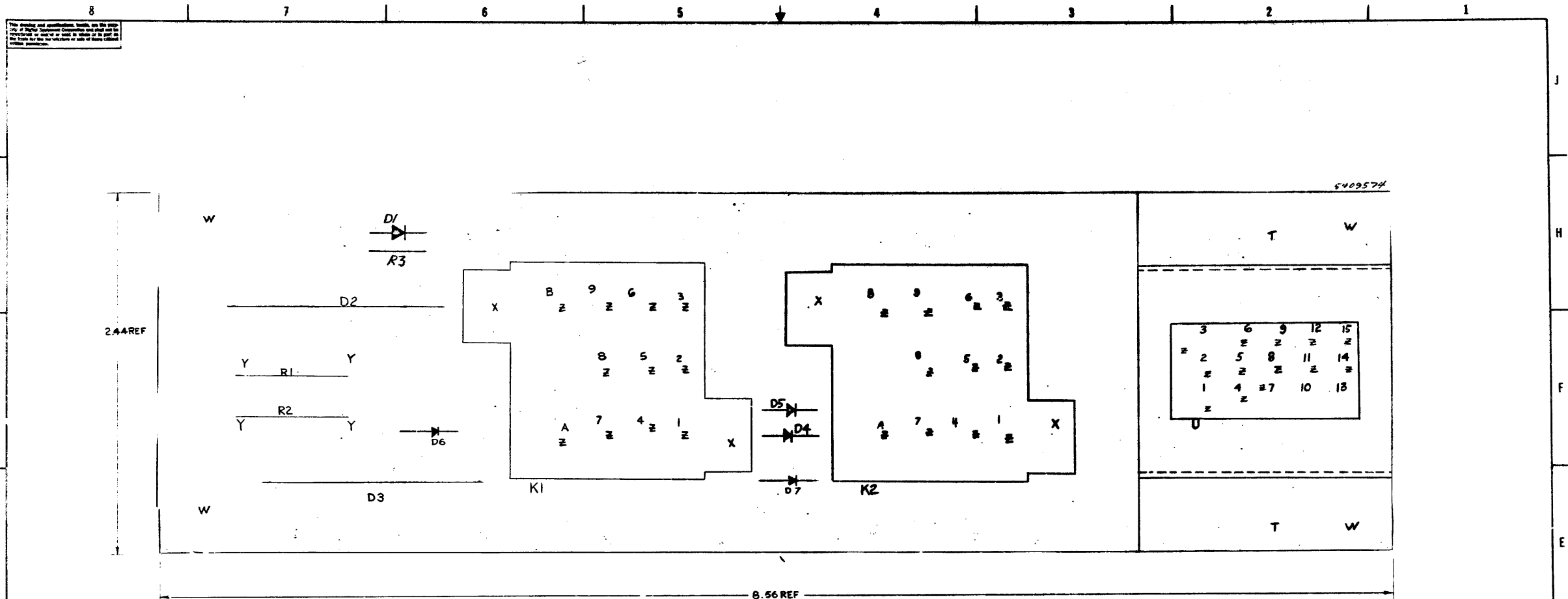
14. ... 2/1/75

15. ... 2/1/75

PART NO. 5409574-0-1
 REV. H
 DCS

DEC PACK MOTOR RELAYS

DCS 5409574-0-1



IC TYPE	GRID	±5V	ITEM NO.	AWG	FROM PT.	TO PT.
GRD AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY. EXCEPTIONS ARE STATED ABOVE.						
IC PIN LOCATIONS				JUMPER LIST		

1. 5409574-00003 L
 2. 5409574-00003 L
 3. 5409574-00003 L
 4. 5409574-00003 L
 5. 5409574-00003 L
 6. 5409574-00003 L
 7. 5409574-00003 L
 8. 5409574-00003 L
 9. 5409574-00003 L
 10. 5409574-00003 L
 11. 5409574-00003 L
 12. 5409574-00003 L
 13. 5409574-00003 L
 14. 5409574-00003 L

CAUTION
CHANGE COULD AFFECT U.L. LISTING

FIRST USED ON
RK05

QTY.	REF DESIGNATION	DESCRIPTION	PART NO.
2	D6, D7	DIODE IN4004	1105796
REF		ASSY-HOLE DRILLING LAYOUT	DWM-5409574-0-5/15
REF		TUBING 1/8" AWG TEFLON	9107278-11
4		EYELET 65-4-9	5006746
2		EYELET J21 0PX-219LG	5006732
15		PINS FOR MATE-N-LOCK	1209456-01
15		15 PIN MATE-N-LOCK	209380-15
1		RELAY 24VDC	110484
1	K1, K2	RELAY 24VDC	110484
1	R1, R2	RESISTOR 27 1/4W 5%	1501816
1	R3	RESISTOR 750 1/4W 5%	1101401
1	D1	DIODE 1N4004	1105796
2	D2, D3	DIODE SUPPLIER 20S1P484	1100105
2	D4, D5	DIODE 1N4004	1100100
1		ETCHED CIRCUIT BOARD	5009573
REF		MODULE 820 HISTORY	5409574-0-0
REF		RELAY MOTOR RELAY	5409574-0-0
REF		XY COORD. HOLE LOCAT	5409574-0-0
REF		CIRCUIT SCHEMATIC	5409574-0-0

ETCH BOARD REV	F	DATE	BY	DESCRIPTION
D-672	IN 3653			
D-007	IN 894			
BEC NO.	EIA NO.	BEC NO.	EIA NO.	

EQUIPMENT CORPORATION
 DECPACK
 MOTOR RELAYS
 EIA 5409574-0-0

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INTERFACE CABLE

FILE READY	E08-N1
HEAD SELECT L	E08-M2
WRITE PROTECT STATUS L	E08-P1
ERASE GATE	E08-K1
WRITE CHECK L	E08-S1
SEEK INCOMPLETE	E08-S2
R/W/S READY L	A08-M2
WRITE 3-7 L	A08-L2
STROBE	E08-H1
SELECT 0 L	A08-J2
ADDRESS INVALID	A08-T2
SELECT 1 L	A08-K2
ADDRESS ACCEPTED L	A08-R2
SELECT 2 L	A08-L2
READ CLOCK	B08-S1
READ DATA	B08-S2
SELECT 3 L	A08-M2
WRITE DATA AND CLOCK L	A08-F2
SECTOR PULSE L	B08-N2
CYLINDER ADDRESS 0 L	A08-W1
CYLINDER ADDRESS 1 L	A08-D1
CYLINDER ADDRESS 2 L	A08-L1
CYLINDER ADDRESS 3 L	A08-C1
CYLINDER ADDRESS 4 L	A08-F1
CYLINDER ADDRESS 5 L	A08-J1
CYLINDER ADDRESS 6 L	A08-E1
CYLINDER ADDRESS 7 L	A08-H1
INDEX PULSE L	B08-M1
SECTOR ADDRESS 0 L	B08-L1
SECTOR ADDRESS 1 L	A08-P2
SECTOR ADDRESS 2 L	B08-K2
SECTOR ADDRESS 3 L	B08-J1
WRITE PROTECT SET L	B08-R2
RESTORE L	A08-M1
READ GATE L	B08-R1
AC LOW	B08-F1
DC LOW	B08-P2
HIGH DENSITY L	B08-P2

LOGIC ASSEMBLY

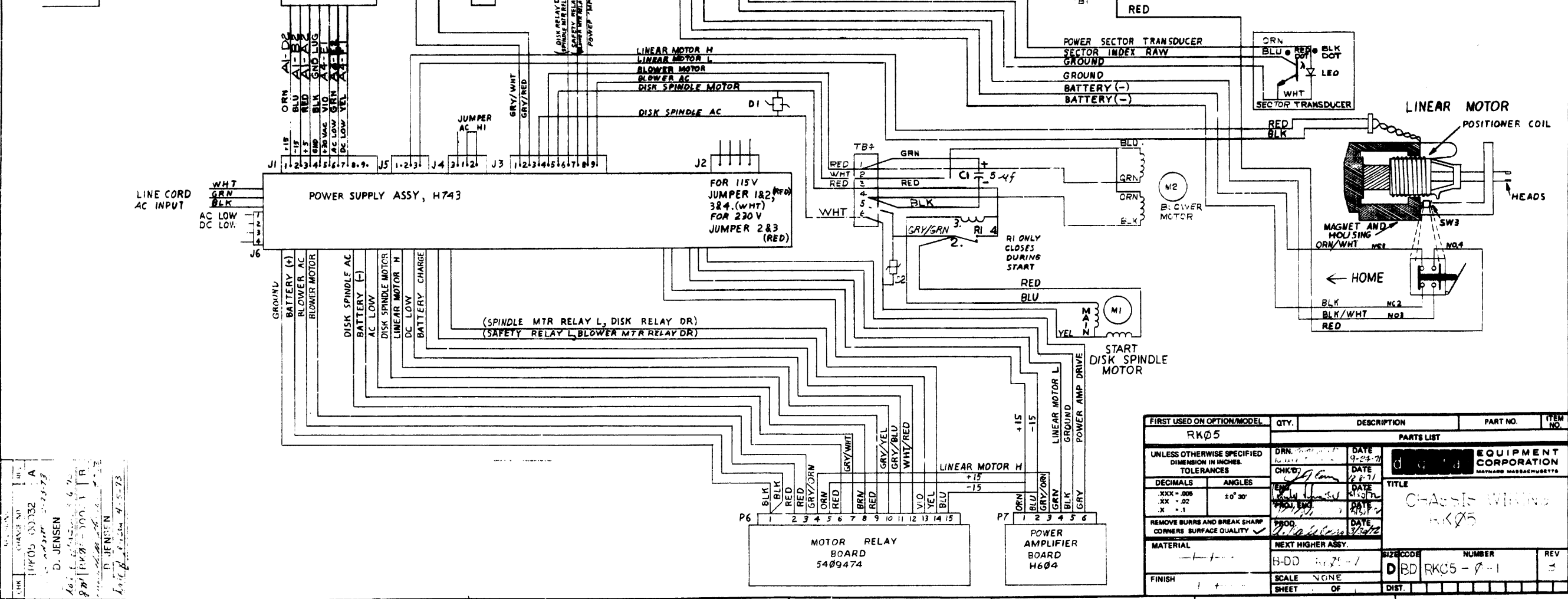
A06 J1	GRN
A06 H1	ORN/BLK
A06 E1	RED/WHT
A06 K1	GRN/BLK
A06 B1	BLK/WHT
A06 F1	ORN
A06 N1	BLU/BLK
A06 C1	RED
A06 A1	BLK
A06 L1	GRN/WHT
A06 P1	BLU/WHT
A06 D1	RED/BLK
A06 M1	RED/BLK
A06 I1	BLU
A06 T1	WHT/BLK
A06 R1	WHT
B06 B1	BLK/WHT
B06 E1	RED/WHT
B06 D1	RED/BLK
B06 J1	GRN
B06 H1	ORN/BLK
B06 S1	WHT
B06 F1	ORN
B06 A1	BLK
B06 C1	RED

B06 K1	GRN/BLK	3
B06 L1	GRN/WHT	1
B06 M1	WHT/BLK	2
B06 N1	BLU	5
B06 O1	BLU/BLK	6
B06 P1	BLU/WHT	4
B06 Q1	BLK	7
B06 R1	BLK	8
B06 S1	BLK	9

READ IND	1
FAULT IND	2
WRITE IND	3
LOAD SW L	4
READY IND	5
SEEK DONE (ONCYL)	6
WRITE PROT SW OFF	7
WRITE PROT IND	8
LOAD IND	9
RUN SW L	10
DOOR UNLOCK SOLENOID L	11
+15V	12
WRITE PROT SW ON	13
GND	14
INTERLOCK L	15

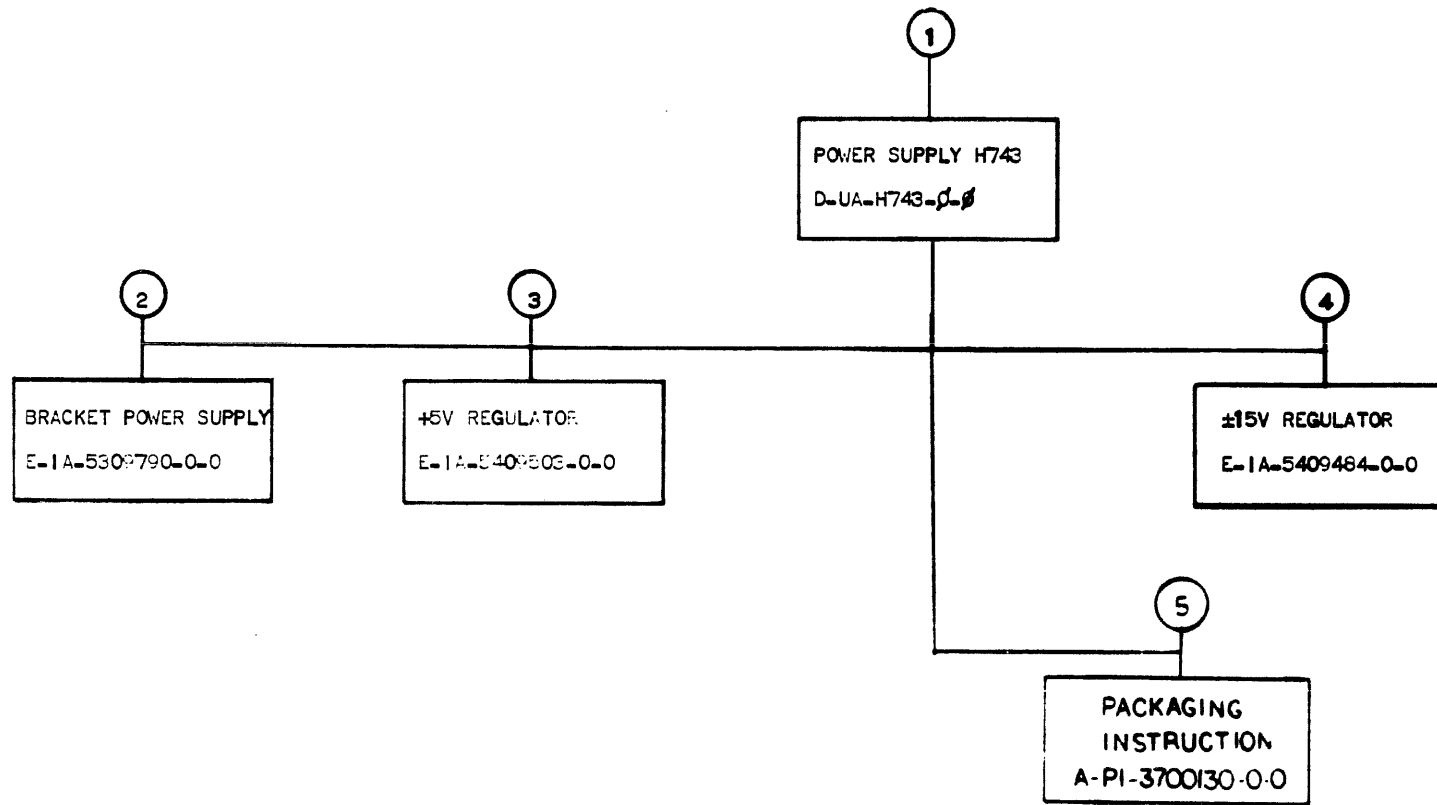
NOTES:

1. SAFETY RELAY AND BLOWER MTR RELAY DR ARE THE SAME SIGNAL.
2. SPINDLE MOTOR RELAY L AND DISK RELAY DR ARE THE SAME SIGNAL.



APPROVED: D. JENSEN
 DATE: 9-23-71
 DRAWING NO: 1005-00032-A
 REV: 1

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
RK05				
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES				
DECIMALS	ANGLES	PARTS LIST		
.XXX = .005	±0°30'	DRN. DATE 9-23-71	EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS	
.XX = .02		CHK'D. DATE 10-9-71	TITLE CHASSIS WIRING RK05	
.X = .1		ENG. DATE 10-9-71	REV 3	
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY		PROD. DATE 10-9-71	MATERIAL NEXT HIGHER ASSY.	
			SIZE CODE H-DD	
			NUMBER D BD RK05-0-1	
			SCALE NONE	
			SHEET OF	



TITLE	SHEET 2 OF 3	SIZE CODE	NUMBER	REV
POWER SUPPLY (H743)	B DD	H743-0		

WIRE TABLE

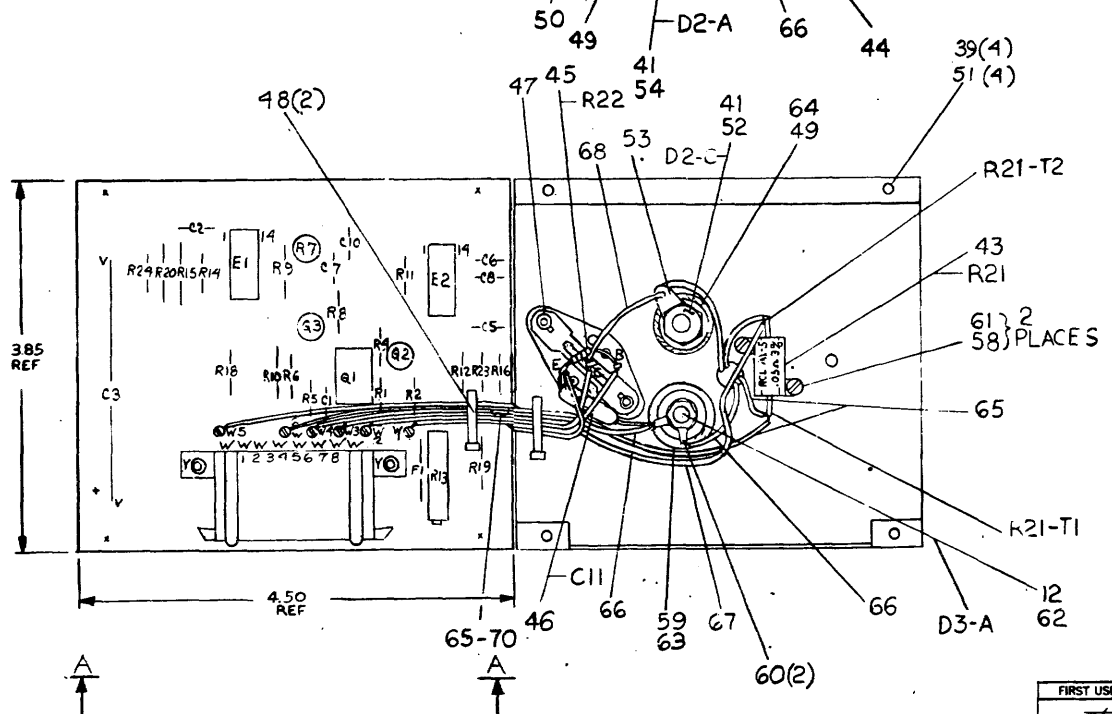
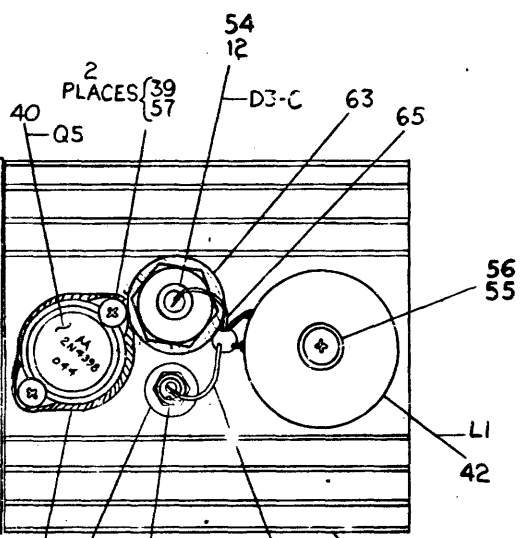
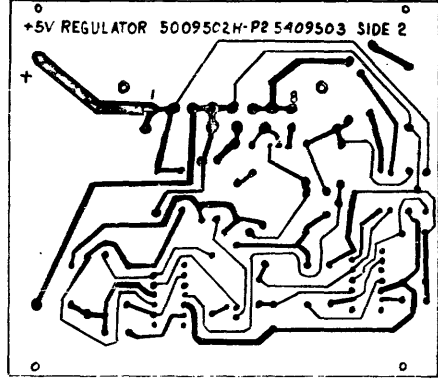
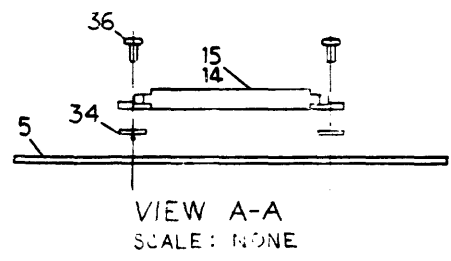
ITEM NO.	AWG	COLOR	IN. ± 1/8	LENGTH-X	LENGTH-Y	CONNECTIONS
42	—	BLK	2 1/8	—	1/2"	L1 TO D2 CATHODE
42	—	BLK	2 1/8	—	1/2"	L1 TO R21-T2
68	18	VIO	2 1/4	1/2"	1/2"	Q5-C TO CATHODE D2
66	—	GRN	4 1/4	1/2"	1/2"	D2 ANODE TO ANODE D3
65	—	YEL	4 1/8	1/2"	1/2"	D3 CATHODE TO R21-T1
70	—	WHT	4 3/8	1/2"	1/2"	SPLIT LUG *1 TO Q5-E
69	—	GRY	5 1/4	1/2"	1/2"	SPLIT LUG *2 TO Q5-B
68	—	VIO	5 1/4	1/2"	1/2"	SPLIT LUG *3 TO Q5-C
67	—	BLU	8	1/2"	1/2"	SPLIT LUG *4 TO R21-T2
66	—	GRN	5 3/4	1/2"	1/2"	SPLIT LUG *6 TO ANODE D3
65	18	YEL	8 1/4	1/2"	1/2"	SPLIT LUG *5 TO R21-T1

EXTERNAL COMPONENTS

ITEM NO.	LENGTH	DESCRIPTION	POL.	CONNECTIONS	POL.
45	NOTE *2	RES. 100 Ω W5%		Q5-E	Q5-B
46	NOTE *3	CAP. 100 μF 50V 10%	+	Q5-E	D3 ANODE LUG -

NOTES:

- R13 IS USED FOR OUTPUT VOLTAGE ADJUSTMENT. R7 IS USED FOR OUTPUT CURRENT ADJUSTMENT.
- CUT LEADS OF RES. (R22) SO THERE IS 3/8" OF A LEAD LEFT ON BOTH ENDS. R22
- CUT LEADS OF CAP. (C11) SO THERE IS 1/2" OF A LEAD LEFT ON BOTH ENDS. C11
- THERMAL COMPOUND (ITEM 31) IS TO BE APPLIED TO BOTH SIDES OF ALL THERMAL INSULATORS (ITEM 49, 50 & 63). BOTH SIDES OF EACH INSULATOR SHOULD BE COVERED, LEAVING NO VOIDS WHEN INSTALLED. CARE MUST BE EXERCISED SO THAT NO EXTRA COMPOUND INTERFERES WITH ANY ELECTRICAL CONNECTION MADE TO ANY DEVICE.
- WHEN ASSEMBLING THE WIRES FROM THE CIRCUIT BOARD TO THE HEAT SINK, PLACE THE MODULE AGAINST THE HEAT SINK, WIRE AS SHOWN BY THE WIRE LIST AND MAKE A SERVICE LOOP AT THE CONNECTIONS ON THE HEAT SINK TO TAKE UP ANY EXCESS WIRE THAT MIGHT BE AVAILABLE.

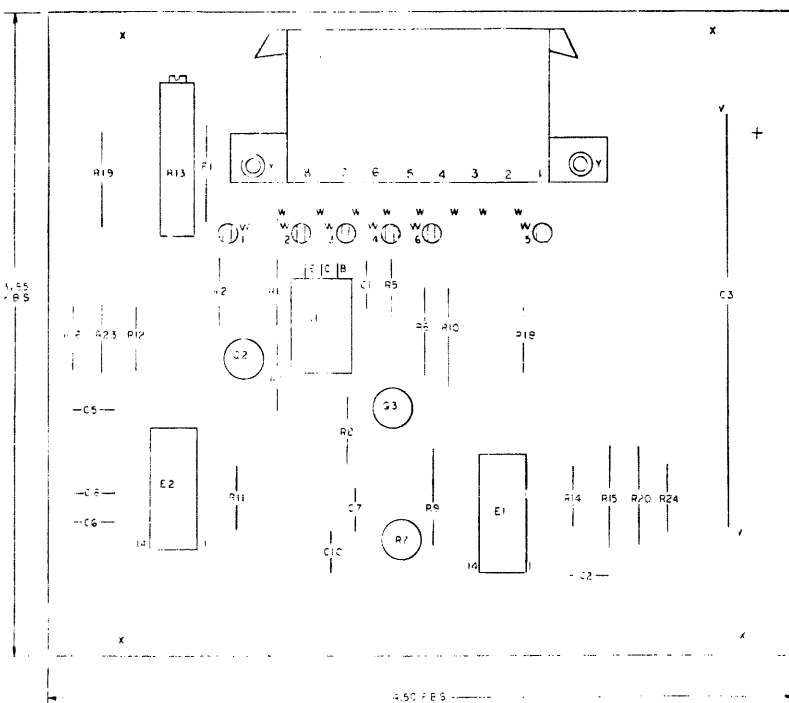
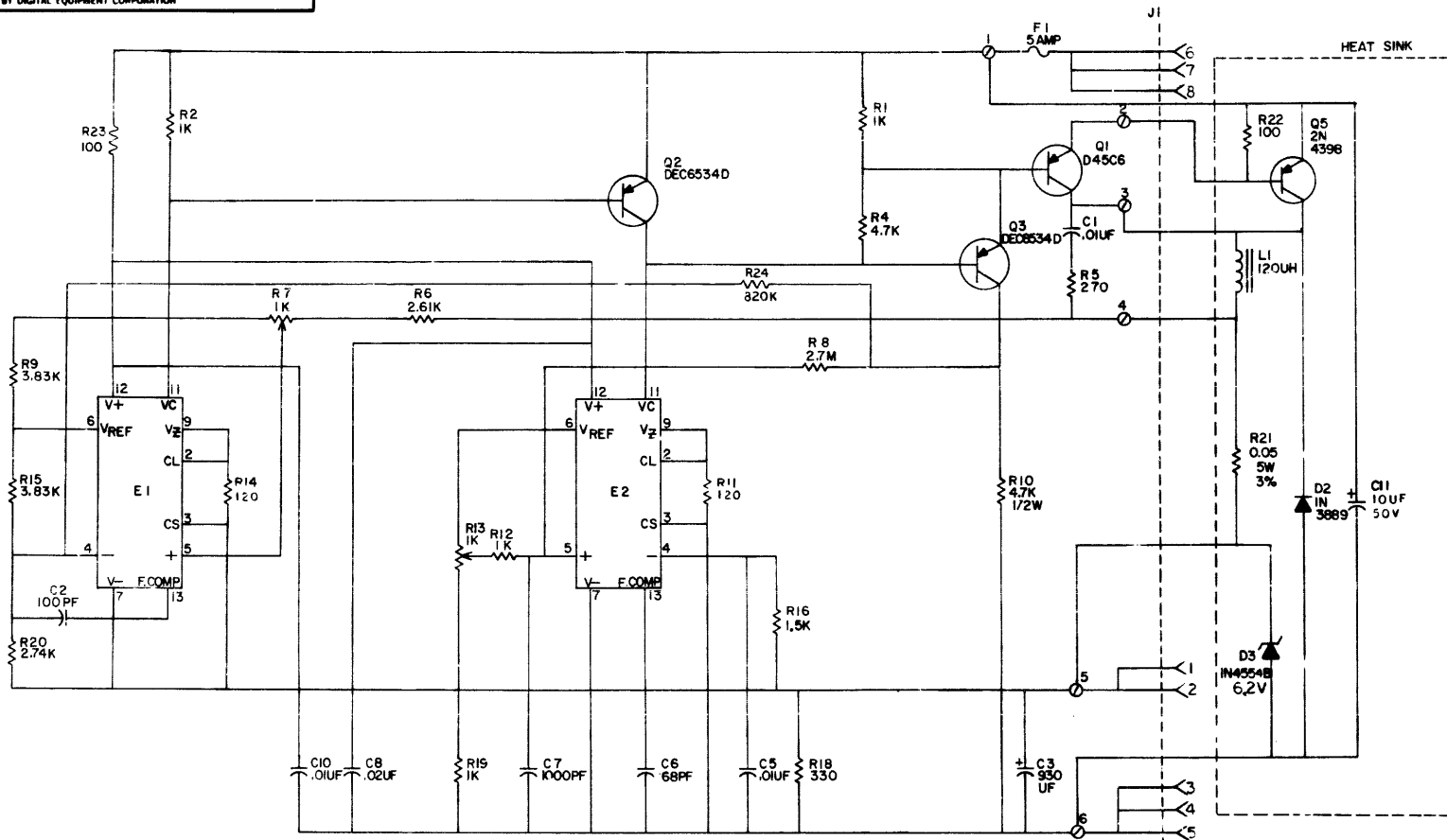


IC TYPE	GND	+5V
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY. DEVIATIONS ARE STATED ABOVE		
IC PIN LOCATIONS		

FIRST USED ON OPTION MODEL		QTY	REF DESIGNATION	DESCRIPTION	PART NO
PARTS LIST					
ETCH BOARD REV H					
DRN. MARINI	DATE 8-21-71	EQUIPMENT CORPORATION			
CHK'D FLEMING	DATE 8-27-71	MAYFIELD MASSACHUSETTS			
ENG. J. RINALDI	DATE 8-21-71	TITLE			
PROJ. ENG. J. RINALDI	DATE 8-21-71	+ 5 VOLT POWER REGULATOR			
PROD. P. RINALDI	DATE 8-21-71	NEXT HIGHER ASSY			
DEC NO.	EIA NO.	DEC NO.	EIA NO.	SCALE NONE	SHEET 1 OF 1
SEMICONDUCTOR CONVERSION CHART					
DIA 5409503-0-0 R					

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1-0-549503-5
3000 1/75



QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
70	WIRE #18AWG STRD (WHT.)		9107360-99	70
69	WIRE #18AWG STRD (GRY.)		9107360-88	69
68	WIRE #18AWG STRD (VIO.)		9107360-77	68
67	WIRE #18AWG STRD (BLU.)		9107360-66	67
66	WIRE #18AWG STRD (GRN.)		9107360-55	66
65	WIRE #18AWG STRD (YEL.)		9107360-44	65
64	3/16 FLAT WASHER		9006666	64
63	THERMAL INSULATOR		9009678	63
62	NUT, HEX 1/4 X 28		9008063	62
61	WASHER, INT TOOTH LOCK #2		9006631	61
60	SOLDER LUG		9006764	60
59	1/4 FLAT WASHER		9006676	59
58	SCR BINDING HD 2-56 X 3/16 SST		9006000-4	58
57	SCR PHIL PAN HD 6-32 X 5/8 SST		9006025-1	57
56	SCR PHIL TRUSS HD 10-32 X 1 SST		9006077-3	56
55	WASHER INT TOOTH LOCK #10		9006635	55
54	BUSHING		9008441	54
53	SOLDER LUG		9008150	53
52	NUT, HEX #10-37		9006564	52
51	SCR PHL PAN HD #6-20 X 3/8 ST		9008407	51
50	THERMAL INSULATOR		9008419	50
49	THERMAL INSULATOR		9008424	49
48	TIE WRAPS		9007031	48
47	TRANSISTOR SOCKET		1210130	47
46	CAP 10UF 50V		1000070	46
45	RES 100 1/4W 5%		1300229	45
44	HEAT SINK		D-1A-5409503-0-1	44
43	RES 0.05 5W 3%		1310507	43
42	CHOKE 120UH		1610573	42
41	DIODE IN3889		1110491	41
40	TRANSISTOR 2N4398		1505870	40
39	WASHER INT TOOTH #6		9006633	39
38	RES 120 1/4W 5%		1300247	38
37	RES 1.5K 1/4W 5%		1300391	37
36	EYELETS		9006732	36
35	SPLIT LUGS		9006735	35
34	WASHER NYLON		9006707	34
33	IC 723C D.P. REGULATOR		1910415	33
32	TRANSISTOR D45C6 G-E		1510414	32
31	THERMAL COMPOUND		9008268	31
30	TRANSISTOR DEC6534D		1503409-00	30
29	RES 2.7M 1/4W 5%		1309680	29
28	RES 3.83K 1/8W 1%		1309413	28
27	RES 1K 1/2W 20%		1309150-3	27
26	RES 1K 10W 76PR		1309143-07	26
25	RES 2.74K 1/8W 1% MF		1304868	25
24	RES 2.61K 1/8W 1% MF		1303303	24
23	RES 1K 1/8W 1% MF		1303114	23
22	RES 4.7K 1/2W 5%		1300445	22
21	RES 270 1/4W 5%		1301972	21
20	RES 4.7K 1/4W 5%		1300447	20
19	RES 1K 1/4W 5%		1300365	19
18	RES 330 1/4W 5%		1300295	18
17	RES 820K 1/4W 10%		1303187	17
16	CONNECTOR PIN		1209456	16
15	CONN. 8 PIN AMP.		1209340-00	15
14	FUSE 5 AMPS		1209070	14
13	DIODE IN4554B 6.2V		1112122	13
12	CAP. 0.02UF 100V -0+20% DISC		1000004	12
11	CAP 930UF 30V -10+75% ELEC.		1010509	11
10	CAP. 0.01UF 100V 20% DISC		1001610	10
9	CAP 1000PF 100V 5% MICA		1000042	9
8	CAP 100 PF 100V 5% DM		1000016	8
7	CAP 68PF 100V 5% DM		1000014	7
6	ETCH CIRCUIT BOARD		5009502	6
5	MODULE ECO HISTORY		B-MH-5409503-0-6	5
4	ASSY/DRILLING HOLE LAYOUT		D-AH-5409503-0-5	4
3	X-Y COORDINATE HOLE LOCATION		K-CD-5409503-0-4	3
2	+5V REGULATOR		D-1A-5409503-0-1	2

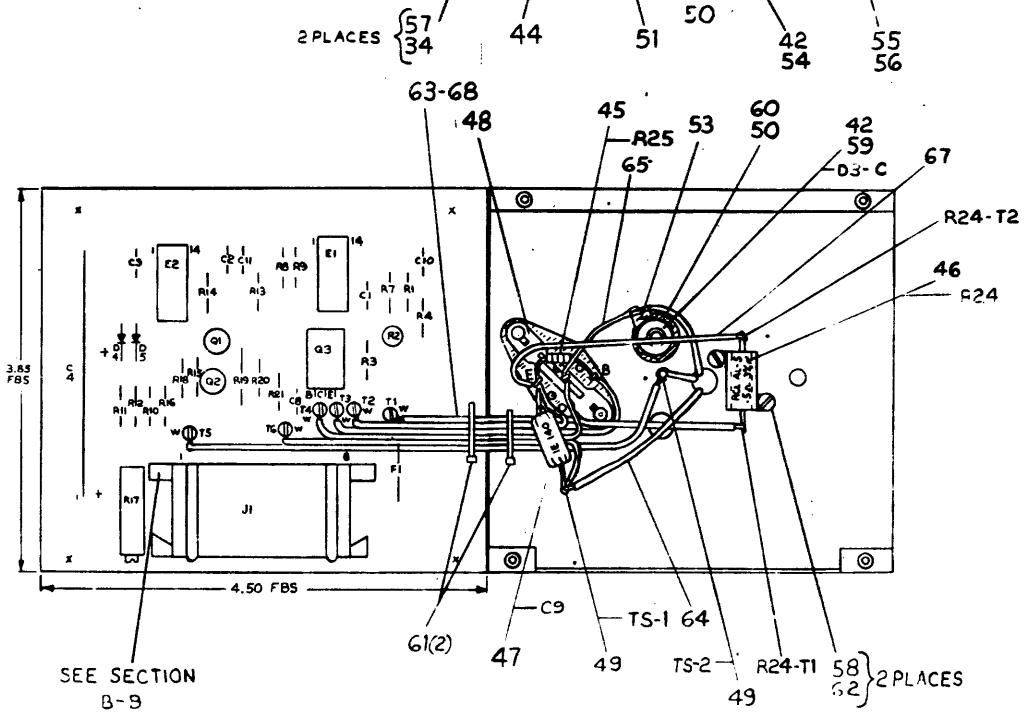
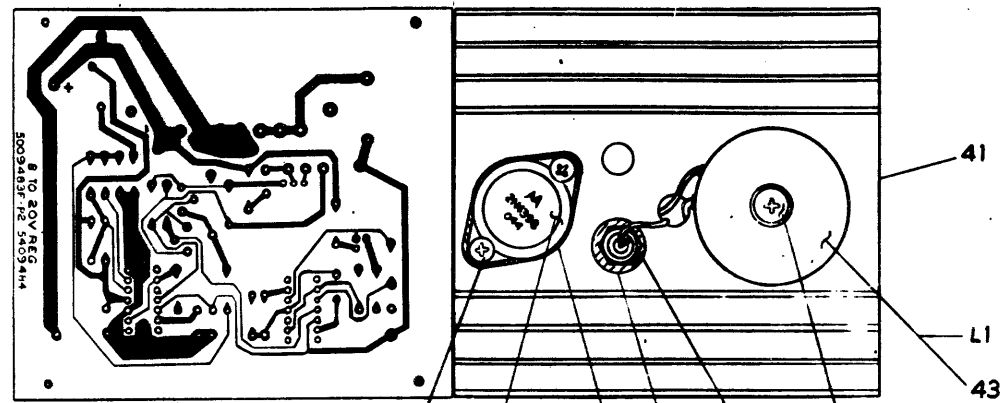
REV	DATE	BY	CHKD	DATE	BY
1	10/20/71	W. J. MARRAS	W. J. MARRAS	10/20/71	W. J. MARRAS
2	11/10/71	W. J. MARRAS	W. J. MARRAS	11/10/71	W. J. MARRAS
3	12/10/71	W. J. MARRAS	W. J. MARRAS	12/10/71	W. J. MARRAS
4	1/10/72	W. J. MARRAS	W. J. MARRAS	1/10/72	W. J. MARRAS
5	2/10/72	W. J. MARRAS	W. J. MARRAS	2/10/72	W. J. MARRAS
6	3/10/72	W. J. MARRAS	W. J. MARRAS	3/10/72	W. J. MARRAS
7	4/10/72	W. J. MARRAS	W. J. MARRAS	4/10/72	W. J. MARRAS
8	5/10/72	W. J. MARRAS	W. J. MARRAS	5/10/72	W. J. MARRAS
9	6/10/72	W. J. MARRAS	W. J. MARRAS	6/10/72	W. J. MARRAS
10	7/10/72	W. J. MARRAS	W. J. MARRAS	7/10/72	W. J. MARRAS
11	8/10/72	W. J. MARRAS	W. J. MARRAS	8/10/72	W. J. MARRAS
12	9/10/72	W. J. MARRAS	W. J. MARRAS	9/10/72	W. J. MARRAS
13	10/10/72	W. J. MARRAS	W. J. MARRAS	10/10/72	W. J. MARRAS
14	11/10/72	W. J. MARRAS	W. J. MARRAS	11/10/72	W. J. MARRAS
15	12/10/72	W. J. MARRAS	W. J. MARRAS	12/10/72	W. J. MARRAS
16	1/10/73	W. J. MARRAS	W. J. MARRAS	1/10/73	W. J. MARRAS
17	2/10/73	W. J. MARRAS	W. J. MARRAS	2/10/73	W. J. MARRAS
18	3/10/73	W. J. MARRAS	W. J. MARRAS	3/10/73	W. J. MARRAS
19	4/10/73	W. J. MARRAS	W. J. MARRAS	4/10/73	W. J. MARRAS
20	5/10/73	W. J. MARRAS	W. J. MARRAS	5/10/73	W. J. MARRAS
21	6/10/73	W. J. MARRAS	W. J. MARRAS	6/10/73	W. J. MARRAS
22	7/10/73	W. J. MARRAS	W. J. MARRAS	7/10/73	W. J. MARRAS
23	8/10/73	W. J. MARRAS	W. J. MARRAS	8/10/73	W. J. MARRAS
24	9/10/73	W. J. MARRAS	W. J. MARRAS	9/10/73	W. J. MARRAS
25	10/10/73	W. J. MARRAS	W. J. MARRAS	10/10/73	W. J. MARRAS
26	11/10/73	W. J. MARRAS	W. J. MARRAS	11/10/73	W. J. MARRAS
27	12/10/73	W. J. MARRAS	W. J. MARRAS	12/10/73	W. J. MARRAS
28	1/10/74	W. J. MARRAS	W. J. MARRAS	1/10/74	W. J. MARRAS
29	2/10/74	W. J. MARRAS	W. J. MARRAS	2/10/74	W. J. MARRAS
30	3/10/74	W. J. MARRAS	W. J. MARRAS	3/10/74	W. J. MARRAS
31	4/10/74	W. J. MARRAS	W. J. MARRAS	4/10/74	W. J. MARRAS
32	5/10/74	W. J. MARRAS	W. J. MARRAS	5/10/74	W. J. MARRAS
33	6/10/74	W. J. MARRAS	W. J. MARRAS	6/10/74	W. J. MARRAS
34	7/10/74	W. J. MARRAS	W. J. MARRAS	7/10/74	W. J. MARRAS
35	8/10/74	W. J. MARRAS	W. J. MARRAS	8/10/74	W. J. MARRAS
36	9/10/74	W. J. MARRAS	W. J. MARRAS	9/10/74	W. J. MARRAS
37	10/10/74	W. J. MARRAS	W. J. MARRAS	10/10/74	W. J. MARRAS
38	11/10/74	W. J. MARRAS	W. J. MARRAS	11/10/74	W. J. MARRAS
39	12/10/74	W. J. MARRAS	W. J. MARRAS	12/10/74	W. J. MARRAS
40	1/10/75	W. J. MARRAS	W. J. MARRAS	1/10/75	W. J. MARRAS
41	2/10/75	W. J. MARRAS	W. J. MARRAS	2/10/75	W. J. MARRAS
42	3/10/75	W. J. MARRAS	W. J. MARRAS	3/10/75	W. J. MARRAS
43	4/10/75	W. J. MARRAS	W. J. MARRAS	4/10/75	W. J. MARRAS
44	5/10/75	W. J. MARRAS	W. J. MARRAS	5/10/75	W. J. MARRAS
45	6/10/75	W. J. MARRAS	W. J. MARRAS	6/10/75	W. J. MARRAS
46	7/10/75	W. J. MARRAS	W. J. MARRAS	7/10/75	W. J. MARRAS
47	8/10/75	W. J. MARRAS	W. J. MARRAS	8/10/75	W. J. MARRAS
48	9/10/75	W. J. MARRAS	W. J. MARRAS	9/10/75	W. J. MARRAS
49	10/10/75	W. J. MARRAS	W. J. MARRAS	10/10/75	W. J. MARRAS
50	11/10/75	W. J. MARRAS	W. J. MARRAS	11/10/75	W. J. MARRAS
51	12/10/75	W. J. MARRAS	W. J. MARRAS	12/10/75	W. J. MARRAS
52	1/10/76	W. J. MARRAS	W. J. MARRAS	1/10/76	W. J. MARRAS
53	2/10/76	W. J. MARRAS	W. J. MARRAS	2/10/76	W. J. MARRAS
54	3/10/76	W. J. MARRAS	W. J. MARRAS	3/10/76	W. J. MARRAS
55	4/10/76	W. J. MARRAS	W. J. MARRAS	4/10/76	W. J. MARRAS
56	5/10/76	W. J. MARRAS	W. J. MARRAS	5/10/76	W. J. MARRAS
57	6/10/76	W. J. MARRAS	W. J. MARRAS	6/10/76	W. J. MARRAS
58	7/10/76	W. J. MARRAS	W. J. MARRAS	7/10/76	W. J. MARRAS
59	8/10/76	W. J. MARRAS	W. J. MARRAS	8/10/76	W. J. MARRAS
60	9/10/76	W. J. MARRAS	W. J. MARRAS	9/10/76	W. J. MARRAS
61	10/10/76	W. J. MARRAS	W. J. MARRAS	10/10/76	W. J. MARRAS
62	11/10/76	W. J. MARRAS	W. J. MARRAS	11/10/76	W. J. MARRAS
63	12/10/76	W. J. MARRAS	W. J. MARRAS	12/10/76	W. J. MARRAS
64	1/10/77	W. J. MARRAS	W. J. MARRAS	1/10/77	W. J. MARRAS
65	2/10/77	W. J. MARRAS	W. J. MARRAS	2/10/77	W. J. MARRAS
66	3/10/77	W. J. MARRAS	W. J. MARRAS	3/10/77	W. J. MARRAS
67	4/10/77	W. J. MARRAS	W. J. MARRAS	4/10/77	W. J. MARRAS
68	5/10/77	W. J. MARRAS	W. J. MARRAS	5/10/77	W. J. MARRAS
69	6/10/77	W. J. MARRAS	W. J. MARRAS	6/10/77	W. J. MARRAS
70	7/10/77	W. J. MARRAS	W. J. MARRAS	7/10/77	W. J. MARRAS

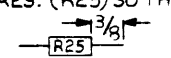
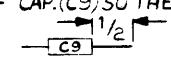
DRN	DATE	TRANSISTOR & DIODE CONVERSION CHART	TITLE
S. J. MARRAS	10/20/71	DEC 723C EIA D45C6 MPS6534 D45C6 IN752A IN3889 IN3889	+5 VOLT REGULATOR
ENG	DATE	NUMBER	REV
W. J. MARRAS	10/20/71	5409503-0-1	1
PROC	DATE	PRINTED CIRCUIT REV.	


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WIRE TABLE						EXTERNAL COMPONENTS						
ITEM NO.	DESCRIPTION	LENGTH INCHES ± 1/8	STRIP LENGTH X	STRIP LENGTH Y	CONNECTIONS FROM TO	ITEM NO.	LENGTH	DESCRIPTION	POL	CONNECTIONS FROM TO	POL	
43	—	BLK	2 1/8	—	1/2	L1	D3-T1 (ANODE)	45	SEE NOTE 2	RES 100Ω 1/4W 5%	Q4-E	Q4-B
43	—	BLK	2 1/8	—	1/2	L1	TS-2	47	SEE NOTE 3	CAP 100μF 50V 10%	Q4-E	TS-1
65	18	BLU	2 1/4	1/2	1/2	Q4-C	D3-LUG (CATHODE)					
67	18	GRY	3 5/8	1/2	1/2	Q4-E	R24-T2					
64	18	GRN	4 1/2	1/2	1/2	D3-ANODE	TS-1					
68	18	WHT	5 7/8	1/2	1/2	SPLIT LUG	R24-T1					
67	18	GRY	4 7/8	1/2	1/2	*2	Q4-E					
66	18	VIO	5 1/8	1/2	1/2	*3	Q4-B					
65	18	BLU	5 1/8	1/2	1/2	*4	Q4-C					
64	18	GRN	5 1/2	1/2	1/2	*6	TS-1					
63	18	YEL	6 7/8	1/2	1/2	SPLIT LUG	TS-2					

SEE NOTE 5

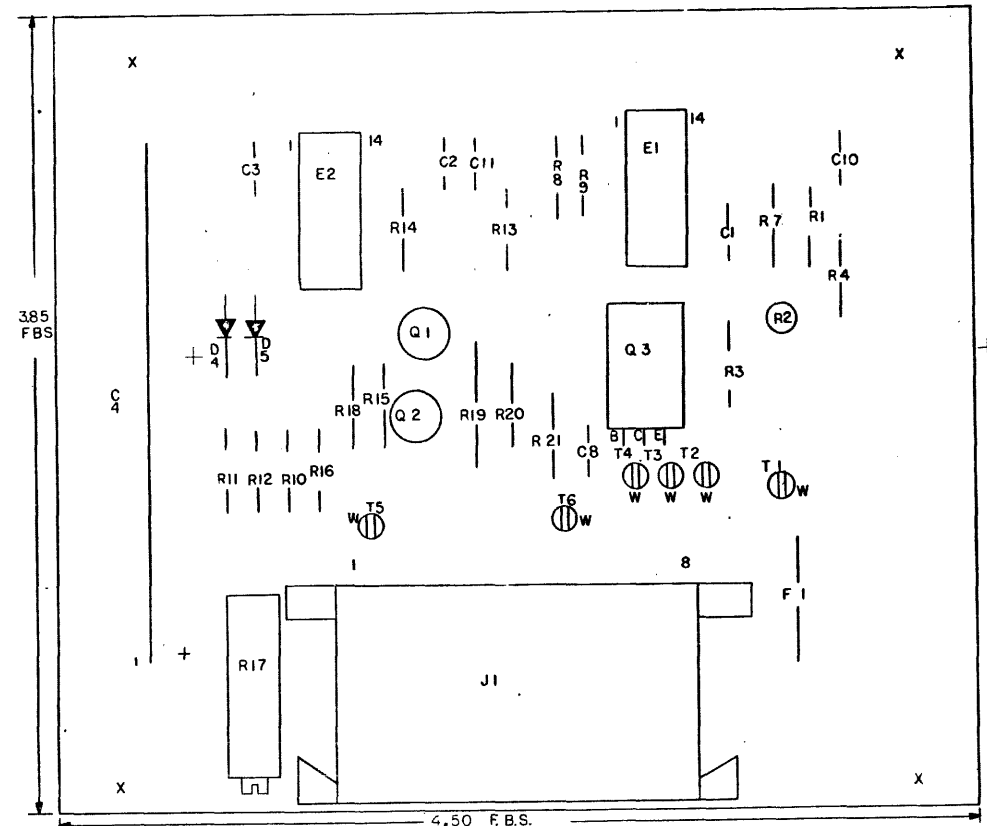
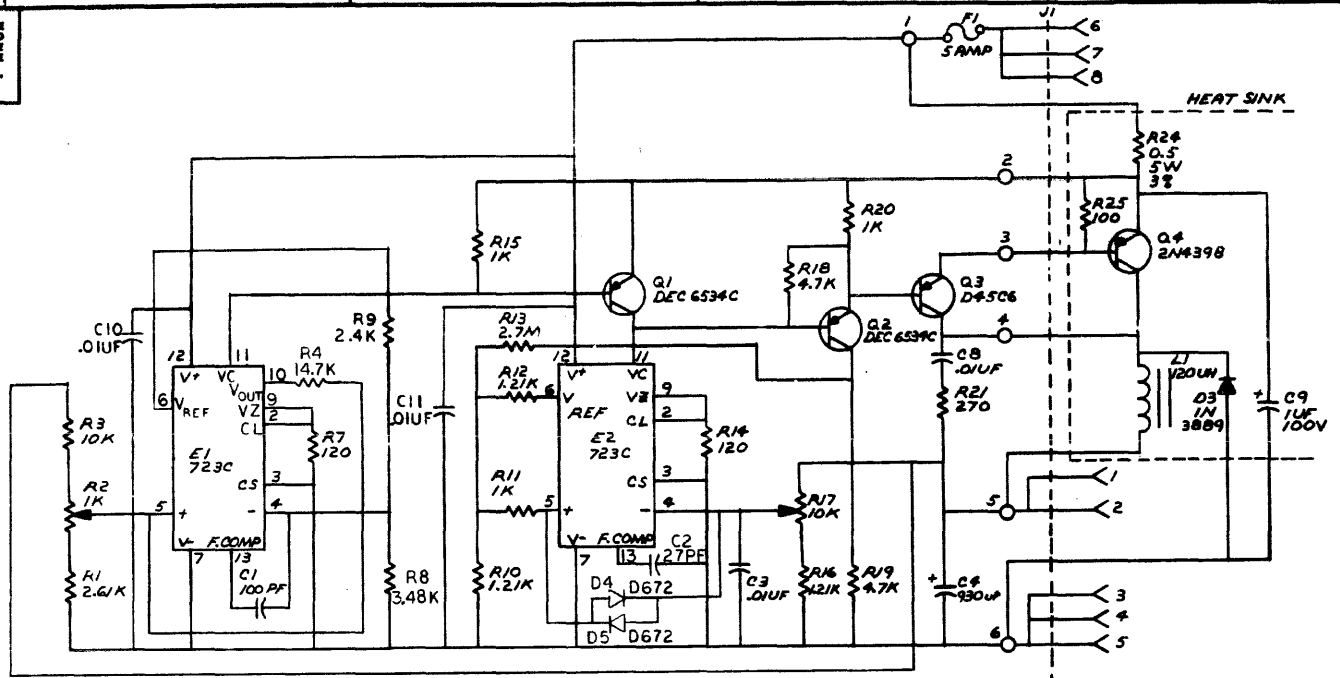


- NOTES:
- R17 IS USED FOR OUTPUT VOLTAGE ADJUSTMENT. R2 IS USED FOR OUTPUT POWER ADJUSTMENT.
 - CUT LEADS OF RES. (R25) SO THERE IS 3/8" OF A LEAD LEFT AT BOTH ENDS. 
 - CUT LEADS OF CAP. (C9) SO THERE IS 1/2" OF A LEAD LEFT AT BOTH ENDS. 
 - THERMAL COMPOUND (ITEM *39) IS TO BE APPLIED TO BOTH SIDES OF ALL THERMAL INSULATORS (ITEM *50+51) BOTH SIDES OF EACH INSULATOR SHOULD BE COMPLETELY COVERED, LEAVING NO VOIDS WHEN INSTALLED. CARE MUST BE EXERCISED SO THAT NO EXTRA COMPOUND INTERFERES WITH ANY ELECTRICAL CONNECTION MADE TO ANY DEVICE.
 - WHEN ASSEMBLING THE WIRES FROM THE CIRCUIT BOARD TO THE HEAT SINK, PLACE THE MODULE AGAINST THE HEAT SINK. WIRE AS SHOWN BY THE WIRE LIST AND MAKE A SERVICE LOOP AT THE CONNECTIONS ON THE HEAT SINK TO TAKE UP ANY EXCESS WIRE THAT MIGHT BE AVAILABLE.

QTY	REF DESIGNATION	DESCRIPTION	PART NO	ITEM NO
PARTS LIST				
ETCH BOARD REV				
DRN. T. GULLIN		DATE 7 SEP 71	 digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS 01901	
CHK'D. J. FLEMING		DATE 8 SEP 71		
ENG. P. SVENDSEN		DATE 23 SEP 71		
PROJ. ENG. P. SVENDSEN		DATE 23 SEP 71		
PROD. P. FAZL		DATE 13 OCT 71		
NEXT HIGHER ASSY				
D-UA-H737-C-1				
SCALE NONE		SIZE CODE DIA	NUMBER 5409484-0-C	REV. K
SEMICONDUCTOR CONVERSION CHART				
DEC NO.	EIA NO.	DEC NO.	EIA NO.	
SHEET 1		OF 1		DIST.

BRUING 40,107 15848

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QTY	REF DESIGNATION	DESC	PART NO.	REV.
1	A	WASHER, LOCK SPRING	9007801	69
A/R		WIRE #18 AWG STRD (WHT)	9107360-99	67
A/R		WIRE #18 AWG STRD (GRY)	9107360-88	67
A/R		WIRE #18 AWG STRD (VIO)	9107360-77	66
A/R		WIRE #18 AWG STRD (BLU)	9107360-66	65
A/R		WIRE #18 AWG STRD (GRN)	9107360-55	64
A/R		WIRE #18 AWG STRD (YEL)	9107360-44	63
2		#2 INTERNAL LOCK WASHER	9006631	62
2		TIE WRAPS	9007031	61
1		WASHER FLAT 3/16	9006666	60
1		#10-32 HEX NUT	9006564	59
2		2.56 x 3/16" SCREW	9006000-4	58
2		6732 x 3/8" PAN HD SCREW	9006025-1	57
1		10-32 x 1" TRUSS HD SCREW	9006077-3	56
1		#0 INTERNAL LOCK WASHER	9006635	55
1		BUSHING (DIODE)	9008491	54
1		SOLDER LUG	9008150	53
4		#6-20 x 3/8" SELF TAPPING SCREW	9008407-01	52
1		THERMAL INSULATOR	9008419	51
2		THERMAL INSULATOR	9008424	50
2	TS-1, TS-2	STAND OFF (STUD TYPE)	9009060	49
1		TRANSISTOR SOCKET	1210130	48
1	C4	CAP 1UF 100V	1005307	47
1	R24	RES. 0.5 3W 5%	1310508	46
1	R25	RES. 100 5% 1/4W	1300229	45
1	Q4	TRANSISTOR 2N4398	1505870	44
1	L1	120UH CHOK	1402573	43
1	D3	DIODE 1N3889	1110491	42
1		HEAT SINK	0-38-389543-0-0	41
6		SPLIT LUGS	9006735	40
A/R		THERMAL COMPOUND	9008268	39
1	F1	FUSE 5 AMPS	1209070	38
2		WASHER NYLON	9006707	37
8		CONNECTOR PINS	1209456	36
2		EYELET	9006732	35
2		WASHER INT TOOTH #6	9006633	34
2	E1,2	DIP REGULATOR 723C	1910475	33
1	Q3	TRANSISTOR D4506	1510414	32
2	Q1,2	TRANSISTOR DEC 6534C	1503409-02	31
				30
1	R21	RES. 270 1/4W 5%	1301972	29
1	R19	RES. 4.7K 1/2W 5%	1300445	28
1	R18	RES. 4.7K 1/4W 5%	1300447	27
1	R17	RES. VARIABLE 10K 3/4W 10%	1309443-10	26
1	R13	RES. 2.7M 1/4W 5%	1309480	25
3	R11,15,20	RES 1K 1/4W 5%	1300365	24
3	R10,12,16	RES 1.21K 1/8W 1% MF	1302871	23
1	R8	RES 3.48K 1/8W 1% MF	1305114	22
2	R7,14	RES 120 1/4W 5%	1300247	21
				20
1	R9	RES 2.4K 1/4W 5%	1303177	19
1	R4	RES 14.7K 1/8W 1% MF	1302941	18
1	R3	RES 10K 1/8W 1% MF	1303312	17
1	R2	RES VARIABLE 1K 1/2W	1309150-03	16
1	R1	RES 2.61K 1/8W 1% MF	1303303	15
1	J1	AMP 8 PIN CONNECTOR	1209340-00	14
2	D4,D5	DIODE D672	1105275	13
				12
				11
				10
1	C4	CAP. 930UF 30V.-10+75%	1000509	9
4	C3, 8,10,11	CAP. .01UF 100V 20% AXIAL	1000610	8
1	C2	CAP 27 PF 100V 5% MICA	1001734	7
1	C1	CAP 100PF 100V 5% D.M.	1000016	6
1		ETCHED CIRCUIT BOARD	5009483	5
		MODULE ECO. HISTORY	B-MH-5409484-0-6	4
		ASSY DRILLING HOLE LAYOUT	B-MH-540 1840-5	3
		X-Y COORDINATE HOLE LOCATION	K-CA-5407484-0-4	2
		B TO 20V REGULATOR	E-2A-5407484-0-0	1

CHK	CHANGE NO.	REV.	DATE	BY	DESCRIPTION
	00005	1	11/15/75	J. RINALDIS	INITIALS
	00006	1	11/15/75	J. RINALDIS	INITIALS
	00007	1	11/15/75	J. RINALDIS	INITIALS


DRWG NO

K-WL-RK05-0-3

REVLTR

C

REVISIONS			
REV LTR	ECO NO	DATE	ENG
A	RK05-00014	7/72	BA
B	RK05-00031	2/73	BA
C	RK05J-00005	4/76	DMC

<table border="1"> <tr> <td>DRAWN <i>RE Keller</i></td> <td>DATE 11/8/71</td> </tr> <tr> <td>CHECKED</td> <td>DATE</td> </tr> <tr> <td>ENG <i>Ed Johnson</i></td> <td>DATE 24 Nov 71</td> </tr> <tr> <td>PROJ ENG <i>Ed Johnson</i></td> <td>DATE 11-24-71</td> </tr> <tr> <td>PROD <i>Ed Johnson</i></td> <td>DATE 11/24/71</td> </tr> </table>	DRAWN <i>RE Keller</i>	DATE 11/8/71	CHECKED	DATE	ENG <i>Ed Johnson</i>	DATE 24 Nov 71	PROJ ENG <i>Ed Johnson</i>	DATE 11-24-71	PROD <i>Ed Johnson</i>	DATE 11/24/71		TITLE WIRE LIST (RK05)
DRAWN <i>RE Keller</i>	DATE 11/8/71											
CHECKED	DATE											
ENG <i>Ed Johnson</i>	DATE 24 Nov 71											
PROJ ENG <i>Ed Johnson</i>	DATE 11-24-71											
PROD <i>Ed Johnson</i>	DATE 11/24/71											
ASSY NO D-AD-7008696-0-0	FOR TAPE #	FILE #										
SCALE NONE	SHEET OF	DIST.										
SIZE CODE DWG.NO. K WL RK05-0-3		REV LTR C										

PK25.C RUN NAME	A/P	APP288.V34(62)-1 PIN NAME	31-Jul-75 ORDER PIN	PAY * ORDER	Q	ORAX	RV RG Y OPT	X	Z	REMARKS	2-Jun-76	8156 NC LENGTH FLAG	PAGE 1 EXCEPTIONS	RUN NUMBER
+15VDC	H	A0502		1-01 *			D05-9		1			0-4/8		1
+15VDC	H	A0601		1-02 *			D05-9							1
+15VDC	H			1								0-4/8		1
+5VDC BULK	H	A06A1		1-01 *			D05-9		1			0-4/8		2
+5VDC BULK	H	A06A2		1-02 *			D05-9							2
+5VDC BULK	H			1								0-4/8		2
12R	H	A01A2		1-01 *			D05-1		1			2-5/8		3
12R	H	A03A1		1-02 *			D05-1							3
12R	H			1								2-5/8		3
AC LOW	H	A04R2		1-01 *			D05-8		1			2-7/8		4
AC LOW	H	A0RF1		1-02 *			D05-8		2			1		4
AC LOW	H	A07F1		1-03 *			D05-8							4
AC LOW	H			1								3-7/8		4
ADDR ACCEPTED	L	A02S1		1-01 *			D05-5		1			1-2/8		5
ADDR ACCEPTED	L	A03N1		1-02 *			D05-5							5
ADDR ACCEPTED	L			1								1-2/8		5
ADDRESS INVALID	L	A02F1		1-01 *			D05-2		1			0-5/8		6
ADDRESS INVALID	L	A03F1		1-02 *			D05-2							6
ADDRESS INVALID	L			1								0-5/8		6
BLOWER MTR RELAY DR	H	A04A1		1-01 *			D05-9		1			5-5/8		7
BLOWER MTR RELAY DR	H	A06N1		1-02 *			D05-9							7
BLOWER MTR RELAY DR	H			1								5-5/8		7
BUS ADDR ACCEPTED	L	A02R1		1-01 *			D05-4		1			3-2/8		8
BUS ADDR ACCEPTED	L	A07R2		1-02 *			D05-4		2			1		8
BUS ADDR ACCEPTED	L	A08R2		1-03 *			D05-4							8
BUS ADDR ACCEPTED	L			1								4-2/8		8
BUS ADDR INVALID	L	A08T2		1-01 *			D05-4		2			1		9
BUS ADDR INVALID	L	A07T2		1-02 *			D05-4		1			4-1/8		9
BUS ADDR INVALID	L	A02A1		1-03 *			D05-4							9
BUS ADDR INVALID	L			1								5-1/8		9
BUS FILE READY	L	A04M1		1-01 *			D05-7		1			4-6/8		10
BUS FILE READY	L	A08N1		1-02 *			D05-7		2			1		10
BUS FILE READY	L	A07N1		1-03 *			D05-7							10
BUS FILE READY	L			1								5-6/8		10
BUS INDEX PUL	L	A02K1		1-01 *			D05-3		1			4-6/8		11
BUS INDEX PUL	L	A08M1		1-02 *			D05-3		2			1		11
BUS INDEX PUL	L	A07M1		1-03 *			D05-3							11
BUS INDEX PUL	L			1								5-6/8		11
BUS P/W/S READY	L	A02M1		1-01 *			D05-4		1			3-5/8		12
BUS P/W/S READY	L	A07H2		1-02 *			D05-4		2			1		12
BUS P/W/S READY	L	A08H2		1-03 *			D05-4							12
BUS P/W/S READY	L			1								4-5/8		12

PK25.C RUN NAME	A/P	APP288.V34(62)-1 PIN NAME	31-Jul-75 ORDER PIN	PAY * ORDER	Q	ORAX	RV RG Y OPT	X	Z	REMARKS	2-Jun-76	8156 NC LENGTH FLAG	PAGE 2 EXCEPTIONS	RUN NUMBER
BUS SECTOR ADDR	L	A02H1		1-01 *			D05-3		1			4-7/8		13
BUS SECTOR ADDR	L	A08L1		1-02 *			D05-3		2			1		13
BUS SECTOR ADDR	L	A07L1		1-03 *			D05-3							13
BUS SECTOR ADDR	L			1								5-7/8		13
BUS SECTOR ADDR 1	L	A02J1		1-01 *			D05-4		1			3-5/8		14
BUS SECTOR ADDR 1	L	A07P2		1-02 *			D05-4		2			1		14
BUS SECTOR ADDR 1	L	A08P2		1-03 *			D05-4							14
BUS SECTOR ADDR 1	L			1								4-5/8		14
BUS SECTOR ADDR 2	L	A02L1		1-01 *			D05-4		1			4-1/8		15
BUS SECTOR ADDR 2	L	A07K2		1-02 *			D05-4		2			1		15
BUS SECTOR ADDR 2	L	A08K2		1-03 *			D05-4							15
BUS SECTOR ADDR 2	L			1								5-1/8		15
BUS SECTOR ADDR 3	L	A02P1		1-01 *			D05-4		1			4-1/8		16
BUS SECTOR ADDR 3	L	A07J1		1-02 *			D05-4		2			1		16
BUS SECTOR ADDR 3	L	A08J1		1-03 *			D05-4							16
BUS SECTOR ADDR 3	L			1								5-1/8		16
BUS SECTOR PULSE	L	A02F1		1-01 *			D05-3		1			5-2/8		17
BUS SECTOR PULSE	L	A08N2		1-02 *			D05-3		2			1		17
BUS SECTOR PULSE	L	A07N2		1-03 *			D05-3							17
BUS SECTOR PULSE	L			1								6-2/8		17
BUS SEEK INCOMPLETE	L	A02N1		1-01 *			D05-4		1			3-3/8		18
BUS SEEK INCOMPLETE	L	A07S2		1-02 *			D05-4		2			1		18
BUS SEEK INCOMPLETE	L	A08S2		1-03 *			D05-4							18
BUS SEEK INCOMPLETE	L			1								4-3/8		18
BUS WR PROTECT STATUS	H	A04U1		1-01 *			D05-8		1			2-3/8		19
BUS WR PROTECT STATUS	H	A07P1		1-02 *			D05-8		2			1		19
BUS WR PROTECT STATUS	H	A08P1		1-03 *			D05-8							19
BUS WR PROTECT STATUS	H			1								3-3/8		19
BUS WRITE CK	H	A04P1		1-01 *			D05-8		1			2-3/8		20
BUS WRITE CK	H	A07K1		1-02 *			D05-8		2			1		20
BUS WRITE CK	H	A08K1		1-03 *			D05-8							20
BUS WRITE CK	H			1								3-3/8		20
COS POSITION	H	A05U1		1-01 *			D05-9		1			1-5/8		21
COS POSITION	H	A06R1		1-02 *			D05-9							21
COS POSITION	H			1								1-5/8		21
COUNT PULSE FWD	H	A05A1		1-01 *			D05-5		1			5-1/8		22
COUNT PULSE FWD	H	A03K1		1-02 *			D05-5							22
COUNT PULSE FWD	H			1								5-1/8		22
COUNT PULSE REV	H	A05C1		1-01 *			D05-5		1			4-3/8		23
COUNT PULSE REV	H	A03F1		1-02 *			D05-5							23
COUNT PULSE REV	H			1								4-3/8		23
CYC ADDR 1	L	A07K1		1-01 *			D05-5		2			1		24
CYC ADDR 2	L	A08K1		1-02 *			D05-5		1			4-4/8		24
CYC ADDR 3	L	A03L1		1-03 *			D05-5							24
CYC ADDR 4	L			1								5-4/8		24

PKMS,C RUN NAME	A/P	WFF289,V34(62)-1 PIN NAME	31-JUL-75 ORDER PIN	RAY = ORDER	Q	DPAN	RV PG Y	X	Z	REMARKS	2-JUN-76	8156 NO FLAG	PAGE 9 LENGTH EXCEPTIONS	RUN NUMBER
SELECT 3	L	APR12	1-01 *				005-3		2				1	91
SELECT 3	L	AP7L2	1-02 *				005-3		1				5-7/8	91
SELECT 3	L	AP2T2	1-03 *				005-3							91
SELECT 3	L		1										6-7/8	91
SELECT 4	L	APRM2	1-01 *				005-3		2				1	92
SELECT 4	L	AP7M2	1-02 *				005-3		1				5	92
SELECT 4	L	AP2H2	1-03 *				005-3							92
SELECT 4	L		1										6-8/8	92
SELECT/READY	L	AP1H2	1-01 *				005-1		1				2-3/8	93
SELECT/READY	L	AP4V1	1-02 *						2				2-2/8	93
SELECT/READY	L	AP2H1	1-03 *				005-1							93
SELECT/READY	L		1										3-5/8	93
SELECTED READ GATE	H	AP1R1	1-01 *				005-9		1				1-3/8	94
SELECTED READ GATE	H	AP2F2	1-02 *				005-9							94
SELECTED READ GATE	H		1										1-3/8	94
SELECTED WRITE GATE	H	AP1V1	1-01 *				005-1		1				1-2/8	95
SELECTED WRITE GATE	H	AP2V2	1-02 *				005-1							95
SELECTED WRITE GATE	H		1										1-2/8	95
SET UNSAFE	L	AP1U2	1-01 *				005-1		1				2-2/8	96
SET UNSAFE	L	AP4A1	1-02 *				005-1							96
SET UNSAFE	L		1										2-2/8	96
SIN POSITION	H	AP5M1	1-01 *				005-9		1				2-5/8	97
SIN POSITION	H	AP6D1	1-02 *				005-9							97
SIN POSITION	H		1										2-5/8	97
STORE	L	AP2V1	1-01 *				005-2		1				4-1/8	98
STORE	L	AP7H1	1-02 *				005-2		2				1	98
STORE	L	AP8H1	1-03 *				005-2							98
STORE	L		1										5-1/8	98
UNSAFE	L	AP1L2	1-01 *				005-1		1				2-5/8	99
UNSAFE	L	AP4V2	1-02 *				005-1							99
UNSAFE	L		1										2-5/8	99
WRITE DATA + CLK	H	AP1J1	1-01 *				005-1		1				3-7/8	100
WRITE DATA + CLK	H	AP7F2	1-02 *				005-1		2				1	100
WRITE DATA + CLK	H	AP8F2	1-03 *				005-1							100
WRITE DATA + CLK	H		1										4-7/8	100
WRITE GATE	L	AP1J2	1-01 *				005-1		1				4-6/8	101
WRITE GATE	L	AP7L2	1-02 *				005-1		2				1	101
WRITE GATE	L	AP8L2	1-03 *				005-1							101
WRITE GATE	L		1										5-6/8	101
WRITE PROTECT SET	L	AP2S1	1-01 *				005-3		1				3-3/8	102
WRITE PROTECT SET	L	AP7R2	1-02 *				005-3		2				1	102
WRITE PROTECT SET	L	AP8R2	1-03 *				005-3							102
WRITE PROTECT SET	L		1										4-3/8	102

PKMS,C RUN NAME	A/P	WFF289,V34(62)-1 PIN NAME	31-JUL-75 ORDER PIN	RAY = ORDER	Q	DPAN	RV PG Y	X	Z	REMARKS	2-JUN-76	8156 NO FLAG	PAGE 10 LENGTH EXCEPTIONS	RUN NUMBER
WRITE SA OFF	L	AP6M1	1-01 *				005-7		1				3-3/8	103
WRITE SA OFF	L	AP4F1	1-02 *				005-7							103
WRITE SA OFF	L		1										3-3/8	103
WRITE SA ON	L	AP6M1	1-01 *				005-7		1				3-3/8	104
WRITE SA ON	L	AP4F1	1-02 *				005-7							104
WRITE SA ON	L		1										3-3/8	104
WRITING IND	H	AP2H1	1-01 *				005-5		1				3-2/8	105
WRITING IND	H	AP6F1	1-02 *				005-5							105
WRITING IND	H		1										3-2/8	105