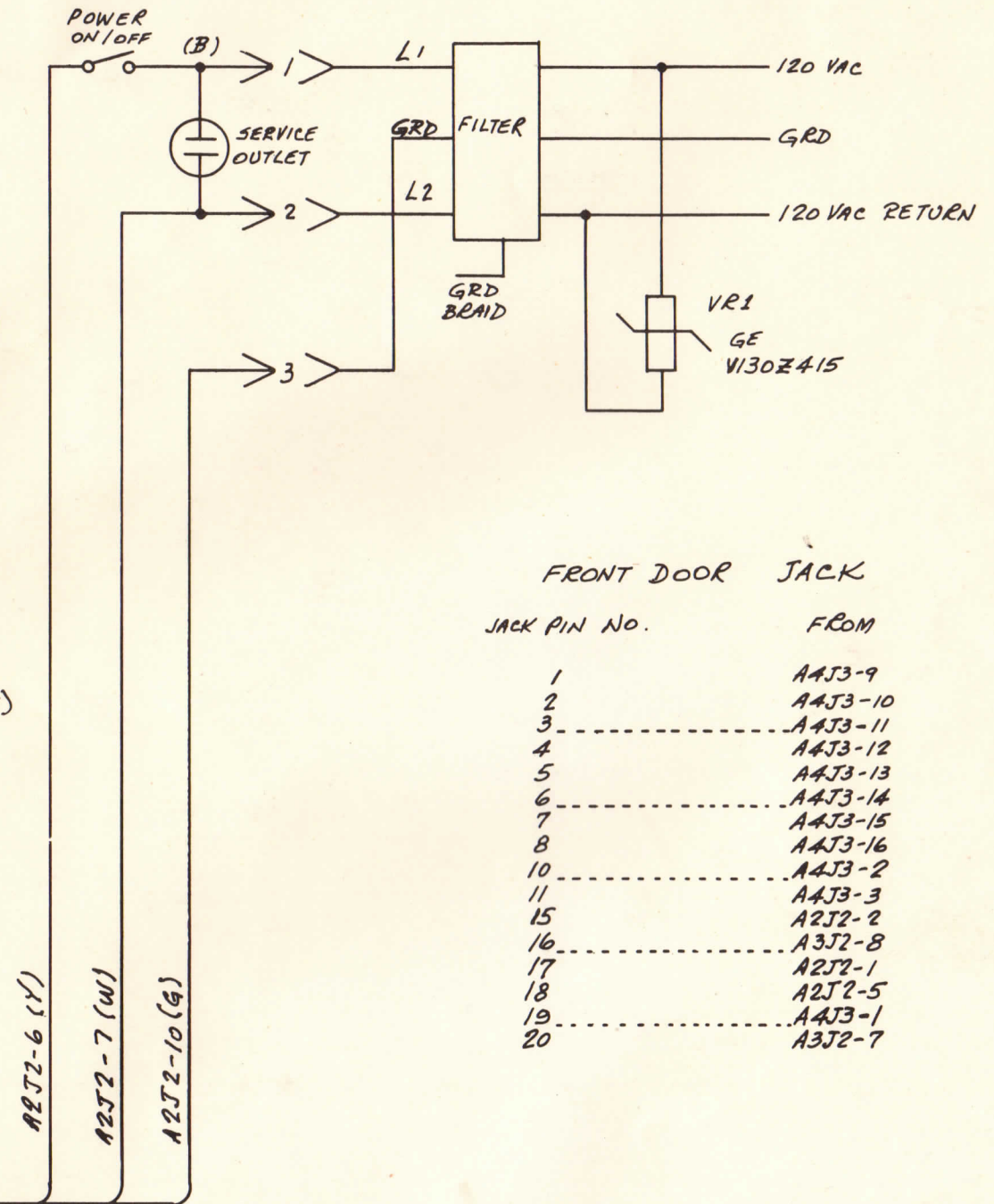
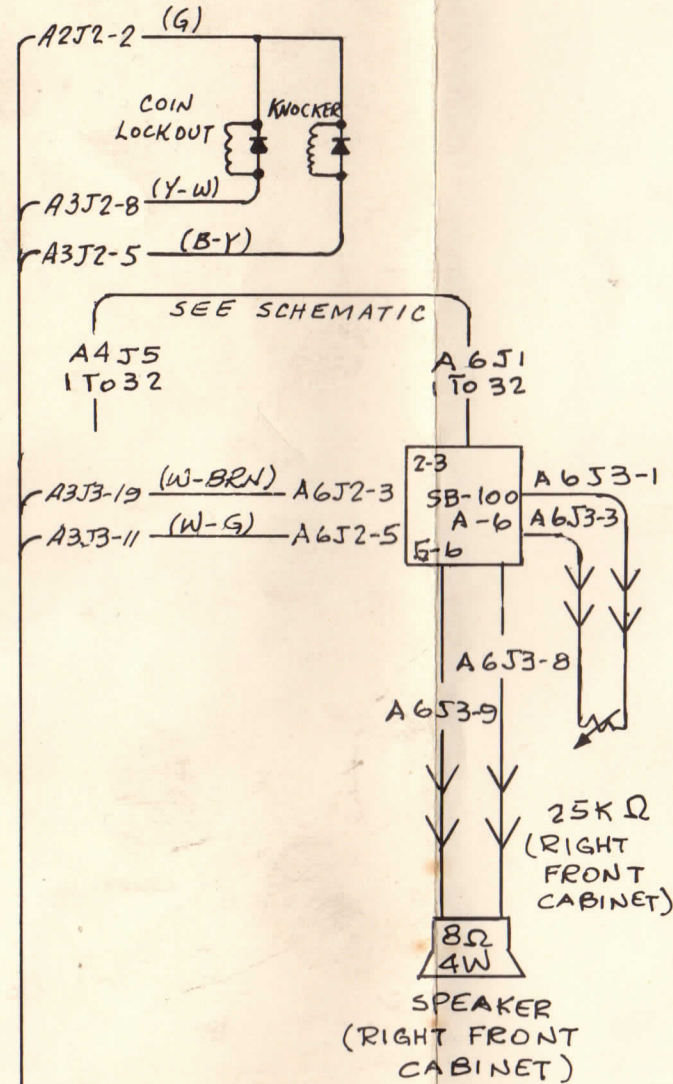
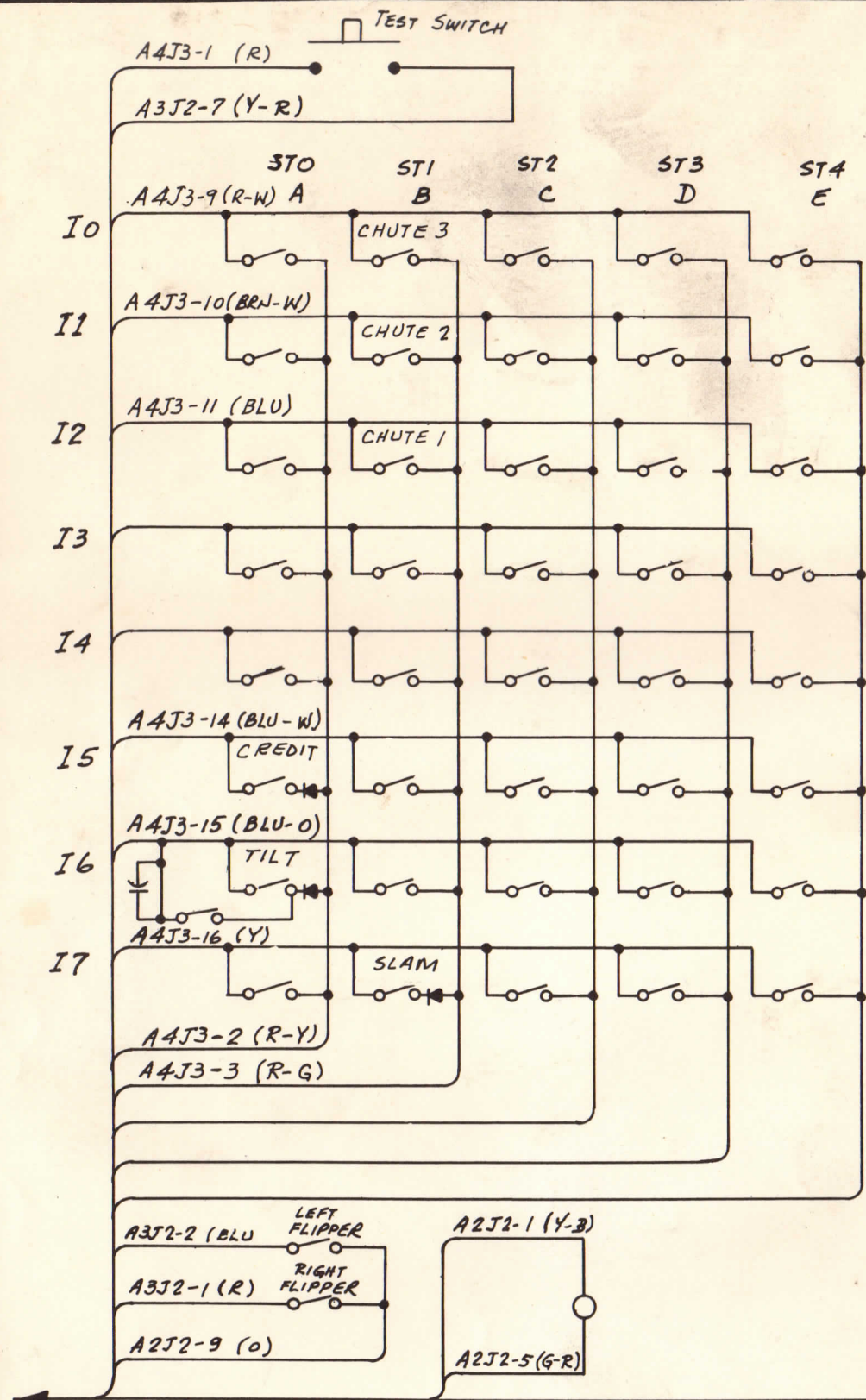




N/U = NOT USED
ALL DIODES ARE IN-4004

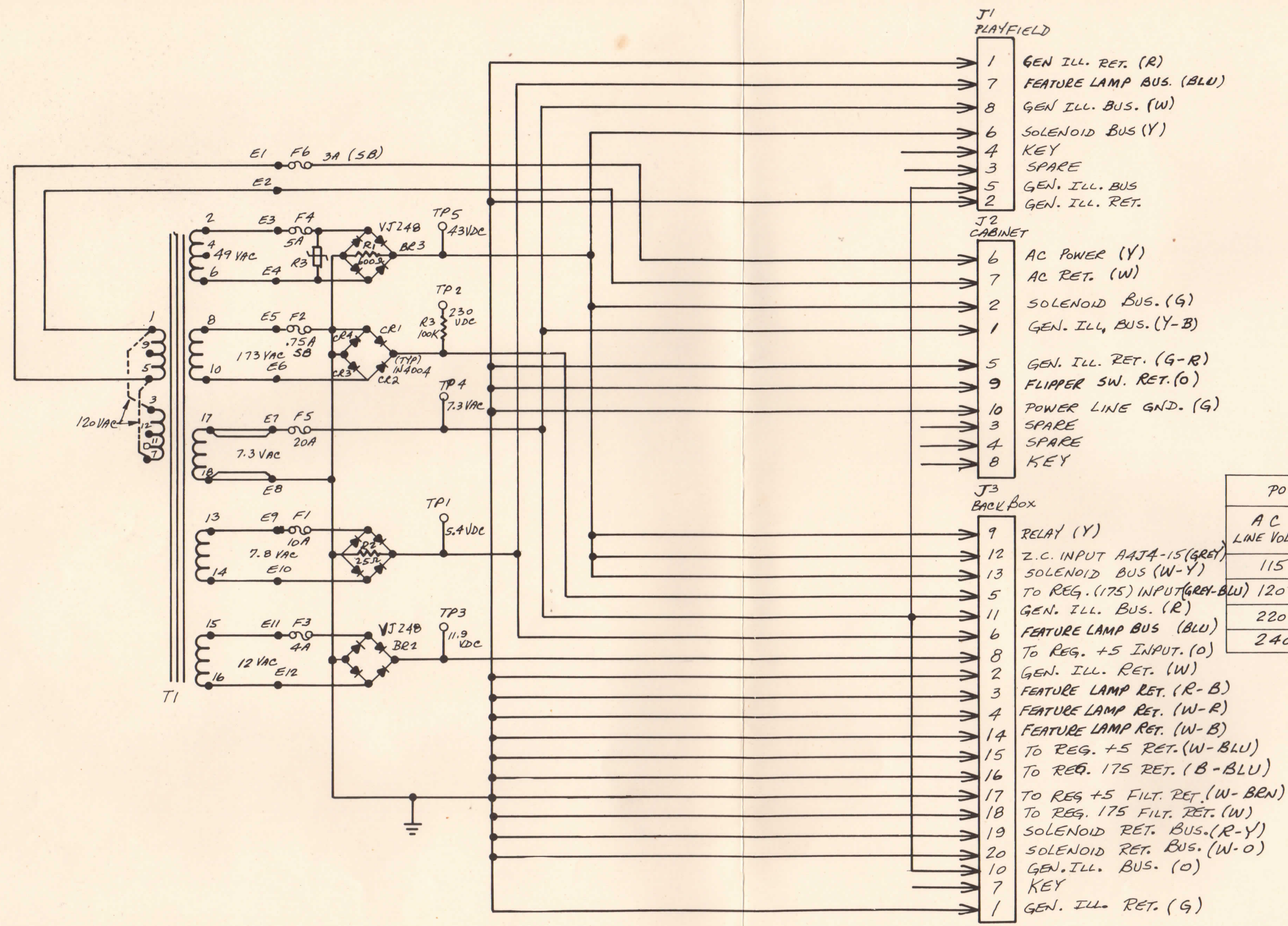
ISSUE	CHANGE	DATE

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 .003: 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		
CABINET AND FRONT DOOR WIRING		
FOR GENERAL		
DRN. J.J.	DATE	AM'T
MAT	FIN.	APPR.



ABBREVIATIONS USED.
GEN ILL. = GENERAL ILLUMINATION
RET. = RETURN
GND = GROUND
REG = REGULATED
Z.C. = ZERO CROSSING

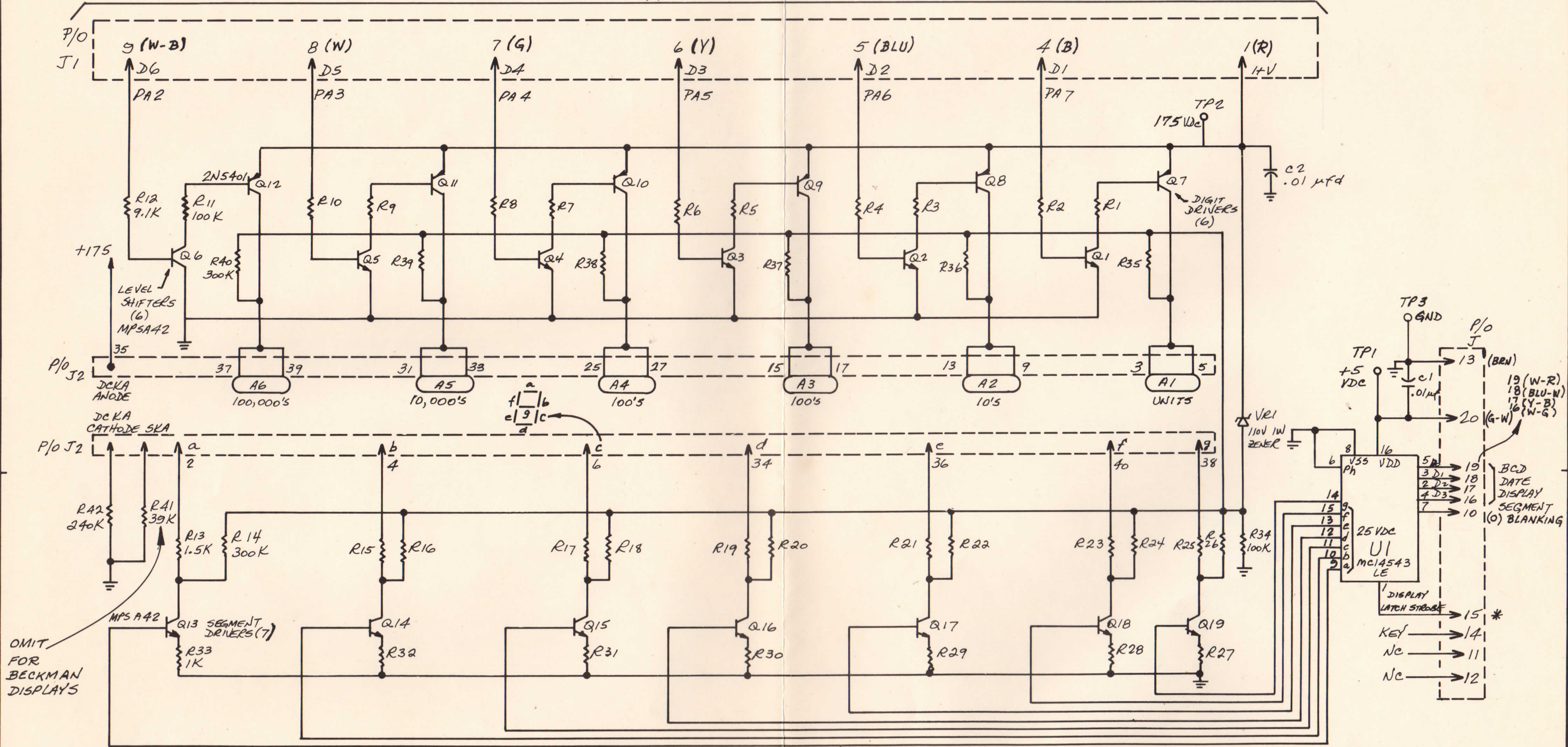
POWER LINE CONNECTIONS		
A C LINE VOLTAGE	STRAP TERMINALS	APPLY POWER TO TERMINALS
115	1 TO 3 AND 9 TO 11	1 AND 9
120	1 TO 3 AND 5 TO 7	1 AND 5
220	3 TO 5	1 AND 12
240	3 TO 5	1 AND 7

ISSUE	CHANGE	DATE

SCALE: *40*
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		
POWER TRANSFORMER MODULE SCHEMATIC		
FOR STINGRAY SOLID STATE		
DRN. J.J.	DATE 9-20-77	AM'T <i>W</i>
MAT <i>LMS</i>	FIN. <i>LMS</i>	APPR. <i>W</i>

DISPLAY DIGIT ENABLE

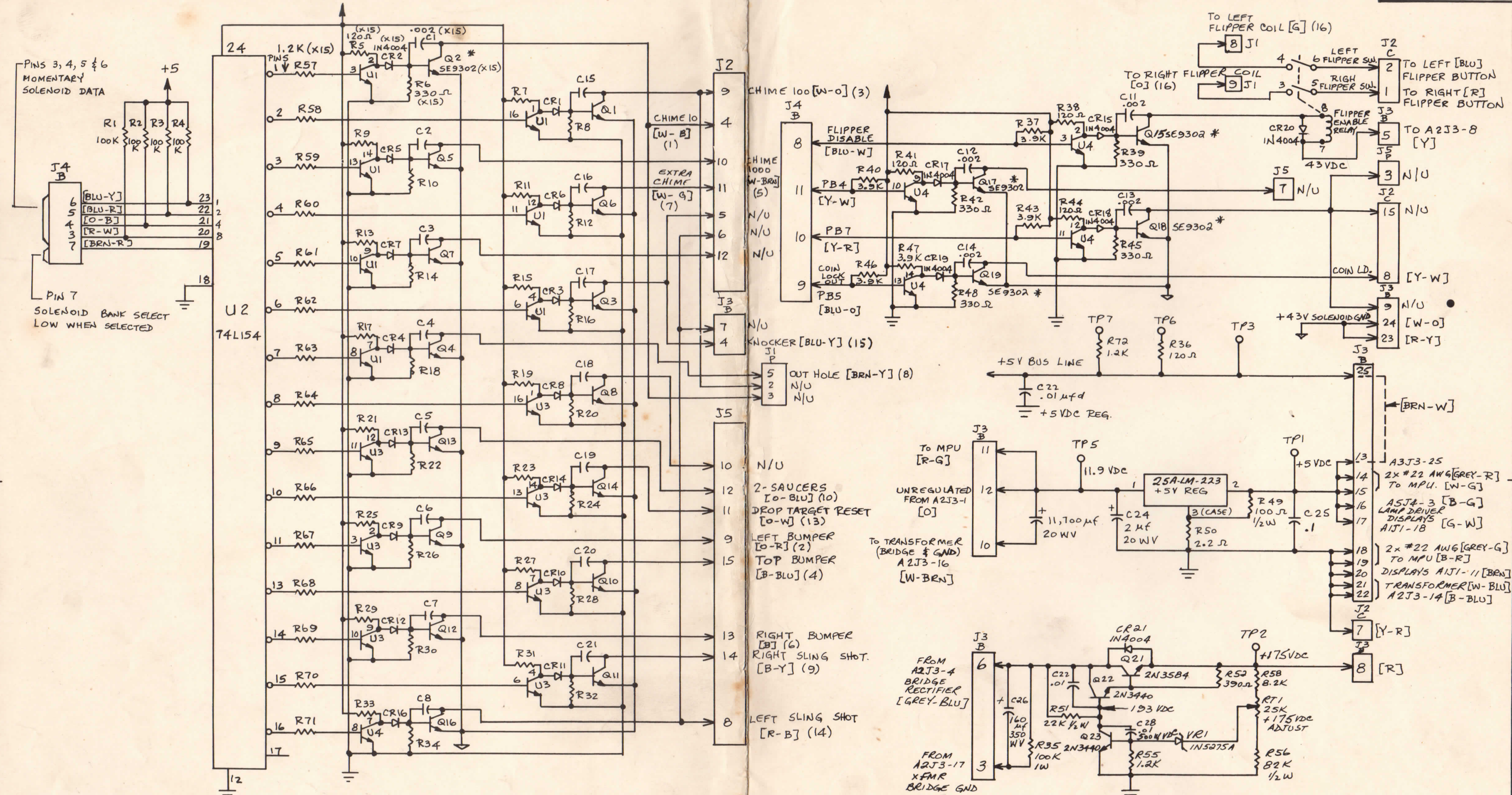


*
PIN 15 WIRE COLOR
1ST. PLAYER B-W
2ND PLAYER Y-R
3RD. PLAYER O-BLU
4TH. PLAYER BRN-O
MATCH/BALL R-B

SCALE: L#7 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 ±30° unless otherwise specified.

STERN ELECTRONICS INC.		
1725 DIVERSEY BLVD. CHICAGO 60614		
DISPLAY BOARD SCHEMATIC		
FOR STINGRAY SOLID STATE		
DRN. J.J.	DATE 9-20-77	AM'T L#
MAT L#	FIN. L#	APPR.



* SE9302 SUBSTITUTE 2N6045
[BRN-Y] = WIRE COLOR
(8) = SOLENOID TEST DISPLAY NO.

ISSUE	CHANGE	DATE

SCALE: *cm*

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.

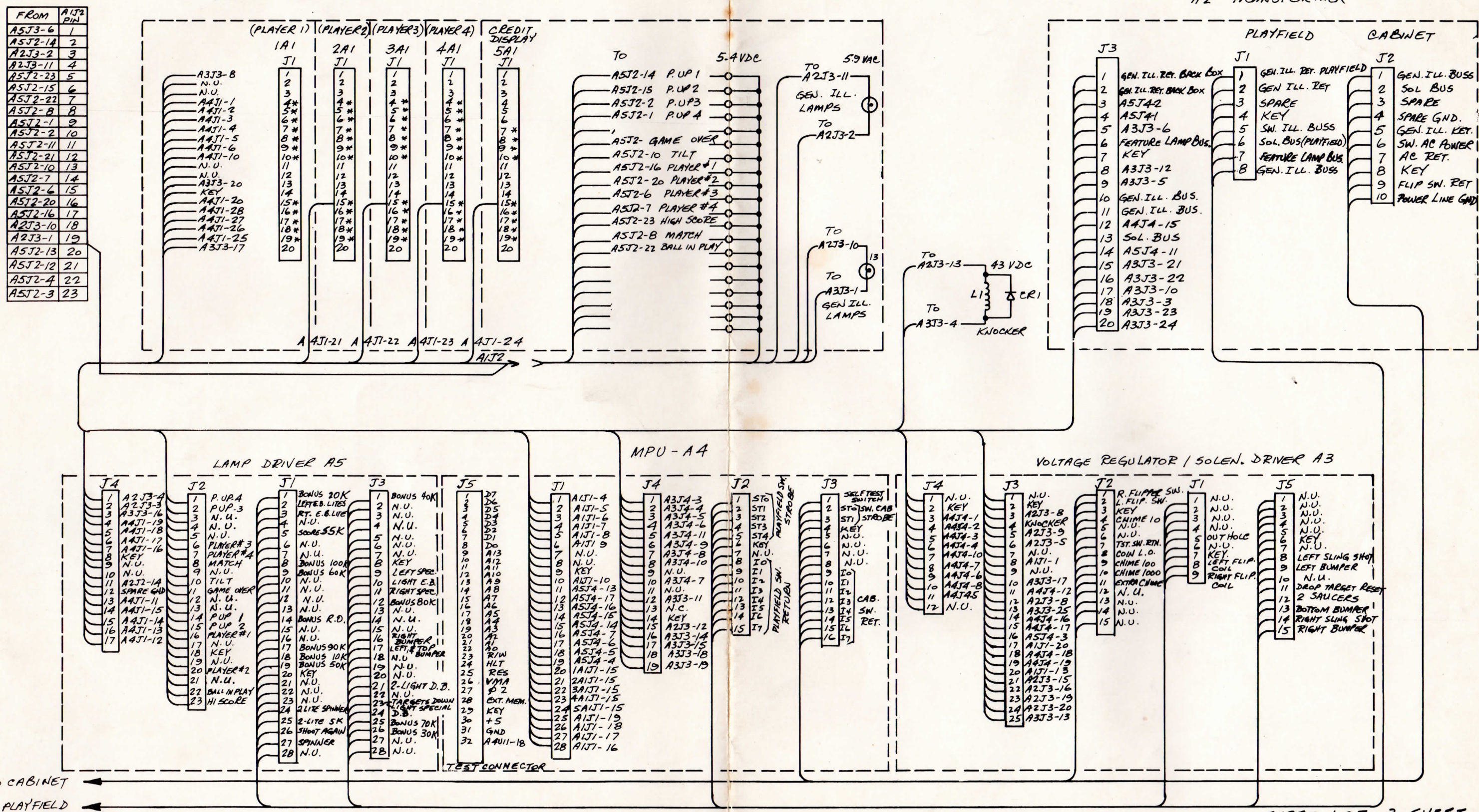
STERN ELECTRONICS INC.
1725 DIVERSEY BLVD. CHICAGO 60614

**SOLENOID DRIVER
VOLTAGE REGULATOR SCHEMATIC**
FOR **STINGRAY SOLID STATE**

DRN. <i>J.T.</i>	DATE 9-20-77	AM'T <i>cm</i>
MAT <i>cm</i>	FIN. <i>cm</i>	APPR. <i>cm</i>

AI INSERT

A2 TRANSFORMER



SEE INDIVIDUAL SCHEMATIC DRAWINGS FOR WIRE COLORS.

SHEET 1 OF 3 SHEET

STERN ELECTRONICS INC.
1725 DIVERSEY BLVD. CHICAGO 60614

WIRING DIAGRAM

FOR STINGRAY SOLID STATE

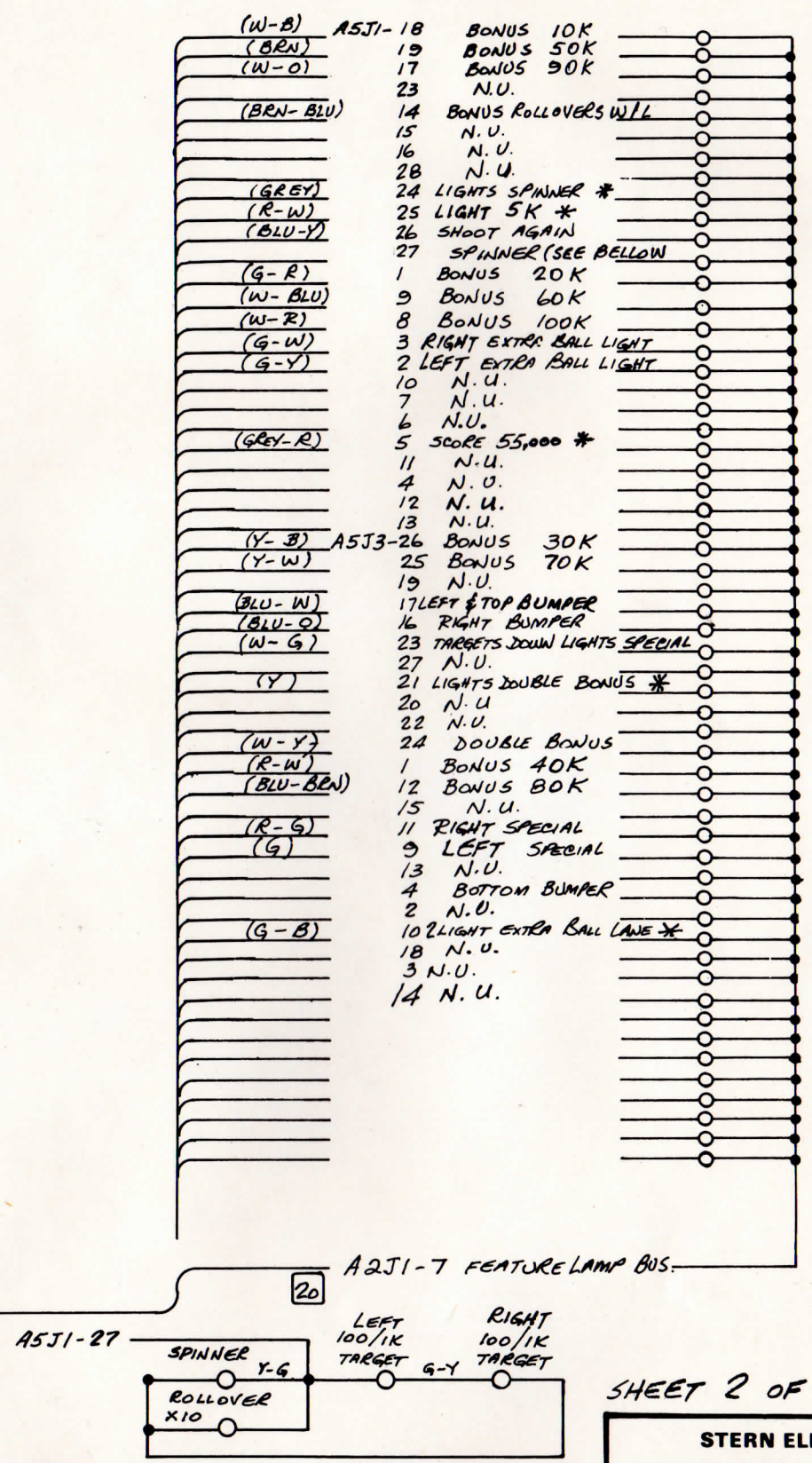
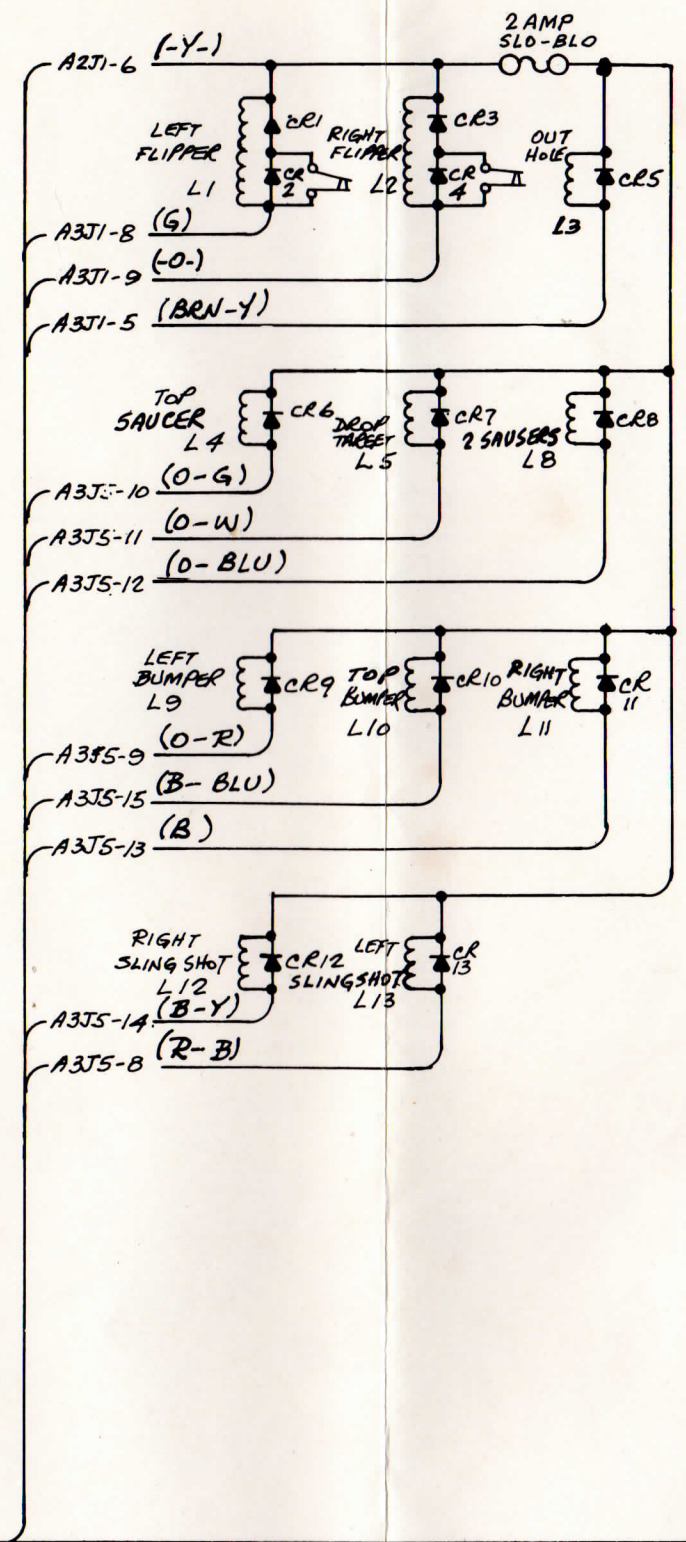
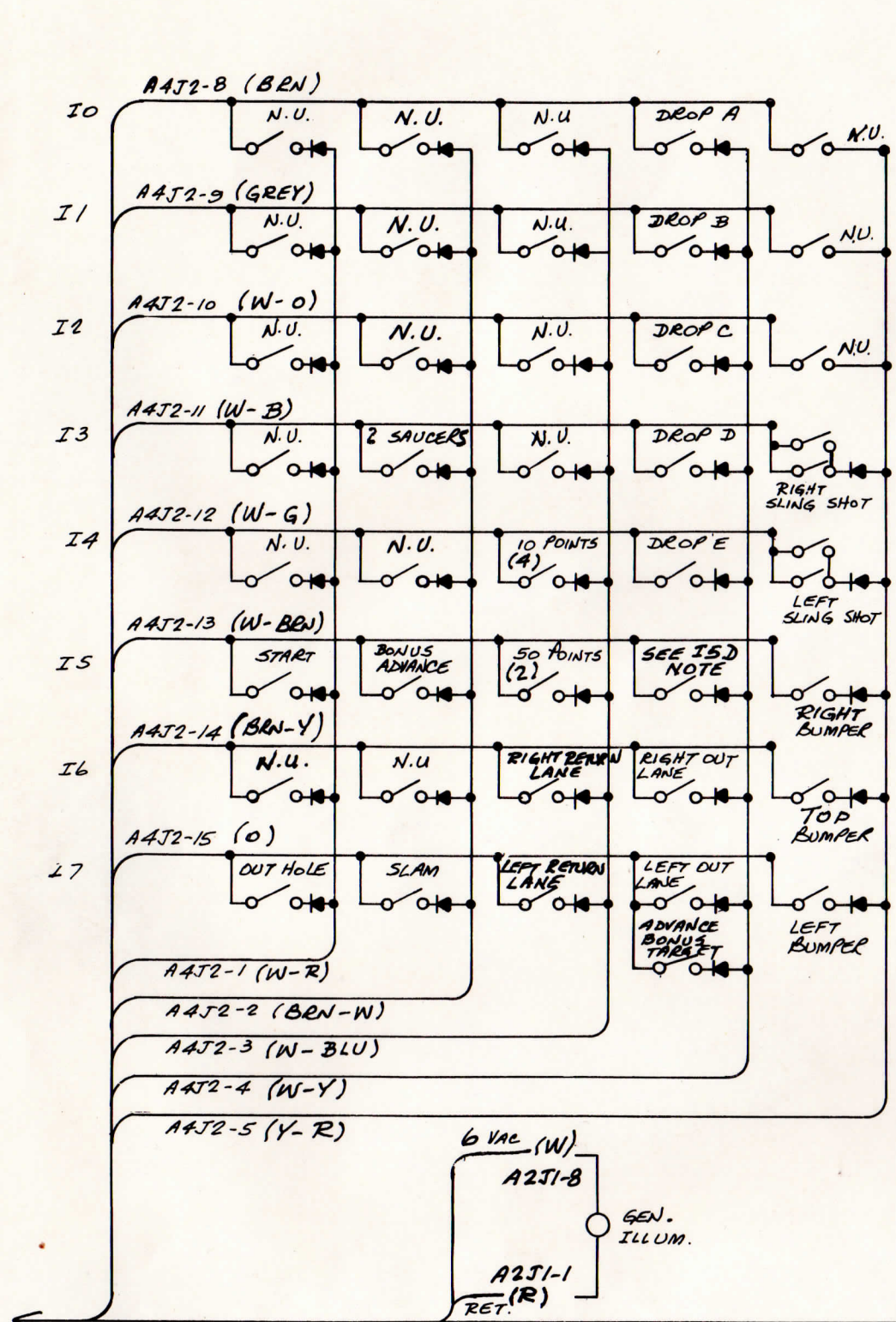
DRN J, J,	DATE 9-21-77	AMT 4
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MAT LAD	FIN. LAD	APPR.
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SCALE: *CH*

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 $\pm 30'$ unless otherwise specified.



* HOLE FEATURE LITE

NOTE:
15D - SPINNER CONTACT
(2) 100/1K TARGETS
(5) 100/1K ROLL OVER BUTTONS

PLAYFIELD

ISSUE	CHANGE	DATE

SCALE: 1/4" = 1"

PART MUST BE FREE OF BURRS

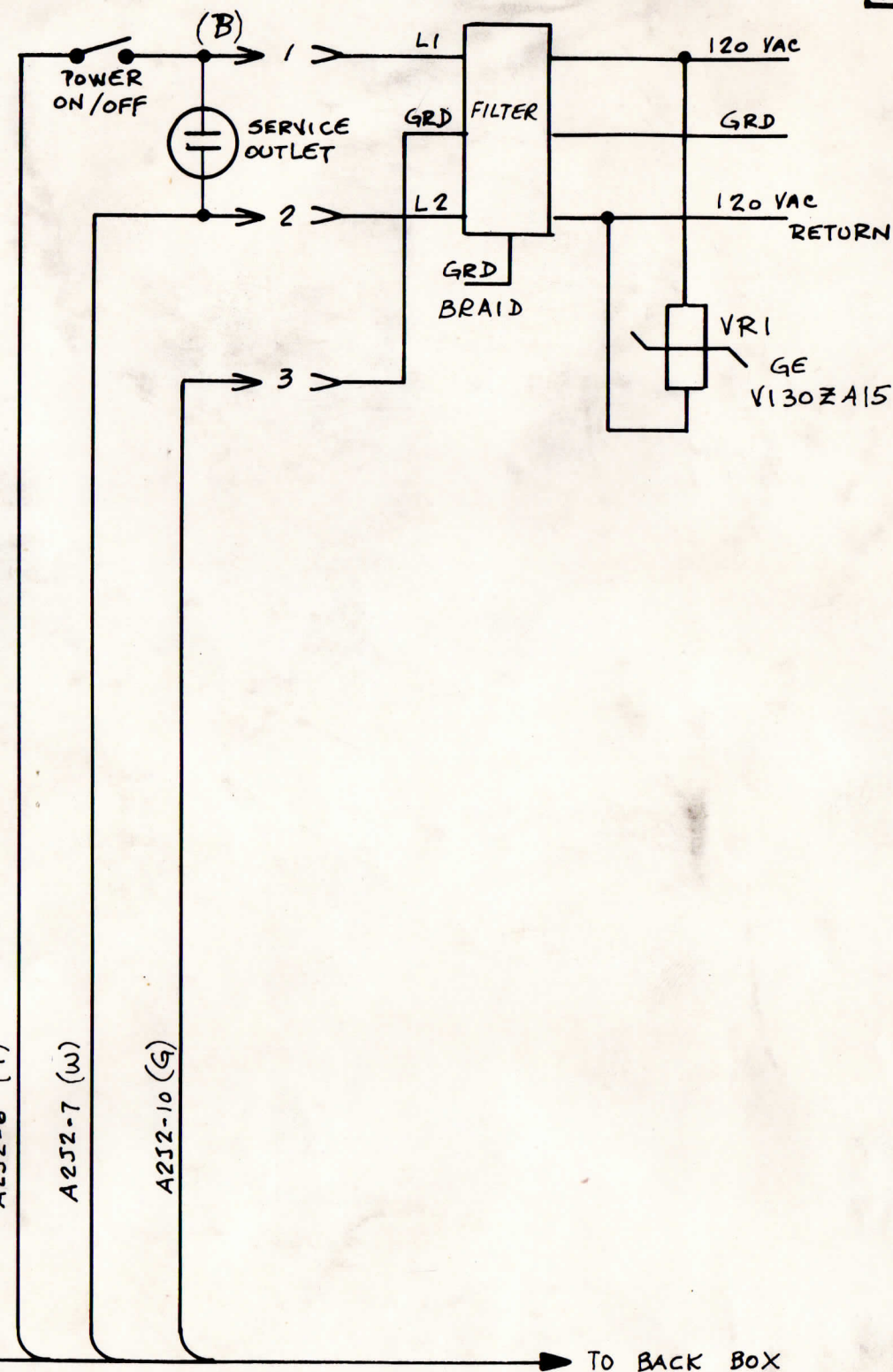
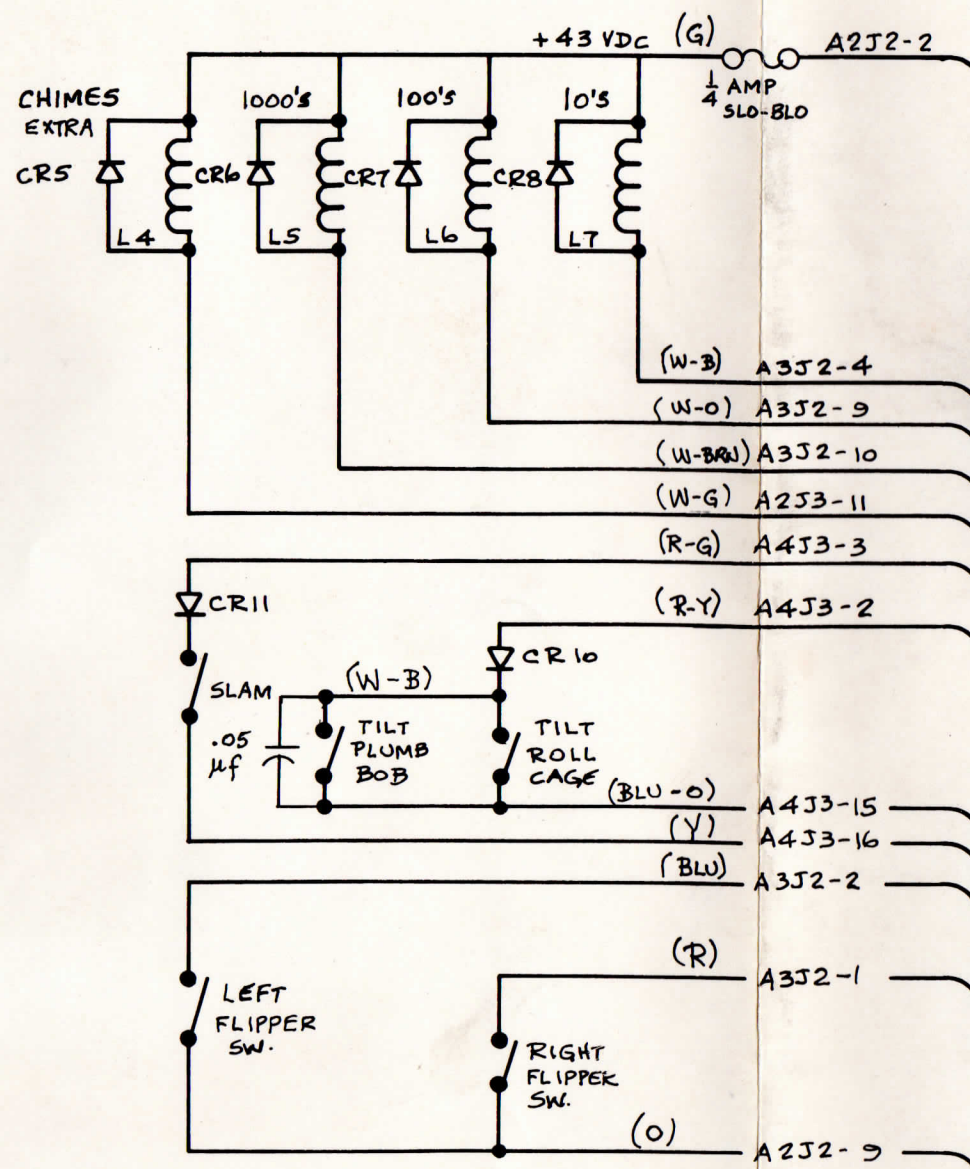
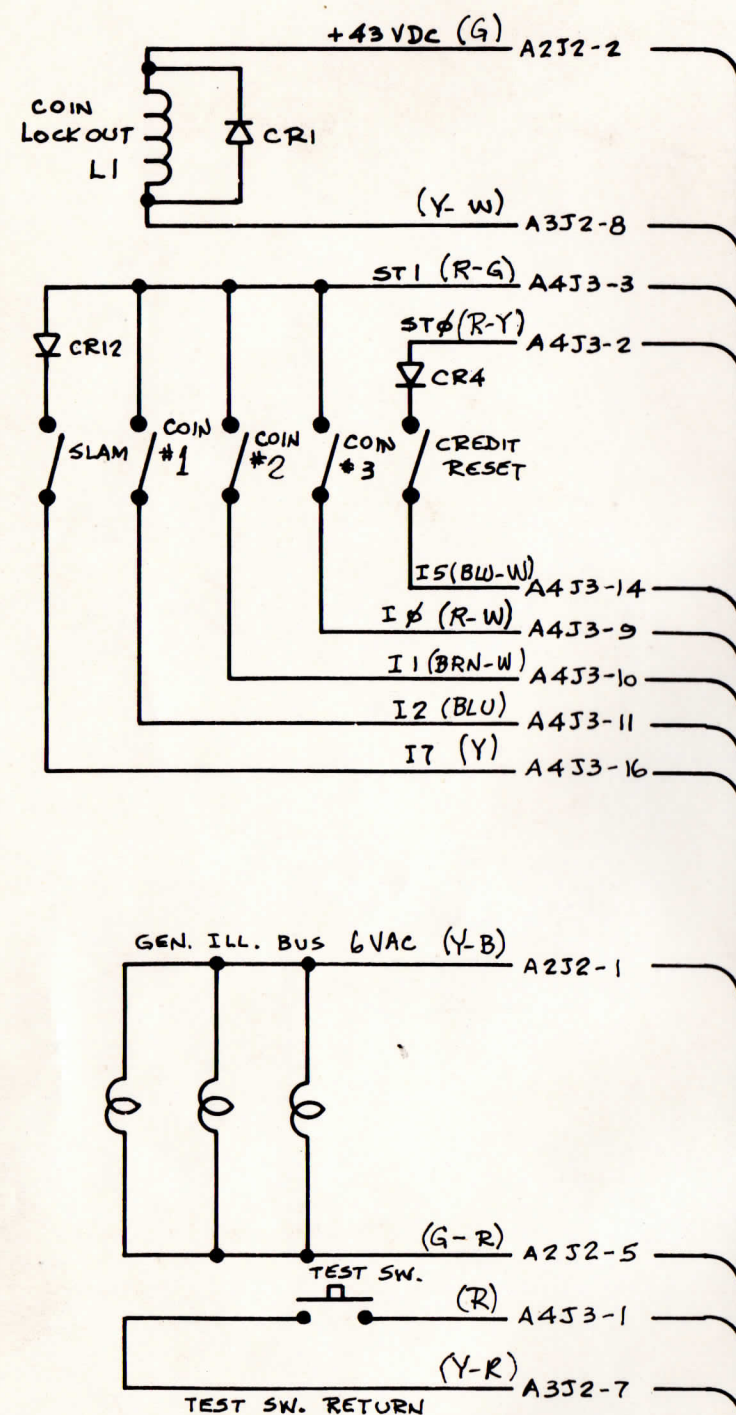
Unless otherwise specified, all fractional dimensions carry tolerances of plus and minus .010: All decimal dimensions plus and minus .005. Exceptions: Drilled holes plus .003 minus .001. Die casting fractional plus and minus .005: Decimal plus and minus .003. Decimal dimensions on tools plus and minus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

SHEET 2 OF 3 SHEETS

STERN ELECTRONICS INC.
1725 DIVERSEY BLVD. CHICAGO 60614

WIRING DIAGRAM
FOR STINGRAY SOLID STATE

DRN. J.T.	DATE 9-20-77	AM'T 47
MAT 47	FIN. 47	APPR.



J1- PIN 1 - A4J3-9
 J1- PIN 2 - A4J3-10
 J1- PIN 3 - A4J3-11
 J1- PIN 4 - A4J3-12
 J1- PIN 5 - A4J3-13
 J1- PIN 6 - A4J3-14
 J1- PIN 7 - A4J3-15
 J1- PIN 8 - A4J3-16
 J1- PIN 10 - A4J3-2
 J1- PIN 11 - A4J3-3
 J1- PIN 15 - COIN LOCKOUT
 J1- PIN 16 - A3J2-8
 J1- PIN 17 - A2J2-1
 J1- PIN 18 - A2J2-5
 J1- PIN 19 - A4J3-1
 J1- PIN 20 - A3J2-7

POWER

ISSUE	CHANGE	DATE

SCALE: $\frac{1}{4}$ " = 1"

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.

SHEET 3 OF 3 SHEETS

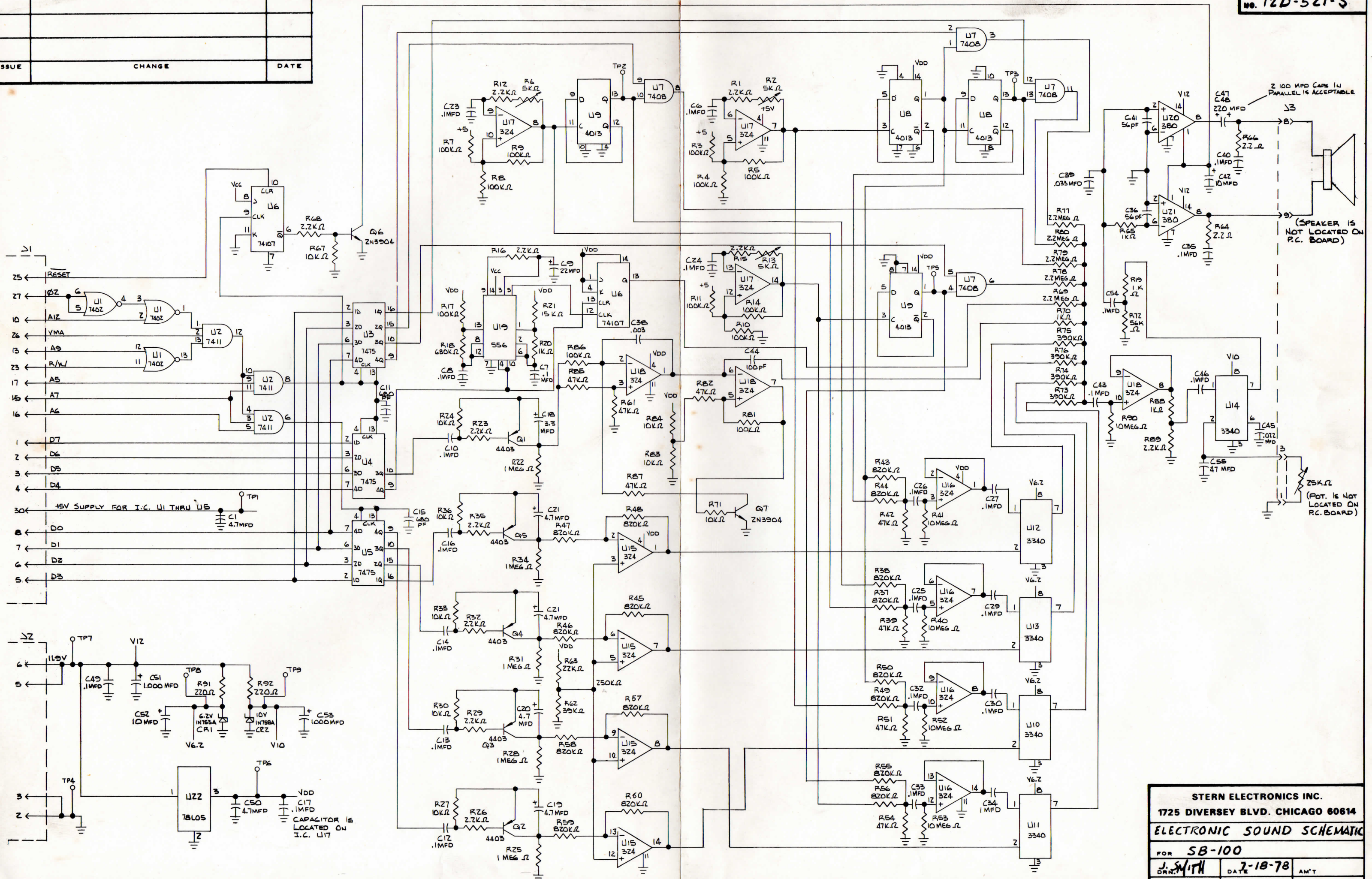
STERN ELECTRONICS INC.
 1725 DIVERSEY BLVD. CHICAGO 60614

WIRING DIAGRAM

FOR SOLID STATE

DRN.	DATE	AM'T
J.T.	9-20-70	47
MAT	FIN.	APPR.
47	47	

ISSUE	CHANGE	DATE

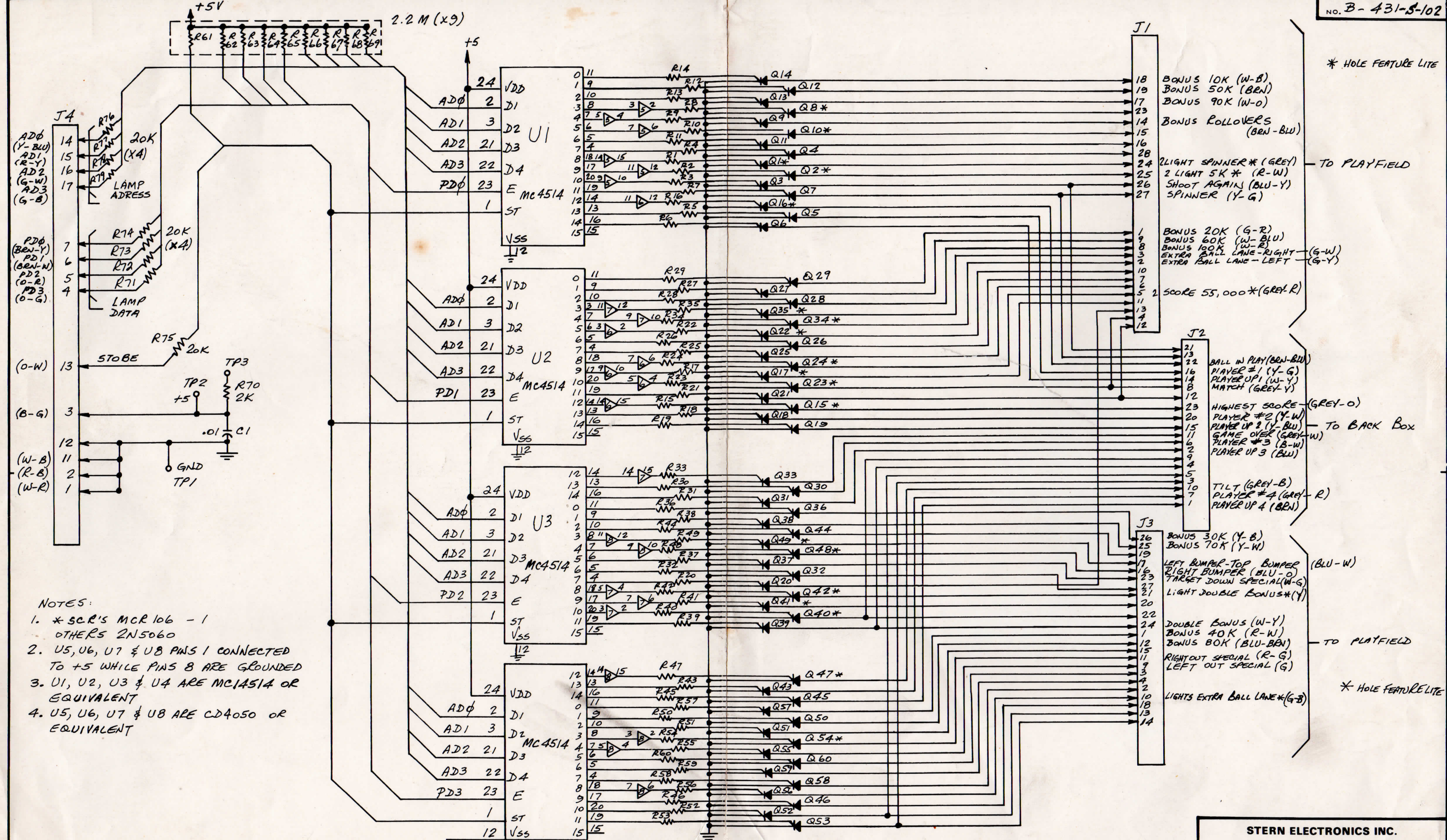


STERN ELECTRONICS INC.
1725 DIVERSEY BLVD. CHICAGO 60614

ELECTRONIC SOUND SCHEMATIC

FOR **SB-100**

DRN. J. Smith	DATE 7-18-78	AM'T
MAT	FIN.	APPR.



- NOTES:
- * SCR'S MCR 106 - 1
OTHERS 2N5060
 - U5, U6, U7 & U8 PINS 1 CONNECTED
TO +5 WHILE PINS 8 ARE GROUNDED
 - U1, U2, U3 & U4 ARE MC4514 OR
EQUIVALENT
 - U5, U6, U7 & U8 ARE CD4050 OR
EQUIVALENT

1725 DIVERSEY BLVD. CHICAGO 60614		
LAMP DRIVER SCHEMATIC		
FOR STINGRAY SOLID STATE		
DRN. C.W.	DATE 9-21-77	AM'T CH
MAT CH	FIN. CH	APPR.

SCALE: CH	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.		
ISSUE	CHANGE	DATE