

Fuse List:

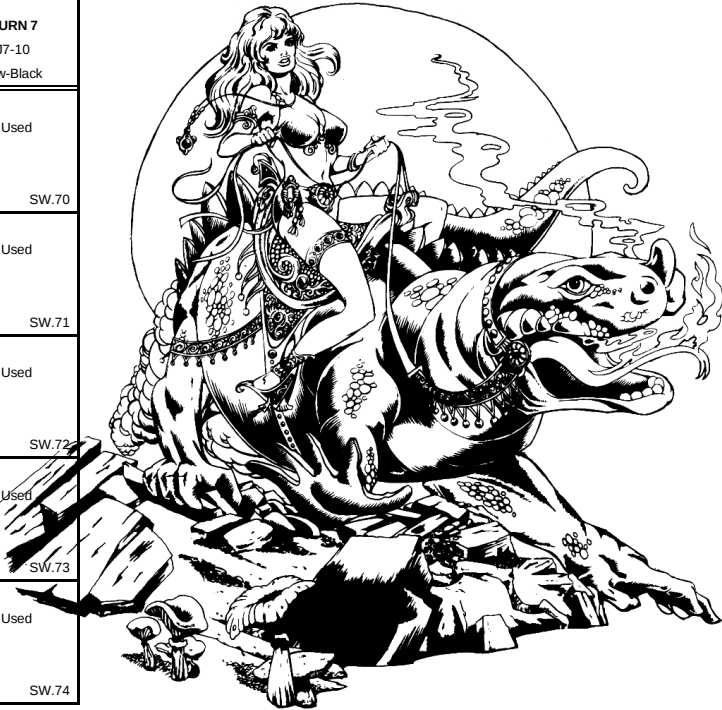
Wire in	Value	Wire out	description	location
Orn	5 Amp Slo-Blo	Blu	115V Primary Fuse	Bottom Board
	2½ Amp Slo-Blo		230V Primary Fuse	Bottom Board
Wht-Yel	¼ Amp Slo-Blo	Blu-Wht-Red	Displays 69VAC	Bottom Board
Yel	5 Amp Slo-Blo	Red-Wht	Coils 25VAC	Bottom Board
Blu-Blk	5 Amp Slo-Blo	Orn-Blk	Controlled lamps 8VAC	Bottom Board
Yel-Red	7½ Amp	Bm-Red	G.I. Playfield (via Tilt Relay) & Coin Chute 6VAC	Bottom Board
Yel-Red	7½ Amp	Wht-Red	G.I. Name & Scene Lights 6VAC	Bottom Board
Red	½ Amp Slo-Blo	Blu-Orn	Out Hole	Playfield

D. Gottlieb & Co.

DRAGON

Switch Matrix

	RETURN 0 A1J7-12 & A1J6-3 Yellow	RETURN 1 A1J7-13 Blue-White	RETURN 2 A1J7-14 Orange-White	RETURN 3 A1J7-17 Brown-White	RETURN 4 A1J7-16 Green-White	RETURN 5 A1J7-15 Purple-White	RETURN 6 A1J7-11 Yellow-White	RETURN 7 A1J7-10 Yellow-Black
STROBE 0 A1J7-2 A1J6-8 Blue	Test Button Blue-White SW.00	Spinning Target Red-Green SW.10	"A" Rollover (2) Orange-Black SW.20	#1 Rollover Button Yellow-Green SW.30	Right Extra Ball Target Maroon-Yellow SW.40	Pop Bumpers (2) Red-White SW.50	Not Used SW.60	Not Used SW.70
STROBE 1 A1J7-3 A1J6-4 Orange	#1 Coin Chute Orange-White SW.01	Not Used SW.11	"B" Rollover (2) Brown-Black SW.21	#2 Rollover Button Orange-Green SW.31	#1 Left Vari-Target Maroon-Green SW.41	#1 Right Vari-Target Slate-Red SW.51	Not Used SW.61	Not Used SW.71
STROBE 2 A1J7-4 A1J6-5 Brown	#2 Coin Chute Brown-White SW.02	Left Extra Ball Red-Yellow SW.12	"C" Rollover (2) Slate-Black SW.22	#3 Rollover Button Slate-Green SW.32	#2 Left Vari-Target Maroon-Orange SW.42	#2 Right Vari-Target Blue-White-Red SW.52	Not Used SW.62	Not Used SW.72
STROBE 3 A1J7-7 A1J6-6 Green	Replay Button Green-White SW.03	Not Used SW.13	Not Used SW.23	Not Used SW.33	#3 Left Vari-Target Blue-Black SW.43	#3 Right Vari-Target Maroon-White SW.53	Not Used SW.63	Not Used SW.73
STROBE 4 A1J7-6 Purple	Tilt Purple-White SW.04	Special Rollover White SW.14	"D" Rollover (2) Yellow-Black SW.24	#4 Rollover Button Slate-Green SW.34	10 Point Switches (5) Maroon SW.44	Not Used SW.54	Not Used SW.64	Not Used SW.74



Lamps and solenoids

transistor	connector	code	description	wire color	transistor type
Q01	J5-18	L01	Game Over Relay (Q)	Wht-Blu	MPS-U45
Q Relay			Match / Game Over Light	Yel-Blk	
Q Relay			Ball in Play	Pur-Red	
Q02	J5-19	L02	Tilt Relay (T)	Wht-Orn	MPS-U45
T Relay			Tilt Light	Wht-Bm-Blk	
Q03	J5-17	L03	High Game to Date	Wht-Bm	MPS-U45
Q04	J5-15	L04	Same Player Shoot Again	Wht-Grn	MPS-U45
Q05	J5-13	L05	5X Bonus	Wht-Pur	MPS-A13
Q06	J5-14	L06	1000 Points When Lit	Wht-Yel	MPS-A13
Q07	J5-12	L07	4X Bonus	Blu-Wht-Red	MPS-A13
Q08	J5-11	L08	3X Bonus	Orn-Wht-Red	MPS-A13
Q09	J5-9	L09	Rollover Button	Bm-Wht-Red	MPS-A13
Q10	J5-10	L10	2X Bonus	Grn-Wht-Red	MPS-A13
Q11	J5-8	L11	Rollover Button	Pur-Wht-Red	MPS-A13
Q12	J5-7	L12	Rollover Button	Yel-Wht-Red	MPS-A13
Q13	J5-5	L13	Top "D" Rollover	Blu-Wht-Blk	MPS-A13
Q14	J5-6	L14	Rollover Button	Orn-Wht-Blk	MPS-A13
Q15	J5-4	L15	Top "C" Rollover	Bm-Wht-Blk	MPS-A13
Q16	J5-3	L16	Top "B" Rollover	Grn-Wht-Blk	MPS-A13
Q17	J5-1	L17	Special	Pur-Wht-Blk	MPS-A13
Q18	J5-2	L18	Top "A" Rollover	Yel-Wht-Blk	MPS-A13
Q19	J3-20	L19	Bottom "D" Rollover	Wht-Blu-Red	MPS-A13
Q20	J3-18	L20	Bottom "C" Rollover	Wht-Orn-Red	MPS-A13
Q21	J3-16	L21	Bottom "A" Rollover	Wht-Bm-Red	MPS-A13
Q22	J3-17	L22	Bottom "B" Rollover	Wht-Grn-Red	MPS-A13
Q23	J3-15	L23	1,000 Bonus	Wht-Pur-Red	MPS-A13
Q24	J3-14	L24	2,000 Bonus	Wht-Yel-Red	MPS-A13
Q33	J3-12	L25	3,000 Bonus	Wht-Blu-Blk	MPS-A13
Q34	J3-13	L26	4,000 Bonus	Wht-Orn-Blk	MPS-A13
Q35	J3-11	L27	5,000 Bonus	Wht-Bm-Blk	MPS-A13
Q36	J3-9	L28	6,000 Bonus	Wht-Grn-Blk	MPS-A13
Q37	J3-7	L29	7,000 Bonus	Wht-Pur-Blk	MPS-A13
Q38	J3-8	L30	8,000 Bonus	Wht-Yel-Blk	MPS-A13
Q39	J3-6	L31	9,000 Bonus	Blu-Wht-Wht	MPS-A13
Q40	J3-5	L32	10,000 Bonus	Orn-Wht-Wht	MPS-A13
Q41	J3-4	L33	Not Used	Bm-Wht-Wht	MPS-A13
Q42	J3-3	L34	Not Used	Grn-Wht-Wht	MPS-A13
Q43	J3-2	L35	Left Extra Ball	Pur-Wht-Wht	MPS-A13
Q44	J3-1	L36	Right Extra Ball	Yel-Wht-Wht	MPS-A13
Q32	J4-6	Solenoid 1	Outhole	Blu-Red	2N6043
Q25	J2-1	Solenoid 2	Knocker	Orn-Red	2N6043
Q26	J2-2	Solenoid 3	10's chime	Orn-Blk	2N6043
Q27	J2-3	Solenoid 4	100's chime	Grn-Red	2N6043
Q28	J2-4	Solenoid 5	1000's chime	Pur-Red	2N6043
Q31	J4-5	Solenoid 6	Right Vari-Target	Yel-Red	2N6043
Q30	J4-4	Solenoid 7	Left Vari-Target	Blu-Blk	2N6043
Q29 - Q45	J4-2	Solenoid 8	Not Used	Orn-Blk	MPS-U45 - 2N3055

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		Wht-Blu	A3J5-18	Q01	MPS-U45	A-16890
	L02	Tilt Relay	Controlled	Red		Wht-Orn	A3J5-19	Q02	MPS-U45	A-16890
	Sol. 1	Outhole	Controlled	Red	½ Amp Slo-Blo	Blu-Red	A3J4-6	Q32	2N6043	A-16570
	Sol. 2	Knocker	Controlled	Red		Orn-Red	A3J2-1	Q25	2N6043	A-5195
	Sol. 3	10's chime	Controlled			Orn-Blk	A3J2-2	Q26	2N6043	Sound Board
	Sol. 4	100's chime	Controlled			Grn-Red	A3J2-3	Q27	2N6043	Sound Board
	Sol. 5	1000's chime	Controlled			Pur-Red	A3J2-4	Q28	2N6043	Sound Board
	Sol. 6	Right Vari-Target	Controlled	Red		Yel-Red	A3J4-5	Q31	2N6043	A-17564
	Sol. 7	Left Vari-Target	Controlled	Red		Blu-Blk	A3J4-4	Q30	2N6043	A-17564
	Sol. 8	Not Used	Controlled			Orn-Blk	A3J4-2	Q29 - Q45	MPS-U45 - 2N3055	
		Left Pop Bumper	Directly	Bm-Blk				Switch		A-1496
		Right Pop Bumper	Directly	Bm-Blk				Switch		A-1496
		Kicking Rubber	Directly	Bm-Blk				Switch		A-5194
		Coin Lockout	Directly	Red			A6J1-11	Wired directly to ground		A-16890
		Left Flipper	Directly	Bm-Blk		Grn-Blk	A6J5-4	Button		A-17875
		Right Flipper	Directly	Bm-Blk		Pur-Blk	A6J5-5	Button		A-17875

2N6043 can be replaced with a TIP 102