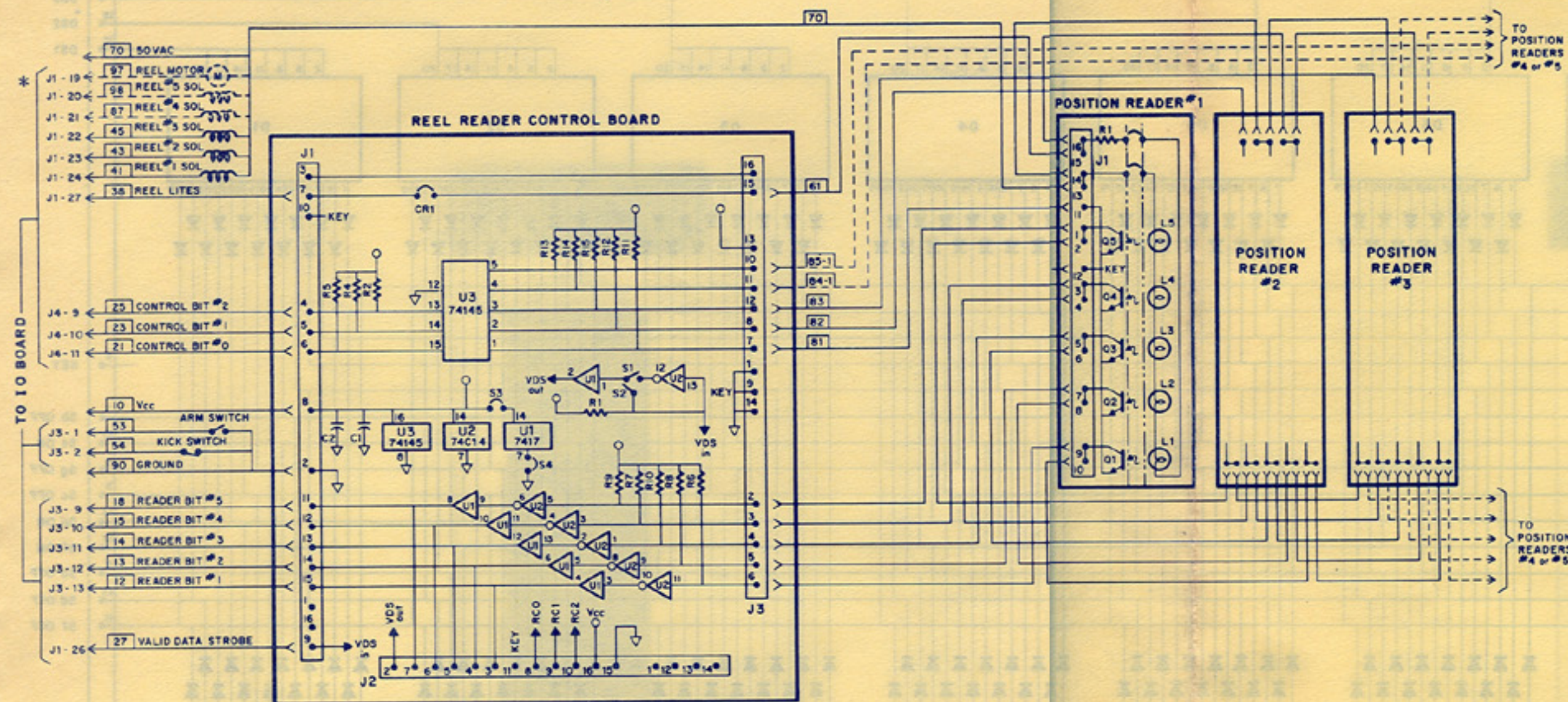


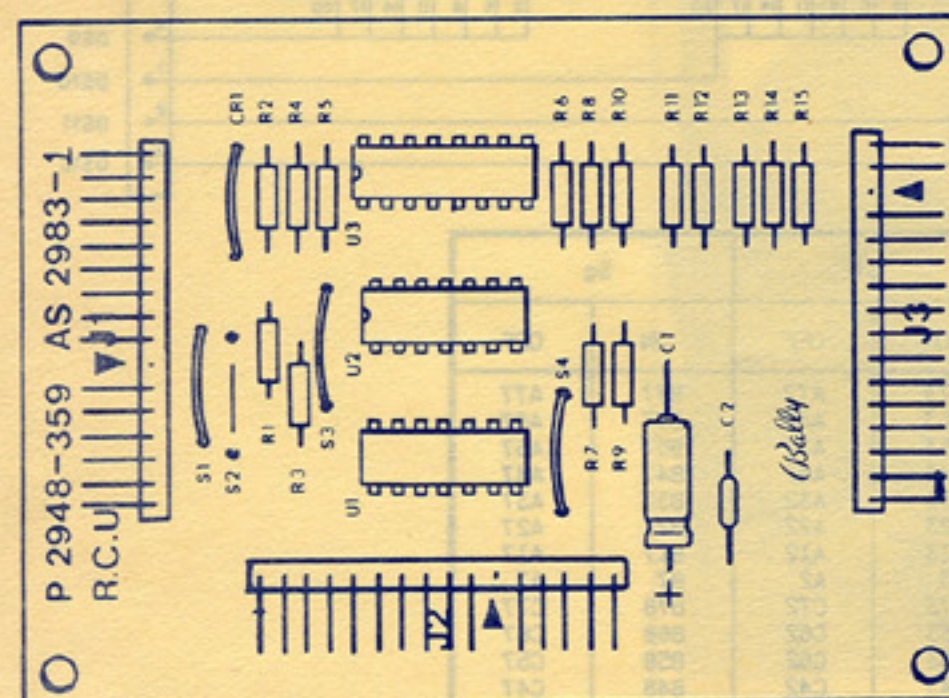
REEL MECHANISM RELATED BOARDS



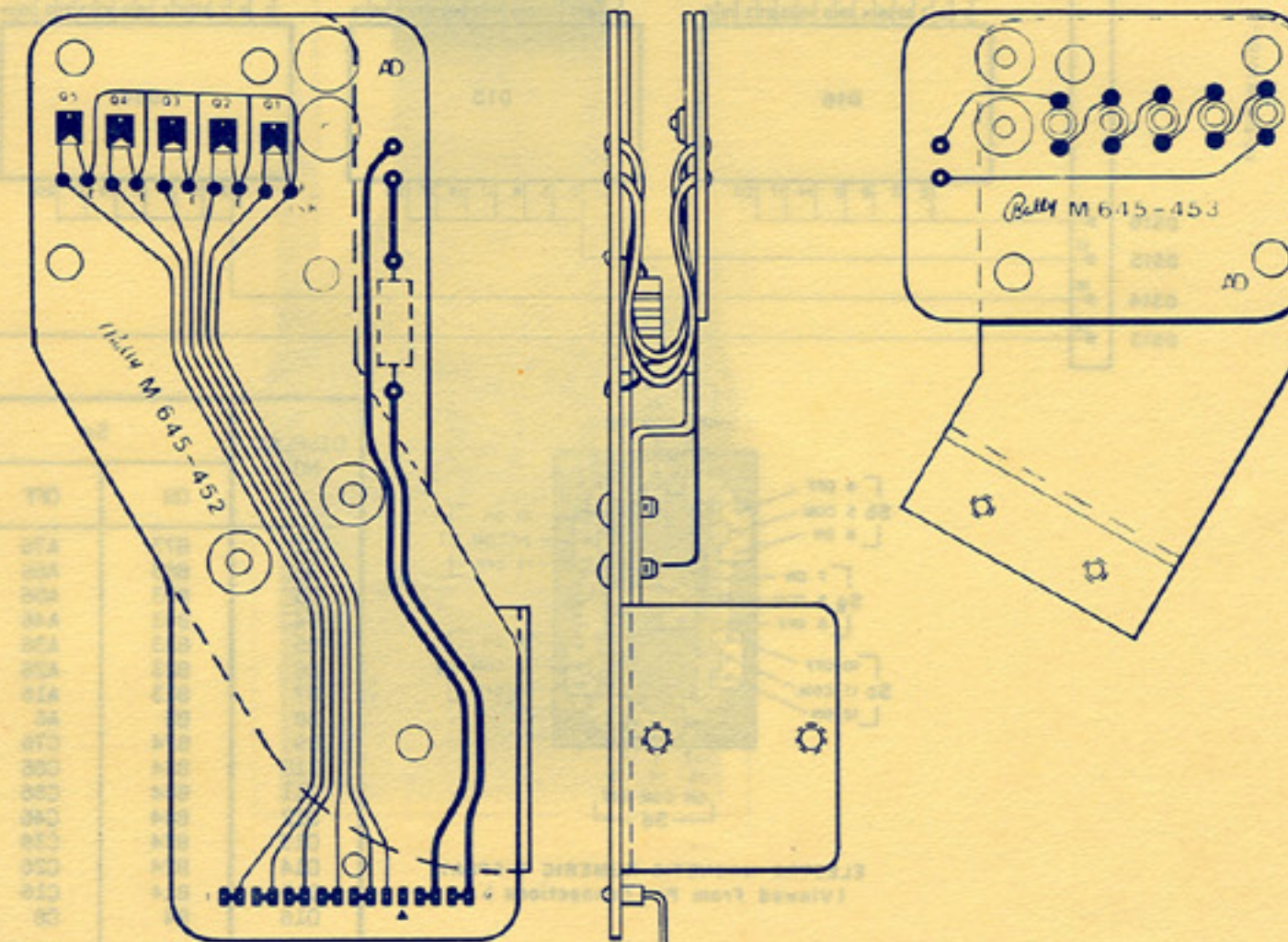
AS-2977-1 POSITION READER ASSEMBLY

SYMBOL	PART NO.	DESCRIPTION
	A-3933-2	LAMP BRACKET ASSEMBLY
	A-3933-3	READER BRACKET ASSEMBLY
L1 - L5	E-125-68	5 VOLT LAMP
Q1 - Q5	E-585-55	NPN PHOTOTRANSISTOR
R1	E-104-101	470 OHM 2 WATT RESISTOR
J1	E-768-16	16 CKT. KK100 RIGHT ANGLE WAFER

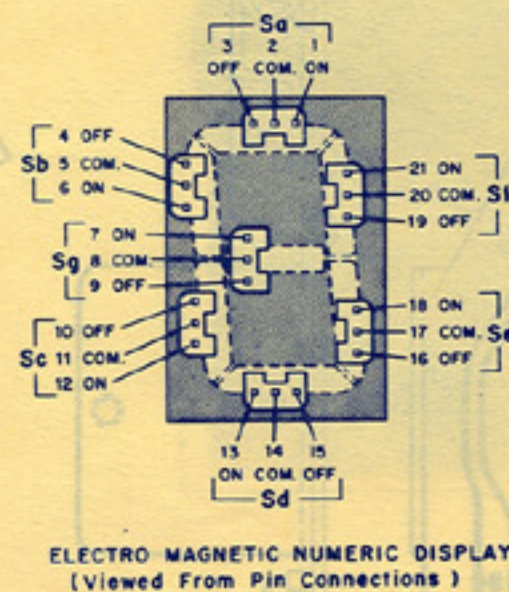
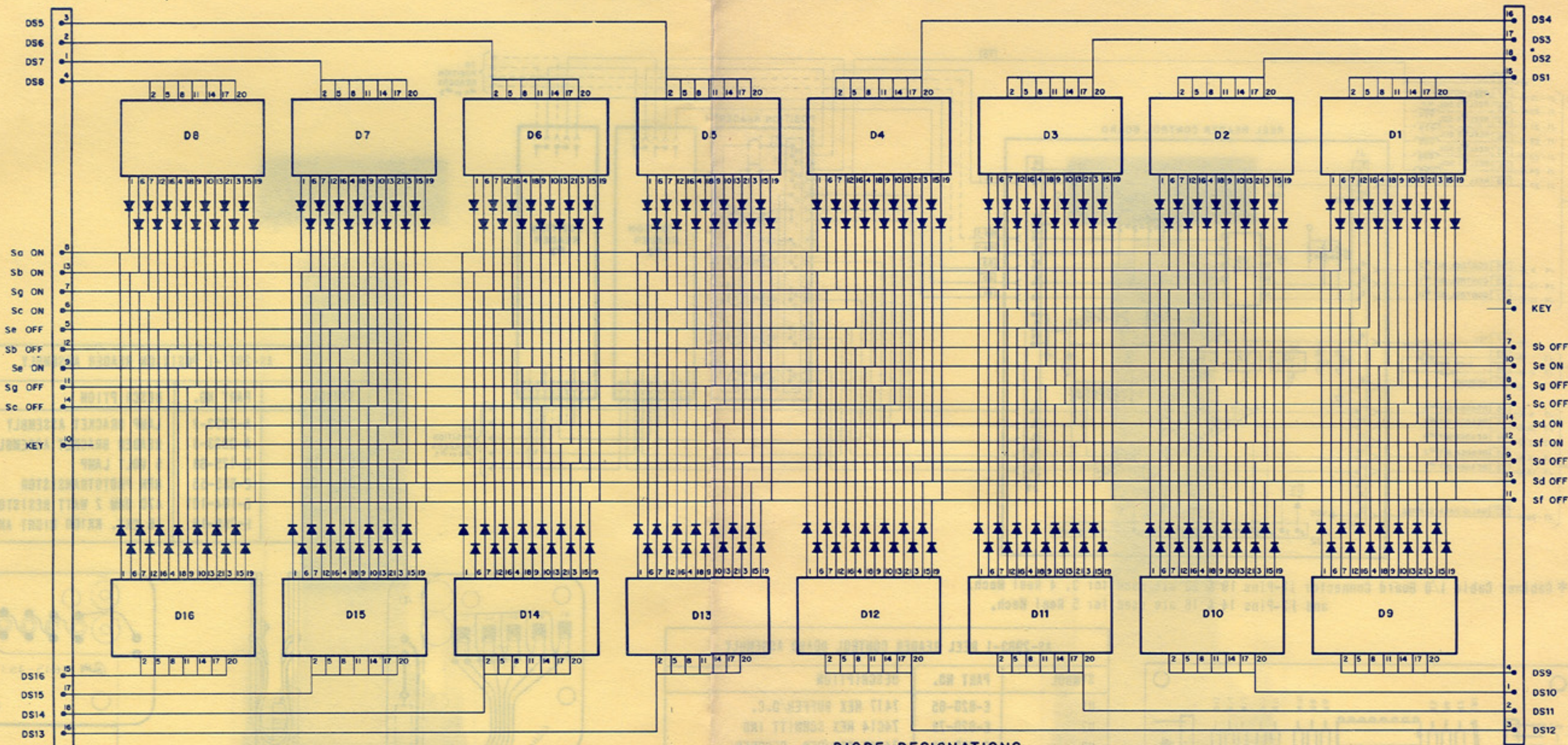
* Cabinet Cable I/O Board Connector J1-Pins 19 & 20 are used for 3, 4 Reel Mech. and J2-Pins 14 & 16 are used for 5 Reel Mech.



SYMBOL	PART NO.	DESCRIPTION
U1	E-620-65	7417 HEX BUFFER/O.C.
U2	E-620-78	74C14 HEX SCHMITT IND
U3	E-620-63	74145 BCD/DEC. DECODER
CR1	—	WIRE JUMPER
R1 - R2	E-105-230	1 K OHM RESISTOR 1/4 WATT 5%
R3	E-105-280	470 OHM RESISTOR 1/4 WATT 5%
R4 - R5	E-105-230	1 K OHM RESISTOR 1/4 WATT 5%
R6 THRU R10	E-105-263	47 K OHM RESISTOR 1/4 WATT 5%
R11 THRU R15	E-105-230	1 K OHM RESISTOR 1/4 WATT 5%
C1	E-586-8	2 MFD 50 V. ELECTROLYTIC
C2	E-586-85	.01 MFD 50 V. CERAMIC
J1, J3	E-768-16	16 CKT. KK100 RIGHT ANGLE WAFER
J2	NOT USED	
S1	—	WIRE JUMPER IN CIRCUIT
S2	NOT USED	
S3, S4	—	WIRE JUMPER IN CIRCUIT



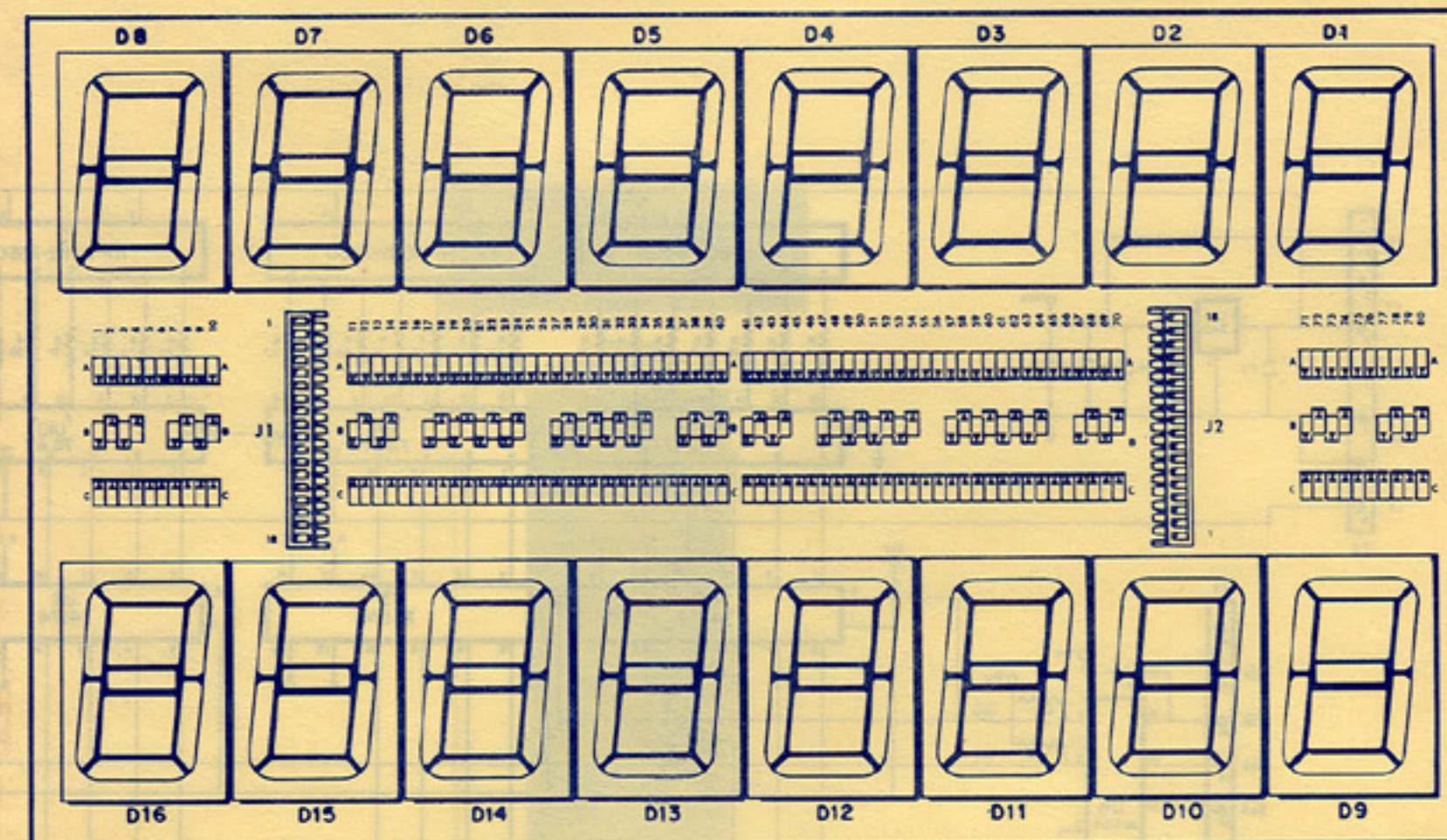
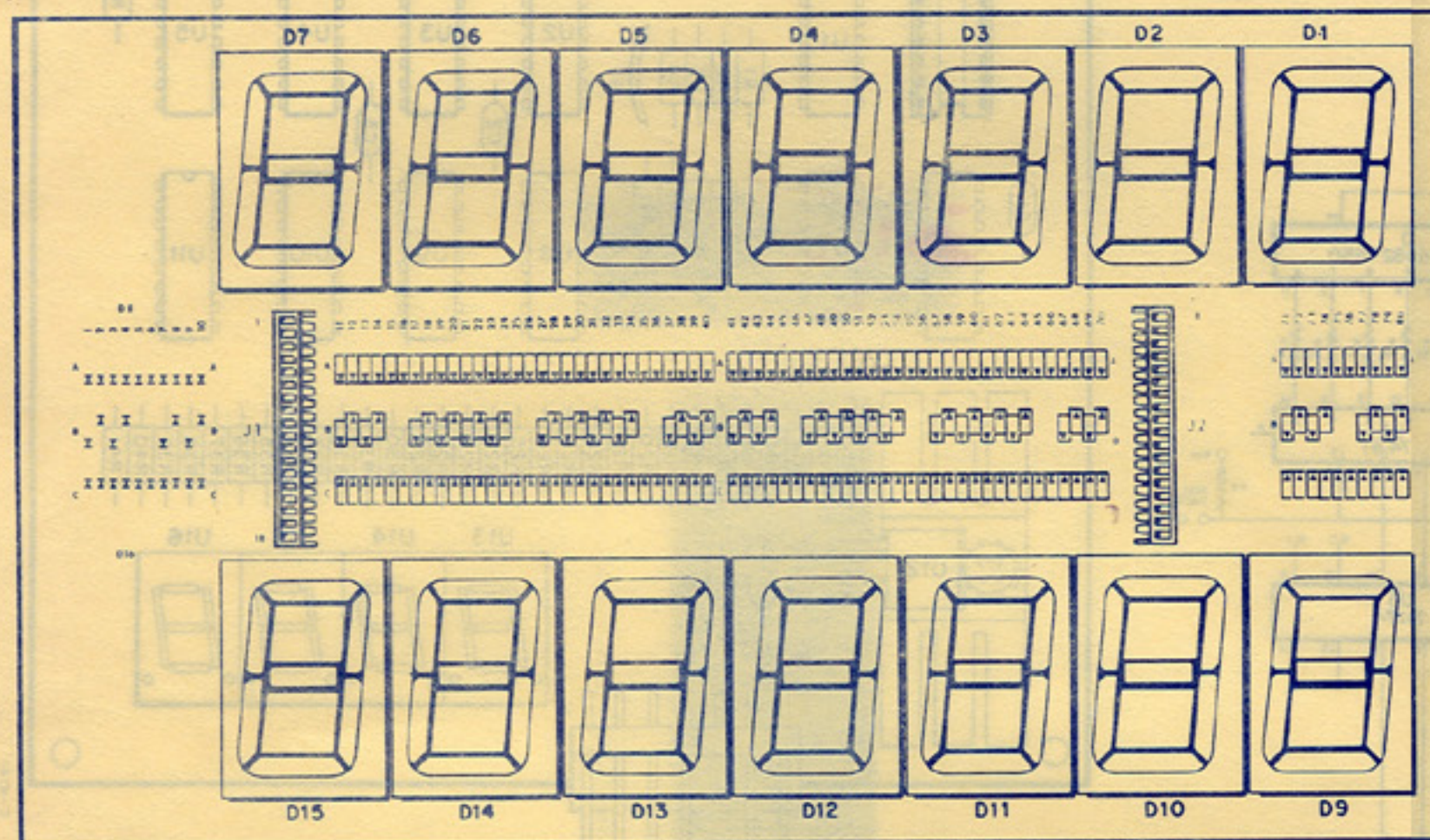
PROGRESSIVE DISPLAY BOARD



DIODE DESIGNATIONS

DISPLAY NO.	Sa		Sb		Sc		Sd		Se		Sf		Sg	
	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF
D1	B73	A76	A79	A78	B79	A80	A75	A74	B71	A71	A73	A72	B77	A77
D2	B63	A66	A69	A68	B69	A70	A65	A64	B61	A61	A63	A62	B67	A67
D3	B53	A56	A59	A58	B59	A60	A55	A54	B51	A51	A53	A52	B57	A57
D4	B43	A46	A49	A48	B49	A50	A45	A44	B41	A41	A43	A42	B47	A47
D5	B33	A36	A39	A38	B39	A40	A35	A34	B31	A31	A33	A32	B37	A37
D6	B23	A26	A29	A28	B29	A30	A25	A24	B21	A21	A23	A22	B27	A27
D7	B13	A16	A19	A18	B19	A20	A15	A14	B11	A11	A13	A12	B17	A17
D8	B3	A6	A9	A8	B9	A10	A5	A4	B1	A1	A3	A2	B7	A7
D9	B74	C76	C79	C78	B80	C80	C75	C74	B72	C71	C73	C72	B78	C77
D10	B64	C66	C69	C68	B70	C70	C65	C64	B62	C61	C63	C62	B68	C67
D11	B54	C56	C59	C58	B60	C60	C55	C54	B52	C51	C53	C52	B58	C57
D12	B44	C46	C49	C48	B50	C50	C45	C44	B42	C41	C43	C42	B48	C47
D13	B34	C36	C39	C38	B40	C40	C35	C34	B32	C31	C33	C32	B38	C37
D14	B24	C26	C29	C28	B30	C30	C25	C24	B22	C21	C23	C22	B28	C27
D15	B14	C16	C19	C18	B20	C20	C15	C14	B12	C11	C13	C12	B18	C17
D16	B4	C6	C9	C8	B10	C10	C5	C4	B2	C1	C3	C2	B8	C7

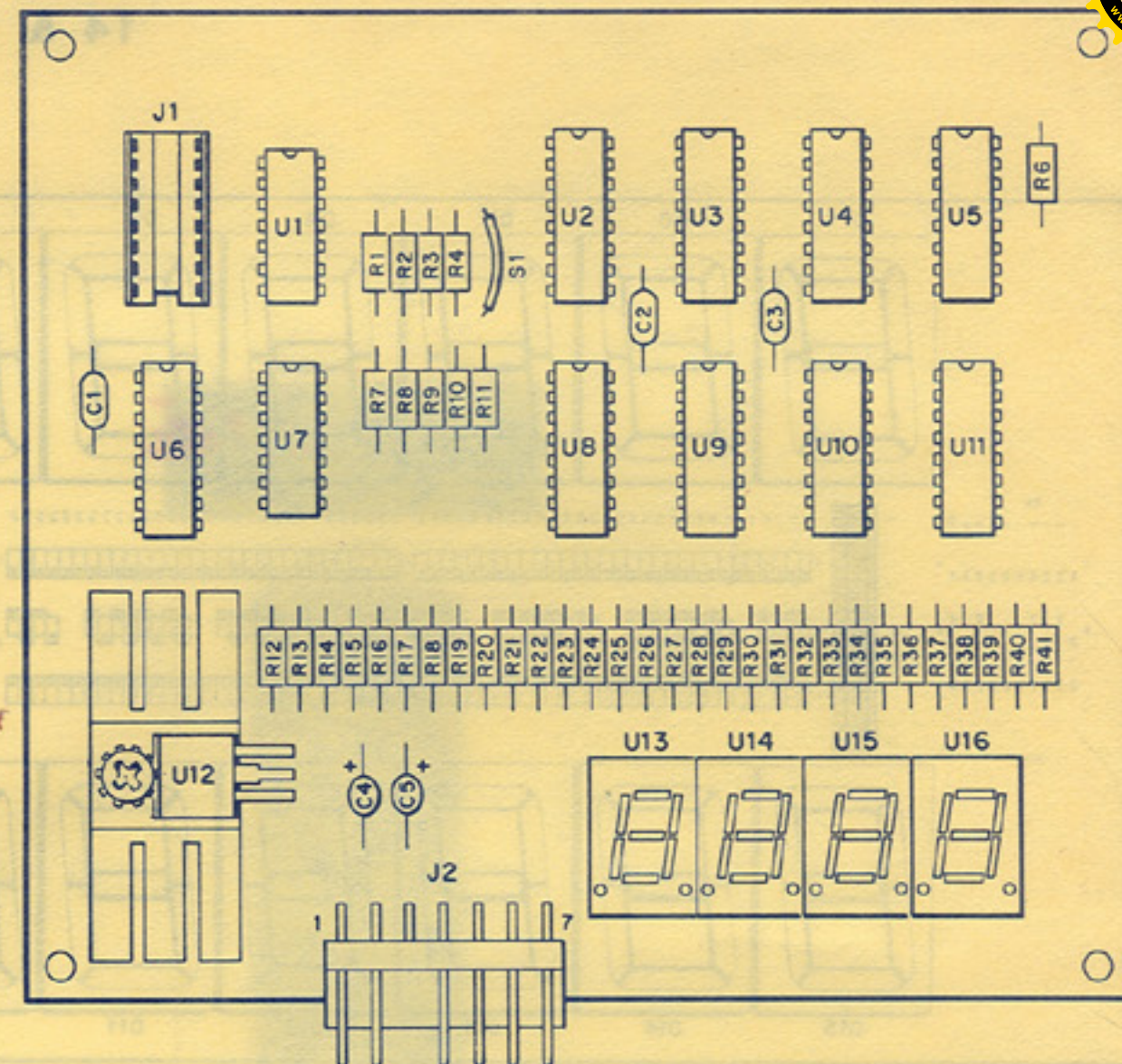
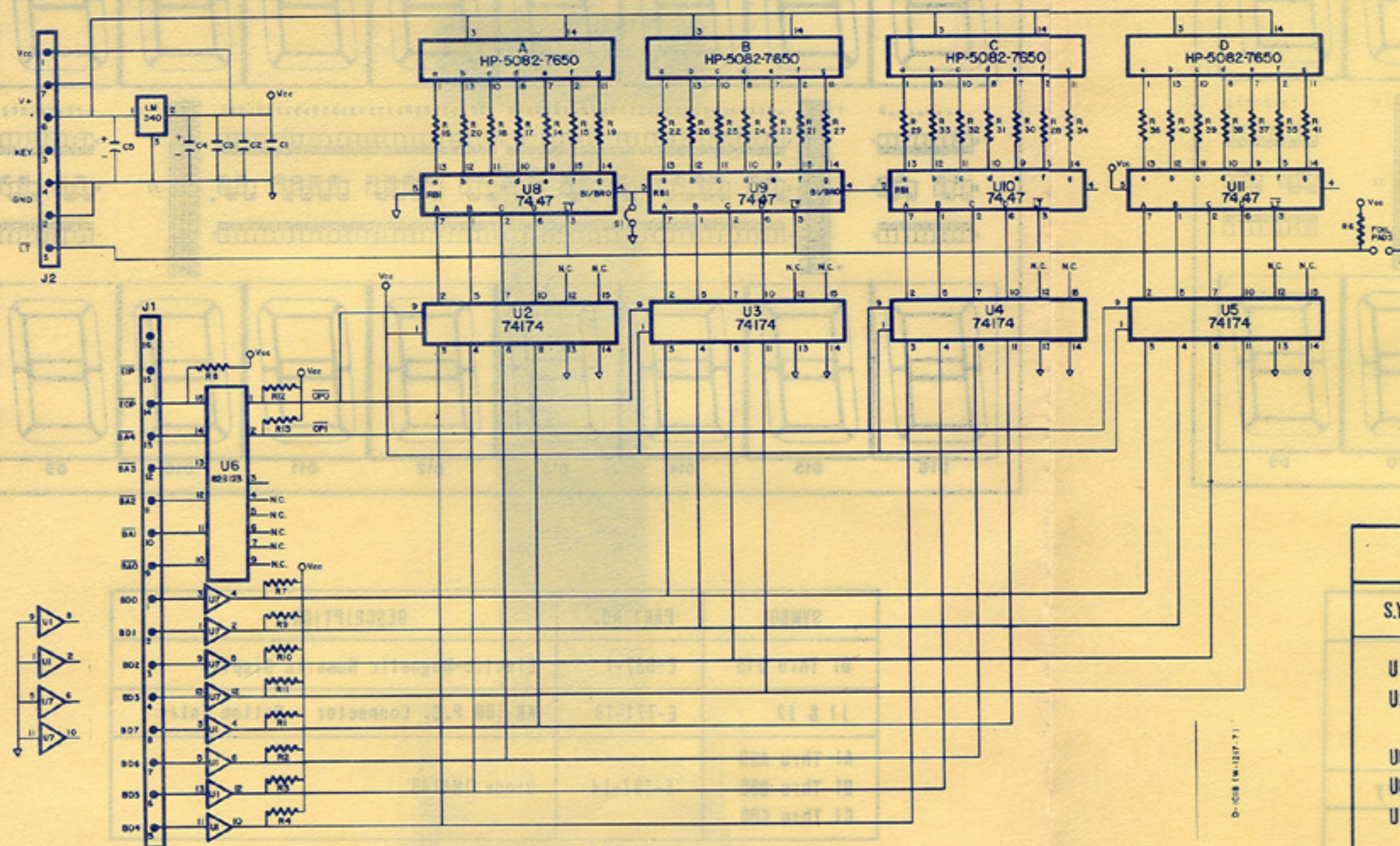
14 & 16 DIGIT PROGRESSIVE DISPLAY BOARDS



SYMBOL	PART NO.	DESCRIPTION
D1 Thru D7	E-837-1	Electro-Magnetic Numeric Display
D8	—	Not Used
D9 Thru D15	E-837-1	Electro-Magnetic Numeric Display
D16	—	Not Used
J1 J2	E-771-18	KK-100 P.C. Connector - Bottom Entry
A1 Thru A10 B1 Thru B10 C1 Thru C10	—	Not Used
A11 Thru A80 B11 Thru B80 C11 Thru C80	E-587-14	Diode 1N4148

SYMBOL	PART NO.	DESCRIPTION
D1 Thru D16	E-837-1	Electro-Magnetic Numeric Display
J1 & J2	E-771-18	KK-100 P.C. Connector - Bottom Entry
A1 Thru A80 B1 Thru B80 C1 Thru C80	E-587-14	Diode 1N4148

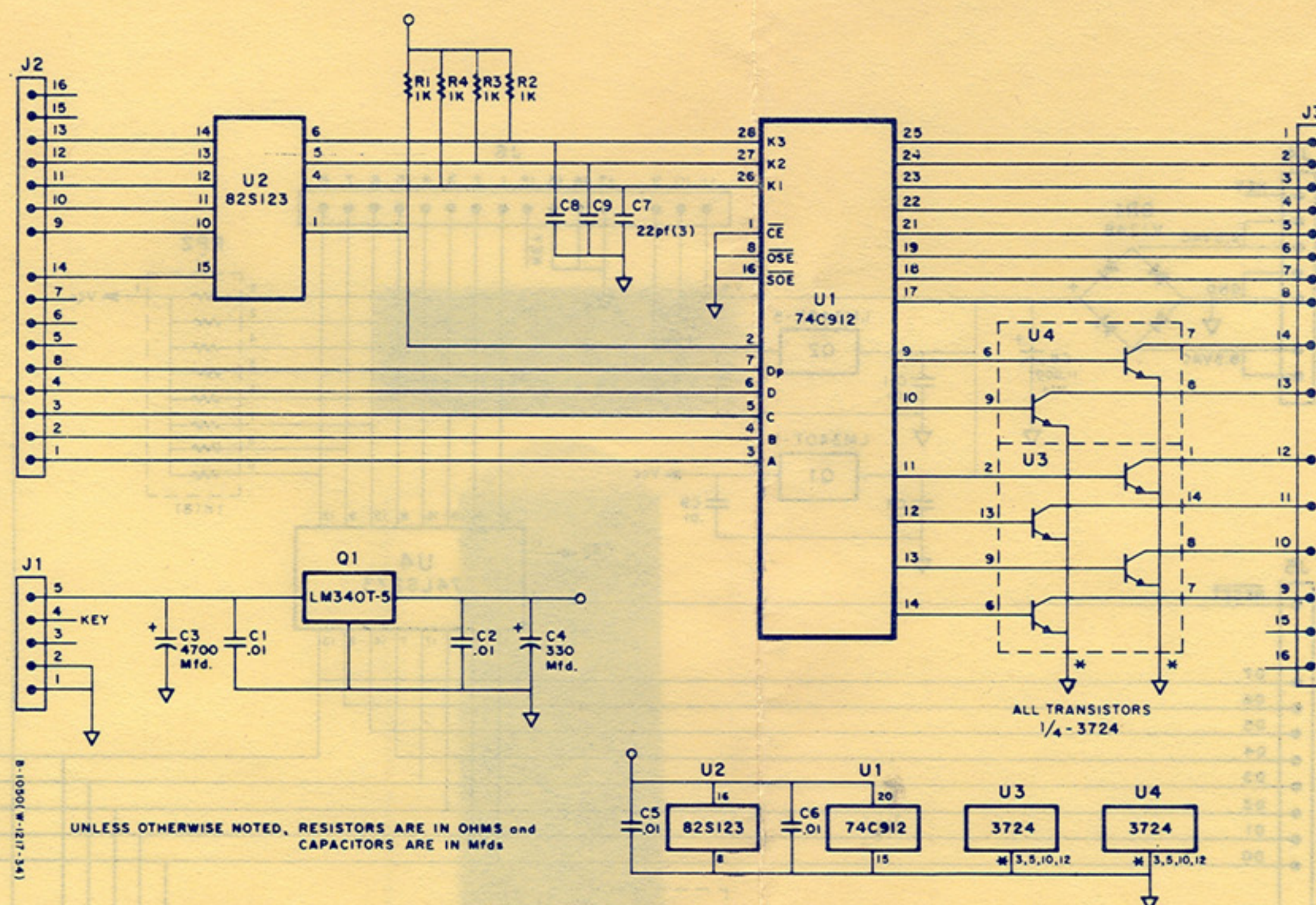
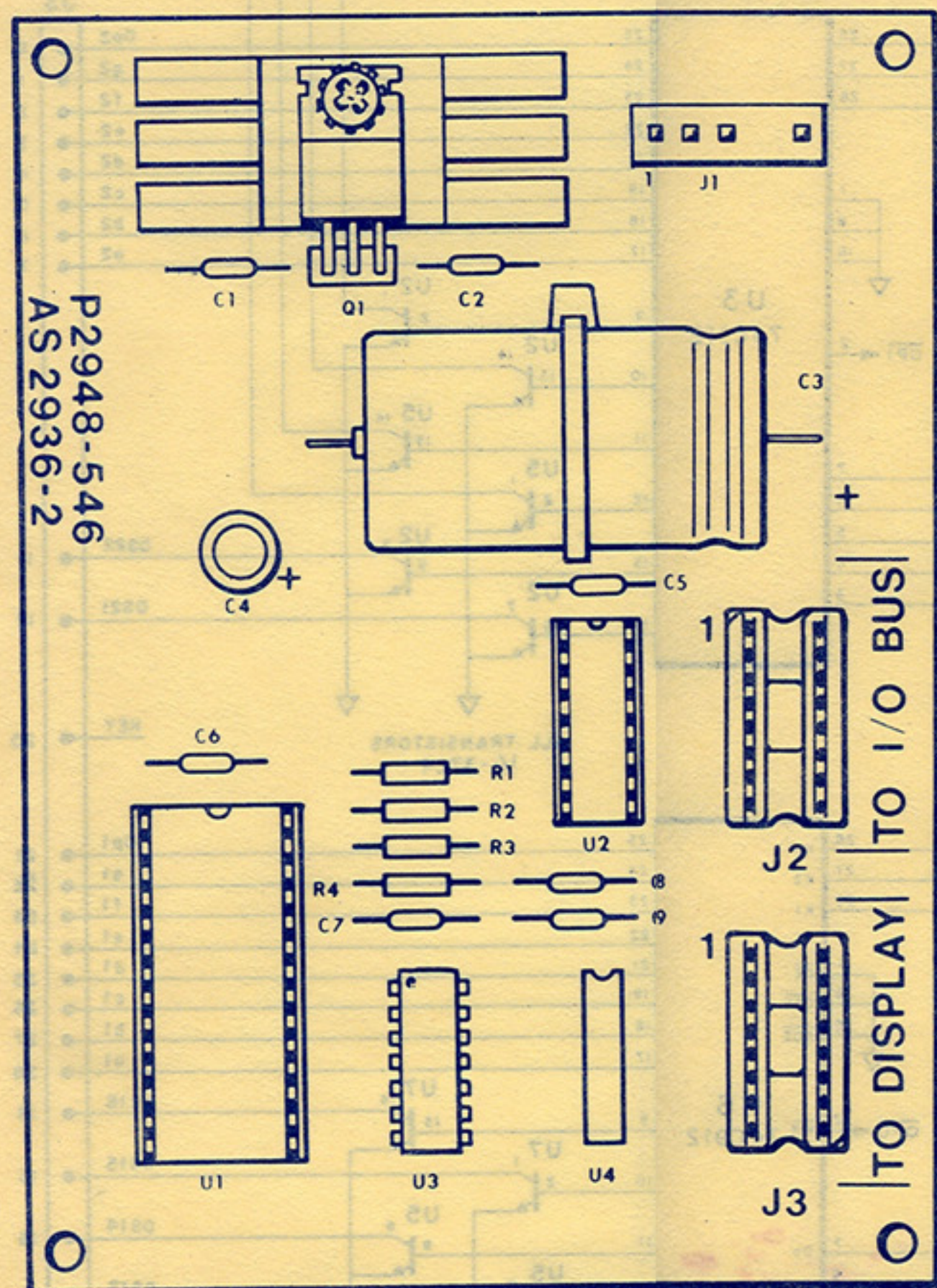
REPLAY REGISTER DISPLAY BOARD



AS-2936-1 REPLAY REGISTER DISPLAY BOARD ASSEMBLY

SYMBOL	PART NO.	DESCRIPTION
U1, U7	E-00620-0065	I.C. 7417 HEX BUFFER D.C.
U2, U3, U4, U5	E-00620-0064	I.C. 74174 HEX D-FF
	E-00712-0004	16 PIN I.C. SOCKET LOW PRO
U6	E-00751-0013	REPLAY REG. CONTROL PROM
U8, U9, U10, U11	E-00620-0008	I.C. 7447 BCD TO 7 SEG. DECODER
U12	E-00620-0066	L.M. 340T - 5 VOLT REGULATOR
	E-00662-0010	HEAT SINK THERMALLOY '6070'
	LSPR-632-1108	SCREW
	N-00832-2112	NUT
U13, U14, U15, U16	E-00600-0003	7 SEG. LED H.P. 5082-7650
	E-00712-6005	14 PIN I.C. SOCKET LOW PRO
R1 THRU R4	E-00105-0230	RESISTOR, 1K OHM, 1/4 WATT
R5	DELETED	
R6 THRU R13	E-00105-0230	RESISTOR, 1K OHM, 1/4 WATT
R14 THRU R41	E-00105-0280	RESISTOR, 470 OHM, 1/4 WATT
C1, C2, C3	E-00586-0085	CAPACITOR, .01 MFD, 25 V.
C4, C5	E-00586-0073	CAPACITOR, 4.7 MFD, 25 V.
J1	E-00712-0008	I.C. SOCKET (AUGUT 316-AG5D-4)
J2	E-00758-0007	KK 156 RIGHT ANGLE CONNECTOR

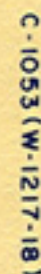
REPLAY DISPLAY DRIVER BOARD



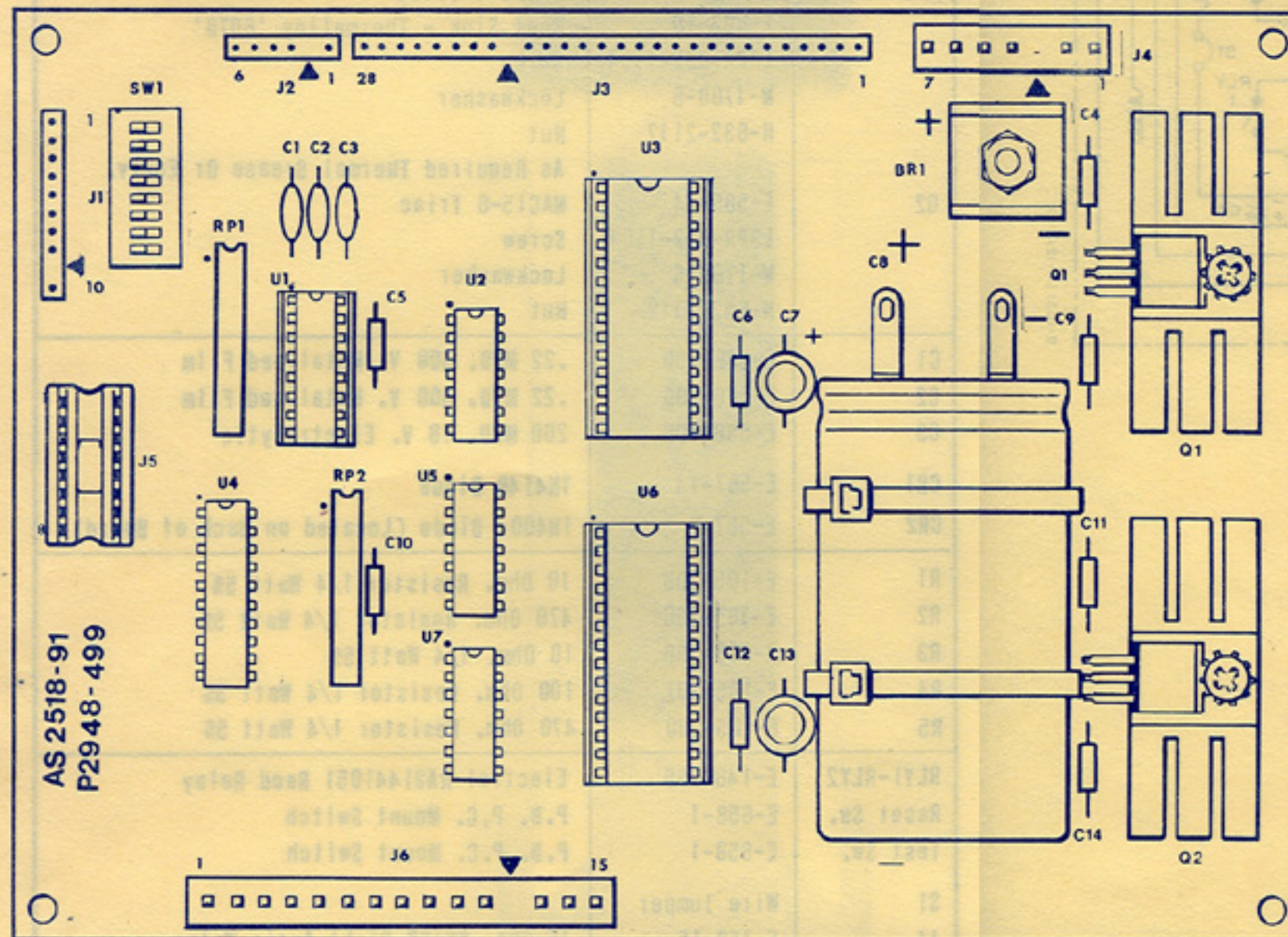
AS-2936-2 REPLAY DISPLAY DRIVER BOARD

SYMBOL	PART NO.	DESCRIPTION
U1	E-620-244 E-712-28	I.C. 74C912 Display Driver 28 Pin Dip Socket
U2	E-751-23 E-712-4	82S123 Prom 16 Pin Dip Socket
U3	E-681-1	3724 Transistor Array
U4	—	Not Used
R1, 2, 3, 4	E-105-230	1K Ohm Resistor
C1, 2, 5, 6	E-586-85	.10 MFD., 25V., Ceramic
C3	E-586-123	4700 MFD., 25V., Electrolytic
C4	E-586-99	33 MFD., 25V., Electrolytic
C7, 8, 9	E-586-154	22 PFD., 25V., Ceramic
Q1	E-620-66 E-682-10 LSPR-632-1106 M-1700-6 N-632-2112	LM340T-5 5 Volt Regulator Heat Sink THM-6070 Screw Lockwasher Nut
J1	E-736-5	5 Ckt. KK156 Wafer
J2, 3	E-712-8	I.C. Socket (AUGAT 316-AG5D-R)

SOUND DISPLAY/SOUND INTERFACE BOARDS



SOUND DISPLAY/SOUND INTERFACE BOARDS



ASE-2518-91 SOUND DISPLAY INTERFACE BOARD ASSEMBLY

*ASE-2518-113 SOUND INTERFACE BOARD ASSEMBLY

SYMBOL	PART NO.	DESCRIPTION
U1	E-751-23	82S123 PROM
U2, U5, U7	E-712-4	16 PIN DIP SOCKET
U3, U6	E-681-1	3724 TRANSISTOR ARRAY
	E-620-244	I.C. 74C912 DISPLAY DRIVER
	E-712-28	28 PIN DIP SOCKET
U4	E-620-180	I.C. 74LS273
Q1, Q2	E-620-86	LM340T-5 5 VOLTAGE REGULATOR
	E-682-9	HEAT SINK THM 6071 (UPPER)
	E-682-10	HEAT SINK THM 6070 (LOWER)
	LSPR-632-1106	SCREW
	M-1700-6	LOCKWASHER
	N-632-2112	NUT
BR1	E-602-3	VJ248 BRIDGE RECTIFIER
	P-6629-158	HEAT SINK
	LSPR-632-1110	SCREW
	M-1700-6	LOCKWASHER
	N-632-2112	NUT
C1-C3	E-586-154	22 PFD 25 V. CERAMIC
C4-C6	E-586-85	.01 Mfd. 25 V. CERAMIC
C7, C13	E-586-99	33 Mfd. 25 V. ELECTROLYTIC
C8	E-586-62	11,000 Mfd. 20 V. ELECTROLYTIC
	E-647-5	TIE WRAP (2)
C9-C12, C14	E-586-85	.01 Mfd. 25 V. CERAMIC
RP1, RP2	E-835-8	RESISTOR SIP 1 K. OHM
SW1	E-677	8 POSITION DIP SWITCH
J1	E-766-10	10 CKT. KK100 WAFER
J2	E-766-6	6 CKT. KK100 WAFER
J3	E-766-28	28 CKT. KK100 WAFER
J4	E-736-7	7 CKT. KK156 WAFER
J5	E-712-8	I.C. SOCKET (AUGAT 316-A650-R)
J6	E-736-15	15 CKT. KK156 WAFER

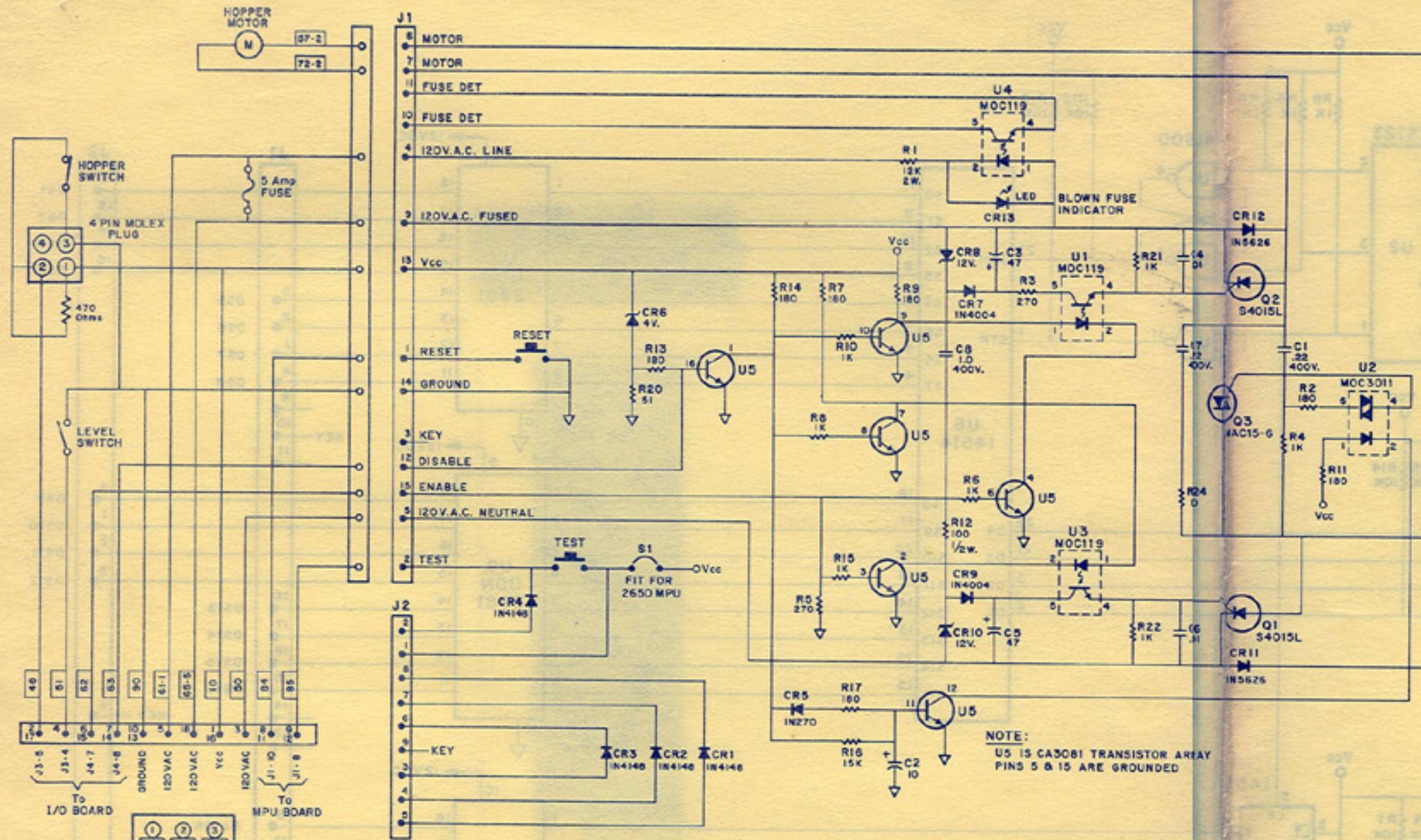
*This note refers to applicable Electronic Slot Models.

ASE-2518-113 Sound Interface Board Assembly uses the same components as ASE-2518-91 with the following exceptions:

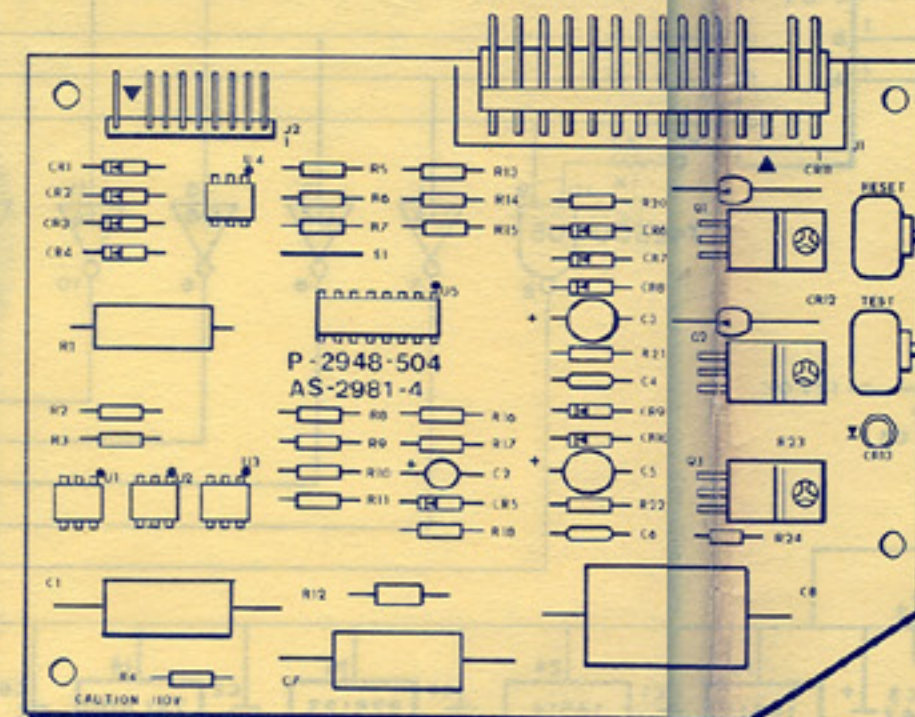
These components are not used.

U2, U3, U5, U6, U7, C1 thru C3, C6, C7, C12, C13, SW1 and J1 thru J3.

HOPPER CONTROL BOARD



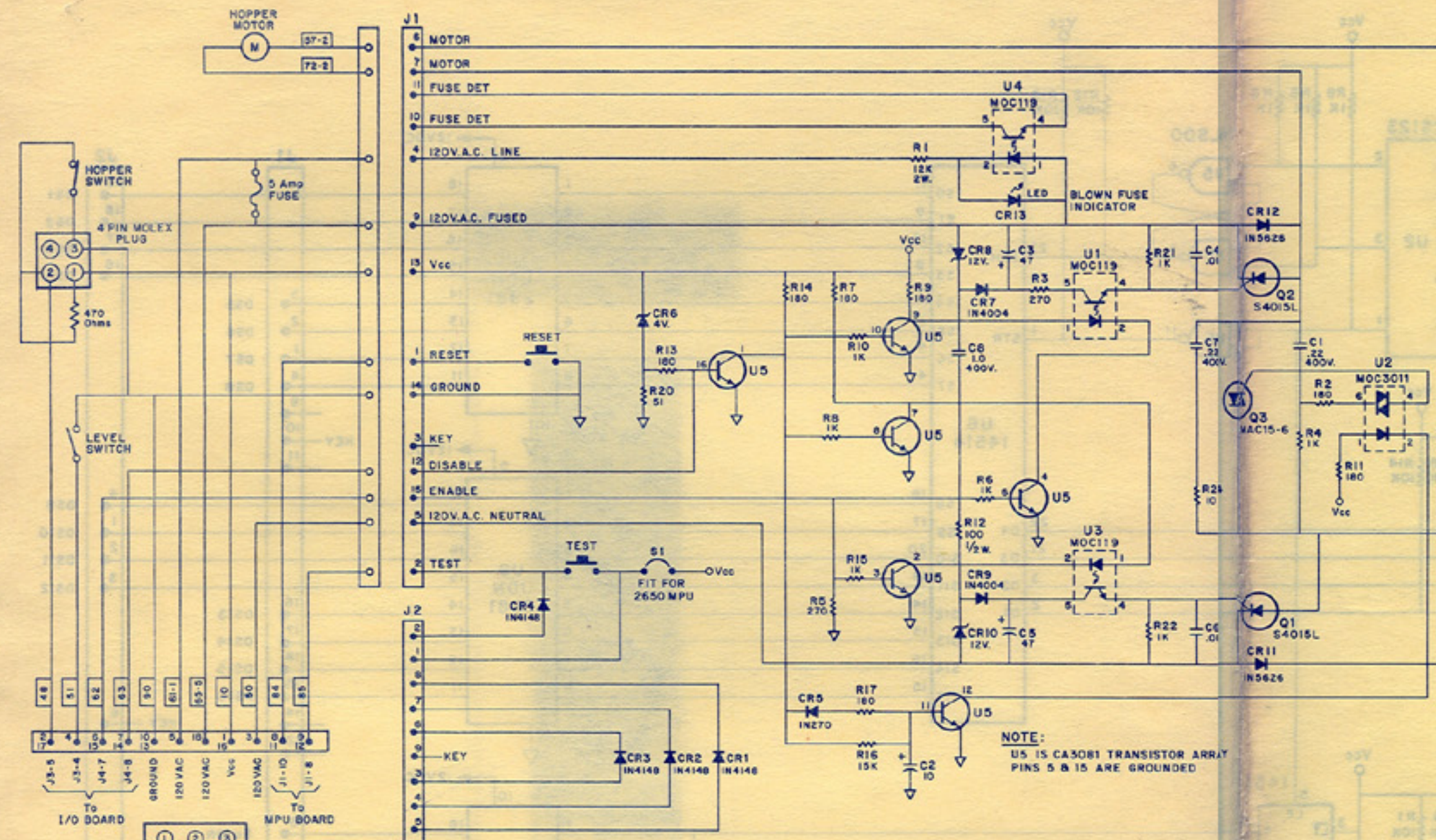
HOPPER CONTROL BOARD



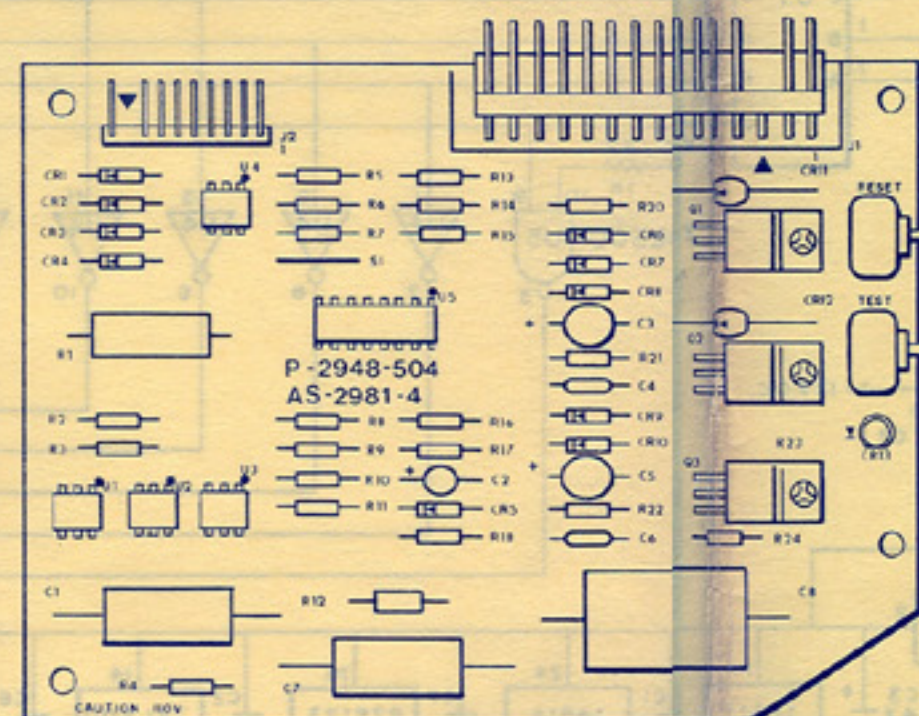
AS-2981-4 HOPPER CONTROL BOARD		
SYMBOL	PART NO.	DESCRIPTION
U1, U3, U4	E-620-243	MOC119 Opto Coupler
U2	E-620-172	Optically Isolated Triac Driver
U5	E-681	3081 NPN Transistor Array
Q1, Q2	E-585-76	S4015L 15A 400V. SCR
Q3	E-585-54	MAC15-6 15A 400V. Triac
Q1 thru Q3	M-496-1	Push Rivet Stud
CR1 thru CR4	E-587-14	1N4148 Diode
CR5	E-587	1N270 Diode
CR6	E-598-20	24.0C20MA Zener Diode
CR7, CR9	E-587-6	1N4004 Diode
CR8, CR10	E-598-28	1N5242A Zener Diode
CR11, CR12	E-587-25	1N5626 Diode
CR13	E-679-1	Red Led
C1, C7	E-586-207	.22MFD. 400V. Polyester Capacitor
C2	E-586-211	10MFD. 16V. Tantalum Capacitor
C3, C5	E-586-202	47MFD. 25V. Tantalum Capacitor
C4, C6	E-586-85	.01MFD. 25V. Ceramic Capacitor
C8	E-586-209	1. MFD. 400V. Polyester Capacitor
R1	E-105-76	12K Ohm 2W. 10% Resistor
R2, R7, R9, R11	E-105-235	180 Ohm 1/4W. 5% Resistor
R13, R14, R17	E-105-235	180 Ohm 1/4W. 5% Resistor
R3, R5, R18	E-105-264	270 Ohm 1/4W. 5% Resistor
R4, R6, R8, R10	E-105-230	1K Ohm 1/4W. 5% Resistor
R15, R21, R22	E-105-230	1K Ohm 1/4W. 5% Resistor
R12	E-105-265	100 Ohm 1/2W. 5% Resistor
R16	E-105-281	15K Ohm 1/4W. 5% Resistor
R20	E-105-134	51 Ohm 1/4W. 5% Resistor
R24	E-105-306	10 Ohm 1/4W. 5% Resistor
Test	E-658-1	P.C. Mount Switch
Reset	E-658-1	P.C. Mount Switch
J1	E-758-15	15 Ckt. KK156 Rt. Angle Wafer
J2	E-768-10	10 Ckt. KK100 Rt. Angle Wafer
S1		Wire Jumper



HOPPER CONTROL BOARD



HOPPER CONTROL BOARD



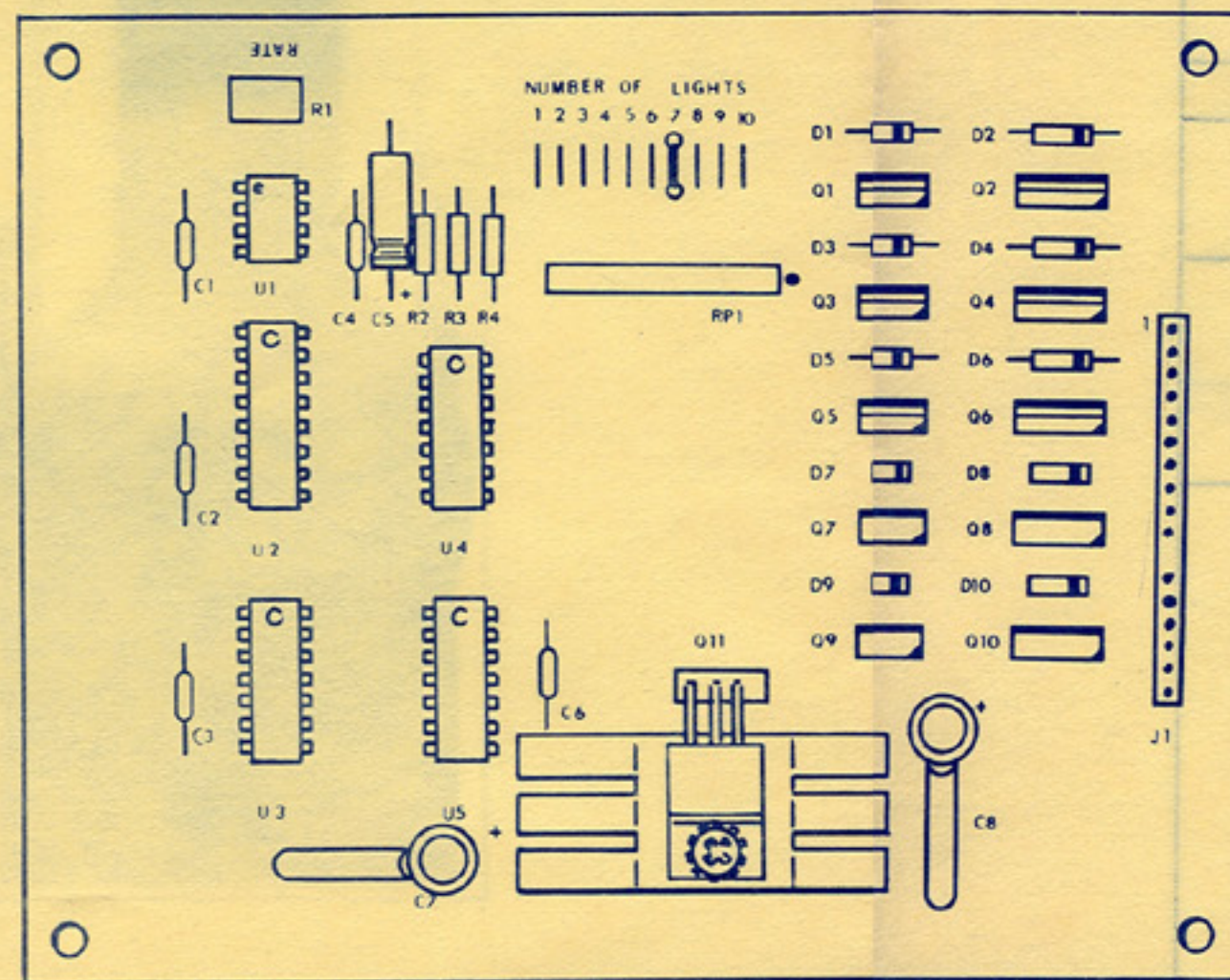
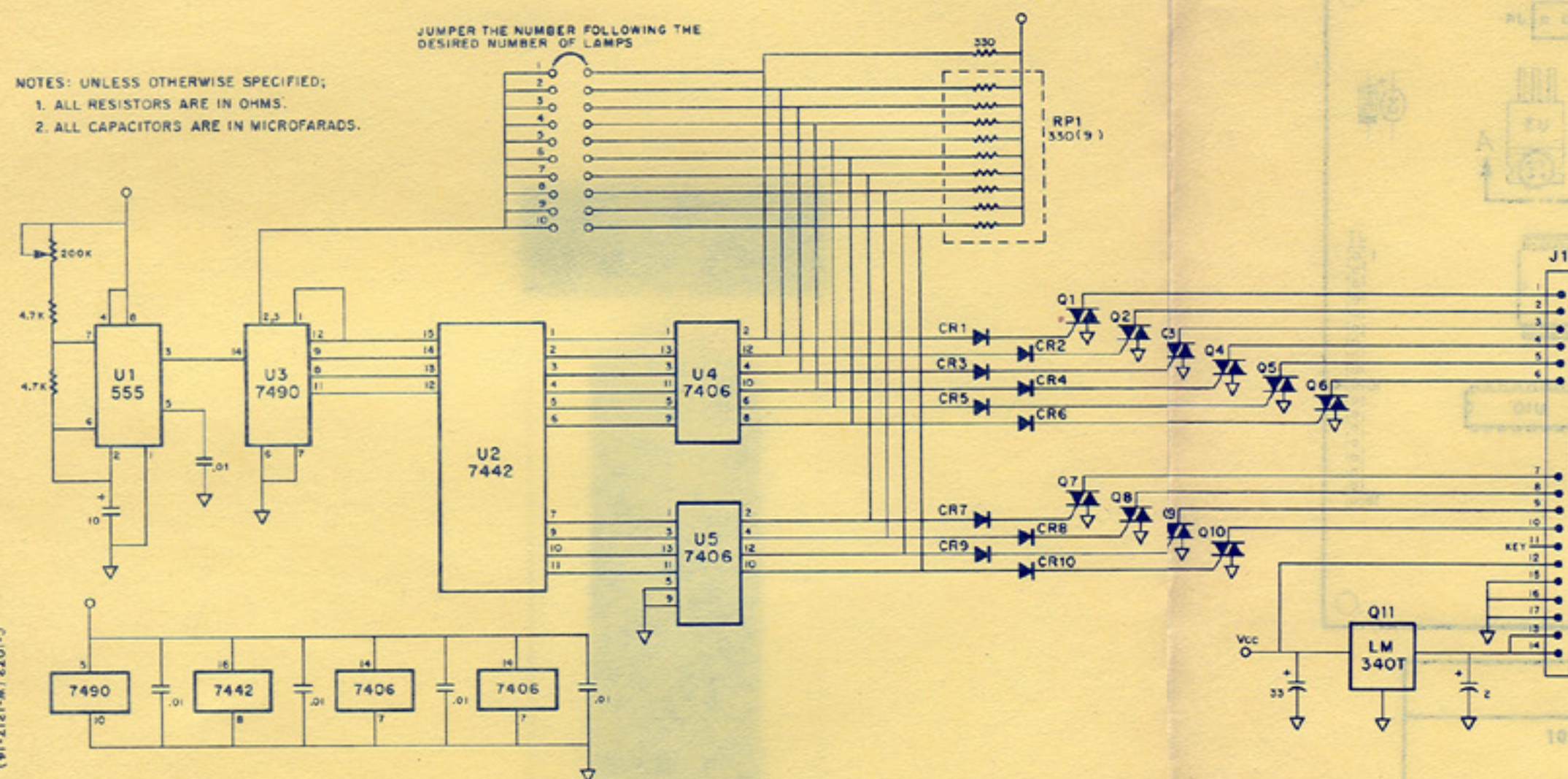
AS-2981-4 HOPPER CONTROL BOARD

SYMBOL	PART NO.	DESCRIPTION
U1, U3, U4 U2 U5	E-620-243 E-620-172 E-681	MOC119 Opto Coupler Optically Isolated Triac Driver 3081 NPN Transistor Array
Q1, Q2 Q3 Q1 thru Q3	E-585-76 E-585-54 M-496-1	S4015L 15A 400V. SCR MAC15-6 15A 400V. Triac Push Rivet Stud
CR1 thru CR4 CR5 CR6 CR7, CR9 CR8, CR10 CR11, CR12 CR13	E-587-14 E-587 E-598-20 E-587-6 E-598-28 E-587-25 E-679-1	1N4148 Diode 1N270 Diode 24.0C20MA Zener Diode 1N4004 Diode 1N5242A Zener Diode 1N5626 Diode Red Led
C1, C7 C2 C3, C5 C4, C6 C8	E-586-207 E-586-211 E-586-202 E-586-85 E-586-208	.22MFD. 400V. Polyester Capacitor 10MFD. 16V. Tantalum Capacitor 47MFD. 25V. Tantalum Capacitor .01MFD. 25V. Ceramic Capacitor 1. MFD. 400V. Polyester Capacitor
R1 R2, R7, R9, R11 R13, R14, R17 R3, R5, R18 R4, R6, R8, R10 R15, R21, R22 R12 R16 R20 R24	E-105-76 E-105-235 E-105-235 E-105-264 E-105-230 E-105-230 E-105-265 E-105-281 E-105-134 E-105-306	12K Ohm 2W. 10% Resistor 180 Ohm 1/4W. 5% Resistor 180 Ohm 1/4W. 5% Resistor 270 Ohm 1/4W. 5% Resistor 1K Ohm 1/4W. 5% Resistor 1K Ohm 1/4W. 5% Resistor 100 Ohm 1/2W. 5% Resistor 15K Ohm 1/4W. 5% Resistor 51 Ohm 1/4W. 5% Resistor 10 Ohm 1/4W. 5% Resistor
Test Reset	E-658-1 E-658-1	P.C. Mount Switch P.C. Mount Switch
J1 J2 S1	E-758-15 E-768-10 —	15 Ckt. KK156 Rt. Angle Wafer 10 Ckt. KK100 Rt. Angle Wafer Wire Jumper

LIGHT CONTROL BOARD

NOTES: UNLESS OTHERWISE SPECIFIED;
1. ALL RESISTORS ARE IN OHMS.
2. ALL CAPACITORS ARE IN MICROFARADS.

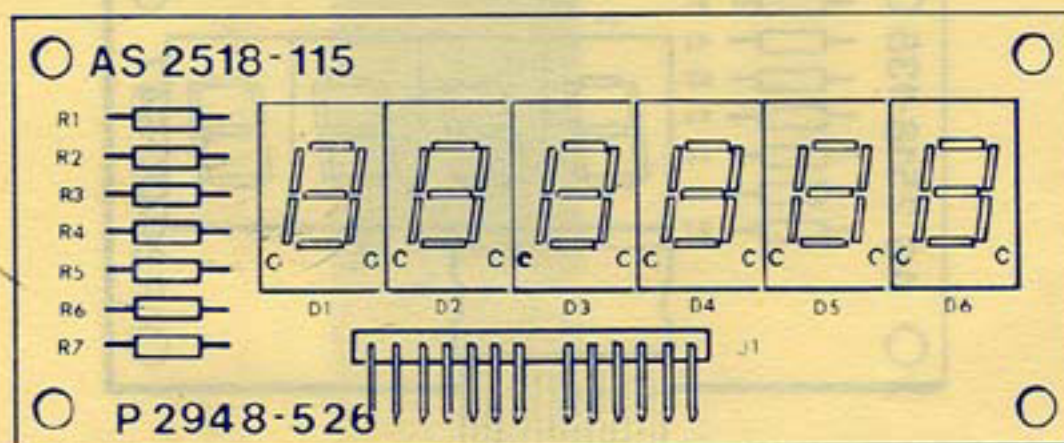
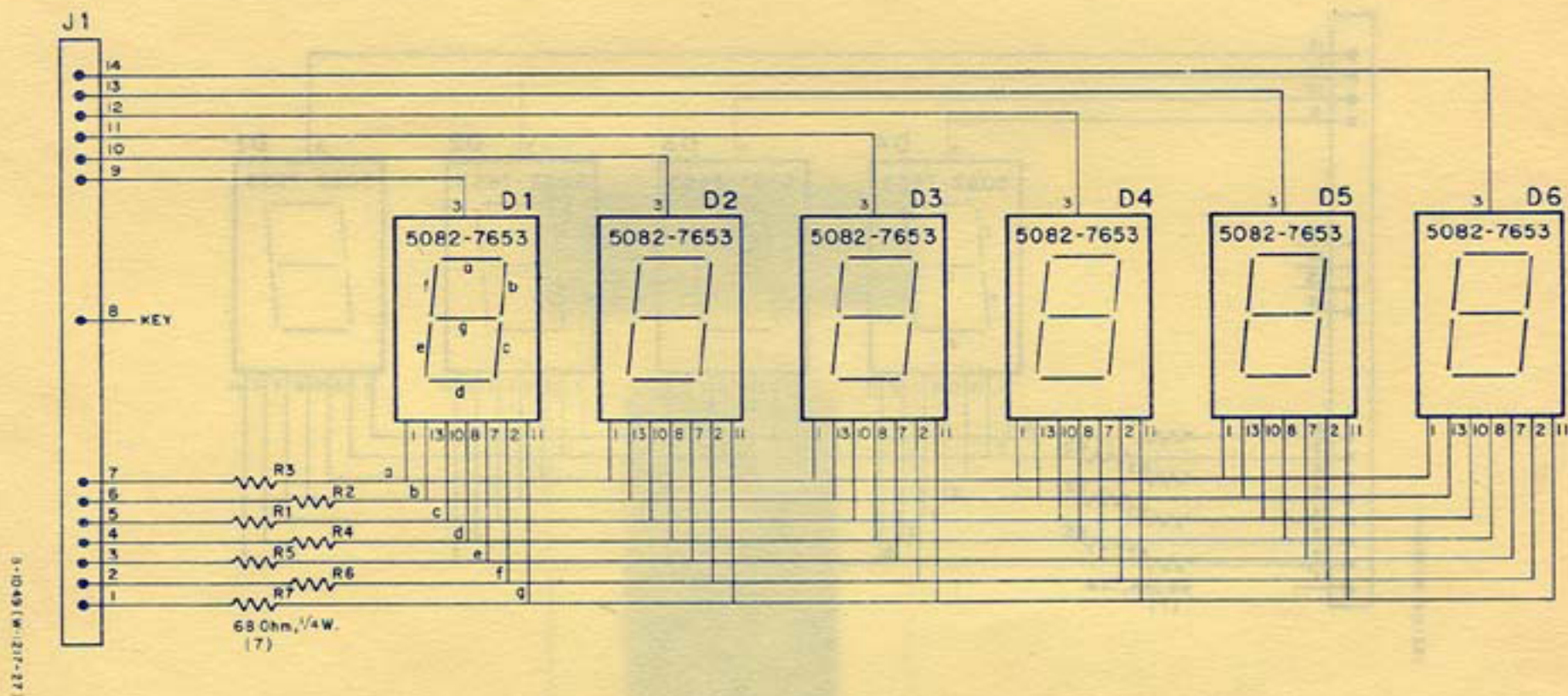
JUMPER THE NUMBER FOLLOWING THE
DESIRED NUMBER OF LAMPS



AS-2518-86 LIGHT CONTROL BOARD		
SYMBOL	PART NO.	DESCRIPTION
U1	E-620-4	555 I.C. Timer
U2	E-620-246	7442 I.C. 1 Of 10 BCD Decoder
U3	E-620-147	7490 I.C. Decade Counter
U4, U5	E-620-245	7406 I.C. Hex Inv. Buffer
Q1 thru Q6	E-585-44	T106A1SG Triac
Q7 thru Q10	—	Not Used
Q11	E-620-66	LM-340T-5 5VDC Regulator
	E-682-10	Heat Sink THM 6070
	LSPR-632-1106	Screw
	M-1700-6	Lockwasher
	N-632-2112	Nut
		(Thermal Compound As Needed)
D1 thru D6	E-587-14	1N4148 Diode
D7 thru D10	—	Not Used
R1	E-599-24	10K Ohm Potentiometer
R2, R3	E-105-239	4.7K Ohm Resistor, 1/4 W., 5%
R4	E-105-219	330 Ohm Resistor, 1/4 W. 5%
RP1	E-835-10	330 Ohm S.I.P. Resistor Network
C1 thru C4, C6	E-586-85	.01 Mfd. Capacitor, Ceramic 25 V. Min.
C5	E-586-135	10 Mfd. Capacitor, Electrolytic 16 V.
C7	E-586-99	33 Mfd. Capacitor, Electrolytic
C8	E-586-8	2 Mfd. Capacitor, Electrolytic 50 V.
J1	E-766-17	17 Ckt. KK-100 Wafer
Light No. 7	—	Wire Jumper in Circuit

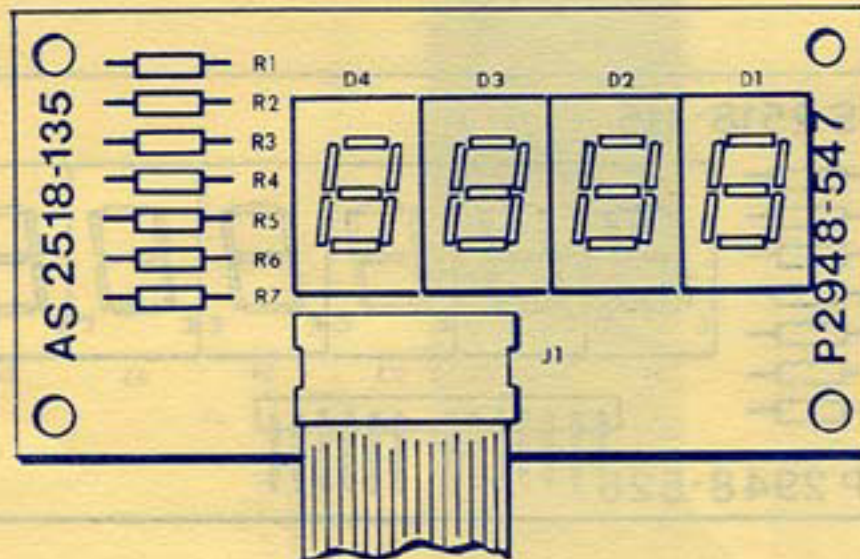
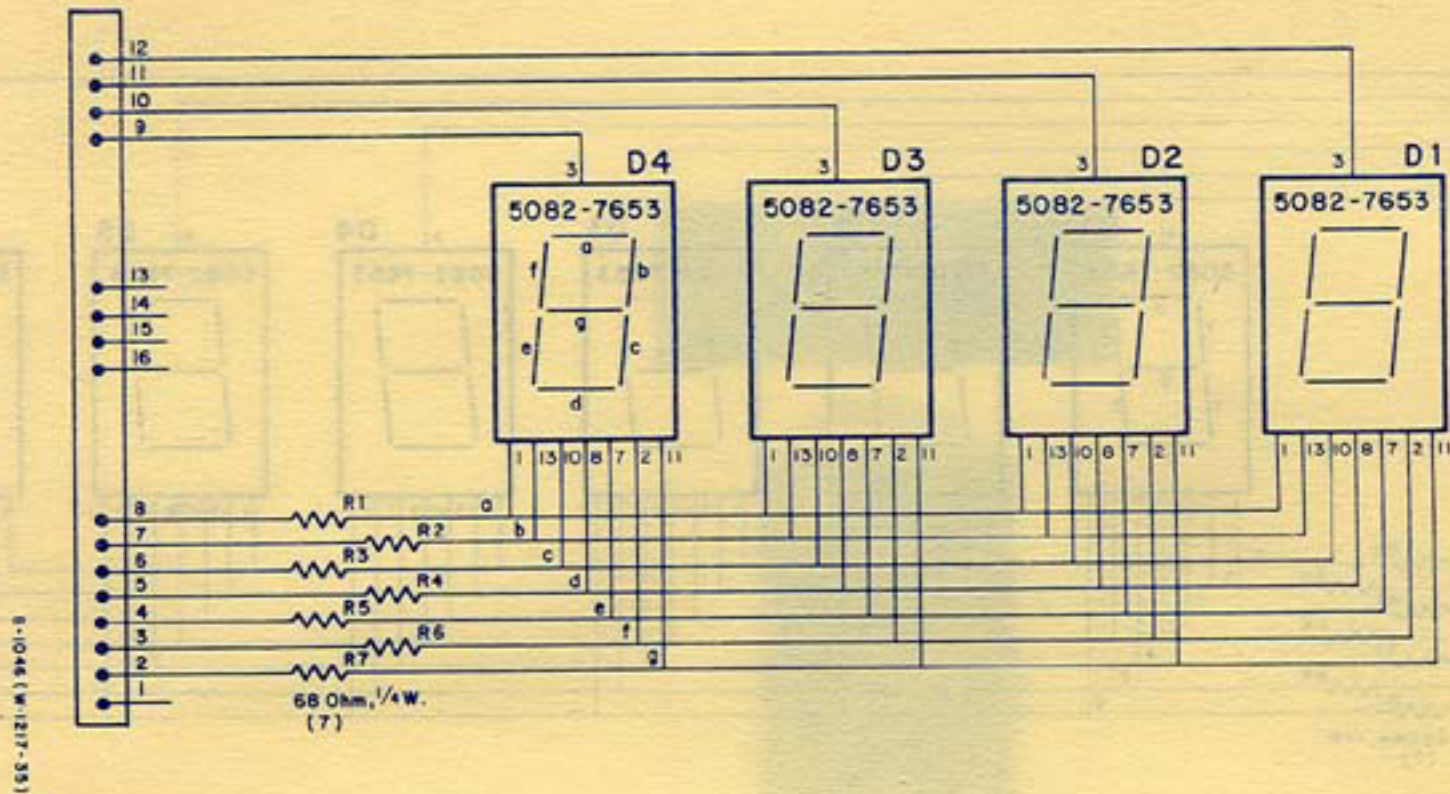
U2
U3
U4

REGISTER DISPLAY BOARD



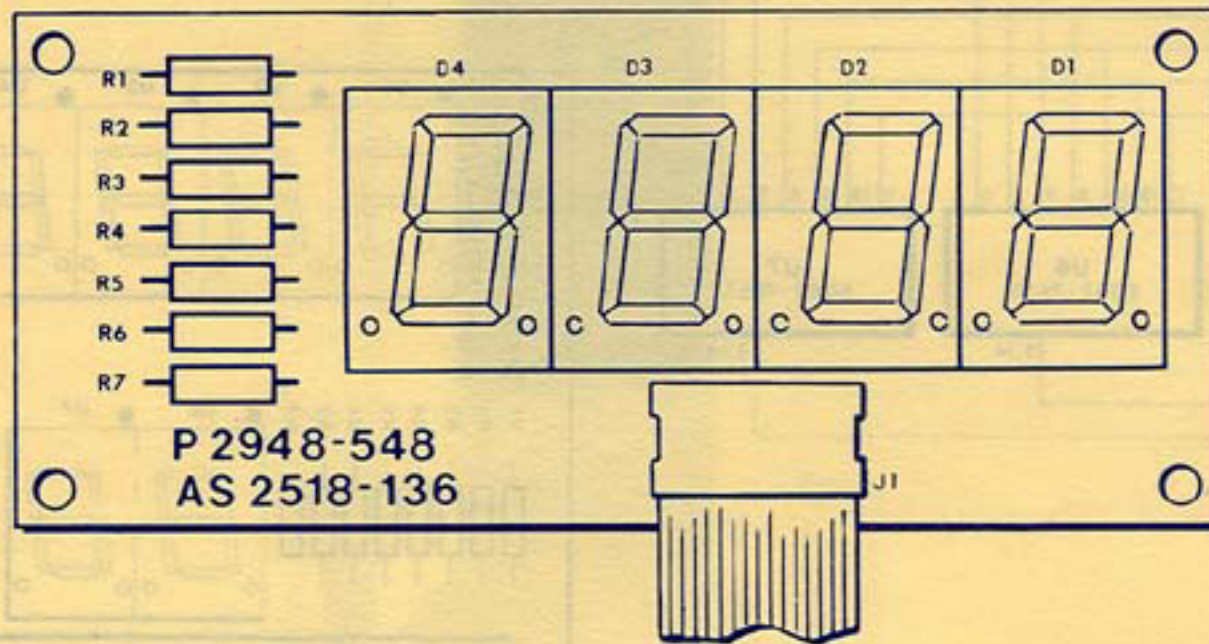
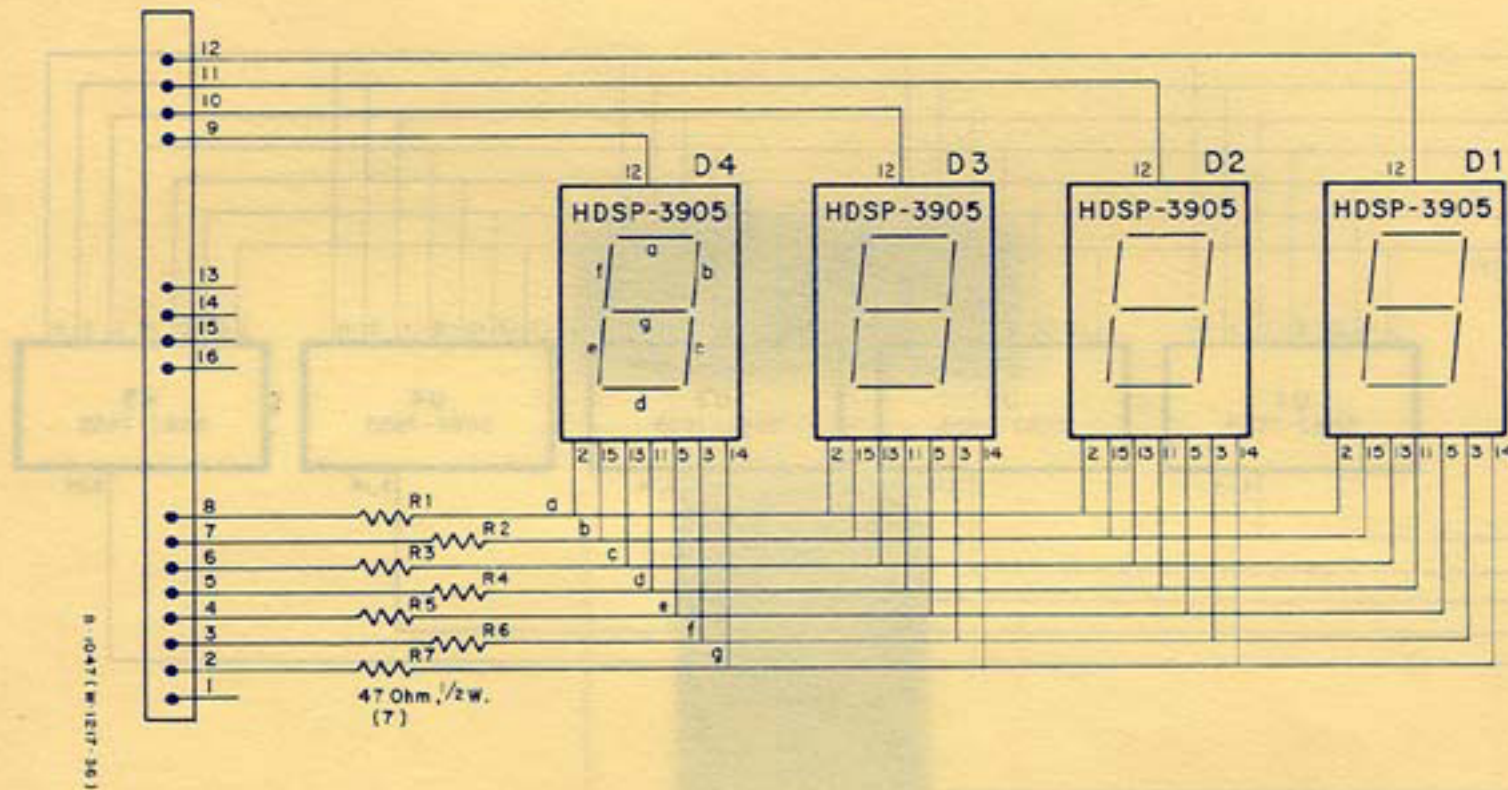
AS-2518-115 REGISTER DISPLAY BOARD			
SYMBOL	PART NO.	DESCRIPTION	
D1 thru D6	E-680-14	5082-7653 Display	
R1 thru R7	E-105-213	68 Ohm 1/4W. 5% Resistor	
J1	E-768-14	14 Ckt. KK-100 Right Angle Wafer	

SMALL REPLAY REGISTER DISPLAY BOARD



AS-2518-135 SMALL REPLAY REGISTER DISPLAY		
SYMBOL	PART NO.	DESCRIPTION
D1 thru D4	E-680-14	5082-7653 Display
R1 thru R7	E-105-213	68 Ohm 1/4W, 5% Resistor
J1		16 Connector Flat Cable - Installed

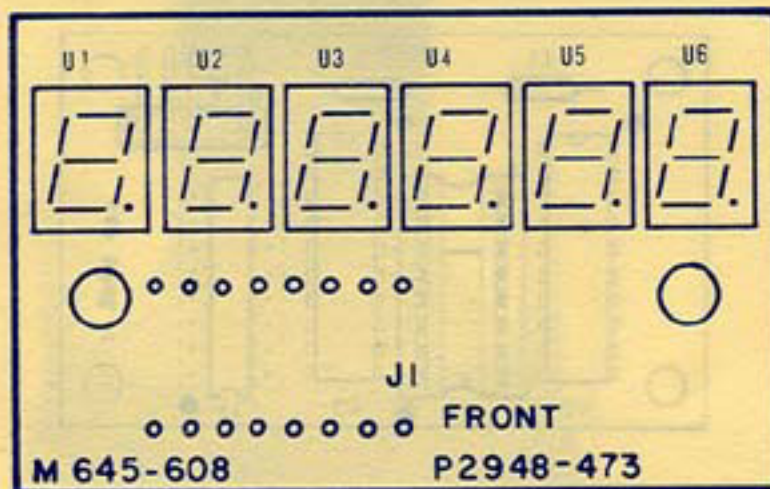
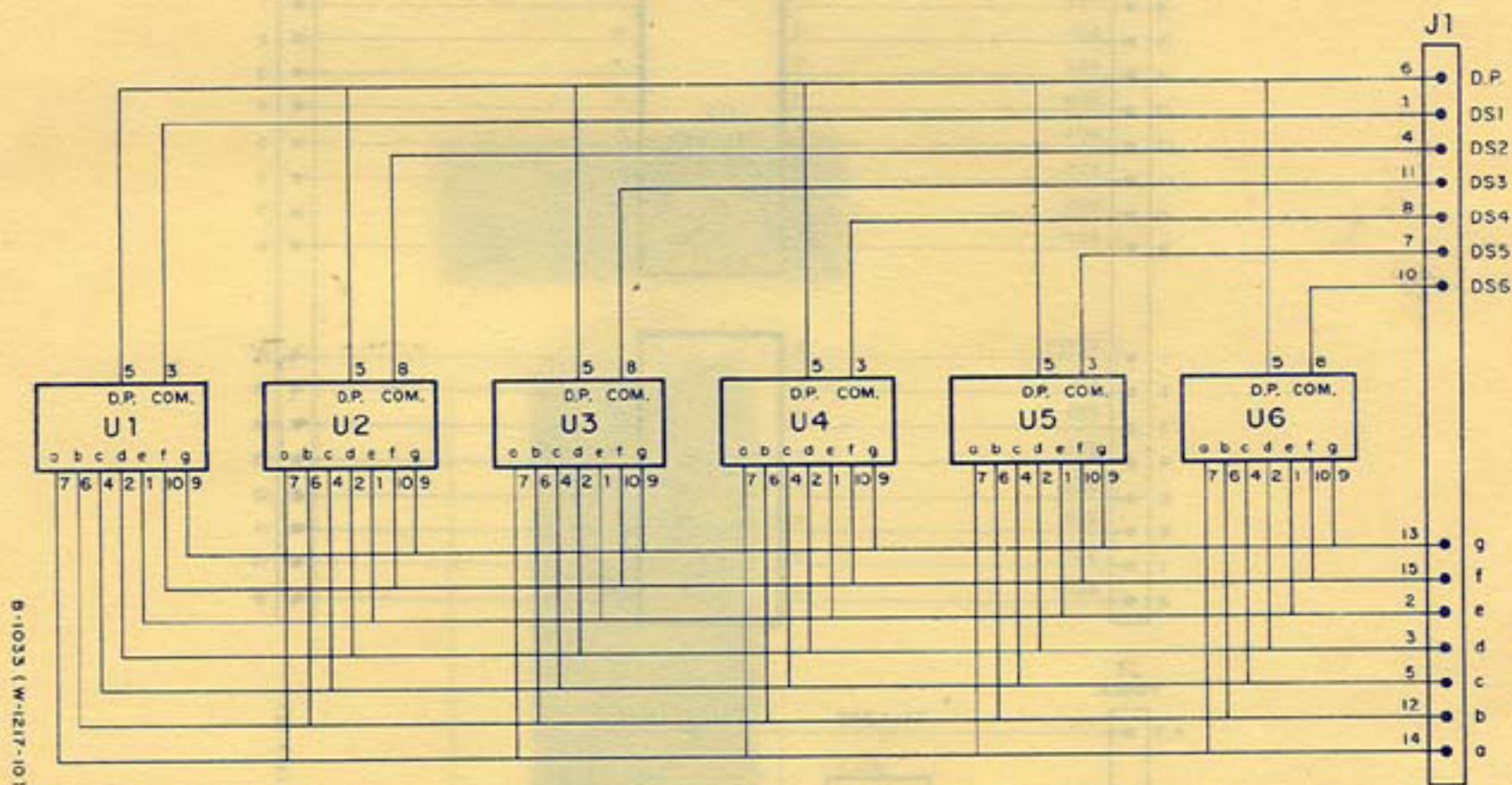
LARGE REPLAY REGISTER DISPLAY BOARD



AS-2518-136 LARGE REPLAY REGISTER DISPLAY		
SYMBOL	PART NO.	DESCRIPTION
D1 thru D4	E-680-16	HDSP-3905 Display
R1 thru R7	E-105-84	47 Ohm 1/2W. 10% Resistor
J1		16 Connector Flat Cable - Installed

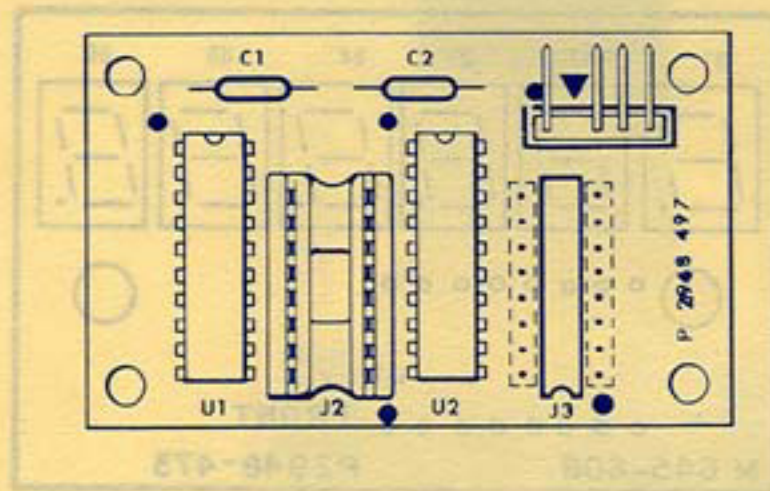
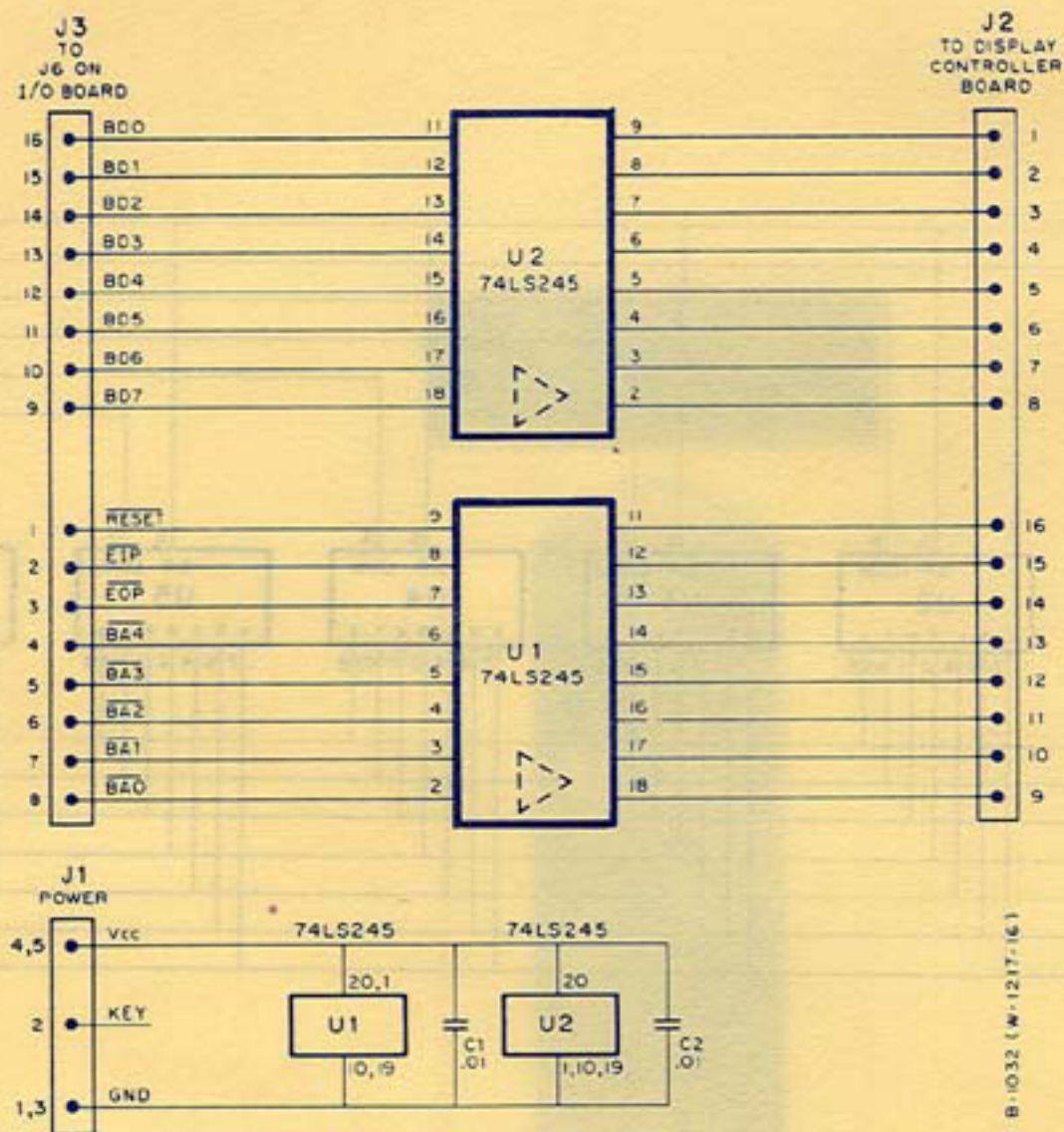
METER & WIN

DISPLAY BOARD



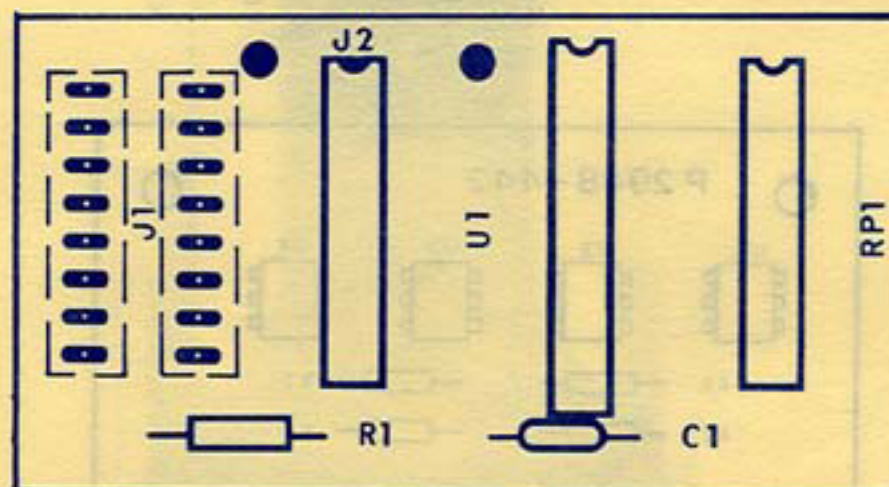
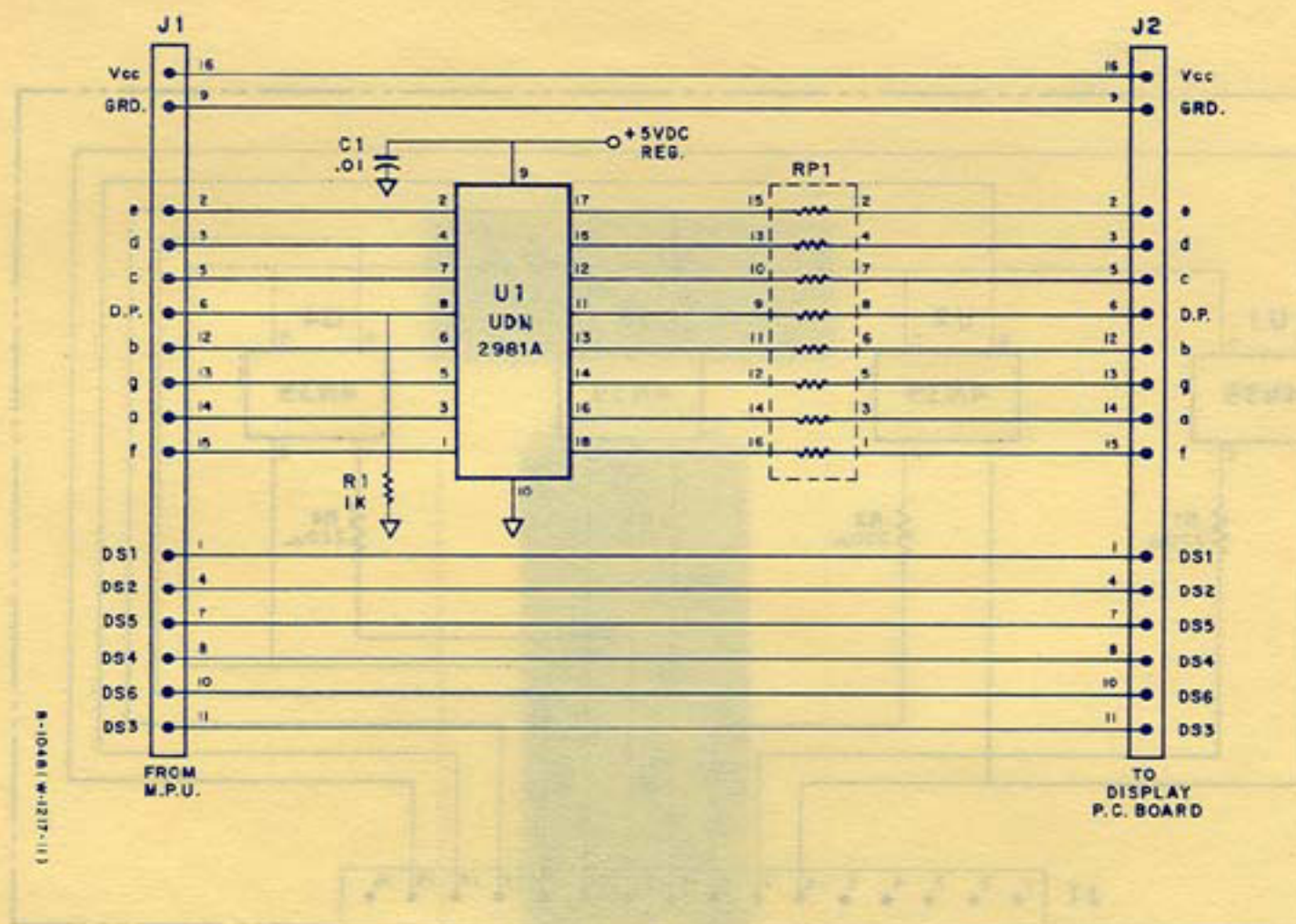
AS-2985-2 DISPLAY BOARD ASSEMBLY		
SYMBOL	PART NO.	DESCRIPTION
J1	-	16 CONNECTOR FLAT CABLE - INSTALLED
U1 thru U6	E-680-11	LITRONIX HD-1077R, 7 SEG. DISPLAY

I/O BUFFER BOARD



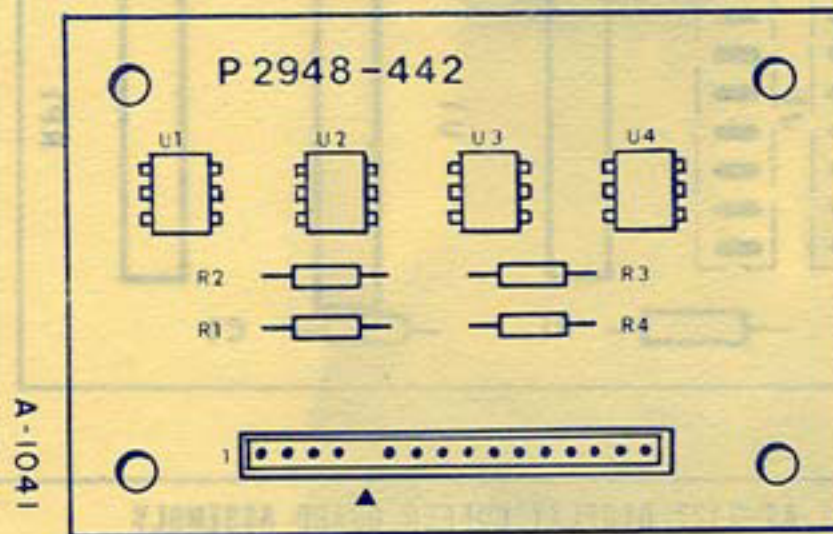
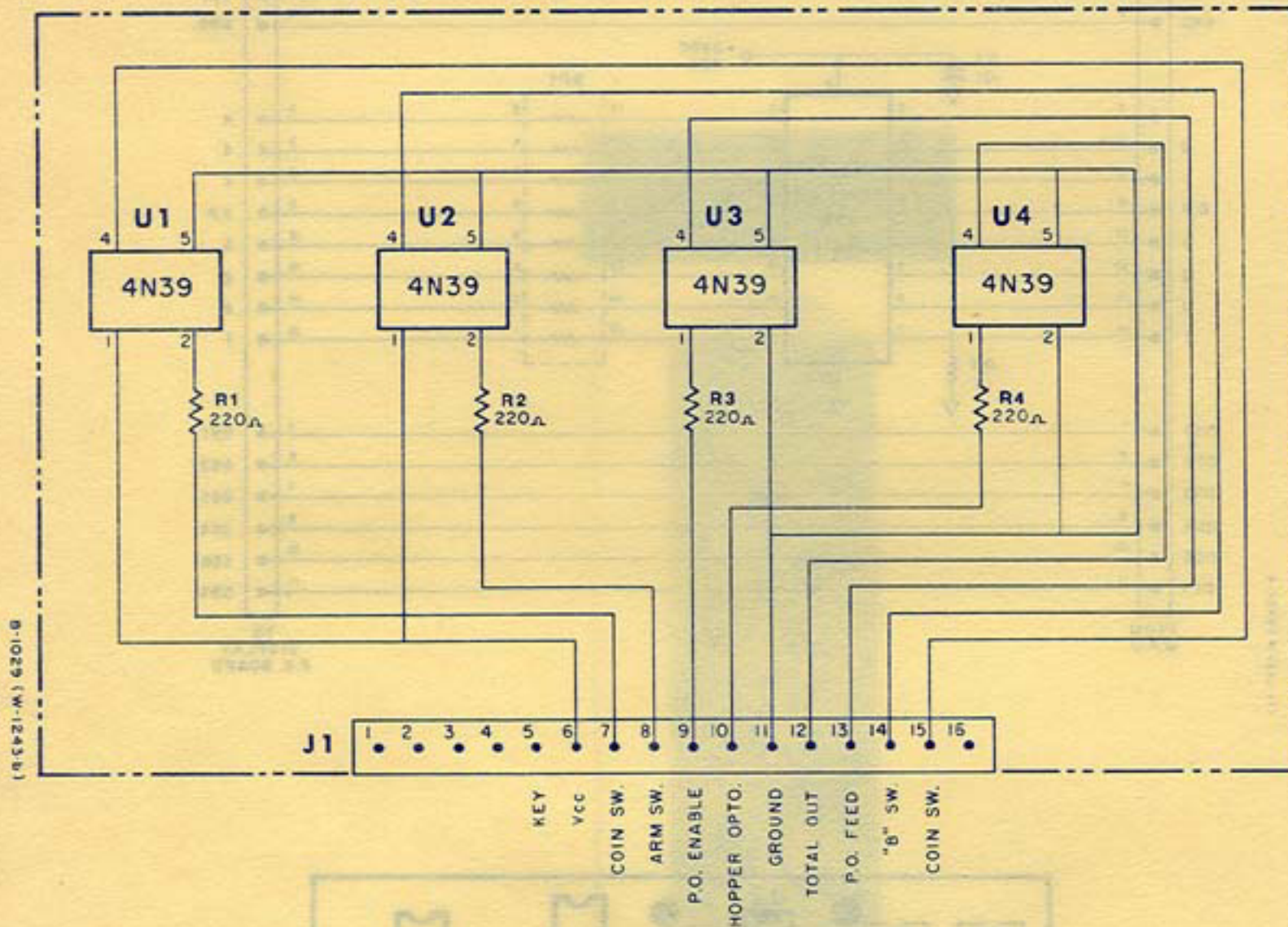
ASE-2518-89 I/O BUFFER BOARD ASSEMBLY		
SYMBOL	PART NO.	DESCRIPTION
U1, U2	E-620-184	INTEGRATED CIRCUIT 74LS245
C1, C2	E-586-85	CAPACITOR .01 Mfd. 25 V.
J1	E-768-5	5 CKT. KK100 WAFER - RT. ANG.
J2	E-712-8	1.C. SOCKET (AUGAT 316-AG5D-4)
J3	E-766-8	8 CKT. KK100 WAFER (2)

DISPLAY BUFFER BOARD



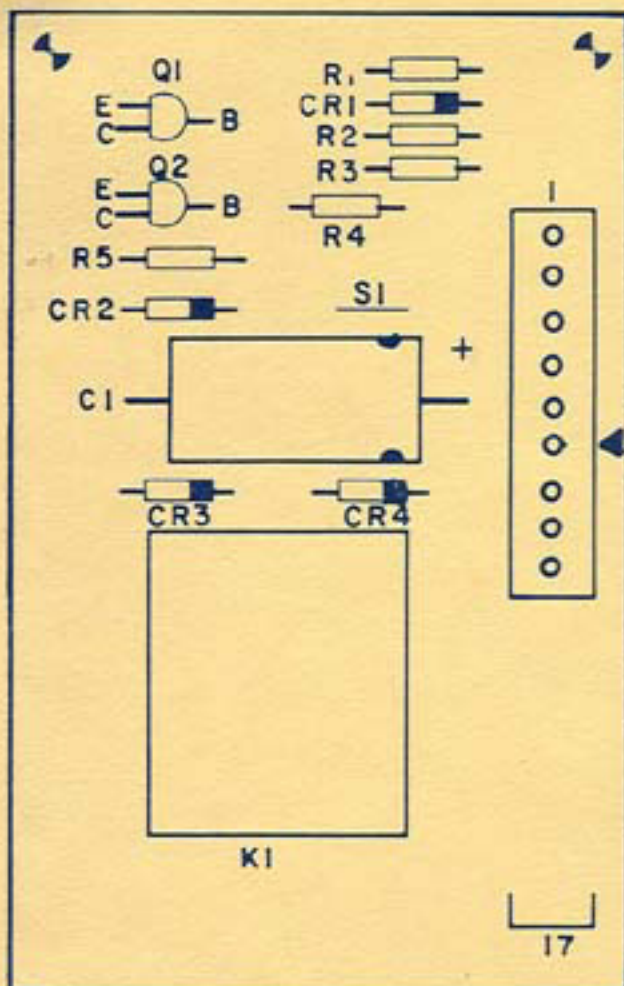
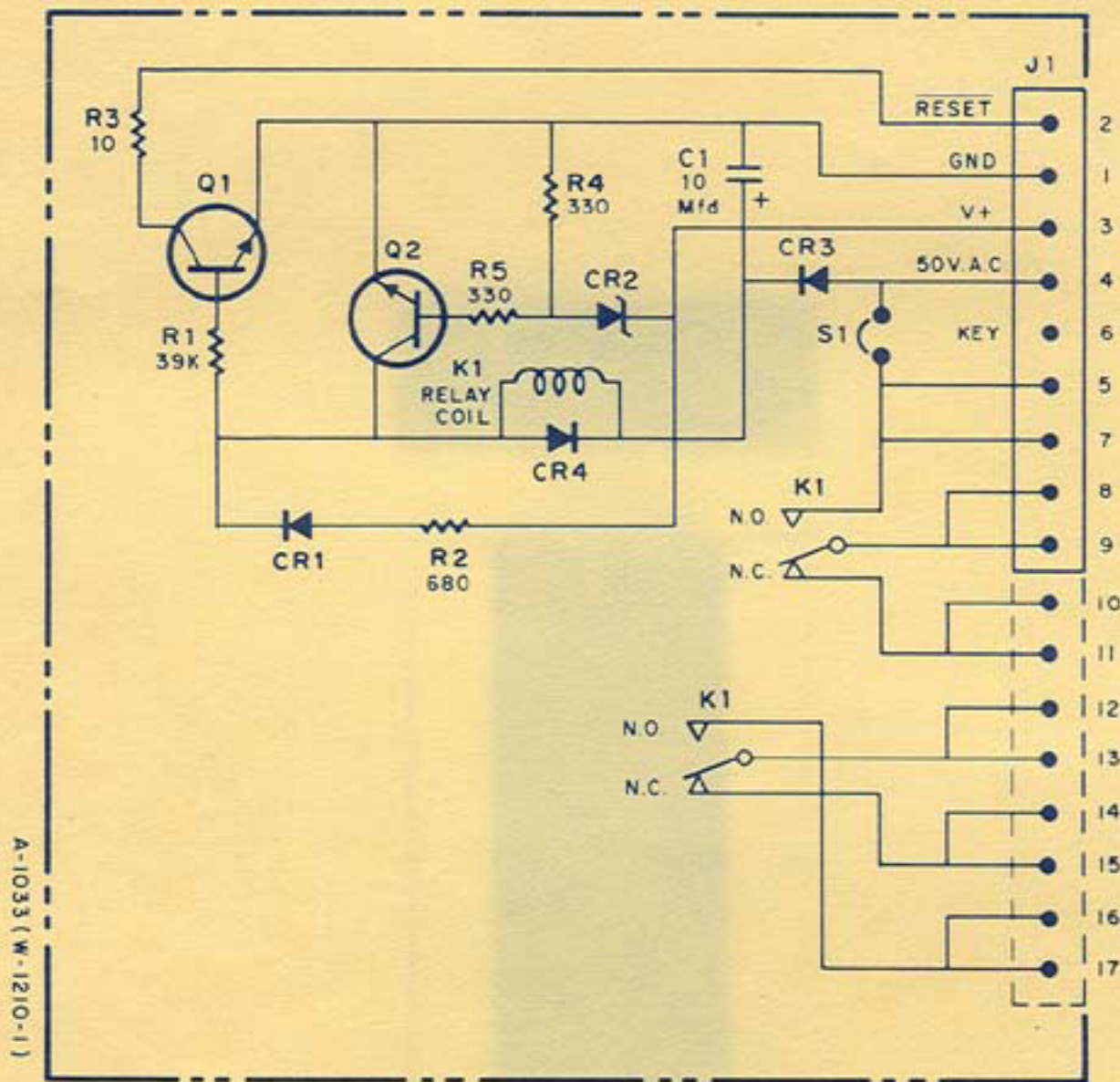
AS-3127 DISPLAY BUFFER BOARD ASSEMBLY		
SYMBOL	PART NO.	DESCRIPTION
C1	E-586-85	.01 Mfd. CAPACITOR 25V. CERAMIC
J1	E-766-8	8 CKT. KK-100 WAFER (2)
J2	E-712-8	16 PIN DIP SOCKET
R1	E-105-230	1K Ohm RESISTOR 1/4 WATT 5%
RP1	E-678-2	DIP RESISTOR
U1	E-620-89	UDN 2981A OCTAL SOURCE DRIVERS

SDS OPTO BOARD



AS-3093 SDS OPTO BOARD		
SYMBOL	PART NO.	DESCRIPTION
U1 thru U4	E-620-164	I.C. 4N39 Photo-SCR
R1 thru R4	E-105-149	Resistor, 220 Ohm, 1/2 Watt
J1	E-766-16	16 Ckt. KK100 Wafer

DELAY RELAY BOARD



SYMBOL	PART NO.	DESCRIPTION
C1	E-586-149	Axial 10mfd @100V. Cap.
CR1	E-587-6	1N4004 Diode
CR2	E-598-19	6.3V. @2ma 1% Zener
CR3	E-587-6	1N4004 Diode
CR4	E-587-6	1N4004 Diode
J1	E-756-9	9 Pin KK 156 Conn
K1	E-146-795	48VDC Relay
P.C.	P-2948-472	P.C. Board M-645-606
Q1	E-585-71	2N4401 Transistor
Q2	E-585-33	MPS-A42 Transistor
R1	E-105-231	39K Ohm 1/4 Watt 5%
R2	E-105-277	680 Ohm 1/4 Watt 5%
R3	E-105-306	10 Ohm 1/4 Watt 5%
R4	E-105-219	330 Ohm 1/4 Watt 5%
R5	E-105-219	330 Ohm 1/4 Watt 5%
S1	—	Wire Jumper Installed