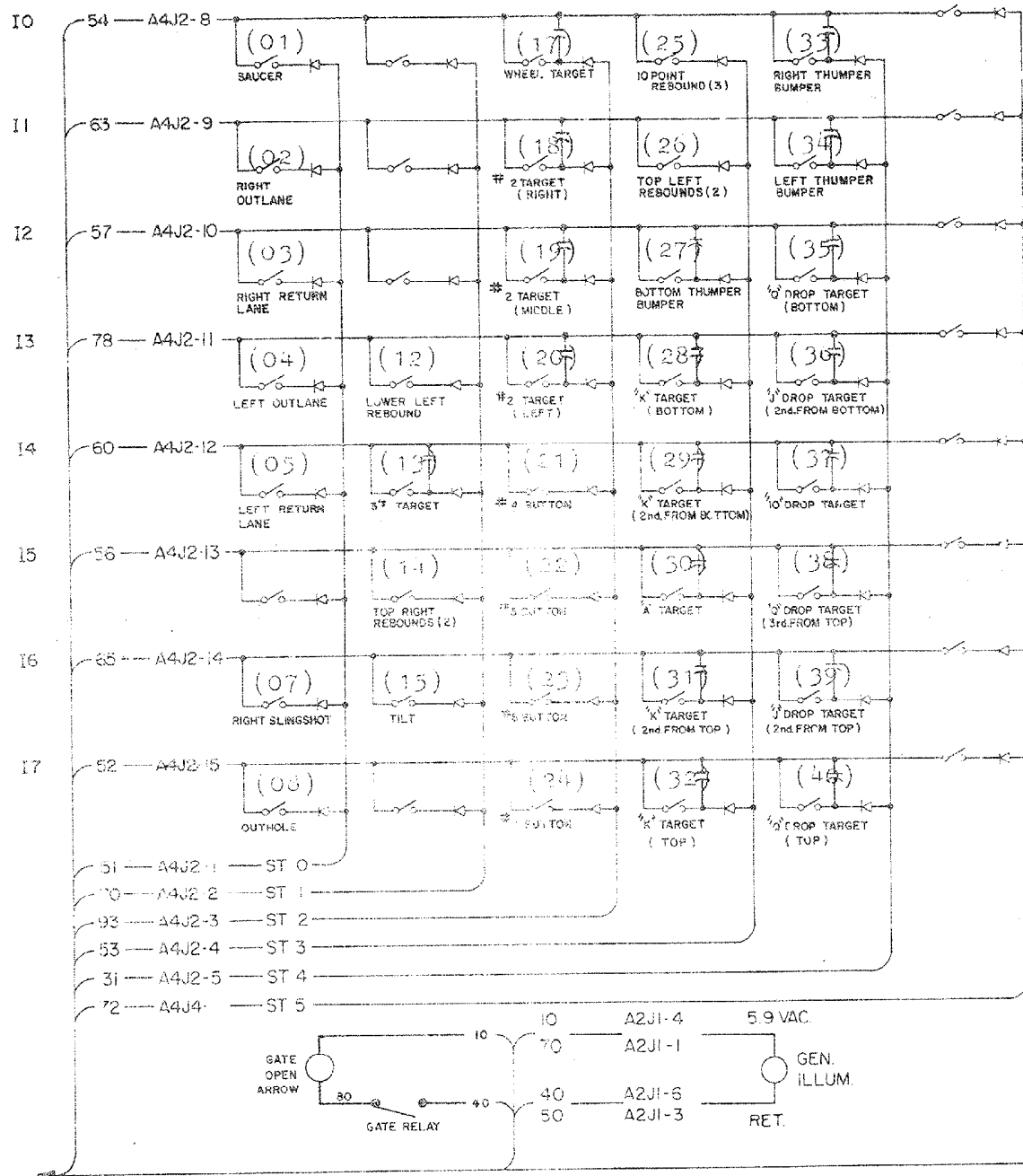


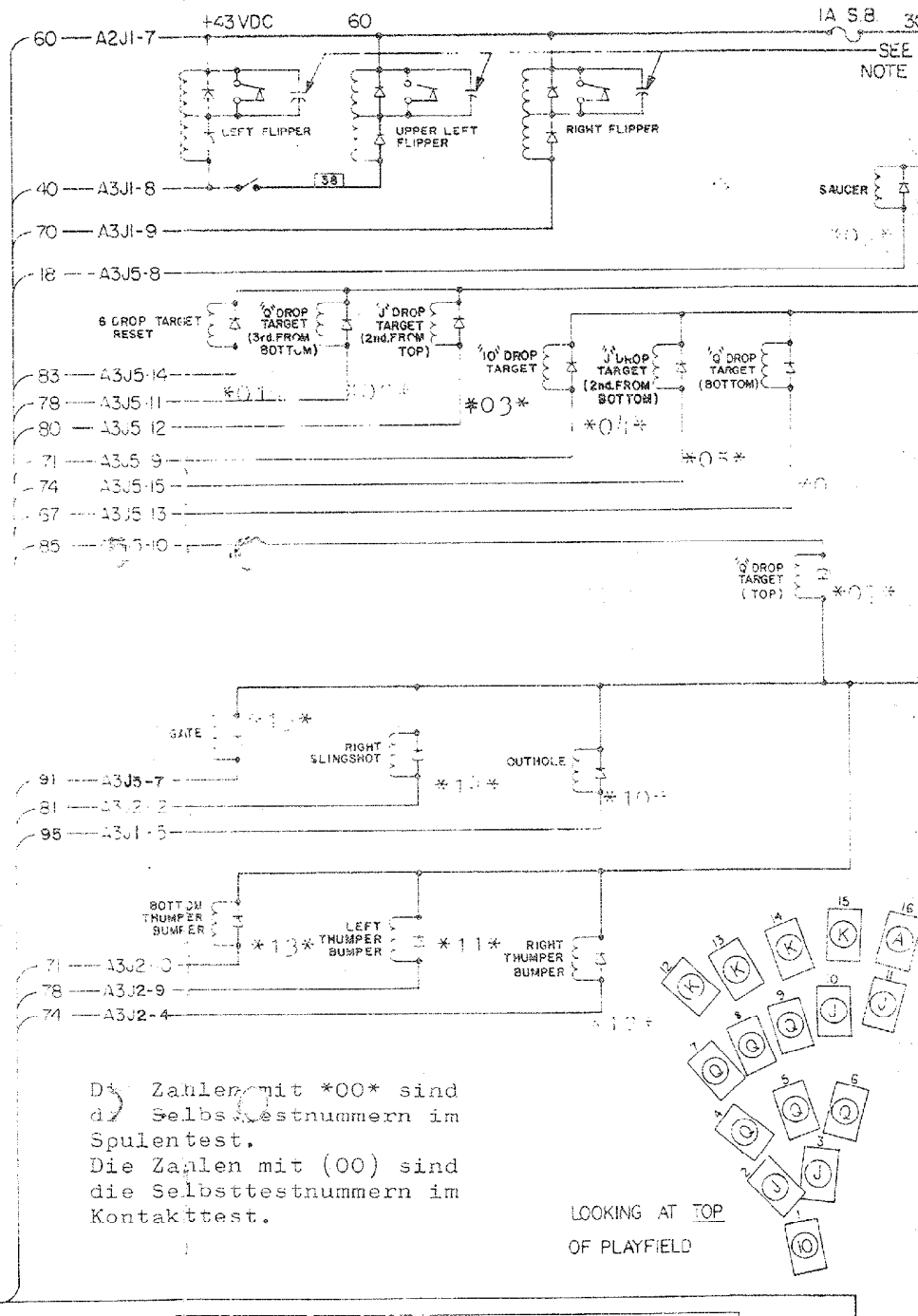


PLAYFIELD A6

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)

- 54 - A9J2-20 - 10 NO 3
- 82 - A9J2-19 - 10 NO 7
- 25 - A9J2-18 - 10 NO 11
- 98 - A9J2-17 - 10 NO 4
- 27 - A9J2-12 - 10 NO 8
- 15 - A9J2-11 - 10 NO 12
- 95 - A9J2-7 - 10 NO 9
- 45 - A9J2-6 - 10 NO 5
- 58 - A9J2-5 - 10 NO 1
- 52 - A9J2-3 - 10 NO 2
- 40 - A9J2-2 - 10 NO 6
- 43 - A9J2-1 - 10 NO 10



Die Zahlen mit *00* sind die Selbsttestnummern im Spulentest.
Die Zahlen mit (00) sind die Selbsttestnummern im Kontakttest.

LOOKING AT TOP
OF PLAYFIELD

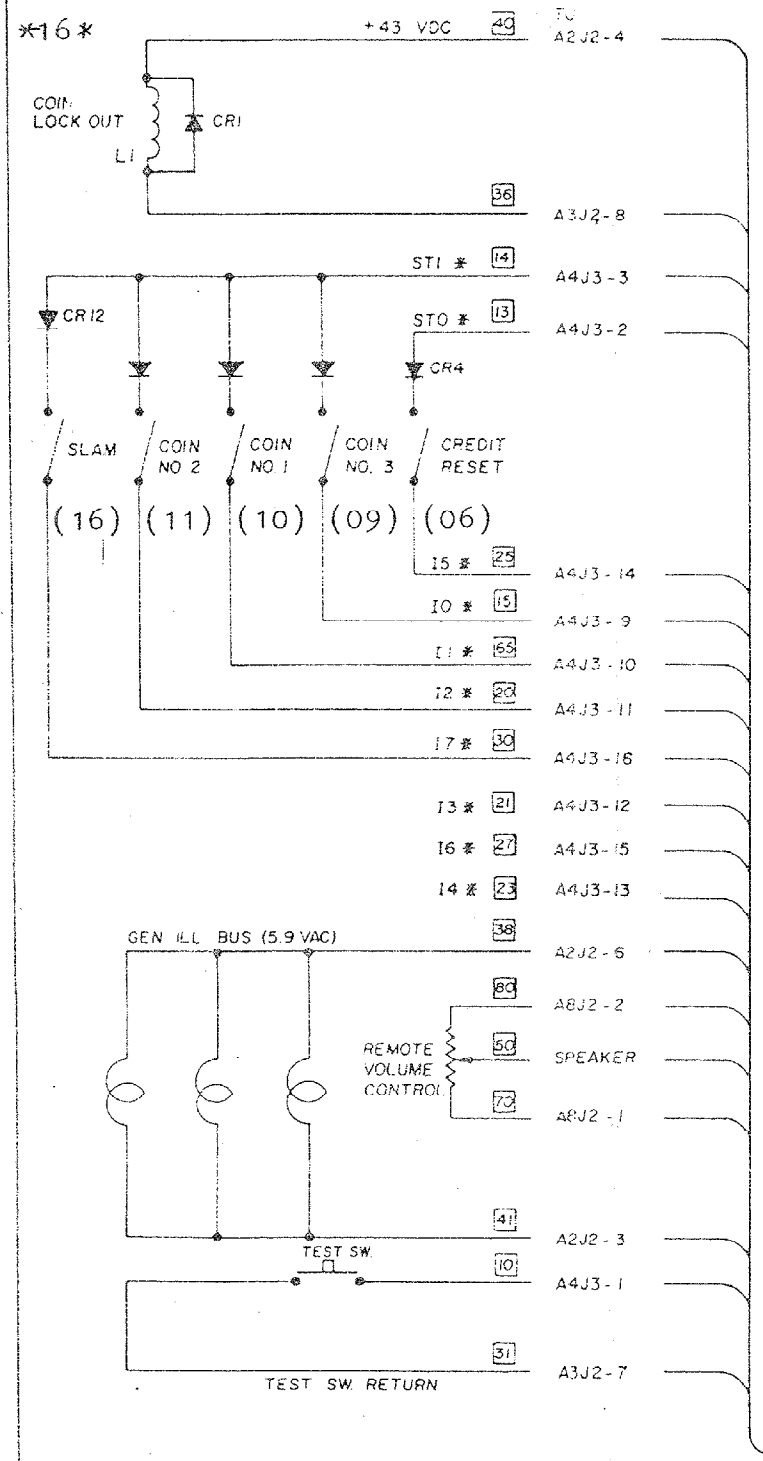
- PINK - A5J2-2 K NO 15
- 12 - A5J2-14 K NO 13
- 23 - A5J2-15 K NO 14
- 98 - A5J2-20 SPECIAL *3 TARGET
- 85 - A5J2-6 2 TARGETS 50,000
- 91 - A5J2-7 2 TARGETS SPECIAL
- 60 - A5J2-1 A NO 16
- 34 - A5J2-16 X-BALL *3 TARGET

1-84	1-20
1-84	1-20
2-72	2-20
3-61	3-20
4-53	4-20
5-20	5-96
6-20	6-75
7-20	7-91
8-20	8-67
9-40	9-16
10-68	10-65
11-64	11-57
12-78	12-64
13-54	13-52
14-54	14-51
15-60	15-12
16-45	16-32
17-62	17-55
18-62	18-78
19-43	19-N/U
20-56	20-N/U
21-KEY	21-KEY
22-23	22-N/U
23-96	23-45
24-27	24-25
25-12	25-92
26-91	26-91
27-15	27-15
28-62	28-98

- 56 - A5J1-18 #4 BUTTON
- 60 - A5J1-19 20,000 #3 TARGET
- 57 - A5J1-17 WHEEL TARGET ARROW
- 12 - A5J1-23 10" DROP TARGET
- 87 - A5J1-14 10" DROP TARGET (BOT.)
- 31 - A5J1-15 K TARGET (2nd FROM BOT.)
- 15 - A5J1-16 40,000 SAUCER
- 78 - A5J1-28 80 HEARTS
- 50 - A5J1-24 L & R RET. LANE ARROW
- 75 - A5J1-25 WHEEL 50,000
- 91 - A5J1-26 SHUT AGAIN
- 53 - A5J1-27 2 X BONUS
- 41 - A5J1-1 #5 BUTTON
- 43 - A5J1-9 40,000 #3 TARGET
- 51 - A5J1-8 2 TARGET (RIGHT)
- 45 - A5J1-3 10" DROP TARGET (3rd FROM TOP)
- 52 - A5J1-2 10" DROP TARGET (2nd FROM BOT.)
- 32 - A5J1-10 A TARGET
- 34 - A5J1-7 80,000 SAUCER
- 94 - A5J1-6 160 CLUBS
- 48 - A5J1-5 START WHEEL
- 65 - A5J1-11 WHEEL SPOTS CARD
- 35 - A5J1-4 N/U
- 61 - A5J1-12 3 X BONUS
- 30 - A5J1-13 240 DIAMONDS
- 13 - A5J3-26 #6 BUTTON
- 16 - A5J3-25 60,000 #3 TARGET
- 67 - A5J3-19 2 TARGET (MIDDLE)
- 13 - A5J3-17 10" DROP TARGET (2nd FROM TOP)
- 25 - A5J3-16 DROP TARGET ARROW SPECIAL
- 98 - A5J3-23 K TARGET (2nd FROM TOP)
- 40 - A5J3-27 SPECIAL SAUCER
- 64 - A5J3-21 WHEEL 10,000
- 78 - A5J3-20 WHEEL 25,000
- 23 - A5J3-22 2 TARGETS ADVANCE MULT.
- 72 - A5J3-24 4 X BONUS
- 10 - A5J3-1 #7 BUTTON
- 21 - A5J3-12 80,000 #3 TARGET
- 53 - A5J3-15 2 TARGET (LEFT)
- 92 - A5J3-11 10" DROP TARGET (TOP)
- 15 - A5J3-9 K TARGET (BOTTOM)
- 35 - A5J3-13 CREDIT INDICATOR
- 14 - A5J3-4 SPECIAL 4-7 BUTTON
- 95 - A5J3-2 320 SPADES
- 91 - A5J3-10 WHEEL OPEN GATE
- 56 - A5J3-18 WHEEL ALL DEUCES
- 81 - A5J3-3 K TARGET (TOP)
- 84 - A5J3-14 5 X BONUS
- 20 - A2J1-5

Spielfeldverdrahtungsplan

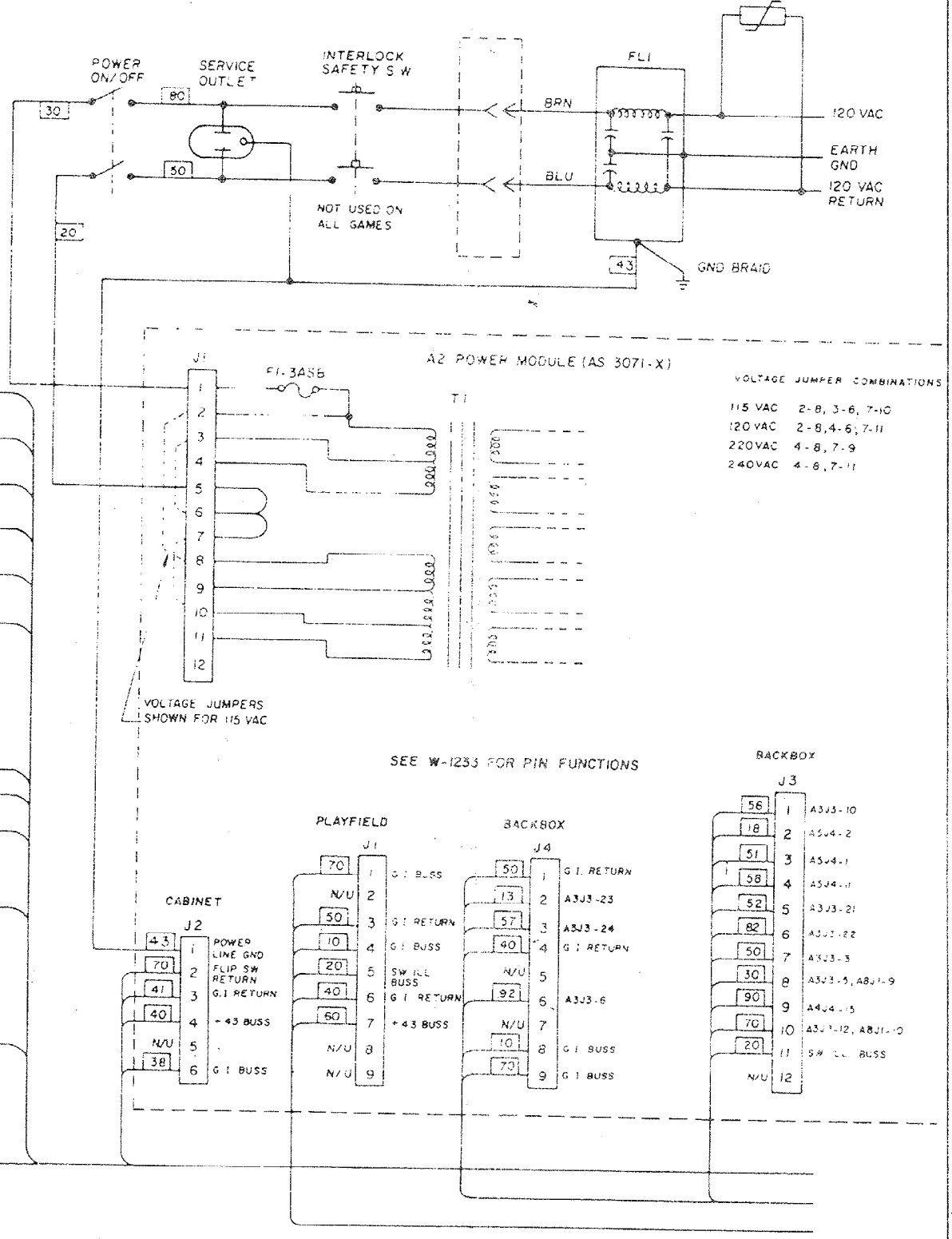
Kings of Steel



- 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	A8J2-1	12
DOOR PLUG		A8J2-2	13

A7 CABINET ASS'Y. WIRING
NOTE: DIODES ARE IN 400 (E-587-6)



Die Zahlen mit *00* sind
die Selbsttestnummern im
Spulentest.
Die Zahlen mit (oo) sind
die Selbsttestnummern im
Kontakttest.

Verdrahtung im Gehäuse
Kings of Steel

AI INSERT

		TO
12	A5J2-14	
23	A5J2-15	
	A5J2-2	
60	A5J2-1	
47	A5J2-21	SHOOT AGAIN
95	A5J2-11	GAME OVER
35	A5J2-10	TILT
34	A5J2-16	
98	A5J2-20	
85	A5J2-6	
91	A5J2-7	
97	A5J2-23	HIGH SCORE
82	A5J2-3	MATCH
62	A5J2-22	BALL IN PLAY
84	A5J2-3	
72	A5J2-4	
	A5J2-5	NOTE 1
	A5J2-9	NOTE 1
61	A5J2-12	
53	A5J2-13	

SWITCHED
ILL. BUS

54V.D.C.

TG

A2J4-8
A2J4-9

10/7C GEN ILL
LAMPS ()

5.9V.A.C.

TO
A2J4-1
A2J4-4

50/40

20
A2J3-II

J1		TO	
3	1	{ A5 J4 - 15 A4 J1 - 14	43
52	2	{ A5 J4 - 14 A4 J1 - 16	40
90	3	{ A4 J1 - 8	62
45	4	{ A5 J4 - 16 A4 J1 - 13	95
	5		68
	6	KEY	45
23	7	{ A5 J4 - 6 A4 J1 - 17	
53	8	{ A5 J4 - 7 A4 J1 - 16	15
71	9	{ A5 J4 - 5 A4 J1 - 16	27
74	10	{ A5 J4 - 4 A4 J1 - 18	
84	11	{ A5 J4 - 3 A3 J3 - 16	
	12		96
	13		25
	14		32
58	15	{ A5 J4 - 11 A2 J3 - 4	54

VZ	TO
1	3/2 NO 10
2	3/2 NO 6
3	3/2 NO 2
4	KEY
5	3/2 NO 1
6	3/2 NO 5
7	3/2 NO 9
8	
9	
10	
11	3/2 NO 12
12	3/2 NO 8
13	
14	
15	
16	
17	3/2 NO 4
18	3/2 NO 11
19	3/2 NO 7
20	3/2 NO 3

PANEL TO BACKBOX

VOLTAGE REGULATOR / SOLENOID DRIVER A3

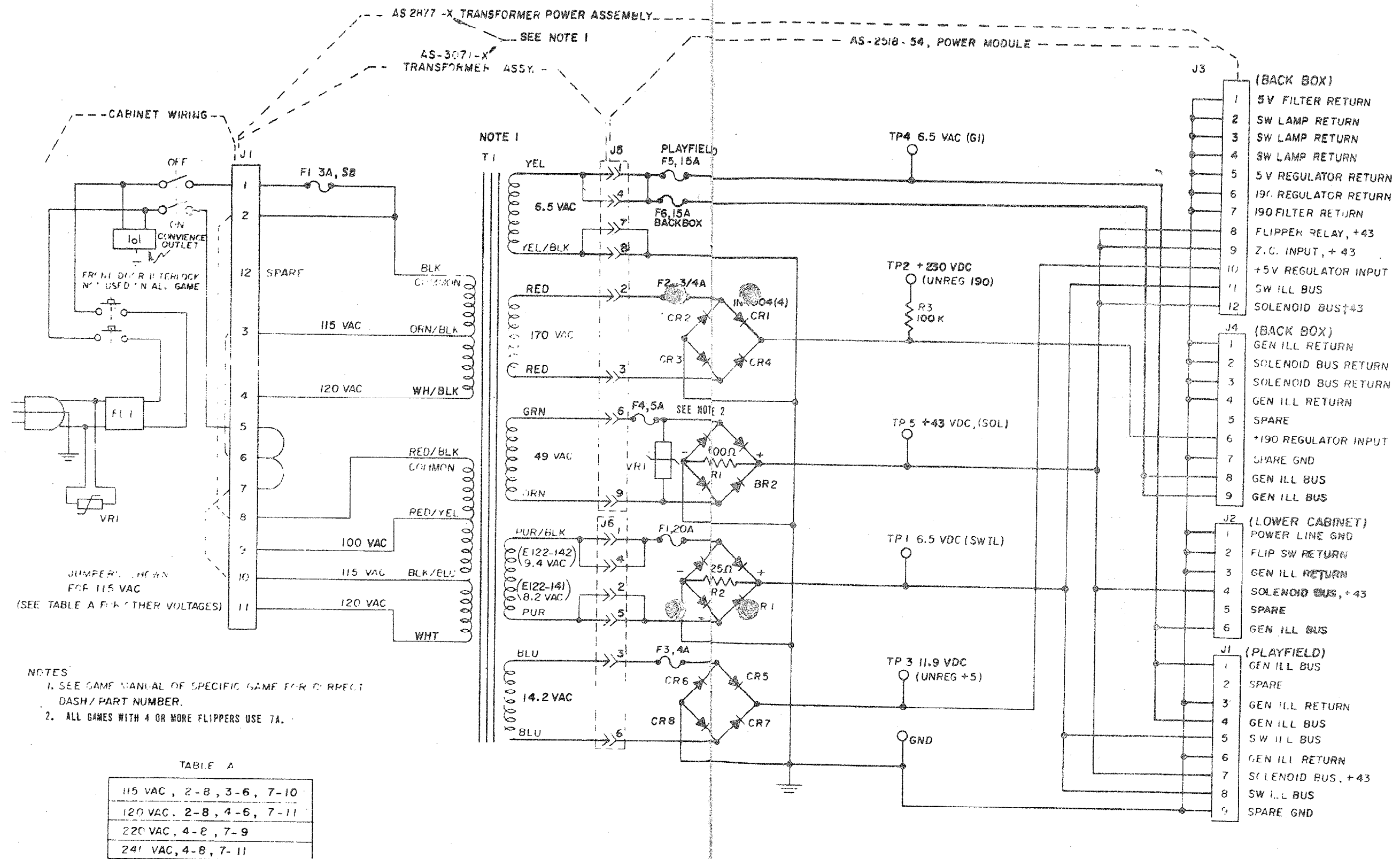
J4	TO	J2	TO	J3	TO
15	1 A3J4-3	51	1 STOP-PLAY	3	1 SELF TEST SW
78	2 A3J4-4	70	2 ST1 FIELD	3	2 STC SW CAB
21	3 A3J4-5	93	3 ST2 SW	4	3 STC SW CAB
23	4 A3J4-6	53	4 ST3 STROBE	4	4 KEY
36	5 A3J4-11	31	5 ST4	5	5 N/U
27	5 A3J4-9	6	6 KEY	6	6 N/U
25	7 A3J4-8	7	7 N/U	7	7 N/U
31	8 A3J4-10	54	8 IO	8	8 N/U
9	9 N/U	63	9 I1 PLAY	15	9 IO
61	10 A3J4-7	57	10 I2 FIELD	65	10 I1
11	11 N/C	78	11 I3 SW	20	11 I2
14	12 A3J3-11	60	12 I4 RETURN	12	13 I3
13	13 N/C	56	13 I5	13	14 I4
14	14 KEY	65	14 I1	25	14 I5
30	15 A2J3-5	52	15 I1	27	15 I6
96	16 A3J3-14			30	16 I7
54	17 A3J3-15				
94	18 A3J3-18				
61	19 A3J3-19				

J4		TO	J3		TO
	1	N/U		1	N/U
	2	KEY		2	KEY
15	3	A8J1-4	50	3	A2J5-7
78	4	A8J1-3		4	N/U
21	5	A8J1-2	30	5	A2J3-8
23	6	A8J1-1	92	6	A2J4-6
61	7	A8J1-8		7	NOTE 1
25	8	A4J4-7	10	8	A1J1-1
27	9	A4J4-6		9	NOTE 1
31	10	A4J4-8	56	10	A2J3-1
36	11	A4J4-5		11	A4J4-12
	12	N/U	70	12	A2J3-10
			64	13	A3J3-25
			56	14	A4J4-16
			54	15	A4J4-17
			84	16	A5J4-3
			45	17	A1J1-20
			94	18	A4J4-18
			81	19	A4J4-19
			60	20	A8J1-6
			52	21	A2J3-5
			82	22	A2J3-6
			13	23	A8J1-15
			57	24	A2J4-3
			64	25	A3J3-12

J2	TO	J1	TO	J5	TO
1	R FLIP SW	1	N/U	1	N/U
20 2	L FLIP SW	2		2	N/U
3	KEY	3		3	N/U
74 4	RT THUMBUMP	4	N/U	4	N/U
85 5	KNOCKER	5	OUT-HOLE	5	N/U
6	NOTE L	6	N/U	6	KEY
3 7	TEST SW RET.	7	KEY	91 7	GATE
36 8	COIN LOCKOUT	40 8	L FLIP COIL	18 8	SAUCER
78 9	LEFT THUMBUMP	70 9	R FLIP COIL	71 9	10" DROP TARGET
71 0	BOTTOM THUMB.			85 10	0" DROP TARGET (TOP)
11	N/U			78 11	0" DROP TARGET (3rd FROM TOP)
81 12	RT SLING SHOT			80 12	0" DROP TARGET (2nd FROM TOP)
13				67 13	0" DROP TARGET (BOTTOM)
14				83 14	6 DROP TARGET RESET
15				74 15	0" DROP TARGET (2nd FROM BOTTOM)

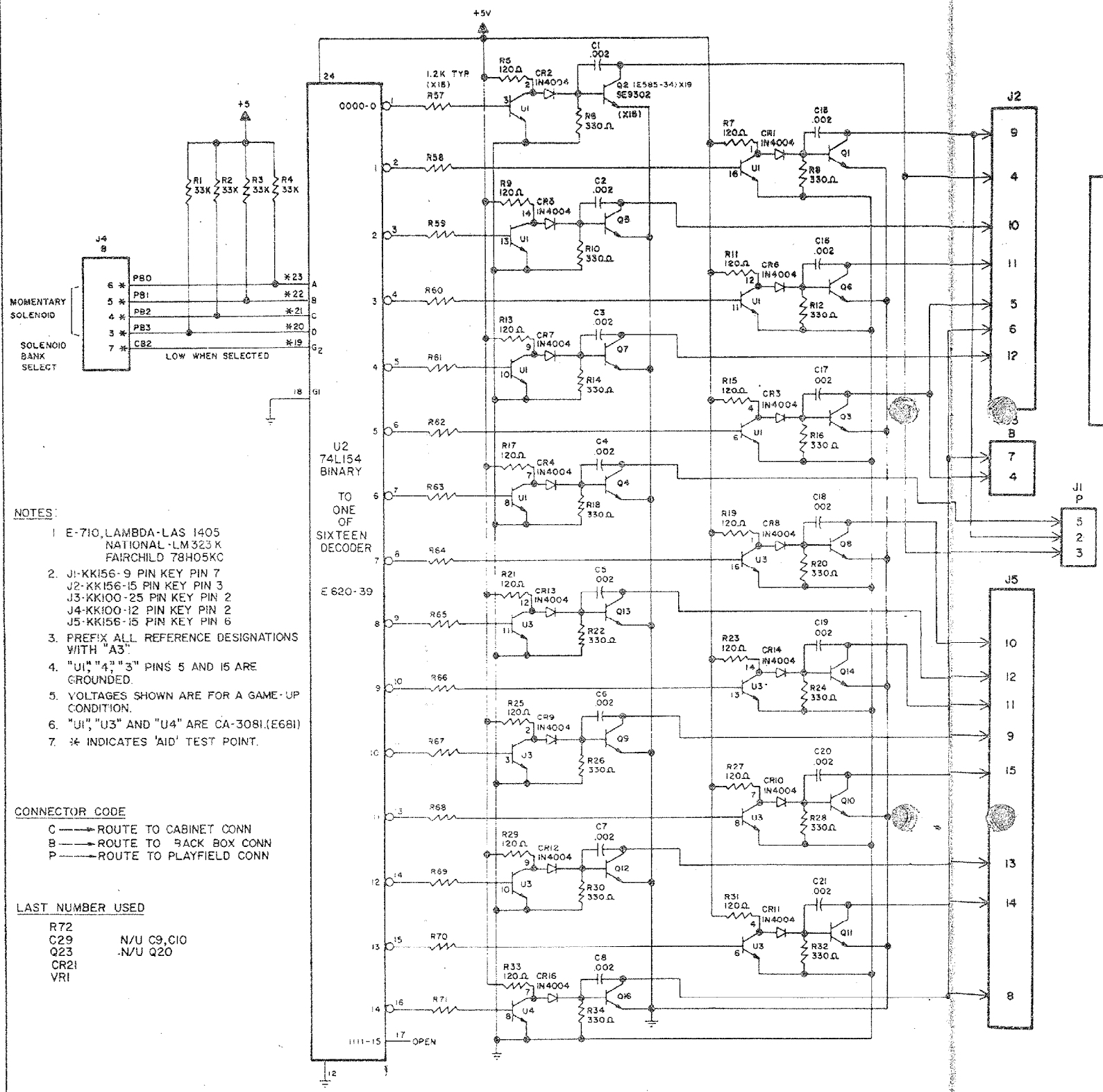
WIRE COLOR CODE	
1-RED	6-BROWN
2-BLUE	7-ORANGE
3-YELLOW	8-BLACK
4-GREEN	9-GRAY
5-WHITE	0-NO TRACE

Kings of Steel



Power Supply A 2

Kings of Steel



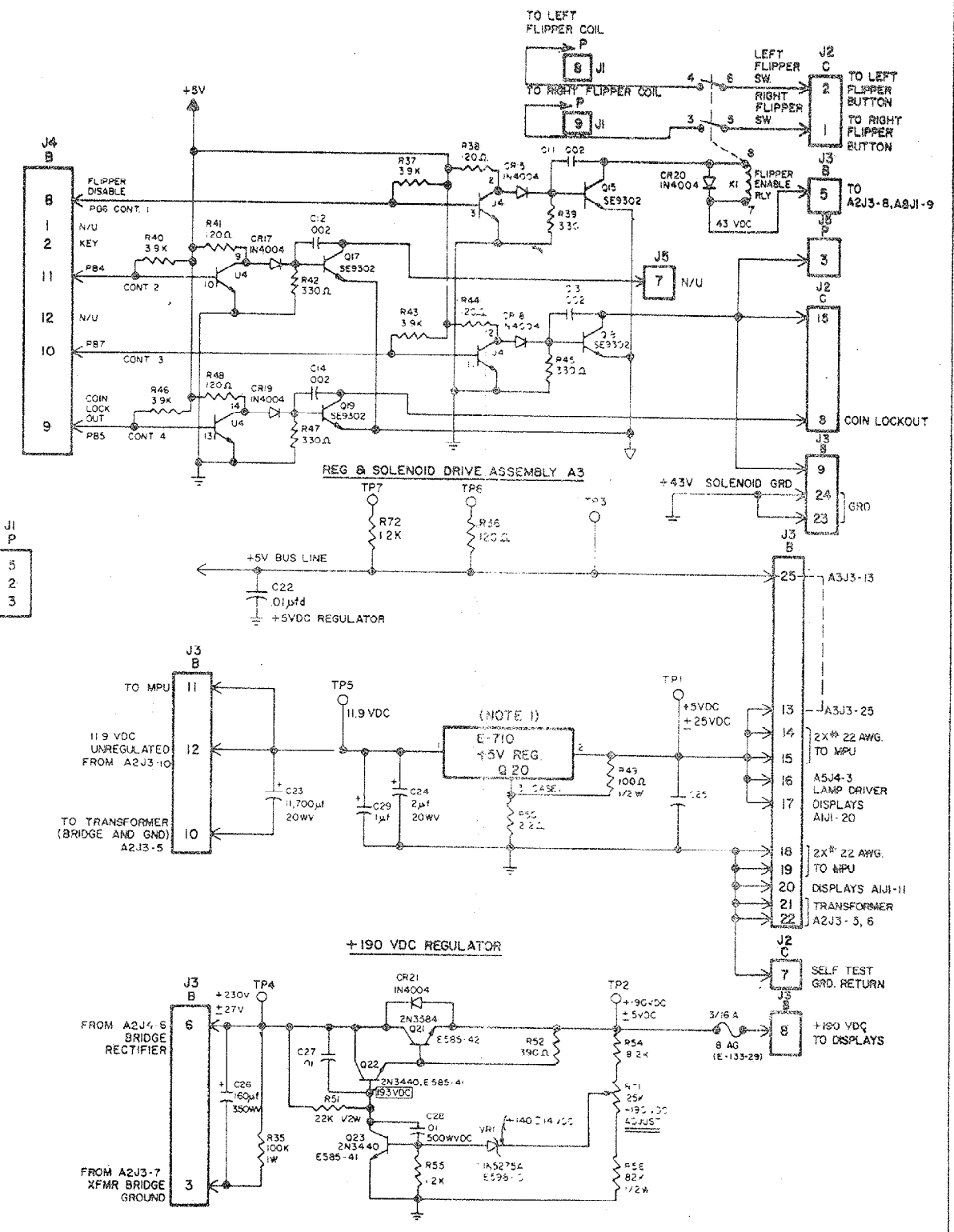
- NOTES:
- 1 E-710, LAMBDA-LAS 1405 NATIONAL-LM323K FAIRCHILD 78H05KC
 - 2 J1-KK156-9 PIN KEY PIN 7
 - 3 J2-KK156-15 PIN KEY PIN 3
 - 4 J3-KK100-25 PIN KEY PIN 2
 - 5 J4-KK100-12 PIN KEY PIN 2
 - 6 J5-KK156-15 PIN KEY PIN 6
 7. * PREFIX ALL REFERENCE DESIGNATIONS WITH "A3"
 8. "U1", "U4", "U3" PINS 5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

CONNECTOR CODE

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

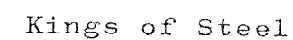
LAST NUMBER USED

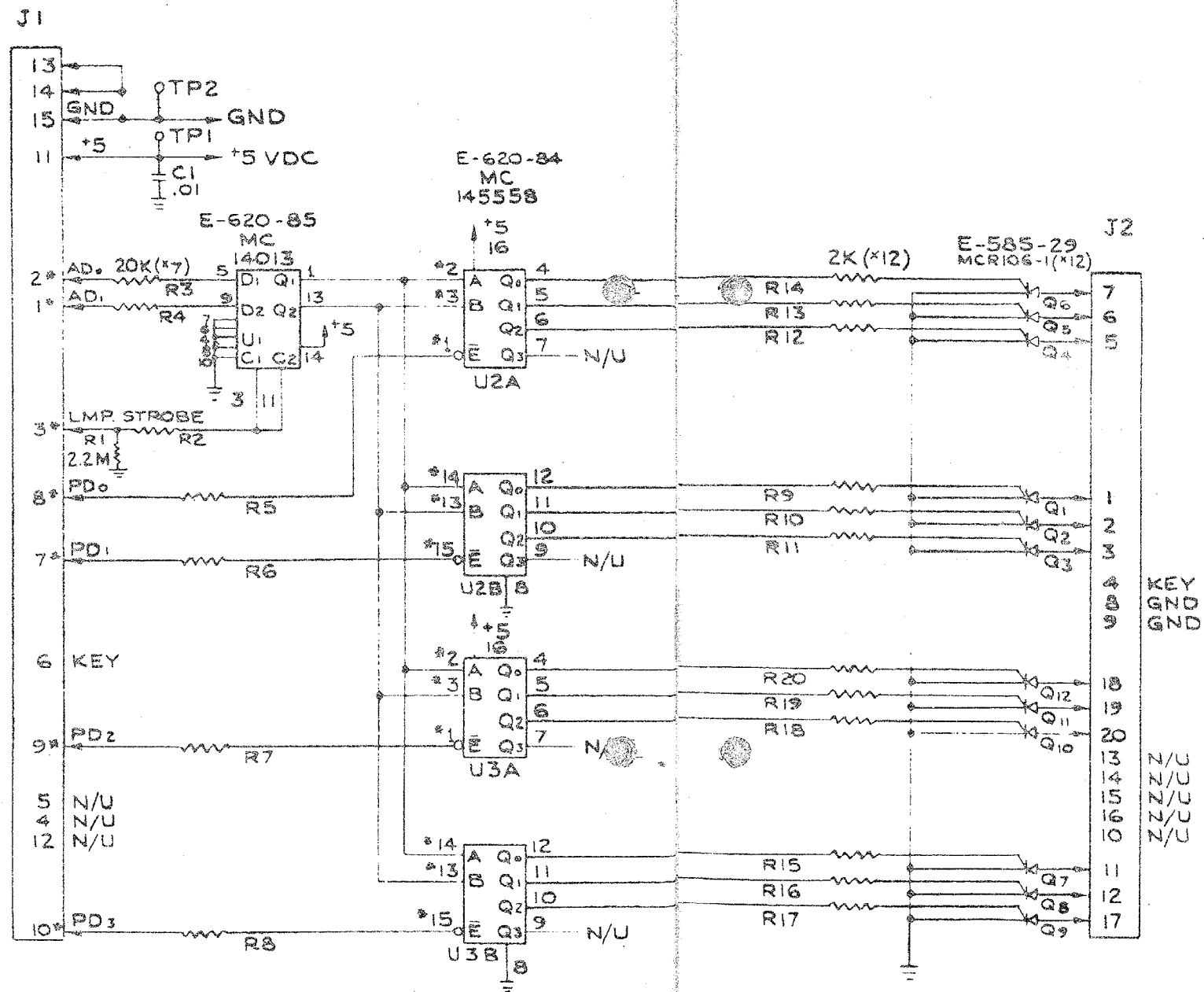
R72 N/U C9,C10
C29 N/U Q20
Q23 N/U Q20
CR21
VRI



Solenoid Driver Voltage Regulator Schematic A 3

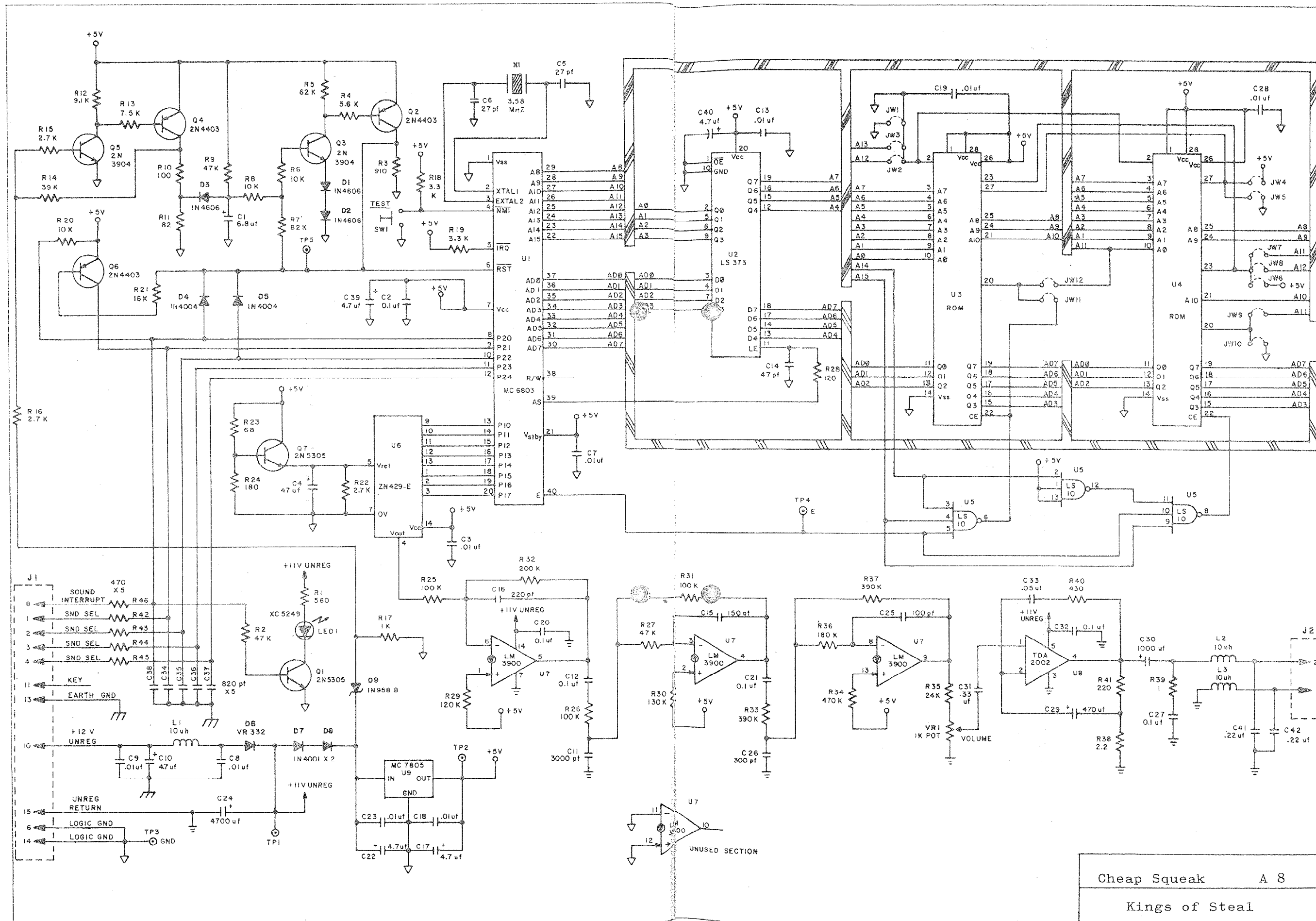
Kings of Steel





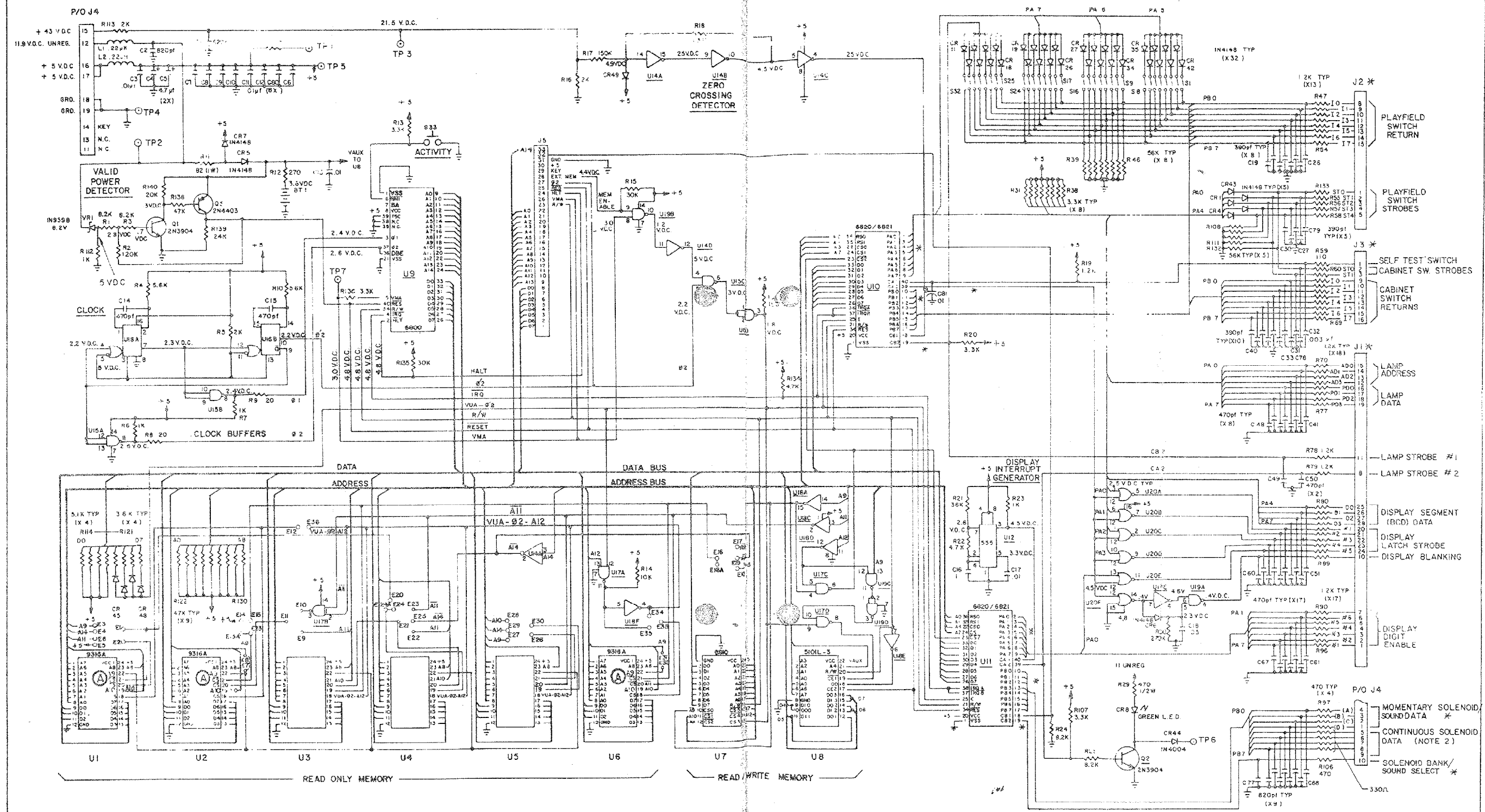
Auxiliary Lamp Driver A 9

Kings of Steel

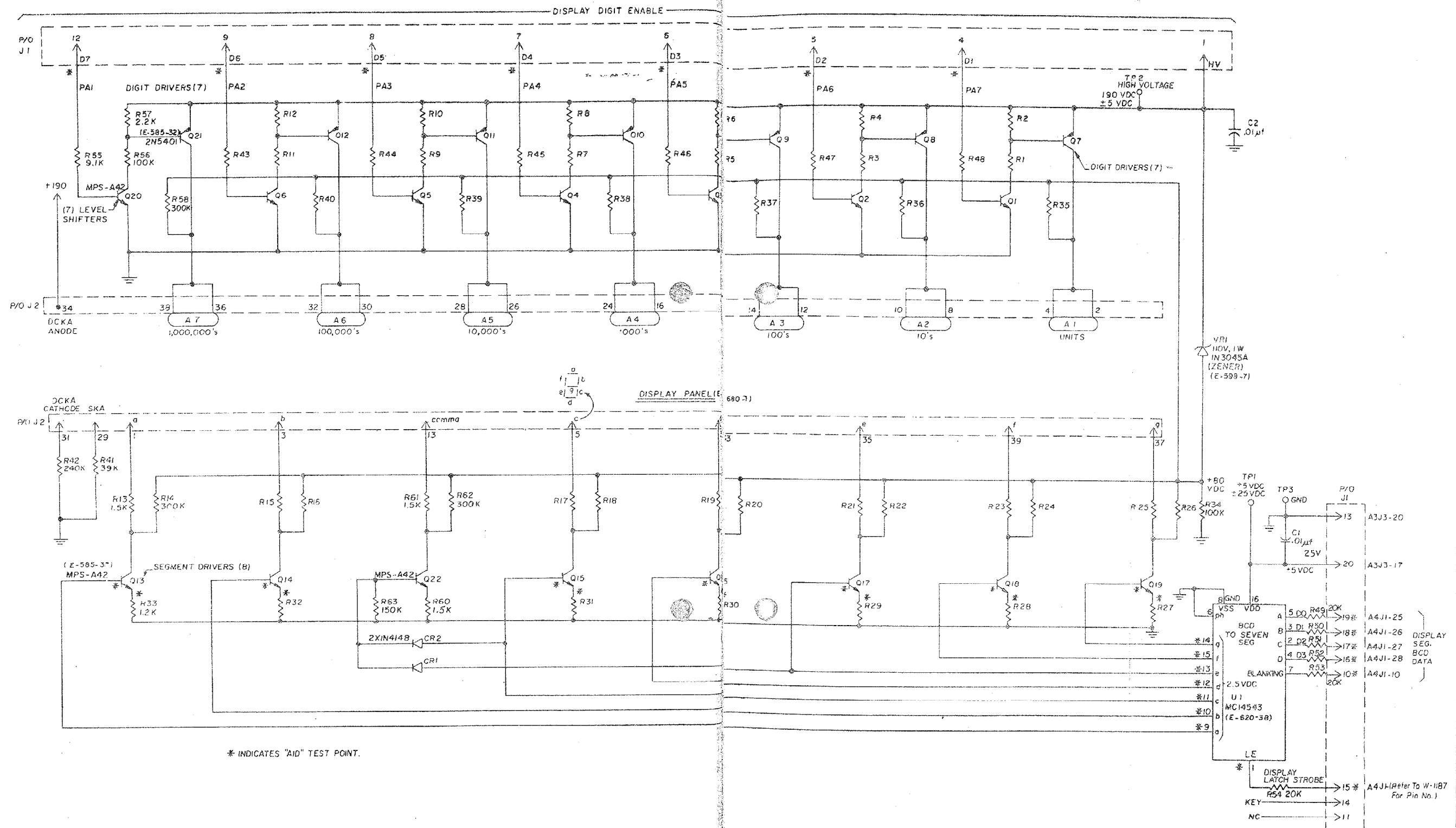


Cheap Squeak A 8

Kings of Steel



MPU A 4
Kings of Steel



7- stelliges Display A 1
Kings of Steel