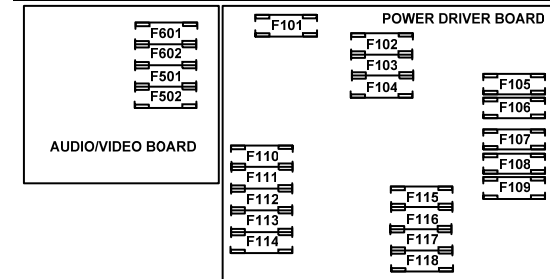


FUSE LIST

AUDIO/VIDEO BOARD		POWER DRIVER BOARD		FUSE RATINGS		
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	
			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		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 FLASHERS	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.		J105-2	Q4		J105-8				#555
03	TOP PLAYFIELD	G.I.		J105-3	Q3		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		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		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		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		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	Row	1	2	3	4	5	6	7	8
		Yellow-Brown J121-1 Q96	Yellow-Red J121-2 Q100	Yellow-Orange J121-3 Q95	Yellow-Black J121-4 Q99	Yellow-Green J121-5 Q94	Yellow-Blue J121-6 Q98	Yellow-Violet J121-7 Q93	Yellow-Grey J121-9 Q97
1 Red-Brown J125-2 Q104	RIGHT BANK TOP	RIGHT LOOP JACKPOT	TROLLS	LEFT LOOP JACKPOT	CENTER ARROW	FRANCOIS D'GRIMM	HOWARD HURTZ	RIGHT OUTLANE	
2 Red-Black J125-2 Q108	RIGHT BANK MIDDLE	RIGHT JOUST VICTORY	EXTRA BALL	LEFT JOUST VICTORY!	BATTLE FOR THE KINGDOM	KING OF PAYNE	MAGIC SHIELD	RIGHT RETURN	
3 Red-Orange J125-4 Q103	RIGHT BANK BOTTOM	RIGHT CLASH!	MERLIN'S MAGIC	LEFT CLASH!	MASTER OF TROLLS	EARL OF EGO	SIR PSYCHO	LEFT RETURN	
4 Red-Yellow J125-5 Q107	RIGHT RAMP JACKPOT	RIGHT CHARGE!	TROLL MADNESS	LEFT CHARGE!	DEFENDER OF DAMSELS	LEFT RAMP JACKPOT	DUKE OF BOURBON	LEFT OUTLANE	
5 Red-Green J125-6 Q102	SAVE THE DAMSEL (2)	PATRON OF THE PEASANTS	DAMSEL MADNESS	CATAPULT JACKPOT	LEFT TOP LANE	REVOLTING PEASANTS!	CASTLE LOCK 2	CASTLE LOCK 3	
6 Red-Blue J125-7 Q106	DRAGON DEATH	CATAPULT ACE	PEASANT MADNESS	CATAPULT SLAM!	RIGHT TOP LANE	UGLY RIOT!	CASTLE LOCK 1	SHOOT AGAIN	
7 Red-Violet J125-8 Q101	DRAGON SNACK	JOUST CHAMPION	CATAPULT MADNESS	BAM!	LEFT TROLL TARGET	ANGRY MOB!	SUPER JACKPOT	LAUNCH BUTTON	
8 Red-Grey J125-9 Q105	DRAGON BREATH	CASTLE CRUSHER	JOUST MADNESS	WAM!	RIGHT TROLL TARGET	RABBLE ROUSER	SUPER JETS (2)	START BUTTON	

J1XX = Power Driver Board

SWITCH MATRIX

DEDICATED GROUNDED SWITCHES	Column	Row	1	2	3	4	5	6	7	8	FLIPPER GROUNDED SWITCHES
			Green-Brown J206-1 U20-18	Green-Red J206-2 U20-17	Green-Orange J206-3 U20-16	Green-Yellow J206-4 U20-15	Green-Black J206-5 U20-14	Green-Blue J206-6 U20-13	Green-Violet J206-7 U20-12	Green-Grey J206-9 U20-11	
Orange-Brown J205-1 LEFT COIN CHUTE U17-5	White-Brown J208-1 U18-11	D1	LAUNCH BALL	SLAM TILT	TROUGH EJECT	MOAT ENTER	LEFT SLINGSHOT	LEFT RAMP ENTER	RIGHT BANK TOP	NOT USED	Black-Green J208-13 Lower Right Flipper E.O.S.
Orange-Red J205-2 CENTER COIN CHUTE U17-7	White-Red J208-2 U18-9	D2	CATAPULT TARGET	COIN DOOR CLOSED	TROUGH BALL 1	NOT USED	RIGHT SLINGSHOT	LEFT RAMP EXIT	RIGHT BANK MIDDLE	NOT USED	Blue-Violet J212-12 Lower Right Flipper Opto
Orange-Black J205-3 RIGHT COIN CHUTE U17-11	White-Orange J208-3 U18-5	D3	START BUTTON	NOT USED	TROUGH BALL 2	NOT USED	LEFT JET BUMPER	RIGHT RAMP ENTER	RIGHT BANK BOTTOM	NOT USED	Black-Blue J208-12 Lower Left Flipper E.O.S.
Orange-Yellow J205-4 4TH COIN CHUTE U17-9	White-Yellow J208-4 U18-7	D4	PLUMB BOB TILT	ALWAYS CLOSED	TROUGH BALL 3	CASTLE LOCK	BOTTOM JET BUMPER	RIGHT RAMP EXIT	LEFT TROLL UP	NOT USED	Blue-Gray J212-11 Lower Left Flipper Opto
Orange-Green J205-6 Normal Function U16-9 Test Function Srv Crdts Escape	White-Green J208-5 U19-11	D5	LEFT TROLL TARGET	RIGHT TROLL TARGET	TROUGH BALL 4	LEFT TROLL (UNDER PLAYFIELD)	RIGHT JET BUMPER	LEFT LOOP LOW	RIGHT TROLL UP	NOT USED	Black-Violet J208-11 Upper Right Flipper E.O.S.
Orange-Blue J205-7 Normal Function Volume Dn	White-Blue J208-7 U19-9	D6	LEFT OUTLANE	LEFT RETURN LANE	LEFT POPPER	RIGHT TROLL (UNDER PLAYFIELD)	DRAW-BRIDGE UP	LEFT LOOP HIGH	NOT USED	NOT USED	Black-Yellow J212-10 Upper Right Flipper Opto
Orange-Violet J205-8 Normal Function Volume Up	White-Violet J208-8 U19-5	D7	RIGHT RETURN LANE	RIGHT OUTLANE	CASTLE GATE	LEFT TOP LANE	DRAW-BRIDGE DOWN	RIGHT LOOP LOW	NOT USED	NOT USED	Black-Gray J208-10 Upper Left Flipper E.O.S.
Orange-Grey J205-9 Normal Function Begin Test	White-Grey J208-9 U19-7	D8	SHOOTER LANE	RIGHT EJECT	CATAPULT	RIGHT TOP LANE	TOWER EXIT	RIGHT LOOP HIGH	NOT USED	NOT USED	Black-Blue J212-9 Upper Left Flipper Opto

J2XX = CPU Board = OPTO, TYPICALLY CLOSED