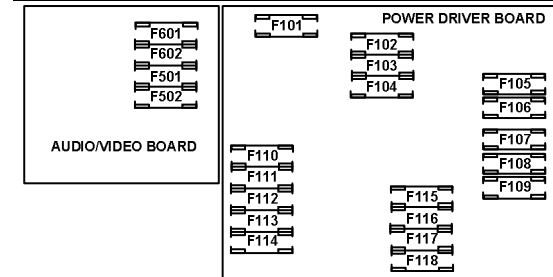


FUSE LIST

AUDIO/VIDEO BOARD			POWER DRIVER BOARD					
F501	-25V	T2.5A, 250V	F101	Regulated 12V	T0.63A, 250V	F110	G.I. #5 White-Violet	T4.0A, 250V
F502	+25V	T2.5A, 250V	F102	Solenoids #25 to #28	T4.0A, 250V	F111	G.I. #4 White-Green	T4.0A, 250V
F601	+62V	T0.315A, 250V	F103	Solenoids #1 to #8	T4.0A, 250V	F112	G.I. #3 White-Yellow	T4.0A, 250V
F602	-113V & -125V	T0.315A, 250V	F104	Solenoids #9 to #16	T4.0A, 250V	F113	G.I. #2 White-Orange	T4.0A, 250V
			F105	+5V Logic	T4.0A, 250V	F114	G.I. #1 White-Brown	T4.0A, 250V
			F106	+18V Lamp Matrix	T5.0A, 250V	F115	+50V Flippers	T4.0A, 250V
			F107	Flasher Secondary	T4.0A, 250V	F116	+50V Flippers	T4.0A, 250V
			F108	Solenoid Secondary	T6.3A, 250V	F117	+50V Flippers	T4.0A, 250V
			F109	Unregulated 12V	T4.0A, 250V	F118	+50V Flippers	T4.0A, 250V



CAUTION: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH THE SAME TYPE OF FUSE HAVING THE SAME ELECTRICAL RATINGS.
ATTENTION: UTILISER UN FUSIBLE DE RECHARGE DE MEME TYPE.

SOLENOID/FLASHER TABLE

Sol. No.	Function	Solenoid Type	Voltage Connections			Drive Xistor	Drive Connections			Drive Wire Color	Solenoid Part Number Flashlamp Type	
			Playfield	Backbox	Cabinet		Playfield	Backbox	Cabinet		Playfield	Backbox
01	AUTO PLUNGER	High Power	J133-2			Q72	J116-1			VIO-BRN	AE-23-800	
02	TROUGH EJECT	High Power	J133-2			Q68	J116-2			VIO-RED	AE-26-1500	
03	LEFT POPPER	High Power	J133-2			Q71	J116-4			VIO-ORG	AE-26-1200	
04	CASTLE	High Power	J133-2			Q67	J116-5			VIO-YEL	AE-26-1500	
05	CASTLE GATE POWER	High Power	J133-2			Q70	J116-6			VIO-GRN	A-20099	
06	CASTLE GATE HOLD	High Power	J133-2			Q66	J116-7			VIO-BLU		
07	KNOCKER	High Power	J133-2	J133-2		Q69	J116-8	J116-8		VIO-BLK	AE-23-800	
08	CATAPULT	High Power	J133-2			Q65	J116-9			VIO-GRY	AE-23-800	
09	RIGHT EJECT	Low Power	J133-3			Q44	J113-1			BRN-BLK	AE-27-1200	
10	LEFT SLINGSHOT	Low Power	J133-3			Q48	J113-3			BRN-RED	AE-26-1200	
11	RIGHT SLINGSHOT	Low Power	J133-3			Q43	J113-4			BRN-ORG	AE-26-1200	
12	LEFT JET BUMPER	Low Power	J133-3			Q47	J113-5			BRN-YEL	AE-26-1200	
13	BOTTOM JET BUMPER	Low Power	J133-3			Q42	J113-6			BRN-GRN	AE-26-1200	
14	RIGHT JET BUMPER	Low Power	J133-3			Q46	J113-7			BRN-BLU	AE-26-1200	
15	TOWER DIVERTER PWR	Low Power	J133-3			Q41	J113-8			BRN-VIO	A-20099	
16	TOWER DIVERTER HOLD	Low Power	J133-3			Q45	J113-9			BRN-GRY		
17	LEFT SIDE LOW FLSHRS	Flasher	J133-6	J134-5		Q28	J111-1	J112-1		BLK-BRN	#906	#906
18	LEFT RAMP FLASHERS	Flasher	J133-6	J134-5		Q32	J111-2	J112-2		BLK-RED	#89	#906
19	LEFT SIDE HIGH FLASHERS	Flasher	J133-6	J134-5		Q27	J111-3	J112-3		BLK-ORG	#906	#906
20	RIGHT SIDE HIGH FLASHERS	Flasher	J133-6	J134-5		Q31	J111-4	J112-4		BLK-YEL	#906	#906
21	RIGHT RAMP FLASHERS	Flasher	J133-6			Q26	J111-5			BLU-GRN	#906	#89
22	CASTLE RIGHT SIDE FLASHERS	Flasher	J133-6			Q30	J111-6			BLU-BLK	#906 (2)	
23	RIGHT SIDE LOW FLASHERS	Flasher	J133-6			Q25	J111-7			BLU-VIO	#906	#89
24	MOAT FLASHERS	Flasher	J133-6			Q29	J111-8			BLU-GRY	#89 (2)	
25	CASTLE LEFT SIDE FLASHS	Gen. Purpose	J133-6			Q16	J109-1			BLU-BRN	#906 (2)	
26	*TOWER LOCK POST	Gen. Purpose	J133-1			Q15	J109-2			BLU-RED	AE-27-1200	
27	*RIGHT GATE	Gen. Purpose	J133-1			Q14	J109-3			BLU-ORG	A-14406	
28	*LEFT GATE	Gen. Purpose	J133-1			Q13	J109-4			BLU-YEL	A-14406	

General Illumination	Solenoid Type	Voltage Connections			Drive Xistor	Drive Connections			Drive Wire Color	Bulb Type	
		Playfield	Insert	Cabinet		Playfield	Insert	Cabinet		Playfield	Insert
01	BOTTOM PLAYFIELD	G.I.	J106-1	J105-1	Q5	J106-7	J105-7		WHT-BRN	#44	#555
02	MIDDLE PLAYFIELD	G.I.	J106-1	J105-2	Q4	J106-7	J105-8		WHT-ORG		#555
03	TOP PLAYFIELD	G.I.	J106-1	J105-3	Q3	J106-7	J105-9		WHT-YEL		#555
04	**TOP INSERT	G.I.	J105-5		Q2	J106-10			WHT-GRN	#44	
05	**BOTTOM INSERT	G.I.	J105-6		Q1	J106-11			WHT-VIO	#44	

Flipper Circuits	Solenoid Type	Voltage Connections		Drive Transistors		Drive Connections		Drive Wire Colors		Coil Part No.	Coil Colors
		Playfield	Power	Hold	Playfield	Power	Hold	Playfield	Power		
29	LOWER RIGHT FLIPPER	Power	J119-1 (RED-GRN)	Q90		J120-13		YEL-GRN	FL-11629	BLUE	
30	LOWER RIGHT FLIPPER	Hold	J119-1 (RED-GRN)	Q92		J120-11		ORG-GRN			
31	LOWER LEFT FLIPPER	Power	J119-4 (RED-BLU)	Q67		J120-9		YEL-BLU	FL-11629	BLUE	
32	LOWER LEFT FLIPPER	Hold	J119-4 (RED-BLU)	Q69		J120-7		ORG-BLU			
33	LEFT TROLL	Power	J119-6 (RED-VIO)	Q84		J120-6		YEL-VIO	FL-11753	YELLOW	
34	LEFT TROLL	Hold	J119-6 (RED-VIO)	Q86		J120-4		ORG-VIO			
35	RIGHT TROLL	Power	J119-8 (RED-GRY)	Q81		J120-3		YEL-GRY	FL-11753	YELLOW	
36	RIGHT TROLL	Hold	J119-8 (RED-GRY)	Q83		J120-1		ORG-GRY			

Motor Circuit	Solenoid Type	Voltage Connections	Drive Gates	Drive Connections	Drive Wire Color	Device Part Number
37	DRAWBRIDGE MOTOR	J139-2	U3A, U3B	J110-1	BRN-WHT	14-8015

J1XX = POWER DRIVER BOARD

*Tieback diodes for solenoids 26 through 28 are at J109-6, J109-8, and J109-9 respectively

**These general illumination strings do not brighten and dim, they are always on

LAMP MATRIX

Column	Yellow (B+) → Red							
	1 Yellow-Brown J121-1 Q96	2 Yellow-Red J121-2 Q100	3 Yellow-Orange J121-3 Q95	4 Yellow-Black J121-4 Q99	5 Yellow-Green J121-5 Q94	6 Yellow-Blue J121-6 Q98	7 Yellow-Violet J121-7 Q93	8 Yellow-Grey J121-9 Q97
1 Red-Brown J125-1 Q104	RIGHT BANK TOP 11	RIGHT LOOP JACKPOT 21	TROLLS 31	LEFT LOOP JACKPOT 41	CENTER ARROW 51	FRANCOIS D'GRIMM 61	HOWARD HURTZ 71	RIGHT OUTLANE 81
2 Red-Black J125-2 Q108	RIGHT BANK MIDDLE 12	RIGHT JOUST VICTORY 22	EXTRA BALL 32	LEFT JOUST VICTORY! 42	BATTLE FOR THE KINGDOM 52	KING OF PAYNE 62	MAGIC SHIELD 72	RIGHT RETURN 82
3 Red-Orange J125-4 Q103	RIGHT BANK BOTTOM 13	RIGHT CLASH! 23	MERLIN'S MAGIC 33	LEFT CLASH! 43	MASTER OF TROLLS 53	EARL OF EGO 63	SIR PSYCHO 73	LEFT RETURN 83
4 Red-Yellow J125-5 Q107	RIGHT RAMP JACKPOT 14	RIGHT CHARGE! 24	TROLL MADNESS 34	LEFT CHARGE! 44	DEFENDER OF DAMSELS 54	LEFT RAMP JACKPOT 64	DUKE OF BOURBON 74	LEFT OUTLANE 84
5 Red-Green J125-6 Q102	SAVE THE DAMSEL (2) 15	PATRON OF THE PEASANTS 25	DAMSEL MADNESS 35	CATAPULT JACKPOT 45	LEFT TOP LANE 55	REVOLTING PEASANTS! 65	CASTLE LOCK 2 75	CASTLE LOCK 3 85
6 Red-Blue J125-7 Q106	DRAGON DEATH 16	CATAPULT ACE 26	PEASANT MADNESS 36	CATAPULT SLAM! 46	RIGHT TOP LANE 56	UGLY RIOT! 66	CASTLE LOCK 1 76	SHOOT AGAIN 86
7 Red-Violet J125-8 Q101	DRAGON SNACK 17	JOUST CHAMPION 27	CATAPULT MADNESS 37	BAM! 47	LEFT TROLL TARGET 57	ANGRY MOB! 67	SUPER JACKPOT 77	LAUNCH BUTTON 87
8 Red-Grey J125-9 Q105	DRAGON BREATH 18	CASTLE CRUSHER 28	JOUST MADNESS 38	WAM! 48	RIGHT TROLL TARGET 58	RABBLE ROUSER 68	SUPER JETS (2) 78	START BUTTON 88

J1XX = Power Driver Board

SWITCH MATRIX

DEDICATED GROUNDED SWITCHES	Column	Green → White								FLIPPER GROUNDED SWITCHES
		1 Green-Brown J206-1 U20-18	2 Green-Red J206-2 U20-17	3 Green-Orange J206-3 U20-16	4 Green-Yellow J206-4 U20-15	5 Green-Black J206-5 U20-14	6 Green-Blue J206-6 U20-13	7 Green-Violet J206-7 U20-12	8 Green-Grey J206-9 U20-11	
Orange-Brown J205-1 LEFT COIN CHUTE U17-5	1 White-Brown J208-1 U18-11	LAUNCH BALL 11	SLAM TILT 21	TROUGH EJECT 31	MOAT ENTER 41	LEFT SLINGSHOT 51	LEFT RAMP ENTER 61	RIGHT BANK TOP 71	NOT USED 81	Black-Green J208-13 Lower Right Flipper E.O.S. F1
Orange-Red J205-2 CENTER COIN CHUTE U17-7	2 White-Red J208-2 U18-9	CATAPULT TARGET 12	COIN DOOR CLOSED 22	TROUGH BALL 1 32	NOT USED 42	RIGHT SLINGSHOT 52	LEFT RAMP EXIT 62	RIGHT BANK MIDDLE 72	NOT USED 82	Blue-Violet J212-12 Lower Right Flipper Opto F2
Orange-Black J205-3 RIGHT COIN CHUTE U17-11	3 White-Orange J208-3 U18-5	START BUTTON 13	NOT USED 23	TROUGH BALL 2 33	NOT USED 43	LEFT JET BUMPER 53	RIGHT RAMP ENTER 63	RIGHT BANK BOTTOM 73	NOT USED 83	Black-Blue J208-12 Lower Left Flipper E.O.S. F3
Orange-Yellow J205-4 4TH COIN CHUTE U17-9	4 White-Yellow J208-4 U18-7	PLUMB BOB TILT 14	ALWAYS CLOSED 24	TROUGH BALL 3 34	CASTLE LOCK 44	BOTTOM JET BUMPER 54	RIGHT RAMP EXIT 64	LEFT TROLL UP 74	NOT USED 84	Blue-Gray J212-11 Lower Left Flipper Opto F4
Orange-Green J205-6 U16-9 Normal Function Srv Crdts	5 White-Green J208-5 U19-11	LEFT TROLL TARGET 15	RIGHT TROLL TARGET 25	TROUGH BALL 4 35	LEFT TROLL (UNDER PLAYFIELD) 45	RIGHT JET BUMPER 55	LEFT LOOP LOW 65	RIGHT TROLL UP 75	NOT USED 85	Black-Violet J208-11 Upper Right Flipper E.O.S. F5
Orange-Blue J205-7 U16-11 Normal Function Volume Dn	6 White-Blue J208-7 U19-9	LEFT OUTLANE 16	LEFT RETURN LANE 26	LEFT POPPER 36	RIGHT TROLL (UNDER PLAYFIELD) 46	DRAW-BRIDGE UP 56	LEFT LOOP HIGH 66	NOT USED 76	NOT USED 86	Black-Yellow J212-10 Upper Right Flipper Opto F6
Orange-Violet J205-8 U16-7 Normal Function Volume Up	7 White-Violet J208-8 U19-5	RIGHT RETURN LANE 17	RIGHT OUTLANE 27	CASTLE GATE 37	LEFT TOP LANE 47	DRAW-BRIDGE DOWN 57	RIGHT LOOP LOW 67	NOT USED 77	NOT USED 87	Black-Gray J208-10 Upper Left Flipper E.O.S. F7
Orange-Grey J205-9 U16-5 Normal Function Begin Test	8 White-Grey J208-9 U19-7	SHOOTER LANE 18	RIGHT EJECT 28	CATAPULT 38	RIGHT TOP LANE 48	TOWER EXIT 58	RIGHT LOOP HIGH 68	NOT USED 78	NOT USED 88	Black-Blue J212-9 Upper Left Flipper Opto F8

J2XX = CPU Board = OPTO, TYPICALLY CLOSED