

Fuse List:

Wire in	Value	Wire out	description	location
Blk-Red-Red (022)	5 Amp Slo-Blo	Blk-Brn-Brn (011)	115V Primary Fuse	Bottom Board
	2 1/2 Amp Slo-Blo		230V Primary Fuse	Bottom Board
Blk-Orn-Orn (033)	1 Amp Slo-Blo	Brn	Small transformer primary fuse	Bottom Board
Yel-Blk-Blk (400)	1 Amp Slo-Blo	Yel-Yel-Yel (444)	Sound Board Fuse	Bottom Board
Yel-Blu-Blu (466)	1/4 Amp Slo-Blo	Grn-Blk-Blk (500)	Displays 69VAC	Bottom Board
Blk-Blu-Blu (066)	5 Amp Slo-Blo	Red-Slt-Slt (288)	Coils 25VAC	Bottom Board
Orn-Blk-Blk (300)	5 Amp Slo-Blo	Orn-Brn-Brn (311)	Controlled lamps 8VAC	Bottom Board
Red-Blu-Blu (266)	10 Amp	Red-Orn-Orn (233)	G.I. Playfield (via Tilt Relay) & Coin Chute 6VAC	Bottom Board
Red-Blu-Blu (266)	12 Amp	Red-Red-Red (222)	G.I. Name & Scene Lights 6VAC	Bottom Board
Red-Pur-Pur (277)	2 Amp Slo-Blo	Red-Red-Red (222)	Target Bank Reset	Playfield

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TOTEM

Switch Matrix

	RETURN 0 A1J7-12 & A1J6-3 Blk-Blu-Blu (066)	RETURN 1 A1J7-13 Brn-Blk-Blk (100)	RETURN 2 A1J7-14 Brn-Red-Red (122)	RETURN 3 A1J7-17 Brn-Orn-Orn (133)	RETURN 4 A1J7-16 Brn-Yel-Yel (144)	RETURN 5 A1J7-15 Brn-Grn-Grn (155)	RETURN 6 A1J7-11 Brn-Blu-Blu (166)	RETURN 7 A1J7-10 Orn-Blu-Blu (366)
STROBE 0 A1J7-2 A1J6-8 Blk-Brn-Brn (011)	Test Button SW.00	Left Return Rollover SW.10	#2 Drop Target SW.20	#4 Drop Target SW.30	#1 & #3 Rollover Button Red-Yel-Yel (244) SW.40	#2 Rollover Button Brn-Red-Red (122) SW.50	10 Point Contacts (5) Blk-Pur-Pur (077) SW.60	Rollover "B" Yel-Blk-Blk (400) SW.70
STROBE 1 A1J7-3 A1J6-4 Blk-Red-Red (022)	#1 Coin Chute Brn-Red-Red (122) SW.01	Right Return Rollover Brn-Pur-Pur (177) SW.11	#3 Drop Target Pur-Red-Red (722) SW.21	#5 Drop Target Pur-Yel-Yel (744) SW.31	Hole Brn-Orn-Orn SW.41	Left & Right Rollover, Vari-Target Rivets 5 & 6 Yel-Pur-Pur SW.51	Rollunder Blu-Red-Red (622) SW.61	Rollover "C" Yel-Brn-Brn (411) SW.71
STROBE 2 A1J7-4 A1J6-5 Blk-Orn-Orn (033)	#2 Coin Chute Brn-Orn-Orn (133) SW.02	Not Used SW.12	Not Used SW.22	Not Used SW.32	Vari-Target Rivets 1 & 2 Blk-Blu-Blu (066) SW.42	Vari-Target Rivets 3 & 4 Blk-Yel-Yel (044) SW.52	Target (3) Blk-Yel-Yel (044) SW.62	Rollover "D" Yel-Red-Red (422) SW.72
STROBE 3 A1J7-7 A1J6-6 Blk-Yel-Yel (044)	Replay Button Brn-Yel-Yel (144) SW.03	Not Used SW.13	Not Used SW.23	Not Used SW.33	Not Used SW.43	Not Used SW.53	Not Used SW.63	Not Used SW.73
STROBE 4 A1J7-6 Blk-Grn-Grn (055)	Tilt Blu-Blu-Blu (666) SW.04	Pop Bumper (2) Red-Brn-Brn (211) SW.14	#1 Drop Target Pur-Blk-Blk (700) SW.24	#6 Drop Target Pur-Grn-Grn (755) SW.34	Not Used SW.44	Not Used SW.54	Bulls Eye Target Orn-Pur-Pur (377) SW.64	Rollover "A" Yel-Blu-Blu (466) SW.74



Solenoids

	Solenoid description	Solenoid Type	Power Wire	Fuse	Transfer Wire	Coil Wire Color	Connector	Driver Transistor	Transistor Type	Coil Type
L01	Game Over Relay	Controlled	Red-Pur-Pur (277)			Yel-Blk-Blk (400)	A3J5-18	Q01	MPS-U45	A-16890
L02	Tilt Relay	Controlled	Red-Pur-Pur (277)			Yel-Brn-Brn (411)	A3J5-19	Q02	MPS-U45	A-16890
Sol. 1	Outhole	Controlled	Red-Pur-Pur (277)			Red-Blk-Blk (200)	A3J4-6	Q32	2N6043	A-16570
Sol. 2	Knocker	Controlled	Red-Pur-Pur (277)			Red-Brn-Brn (211)	A3J2-1	Q25	2N6043	A-5195
Sol. 3	10's chime	Controlled				Orn-Brn-Brn (311)	A3J2-2	Q26	2N6043	Sound Board
Sol. 4	100's chime	Controlled				Red-Yel-Yel (244)	A3J2-3	Q27	2N6043	Sound Board
Sol. 5	1000's chime	Controlled				Red-Grn-Grn (255)	A3J2-4	Q28	2N6043	Sound Board
Sol. 6	Right Hole Kicker	Controlled	Red-Pur-Pur (277)			Red-Blu-Blu (266)	A3J4-5	Q31	2N6043	A-16570
Sol. 7	Vari-Target Reset	Controlled	Red-Pur-Pur (277)			Orn-Blk-Blk (300)	A3J4-4	Q30	2N6043	A-17564
Sol. 8	Drop Target Bank Reset	Controlled	Red-Pur-Pur (277)	2 AMP S.B.	Red-Red-Red (222)	Orn-Brn-Brn (311)	A3J4-2	Q29 - Q45	MPS-U45 - 2N3055	A-18102 (2)
	Left Pop Bumper	Directly	Orn-Red-Red (322)					Switch		A-5194
	Right Pop Bumper	Directly	Orn-Red-Red (322)					Switch		A-5194
	Kicking Rubber	Directly	Orn-Red-Red (322)					Switch		A-5194
	Coin Lockout	Directly	Red-Pur-Pur (277)				A6J1-11			A-16890
	Left Flipper	Directly	Orn-Yel-Yel (344)				A6J5-4	Button		A-17875
	Right Flipper	Directly	Orn-Grn-Grn (355)				A6J5-5	Button		A-17875

2N6043 can be replaced with a TIP 102

Lamps and solenoids

transistor	connector	code	description	wire code	wire color
Q01	J5-18	L01	Game Over Relay (Q)	400	Yel-Blk-Blk
Q Relay			Match / Game Over Light	366	Orn-Blu-Blu
Q Relay			Ball in Play	255	Red-Grn-Grn
Q02	J5-19	L02	Tilt Relay (T)	411	Yel-Brn-Brn
T Relay			Tilt Light	822	Slt-Red-Red
Q03	J5-17	L03	High Game to Date	422	Yel-Red-Red
Q04	J5-15	L04	Same Player Shoot Again	433	Yel-Orn-Orn
Q05	J5-13	L05	Collect Bonus When Lit	455	Yel-Grn-Grn
Q06	J5-14	L06	2X Bonus	466	Yel-Blu-Blu
Q07	J5-12	L07	Special	500	Grn-Blk-Blk
Q08	J5-11	L08	Drop Target "D"	511	Grn-Brn-Brn
Q09	J5-9	L09	Drop Target "C1"	522	Grn-Red-Red
Q10	J5-10	L10	Drop Target "C2"	533	Grn-Orn-Orn
Q11	J5-8	L11	Drop Target "B2"	544	Grn-Yel-Yel
Q12	J5-7	L12	Drop Target "B1"	566	Grn-Blu-Blu
Q13	J5-5	L13	Extra Ball	600	Blu-Blk-Blk
Q14	J5-6	L14	Drop Target "A"	611	Blu-Brn-Brn
Q15	J5-4	L15	Rollover "D"	622	Blu-Red-Red
Q16	J5-3	L16	Rollover "C"	633	Blu-Orn-Orn
Q17	J5-1	L17	Rollover "A"	644	Blu-Yel-Yel
Q18	J5-2	L18	Rollover "B"	655	Blu-Grn-Grn
Q19	J3-20	L19	Not Used	700	Pur-Blk-Blk
Q20	J3-18	L20	Not Used	711	Pur-Brn-Brn
Q21	J3-16	L21	Left Return Rollover	722	Pur-Red-Red
Q22	J3-17	L22	Right Return Rollover	733	Pur-Orn-Orn
Q23	J3-15	L23	1000 Bonus	744	Pur-Yel-Yel
Q24	J3-14	L24	2000 Bonus	755	Pur-Grn-Grn
Q33	J3-12	L25	3000 Bonus	800	Slt-Blk-Blk
Q34	J3-13	L26	4000 Bonus	811	Slt-Brn-Brn
Q35	J3-11	L27	5000 Bonus	822	Slt-Red-Red
Q36	J3-9	L28	6000 Bonus	833	Slt-Orn-Orn
Q37	J3-7	L29	7000 Bonus	844	Slt-Yel-Yel
Q38	J3-8	L30	8000 Bonus	855	Slt-Grn-Grn
Q39	J3-6	L31	9000 Bonus	111	Brn-Brn-Brn
Q40	J3-5	L32	10,000 Bonus	333	Orn-Orn-Orn
Q41	J3-4	L33	20,000 Bonus	444	Yel-Yel-Yel
Q42	J3-3	L34	5X Bonus	555	Grn-Grn-Grn
Q43	J3-2	L35	4X Bonus	666	Blu-Blu-Blu
Q44	J3-1	L36	3X Bonus	777	Pur-Pur-Pur
Q32	J4-6	Solenoid 1	Outhole Kicker	200	Red-Blk-Blk
Q25	J2-1	Solenoid 2	Knocker	211	Red-Brn-Brn
Q26	J2-2	Solenoid 3	10's chime	311	Orn-Brn-Brn
Q27	J2-3	Solenoid 4	100's chime	244	Red-Yel-Yel
Q28	J2-4	Solenoid 5	1000's chime	255	Red-Grn-Grn
Q31	J4-5	Solenoid 6	Right Hole	266	Red-Blu-Blu
Q30	J4-4	Solenoid 7	Vari-Target Reset	300	Orn-Blk-Blk
Q29 - Q45	J4-2	Solenoid 8	Drop Target Bank Reset	311	Orn-Brn-Brn