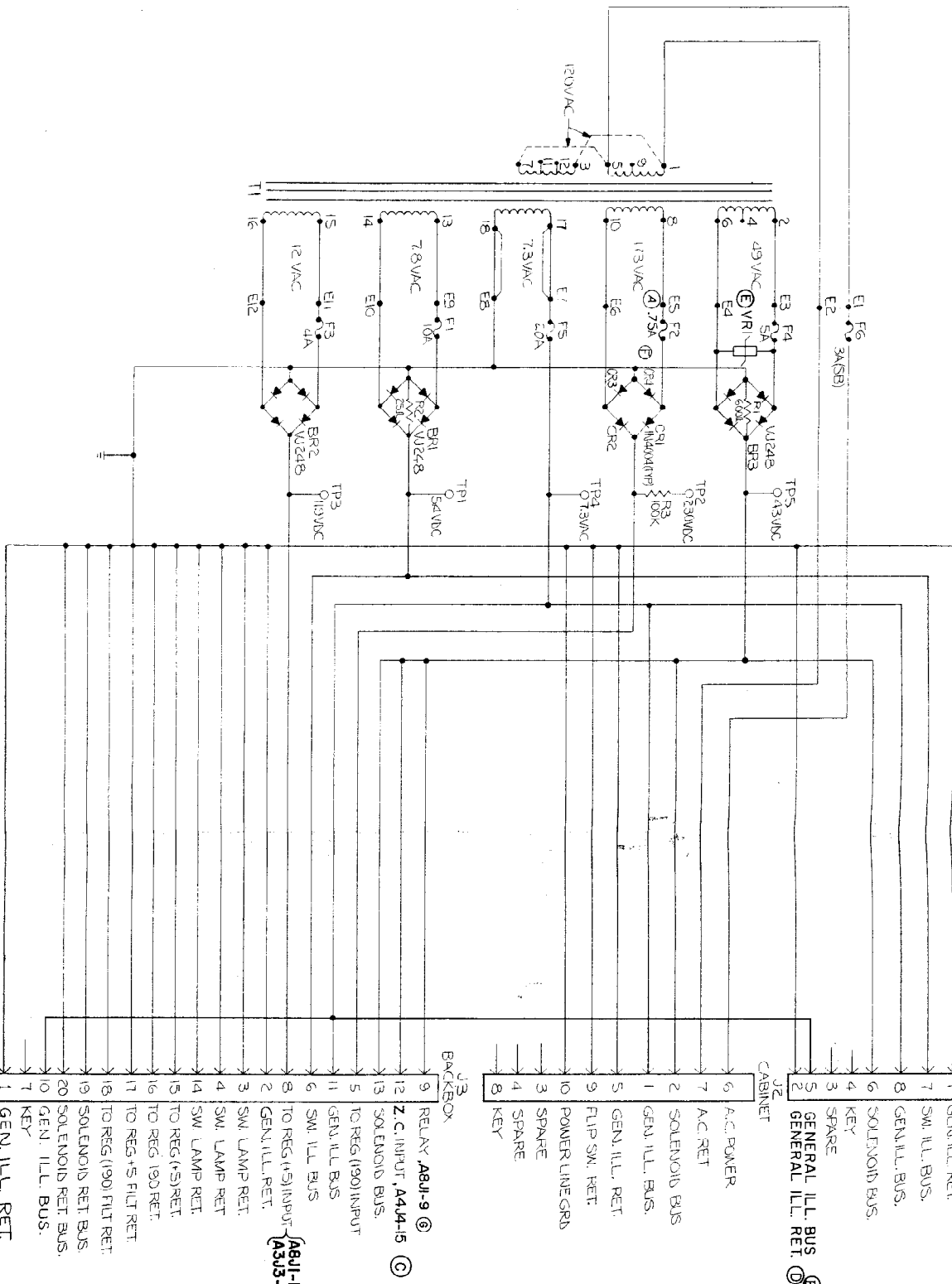


TRANSFORMER ASSEMBLY A2



- NOTES:
- WIRE A.C. POWER AND TERMINALS PER TABLE 1.
 - VOLTAGES SHOWN ARE FOR GAME IN POWER-UP CONDITION.
 - PREFIX ALL REFERENCE DESIGNATIONS WITH A2.

TABLE 1
POWER LINE CONNECTIONS

LINE VOLTAGE	STRAP TO TERMINALS	APPLY POWER TO TERMINALS
V RMS AC	1 TO 3 AND 3 TO 11	1 AND 3
115	1 TO 3 AND 3 TO 11	1 AND 3
120	1 TO 3 AND 3 TO 11	1 AND 3
220	3 TO 5	1 AND 12
240	3 TO 5	1 AND 7

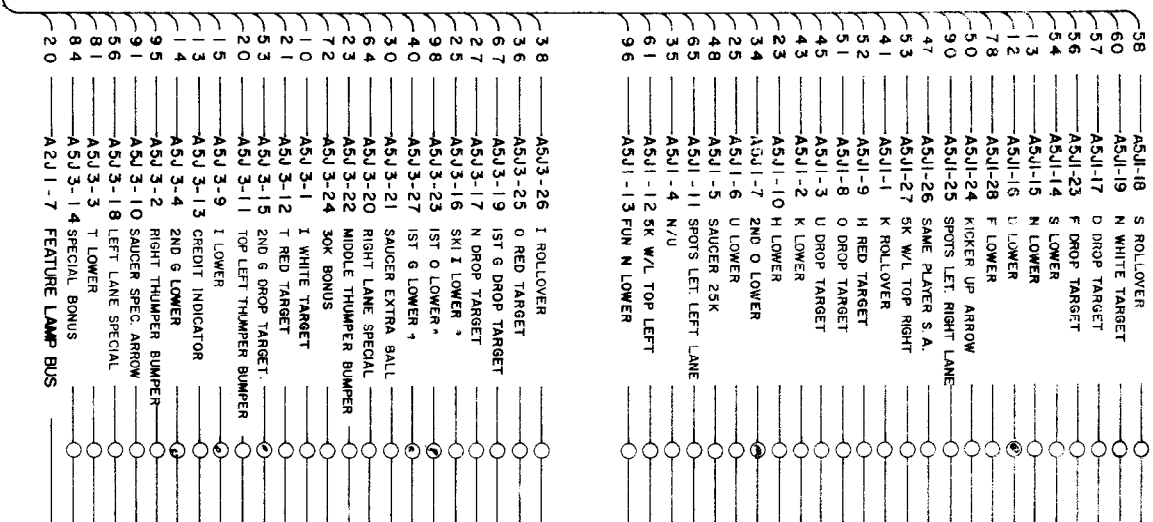
PER. DEPT.	DESCRIPTION	TOOL NO.

REV.	DATE	BY	NO.
1	10/14/74		1

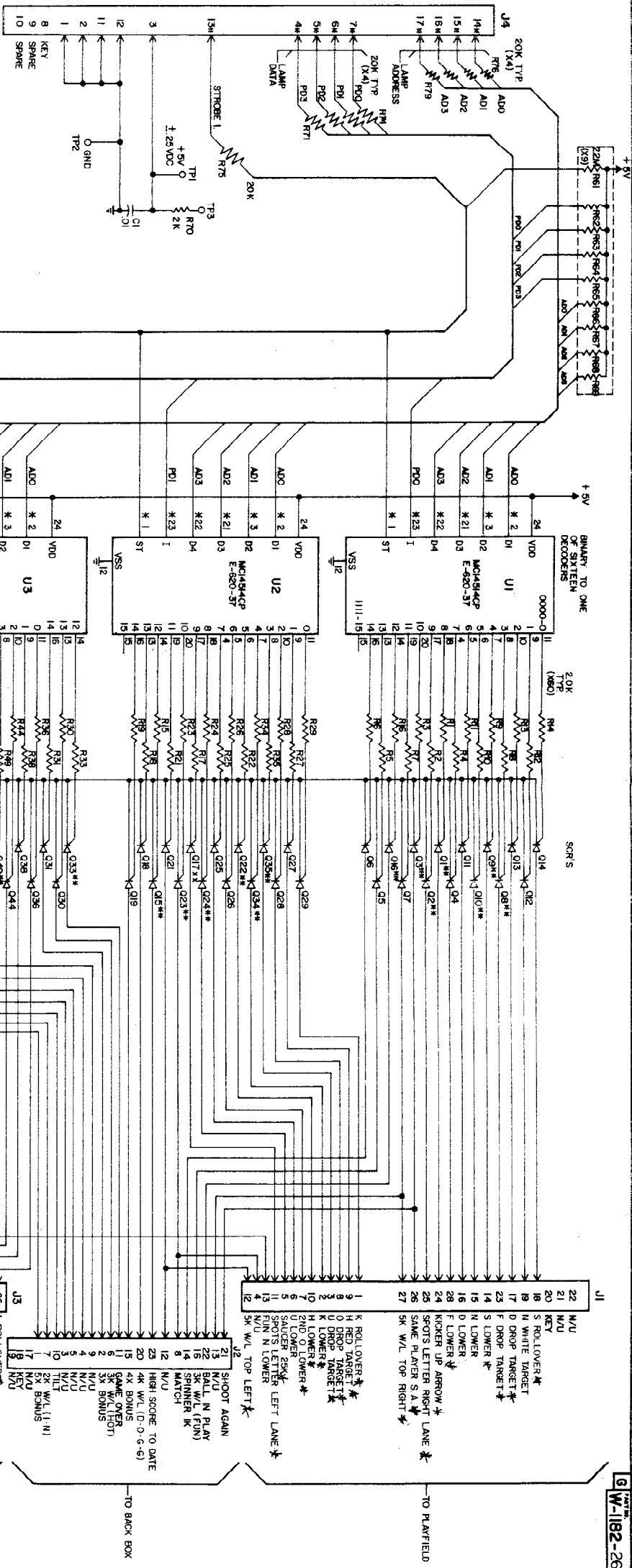
REV.	DATE	BY	NO.
1	10/14/74		1

REV.	DATE	BY	NO.
1	10/14/74		1

REV.	DATE	BY	NO.
1	10/14/74		1



PART NO
W-1192-22



NOTES:
1. #SCRS ARE MCR 106-1 (E-585-29). ALL OTHERS ARE 2ND060 (E-585-14) OR EQUIVALENTS.
2. ALL RESISTORS ARE 1/4W, 15%.
3. PREFIX ALL REFERENCE DESIGNATIONS WITH "AS".

4. # INDICATES "AND" TEST POINT.

DESCRIPTION

FIG. NO.

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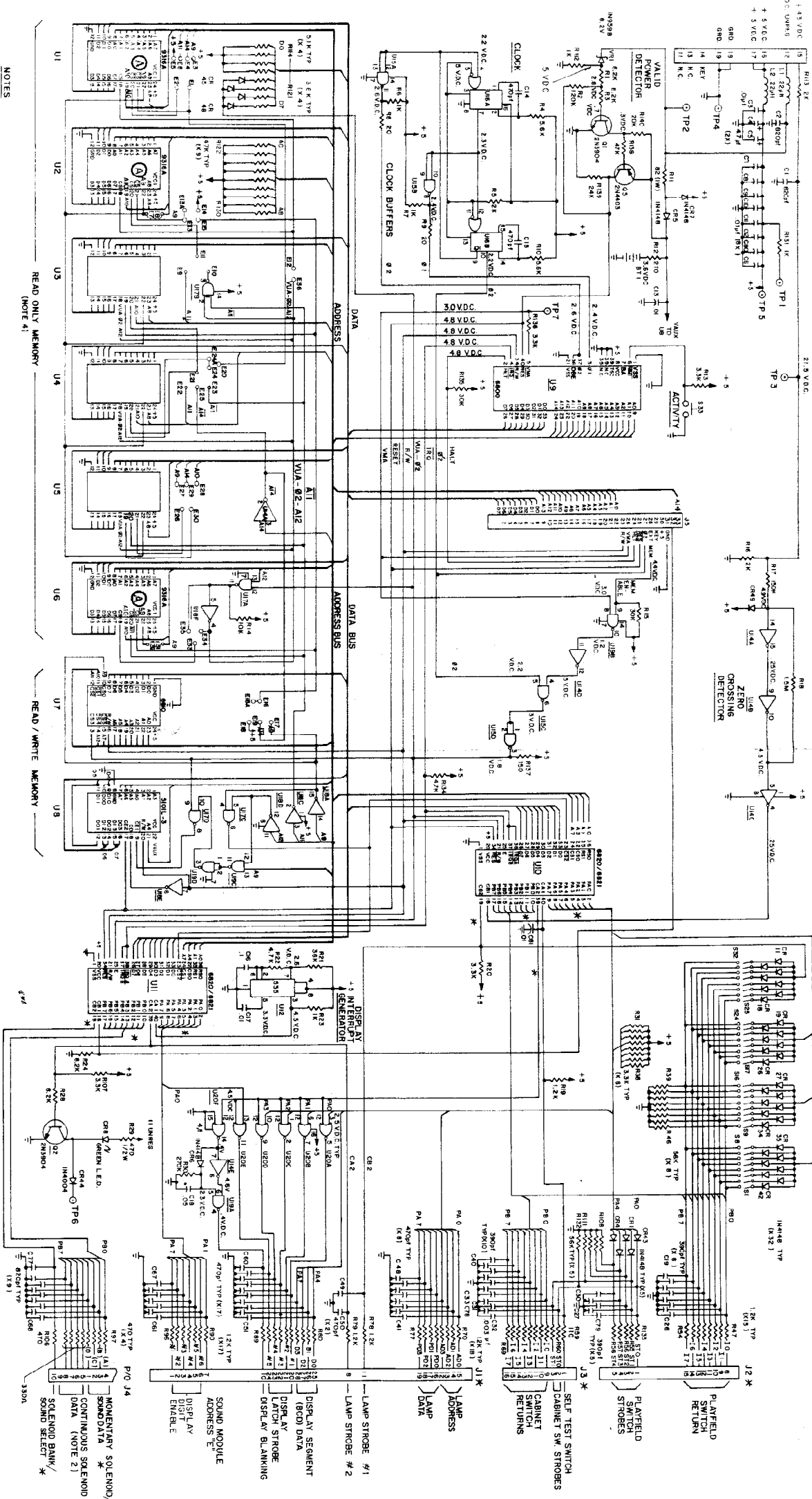
APP'D.

DATE

BY

CHKD.

APP'D.



- 1 * INDICATES "AID" TEST POINT
- 2 REMOVE ASIA BEFORE USING
- 3 AS AID TEST POINT
- 4 PREPARE AL REFERENCE
- 5 DESIGNATIONS WITH "A"
- 6 EXACT CHIP COMPONENTS USED IN SERIES U1 THRU U6
- 7 CAN VARY FOR DIFFERENT GAMES AND CORRESPONDING
- 8 TABLES OF MEMORY CHIPS AND CORRESPONDING
- 9 JUMPER FOR DIFFERENT GAMES AVAILABLE FROM
- 10 BALLY FIELD SERVICE DEPARTMENT

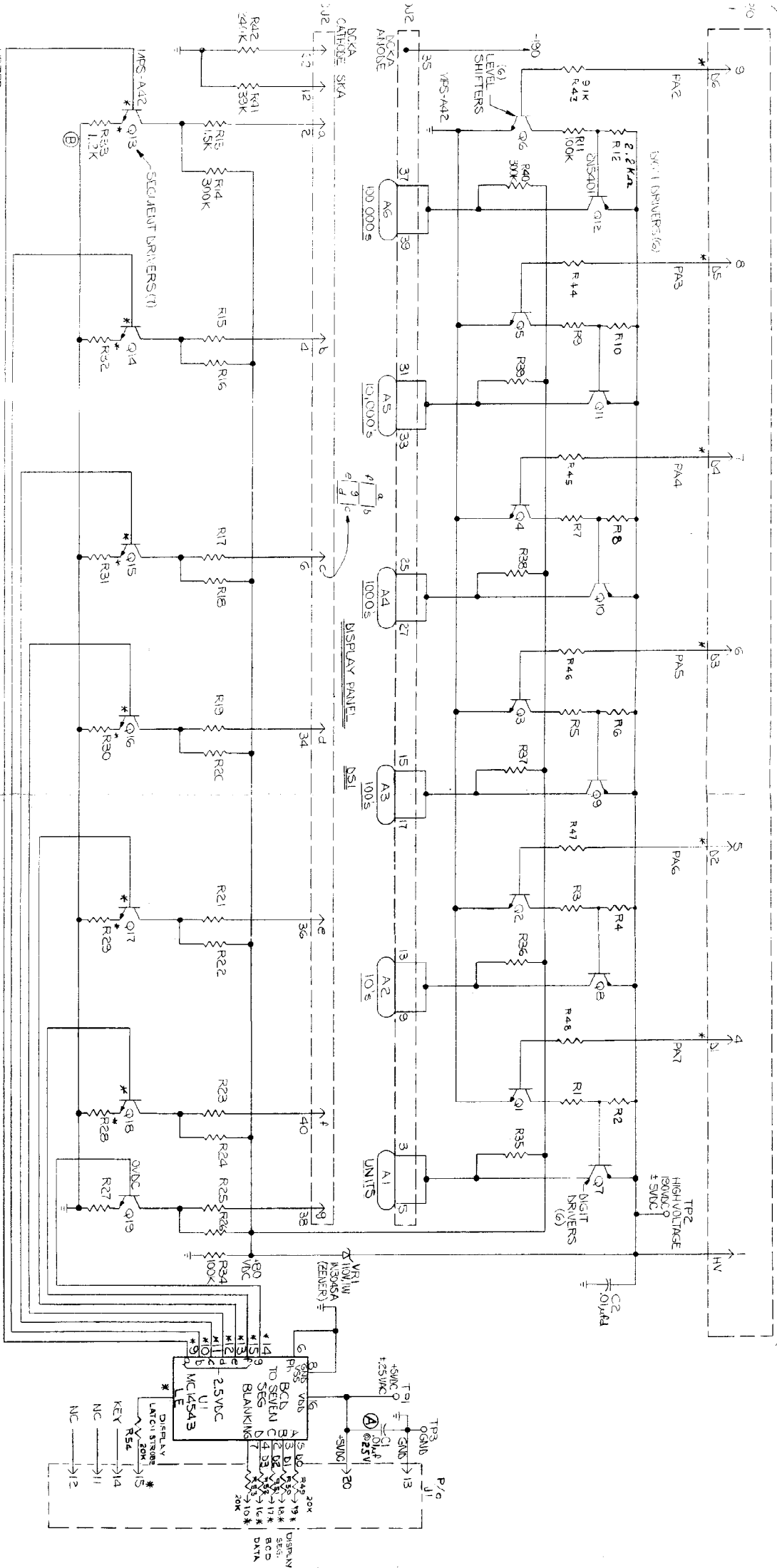
NOTES									
1 * INDICATES "AID" TEST POINT									
2 REMOVE ASIA BEFORE USING									
3 AS AID TEST POINT									
4 PREPARE AL REFERENCE									
5 DESIGNATIONS WITH "A"									
6 EXACT CHIP COMPONENTS USED IN SERIES U1 THRU U6									
7 CAN VARY FOR DIFFERENT GAMES AND CORRESPONDING									
8 TABLES OF MEMORY CHIPS AND CORRESPONDING									
9 JUMPER FOR DIFFERENT GAMES AVAILABLE FROM									
10 BALLY FIELD SERVICE DEPARTMENT									

READ ONLY MEMORY (NOTE 4)									
U1	U2	U3	U4	U5	U6	U7	U8	U9	U10
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

READ / WRITE MEMORY									
U1	U2	U3	U4	U5	U6	U7	U8	U9	U10
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

P/D 14									
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

P/D 14									
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100



NOTES:

1. UNLESS OTHERWISE SPECIFIED ALL RESISTORS ARE ± 5% 1/4W.
2. PREFIX ALL REFERENCE DESIGNS WITH ASSEMBLY REFERENCE DESIGNS. A1"
3. * INDICATES A10' TEST POINT.

DWG. SIZE —

C.C. —

FT. PER M. —

LBS. PER M. —

DEPT.	DESCRIPTION	TOOL NO.
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REVISIONS

NO.	DATE	DESCRIPTION
1	10/1/64	INITIAL DESIGN
2	10/1/64	REVISED FOR MANUFACTURING
3	10/1/64	REVISED FOR MANUFACTURING
4	10/1/64	REVISED FOR MANUFACTURING
5	10/1/64	REVISED FOR MANUFACTURING
6	10/1/64	REVISED FOR MANUFACTURING
7	10/1/64	REVISED FOR MANUFACTURING
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9	10/1/64	REVISED FOR MANUFACTURING
10	10/1/64	REVISED FOR MANUFACTURING

MANUFACTURING CORP.
100 BILLY AVENUE
CHICAGO, ILLINOIS 60611

DISPLAY BOARD SCHEMATIC
AS-2518-21

REVISIONS

NO.	DATE	DESCRIPTION
1	10/1/64	INITIAL DESIGN
2	10/1/64	REVISED FOR MANUFACTURING
3	10/1/64	REVISED FOR MANUFACTURING
4	10/1/64	REVISED FOR MANUFACTURING
5	10/1/64	REVISED FOR MANUFACTURING
6	10/1/64	REVISED FOR MANUFACTURING
7	10/1/64	REVISED FOR MANUFACTURING
8	10/1/64	REVISED FOR MANUFACTURING
9	10/1/64	REVISED FOR MANUFACTURING
10	10/1/64	REVISED FOR MANUFACTURING



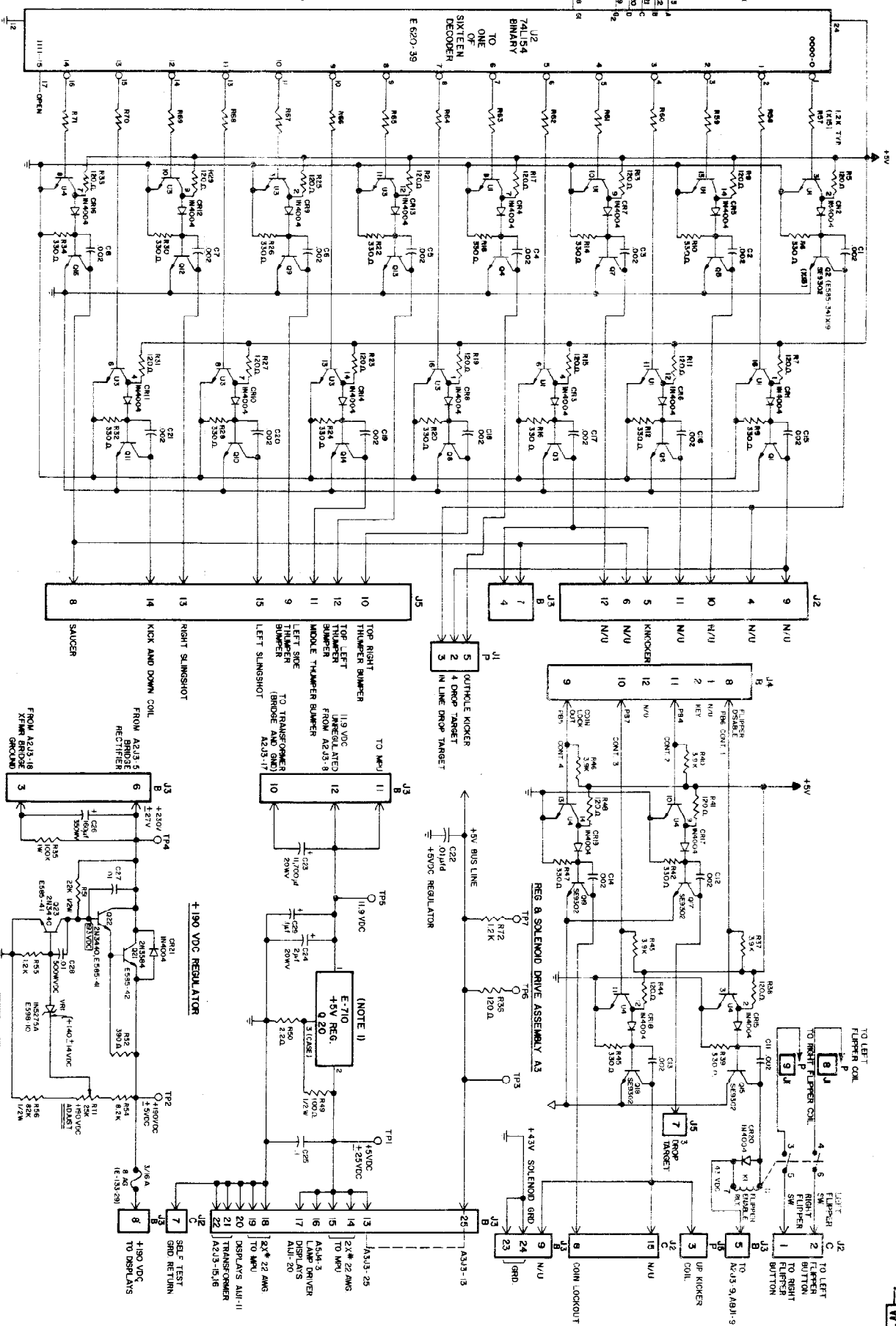
NOTE : - DIODES ARE IN4004, (E-587-6)

TO		J1	TO		J1
		PIN			PIN
A4J3-9	1	A4J3-3	11		
A4J3-10	2	A4J2-2	15		
A4J3-11	3	A4J2-8	16		
A4J3-12	4	A4J2-1	17		
A4J3-13	5	A4J2-5	18		
A4J3-14	6	A4J3-1	19		
A4J3-15	7	A4J2-7	20		
A4J3-16	8				
A4J3-17	9				
A4J3-18	10				

DOOR PLUG

NOTE: (CAUTION)
SAFETY PRECAUTIONS

1. USE BALLY PART No. E-713 FOR 115-120 VAC.
2. USE BALLY PART No. E-713-1 FOR 220-240 VAC.
3. * INDICATES AID TEST POINT.



NOTES

1. E-710, LAMBEA-1AS 1405
NATIONAL L-1632X
PARHOLD 78905XK
2. JI-KH56-9 PIN KEY PIN 7
J2-KH56-9 PIN KEY PIN 3
J4-KH56-9 PIN KEY PIN 2
J4-KH56-9 PIN KEY PIN 2
J5-KH56-9 PIN KEY PIN 6
3. PREFIX ALL REFERENCE DESIGNATIONS
WITH "A3".
4. "1", "A3", "Y" PINS 5 AND 16 ARE
GROUNDING
5. VOLTAGE SHOWN ARE FOR A GAME UP
CONDITION
6. "U₁", "U₃" AND "U₄" ARE CA-3081/ESB81
7. * INDICATES AD TEST POINT.

CONNECTOR CODE

- C → ROUTE TO CABINET CONN
B → ROUTE TO BACK BOX CONN
P → ROUTE TO PLAYFIELD CONN

LAST NUMBER USED

- | | |
|------|------------|
| C29 | N/U C9,C10 |
| Q23 | N/U Q20 |
| CR21 | |
| VR1 | |

W-1183-26