

DRAWING SET

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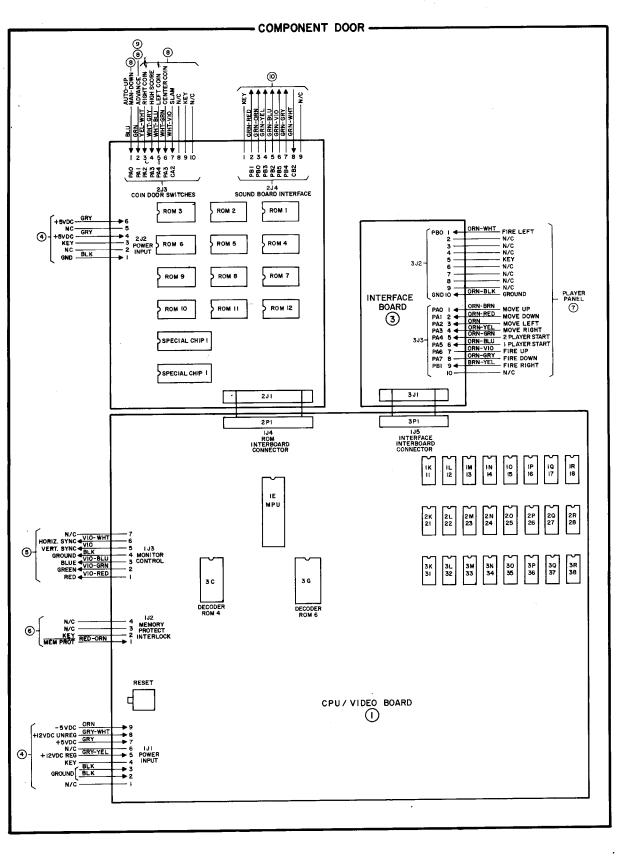
IN ILLINOIS CALL: 800-572-1324

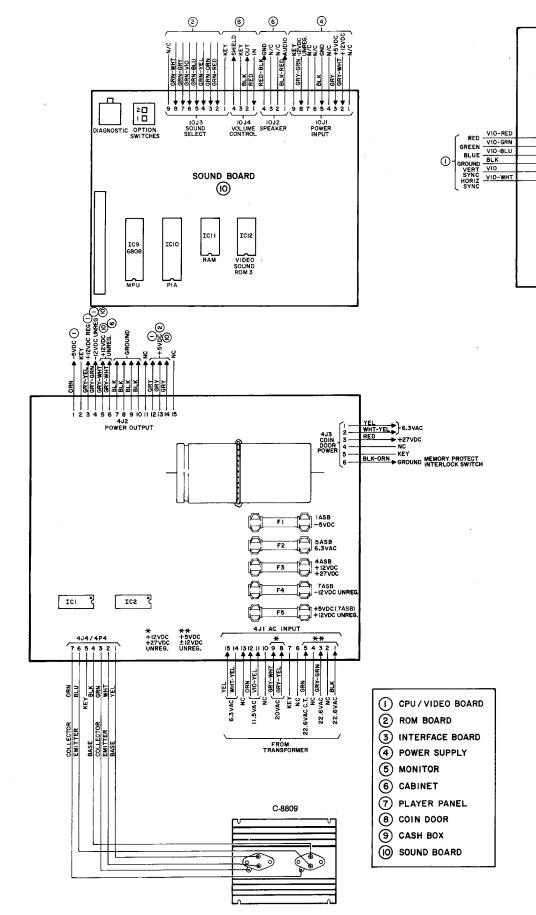


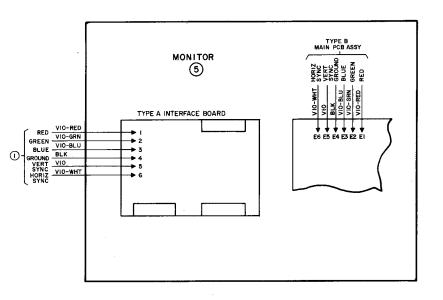
3401 N. California Av. Chicago, IL 60618 Cable Address: WILCOIN, CHICAGO (312) 267-2240

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MORY PROTECT TERLOCK SWITCH

C-8809 heat sink assembly

Part No.	Description
5162-09425	2N6057, Transistor, NPN
5161-09552	2N3055, Transistor, NPN
5705-09684	Heat Sink
5700-09445	Socket, TO3
5701-09562	Thermal Pad
4006-01003-10	Machine Screw 6-32x5/8"

IDEO BOARD

DARD

AGE BOARD

SUPPLY

DR

T

R

PANEL

OOR

OX BOARD

	NO.	FART NO.	PART DESIGNATION	DESCRIPTION	REQD.
	47	5010- 09359-00	R 64	RESISTOR, C.F. 47KOHM 5% 1/4W.	ı
	48				
	49	5010+	R2, R21, R24	RESISTOR, C.F. 330 OHM 5% 1/4 W.	3
	50	5010-	R 56	RESISTOR, C. F.	l.
(A)	51	5043-	C89, C93	CAPACITOR, AXIAL 22 PFD. 1K V. ±10%	2
Ŭ	52	5043-	C88	CAPACITOR, AXIAL	1
	53	5040- 09545-00	C84	CAPACITOR, AXIAL 22 MFD. 10 V. ± 20 %	1
A	54	5043-	C94 THRU C97	CAPACITOR, AXIAL 410 PFD. 50 V.XTR ±20%	4
	. 55	5043-	SEE NOTE #3	CAPACITOR, AXIAL	85
	56	5040-	CBI, CB2, CB3	CAPACITOR, RADIAL	3
	57	09421-00 5075-	ZR2	100 MFD. 25 V. +50 -10%	1
		5075-		3.9 V. ZENER DIODE	
	58	09018-00 5070-	ZR1 D1, D2, D3, D4, D5	G.8 V. ZENER DIODE	
	59	5070-	D6, D7, D8	DIODE, SILICON	8
	60	09266-00	D9	DIODE, SILICON 2N4401, TO -92	
	61	5160-	Q5, Q6, Q7, Q8, Q4,Q10,Q11,Q13	TRANSISTOR, NPN	
	62	5190-	Q1, Q2, Q3, Q4, Q12	2N4403, TO-92 TRANSISTOR, PNP	5
	63	5520 - 09495 -00	CRI	12 MHZ CRYSTAL	
	64				
	65	5880- 09022-00	B1, B2, B3	BATTERY ALKALINE 1-5 V. (AA)	3
	66	5881- 09021-00	_	BATTERY HOLDER #171	,
	67	5700 - 09628 - 00	_	14 - PIN IC SOCKET	٥
	68	5700 - 09006 - 00	_	IG-PIN IC SOCKET	24
	69	5700-	_	24-PIN IC SOCKET	2
	70	5700 - 08985-00		40-PIN IC SOCKET	1
	71	5791-	1J5	20 PIN RIBBON CABLE HEADER	1
	72	5791-	1J4	40 PIN RIBBON	-
	73	5791	1J2	4 PIN HEADER 09-65-1041	-
	L	09028-00	102		
	74	5791- 09497 - 00	113	7 PIN HEADER 09-65-1071	
	75	5791- 09027-00	171	9 PIN HEADER 09-65-1091	
	76	5019- 09669-00	SRI	RESISTOR, IK OHM	_ '
	77	5010 - 09534 - 00	W1, W2, W3	RESISTOR, C.F.	3
©		5340- 09689-00	16	SII4 IKX4 CMOS STATIC RAM	1
©	78	5340 - 09667 - 00	10	6514 IK X 4 CMOS STATIC RAM	•
Ì		5281-09483-00 5280-09425-00		7415189 16 X 4 RAM	0
₿	79	5282-09716-00 5281-09715-00	1B, 2B	745189 16 x 4 RAM 74L5289 16 x 4 RAM	0 2
		5282-09717-00		745289 16X4 RAM	0
l	80	09371-00	SWI	SPST PUSH BUTTON SW.	
		09312-00		DPDT MOM.	
00	81	HW00030-9		WIRE, 30 AWG WHITE	
)@[82	HW00030-2		WIRE, 30 AWG RED	
0	83				
00[84	5700 - 09813 - 00		14 PIN IC SOCKET	,
O (1

NOTES:

1. 4116: 1K, 1L, 1M, 1N, 10, 1P, 1Q, 1R, 2K, 2L, 2M, 2N, 2O, 2P, 2Q, 2R, 3K, 3L, 3M, 3N, 3O, 3P, 3Q, 3R

2. 41K A RESISTOR:

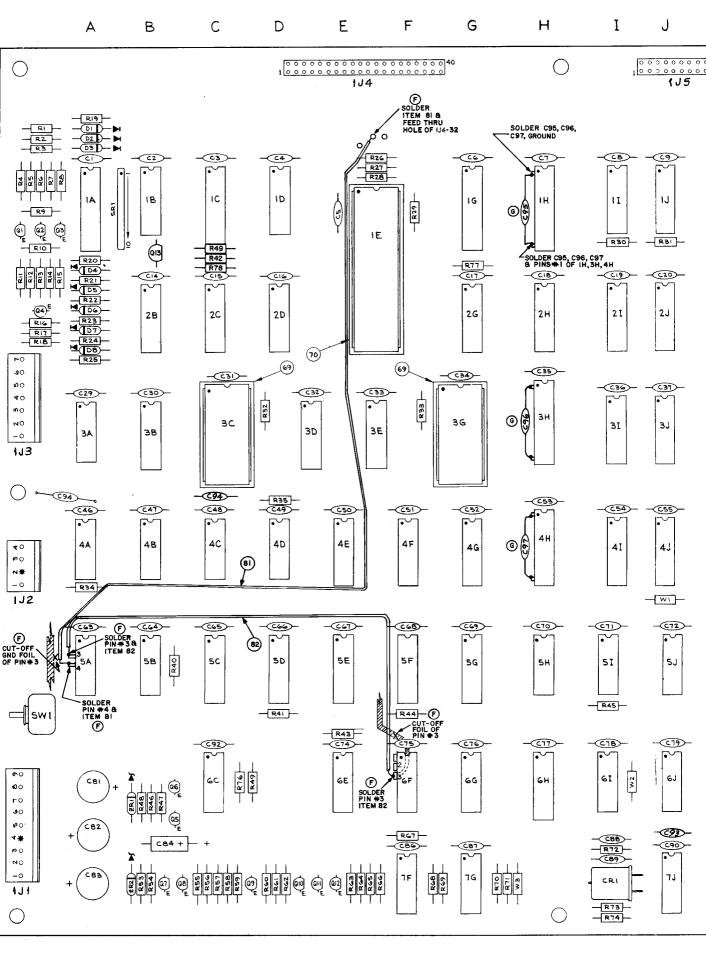
R26, R27, R28, R29, R32, R33, R35,
R36, R37, R38, R39, R41, R43, R45,
R50, R51, R52, R66 R67 R68, R69,
R70, R71, R15, R34, R16 R77

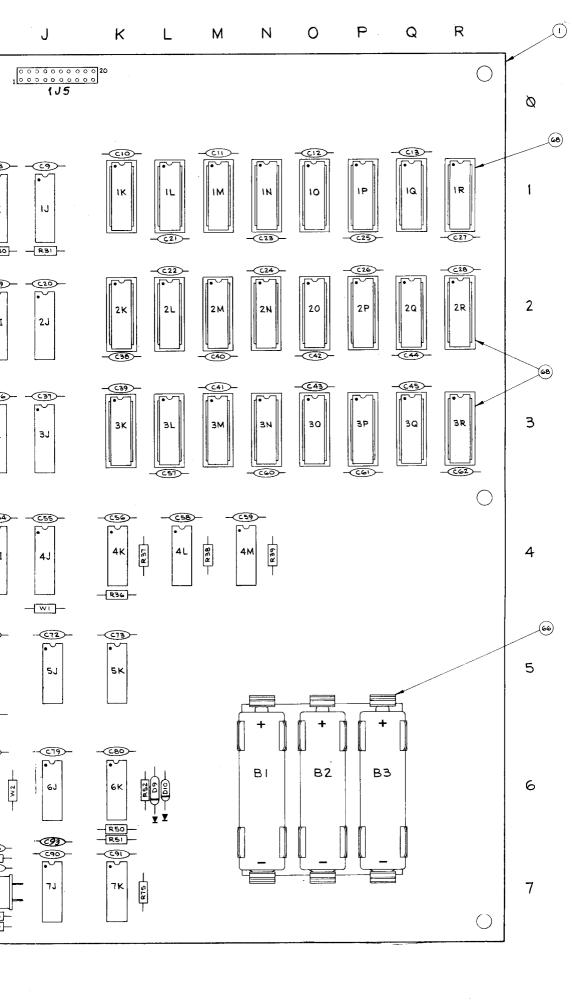
3. <u>IMFD. CAPACITORS:</u>
C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C24, C21, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C40, C41, C42, C43, C44, C45, C46, C47, C48, C49, C50, C51, C52, C53, C54, C55, C56, C57, C58, C59, C60, C61, C62, C63, C64, C65, C66, C67, C68, C69, C10, C71, C72, C73, C74, C75, C76, C77, C78, C79, C80, C65, C66, C67, C68, C67, C68, C67, C78, C69, C79, C78, C78, C79, C79, C79, C79, C79, C79

4. FOR SCHEMATIC --- TR TO 16-8809

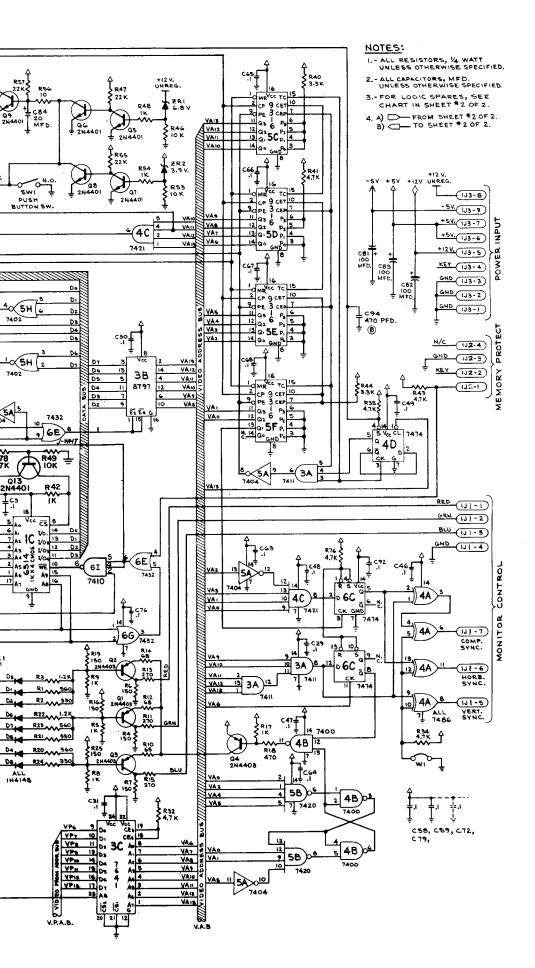
BILL OF MATERIAL							
ITEM	PART NO.	PART DESIGNATION	DESCRIPTION	REQ'D.			
1	5770 - 09656 - 00		BARE P.C. BOARD	. 1			
2	5280- 09073-00	4B	7400 QUAD 2-INPUT NAND	ı			
3	5280-	5 H	7402 QUAD 2-INPUT NOR	ı			
4	08948-00 5281-	7,3	74LS 04	ı			
5	09215-00 5280-	5A,5K	HEX. INVERTER	2			
6	09013-00 5280-	6F	HEX. INVERTER	-			
	08973-00 5280-		QUAD AND				
7	09011-00	4L, 4M, 6I	TRIPLE 3-INPUT NAND	3			
8	5280- 09475-00	3A, 6J	TRIPLE 3-INPUT AND	2			
9	5280- 09530-00	58	7420 DUAL 4-INPUT NAND	ı			
. 10	5280- 09476-00	4 C	7421 DUAL 4-INPUT AND	1			
11	5280 - 09477 - 00	6E,6G	7432 QUAD Z-INPUT OR	2			
12	5280 - 09478-00	4D, 4K, 6K 6C, 7F, 7G	7474 DUAL - D TYPE FLIP - FLOP	6			
13	5280 - 09479 - 00	4A,5J	7486 QUAD 2-INPUT EX-OR	2			
14	5281-	7K	74LS107 DUAL J-K FLIP-FLOP	1			
15	5281- 09532-00	5 G	74LS133	t			
16	5281-	4G, 6H	74LS139 DUAL 2 to 4 LINE DECODER	. 5			
17	5280-	3D, 3E, 4E, 4F	74153	4			
18	5280-	1I, 1J, 2I, 2J 3I, 3J, 4I, 4J	DUAL 4 to 1 DATA INVERT	8			
	09668-00	31, 31, 41, 41	8-BIT SHIFT REGISTER				
19	5281		74L5245				
20	09308-00	16	OCTAL BUSTRANSCEIVER	1			
21	5281- 09485-00	2c, 2H	QUAD DATA MULPX.	2			
22	5370 - 08989 - 00	1D, 2D, 2G, 3B	8T97 HEX. TS BUFFER	0			
	5281· 09385-00	29, 36	74LS367 HEX BUS DRIVER	4			
23	5281- 09486-00	1A, 1H, 3H,4H	74LS374 OCTAL D-TYPE FLIP-FLOP	4			
24	A-5342- 09695	36	UNIVERSAL VERT. DECODER ROMS	ì			
25	A-5342- 09694	3 G	UNIVERSAL HORE. DECODER ROM 4	1			
26	B-9072	6D	CMOS MOD. ASSY BOARD	1			
27	5281- 09533-00	51	74L5393 DUAL 4-BIT BIN.COUNTER	1			
28	5340 - 09488-00	SEE NOTE #1	4116 (450 ns ACCESS) 16 K x I DYNAMIC RAM	24			
29	5070-	, DIO	144001 DIODE	1			
30	06258-00 5280-	5C, 5D, 5E, 5F	9316	4			
	09489-00 5400-		4-BIT BIN. COUNTER				
m .	09490-00 5010-	IE.	MICROPROCESSOR RESISTOR, C.F.				
32	09548-00	RIO, RIZ, RI4	68 OHM 2 % 1/4 W.	3			
33	09036-00	R65 R4, R6, R7,	100 OHM 5% 1/4 W. RESISTOR, C.F.				
34	09187-00	RIG, RI9, R25	150 OHM 5% 1/4W.	<u>ه</u> 			
35	5010-	RII, RI3, RI5	RESISTOR, C.F. 210 OHM 2% 1/4W.	3			
36	5010-	R18	RESISTOR, C.F. 470 OHM 5% 1/4 W.	- 1			
37	5010 - 08992 - 00	R1, R20, R23	RESISTOR, C.F. 560 OHM 5% 14W.	3			
38	5010 - 09358 - 00	R42, R5, R9, R17, R8, R48, R54, R74	RESISTOR, C.F.	8			
39	5010-	R3, R22	RESISTOR, C.F. 1.2 K OHM 5% 1/4 W.	2			
40	5010 - 0 8998 - 00	R59, R72, R73	RESISTOR, C.F. 2.2 K OHM 5% 1/4 W.	3			
41	5010-	R60, R63	RESISTOR, C.F. 2.7 K OHM 5% /4W.	2			
42	5010-	R30, R31	RESISTOR, C.F. 3.3KOHM 5% 4W.	5			
43	5010-	\$40,844,858 SEE NOTE #2	RESISTOR, C.F.	28			
44	5010-	R49, R46, R53	4.7K OHM 5% /4W.				
	5010-	R47, R55,	IOK OHM 5% 1/4 W. RESISTOR, C.F.	4			
45	5010-	R57, R62	22K OHM 5% 1/4W. RESISTOR, C.F.				
46	09113-00	R G I	33K OHM 5% 1/4 W.				

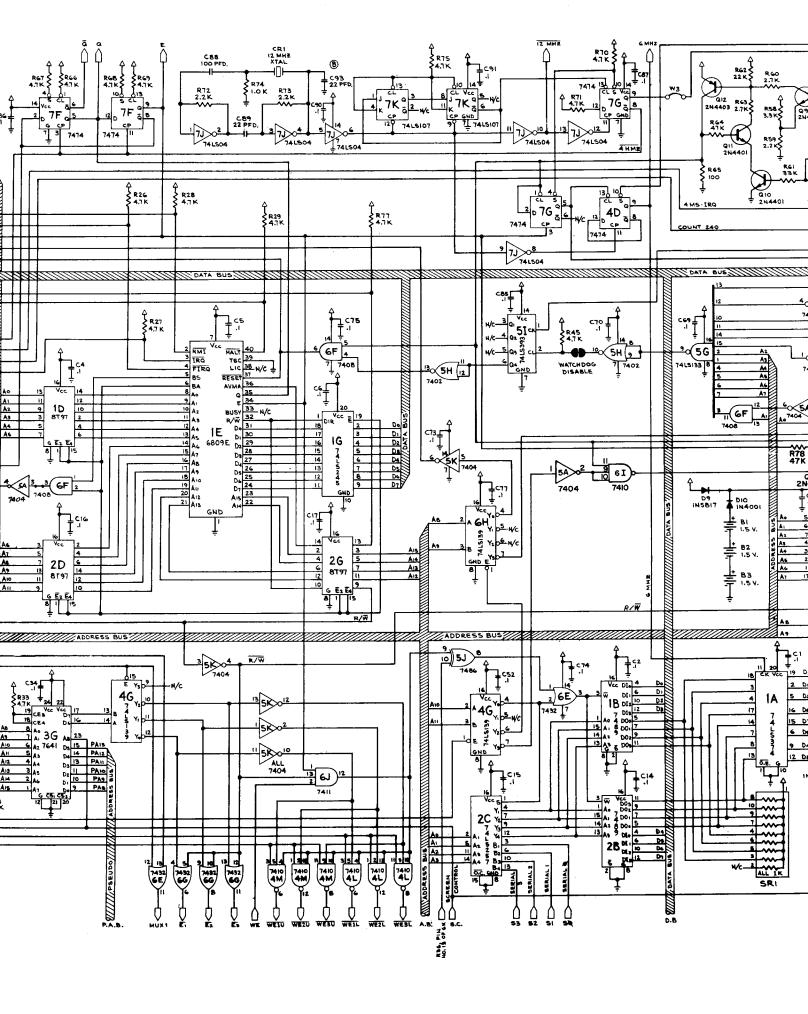
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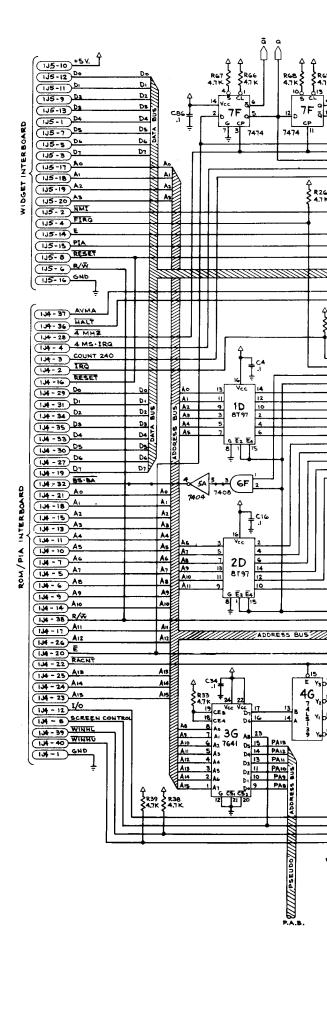


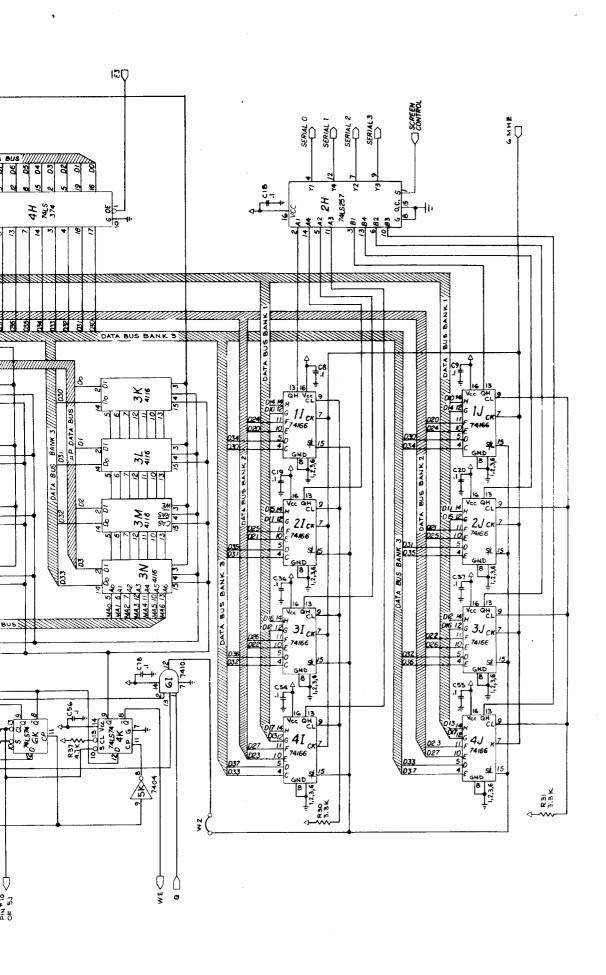


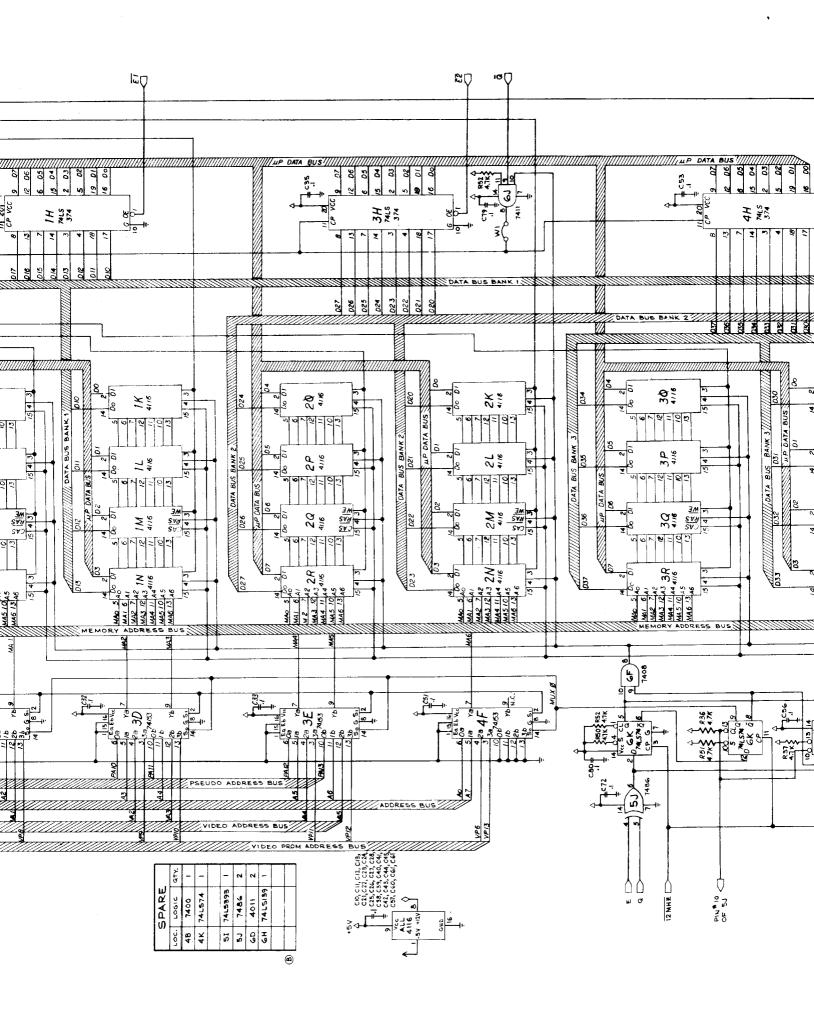
R-8731 CPU Board Assembly Drawing

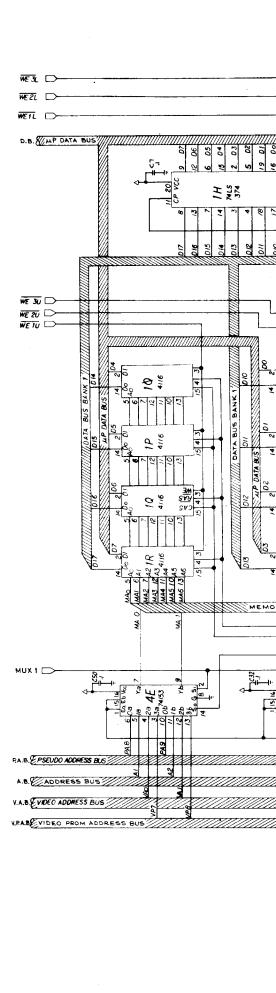


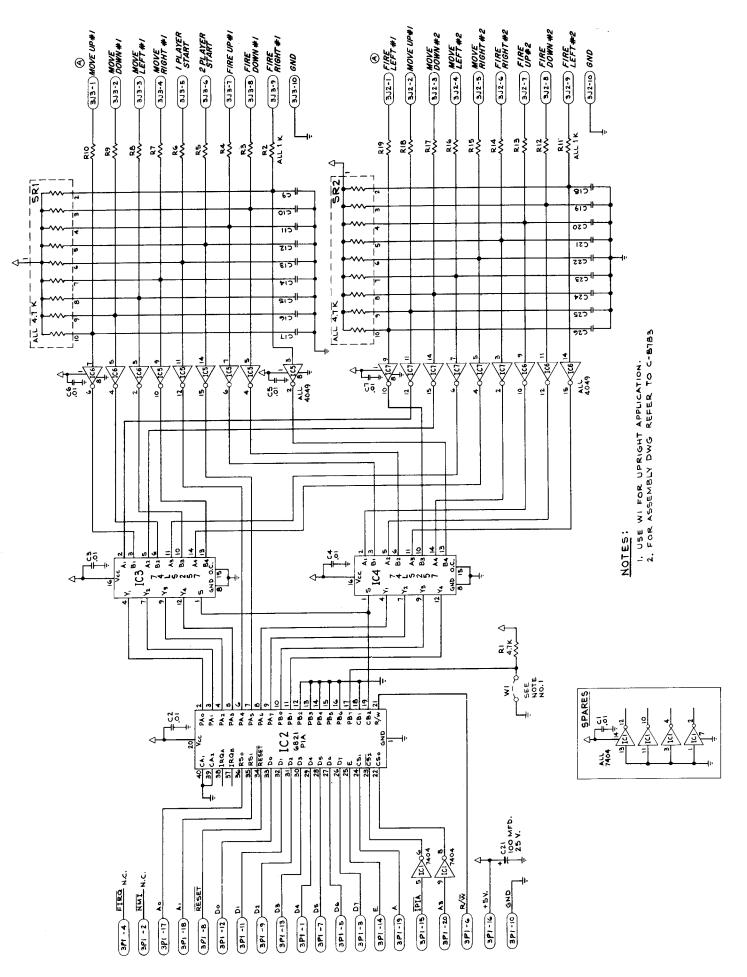






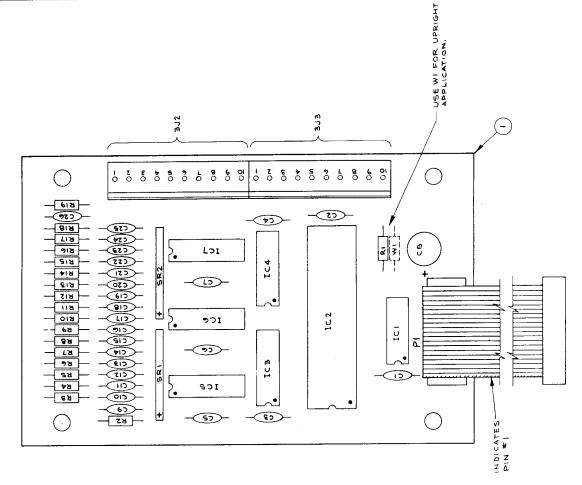






C-8783 Interface Board Assembly and Logic Diagram

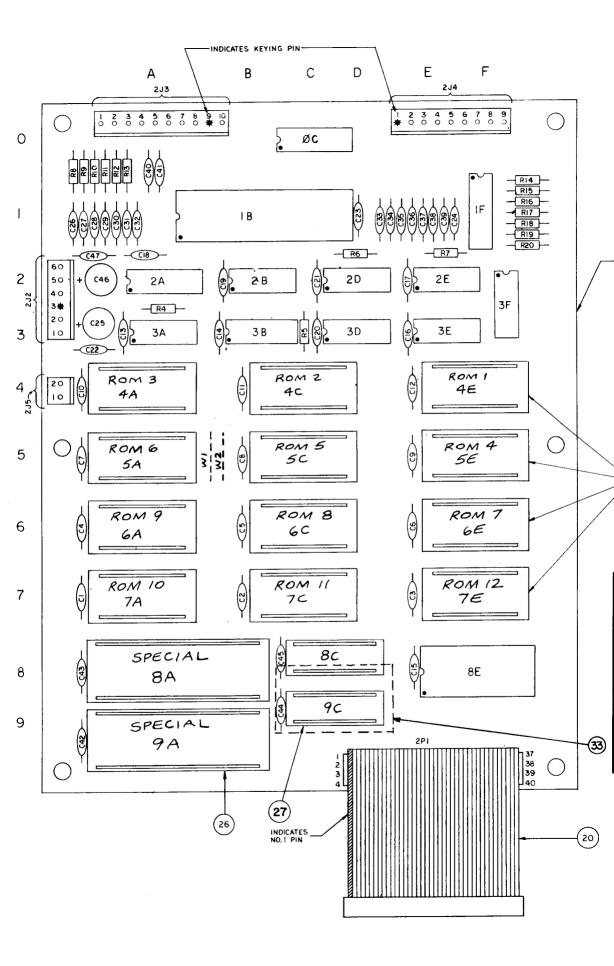
	NO.	-	-	61	-	2	2	8	1	-	81	1	۲	-	7
FERIAL	DESCRIPTION	BARE P.C. BOARD	6821 PIA	CMOS HEX INVERTOR	7404 HEX INVERTER	7415257 QUAD DATA MULTIPLEXER	4.7K OHM 9 RES. 10 PIN SIP	RESISTOR, C.F. IK OHM 5% 14 WATT	RESISTOR, C.F.	RESISTOR, C.F.	CAPACITOR, CERAMIC DISC. 410 PFD. 50 V. XTR ±20%	CAPACITOR, ELECT, RADIAL 100 MFD. 25 VOLT, +50-10%	CAPACITOR, CERAMIC DISC,	20 PIN RIBBON CABLE ASS'Y.	10 PIN HEADER 09-65-1101
BILL OF MATERIAL	PART DESIGNATION		IC2	105, 106, 107	ICI	103,104	SRI, SR2	R2 THRU R19	RI	1.74	C9 THRU C26	8 0	CI THRU CT	ď	312, 313
BILL	PART NO.	5172- 09 68 0-00	5430-	5310 - 08975 - 00	5280- 09013-00	5281-	5019-	5010-	5010-	5010 -	5043-	5040-	5043 - 08980 - 00	5195- 09540-00	5791-09444-00
	TEM NO.	-	7	m	4	'n	J	7	gO.	6	ō	Ξ	12	ū	4

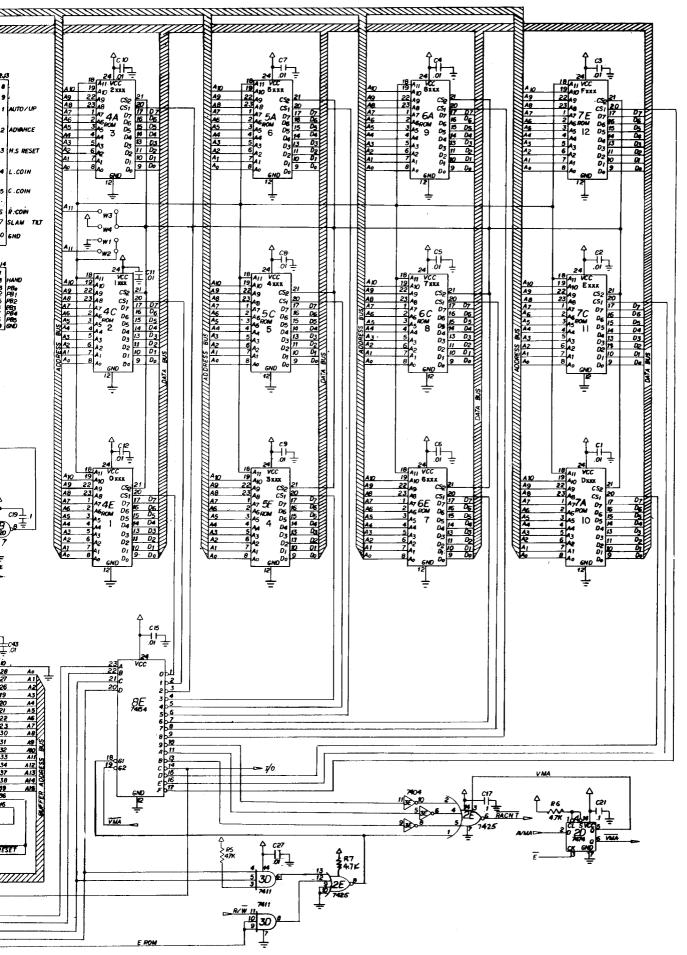


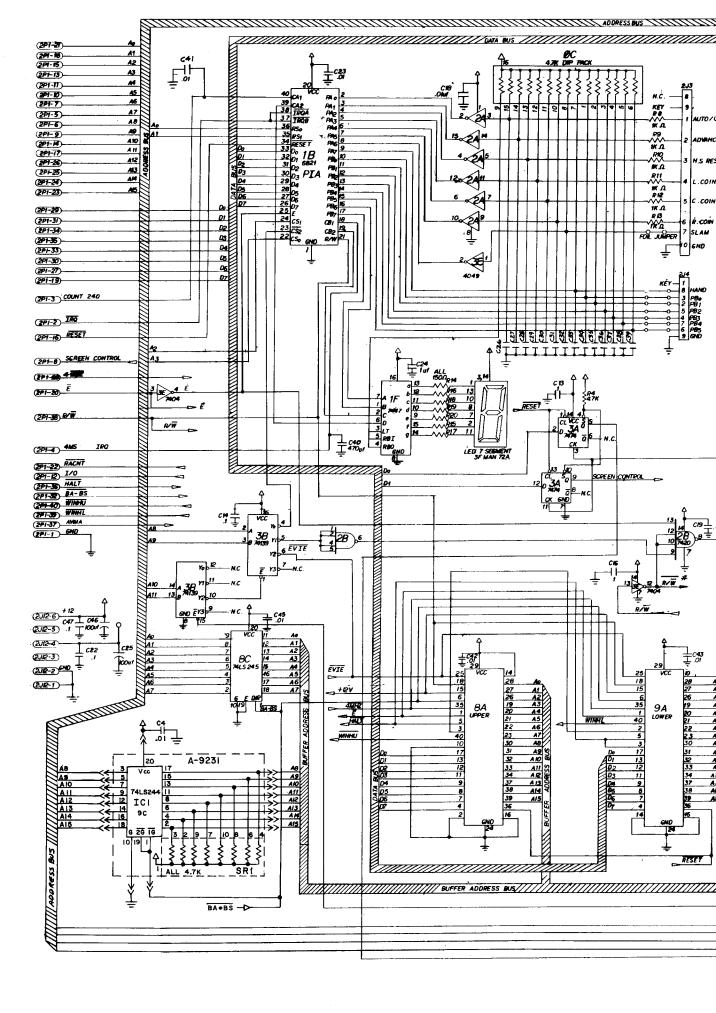
			·	
	E	ILL OF	MATERIALS	
ITEM NO.	PART NO.	PART DESIGNATION	DESCRIPTION	REC'D NO
ı	5771 - 09840-00		BARE P.C. BOARD	!
2	5280- 09407-00	1F	7447BCD TO 7SEG LED DISPLAY	À
3	5280 - 09478 - 00	2D,3A	7474 DUAL-D TYPE FLIP-FLOP	2
4	5281 - 09246 - 00	3B	74LSI39 DUAL 2 TO 4 LINE DECODER	ı
5	5280- 09530-00	28	7420 DUAL 4-INPUT NAND	1
6	5280 - 09475 - 00	3D	7411 TRIPLE 3 INPUT AND	1
7	5280 - 09013 - 00	3E	7404 HEX INVERTERS	1
8	5280- 09551-00	2E	DUAL 4 INPUT 7425 NOR GATE WITH STROBE	l
9	5280 - 09010 - 00	8E	74154 4 TO 16 LINE DEC. / DEMULT.	1
10	5430 - 08972-00	IB	MC 6821 PIA	1
11	5019 · 09239 -00	φc	4.7K 15 RES 16 PIN DIP PACK	1
12	5010 - 09187 - 00	RI4 THRU R20	RESISTOR C.F. 150 OHM 5% 1/4 W	7
13	5010 - 08991-00	R4 THRU R7	RESISTOR C.F. 4.7K OHM 5% 1/4W	4
14	5671 - 09411-00	3F	MAN 72A 7SEG LED DISPLAY	1
15	5043 - 08980-00	C1-C21, C23, C24, C42-45	CAP, CERAMIC .OI MFD 50V +80-20%	27
16	5040 - 09421 -00	C25,C46	CAP ELEC 100 MFD. 25V RAD + 50% -10%	2
17	5043 - 08996 -00	C22,C47	CAP CERAMIC . MFD. 50V ± 20%	2
18	5043 - 09065 -00	C26 THRU C41	CAP CERAMIC 470 PFD. 50V AXIAL +/ -20%	16
19	5700- 09004-00		24-PIN I.C. SOCKET	12
20	5795 - 09611-00	2P1	40 PIN RIBBON CABLE ASS'Y 5"	1
21	5791 - 09038 - 00	2 J2	HEADER, 6 PIN, 09-65-1061	1
22	5791 - 09444 - 00	2J3	10 PIN MALE CONN 09-65-1101	1
23	5791- 09027-00	2J4	9 PIN CONN 09-65-1091	١
24	5310 - 08975	2A	4049 INVERTING HEX BUF.	1
25	5010 - 09358 -00	R8 THRU RI3	RESISTOR C.F. IK OHM 5% 1/4 W	6
26	5700- 08985-00		40 -PIN LC. SOCKET	2
27	5700 - 09498 - 00		20 - PIN IC SOCKET	2
28	D-9192		ROM/PIA BD. SUB-ASSEMBLY	1
29	SEE CHART	4 A THRU TE SEE CHART	GAME ROM ASSEMBLY	AS REQ'D
30	5010- 09534-00	WI THRU W4 SEE CHART	RESISTOR C.F. O OHM 1/4 WATT	AS REQ'[
31	5410- 09866-00	8A, 9A	FULL CUSTOM I.C.	2
32	5281- 09308-00	8C	I.C., 74LS245 OCTAL BUS/LINE DR/LINE RCVR	ı
	22200-00			⊢—

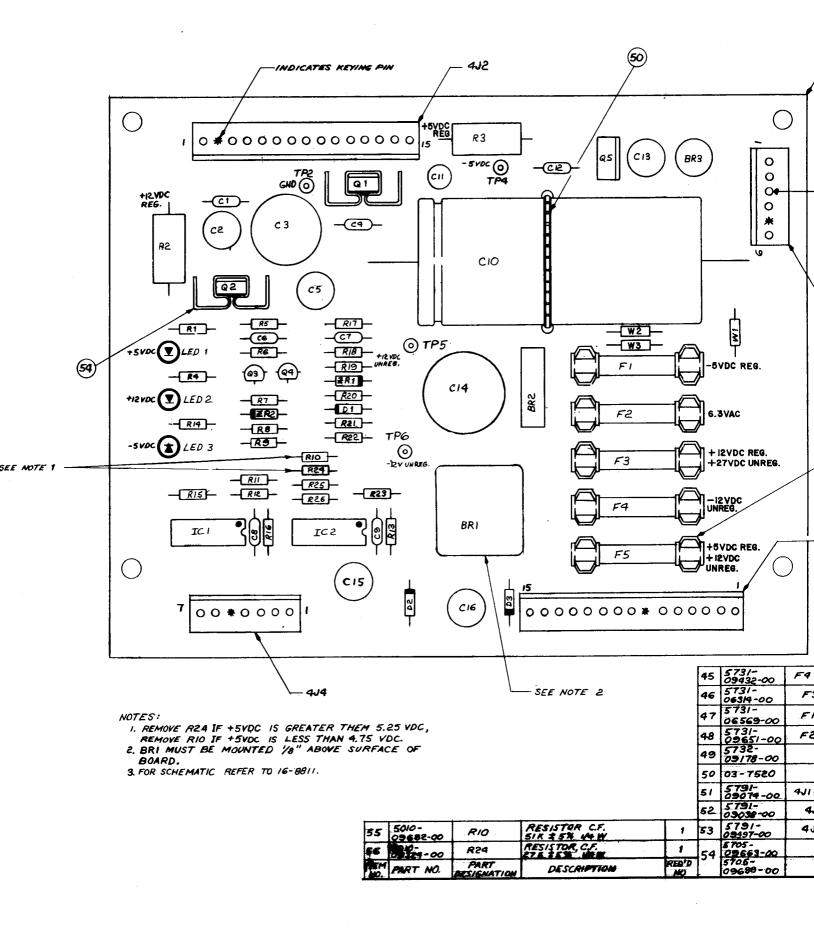
8	5280- 09551-00	2E	NOR GATE WITH STROBE
9	5280 - 09010 -00	8E	74154 4 TO 16 LINE DEC. / DEMULT.
10	5430 - 08972-00	IB	MC 6821 PIA
11	5019 · 09239 · 00	фC	4.7K 15 RES 16 PIN DIP PACK
12	5010 - 09187 -00	RI4 THRU R20	RESISTOR C.F. 150 OHM 5% 1/4 W
13	5010 - 08991-00	R4 THRU R7	RESISTOR C.F. 4.7K OHM 5% 1/4W
14	5671 - 09411-00	3F	MAN 72A 7SEG LED DISPLAY
15 -	5043 - 08980-00	C1-C21, C23, C24, C42-45	CAP, CERAMIC .01 MFD 50V +80-20%
16	5040 - 09421 -00	C25,C46	CAP ELEC 100 MFD. 25V RAD + 50% -10%
17	5043 - 08996 -00	C22,C47	CAP CERAMIC .I MFD. 50V ± 20%
18	5043 - 09065 -00	C26 THRU C41	CAP CERAMIC 470 PFD. 50V AXIAL +/ -20%
19	5700- 09004-00		24-PIN I.C. SOCKET
20	5795 - 09611-00	2P1	40 PIN RIBBON CABLE ASS'Y 5'
21	5791 - 09038 - 00	2 J2	HEADER, 6 PIN, 09-65-1061
22	5791 - 09444 - 00	2J3	IO PIN MALE CONN 09-65-1101
23	5791 - 09027-00	2J4	9 PIN CONN 09-65-1091
24	5310 - 08975	2A	4049 INVERTING HEX BUF
25	5010 - 09358 -00	R8 THRU RI3	RESISTOR C.F. IK OHM 5% 1/4 W
26	5700- 08985-00		40 -PIN LC. SOCKET
27	5700 - 09498 - 00		20 - PIN IC SOCKET
28	D-9192		ROM/PIA BD. SUB-ASSEMBLY
29	SEE CHART	4A THRU7E SEE CHART	GAME ROM ASSEMBLY
30	5010- 09534-00	WI THRU W4 SEE CHART	RESISTOR C.F. O OHM 1/4 WATT
31	5410- 09866-00	8A, 9A	FULL CUSTOM I.C.
32	5281- 09308-00	8C	I.C., 74LS245 OCTAL BUS/LINE DR/LINE RCVF
		T	-

- 1	GAME NAME	ROBOTRON	
_	ASSEM. NO.		
	4E	A-5343-09898	
	4C	A-5343-09899	
z	4 A	A-5343-09900	
DESIGNATION	5E	A-5343-09901	2
IA	5C	A-5343-09902	NUMBER
10	5 A	A-5343-09903	2
ES	6E	A-5343-09904	Z
۵	6C	A-5343-09905	
F.	6 A	A-5343-09906	PART
PART	7A	A-5343-09907	۵
	7C	A-5343-09908	
•	, 7E	A-5343-09909	
	JUMPER	W1, W3	

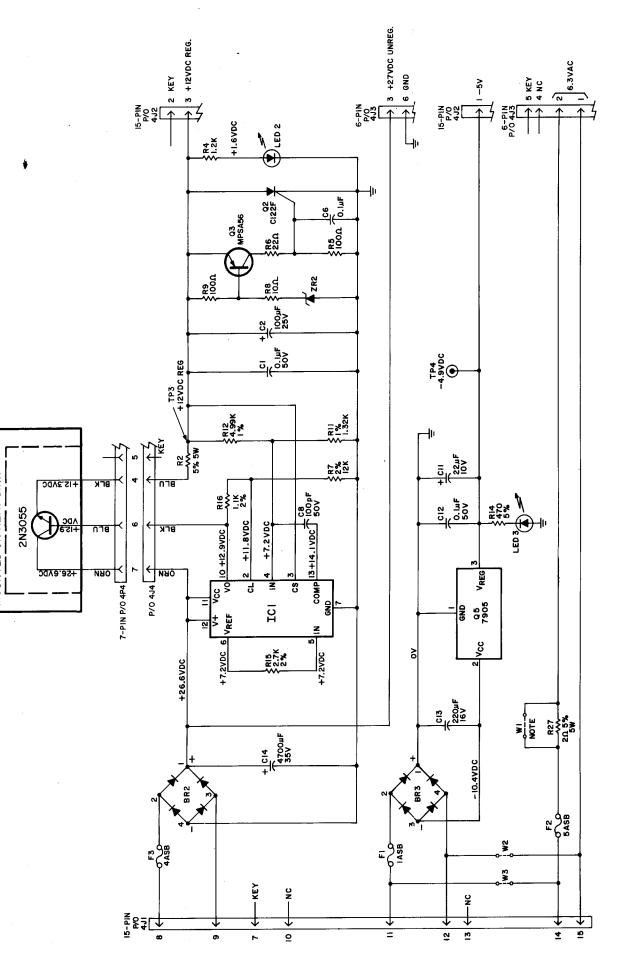


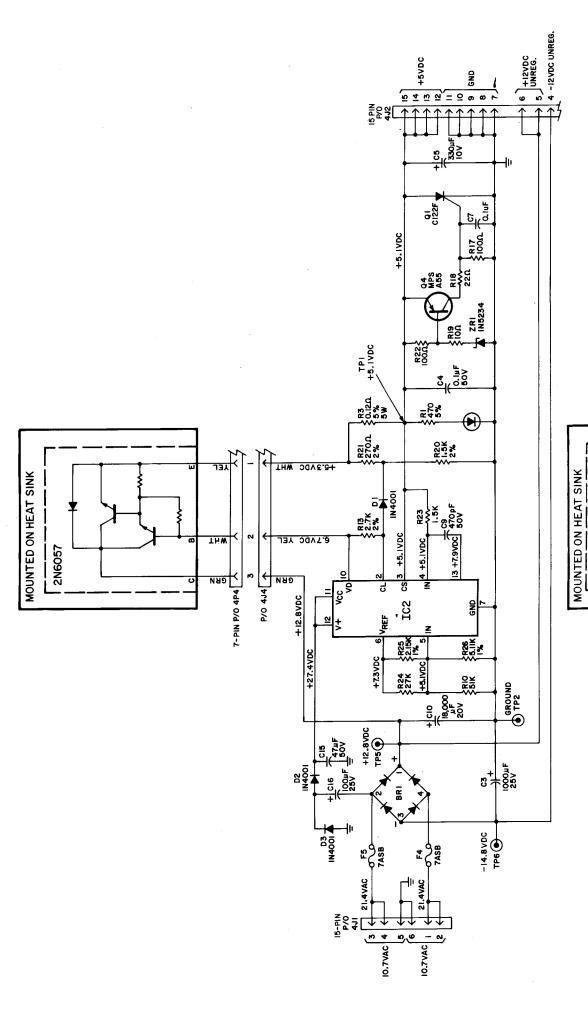


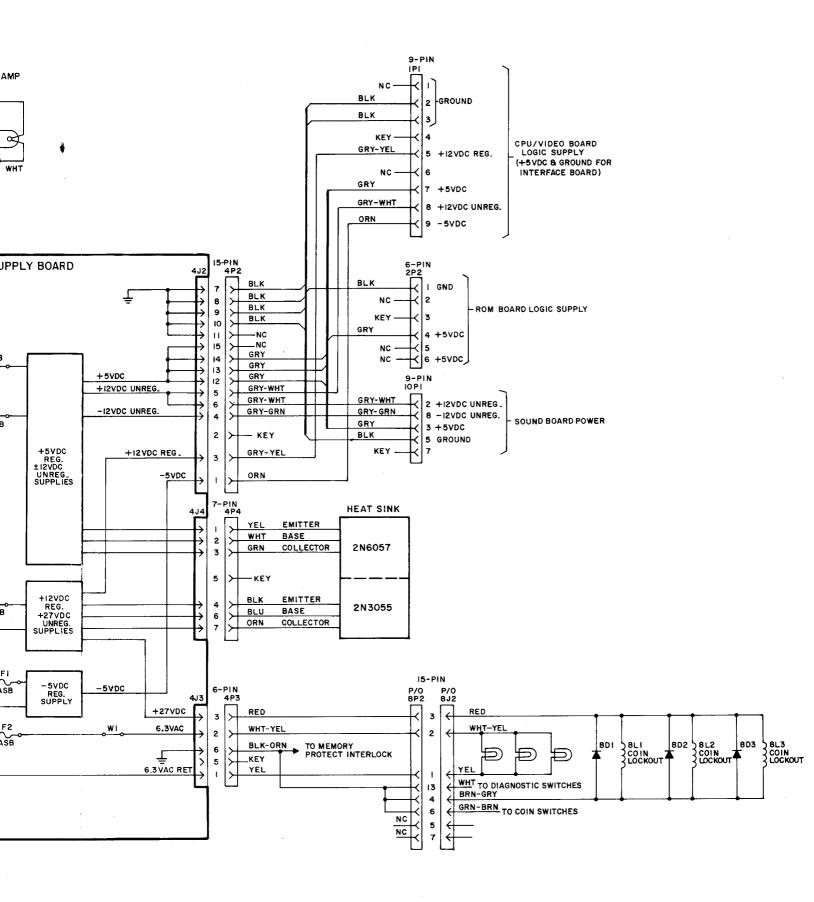


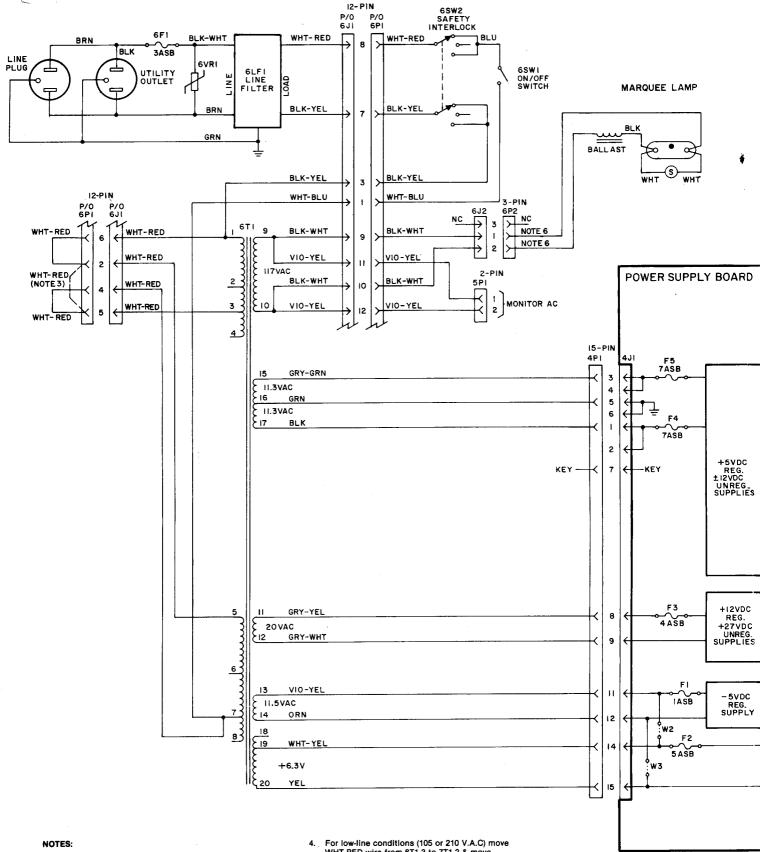


			. [Br	LL OF N	MATERIAL	
				EM	PART NO.	PART DESIGNATION	DESCRIPTION	REGID NO.
			F	,	5773 - 09679-00		BARE P.C. BOARD	1
	.=		l a	2	5010- 09085-00	Res	RESISTOR,	1
	\bigcirc			•	5010-	R13, R15	RESISTOR, 2.7K 2%, 1/4W	2
	\mathcal{I}		<u> </u>	1	5010-	R2I	RESISTOR,	1
	-		 	-	09508-00 5010-	R20	RESISTOR,	1
	\		<u></u> ⊢		09428-00 5010-	RI6	I.5K 2%, V4W RESISTOR,	
	7		<u> </u>	,	09509-00 5010-	R7	RESISTOR,	1
n -	,		 	2	09510-00 5010 -	R4	RESISTOR,	
			⊢	2	09314 -00 5010 -	RI, RI4	RESISTOR	г
0	127	YDC UNREG.	 	_	09416-00 5013-	·	RESISTOR,	1
	1	YDC UNKES.	⊢		5013 - 0 95 42 -0 0 501 3 -	RII	7.32 K 1%, 1/4 W RESISTOR,	1
*				4	09427-00 5013-	RIZ	4.99K 1%, 1/4W RESISTOR,	
0	1			۷	09426-00 5012-	R25	Z.ISK 1%, 1/4 W	
9			 	-1	09429-00 5012-	RS	.IQ.A. 5%, 5W RESISTOR,	1
	1		1		09512-00	R2	.27.2 5% 5W	├
		₩3		5	50/3-	000	RESISTOR	
		1 0-3	<u> </u>	_	09665 -00	R26	RESISTOR, 14 W. RESISTOR, C.A.	1
			<u> </u>	- 1	0 9434-00 5010-	RG, RIB	RESISTOR, C.F.	2
			1/6	0]	09036-00	R5, R9, R17 & REZ	100 A ± 5% 1/4 W	4
REG.			13	_	5010- 09039-00	R8, R19	RESISTOR, C.F.	s
			2	9	03304. 00	W/	RESISTOR,	/
				· '	5043- 08996-00	C6,C7	CERAMIC +80% -20% SOV	2
			la		5040- 09421-00	C2,C16	CAPACITOR, 100 MFD, 25 V RADIAL +50% -10%	2
				. 3	5040- 09422-00	C15	CAPACITOR 47 MFD,504 RADIAL +50% -10%	1
REG. UNREG.	49		[2	4	5040- 09420-00	СЭ	CAPACITOR, 1000 MFD. 25 V RADIAL +75% -10%	1
			2	5	5040 - 09419-00	CIO	CAPACITOR, 18,000MFD 20V AXIAL +75% -10%	1
					5040 - 094 2 3-00	<i>c</i> 5	CAPACITOR, 330 MFD 10V RADIAL +50%-10%	1
					5040 - 0 9 5 04 - 00	C14	CAPACITOR 4700MFD 35V RADIAL +50% -10%	7
		a 14	2	8	5043- 09446-00	C1, C4 & C12	CAPACITOR . IMFO 50V AXIAL ESU - EQ + 80%	3
REG.		4J1	2	9	5043- 0 5065-00	c9	CAPACITOR 470PFD 50V AXIAL X7R ± 10%	1
/()		T.	$\overline{}$	5043- 0 9492-0 0		CAPACITOR 100 PFP 50V AXIAL SZL ± 5 %	1
			3		5040- 09506-00		CAPACITOR 220MFD IEV RADIAL +50%-10%	,
			3	2	5040-	CII	CAPACITOR 22 MFD 10 V RADIAL +50% -10%	1
			3	: o	5070-	Q1,D2 £ 03	DIODE,	3
•			<u> </u>	a	5075-	ZRI	IN4001 ZENER, IN5234 ± 5% (6.2V)	1
				_	09406-00 5075-	₽R2	ZENER IN524 \$ 5% (8V)	1
7- 32-00	F9 \$ F5	FUSE, 74,5.8	2 II	_	09662-00 5190-	Q3,Q4	TRANSISTOR,	2
11- 14-00	F3	FUSE, 4A, S.B., 250V	7 1	7	09430-00 5/30-	01,02	SCR 8 AMP,	2
69-00	FI	FUSE, 1A, S.B. 250Y	, II		09661-00 5250- 09515-00	Q 5	VOLTAGE REGULATOR,	,
3/-	F2	FUSE, SA, S.B. 250V		٦	5460-	ICI, IC2	7905 YOLTAGE REGULATOR,	z
51-00 2- 78-00		FUSE HOLDER,			09424-00 5/00-	BRI	723 BRIDGE RECTIFIER,	
7520	<u> </u>	TIE WRAP	- I		09690-00 5100-		BRIDGE RECTIFIER,	
91- 74-00	411 \$ 412	HEADER, 15 PIN 09-65-ISI	٠ ٩	-	09513-00 5100-	BRE	4.0A, 50V BRIDGE RECTIFIER,	-
11- 38-00	4J3	HEADER, GPIN		ح ا	0954-00		1.04, 50 V	-
7/-	414	HEADER, T PIN	, 4		5671- 090/9-00 5824-	LEOT, LEOZ,LED 3	RED TERMINAL # /502-1	3
7-00		HEAT SINK	- 19		09248-00	TP1- TP6	(TEST POINT)	4
63-00	· · · · · · · · · · · · · · · · · · ·	HEAT SINK	0	3)				
88-00			<u> </u>					



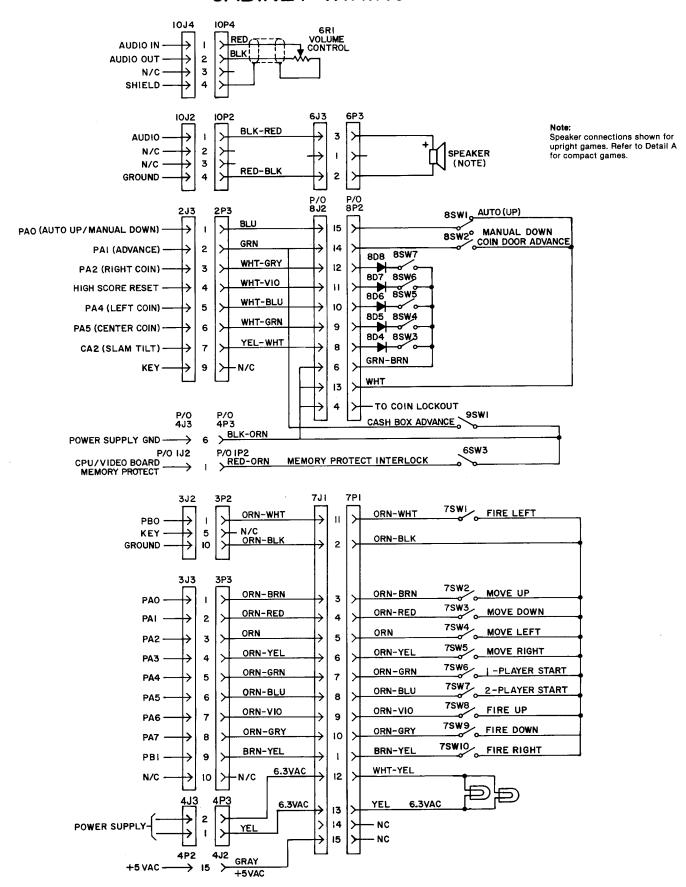




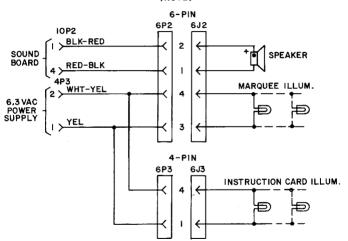


- For 105 or 115 V.A.C., 3A fuse & 130 V varistor 5017-09044 are used.
- For 210 or 235 V.A.C., 1A fuse & 275V varistor 5017-09063 are used.
- Jumper wires on 6PI shown with solid lines are connected for 117 V.A.C. operation. Only the one shown with a dashed line is connected for 220 V.A.C. operation.
- For low-line conditions (105 or 210 V.A.C) move WHT-RED wire from 6T1-3 to 7T1-2 & move WHT-RED & WHT-BLU wires from 7T1-7 to 7T1-6.
- For high line conditions (135 or 240 VAC) move WHT-RED wire from 7T1-3 to 7T1-4 and move WHT-RED & WHT-BLU wires from 7T2-7 to 7T2-8.
- On compact games marquee is illuminated with 6.3 V.A.C. bulbs and no 115 V.A.C. connections are routed through 6T2/6P2. Refer to Detail A on cabinet wiring diagram for compact game connections.

CABINET WIRING



DETAIL A - COMPACT GAMES



ITEM NO.	PART NO.	PART DESIGNATION	DESCRIPTION	REQID.
1 2 3 4 5 6 7 8 9	01-2 01-146-6 5370-09156-00 5280-09012-00 5280-09073-00 5280-08973 5310-09154-00 5310-08971-00 5250-09157-00 5430-08972-00	1C1 1C2 1C3 1C4 1C5 1C6 1C7 1C8	BARE P.C. BOARD REV F TDA 2002 V AUDIO AMPLIFIER 7442 BCD-DEC DECODER 7400 QUAD 2 INPUT NAND 7408 QUAD 2 INP. AND GATE 4050 BUFFER 4063 8 INPUT NAND GATE 4069 HEX INVERTER 7805 5 VOLT REG. W/TO 220 CASE 6821 P.I.A.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
11	5340-09003-00	IC11	6810 RAM	i
12	5371-09152-00	1013	1408 D/A CONVERTER	1 3
13 14	5160~08938-00	Q2, Q3, Q4	2N4401 NPN TRANSISTOR	ر
15 16	5075-09018-00	ZR1	IN5996A 6.8V ZENER DIODE	1
17	5100-09357-00)	BR1	MDA 200/3N253	1
18	5100-09158-00) 5520-09020-00	Y1	BRIDGE RECTIFIER 3.58 MHz CRYSTAL	0 1
19	5010-08991-00	R1,R18,R19,R21,R22, R27,R30,R31, R32	RESISTOR, FC, 4.7K OHM, 5% 1/4 WATT	9
20	5010-09036-00	R2 thru R10	RESISTOR, FC, 100 OHM, 5% 1/4W	9
21 22	5010-09358-00 5010-09181-00	R12,R15,R28,R36,R38 R14	RESISTOR, FC, 1K OHM, 5% 1/4W RESISTOR, FC, 1 OHM, 10% 1/2 WATT	5 1
23	5010-09161-00	R16	RESISTOR, FC, 2.2 OHM, 5% 1/4 WATT	i
24 25	5010-09361-00	R17	RESISTOR, FC, 220 OHM, 5% 1/2 WATT	1
26	5010-08983-00	R23, R24, R26 R25	RESISTOR, FC, 3.3K OHM, 5% 1/4 WATT RESISTOR, FC, 3.3M OHM, 5% 1/4 WATT	3 1
27 28	5010-09179-00 5010-09035-00	R29	RESISTOR, FC, 47K OHM, 5% 1/4 WATT	i
29	5010-09034-00	R33, R35, R37	RESISTOR, FC, 10K OHM, 5% 1/4 WATT	3
30	5010-09039-00	R34	RESISTOR, FC, 10 OHM, 5% 1/4 WATT	1 10
31 32	5043-08980-00 5043-09065-00	C1, C16 thru C23, C31 C2 thru C10	CAPACITOR, CER01 MFD. 50V. +80%, -20% CAPACITOR, CER. 470 PFD. 50V. +-20%	9
33	5043-09345-00	C11	CAPACITOR, CER001 MFD. +-20% 100V.	ĺ
34	5040-09365-00	C12, C30, C36	CAPACITOR, ELECT, 1 MFD, 63V, -10 +50%	3
35 36	5043-08996-00 5040-09165-00	C13, C24, C35 C14	CAPACITOR, CER1 MFD. 50V. +-20% CAPACITOR, ELECT. 1,000 MFD. 16V. +-20%	3 1
37	5040-09164-00	C15	CAPACITOR, ELECT. 470 MFD. 10V. +-20%	i
38	5040-08986-00	C25	CAPACITOR, ELECT. 100 MFD. 10V. +-20%	1
39	5040-08893-00	C26	CAPACITOR, ELECT. 1,000 MFD. 25V. +-20%	1
40 41	5040-09376-00 5043-09180-00	C27 C28	CAPACITOR, ELECT. 4700 MFD. 16V. +-20% CAPACITOR, CER. 47 PFD. 1K V. +-20%	i
42	5040-09343-00)	C29	CAPACITOR, ELECT. 10 MFD. 20V	1
43	5043-09169-00	C32, C33	CAPACITOR, CER. DISC, 27 PFD. 1KV. +-10%	2
44 45	5041-09163-00 5041-09031-00	C34 C37	CAPACITOR, TANTALUM 2.2 MFD. 15V. +-20% CAPACITOR, TANTALUM 1 MFD. 25V. +-20%	· 1
46	5641-09658-00)	SW1	MOMENTARY SWITCH SPDT	1
47	5645-09330-00	DS1	2 STD, DIP SWITCH	1 2
48 49	5731-06314-00 5732-09178-00	F1, F2	4 AMP SLOW BLOW FUSE FUSEHOLDER	4
50	5705-09172-00		HEAT SINK THERMALLOY #6072B	1
51	5705-09173-00		HEAT SINK THERMALLOY #6071B	1
52 53	5705-09199-00 5700-09004-00		HEAT SINK THERMALLOY #6030 24 PIN SOCKET	1
54	5700-09004-00		40 PIN SOCKET	i
55	5791-09027-00	10J1, 10J3	9 PIN MALE CONNECTOR 09-65-1091	2
56	5791-09028-00	10J2, 10J4	4 PIN MALE CONNECTOR 09-65-1041	2
57 58	4006-01003-06		6-32x3/8" P-PH-S	3
59	4406-01117-00		6-32 HEX NUT	3
60	5010-09534-00	TO 1 TUD TO 1	O OHM RESISTOR	A/R
61 62	5824-09248-00 5010-09363-00	TP1 THR TP4 R11	TERMINAL #1502-1 RESISTOR, FC, 5.6K OHM 5% 1/4 WATT	4 1
63	2010-03202-00	13.1.1	ALDIDION, 10, 2:00 OHE 20 1/4 MAIL	,
64	5019-09362-00	SR1	RESISTOR, 4.7K OHM 10 PIN SIP	1
65	03-7520-1		TIE WRAP #6 EXT. LOCKWASHER	1 3
66 67	4703-00007-00 20-9229		#6 EXI. LUCKWASHER THERMAL COMPOUND	.01

NOTES:
1. USE THERMAL COMPOUND BETWEEN IC1 AND IC8, AND HEAT SINKS.

- 2. CAUTION: AVOID STATIC DISCHARGE DAMAGE TO MOS LOGIC.
- 3. SYMBOLS SHOWN ON COMPONENTS ARE FOR REFERENCE ONLY.

DO NOT SCREEN OR STAMP.

4. OBSERVE INDEX MARK OF ALL INTEGRATED CIRCUITS;

DIODES D1, D2, AND ZR1;

CAPACITORS C12, C14, C15, C25, C26, C27;

CONNECTORS 10J1, 10J2, 10J4, 10J3, 10J5;

POSITION OF TRANSISTORS Q1, Q2, Q3, Q4.

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5. JUMPERS
                              W2)
W6)
W9) OUT
W11)
W12)
W13)
          W3)
W4)
W5) IN
W10)
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