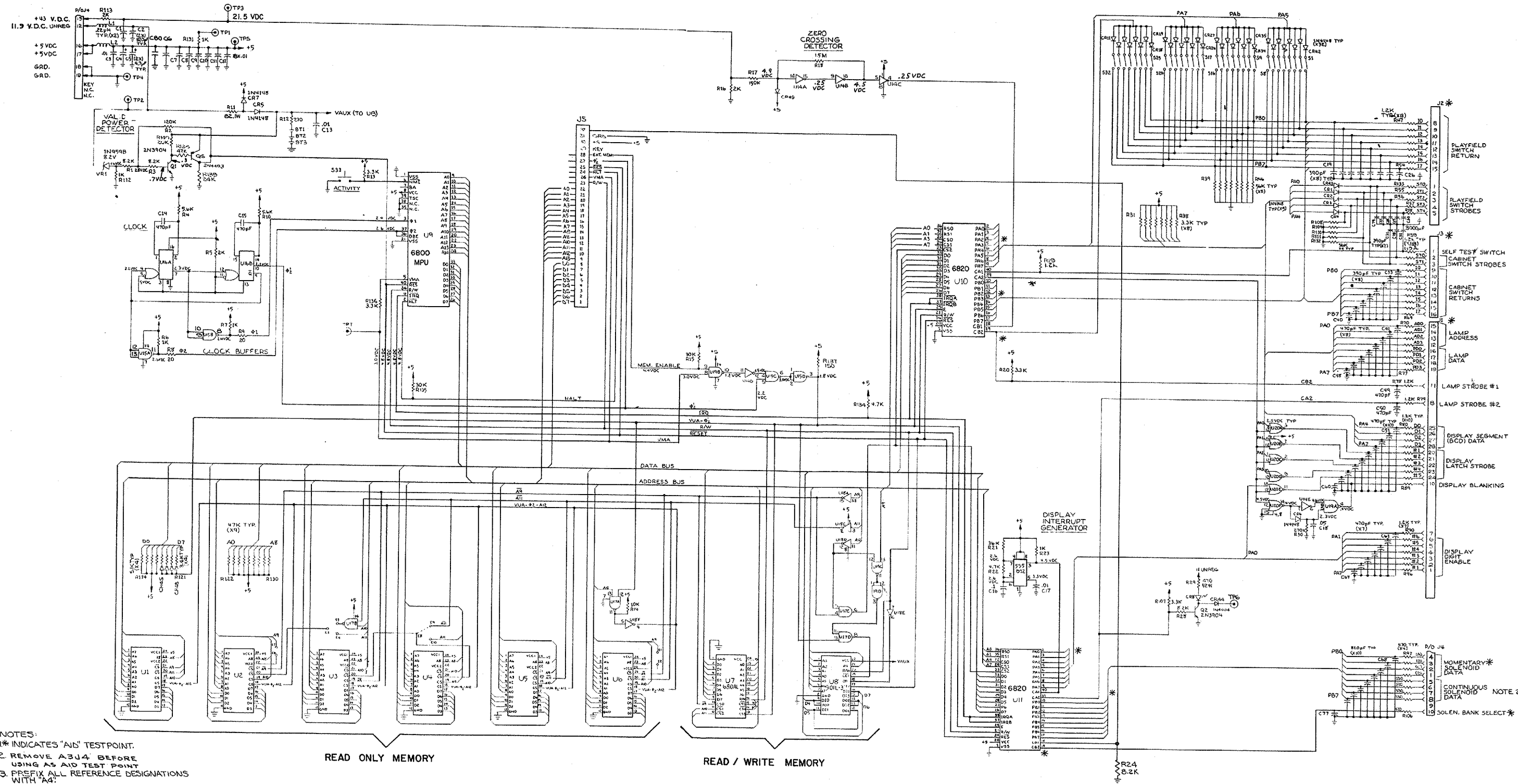




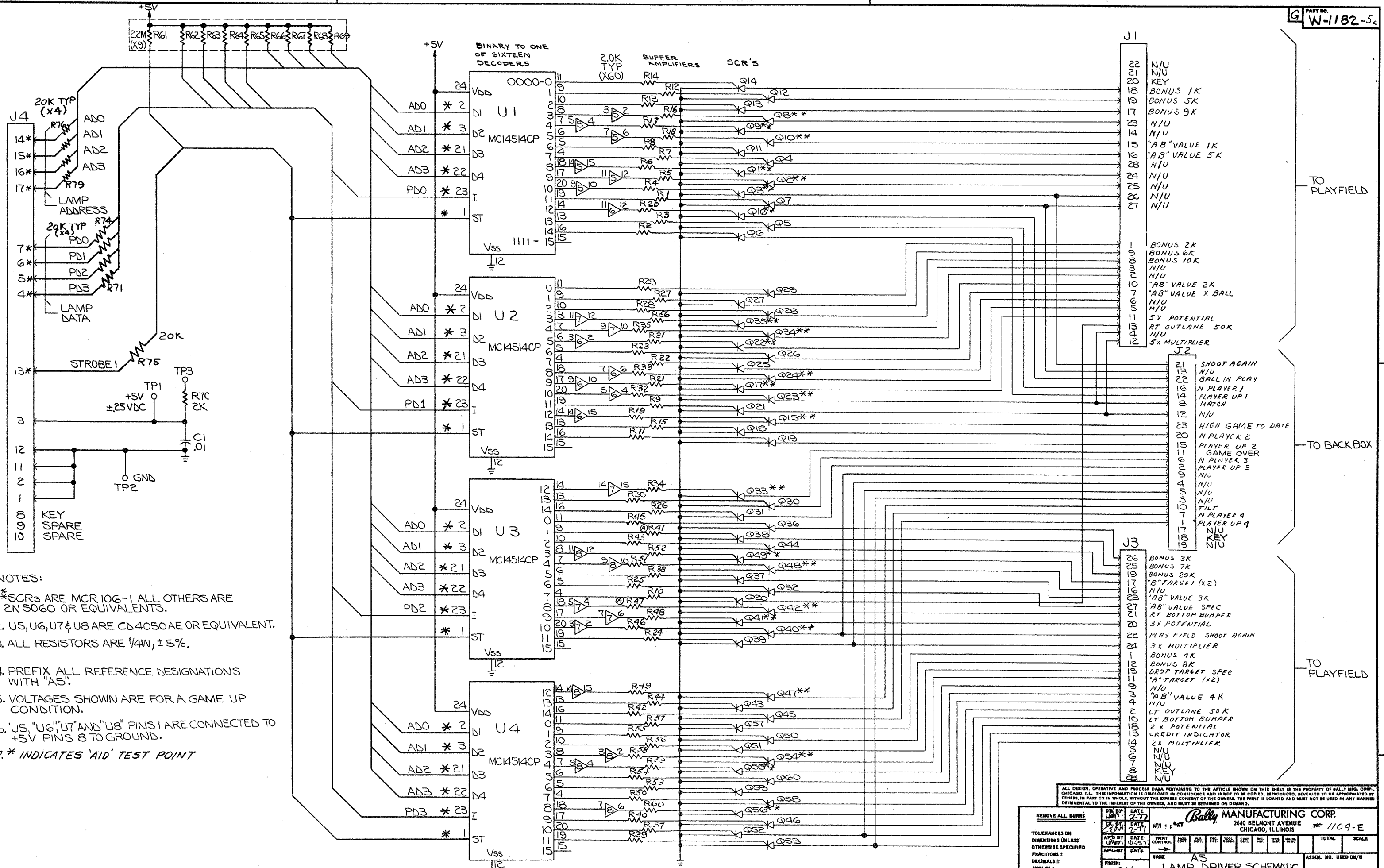
NOTES:
 1. * INDICATES "AID" TESTPOINT.
 2. REMOVE A3J4 BEFORE USING AS AID TEST POINT.
 3. PREFIX ALL REFERENCE DESIGNATIONS WITH "A4".

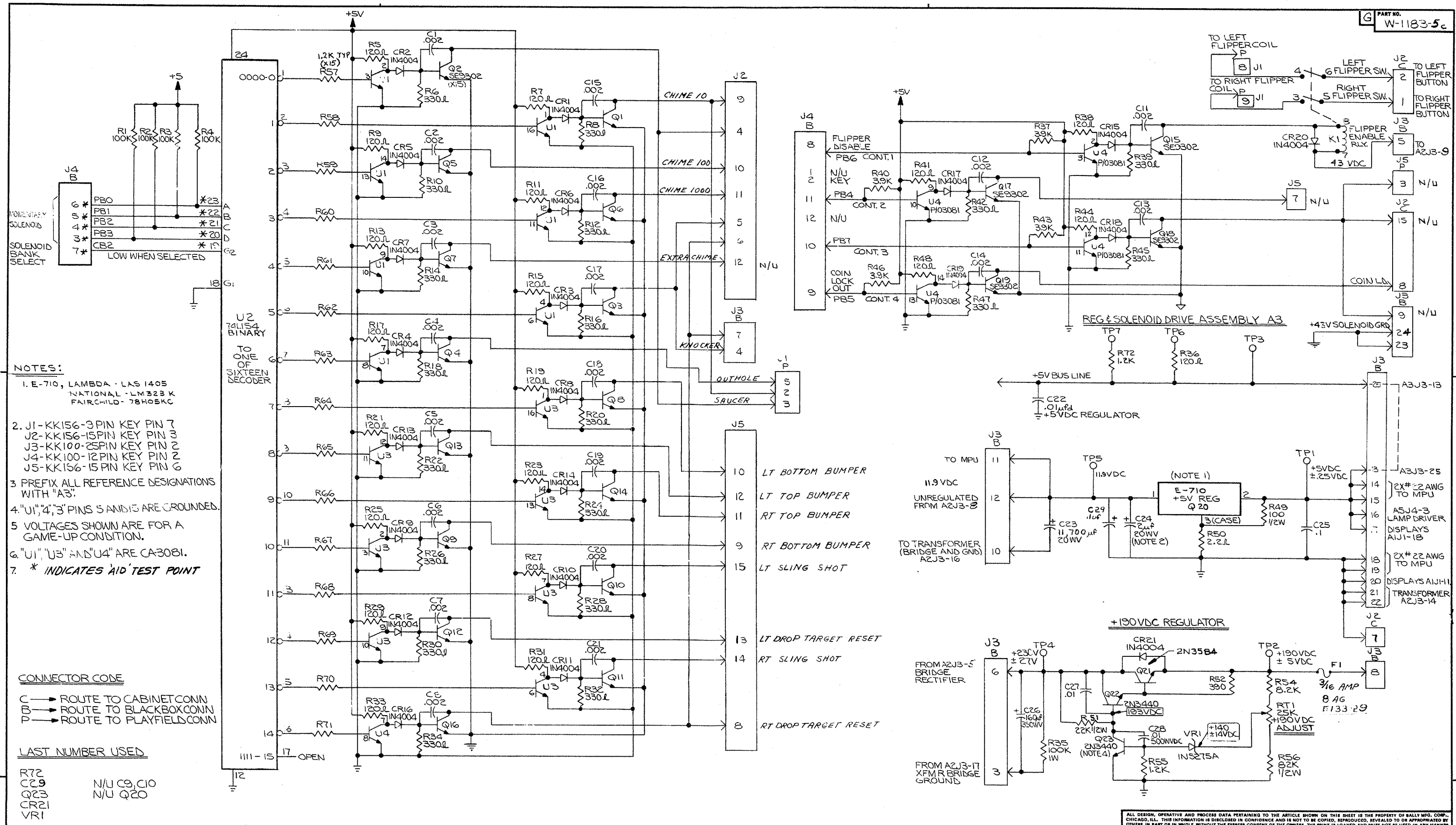
READ ONLY MEMORY

READ / WRITE MEMORY

ALL DESIGN, OPERATIVE AND PROCESS DATA PERTAINING TO THE ARTICLE SHOWN ON THIS SHEET IS THE PROPERTY OF BALLY MFG. CORP., CHICAGO, ILL. THIS INFORMATION IS DISCLOSED IN CONFIDENCE AND IS NOT TO BE COPIED, REPRODUCED, REVEALED OR APPROPRIATED BY OTHERS, IN PART OR IN WHOLE WITHOUT THE EXPRESS CONSENT OF THE OWNERS. THE PRINT IS LOANED AND MUST NOT BE USED IN ANY MANNER DETRIMENTAL TO THE INTEREST OF THE OWNERS, AND MUST BE RETURNED ON DEMAND.

REMOVE ALL BURNS		DR. BY DATE 2-27		Bally MANUFACTURING CORP. 1094-E 2640 BELMONT AVENUE CHICAGO, ILLINOIS		FEB 21 1977		TOTAL		SCALE	
TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED		APPROVED BY DATE 2-27		PRINT CONTROL		NAME		MATERIAL		ASSEMB. NO. USED ON/W	
FRACTIONS: 1/64		FINISH:		HARDENING:		MATERIAL		PART NO.		W-1181-2c	
DECIMALS: ± .005		DO NOT SCALE DRAWING									
ANGLES: ± 2°											
NO.	LET.	CHANGE	DATE	BY	CK.						





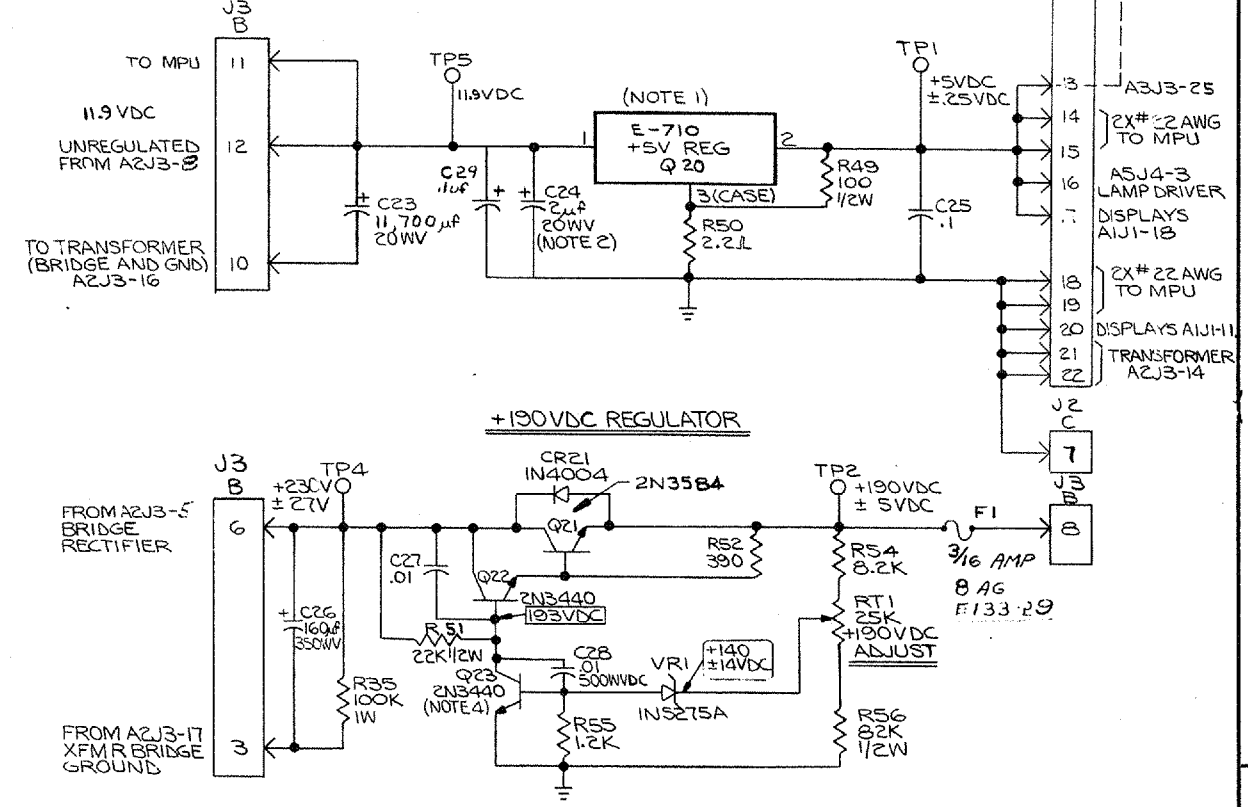
- NOTES:**
1. E-710, LAMBDA - LAS 1405
NATIONAL - LM323 K
FAIRCHILD - 78H05KC
 2. J1-KK156-3 PIN KEY PIN 7
J2-KK156-15 PIN KEY PIN 3
J3-KK100-25 PIN KEY PIN 2
J4-KK100-12 PIN KEY PIN 2
J5-KK156-15 PIN KEY PIN 6
 3. PREFIX ALL REFERENCE DESIGNATIONS WITH "A3".
 4. "U1", "U4", "U3" PINS 5 AND 13 ARE GROUNDED.
 5. VOLTAGES SHOWN ARE FOR A GAME-UP CONDITION.
 6. "U1", "U3" AND "U4" ARE CA3081.
 7. * INDICATES AID TEST POINT

CONNECTOR CODE

C → ROUTE TO CABINET CONN
B → ROUTE TO BLACKBOX CONN
P → ROUTE TO PLAYFIELD CONN

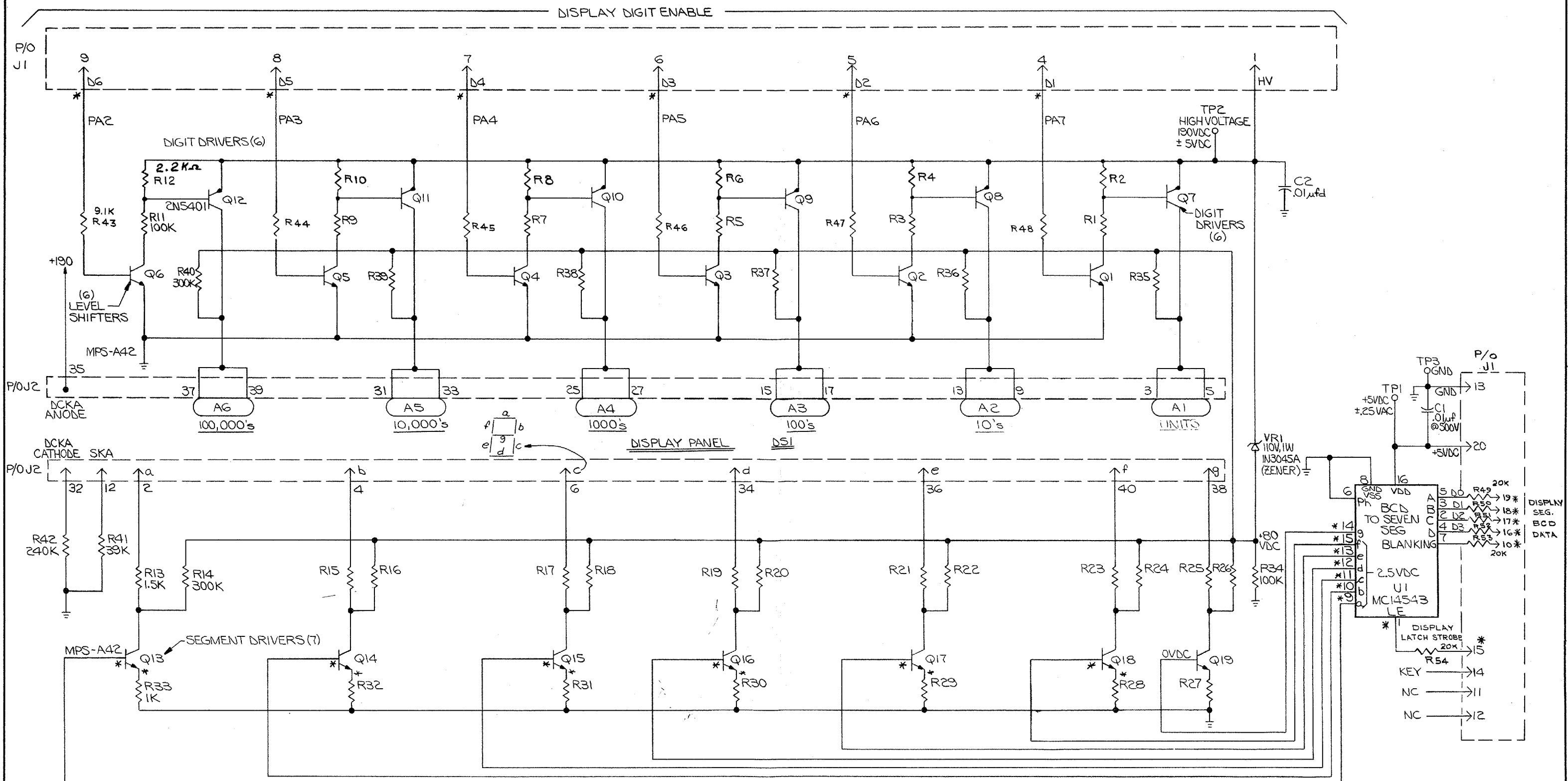
LAST NUMBER USED

R72 N/U C9, C10
C29 N/U Q20
Q23
CR21
VR1



ALL DESIGN, OPERATIVE AND PROCESS DATA PERTAINING TO THE ARTICLE SHOWN ON THIS SHEET IS THE PROPERTY OF BALLY MFG. CORP., CHICAGO, ILL. THIS INFORMATION IS DISCLOSED IN CONFIDENCE AND IS NOT TO BE COPIED, REPRODUCED, REVEALED TO OR APPROPRIATED BY OTHERS, IN PART OR IN WHOLE, WITHOUT THE EXPRESS CONSENT OF THE OWNERS. THE PRINT IS LOANED AND MUST NOT BE USED IN ANY MANNER DETRIMENTAL TO THE INTEREST OF THE OWNERS, AND MUST BE RETURNED ON DEMAND.

REMOVE ALL BURNS TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED FRACTIONS ± DECIMALS ± ANGLES ± DO NOT SCALE DRAWING		DR BY: W-1183-5c CR BY: W-1183-5c AP'D BY: W-1183-5c DATE: 2-77 FINISH: W-1183-5c HARDENING: W-1183-5c	Bally MANUFACTURING CORP. 2640 BELMONT AVENUE CHICAGO, ILLINOIS 1104-E SOLENOID DRIVER VOLTAGE REGULATOR SCHEMATIC MATA HARI PART NO. W-1183-5c
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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 —

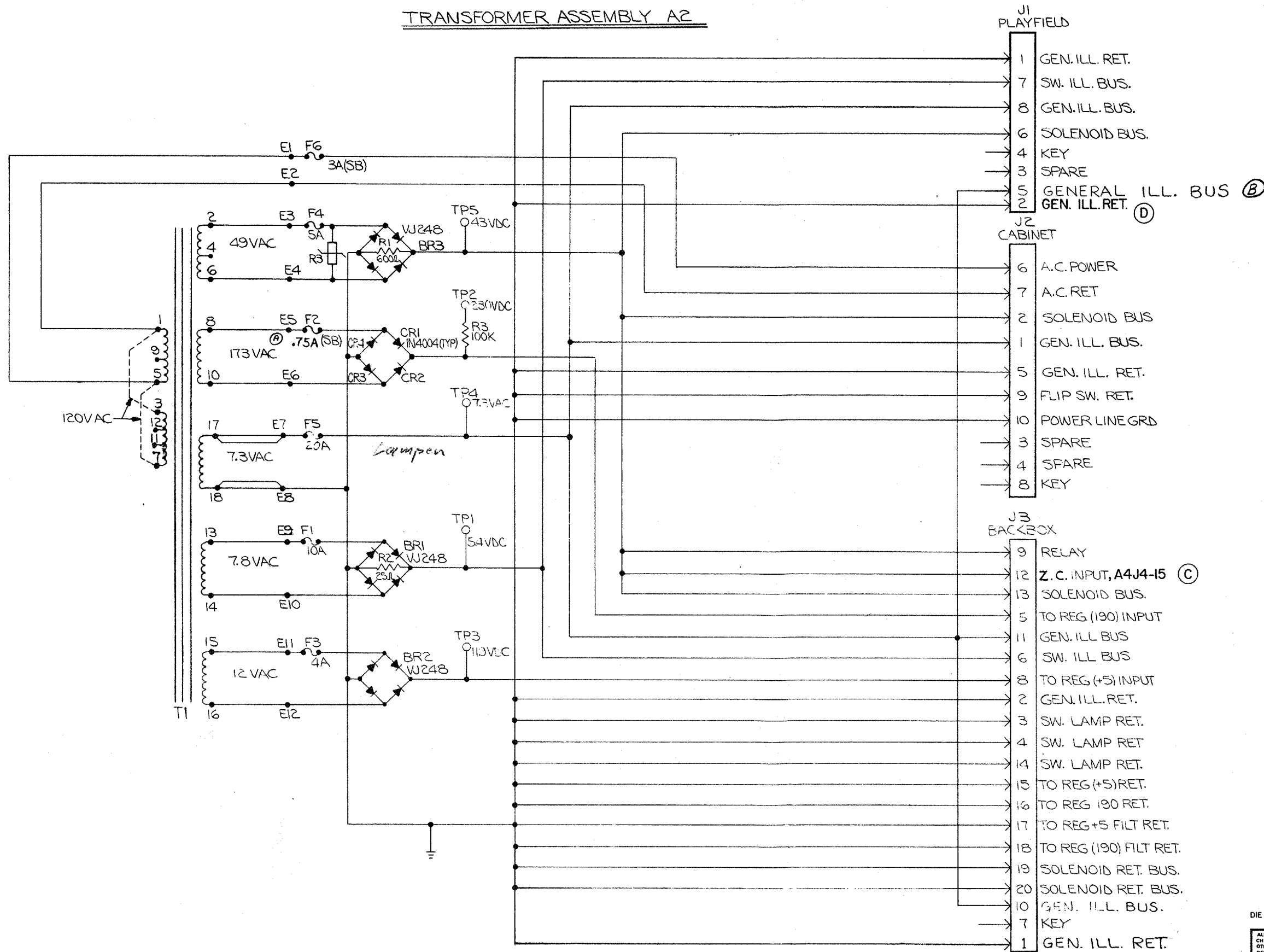
ALL DESIGN, OPERATIVE AND PROCESS DATA PERTAINING TO THE ARTICLE SHOWN ON THIS SHEET IS THE PROPERTY OF BALLY MFG. CORP., CHICAGO, ILL. THIS INFORMATION IS DISCLOSED IN CONFIDENCE AND IS NOT TO BE COPIED, REPRODUCED, REVEALED TO OR APPROPRIATED BY OTHERS, IN PART OR IN WHOLE, WITHOUT THE EXPRESS CONSENT OF THE OWNERS. THE PRINT IS LOANED AND MUST NOT BE USED IN ANY MANNER DETRIMENTAL TO THE INTEREST OF THE OWNERS, AND MUST BE RETURNED ON DEMAND.

REMOVE ALL BURRS		DR. BY: D.G. DATE: 7/77		Bally MANUFACTURING CORP. #1120-E	
TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED: FRACTIONS: DECIMALS: ANGLES:		CH. BY: DATE: 8/17/77		2640 BELMONT AVENUE CHICAGO, ILLINOIS 60618	
DO NOT SCALE DRAWING		PRINT CONTROL: []		TOTAL: 1	
		NAME: DISPLAY BOARD SCHEMATIC		ASSEM. NO. USED ON: AS-2518-21	
		MATERIAL:		PART NO. W-1184-1c	

OPER.	DEPT.	DESCRIPTION	TOOL No.
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NO.	LET.	CHANGE	DATE	BY	CHK.
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TRANSFORMER ASSEMBLY A2



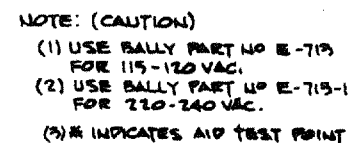
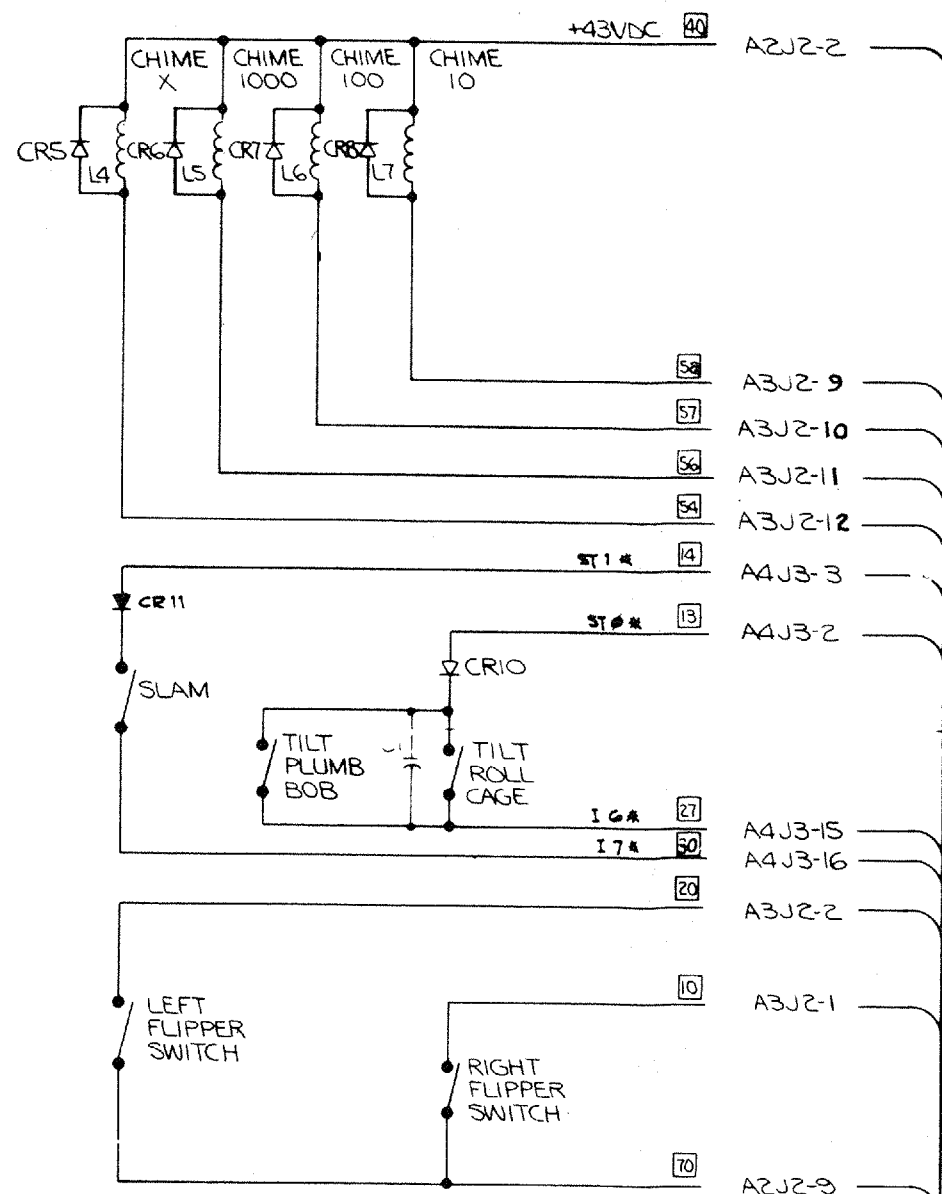
- NOTES:
1. WIRE A.C. POWER AND TERMINALS PER TABLE 1.
 2. VOLTAGES SHOWN ARE FOR GAME IN POWER-UP CONDITION.
 3. PREFIX ALL REFERENCE DESIGNATIONS WITH A2.

TABLE 1 POWER LINE CONNECTIONS		
LINE VOLTAGE VRMS A.C.	STRAP TERMINALS	APPLY POWER TO TERMINALS
115	1T03 AND 9T011	1 AND 9
120	1T03 AND 5T07	1 AND 5
220	3T05	1 AND 12
240	3T05	1 AND 7

DIE SIZE — C.C. — FT. PER M — LBS. PER M — 1118-E

ALL DESIGN, OPERATIVE AND PROCESS DATA PERTAINING TO THE ARTICLE SHOWN ON THIS SHEET IS THE PROPERTY OF BALLY MFG. CORP., CHICAGO, ILL. THIS INFORMATION IS DISCLOSED IN CONFIDENCE AND IS NOT TO BE COPIED, REPRODUCED, REVEALED TO OR APPROPRIATED BY OTHERS, IN PART OR IN WHOLE, WITHOUT THE EXPRESS CONSENT OF THE OWNERS. THE PRINT IS LOANED AND MUST NOT BE USED IN ANY MANNER DETRIMENTAL TO THE INTEREST OF THE OWNERS, AND MUST BE RETURNED ON DEMAND.

REMOVE ALL BURRS		DATE 4-76		Bally MANUFACTURING CORP. #1094-E	
TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED		FEB 21 1977		2640 BELMONT AVENUE CHICAGO, ILLINOIS 1074-E	
FRACTIONS: 1/16, 1/8, 1/4, 1/2, 3/4, 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, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 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1676, 1677, 1678, 1679, 1680, 1681, 1682, 1683, 1684, 1685, 1686, 1687, 1688, 1689, 1690, 1691, 1692, 1693, 1694, 1695, 1696, 1697, 1698, 1699, 1700, 1701, 1702, 1703, 1704, 1705, 1706, 1707, 1708, 1709, 1710, 1711, 1712, 1713, 1714, 1715, 1716, 1717, 1718, 1719, 1720, 1721, 1722, 1723, 1724, 1725, 1726, 1727, 1728, 1729, 1730, 1731, 1732, 1733, 1734, 1735, 1736, 1737, 1738, 1739, 1740, 1741, 1742, 1743, 1744, 1745, 1746, 1747, 1748, 1749, 1750, 1751, 1752, 1753, 1754, 1755, 1756, 1757, 1758, 1759, 1760, 1761, 1762, 1763, 1764, 1765, 1766, 1767, 1768, 1769, 1770, 1771, 1772, 1773, 1774, 1775, 1776, 1777, 1778, 1779, 1780, 1781, 1782, 1783, 1784, 1785, 1786, 1787, 1788, 1789, 1790, 1791, 1792, 1793, 1794, 1795, 1796, 1797, 1798, 1799, 1800, 1801, 1802, 1803, 1804, 1805, 1806, 1807, 1808, 1809, 1810, 1811, 1812, 1813, 1814, 1815, 1816, 1817, 1818, 1819, 1820, 1821, 1822, 1823, 1824, 1825, 1826, 1827, 1828, 1829, 1830, 1831, 1832, 1833, 1834, 1835, 1836, 1837, 1838, 1839, 1840, 1841, 1842, 1843, 1844, 1845, 1846, 1847, 1848, 1849, 1850, 1851, 1852, 1853, 1854, 1855, 1856, 1857, 1858, 1859, 1860, 1861, 1862, 1863, 1864, 1865, 1866, 1867, 1868, 1869, 1870, 1871, 1872, 1873, 1874, 1875, 1876, 1877, 1878, 1879, 1880, 1881, 1882, 1883, 1884, 1885, 1886, 1887, 1888, 1889, 1890, 1891, 1892, 1893, 1894, 1895, 1896, 1897, 1898, 1899, 1900, 1901, 1902, 1903, 1904, 1905, 1906, 1907, 1908, 1909, 1910, 1911, 1912, 1913, 1914, 1915, 1916, 1917, 1918, 1919, 1920, 1921, 1922, 1923, 1924, 1925, 1926, 1927, 1928, 1929, 1930, 1931, 1932, 1933, 1934, 1935, 1936, 1937, 1938, 1939, 1940, 1941, 1942, 1943, 1944, 1945, 1946, 1947, 1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 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DOOR PLUG

A7 CABINET ASSY. WIRING

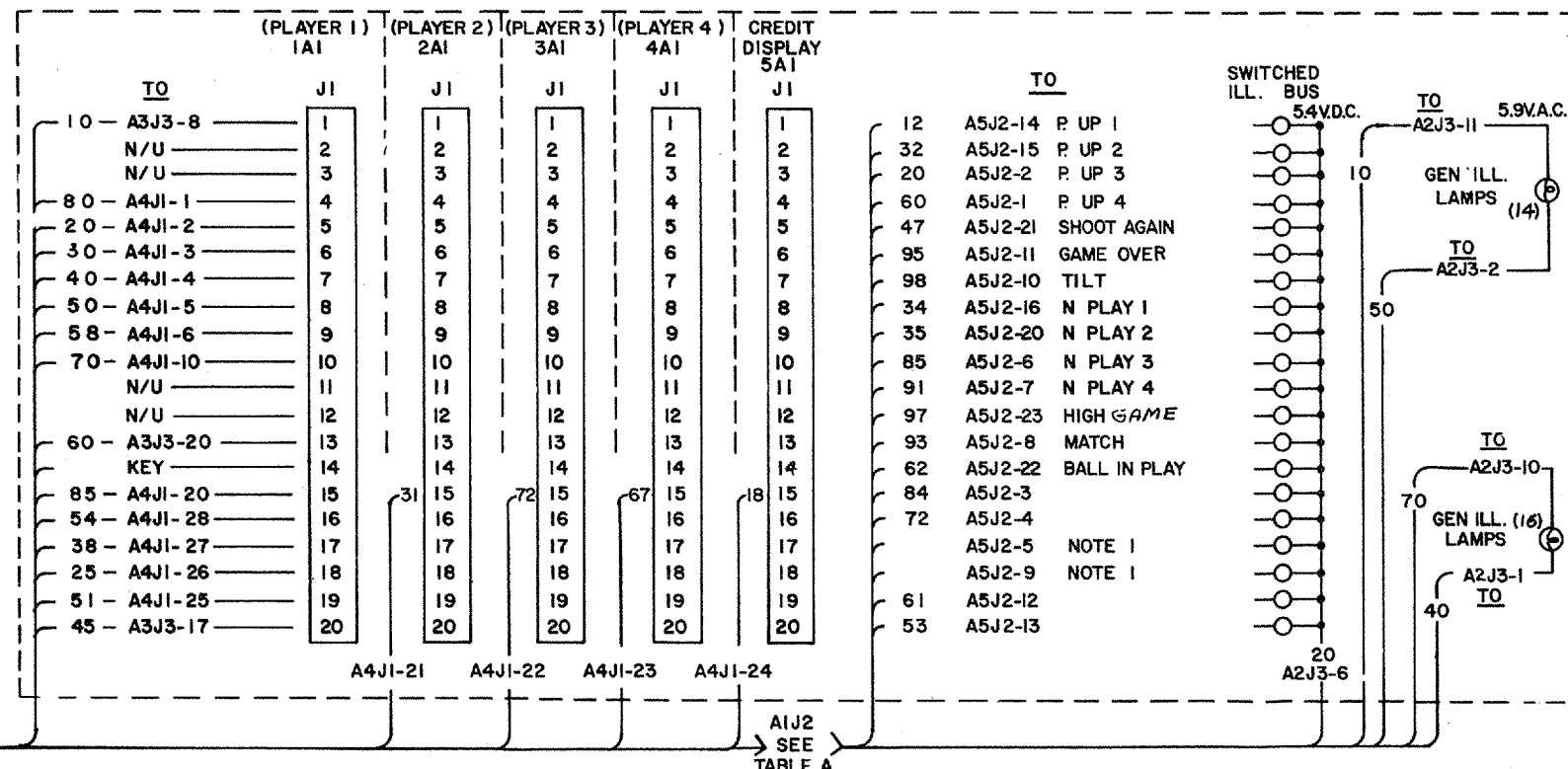
OPER.	DEPT.	DESCRIPTION	TOOL No.
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TABLE A AIJ2

FROM	PIN	WIRE
A2J3-6	1	20
A5J2-14	2	12
A2J3-2	3	50
A2J3-11	4	10
A5J2-23	5	97
A5J2-15	6	32
A5J2-22	7	62
A5J2-8	8	93
A5J2-1	9	60
A5J2-2	10	20
A5J2-11	11	95
A5J2-21	12	47
A5J2-10	13	98
A5J2-7	14	91
A5J2-6	15	85
A5J2-20	16	35
A5J2-16	17	34
A2J3-1	18	40
A2J3-10	19	70
A5J2-13	20	53
A5J2-12	21	61
A5J2-4	22	72
A5J2-3	23	84
	24	

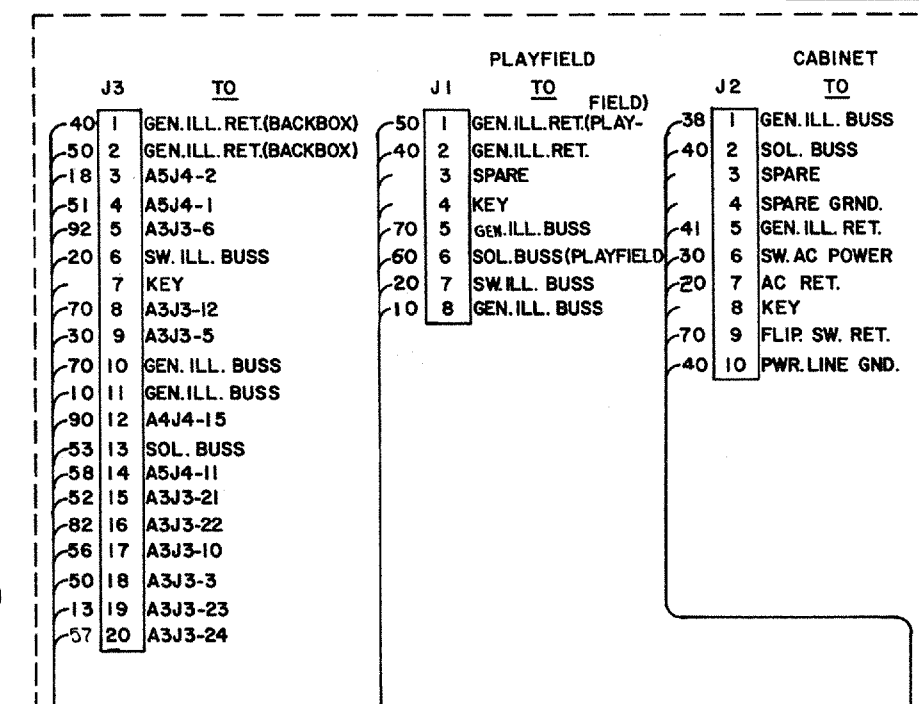
INSERT TO BACK
CABINET PLUG

A1 INSERT

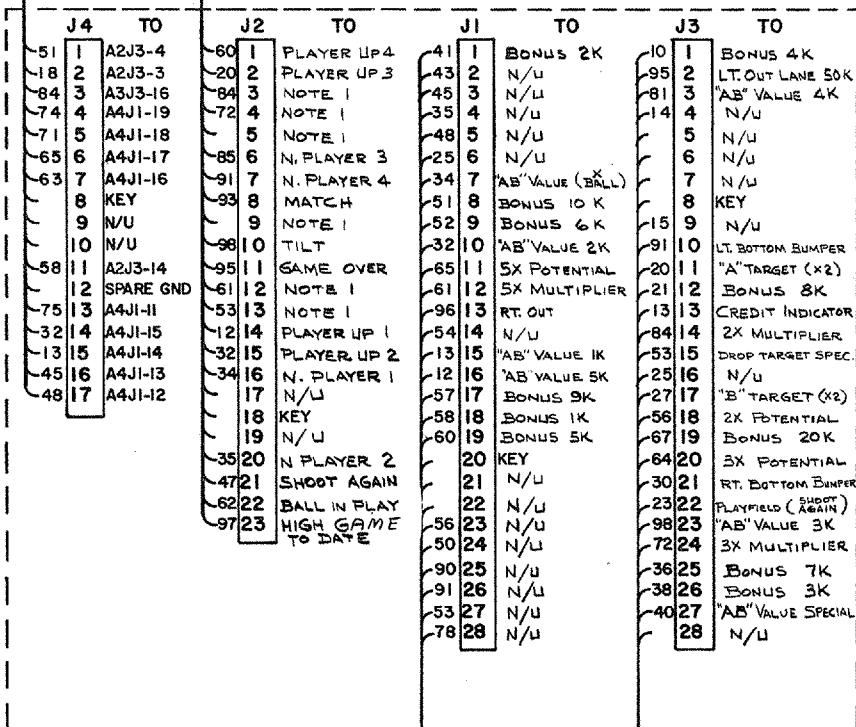


A2 TRANSFORMER

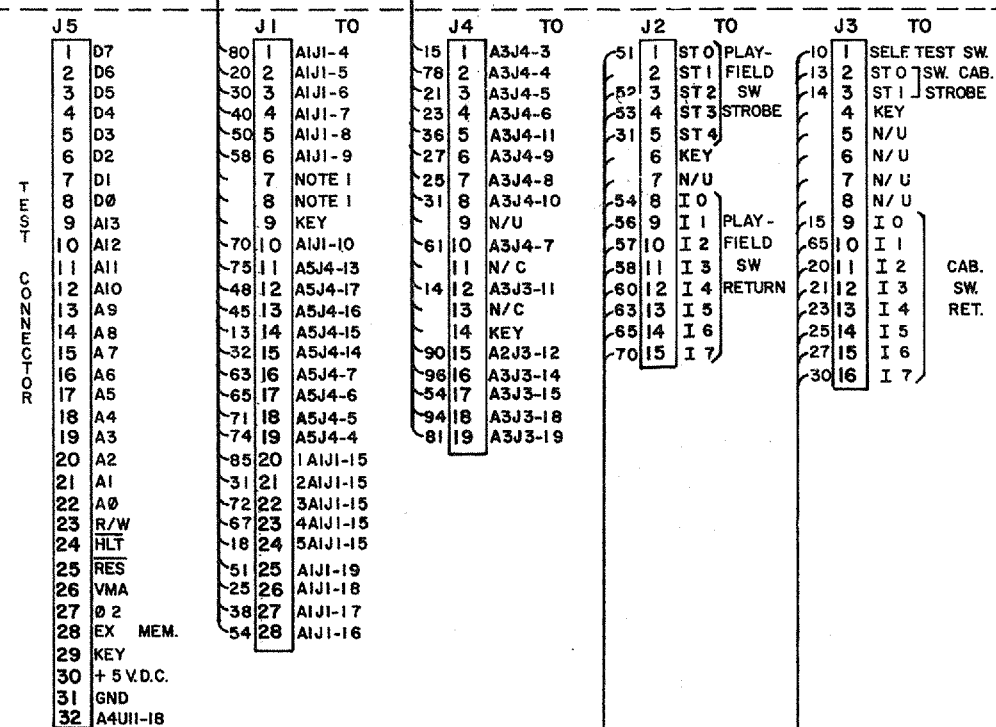
W-1187-1 c



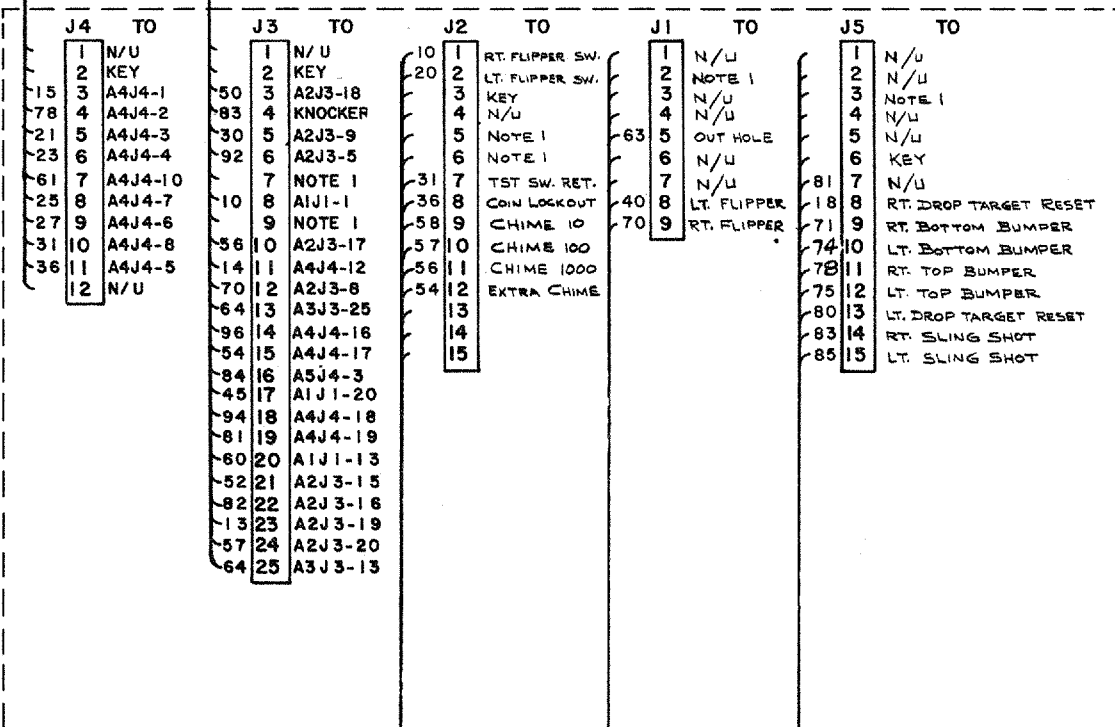
LAMP DRIVER A5



MPU A4



VOLTAGE REGULATOR / SOLENOID DRIVER A3



TO CABINET

TO PLAYFIELD

NOTES

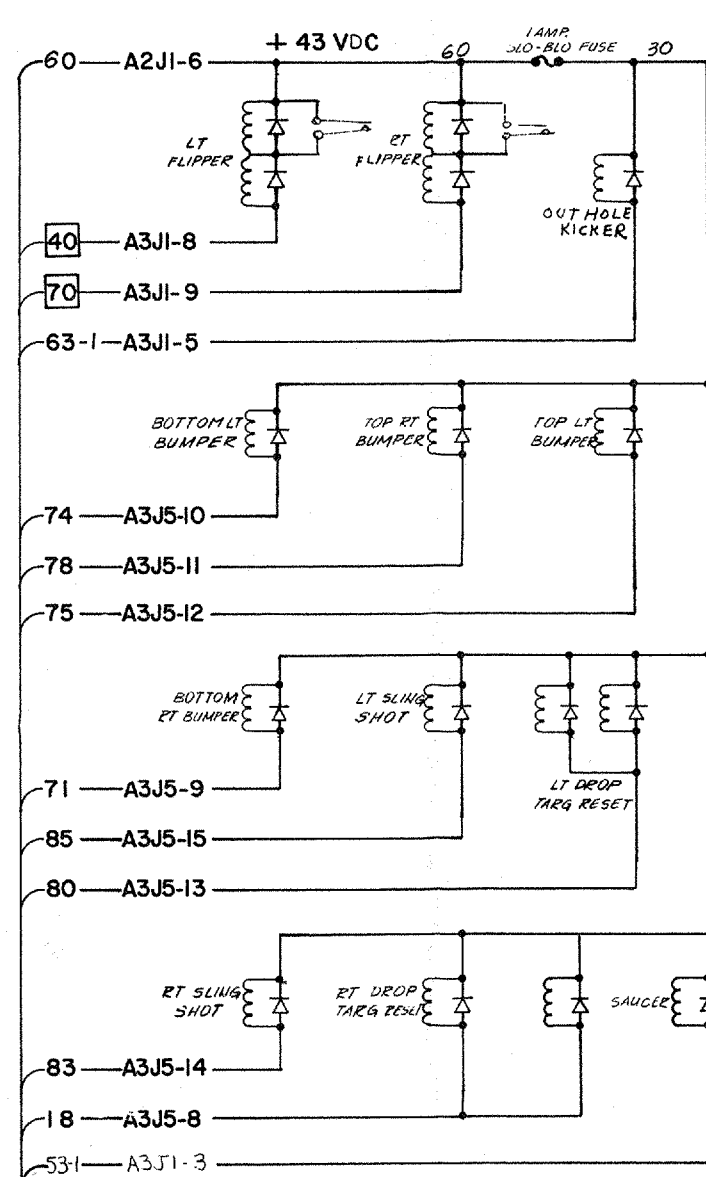
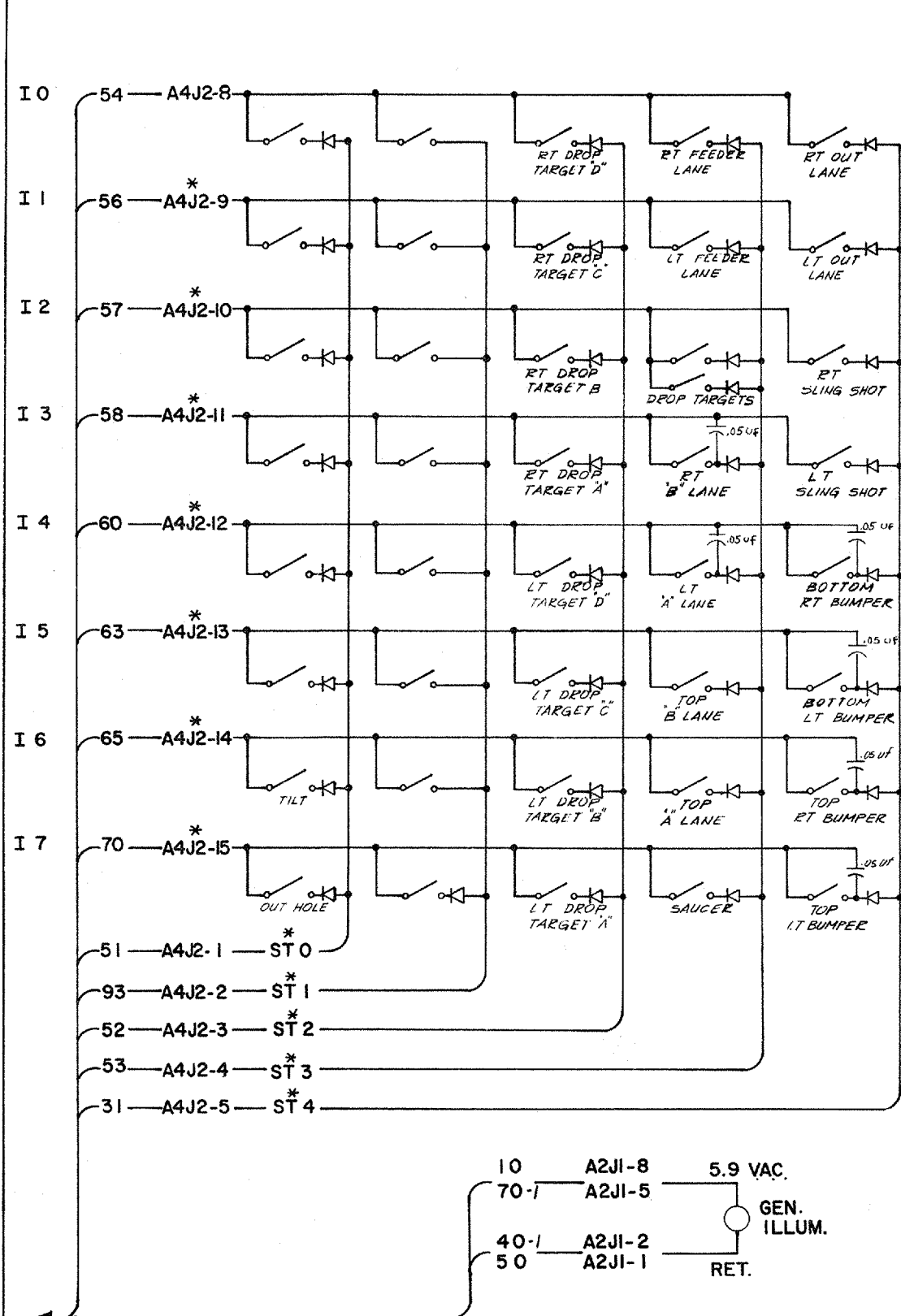
1. THESE PINS ARE RESERVED FOR FUTURE USE.
2. WIRE COLORS ARE SHOWN FOR ALL CONNECTOR PINS, SOME WIRES MAY NOT BE USED IN ALL GAMES.
3. * INDICATES AID TEST POINT.

WIRE COLOR CODE

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

ALL DESIGN, OPERATIVE AND PROCESS DATA PERTAINING TO THE ARTICLE SHOWN ON THIS SHEET IS THE PROPERTY OF BALLY MFG. CORP., CHICAGO, ILL. THIS INFORMATION IS DISCLOSED IN CONFIDENCE AND IS NOT TO BE COPIED, REPRODUCED, REVEALED TO OR APPROPRIATED BY OTHERS, IN PART OR IN WHOLE, WITHOUT THE EXPRESS CONSENT OF THE OWNERS. THE PRINT IS LOANED AND MUST NOT BE USED IN ANY MANNER DETRIMENTAL TO THE INTEREST OF THE OWNERS, AND MUST BE RETURNED ON DEMAND.

REMOVE ALL BURRS		DR. BY DATE		REV 1.0 1571		Bally MANUFACTURING CORP.		2640 BELMONT AVENUE		#1104-E	
TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED		CR. BY DATE		AP'D BY DATE		PENT. CONTROL		2000		TOTAL SCALE	
FRACTIONS: 1/64		AP'D BY DATE		PENT. CONTROL		2000		2000		TOTAL SCALE	
DECIMALS: .005		FINISH:		NAME		WIRING DIAGRAM		ASSEM. NO. USED ON/W		PART NO.	
ANGLES: 2°		HARDENING:		MATERIAL		MATA HARI		W-1187-1 c		PART NO.	
DO NOT SCALE DRAWING		LET.		CHANGE		DATE		BY		CK.	



- 58-1 A5J1-18 BONUS 1K
- 60-1 A5J1-19 BONUS 5K
- 57-1 A5J1-17 BONUS 9K
- 56 A5J1-23 N/U
- 54 A5J1-14 N/U
- 13 A5J1-15 AB VALUE 1K
- 12 A5J1-16 AB VALUE 5K
- 78 A5J1-28 N/U
- 50 A5J1-24 N/U
- 90 A5J1-25 N/U
- 91 A5J1-26 N/U
- 53 A5J1-27 N/U
- 41 A5J1-1 BONUS 2K
- 52 A5J1-9 BONUS 6K
- 51-1 A5J1-8 BONUS 10K
- 45 A5J1-3 N/U
- 43 A5J1-2 N/U
- 32 A5J1-10 AB VALUE 2K
- 34 A5J1-7 AB VALUE X BALL
- 25 A5J1-6 N/U
- 48 A5J1-5 N/U
- 65-1 A5J1-11 5X POTENTIAL
- 35 A5J1-4 N/U
- 61 A5J1-12 5X MULTIPLIER
- 96 A5J1-13 RT OUT LANE 50K

- 38 A5J3-26 BONUS 3K
- 36 A5J3-25 BONUS 7K
- 67 A5J3-19 BONUS 20K
- 27 A5J3-17 B TARGET (X2)
- 25 A5J3-16 N/U
- 98 A5J3-23 AB VALUE 3K
- 40 A5J3-27 AB VALUE SPEC.
- 30 A5J3-21 RT BOTTOM BUMPER
- 64 A5J3-20 3X POTENTIAL
- 23 A5J3-22 PLAY FIELD SHOOT AGAIN
- 72 A5J3-24 3X MULTIPLIER
- 10 A5J3-1 BONUS 4K
- 21 A5J3-12 BONUS 8K
- 53-2 A5J3-15 DROP TARGET SPEC.
- 20 A5J3-11 A TARGET (X2)
- 15 A5J3-9 N/U
- 13-1 A5J3-13 CREDIT INDICATOR
- 14 A5J3-4 N/U
- 95 A5J3-2 LT OUT LANE SPEC
- 91 A5J3-10 LT BOTTOM BUMPER
- 56-1 A5J3-18 2X POTENTIAL
- 81 A5J3-3 AB VALUE 4K
- 84 A5J3-14 2X MULTIPLIER
- 20 A2J1-7 FEATURE LAMP BUS

5.4 VDC

PLAYFIELD A6

NOTES

1. INDICATES NOT USED
2. N/U = NOT USED ON PLAYFIELD
3. * INDICATES AID TEST POINT
4. ALL DIODES ARE IN 4004-E 587-6
ALL CAP ARE .05 =E 586-80

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REMOVE ALL BURRS		DR. BY DATE		Bally MANUFACTURING CORP.	
TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED		CK. BY DATE		2640 BELMONT AVENUE CHICAGO, ILLINOIS	
FRACTIONS - 1/64		APD BY DATE		CHICAGO, ILLINOIS	
DECIMALS - .005		APD BY DATE		CHICAGO, ILLINOIS	
ANGLES - 2		FINISH		CHICAGO, ILLINOIS	
DO NOT SCALE DRAWING		HARDENING		CHICAGO, ILLINOIS	
LET. CHANGE DATE BY CK.		NAME		CHICAGO, ILLINOIS	
		MATERIAL		CHICAGO, ILLINOIS	
		WIRING DIAGRAM		CHICAGO, ILLINOIS	
		MATA HAKI		CHICAGO, ILLINOIS	
		PART NO.		CHICAGO, ILLINOIS	
		W-1192-1c		CHICAGO, ILLINOIS	