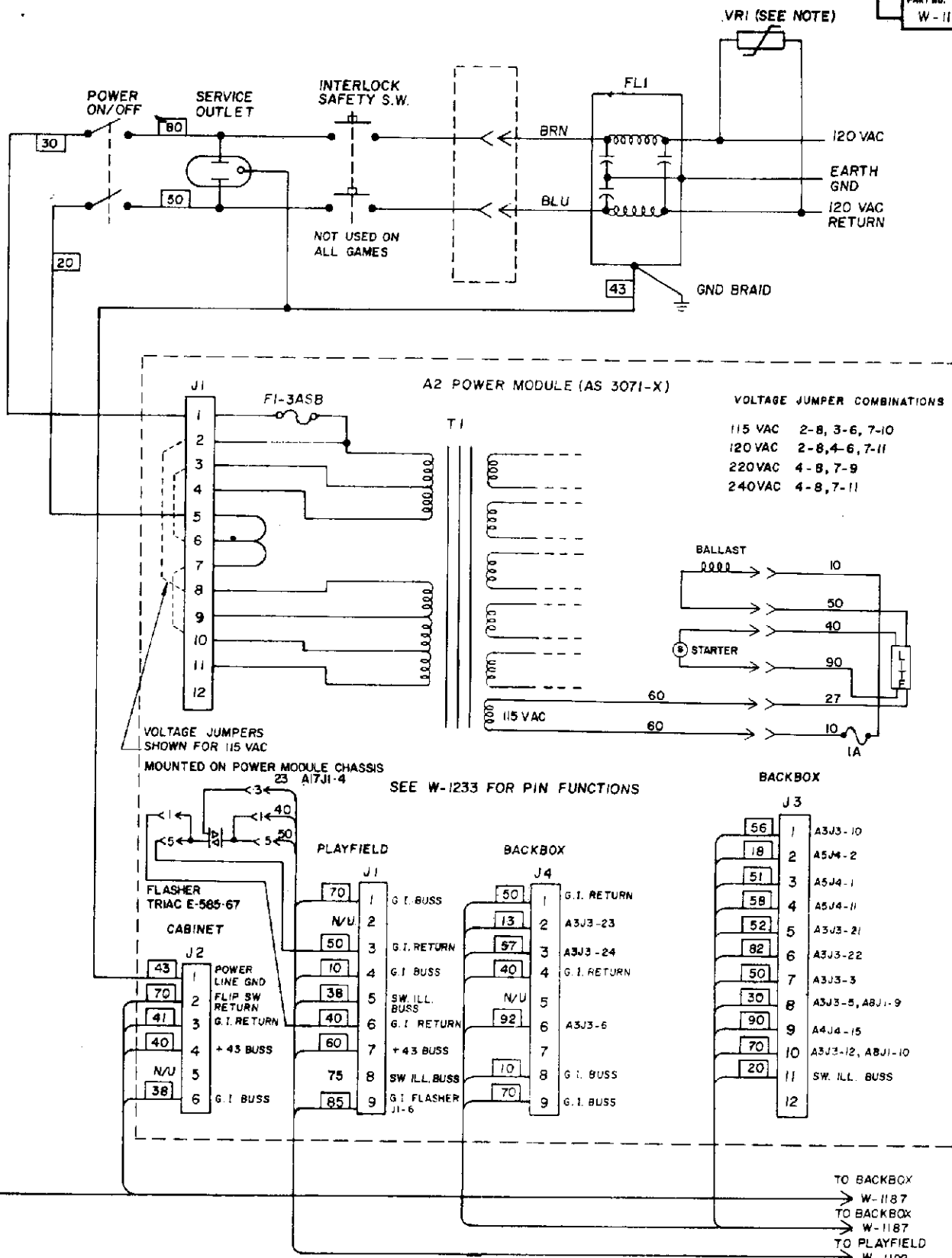


NOTES: (CAUTION)

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.

TO	J1 PIN	TO	J1 PIN
A4J3-9	1	A4J3-3	11
A4J3-10	2	A2J2-4	15
A4J3-11	3	A3J2-8	16
A4J3-12	4	A2J2-6	17
A4J3-13	5	A2J2-3	18
A4J3-14	6	A4J3-1	19
A4J3-15	7	A3J2-7	20
A4J3-16	8	SPEAKER	9
A4J3-2	10	A14J2-1	12
DOOR PLUG		A14J2-2	13

A7 CABINET ASS'Y. WIRING  
NOTE: DIODES ARE IN4004,

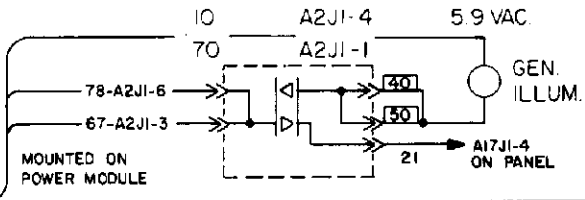
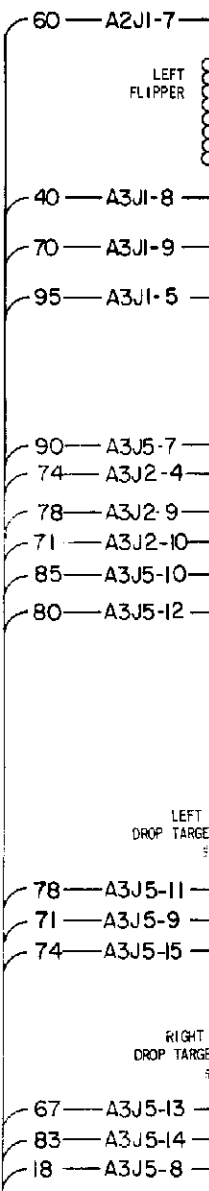
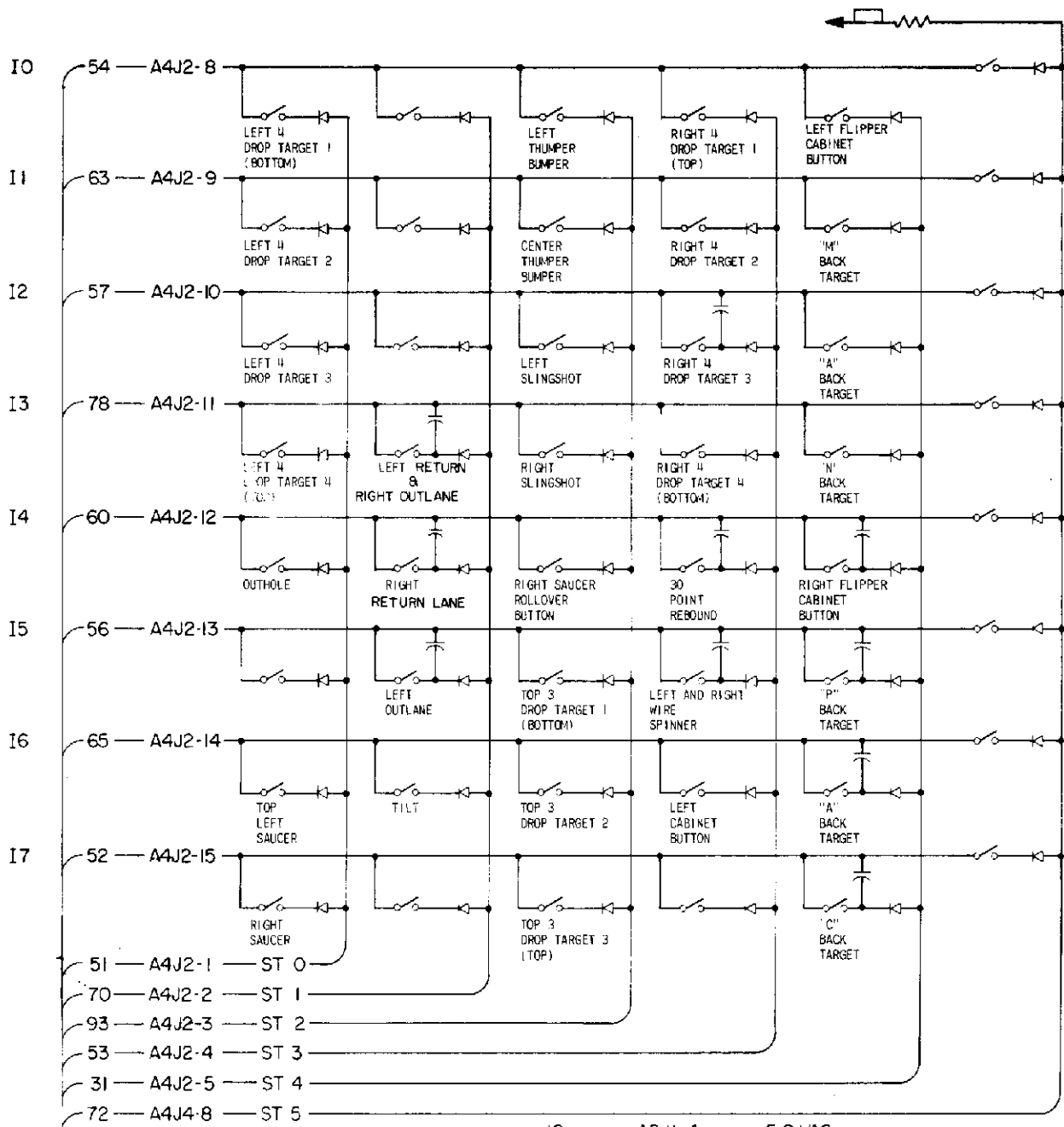


- A14J2-1
- REMOTE VOLUME CONTROL WIPER
- A2J2-4
- A3J2-5
- A4J3-3
- A4J3-15
- A4J3-16
- A3J2-2
- A3J2-1
- A2J2-2

TO BACKBOX  
 W-1187  
 TO BACKBOX  
 W-1187  
 TO PLAYFIELD  
 W-1192

04, (E-587-6)

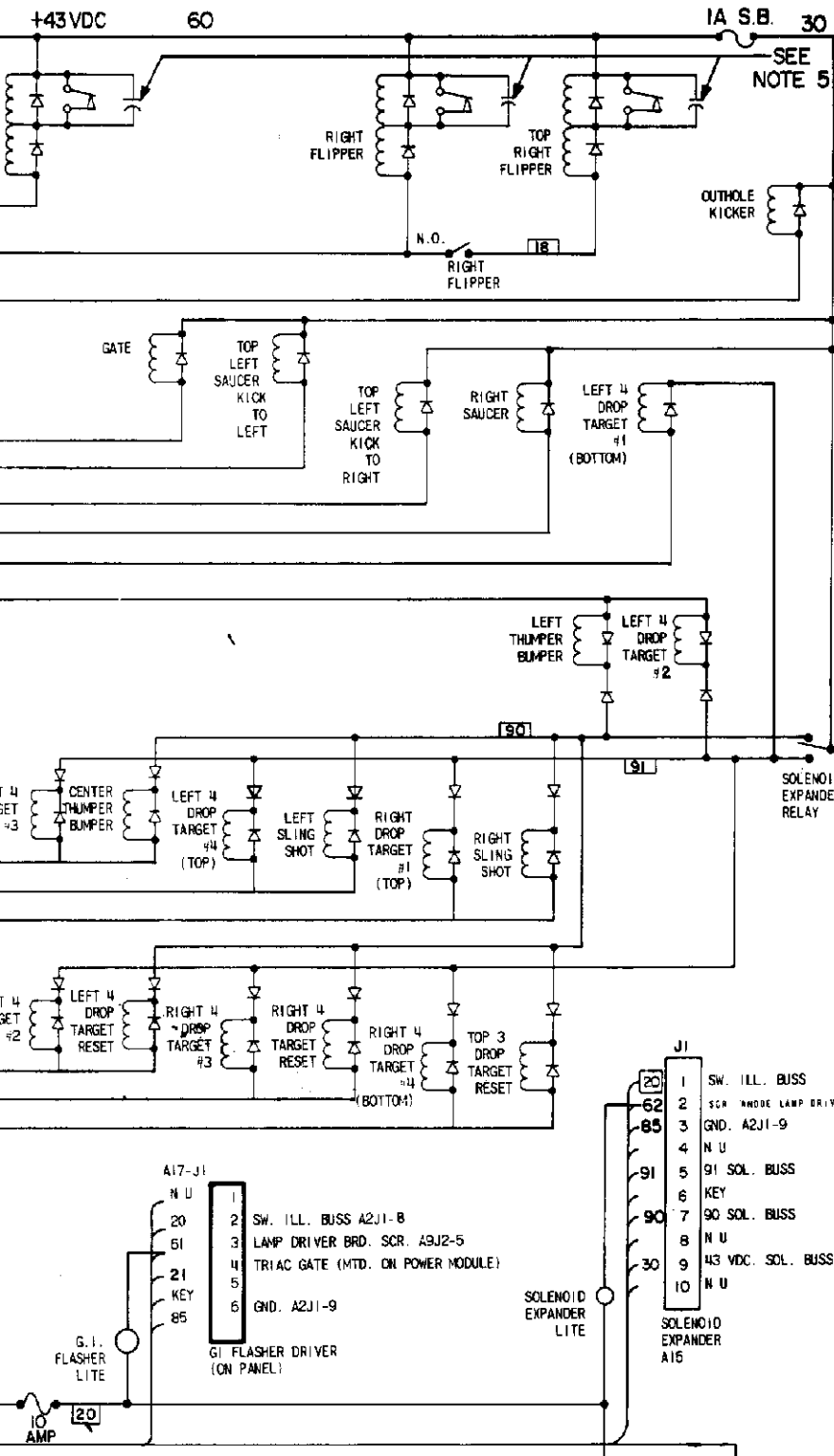
<p>REMOVES ALL BURS</p> <p>TOLERANCES UNLESS OTHERWISE SPECIFIED</p> <p>FRACTIONS - 1/16</p> <p>DECIMALS - 0.001</p> <p>EXCEPT HOLE DIA S ANGLES</p> <p>DO NOT SCALE DRAWING</p>				<p>DR BY: <b>FEC</b> DATE: <b>3-82</b></p> <p>CHK BY: <b>...</b> DATE: <b>3-25-82</b></p> <p>APPROV: <b>...</b> DATE: <b>4-5-82</b></p> <p>ASSEMBY: <b>...</b> DATE: <b>4-15-82</b></p> <p>FINISH: <b>...</b></p> <p>HARDENING: <b>...</b></p>		<p><b>Bally MANUFACTURING CORP</b></p> <p>2640 BELMONT AVENUE #1283</p> <p>CHICAGO ILLINOIS</p> <p>DIE SIZE: C.C. FT PER M .LBS PER M</p>			
<p>NAME: <b>WIRING DIAGRAM - CABINET</b></p> <p>MATERIAL: <b>PAC MAN</b></p> <p>LOG#</p>		<p>ASSEM NO USED</p> <p>PART NO: <b>W-1186-20C</b></p>		<p>SCALE</p>					
NO.	LET.	CHANGE	DATE	BY					



PLAYFIELD A6

NOTES

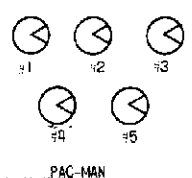
1. INDICATES NOT USED
2. N/U = NOT USED ON PLAYFIELD
3. \* INDICATES AID TEST POINT
4. COIL DIODES ARE IN4004 (E-587-6) SWITCH DIODES ARE IN4148 (E-587-14)  
ALL CAPACITORS ARE .05 MFD. (E-586-80)
5. GERMANY ONLY - CAPACITOR .01 MFD. @ 500 V. (E-586-65)



- 58 — A5J1-18 #4 YELLOW PAC MAZE
- 60 — A5J1-19 #8 YELLOW PAC MAZE
- 57 — A5J1-17 #12 YELLOW PAC MAZE
- 12 — A5J1-23 #16 YELLOW PAC MAZE
- 67 — A5J1-14 #20 YELLOW PAC MAZE
- 13 — A5J1-15 #24 YELLOW PAC MAZE
- 15 — A5J1-16 3 DROP TARGET 20K
- 78 — A5J1-28 PAC-MAN MAZE AGGRESSIVE
- 50 — A5J1-24 LEFT & RIGHT LANE 10K ARROW
- 75 — A5J1-25 LEFT & RIGHT LANE X BALL
- 91 — A5J1-26 N U
- 53 — A5J1-27 "UP" DIRECTION ARROW
- 41 — A5J1-1 #3 YELLOW PAC MAZE
- 43 — A5J1-9 #7 YELLOW PAC MAZE
- 51 — A5J1-8 #11 YELLOW PAC MAZE
- 45 — A5J1-3 #15 YELLOW PAC MAZE
- 52 — A5J1-2 #19 YELLOW PAC MAZE
- 23 — A5J1-10 #23 YELLOW PAC MAZE
- 34 — A5J1-7 3 DROP TARGET 30K
- 25 — A5J1-6 "P" LEFT DROP TARGET
- 48 — A5J1-5 LEFT & RIGHT LANE 20K ARROW
- 65 — A5J1-11 RIGHT SAUCER 10 MOVES ARROW
- 35 — A5J1-4 N U
- 61 — A5J1-12 "RIGHT" DIRECTION ARROW
- 30 — A5J1-13 "A" LEFT DROP TARGET

- 38 — A5J3-26 #2 YELLOW PAC MAZE
- 36 — A5J3-25 #6 YELLOW PAC MAZE
- 67 — A5J3-19 #10 YELLOW PAC MAZE
- 13 — A5J3-17 #14 YELLOW PAC MAZE
- 25 — A5J3-16 #18 YELLOW PAC MAZE
- 98 — A5J3-23 #22 YELLOW PAC MAZE
- 40 — A5J3-27 3 DROP TARGET PAC-MAN
- 64 — A5J3-21 LEFT & RIGHT LANE 30K ARROW
- 78 — A5J3-20 LEFT & RIGHT SAUCER MAZE ARROW
- 23 — A5J3-22 SAME PLAYER SHOOT AGAIN
- 72 — A5J3-24 "DOWN" DIRECTION ARROW
- 10 — A5J3-1 #1 YELLOW PAC MAZE
- 31 — A5J3-12 #5 YELLOW PAC MAZE
- 53 — A5J3-15 #9 YELLOW PAC MAZE
- 20 — A5J3-11 #13 YELLOW PAC MAZE
- 15 — A5J3-9 #17 YELLOW PAC MAZE
- 35 — A5J3-13 CREDIT INDICATOR
- 14 — A5J3-4 #25 YELLOW PAC MAZE
- 95 — A5J3-2 "C" LEFT DROP TARGET
- 91 — A5J3-10 LEFT & RIGHT LANE 40K ARROW
- 56 — A5J3-18 LEFT GATE ARROW
- 81 — A5J3-3 #21 YELLOW PAC MAZE
- 84 — A5J3-14 "LEFT" DIRECTION ARROW
- 38 — A2J1-5 FEATURE LAMP BUS

- 20 — A5J2-2 "A" RIGHT DROP TARGET
- 12 — A5J2-14 #5 PAC-MAN
- 23 — A5J2-15 "M" RIGHT DROP TARGET
- 98 — A5J2-20 #2 PAC-MAN
- 85 — A5J2-6 #3 PAC-MAN
- 91 — A5J2-7 #4 PAC-MAN
- 60 — A5J2-1 "N" RIGHT DROP TARGET
- 34 — A5J2-16 #1 PAC-MAN



REQ MONSTER MAZE	1	2	3	4	5	YELLOW PAC MAZE
	6	7	8	9	10	
	11	12	13	14	15	
	16	17	18	19	20	
	21	22	23	24	25	

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REMOVE ALL BURRS

TOLERANCES UNLESS OTHERWISE SPECIFIED

FRACTIONS -

DECIMALS -

EXCEPT HOLE DIA S ANGLES -

DD NOT SCALE DRAWING

DR BY **FFC** DATE **3-82**

CHK BY **FFC** DATE **3-25-82**

APD BY **FFC** DATE **3-25-82**

PRINT CENTRAL

NAME **WIRING DIAGRAM PLAYFIELD**

MATERIAL **PAC-MAN**

HARDENING

DIE SIZE - CC - FT PER M - LBS PER M

ASSEM NO USED

PART NO **W-1192-37**

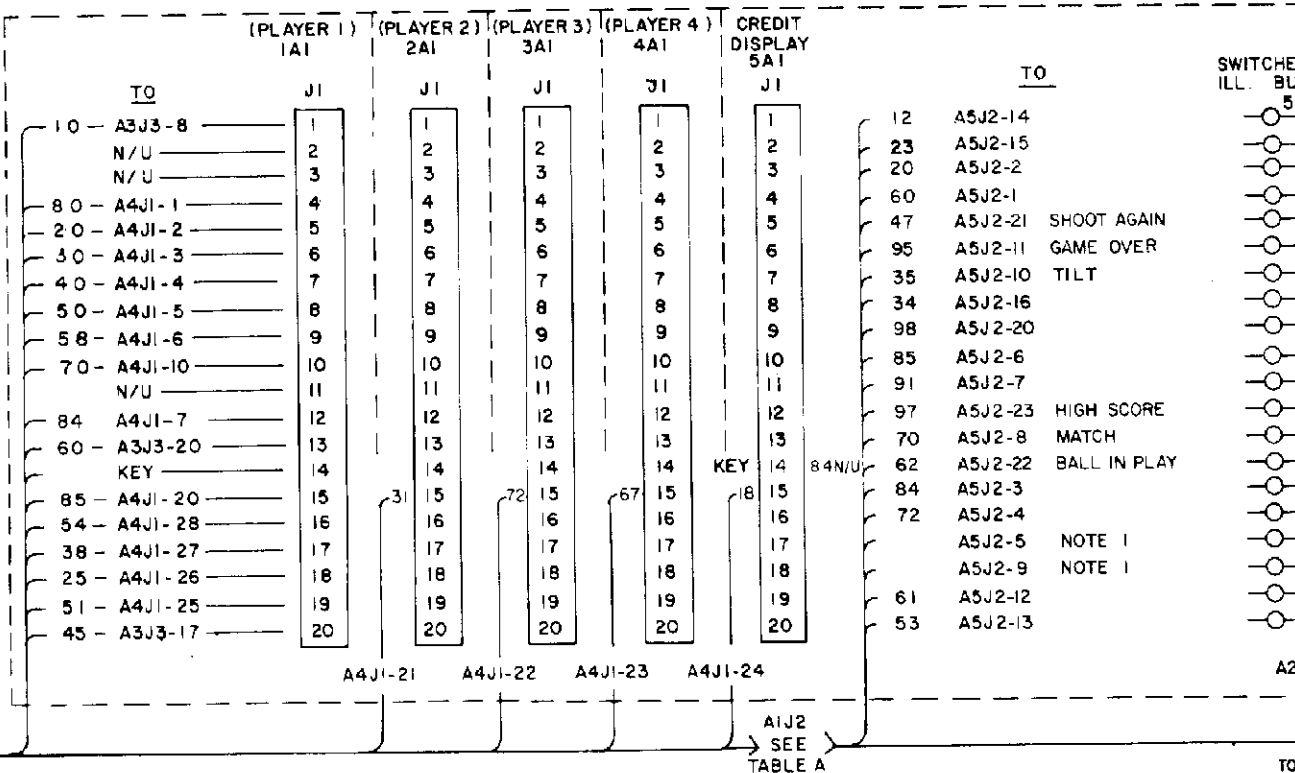
**Bally MANUFACTURING CORP.** #1283  
2640 BELMONT AVENUE  
CHICAGO, ILLINOIS

TABLE A AIJ2

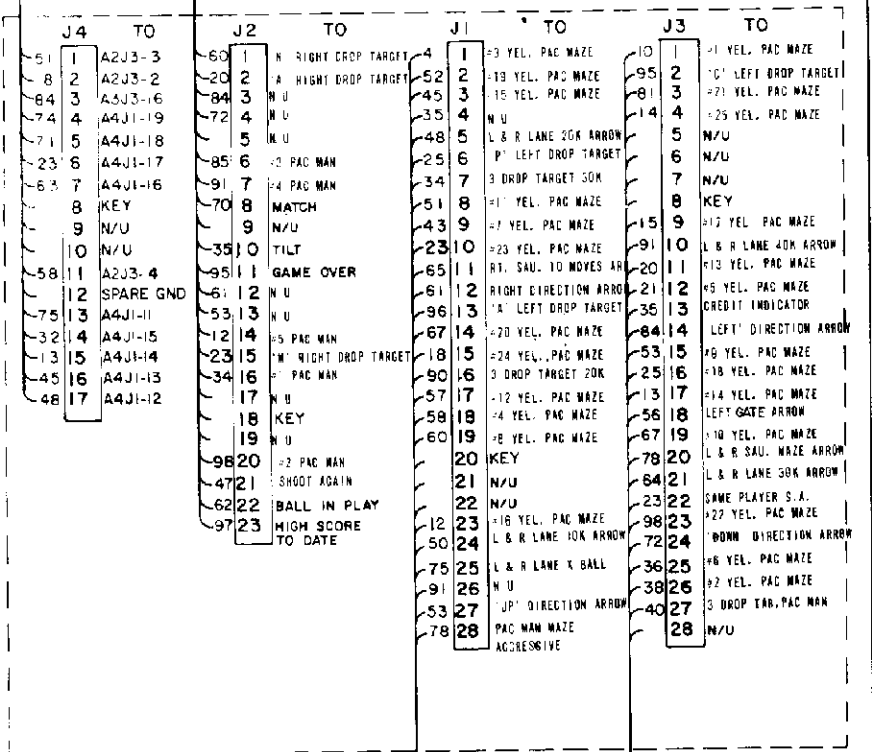
24 PIN PLUG		
FROM	PIN	WIRE
A3J3-8	1	10
A4J1-24	2	18
A4J1-2	3	20
A4J1-26	4	25
A4J1-3	5	30
A4J1-21	6	31
A4J1-27	7	38
A4J1-4	8	40
A3J3-17	9	45
A5J2-21	10	47
A4J1-5	11	50
A4J1-25	12	51
A4J1-28	13	54
A4J1-6	14	58
A3J3-20	15	60
A5J2-22	16	62
A4J1-23	17	67
A14J1-7	18	70
A4J1-22	19	72
A4J1-1	20	80
A4J1-7	21	84
A4J1-20	22	85
A2J4-4	23	40
A2J4-9	24	70

INSERT TO BACK CAB PLUG

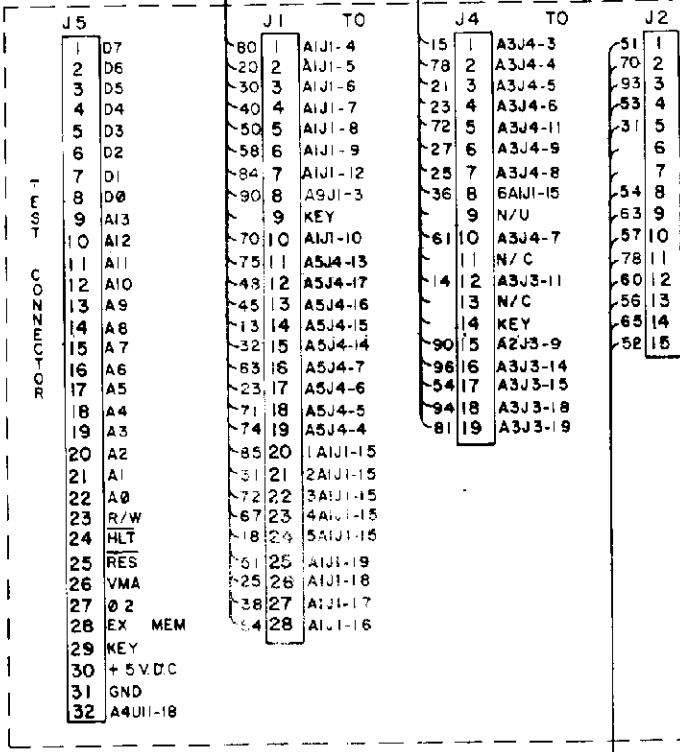
AI INSERT



LAMP DRIVER A5



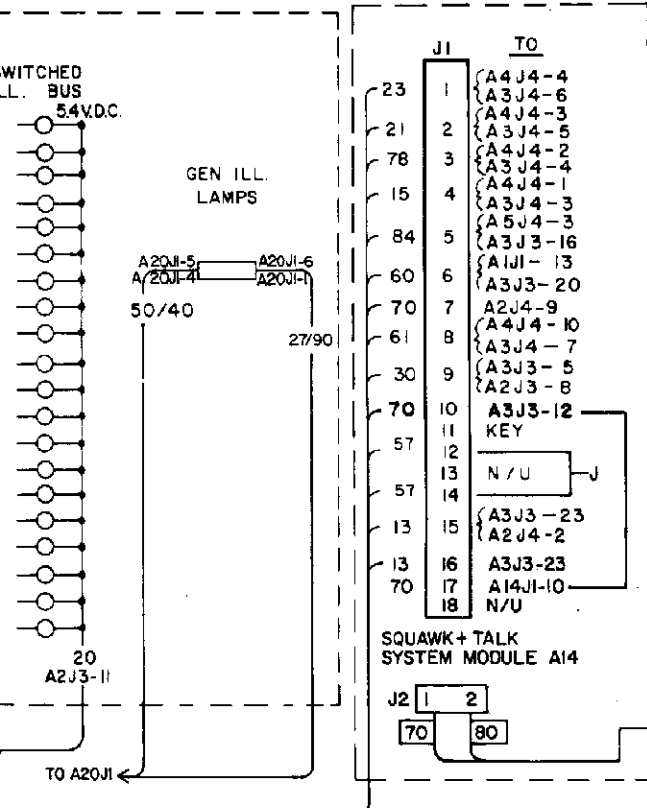
MPU A4



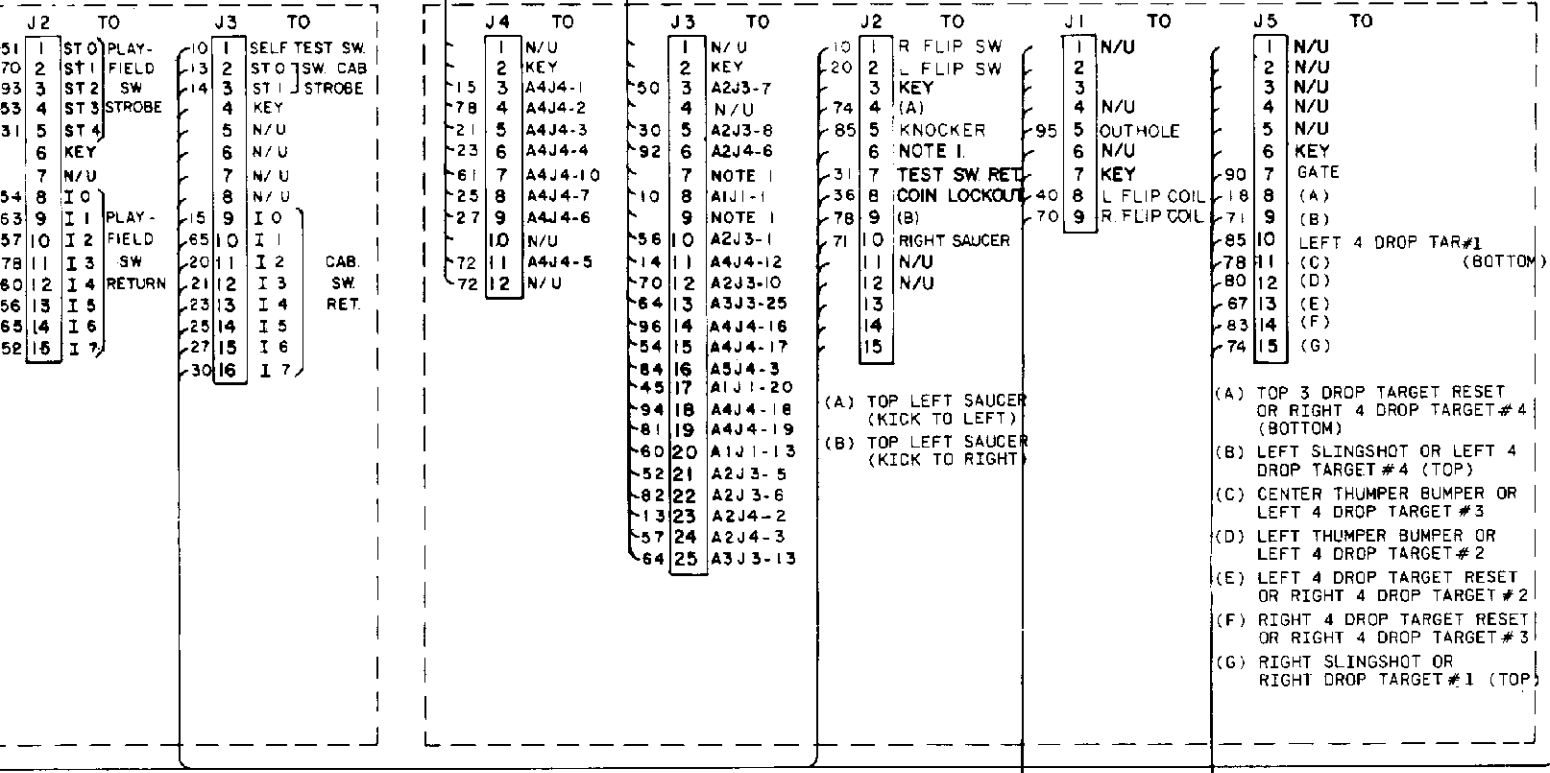
TO LOWER CABINET  
TO PLAYFIELD

NOTES:  
 1. THESE PINS ARE RESERVED FOR FUTURE USE.  
 2. WIRE COLOR ARE SHOWN FOR ALL CONNECTOR PINS, SOME WIRE MAY NOT BE USED IN ALL GAMES.  
 3. \* INDICATES AID TEST POINT.

W	1
	2
	3
	4
	5



VOLTAGE REGULATOR / SOLENOID DRIVER A3



WIRE COLOR CODE

1-RED	6-BROWN
2-BLUE	7-ORANGE
3-YELLOW	8-BLACK
4-GREEN	9-GRAY
5-WHITE	0-NO TRACE

REMOVE ALL BURRS

TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED: FRACTIONS - 1/64, DECIMALS - .005, ANGLES -

DO NOT SCALE DRAWING

OR BY DATE 3-27-82  
E.V.

DATE 3-29-82

APD BY DATE 4/15/82  
J.D.

APD BY DATE 4/15/82  
J.D.

FINISH

HARDENING

MATERIAL PAC MAN

2640 BELMONT AVENUE  
CHICAGO ILLINOIS

Bally MANUFACTURING CORP

\*283

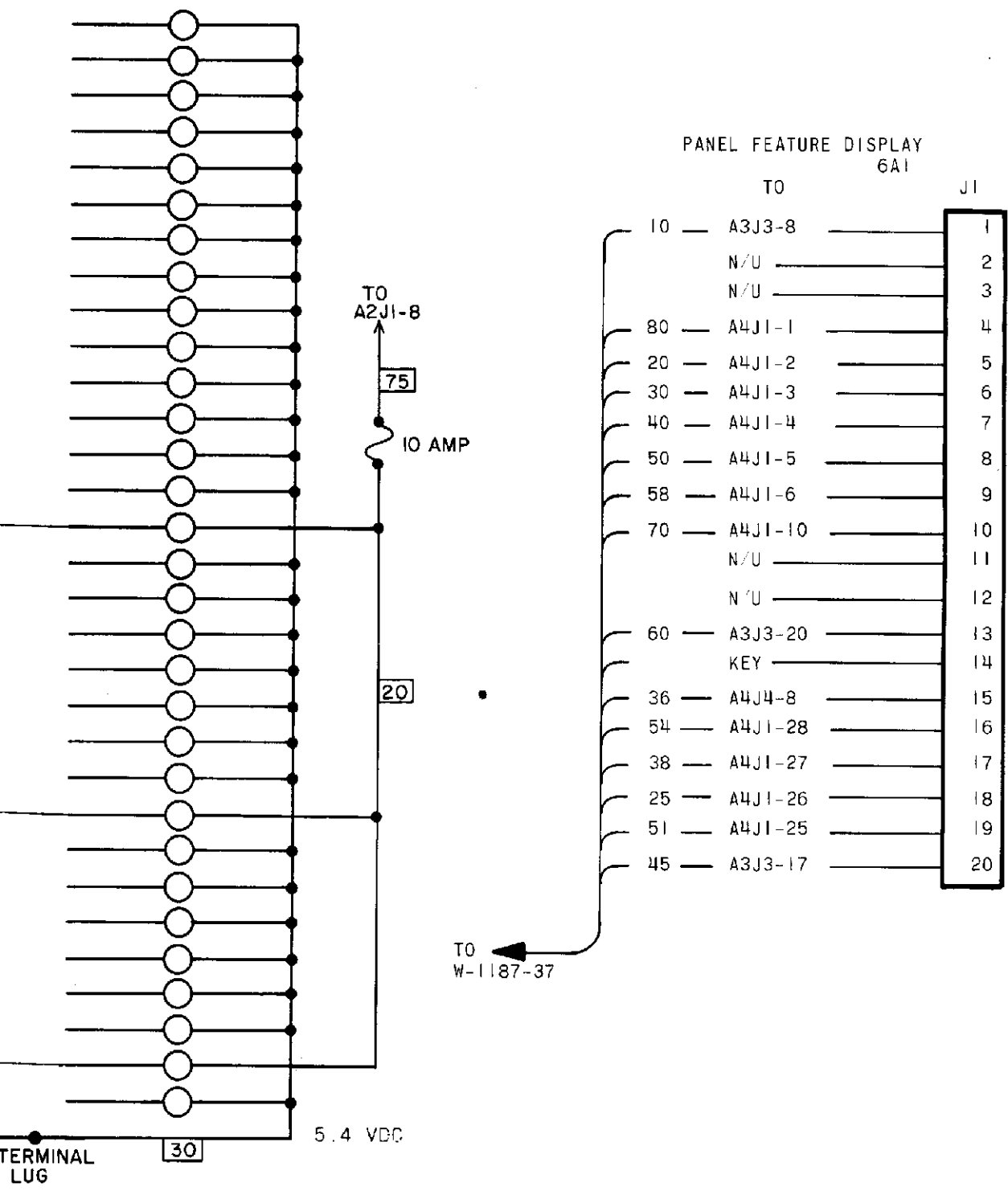
SCALE

NAME WIRING DIAGRAM BACKBOX

ASSEM NO USED ON W

PART NO W-1187-37c





PANEL FEATURE DISPLAY  
6A1

TO J1

10	A3J3-8	1
	N/U	2
	N/U	3
80	A4J1-1	4
20	A4J1-2	5
30	A4J1-3	6
40	A4J1-4	7
50	A4J1-5	8
58	A4J1-6	9
70	A4J1-10	10
	N/U	11
	N/U	12
60	A3J3-20	13
	KEY	14
36	A4J4-8	15
54	A4J1-28	16
38	A4J1-27	17
25	A4J1-26	18
51	A4J1-25	19
45	A3J3-17	20

TO A2J1-8

75

10 AMP

20

TO W-1187-37

5.4 VDC

30

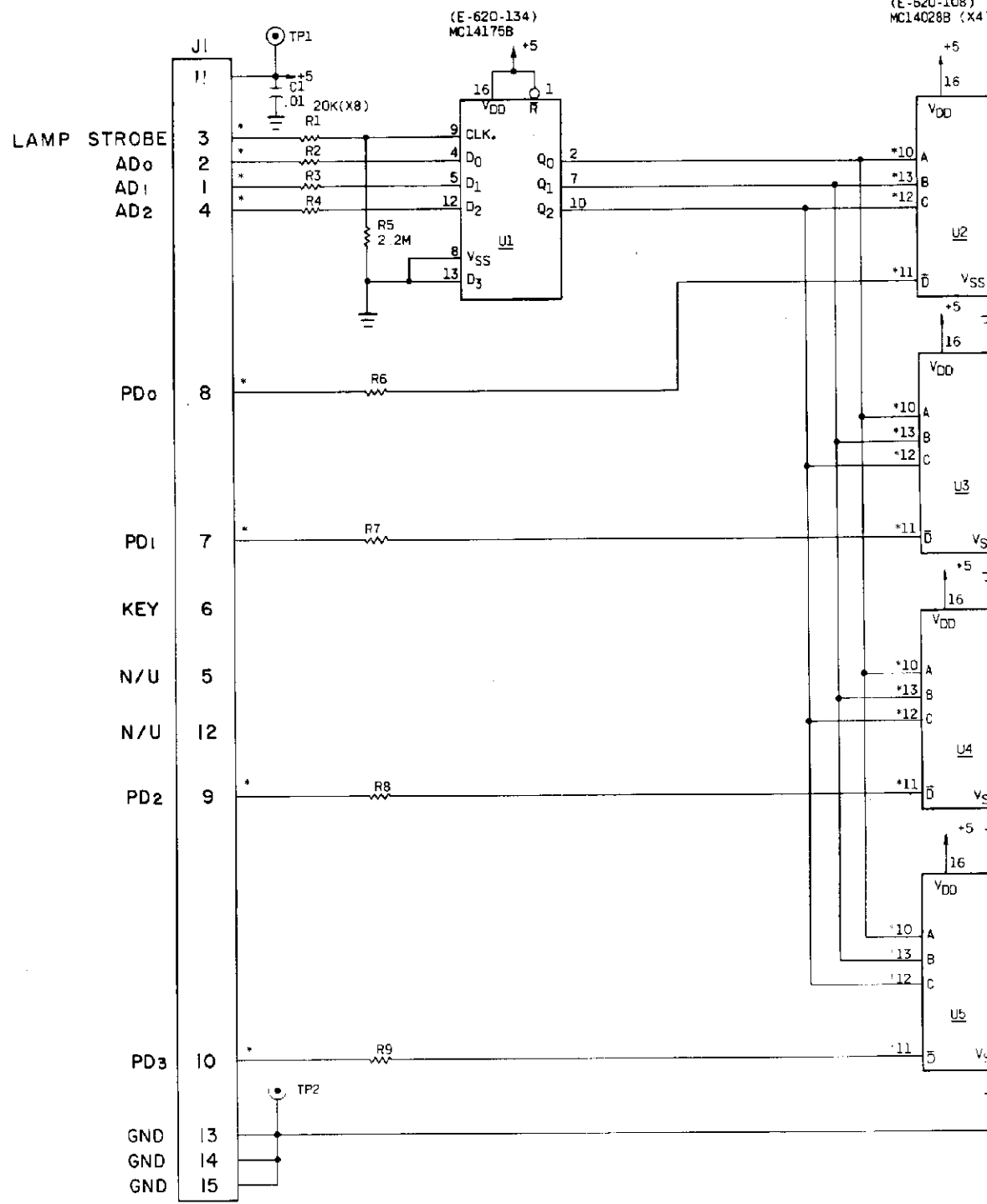
TERMINAL LUG

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REMOVE ALL BURRS  TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED FRACTIONS ± PER DECIMALS ± PER EXCEPT HOLE DIAS ANGLES ± PER  DO NOT SCALE DRAWING	DR BY <i>FFC</i>	DATE 3-82	Bally MANUFACTURING CORP. 2640 BELMONT AVENUE CHICAGO, ILLINOIS #1283				
	CK BY <i>FFC</i>	DATE 3-23-82					
	AP'D BY <i>JH</i>	DATE 4-15-82	PRINT CONTROL	DIE SIZE	C.C.	FT. PER M.	LBS. PER M.
	AP'D BY <i>JH</i>	DATE 4-15-82	FINISH:	NAME WIRING DIAGRAM PLAYFIELD		ASSEM. NO. USED	SCALE
HARDENING:	MATERIAL PAC-MAN	CODE	PART NO. W-1255-7 <i>b</i>				
CHANGE	DATE	BY					



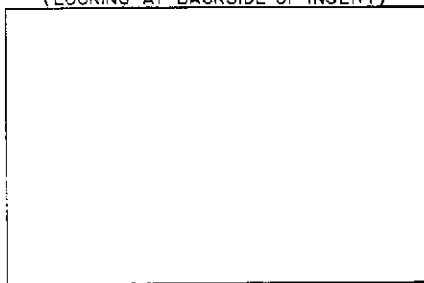
(E-620-108)  
MC140288 (X4)



A9	J1	TO
13	1	A5J4-15
32	2	A5J4-14
90	3	A4J1-8
45	4	A5J4-16
	5	KEY
	6	KEY
23	7	A5J4-6
63	8	A5J4-7
71	9	A5J4-5
74	10	A5J4-4
84	11	A5J4-3
	12	
	13	
	14	
58	15	A5J4-11

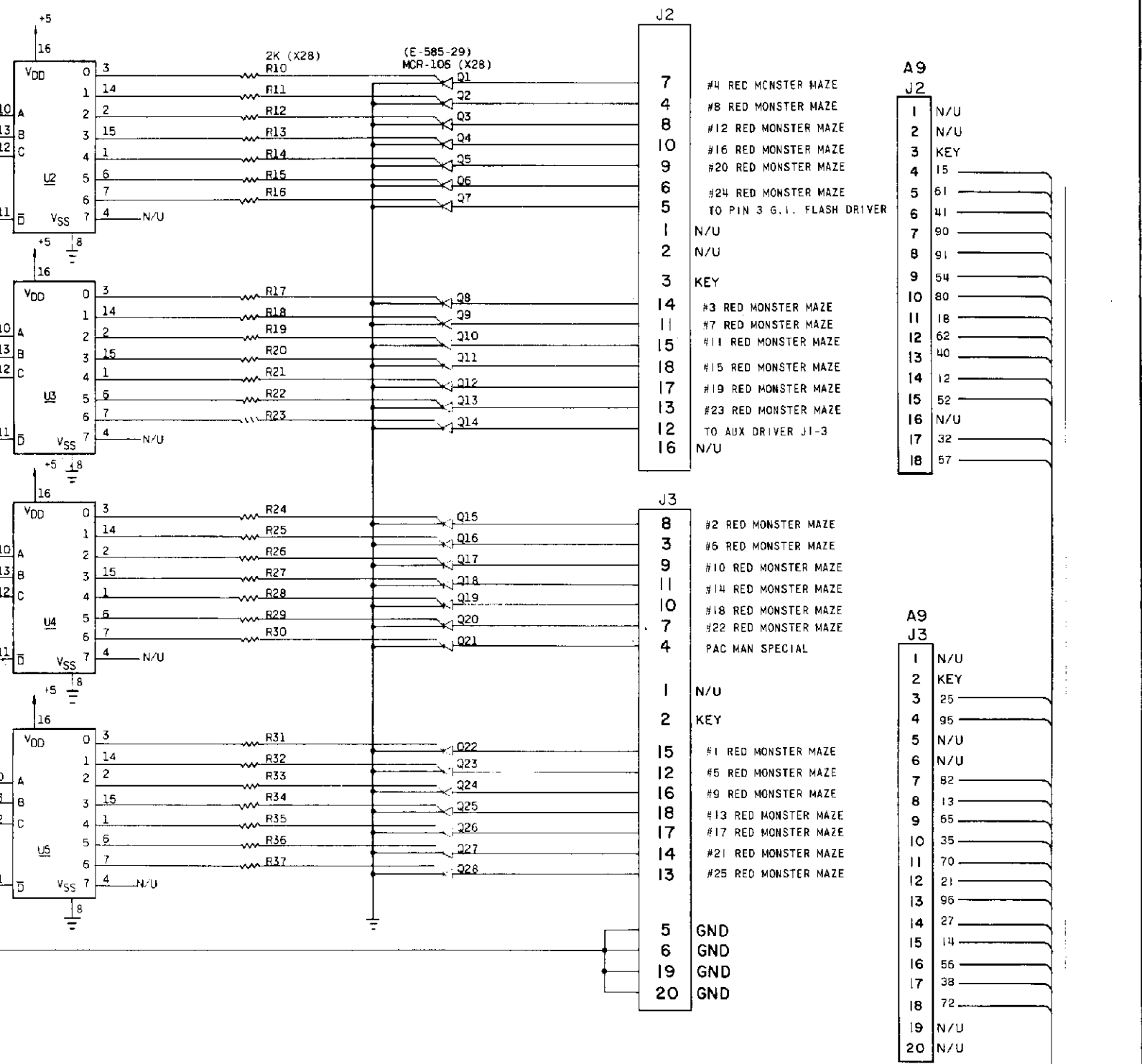
TO A-1187-37

TOP  
(LOOKING AT BACKSIDE OF INSERT)



- NOTES:
1. ALL RESISTORS ARE 1/4 W. ±5%.
  2. VOLTAGES SHOWN ARE FOR GAME UP CONDITIONS.
  3. \*INDICATES "AID" TEST POINT
  4. SCR'S ARE MCR-106-1, (E-585 29).
  5. PREFIX ALL REFERENCE DESIGNATIONS WITH "A9".

E-620-108)  
C14028B (X4)



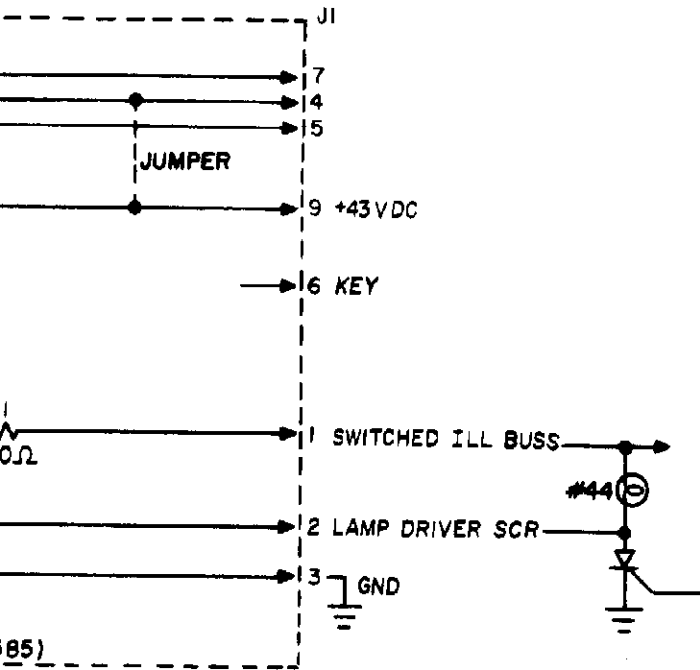
TO PANEL W-1192-37

TO INSERT

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REMOVE ALL BURRS TOLERANCES UNLESS OTHERWISE SPECIFIED FINISHES - EXCEPT HOLE DIA'S ANGLES - DO NOT SCALE DRAWING		DR. BY DATE 3-22-82 CK. BY DATE 3-22-82 AP'D BY J.D. DATE 4-15-82 AP'D BY DATE 4-15-82 FINISH HARDENING	
Bally MANUFACTURING CORP. 2640 BELMONT AVENUE CHICAGO, ILLINOIS #1283		DIE SIZE - CC - FT PER M - LBS PER M - NAME AUXILIARY LAMP DRIVER A9 MATERIAL PAC-MAN CODE	
ASSEMBLY NO. USED PART NO. W-1207-14 c		SCALE	



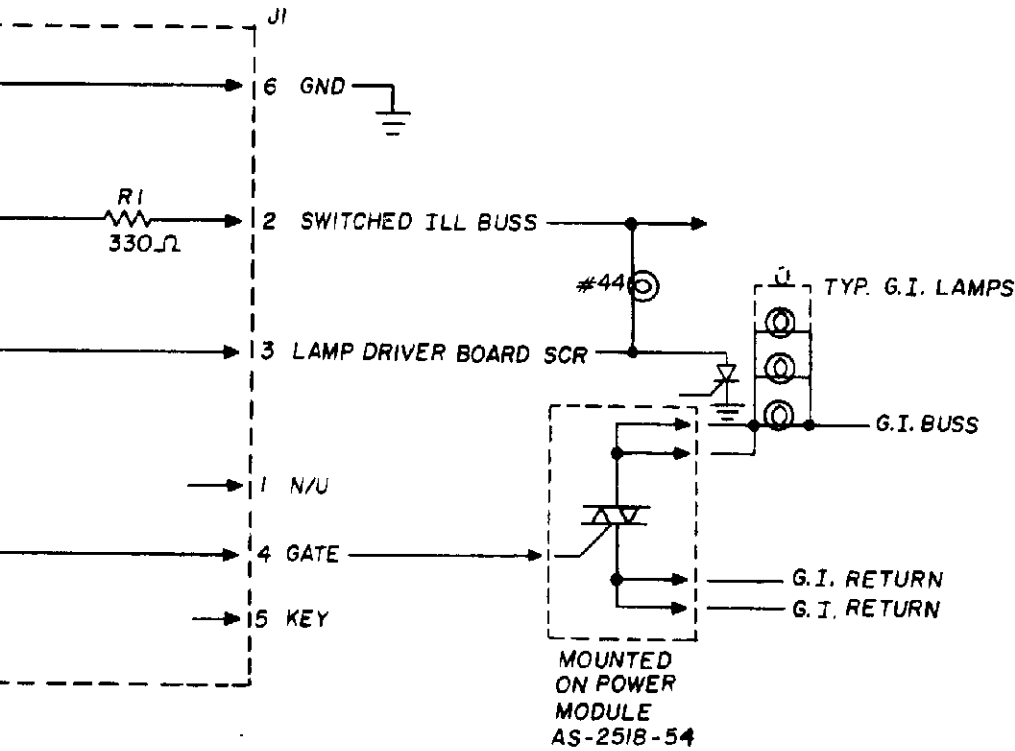
PART NO.  
W-1251 b



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REMOVE ALL BURRS		DR. BY FFC	DATE 1-21-81	<b>Bally MANUFACTURING CORP.</b> 2640 BELMONT AVENUE CHICAGO, ILLINOIS # 1220				
TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED FRACTIONS ± .008 DECIMALS ± .003 EXCEPT HOLE DIA.'S ANGLES ± 1/2°		CK. BY	DATE					PRINT CONTROL
DO NOT SCALE DRAWING		AP'D BY FFC	DATE 1-23-81	NAME SOLENOID EXPANDER (SCHEMATIC)		ASSEM. NO. USED AS-2518 -66		SCALE ✓
		FINISH: ✓		MATERIAL		PART NO. W-1251 b		
		HARDENING: ✓		CODE ✓				
Q. LET.	CHANGE	DATE	BY					

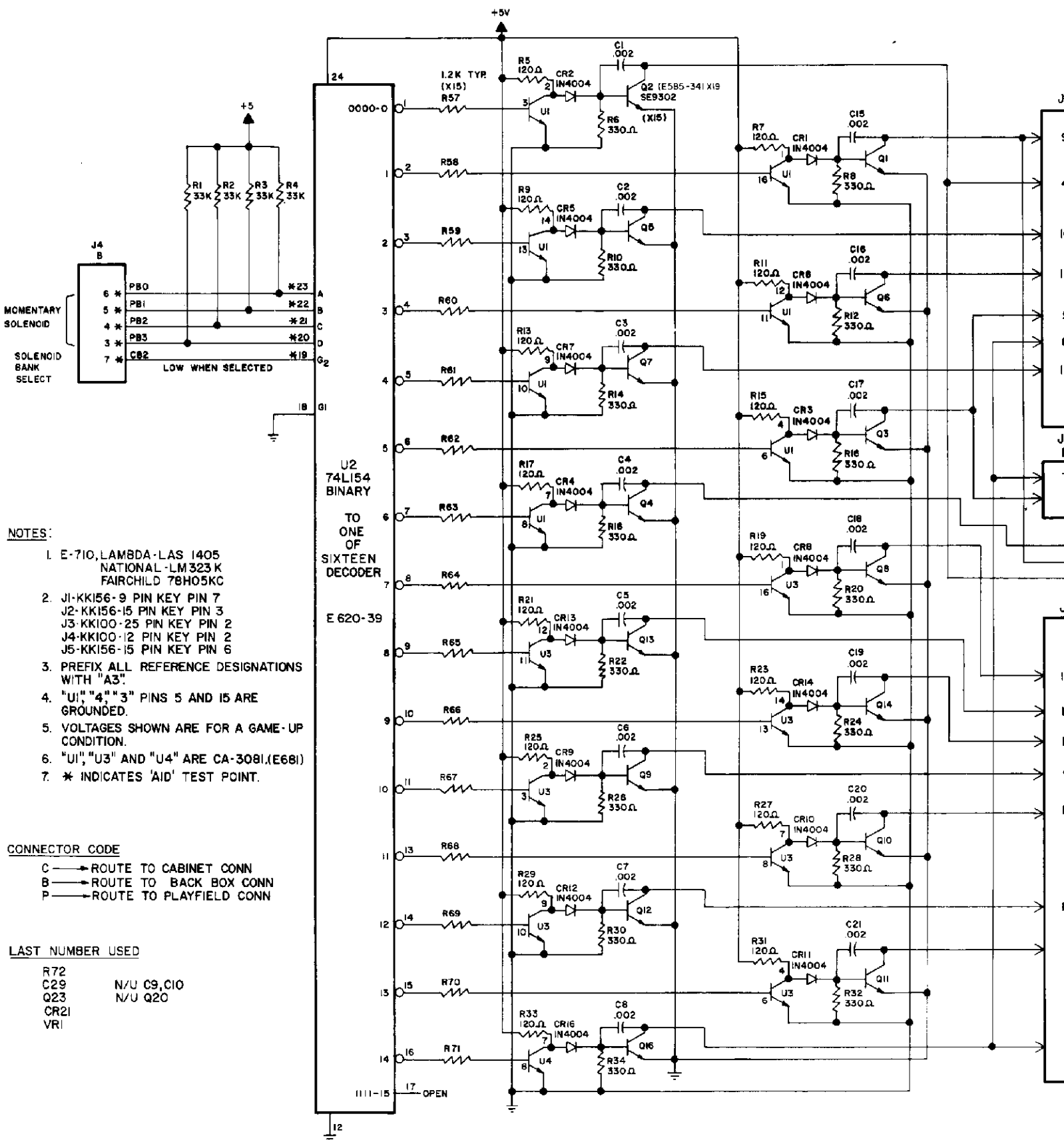




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REV.	CHANGE	DATE	BY

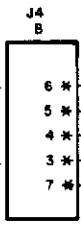
REMOVE ALL BURRS		DR. BY <i>EFC</i>	DATE 1-22-81	<b>Bally MANUFACTURING CORP.</b> 2640 BELMONT AVENUE CHICAGO, ILLINOIS #1219				
TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED		CK. BY	DATE					
FRACTIONS ± .008		AP'D BY <i>EFC</i>	DATE 1-22-81	PRINT CONTROL	DIE SIZE	C.C.	FT. PER M.	LBS. PER M.
DECIMALS ± .003		AP'D BY <i>EFC</i>	DATE 1-23-81	NAME			ASSEM. NO. USED	SCALE
EXCEPT HOLE DIA'S ANGLES ± 1/2°		FINISH: <input checked="" type="checkbox"/>		G I FLASHER (SCHEMATIC)			AS-2518-68	<input checked="" type="checkbox"/>
DO NOT SCALE DRAWING		HARDENING: <input checked="" type="checkbox"/>		MATERIAL			PART NO.	
				CODE			W-1253 b	



+5

+5V

MOMENTARY SOLENOID BANK SELECT



LOW WHEN SELECTED

24

0000-0

1

2

3

4

5

6

7

8

9

10

11

12

13

14

1111-15

U2  
74L154  
BINARY  
TO ONE  
OF  
SIXTEEN  
DECODER

E 620-39

12

NOTES:

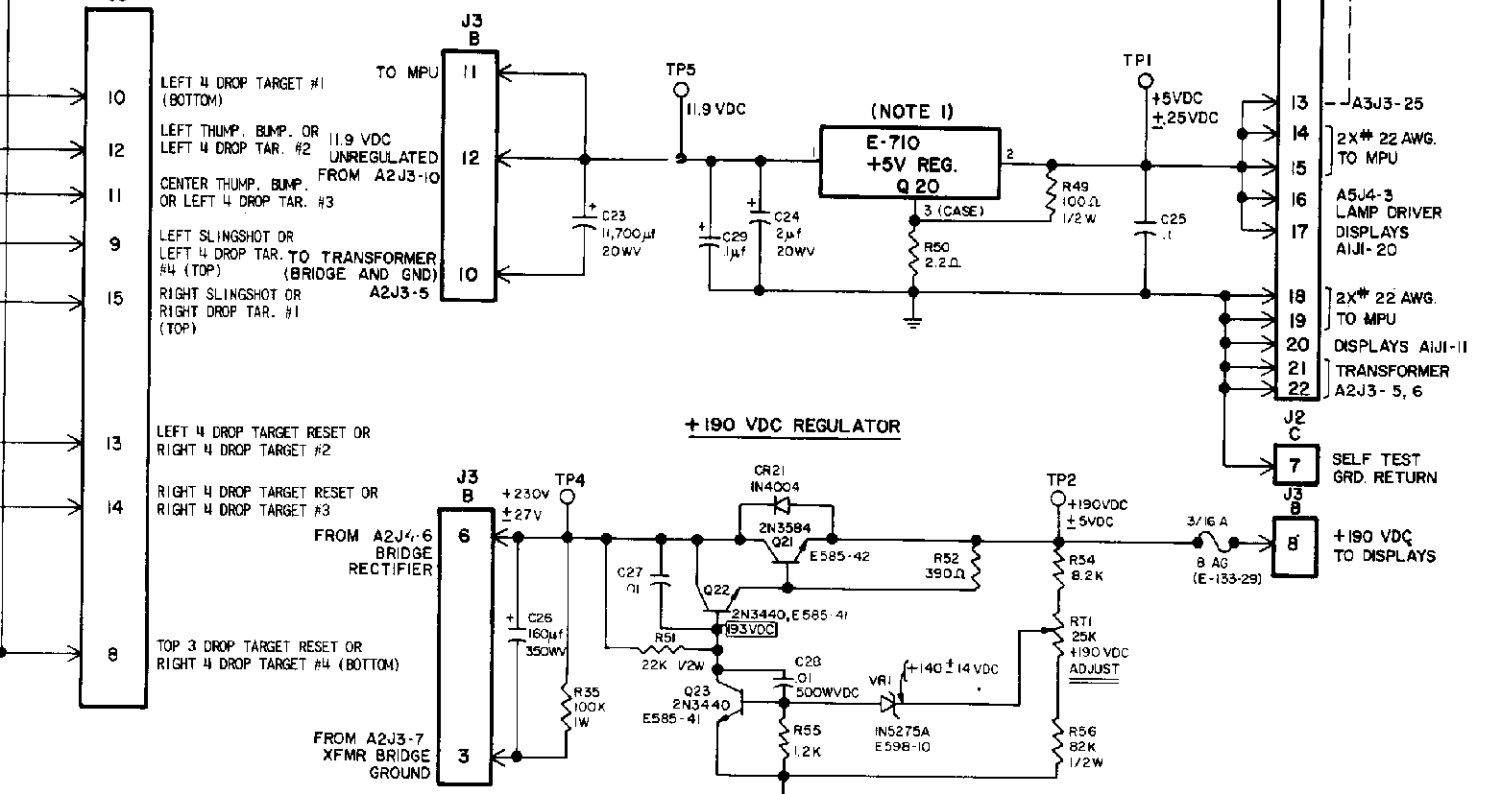
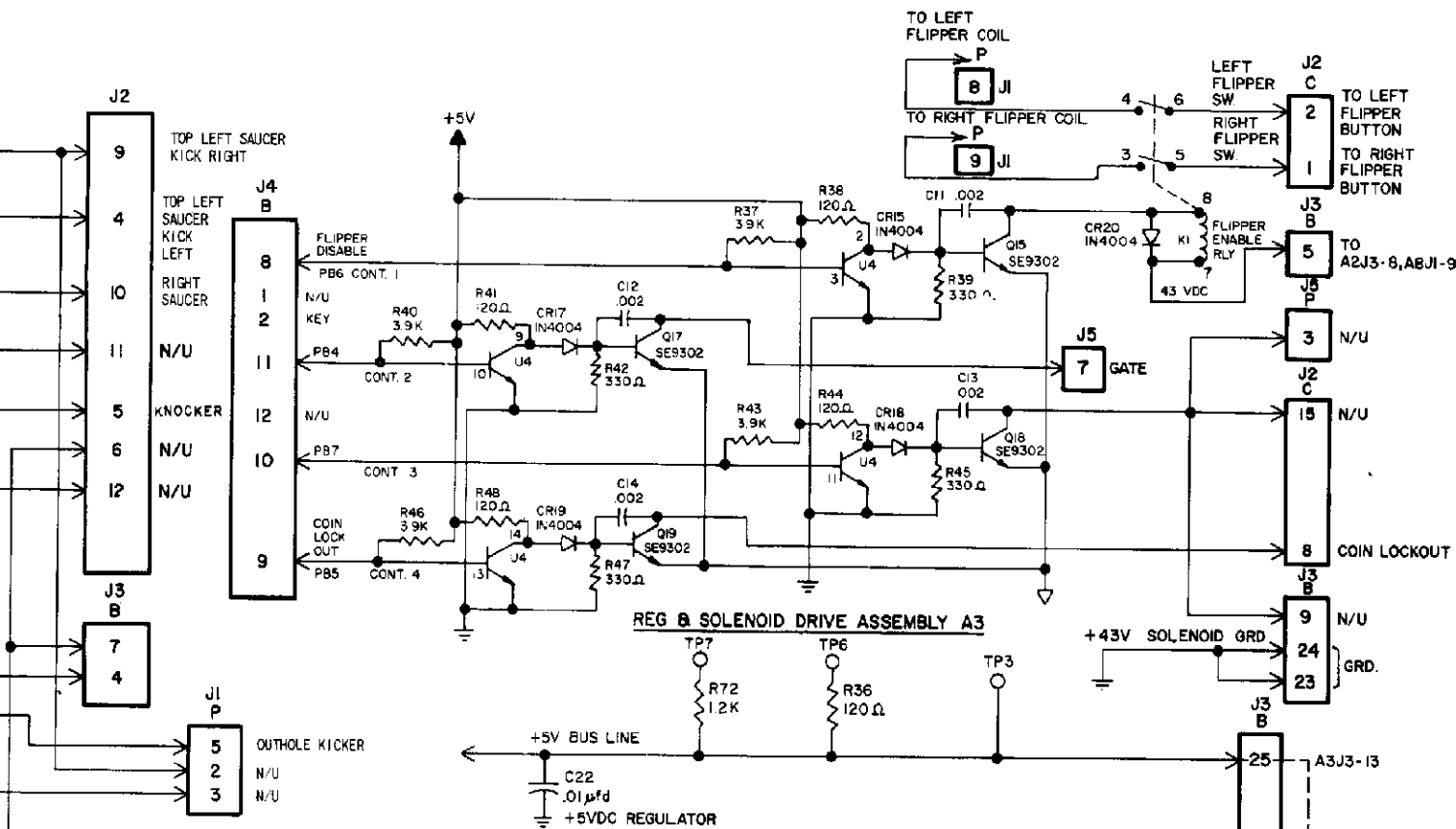
1. E-710, LAMBDA-LAS 1405 NATIONAL -LM323K FAIRCHILD 78H05KC
2. J1-KK156-9 PIN KEY PIN 7  
J2-KK156-15 PIN KEY PIN 3  
J3-KK100-25 PIN KEY PIN 2  
J4-KK100-12 PIN KEY PIN 2  
J5-KK156-15 PIN KEY PIN 6
3. PREFIX ALL REFERENCE DESIGNATIONS WITH "A3".
4. "U1", "U4", "U3" PINS 5 AND 15 ARE GROUNDED.
5. VOLTAGES SHOWN ARE FOR A GAME-UP CONDITION.
6. "U1", "U3" AND "U4" ARE CA-3081.(E681)
7. \* INDICATES 'AID' TEST POINT.

CONNECTOR CODE

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

LAST NUMBER USED

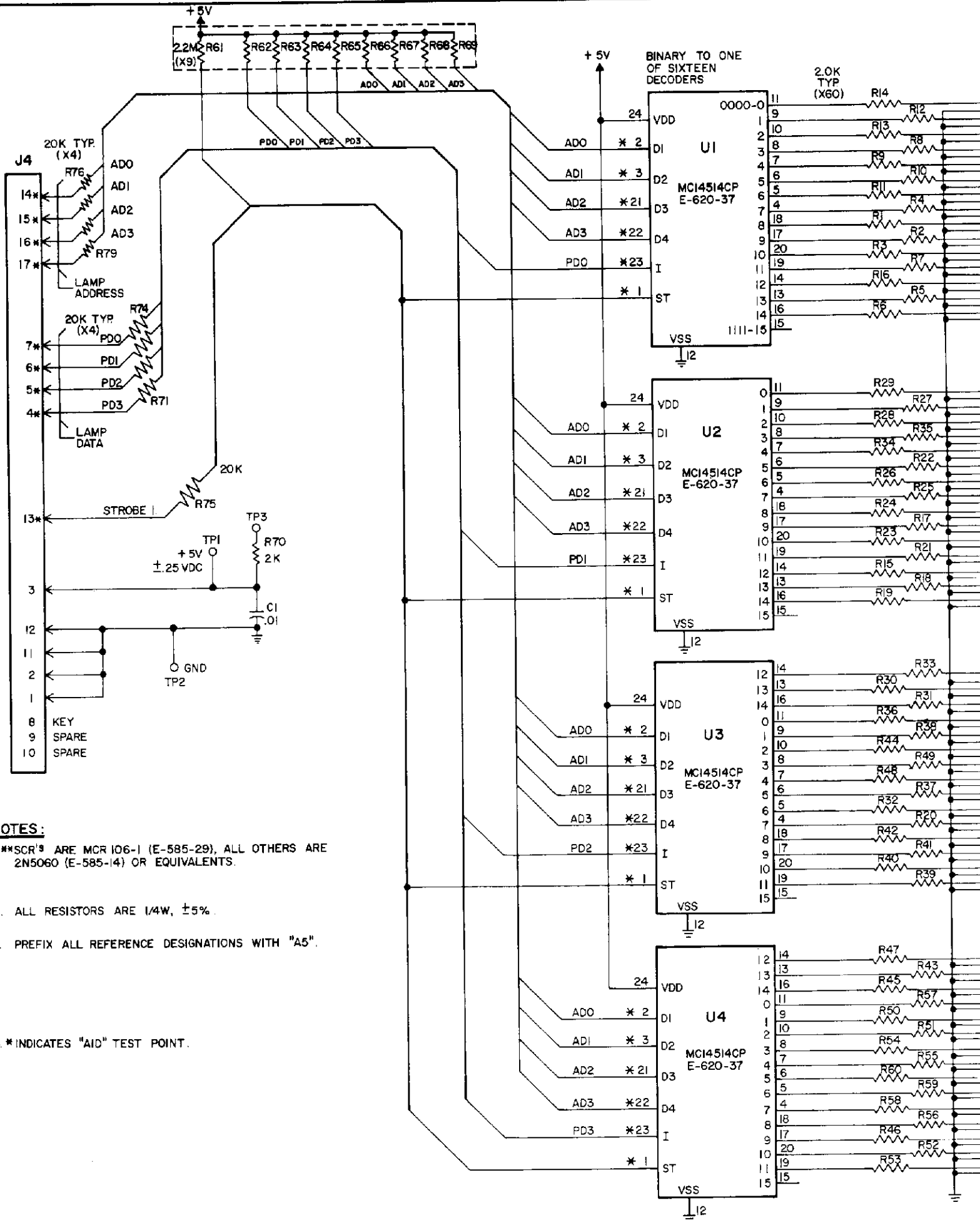
- R72
- C29 N/U C9, C10
- Q23 N/U Q20
- CR21
- VRI



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REMOVE ALL BURS		DATE: 5-22-82		DR. BY: A.V.		DATE: 5-22-82		DATE: 5-22-82		DATE: 5-22-82		DATE: 5-22-82		DATE: 5-22-82		DATE: 5-22-82		DATE: 5-22-82	
TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED:		FRACTIONS = 1/16		DECIMALS = 0.03		EXCEPT HOLE DIA. S		ANGLES = 90°		DO NOT SCALE DRAWING		HARDENING:		MATERIAL: PAC-MAN		CODE:		PART NO. W-1183-4	
NO. LET. CHANGE DATE BY		APPROVED BY: J.D.		DATE: 4-15-82		DATE: 4-15-82		DATE: 4-15-82		DATE: 4-15-82		DATE: 4-15-82		DATE: 4-15-82		DATE: 4-15-82		DATE: 4-15-82	
BALLY MANUFACTURING CORP.		2640 BELMONT AVENUE		CHICAGO, ILLINOIS		#1283		DIE SIZE:		C.C.:		FT. PER M.:		LBS. PER M.:		ASSEM. NO. USED:		SC:	
NAME: SOLENOID DRIVER VOLTAGE REGULATOR SCHEMATIC		MATERIAL: PAC-MAN		CODE:		PART NO. W-1183-4		ASSEMBLY NO. USED:		SC:		DATE:		BY:		CHECKED:		APPROVED:	





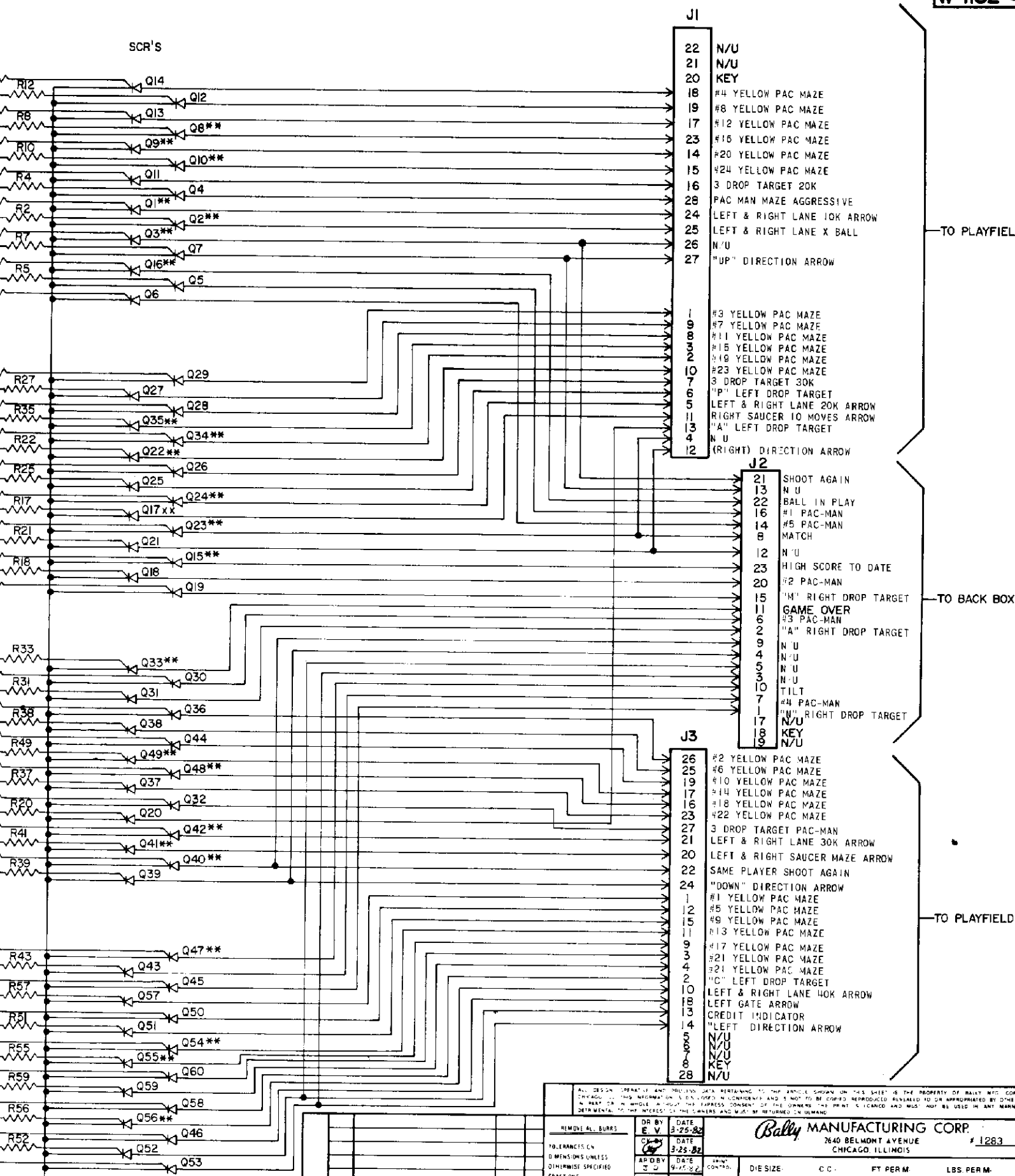
**NOTES:**  
 1. \*\*SCR'S ARE MCR 106-1 (E-585-29), ALL OTHERS ARE 2N5060 (E-585-14) OR EQUIVALENTS.

2. ALL RESISTORS ARE 1/4W, ±5%.

3. PREFIX ALL REFERENCE DESIGNATIONS WITH "A5".

4. \* INDICATES "AID" TEST POINT.

REV	DEPT	DESCRIPTION	TOOL NO



- J1**
- 22 N/U
  - 21 N/U
  - 20 KEY
  - 18 #4 YELLOW PAC MAZE
  - 19 #8 YELLOW PAC MAZE
  - 17 #12 YELLOW PAC MAZE
  - 23 #16 YELLOW PAC MAZE
  - 14 #20 YELLOW PAC MAZE
  - 15 #24 YELLOW PAC MAZE
  - 16 3 DROP TARGET 20K
  - 28 PAC MAN MAZE AGGRESSIVE
  - 24 LEFT & RIGHT LANE 10K ARROW
  - 25 LEFT & RIGHT LANE X BALL
  - 26 N/U
  - 27 "UP" DIRECTION ARROW
- J2**
- 21 SHOOT AGAIN
  - 13 N U
  - 22 BALL IN PLAY
  - 16 #1 PAC-MAN
  - 14 #5 PAC-MAN
  - 8 MATCH
  - 12 N U
  - 23 HIGH SCORE TO DATE
  - 20 #2 PAC-MAN
  - 15 "M" RIGHT DROP TARGET
  - 11 GAME OVER
  - 6 #3 PAC-MAN
  - 2 "A" RIGHT DROP TARGET
  - 9 N U
  - 4 N U
  - 5 N U
  - 3 N U
  - 10 TILT
  - 7 #4 PAC-MAN
  - 1 "N" RIGHT DROP TARGET
  - 17 N/U
  - 18 KEY
  - 19 N/U
- J3**
- 26 #2 YELLOW PAC MAZE
  - 25 #6 YELLOW PAC MAZE
  - 19 #10 YELLOW PAC MAZE
  - 17 #14 YELLOW PAC MAZE
  - 16 #18 YELLOW PAC MAZE
  - 23 #22 YELLOW PAC MAZE
  - 27 3 DROP TARGET PAC-MAN
  - 21 LEFT & RIGHT LANE 30K ARROW
  - 20 LEFT & RIGHT SAUCER MAZE ARROW
  - 22 SAME PLAYER SHOOT AGAIN
  - 24 "DOWN" DIRECTION ARROW
  - 1 #1 YELLOW PAC MAZE
  - 12 #5 YELLOW PAC MAZE
  - 15 #9 YELLOW PAC MAZE
  - 11 #13 YELLOW PAC MAZE
  - 9 #17 YELLOW PAC MAZE
  - 3 #21 YELLOW PAC MAZE
  - 4 #21 YELLOW PAC MAZE
  - 2 "C" LEFT DROP TARGET
  - 10 LEFT & RIGHT LANE 40K ARROW
  - 18 LEFT GATE ARROW
  - 13 CREDIT INDICATOR
  - 14 "LEFT" DIRECTION ARROW
  - 5 N/U
  - 6 N/U
  - 7 N/U
  - 8 N/U
  - 28 KEY

TO PLAYFIELD

TO BACK BOX

TO PLAYFIELD

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REMOVE ALL BURRS

TOLERANCES UNLESS OTHERWISE SPECIFIED

FRACTIONS -

DECIMALS -

EXCEPT HOLES DIA & ANGLES -

DO NOT SCALE DRAWING

DR BY DATE  
E. V. 3-25-82

CHK BY DATE  
3-25-82

AP'D BY DATE  
3-30-82

AP'D BY DATE  
4-11-82

FINISH

HARDENING

**Bally MANUFACTURING CORP.**  
7640 BELMONT AVENUE  
CHICAGO, ILLINOIS # 1283

DIE SIZE: CC. FT PER M. LBS PER M.

NAME: **A5 LAMP DRIVER SCHEMATIC**

MATERIAL: **PAC-MAN**

ASSEM NO. USED

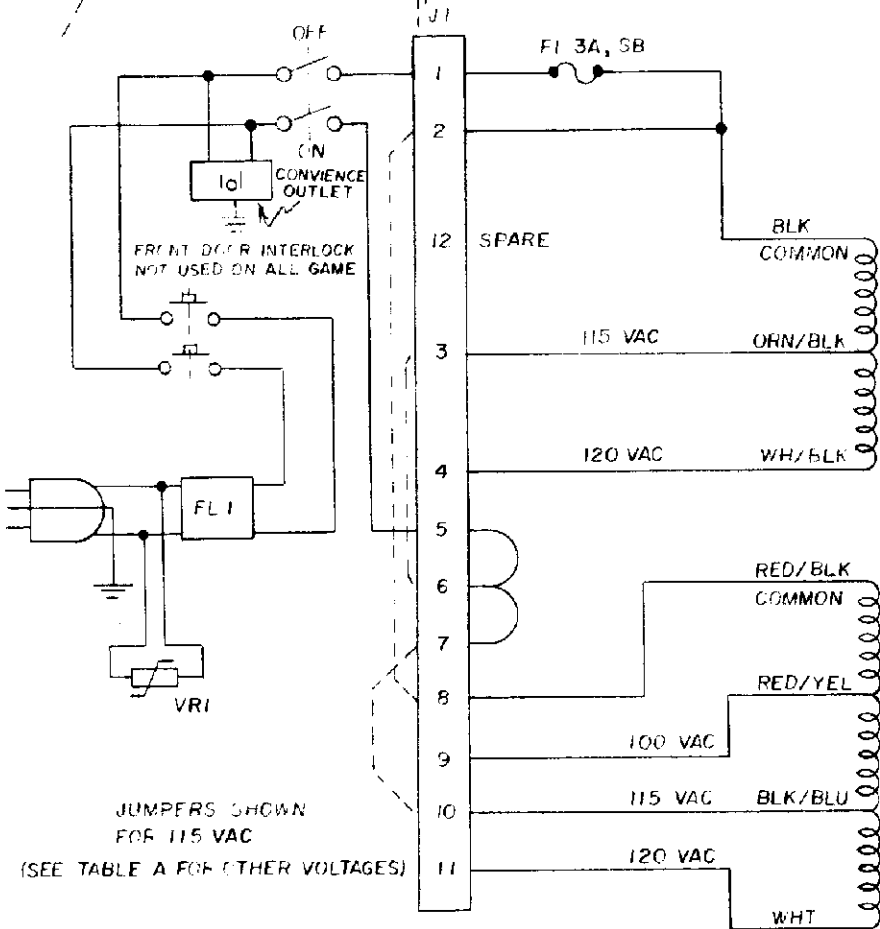
PART NO. **W-1182-42**

NO.	LET.	CHANGE	DATE	BY

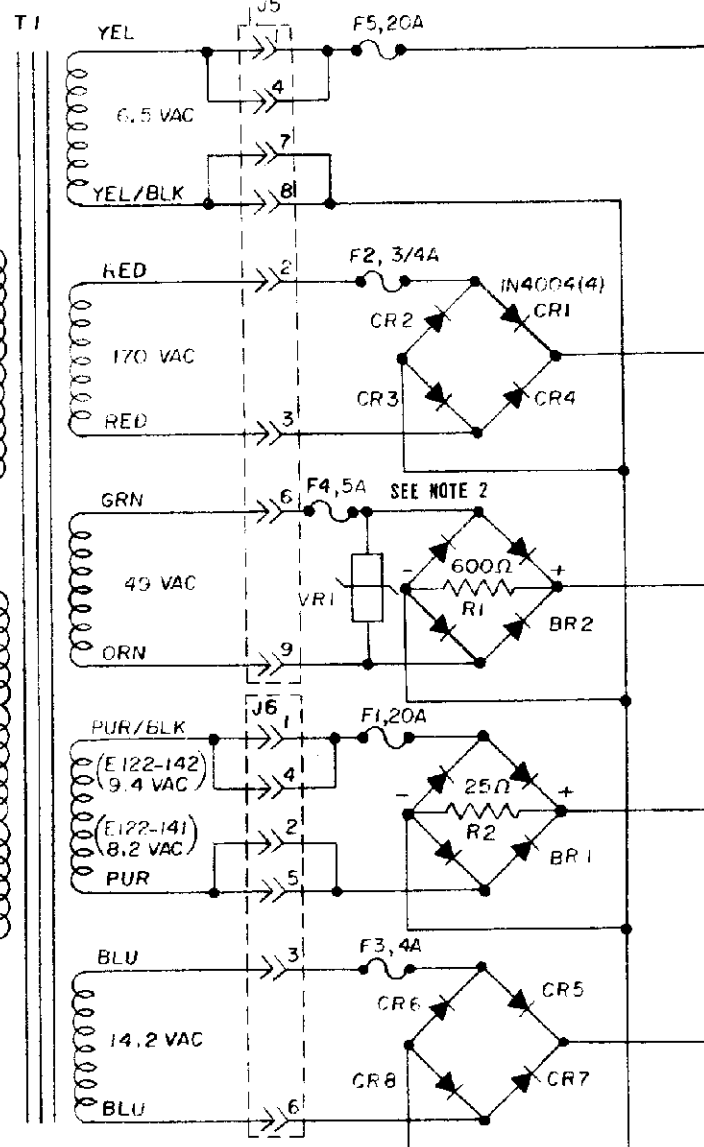
AS 2877 -X TRANSFORMER POWER ASSEMBLY

SEE NOTE 1  
AS-3071-X  
TRANSFORMER ASSY.

CABINET WIRING



NOTE 1



NOTES

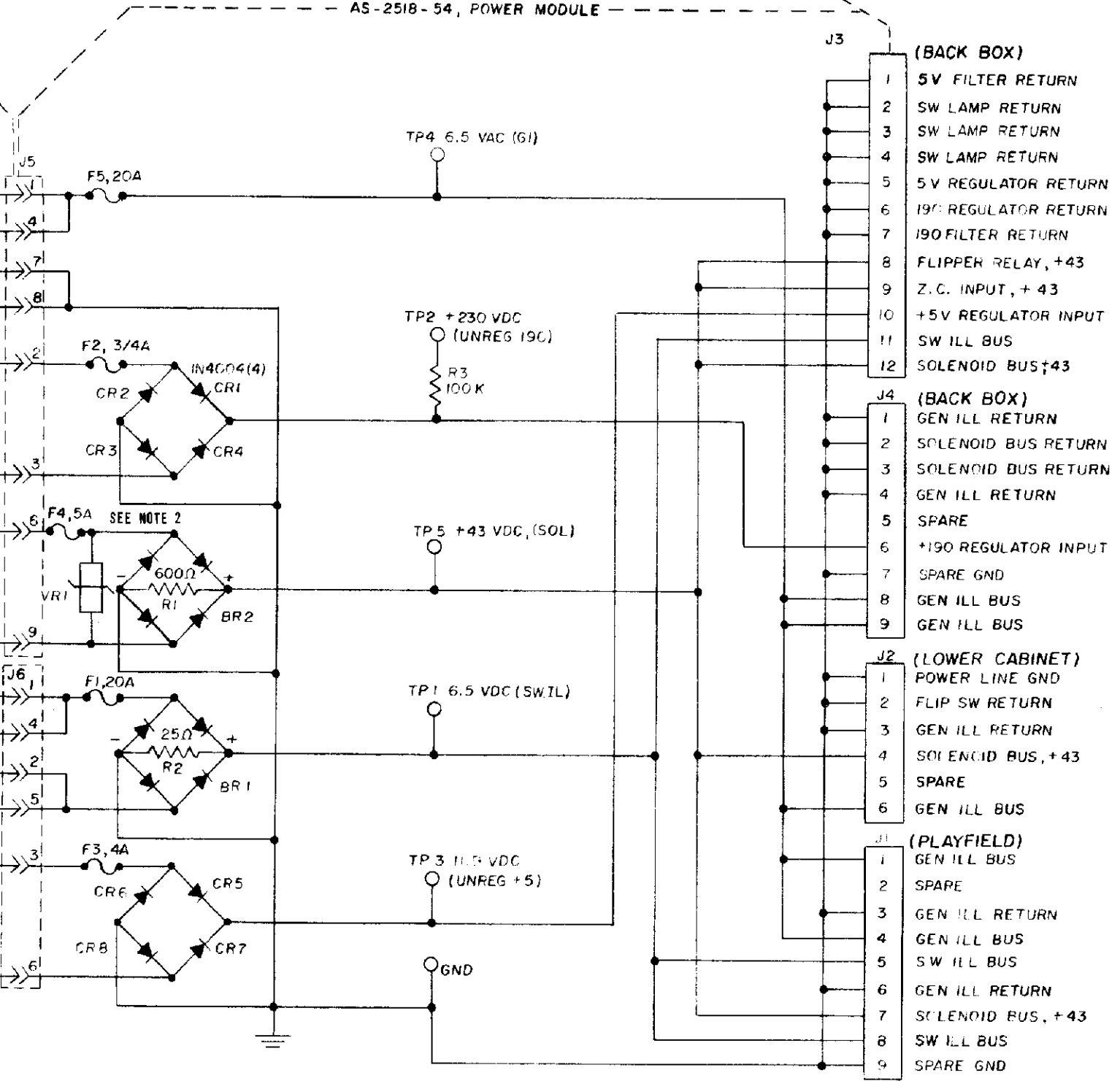
1. SEE GAME MANUAL OF SPECIFIC GAME FOR CORRECT DASH / PART NUMBER.
2. ALL GAMES WITH 4 OR MORE FLIPPERS USE 7A.

TABLE "A"

115 VAC, 2-8, 3-6, 7-10
120 VAC, 2-8, 4-6, 7-11
220 VAC, 4-8, 7-9
240 VAC, 4-8, 7-11


ASSEMBLY

AS-2518-54, POWER MODULE



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CHANGE	DATE	BY

REMOVE ALL BURRS	
DR. BY	DATE
FFC	7-10-80
CK. BY	DATE
AMCR	7-11-80
AP'D BY	DATE
AP'D BY	DATE
FINISH:	
HARDENING:	

**Bally MANUFACTURING CORP.**  
2640 BELMONT AVENUE  
CHICAGO, ILLINOIS

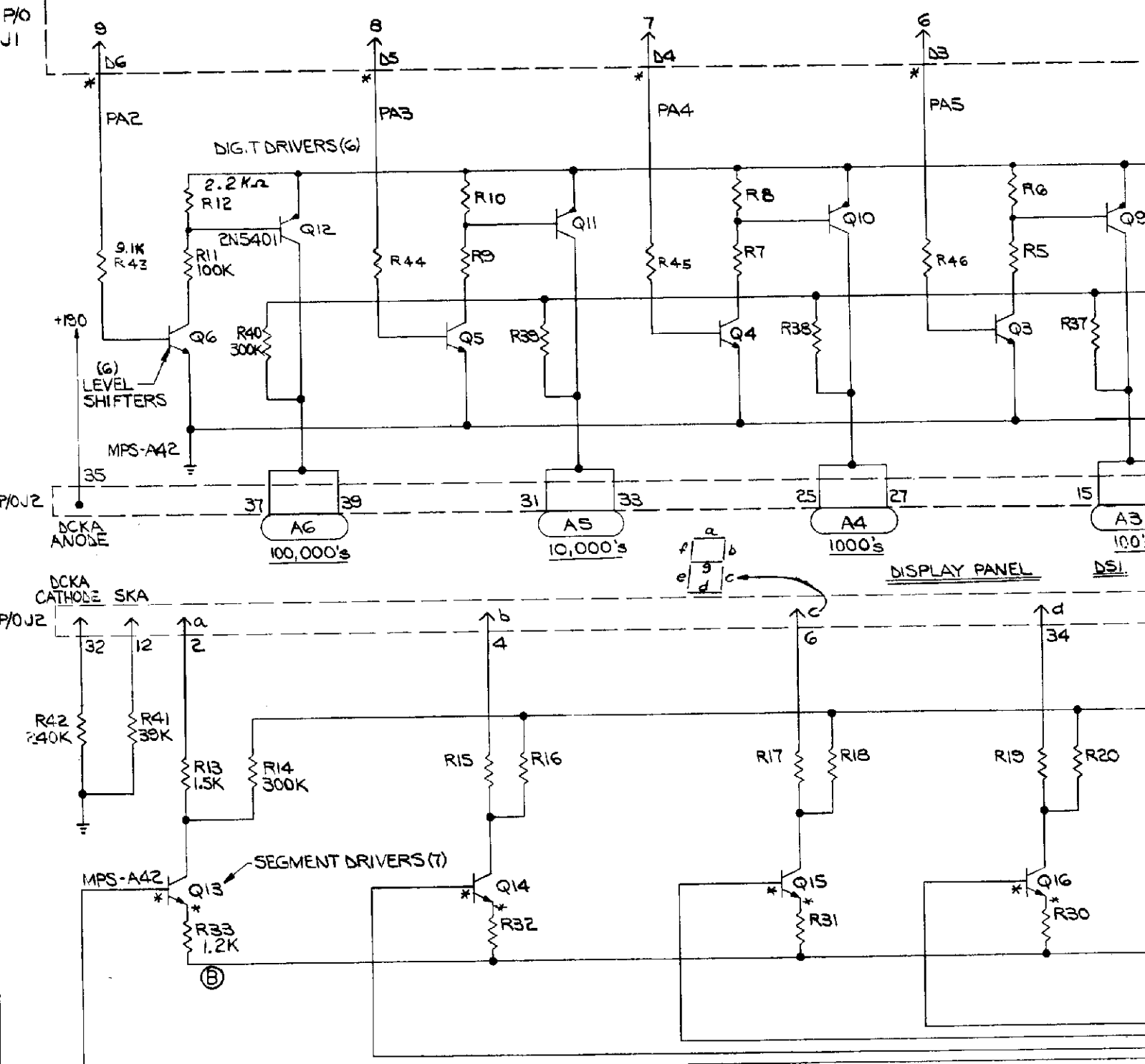
# 1196

FEB 20 1981

PRINT CONTROL	DIE SIZE	C.C.	FT. PER M.	LBS. PER M.
NAME	POWER SUPPLY SCHEMATIC			ASSEM. NO. USED
MATERIAL				PART NO.
CODE				W-1233

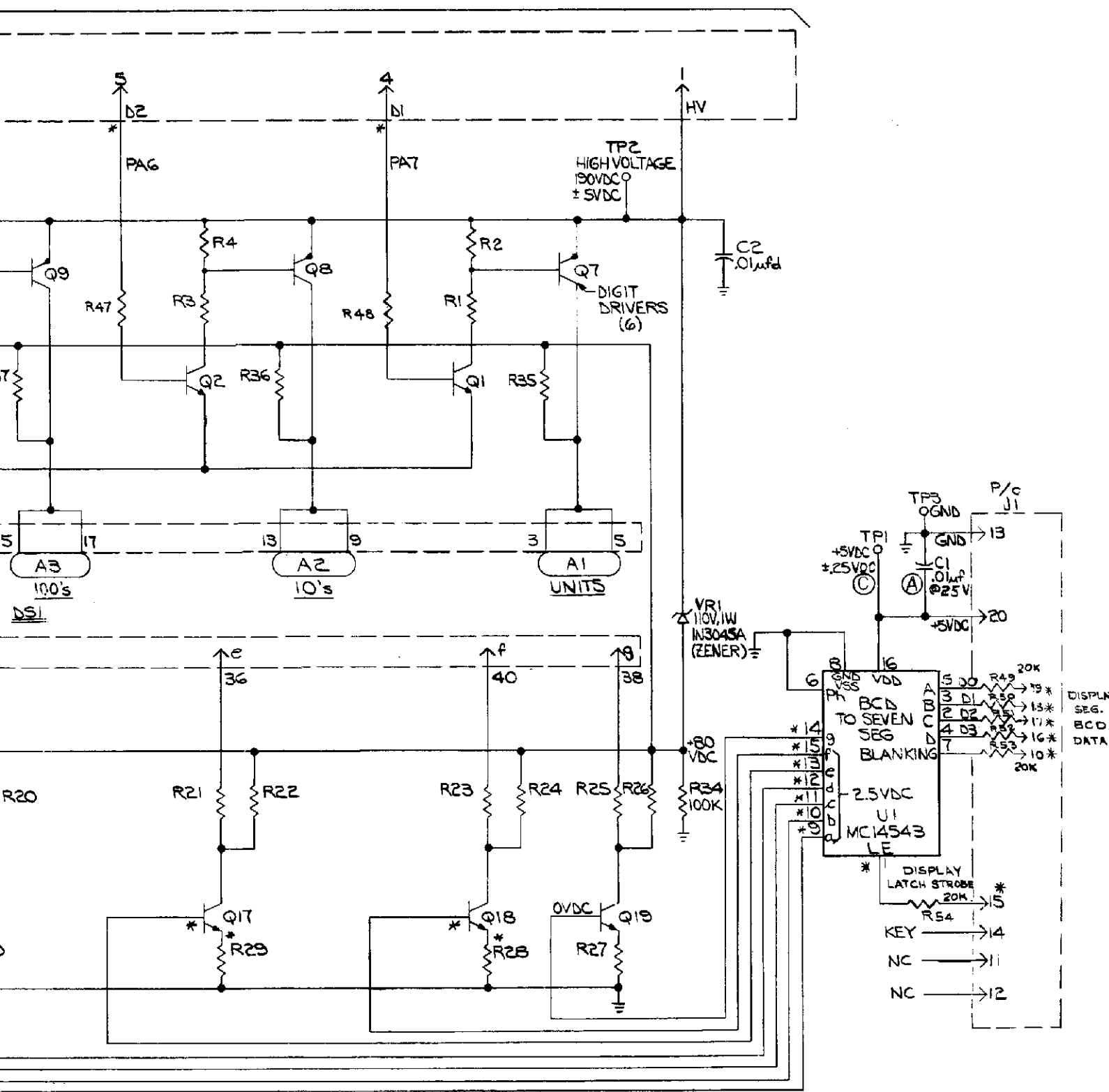
DO NOT SCALE DRAWING

DISPLAY DIGIT ENABLE



NOTES:

1. UNLESS OTHERWISE SPECIFIED ALL RESISTORS ARE  $\pm 5\%$ ,  $1/4W$ .
2. PREFIX ALL REFERENCE DESIG. WITH ASSEMBLY REFERENCE DESIG. "A1"
3. \* INDICATES 'AID' TEST POINT.

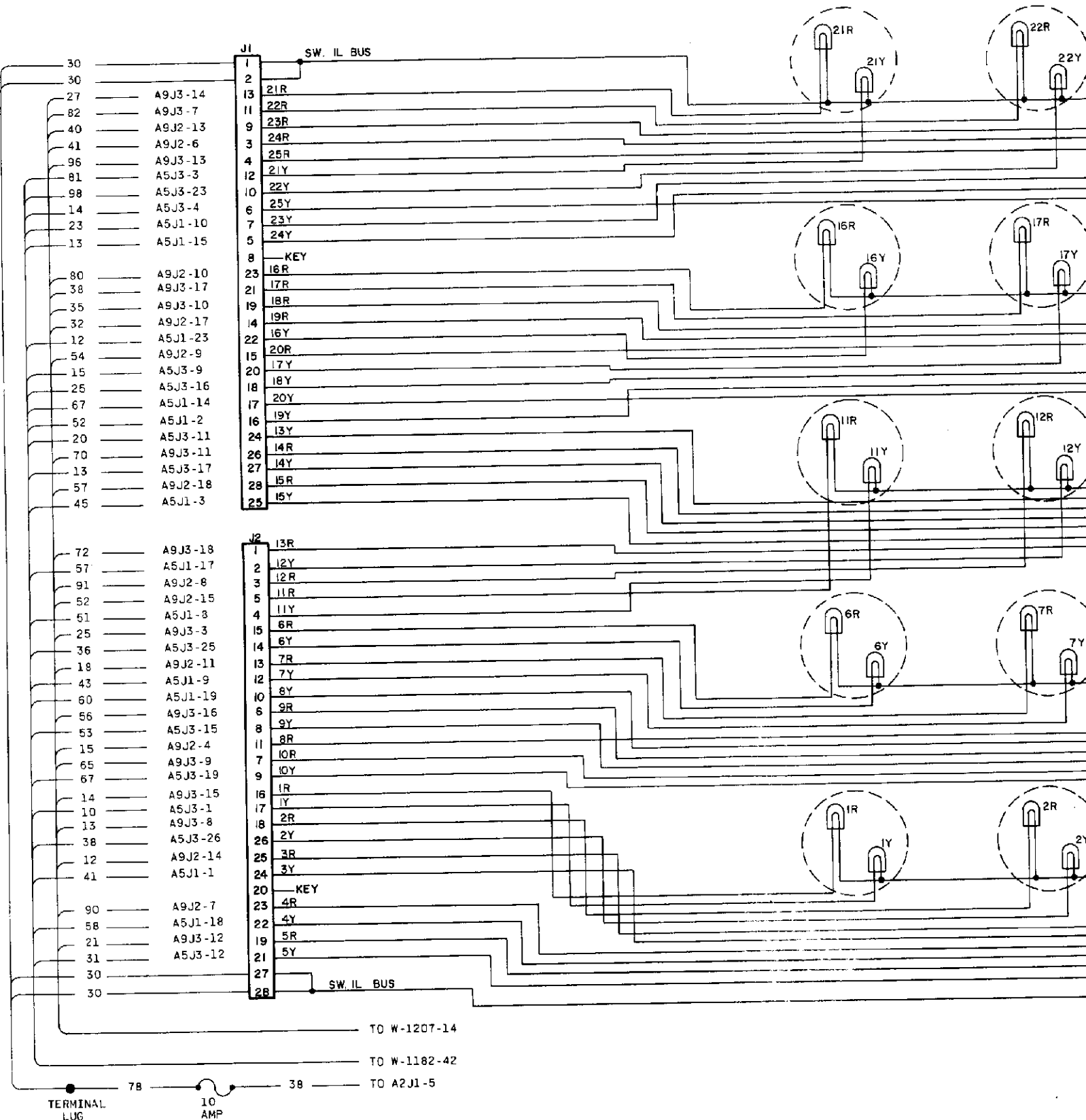


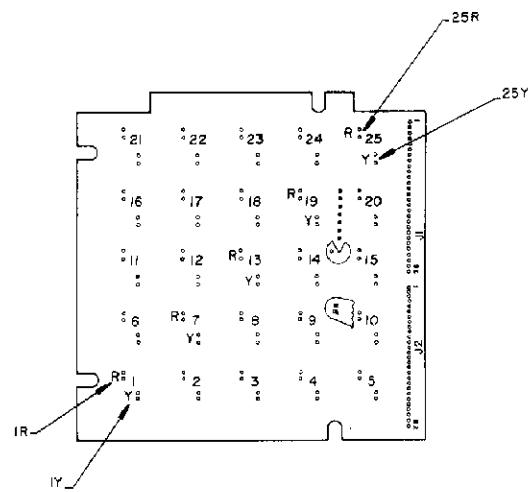
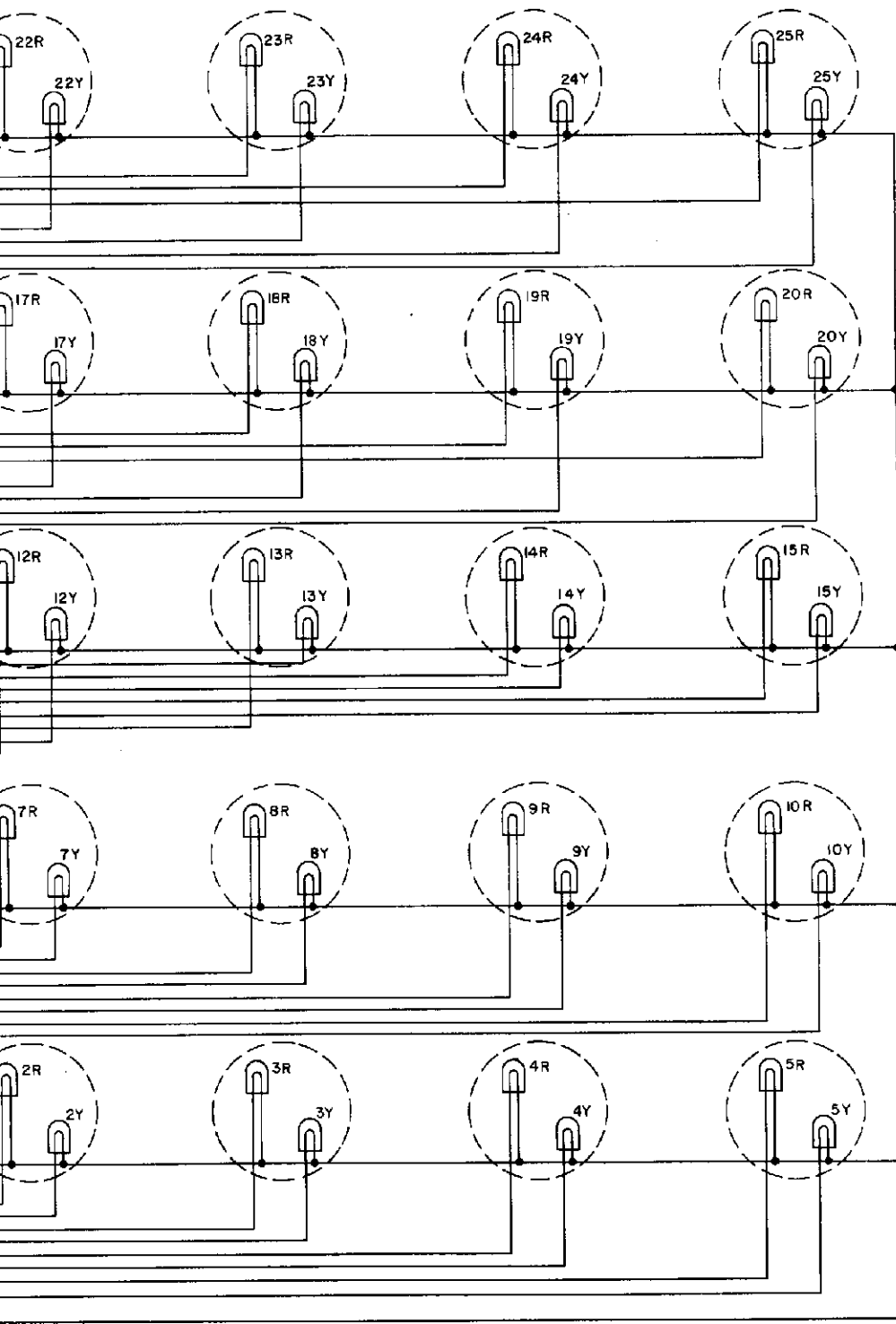
DIE SIZE — C.C. — FT. PER M — LBS. PER M —

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REMOVE ALL BURRS TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED FRACTIONS: DECIMALS: ANGLES: DO NOT SCALE DRAWING		DE. BY: <i>DS</i> DATE: 7/22 DC. BY: <i>DS</i> DATE: 7/8/77 DR. BY: <i>DS</i> DATE: 10/17/77 PRINT CONTROL: <i>DS</i> HARDENING:	Bally MANUFACTURING CORP. #1120-E 2440 BELMONT AVENUE CHICAGO, ILLINOIS M. VESTER	NAME: 6 DIGIT DISPLAY BOARD SCHEMATIC MATERIAL: ASSEM. NO. USED ON: AS-251B-21 PART NO. W-1184-1c
---	--	--	--	--

NO.	LEV.	CHANGE	DATE	BY	CL.
3	C	WAS VAC	6-20-80	J.D.	
2	B	WAS 1K	3-28-80	J.D.	
1	A	WAS 500V	4-15-79	J.D.	



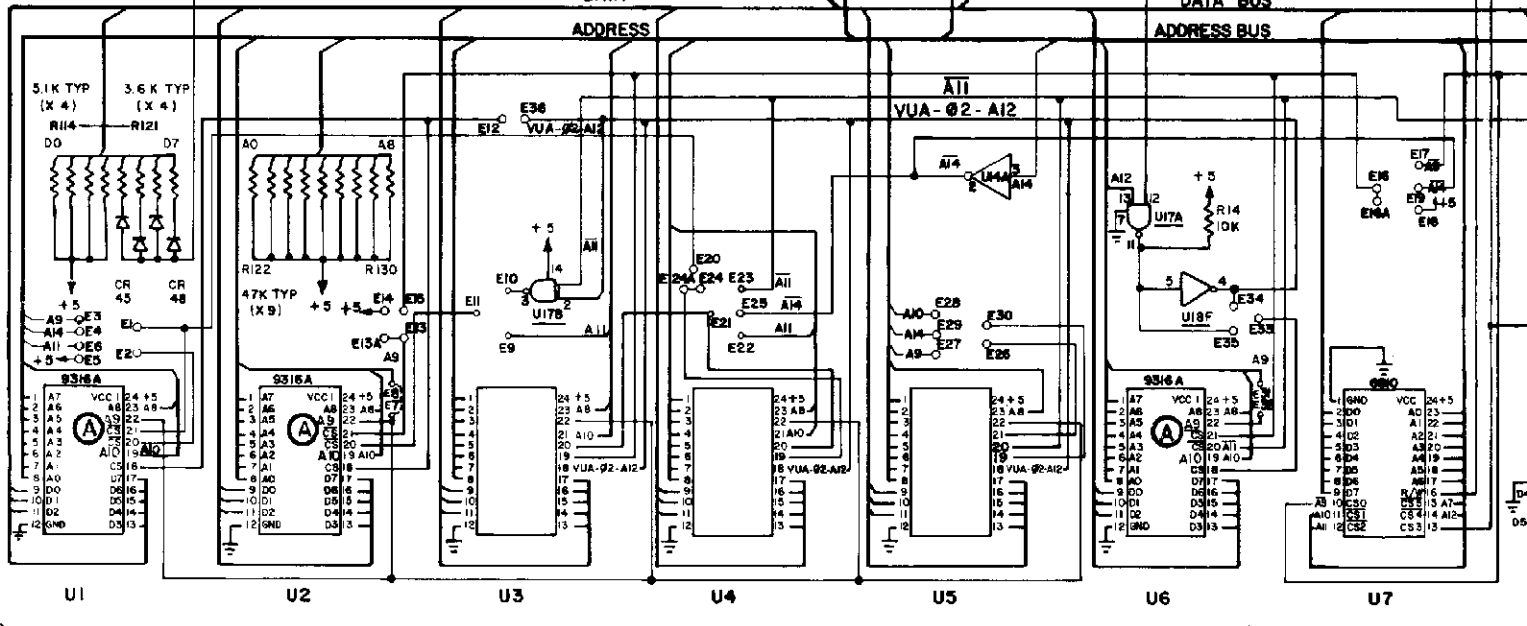
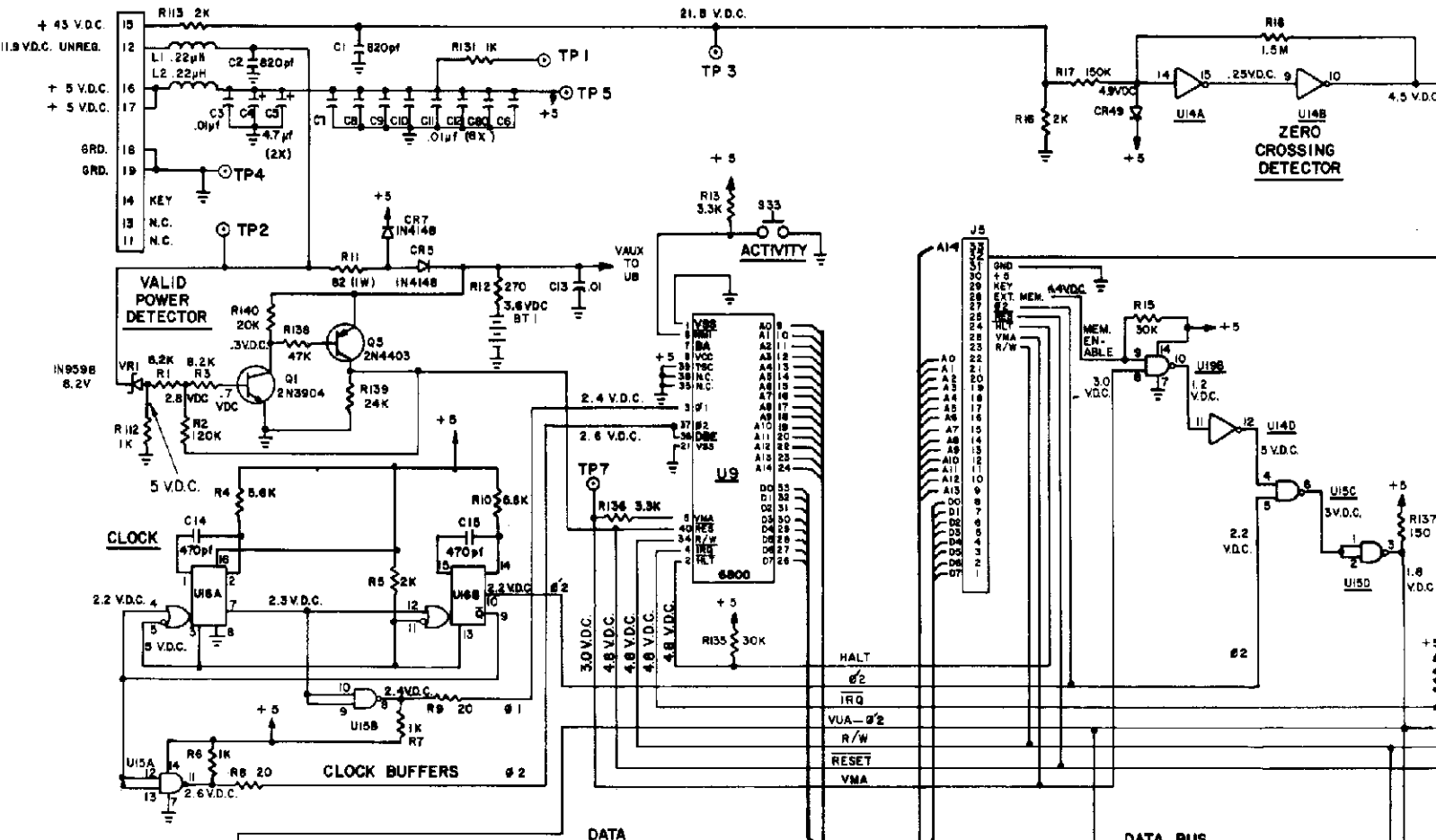


BOTTOM SIDE OF PAC-LITE MATRIX  
(as seen from underside of playfield)

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REMOVE ALL BURRS  TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED FRACTIONS = 1/32 DECIMALS = 0.01 EXCEPT HOLE DIA'S ANGLES = 1:1		DR. BY FFC CK. BY AMCR AP'D BY AP'D BY FINISH HARDENING		DATE 2-28-68 DATE 3-3-68 DATE DATE DATE	
NO. LET. CHANGE DATE BY		Bally MANUFACTURING CORP. 2840 BELMONT AVENUE CHICAGO, ILLINOIS # 1283		PRINT CONTROL DIE SIZE: C.C. FT. PER M. LBS. PER M.	
		NAME PAC-LITE MATRIX (SCHEMATIC)		ASSEM NO USED AS-2518-98	
		MATERIAL		PART NO. W-1262	
		CODE		SCALE	



P/O J4

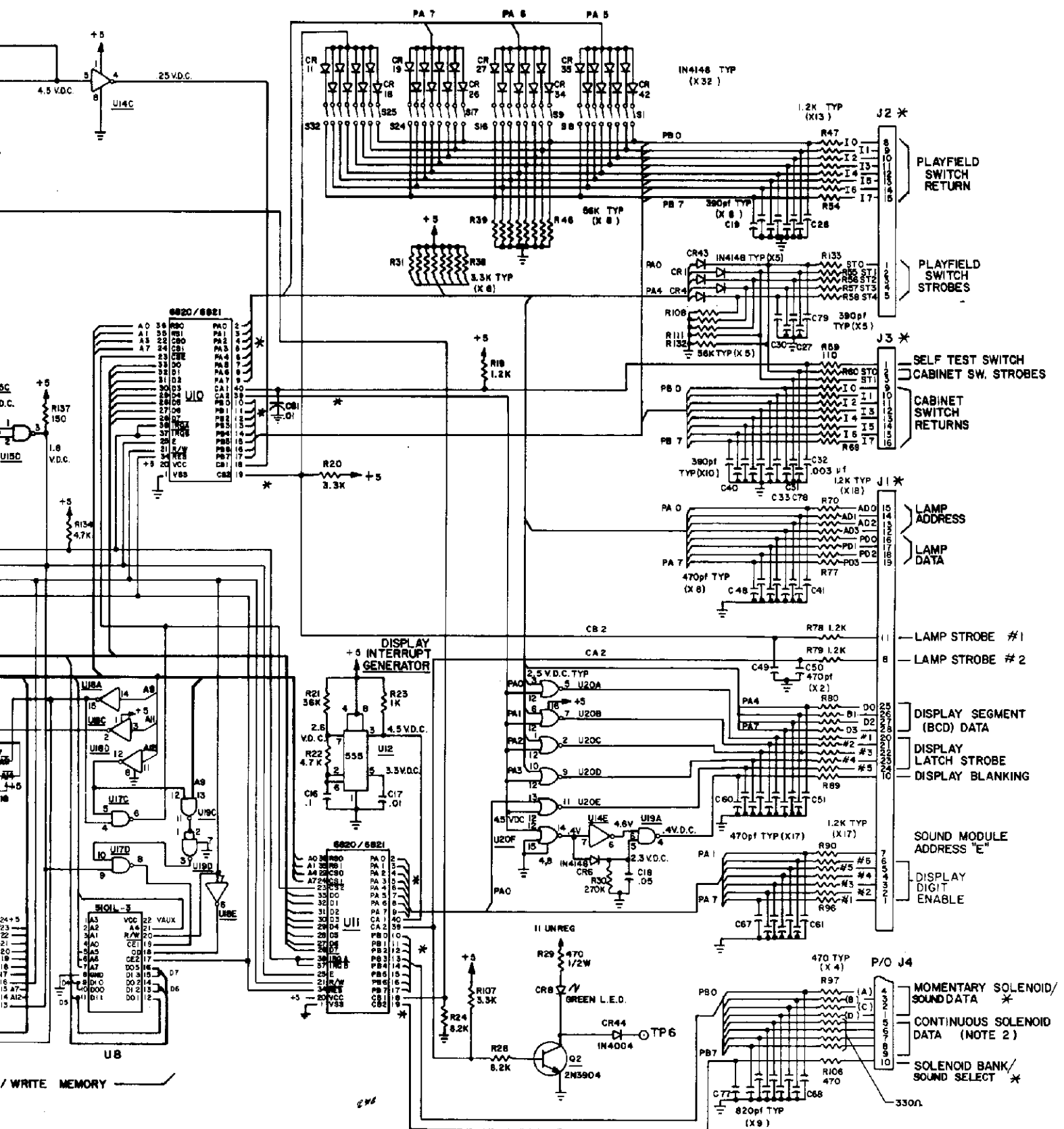


READ ONLY MEMORY  
(NOTE 4)

READ / WRITE M

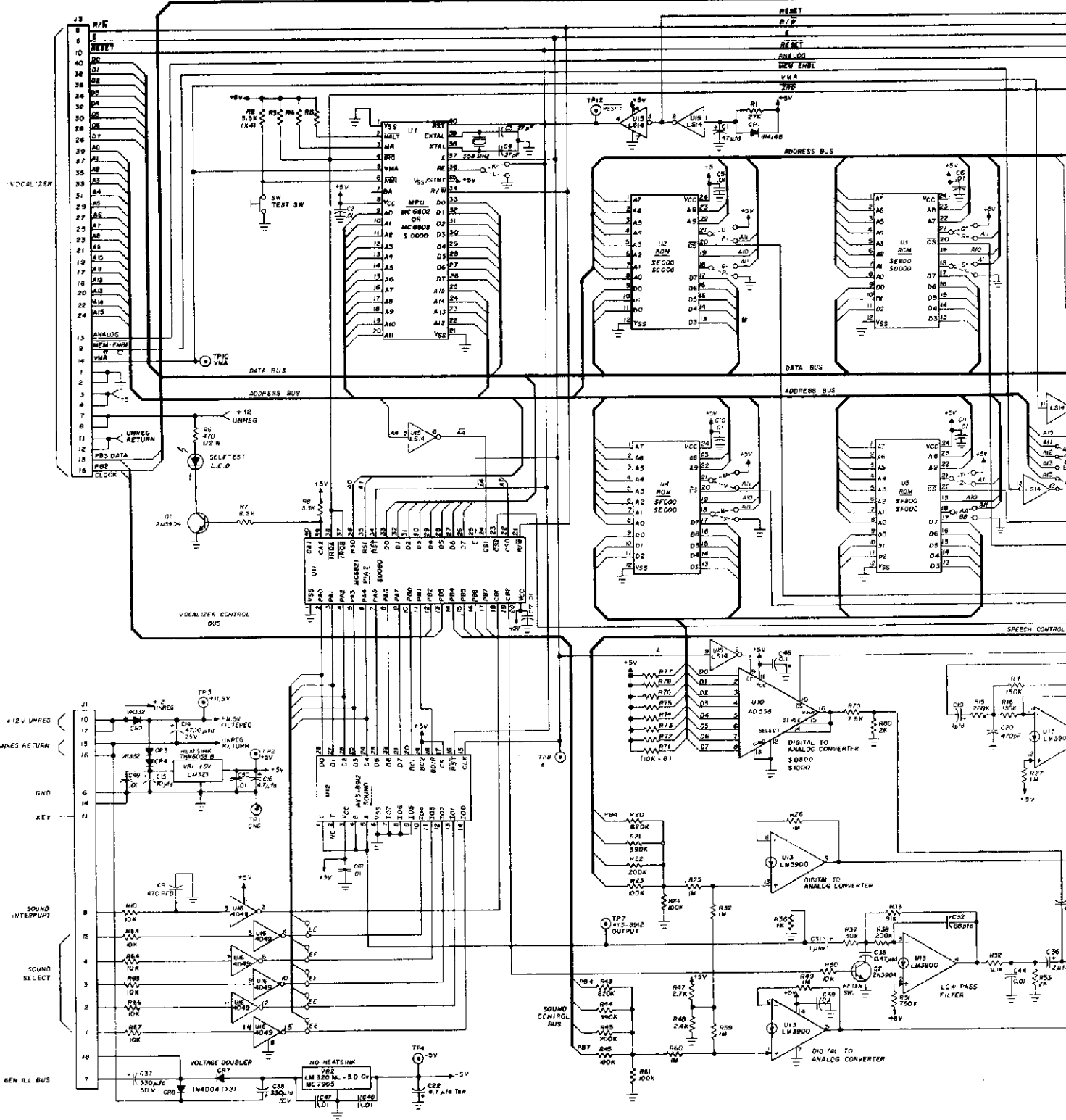
NOTES

1. \* INDICATES "AID" TEST POINT.
2. REMOVE A3J4 BEFORE USING AS AID TEST POINT
3. PREFIX ALL REFERENCE DESIGNATIONS WITH "A4"
4. EXACT CHIP COMPLEMENT USED IN SOCKETS U1 THRU U6 CAN VARY FOR DIFFERENT GAMES AND PRODUCTION LOTS. TABLES OF MEMORY CHIPS AND CORRESPONDING JUMPERS FOR DIFFERENT GAMES AVAILABLE FROM BALLY FIELD SERVICE DEPARTMENT.



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REMOVE ALL BURNS		DR BY DATE	Bally MANUFACTURING CORP.	
EV BY DATE	5-11-78	CHK BY DATE	2640 BELMONT AVENUE	
EGM BY DATE	5-15-78	CHK T1 BY DATE	CHICAGO, ILLINOIS	
PRD BY DATE	7-1-78	CHK T2 BY DATE	1119-E	
ASBY DATE	7-1-78	CHK T3 BY DATE	TOTAL SCALE	
FINISH:		NAME:	ASSEMBLY USED OR W	
HARDENING:		MATERIAL:	PART NO.	
TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED FRACTIONS - 1/64 DECIMALS - .005 ANGLES - 1°		M.P.U. CONTROL BOARD SCHEMATIC		
DO NOT SCALE DRAWING		W-1181-3c		

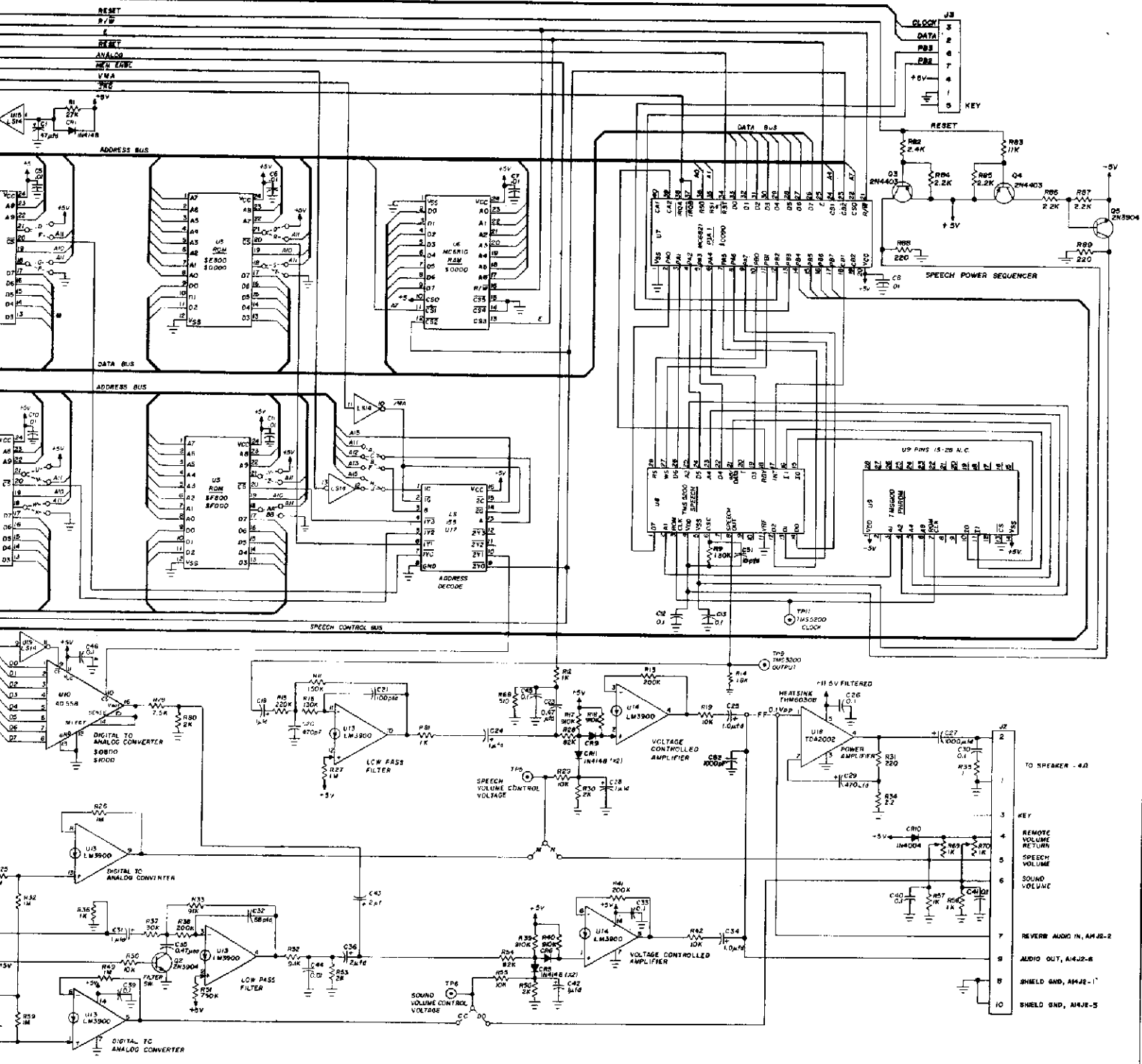


NOTES:  
 1. UNLESS OTHERWISE INDICATED ALL RESISTOR VALUES ARE IN OHMS.

LAST NUMBERS USED  
 R89  
 C81  
 CR10  
 U18  
 VR 2  
 Q8  
 TP12  
 FF

SQUAWK & TALK TEST POINTS  
 TP1 - GND  
 TP2 - +5VDC  
 TP3 - +11.5VDC  
 TP4 - +5VDC  
 TP5 - SPEECH VOLUME CONTROL VOLTAGE  
 TP6 - SOUND VOLUME CONTROL VOLTAGE

SQUAWK & TALK JUMPER  
 FROM - ROM JUMPER  
 2766 3346 A.B.D.H.G.T.U.V.X.Y.BB  
 2532 9332 C.E.G.G.S.U.W.X.AA  
 NO VOCALIZER H WITH VOCALIZER J  
 6808 MPU L (WITH 6801 RAM)  
 6802 MPU K (NO 6801 RAM)  
 N5 AY3-8912 EE  
 NO "SAY IT AGAIN" FF



**TEST POINTS**  
 TP1 - 1V3-8912 OUTPUT  
 TP2 - E PULSE  
 TP3 - 74133 CLOCK OUTPUT  
 TP4 - 74138  
 TP5 - 74133 CLOCK  
 TP6 - RESET

**SQUAWK & TALK JUMPERS**  
 FROM - ROM JUMPERS  
 2716 9316 A,B,D,R,O,T,U,Y,X,BB  
 2532 9332 C,F,G,O,S,U,W,Y,AA  
 NO VOICIALIZER H  
 WITH VOICIALIZER J  
 680B MPU L (WITH 6810 RAM)  
 6802 MPU K (NO 6810 RAM)  
 NO AT-3-8912 EE  
 NO 'SAY IT AGAIN' FF

**COMPUTER VOLUME CONTROL**  
 CC DD H

**SPEECH SOUND**  
 CC DD H

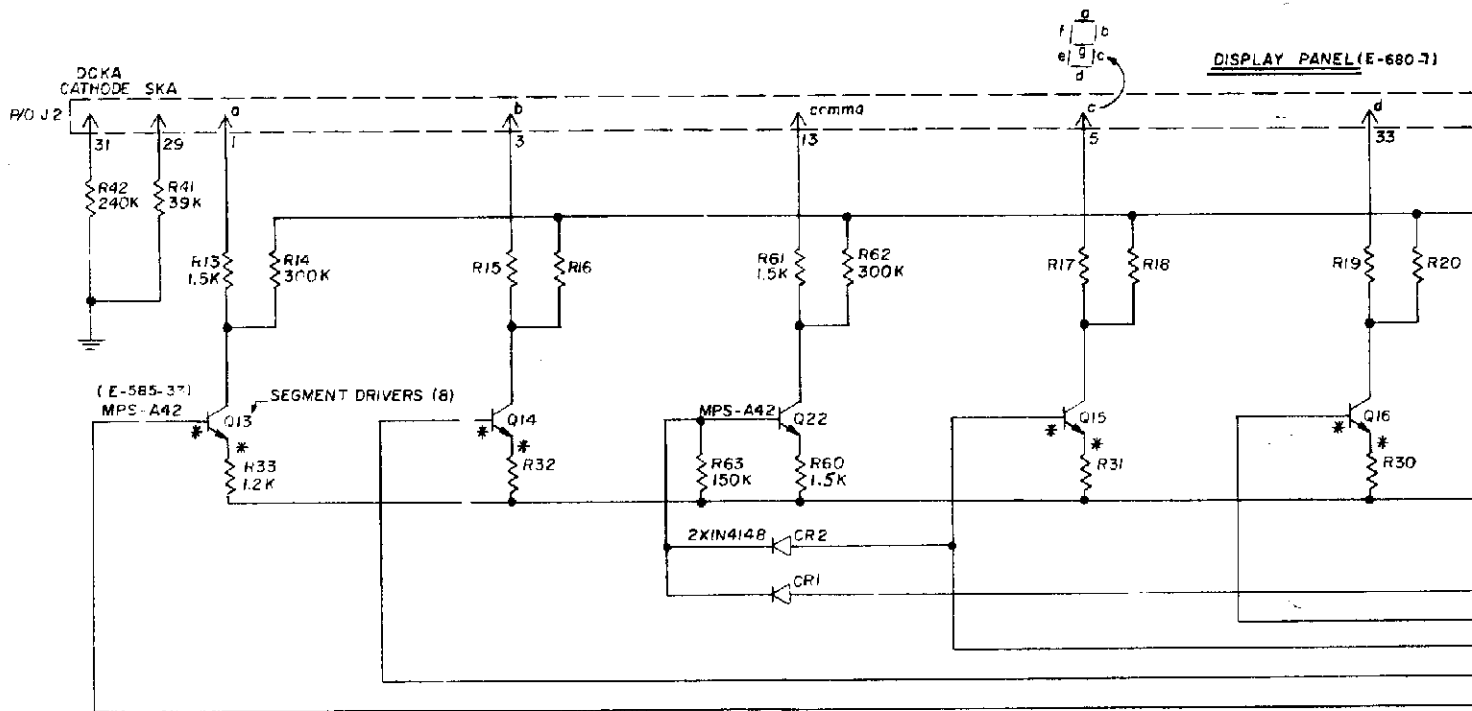
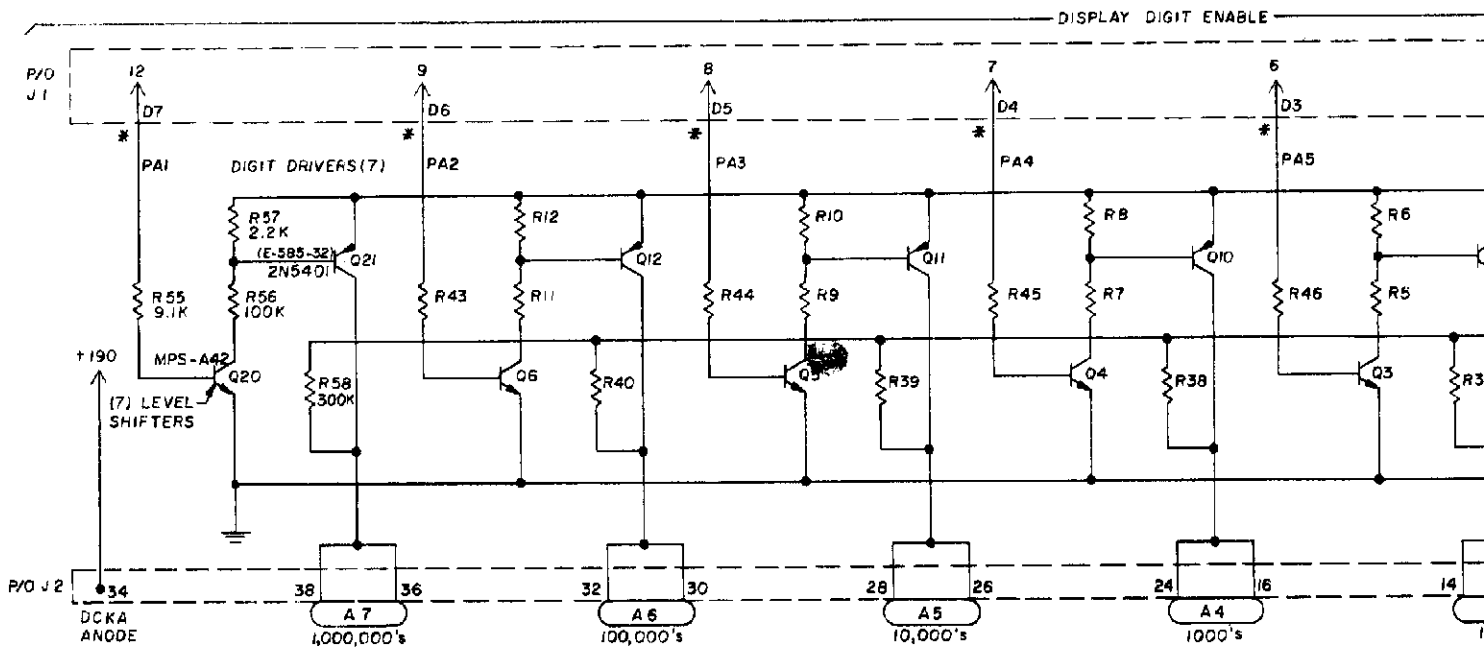
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REVISED ALL DIMENSIONS	DATE	BY
DESIGNED BY		
DRAWN BY		
CHECKED BY		
APPROVED BY		
DATE		
NAME		
DESIGNED BY		
DRAWN BY		
CHECKED BY		
APPROVED BY		
DATE		

**BILLY BIRD MANUFACTURING CORP.**  
 340 BELMONT AVENUE  
 CHICAGO, ILLINOIS 60618

ASSEMBLY NO. 0800 SCALE  
**AS-2518-01B**

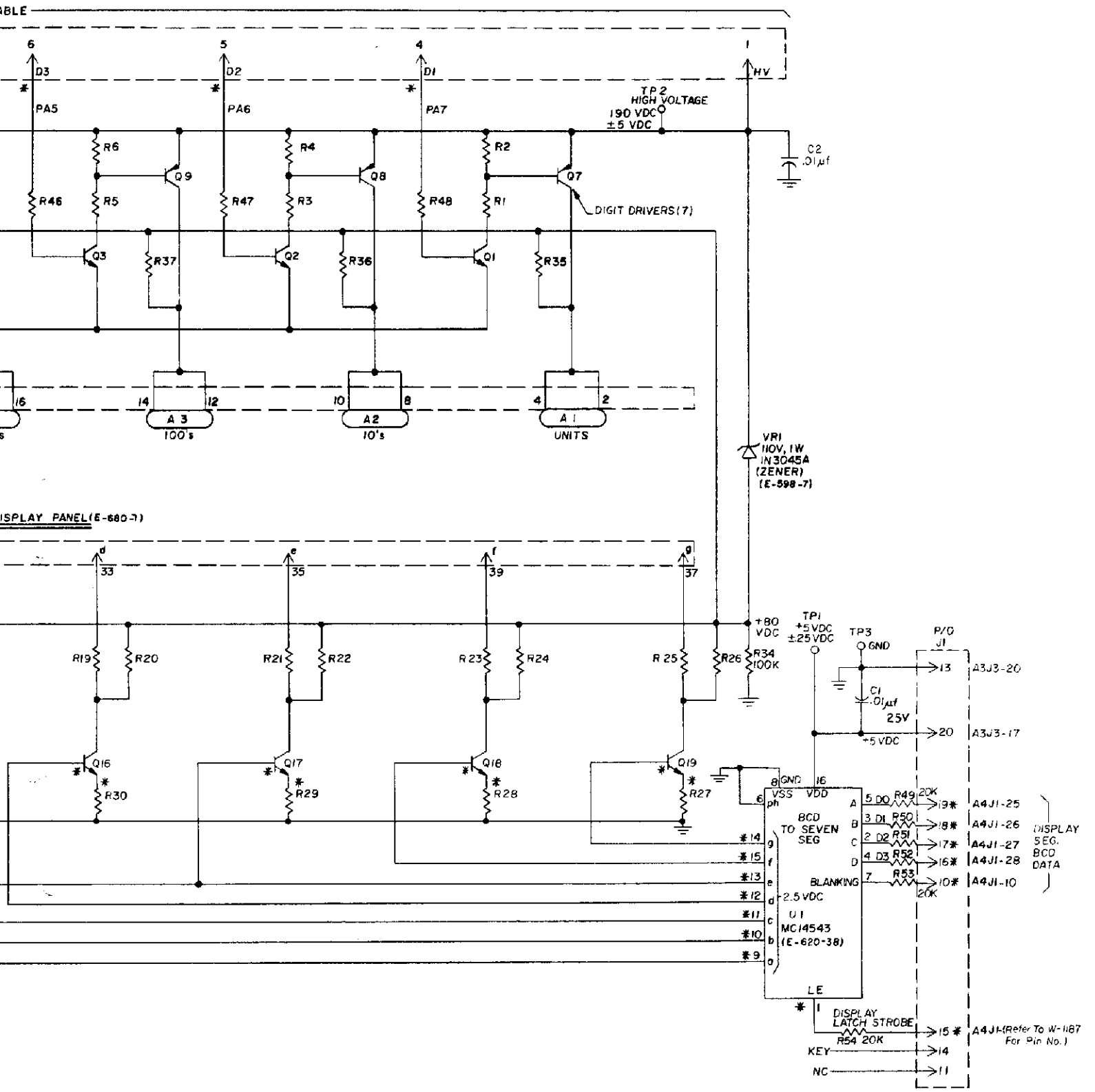
NAME: SQUAWK & TALK SCHEMATIC AS  
 PART NO.: W-1250-2-B  
 DATE: 12-82



\* INDICATES "AID" TEST POINT.

NOTES:

1. UNLESS OTHERWISE SPECIFIED ALL RESISTORS ARE  $\pm 5\%$ ,  $1/4$  W.
2. PREFIX ALL REFERENCE DESIG. WITH ASSEMBLY REFERENCE DESIG. "A 1".



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REMOVE ALL BURRS		DR. BY FFC	DATE 6-18-0	 <b>Bally MANUFACTURING CORP.</b> 2640 BELMONT AVENUE CHICAGO, ILLINOIS		#1210		
TOLERANCES UNLESS OTHERWISE SPECIFIED		CK. BY CPC	DATE 6-18-0			PRINT CONTROL	DIE SIZE	C.C.
FRACTIONS ± .008		AP'D BY	DATE	NAME	7 DIGIT DISPLAY BOARD	ASSEM. NO. USED		SCALE
DECIMALS ± .003		AP'D BY	DATE	MATERIAL	SCHEMATIC "A1"	AS-2518-58		✓
EXCEPT HOLE DIA. 5		FINISH		CODE		PART NO.		
ANGLES ± 1/2°		HARDENING				W-1184-2c		
DO NOT SCALE DRAWING								
NO.	LET.	CHANGE	DATE	BY				

PLAYFIELD MYLAR PROTECTORS

FO-589

ENCLOSED ARE TWO MYLAR PROTECTORS WHICH MAY BE ATTACHED TO THE PLAYFIELD IN FRONT OF THE SLINGSHOT KICKERS AS SHOWN IN SKETCH. THESE WILL HELP TO PRESERVE PAINT FINISH IN FRONT OF SLINGSHOTS.

TO APPLY, SIMPLY REMOVE PAPER BACKING AND PLACE MYLAR WITH FLAT EDGE TOUCHING THE TWO SLINGSHOT POSTS.

