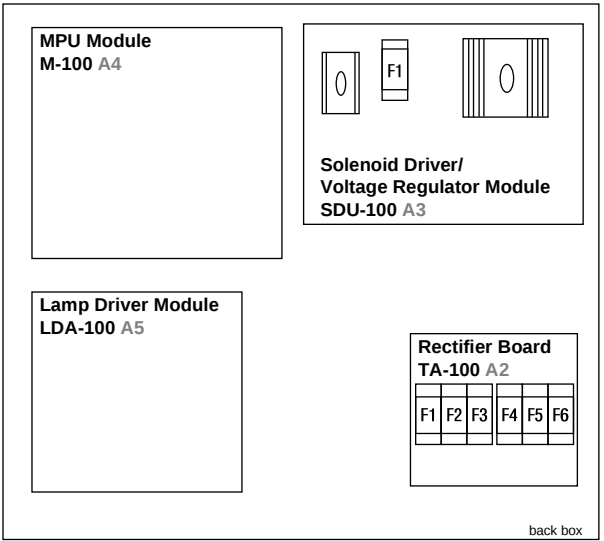


Fuse List

Rectifier Board TA-100		
F1	6.5V Switched illumination	10A, 250V
F2	230V Display power input	0.75A, 250V
F3	5V Unregulated input	4A, 250V
F4	43V Solenoids (2 flippers)	5A, 250V
F5	6.5V General illumination	20A, 250V
F6	Main fuse	3A, 250V, SB
Sol. Dr./Volt. Reg. SDU-100		
F1	190V Display power output (if present)	0.25A, 250V
Under the Playfield fuses		
F1	Playfield Solenoids	1A, 250V, SB



Lectronama



Controlled Lamps Chart

SCR	connector	lamp description	wire color	tr type	SCR	connector	lamp description	wire color	tr type
Q06	A5J2-14	1st Player Up	Wht-Yel	2N5060	Q42	A5J3-21	Left Return	Blk-Grn	MCR-106
Q19	A5J2-15	2nd Player Up	Yel-Blu	2N5060	Q23	A5J2-8	Match	Gry-Yel	MCR-106
Q31	A5J2-2	3rd Player Up	Blu	2N5060	Q05	A5J2-16	Player #1	Yel-Grn	2N5060
Q45	A5J2-1	4th Player Up	Brn	2N5060	Q18	A5J2-20	Player #2	Yel-Wht	2N5060
Q01	A5J1-24	5-Bank Target Special	Brn-Blu	MCR-106	Q30	A5J2-6	Player #3	Blk-Wht	2N5060
Q08	A5J1-23	Advance Bonus #1	Blu-Wht	MCR-106	Q43	A5J2-7	Player #4	Gry-Red	2N5060
Q35	A5J1-3	Advance Bonus #2	Red-Grn	MCR-106	Q24	A5J1-5	Rollover Button	Blu-Yel	MCR-106
Q49	A5J3-17	Advance Bonus #3	Yel-Wht	MCR-106	Q03	A5J1-26	Shoot Again	Grn-Wht	MCR-106
Q54	A5J3-11	Advance Bonus #4	Wht-Gry	MCR-106	Q25	A5J1-6	Saucer	Blk-Yel	2N5060
Q16	A5J2-22	Ball-in-Play	Brn-Blu	MCR-106	Q04	A5J1-28	Spinner	Blu-Yel	2N5060
Q14	A5J1-18	Bonus 1K	Brn-Blk	2N5060	Q47	A5J2-10	Tilt	Gry-Blk	MCR-106
Q29	A5J1-1	Bonus 2K	Blu-Red	2N5060	Q07	A5J1-27			2N5060
Q36	A5J3-26	Bonus 3K	Blk	2N5060	Q09	A5J1-14			MCR-106
Q57	A5J3-1	Bonus 4K	Grn-Red	2N5060	Q10	A5J1-15			MCR-106
Q12	A5J1-19	Bonus 5K	Gry-Grn	2N5060	Q20	A5J1-13			2N5060
Q27	A5J1-9	Bonus 6K	Orn-Grn	2N5060	Q21	A5J1-12			2N5060
Q38	A5J3-25	Bonus 7K	Red-Yel	2N5060	Q22	A5J1-10			MCR-106
Q50	A5J3-12	Bonus 8K	Orn-Red	2N5060	Q26	A5J1-7			2N5060
Q13	A5J1-17	Bonus 9K	Pur	2N5060	Q32	A5J3-27			2N5060
Q28	A5J1-8	Bonus 10K	Grn-Blk	2N5060	Q34	A5J1-2			MCR-106
Q02	A5J1-25	Bonus Multiplier 2X	Brn-Orn	MCR-106	Q37	A5J3-23			2N5060
Q17	A5J1-11	Bonus Multiplier 3X	Brn-Wht	MCR-106	Q39	A5J3-24			2N5060
Q41	A5J3-20	Bonus Multiplier 5X	Pur-Yel	MCR-106	Q44	A5J3-19			2N5060
Q40	A5J3-22	Drop Target 2X	Pur-Yel	MCR-106	Q48	A5J3-16			MCR-106
Q52	A5J3-13	Drop Target 3X	Yel-Blk	2N5060	Q51	A5J3-15			2N5060
Q56	A5J3-10	Drop Target 5X	Gry-Blk	MCR-106	Q53	A5J3-14			2N5060
Q11	A5J1-16	Extra Ball	Brn-Red	2N5060	Q55	A5J3-9			MCR-106
Q46	A5J3-18	Extra Ball Lane	Red-Blu	2N5060	Q58	A5J3-2			2N5060
Q33	A5J2-11	Game Over	Gry-Wht	MCR-106	Q59	A5J3-4			2N5060
Q15	A5J2-23	Highest Score	Gry-Orn	MCR-106	Q60	A5J3-3			2N5060

Coil Table

Sol. No	Solenoid description	Solenoid Type	Wire Color	Connector	Driver Transistor	Solenoid Coil Type
1	Sound 10	Momentary		A3J2-9, J1-2	Q1	
2	Sound 100	Momentary		A3J2-4, J1-3	Q2	
3	Sound 1.000	Momentary		A3J2-10	Q5	
4	Sound 10.000	Momentary		A3J2-11	Q6	
5		Continuous		A3J5-7	Q17	
6		Continuous		A3J5-3, J2-15, J3-9	Q18	
7	Left Thumper	Momentary	Orn-Red	A3J5-9	Q9	J-26-1200
8	Right Slingshot	Momentary	Blk-Yel	A3J5-15	Q10	J-26-1200
9	Center Thumper	Momentary	Blk	A3J5-13	Q12	J-26-1200
10	Outhole	Momentary	Brn-Yel	A3J1-5	Q4	J-26-1100
11	Right Thumper	Momentary	Blk-Blu	A3J5-14	Q11	J-26-1200
12	Lane Kicker	Momentary	Orn-Blu	A3J5-12	Q13	J-26-1200
13	3-Bank Drop Target Reset	Momentary	Red-Wht	A3J2-12	Q7	B-27-2300
14	Center Saucer	Momentary	Orn-Grn	A3J5-10	Q8	J-28-2300
15	5-Bank Drop Target Reset	Momentary	Orn-Wht	A3J5-11	Q14	B-27-2300
16	Left Slingshot	Momentary	Red-Blk	A3J5-8, J2-6, J3-7	Q16	J-26-1200
17	Knocker	Momentary	Blu-Yel	A3J3-4, J2-5	Q3	N-26-1200
18	Flipper enabling relay	Continuous	--	--	Q15	48V Relay
19	Coin Lockout	Continuous	Yel-Wht	A3J2-8	Q19	C-36-5500
	Flipper Circuits	Power Wire	Flipper Coil Wire	Flipper Button Wire		Coil
	Left Flipper	Yel	Grn A3J1-8	Blu A3J2-2		J-25-500/34-5050
	Right Flipper	Yel	Orn A3J1-9	Red A3J2-1		J-25-500/34-5050

Switch Matrix

		strobe (ST)  return (I)				
Row	Column	STROBE 0 A4J2-1 Wht-Red A4J3-2 Red-Yel	STROBE 1 A4J2-2 Brn-Wht A4J3-3 Red-Grn	STROBE 2 A4J2-3 Wht-Blu	STROBE 3 A4J2-4 Wht-Yel	STROBE 4 A4J2-5 Yel-Red
RETURN I 0 A4J2-8 Brn A4J3-9 Red-Wht		Right Outlane 1	Coin Chute III (Right) 9	Rollover Button 17	1000 Advance Bonus 25	Center Thumper 33
RETURN I 1 A4J2-9 Gry A4J3-10 Brn-Wht		Right Return Lane 2	Coin Chute I (Center) 10	300 Advance Bonus (3) 18	Not Used 26	Right Thumper 34
RETURN I 2 A4J2-10 Wht-Orn A4J3-11 Blu		Left Outlane 3	Coin Chute II (Left) 11	10 Points (3) 19	Not Used 27	Left Thumper 35
RETURN I 3 A4J2-11 Wht-Blk A4J3-12 not used		Left Return Lane 4	Target (Stand-Up) 12	Not Used 20	Not Used 28	Not Used 36
RETURN I 4 A4J2-12 Wht-Grn A4J3-13 not used		#1 Drop Target (5-Bank) 5	#2 Drop Target (5-Bank) 13	#3 Drop Target (5-Bank) 21	#4 Drop Target (5-Bank) 29	#5 Drop Target (5-Bank) 37
RETURN I 5 A4J2-13 Wht-Brn A4J3-14 Blu-Wht		Credit Button 6	#1 Drop Target (3-Bank) 14	#2 Drop Target (3-Bank) 22	#3 Drop Target (3-Bank) 30	Right Slingshot 38
RETURN I 6 A4J2-14 Brn-Yel A4J3-15 Blu-Orn		Tilt 7	Spin-Target 15	Not Used 23	Not Used 31	Left Slingshot 39
RETURN I 7 A4J2-15 Orn A4J3-16 Yel		Outhole 8	Slam (3) 16	Kicker 24	Not Used 32	Center Saucer 40