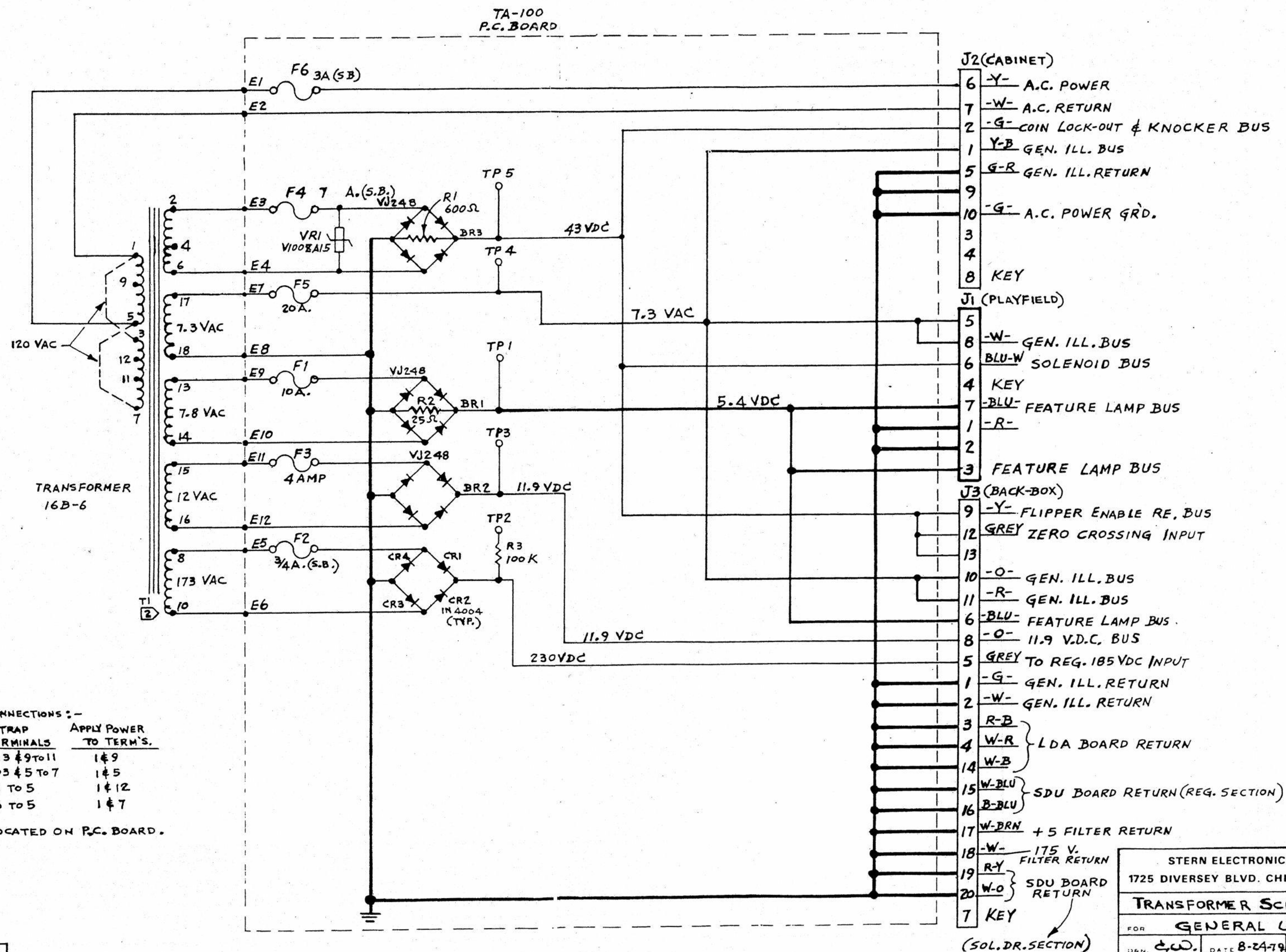
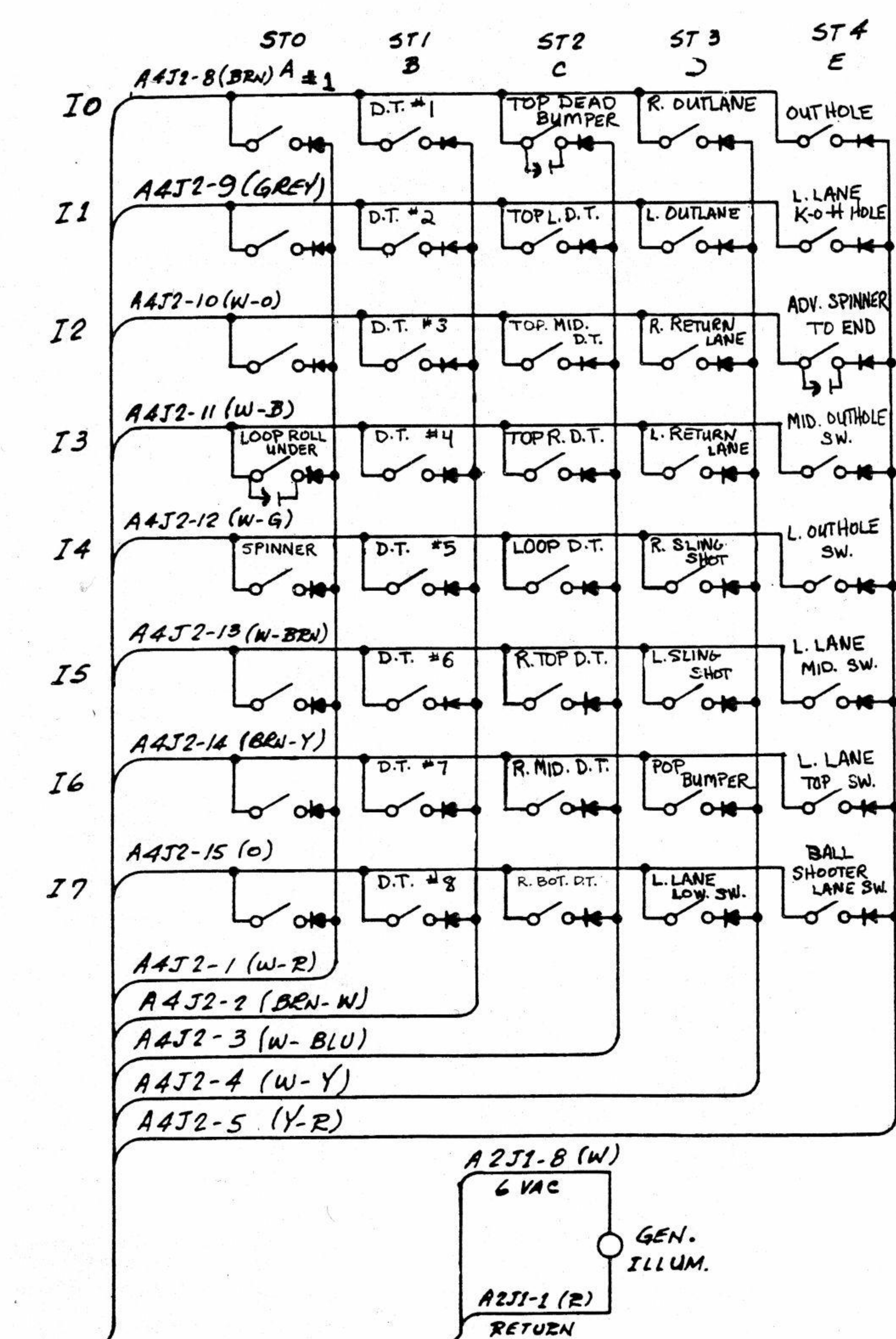


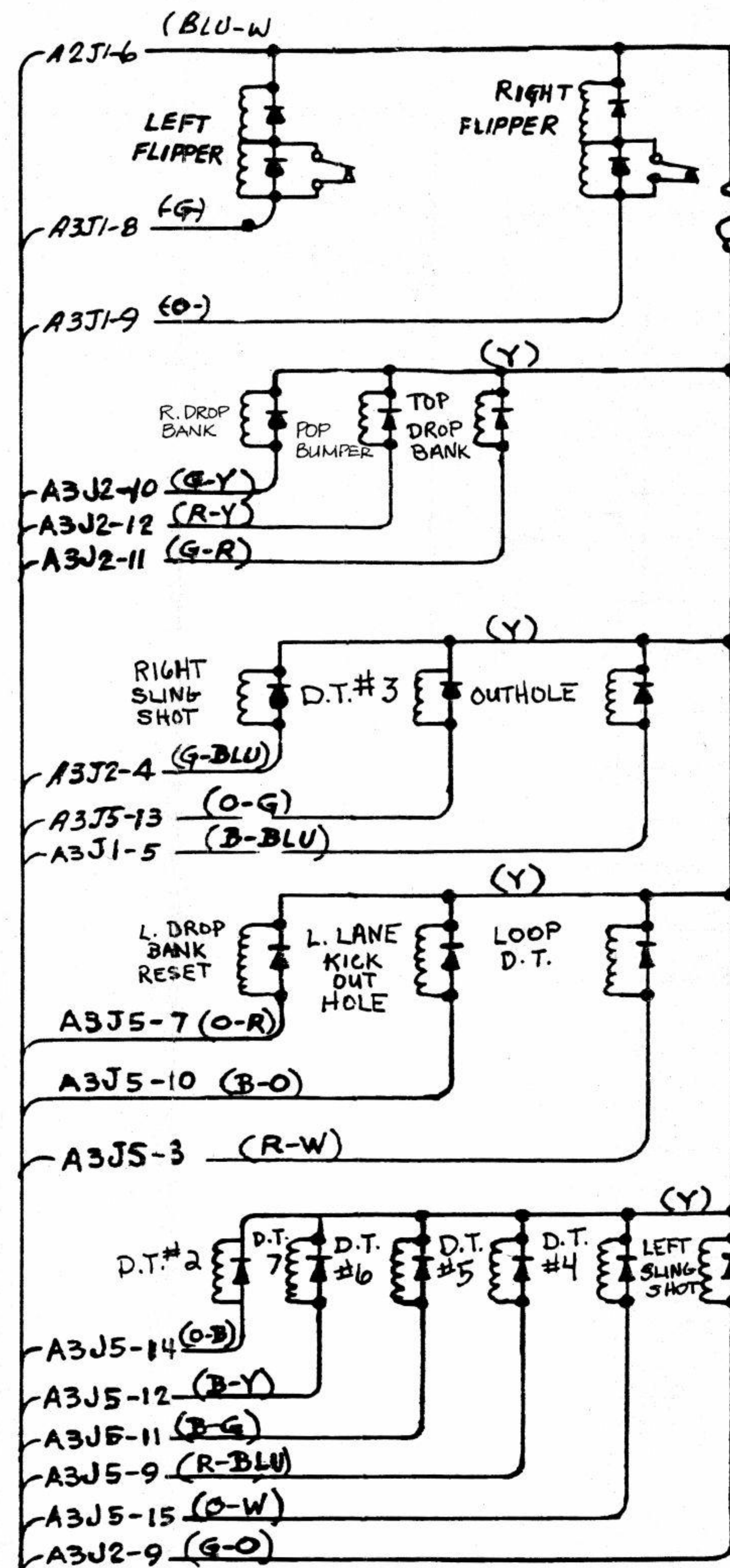


NINE BALL
LDA LIGHT LOCATION



D.T. = DROP TARGET
K.O.H. = KICK OUT HOLE

NINE BALL PLAYFIELD



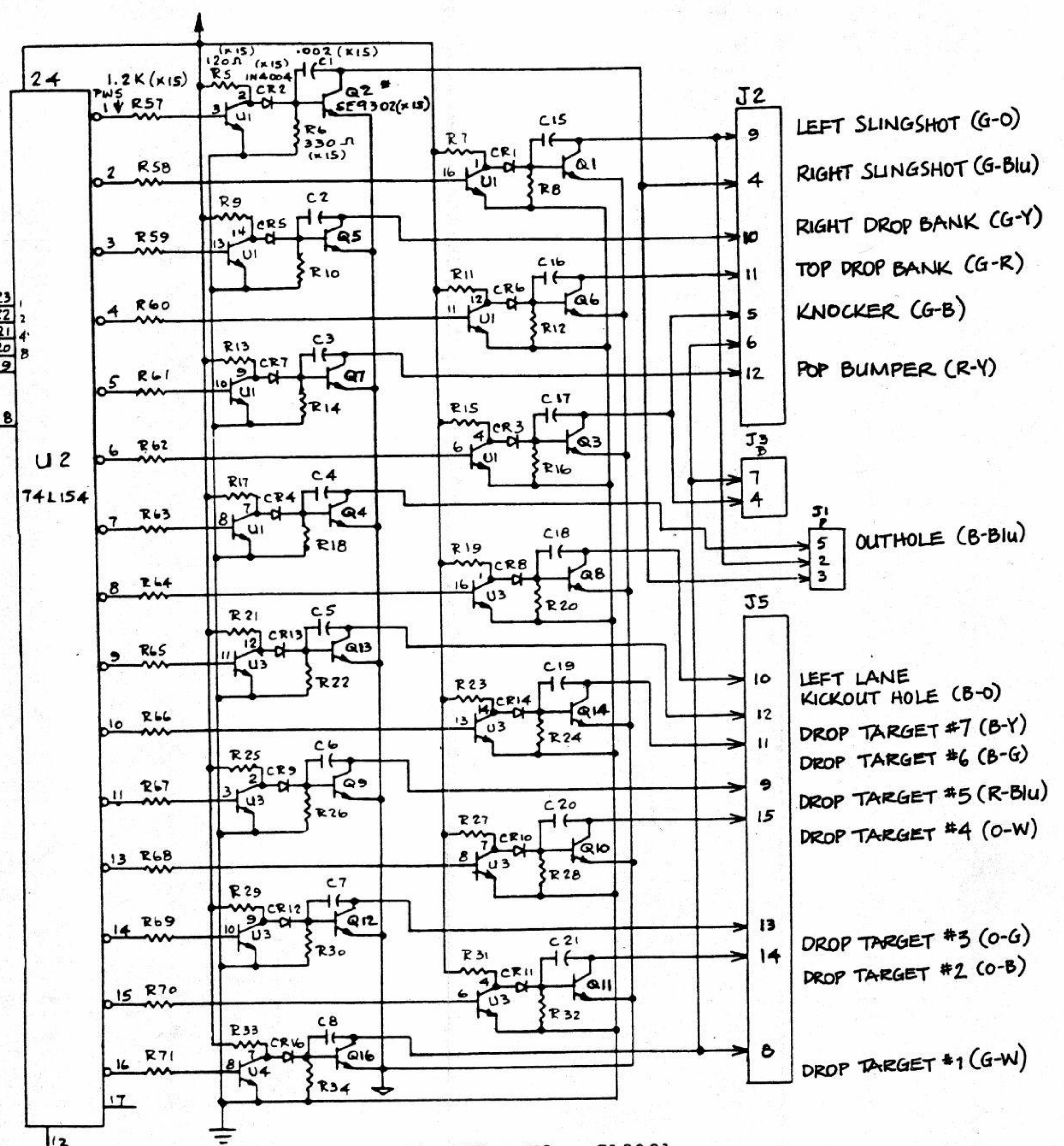
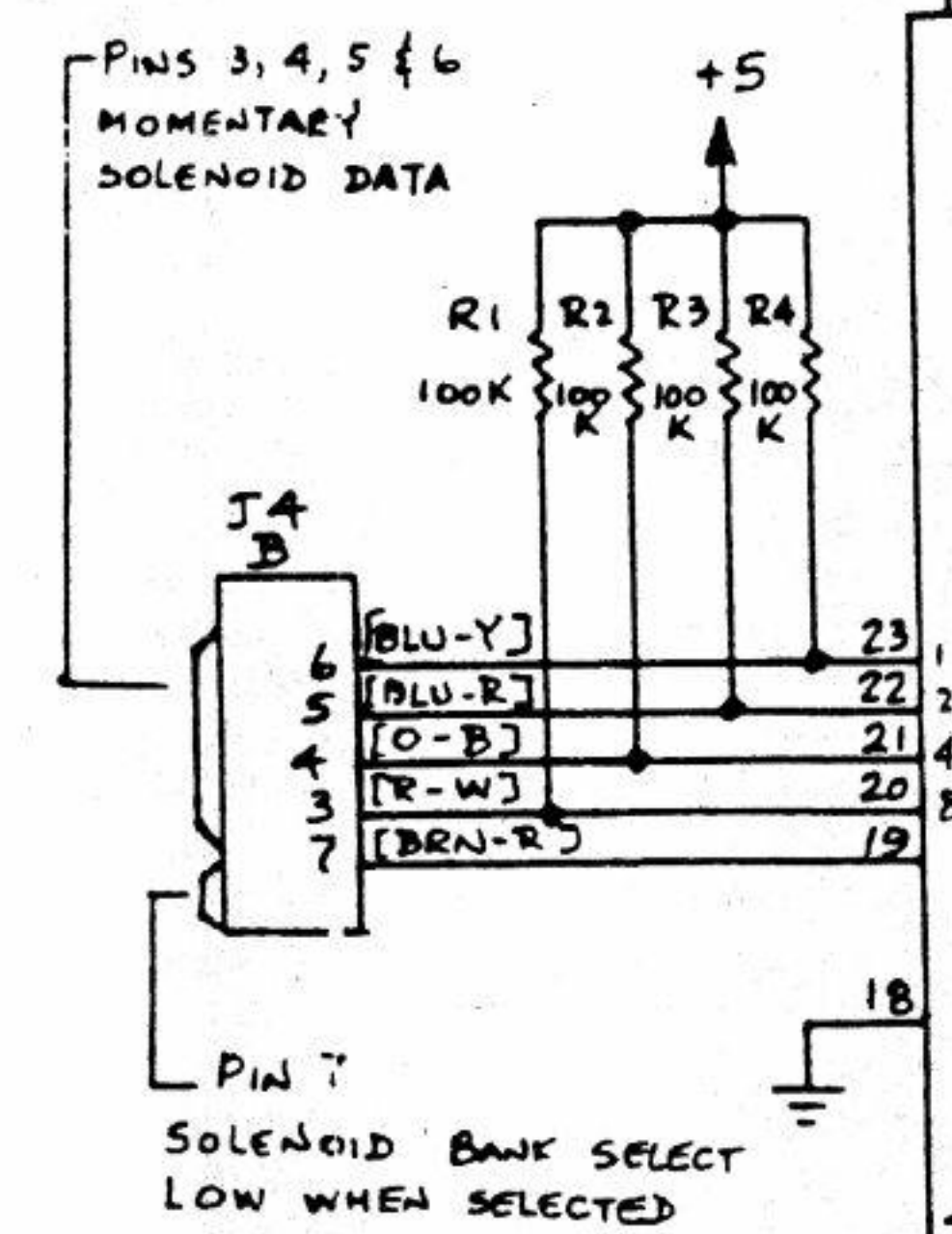
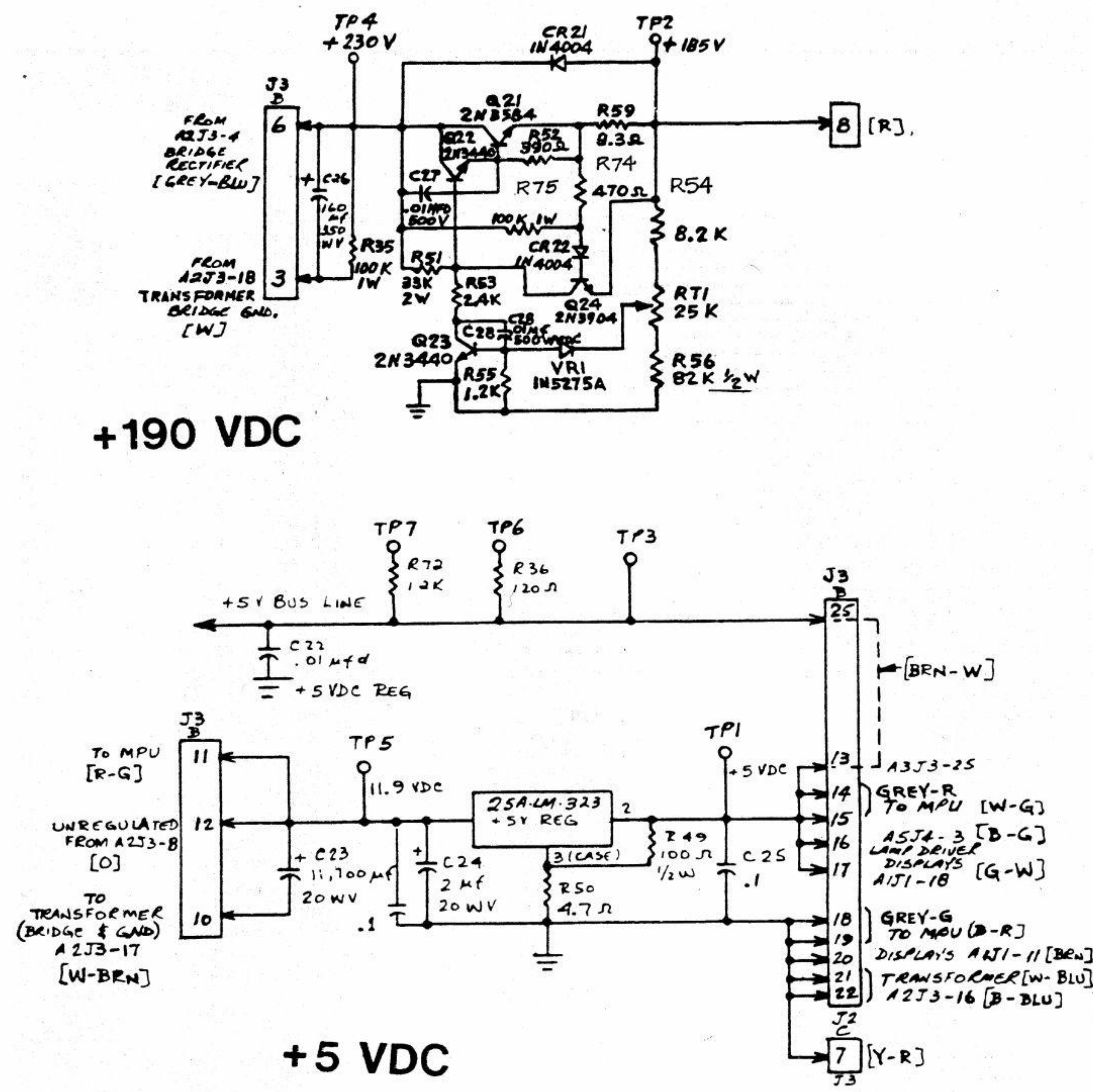
DESCRIPTION

- BONUS TARGET 1
- BONUS TARGET 2
- BONUS TARGET 3
- BONUS TARGET 4
- BONUS TARGET 5 & CAPTURE BALL
- BONUS TARGET 6
- BONUS TARGET 7
- BONUS TARGET 8 & LFT. BANK
- BONUS TARGET 9
- DROP TARGET 1
- DROP TARGET 2
- DROP TARGET 3
- DROP TARGET 4
- DROP TARGET 5
- DROP TARGET 6
- DROP TARGET 7
- DROP TARGET 8
- GAME OVER
- HIGH SCORE TO DATE
- L. BANK 7000 & R. OUTLANE
- L. RETURN LANE & SPOT NO.
- LOOP 10K
- LOOP 20K
- LOOP 30K
- LOOP 40K
- LOOP 177K
- MATCH
- MULTIPLIER 1X
- MULTIPLIER 2X
- MULTIPLIER 4X
- R. BANK BOTTOM WOW
- R. BANK TOP WOW
- R. BANK 7000 & L. OUTLANE
- R. RETURN LANE & SPOT NO.
- SHOOT AGAIN
- SPECIAL TARGET 2
- SPECIAL TARGET 3
- SPECIAL TARGET 4
- SPECIAL TARGET 5
- SPECIAL TARGET 6
- SPECIAL TARGET 7
- SPECIAL TARGET 8
- SPINNER 1
- SPINNER 2
- SPINNER 3
- SPINNER 4
- SUPER BONUS
- TILT
- TOP DEAD BUMPER
- TOP BANK L. WOW
- TOP BANK R. WOW
- WOW TARGET 1
- WOW TARGET 2
- WOW TARGET 3
- WOW TARGET 4
- WOW TARGET 5
- WOW TARGET 6
- WOW TARGET 7
- WOW TARGET 8
- 1-8 LITES SPECIAL

WIRE COLOR	JACK LDA	PIN NO.	TRANSISTOR
R-BLU	J3	18	Q46
W-O	J3	20	Q41
B-O	J1	11	Q17
PUR-B	J1	25	Q2
GREY-B	J3	10	Q56
B-G	J3	21	Q42
BLU-O	J1	5	Q24
BRN-BLU	J1	24	Q1
O	J1	14	Q9
BRN-B	J1	18	Q14
BLU-R	J1	1	Q29
B	J3	26	Q36
R-G	J3	1	Q57
GREY-G	J1	19	Q12
GREY	J1	9	Q27
R-Y	J3	25	Q38
G-R	J3	12	Q50
O-G	J2	11	Q33
GREY-O	J2	22	Q16
O-BLU	J2	23	Q15
BLU-W	J2	7	Q43
R-W	J3	4	Q59
B-W	J1	28	Q4
BRN-R	J1	6	Q25
W-BLU	J1	13	Q20
Y-B	J3	2	Q58
GREY-Y	J2	1	Q45
B	J1	16	Q11
Y-G	J1	7	Q26
O-W	J3	27	Q32
G-R	J2	14	Q6
G-W	J2	15	Q19
G	J2	21	Q3
Y	J2	6	Q30
GREY-R	J2	8	Q23
PUR-W	J1	2	Q34
R-B	J3	16	Q48
B-O	J3	9	Q55
GREY-Y	J1	15	Q10
GREY-B	J1	10	Q22
O-B	J3	23	Q37
R	J3	3	Q60
GREY-G	J2	13	Q7
W-R	J2	12	Q21
PUR-B	J2	4	Q39
B-W	J2	3	Q53
B	J2	16	Q5
GREY-BLU	J2	10	Q47
O	J2	20	Q18
W-BLU	J2	9	Q40
G-B	J2	2	Q31
PUR	J1	17	Q13
W-O	J1	8	Q28
B-R	J3	19	Q44
W-B	J3	15	Q51
BLU-W	J1	23	Q8
G-O	J1	3	Q35
Y-BLU	J3	17	Q49
W	J3	11	Q54
B-Y	J2	5	Q52

A2J5-7(BLU) FEATURE LAMP BUS

A2J5-3(BLU)

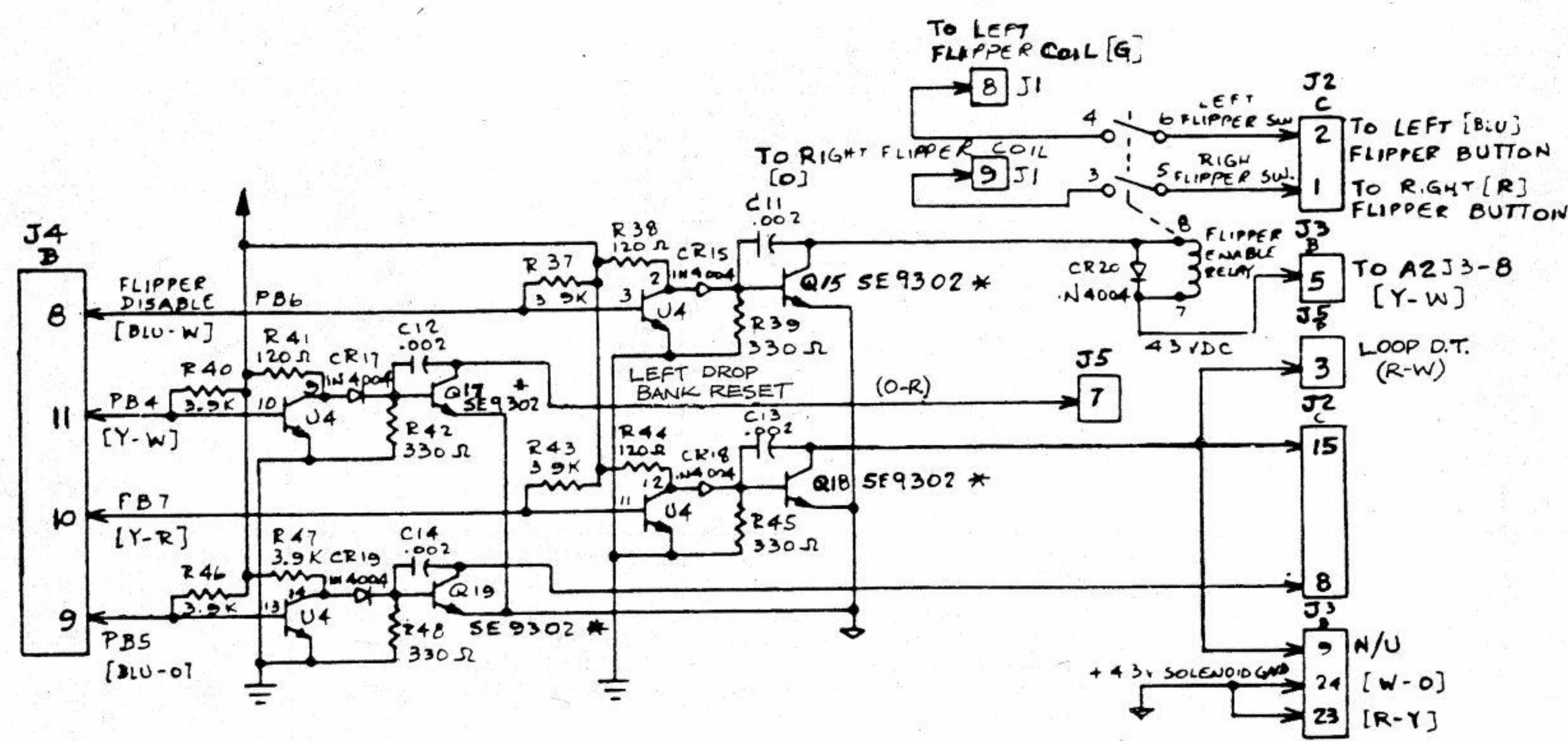


U1, U2 & U3 = CA3081
 *SE9302 Substitute X44E198
 Solenoid Test Display No.
 is Drive Transistor (Q)
 Position on SDU

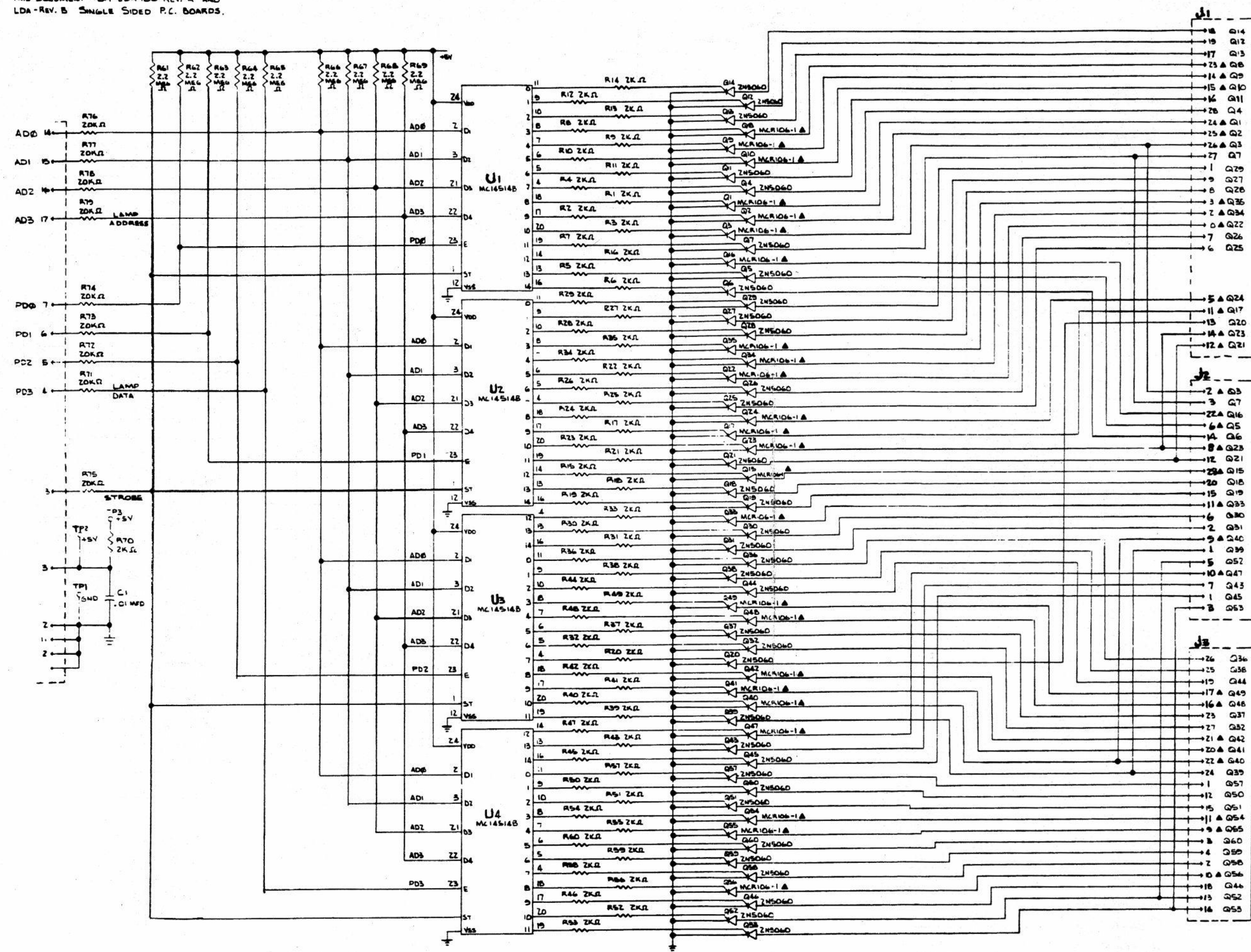
MOMENTARY SOLENOIDS

SOLENOID DRIVER/VOLTAGE REGULATOR SCHEMATIC

FOR NINE BALL



- NOTES:
1. ▲ INDICATES MC106-1 TRANSISTOR.
 2. THIS DOCUMENT FOR LDA-100 REV. A AND LDA-REV. B SINGLE SIDED P.C. BOARDS.



DESCRIPTION	WIRE COLOR	JACK LDA	PIN NO.
B ROLL-OVER BOTTOM LEFT	W-BLU	J3	3
L ROLL-OVER TOP	W-GREY	J3	23
A ROLL-OVER TOP	GREY-BLU	J1	10
S ROLL-OVER TOP	GREY-Y	J1	15
T ROLL-OVER TOP	R-W	J3	4
O ROLL-OVER TOP	R-B	J3	16
F ROLL-OVER BOTTOM LEFT	GREY-O	J1	14
F ROLL-OVER BOTTOM RIGHT	PUR-W	J1	2
BONUS 1,000	BRN-B	J1	18
BONUS 2,000	BLU-R	J1	1
BONUS 3,000	BRN	J3	26
BONUS 4,000	G-R	J3	1
BONUS 5,000	GREY-G	J1	19
BONUS 6,000	GREY	J1	9
BONUS 7,000	R-Y	J3	25
BONUS 8,000	O-G	J3	12
BONUS 9,000	PUR	J1	17
BONUS 10,000	G-B	J1	8
BONUS MULTIPLIER 1X	W-B	J3	15
BONUS MULTIPLIER 2X	BLU-W	J1	23
BONUS MULTIPLIER 3X	R-G	J1	3
BONUS MULTIPLIER 4X	Y-BLU	J3	17
BONUS MULTIPLIER 5X	W	J3	11
FIRST STAGE GO LEFT	Y-BLU	J2	7
FIRST STAGE GO TOP	Y-BLU	J2	7
GAME OVER	GREY-W	J2	11
HIGH SCORE TO DATE	GREY-O	J2	22
LEFT HAND CORNER B	Y-G	J3	02
LEFT HAND CORNER L	W-BLU	J1	13
LEFT HAND CORNER A	BRN-R	J1	6
LEFT HAND CORNER S	B-W	J1	28
LEFT HAND CORNER T	R-W	J3	4
LEFT HAND CORNER O	O-W	J3	27
LEFT HAND CORNER F	Y-G	J1	7
LEFT HAND CORNER F	B	J1	16
MATCH	GREY-Y	J2	1
RELEASE NEXT ROCKET	B-R	J3	19
RIGHT BANK	BRN-BLU	J1	24
RIGHT SPINNER -500	PUR-B	J1	4
RIGHT SPINNER -1,000	R	J3	22
RIGHT SPINNER -1,500	B	J3	13
RIGHT SPINNER -2,000	W-BRN	J1	27
SECOND STAGE GO LEFT	W-BLU	J2	5
SECOND STAGE GO TOP	W-BLU	J2	5
SHOOT AGAIN (BACKBOX)	GREY-R	J2	21
SHOOT AGAIN (PLAYFIELD)	GREY-R	J1	26
SPECIAL LANE	W	J2	16
SPECIAL LANE TOP	PUR-W	J2	30
SPECIAL OUT LANE LEFT	W-G	J2	15
SPECIAL OUT LANE RIGHT	G-W	J2	14
SPOT BLAST	G-B	J3	21
TILT	GREY-B	J2	10
#1 AT 5 BANK	GREY-B	J3	10
#2 AT 5 BANK	PUR-B	J1	25
#3 AT 5 BANK	B-O	J1	11
#4 AT 5 BANK	W-O	J3	20
#5 AT 5 BANK	R-BLU	J3	18
ALL SYSTEMS GO LEFT	BLU-Y	J2	20
ALL SYSTEMS GO TOP	BRN-O	J1	12
LEFT SPINNER	BLU-O	J1	05

ISSUE	CHANGE	DATE

SCALE: PART MUST BE FREE OF BURRS

Unless otherwise specified, all fractional dimensions carry tolerances of plus and minus .010: All decimal dimensions plus and minus .005. Exceptions: Drilled holes plus .003 minus .001. Die casting fractional plus and minus .005: Decimal plus and minus .003. Decimal dimensions on tools plus and minus .001. Angles $\pm 30^\circ$ unless otherwise specified.

STERN ELECTRONICS INC.		
1725 DIVERSEY BLVD. CHICAGO 60614		
LAMP DRIVER SCHEMATIC		
FOR NINE BALL		
URN. B.A.	DATE	AM'T
MAT	FIN.	APPR.