

AMERICAN



PINBALL

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833-API-HELP

FUSES

Fuse Name	Fuse Rating	Voltage	Type	Fuse Voltage
Coil Driver C5	6.3 Amp	48 VDC	5x20 Slow Blow	250 Volt
	6.3 Amp	48 VDC	5x20 Slow Blow	250 Volt
Coil Driver C6	6.3 Amp	48 VDC	5x20 Slow Blow	250 Volt
	4 Amp	12 VDC	5x20 Slow Blow	250 Volt
Main Fuse	6 Amp (US)	120 VAC OR 230 VAC	3AG Slow Blow	250 Volt
	3 Amp (EU)			
Add On Board F1	4 Amp	12 VDC	5x20 Slow Blow	250 Volt
Add On Board F2	4 Amp	48 VDC	5x20 Slow Blow	250 Volt

Board C5 - Dip Switch 1,3 ON

Coil Locations

Q = Transistor IRL540N

	BRN	BLK	BRN	GRY	BRN	RED	BRN	ORG	BRN	YEL	BRN	GRN	BRN	BLU	BRN	VIO
48v Power	Pin#1		Pin#3		Pin#4		Pin#5		Pin#6		Pin#7		Pin#8		Pin#9	
	Auto Fire		Through Kicker		Lower Catapult		Right flipper Main		Right flipper Hold		Left Flipper Main		Left Flipper Hold		Left Slingshot	
	Q1		Q2		Q3		Q4		Q5		Q6		Q7		Q8	
	BLU	BLK	BLU	BRN	BLU	RED	BLU	ORG	BLU	YEL	BLU	GRN	BLU	GRY	BLU	VIO
48v Power	Pin#1		Pin#2		Pin#4		Pin#5		Pin#6		Pin#7		Pin#8		Pin#9	
	Trunk Diverter		Upper VUK		Subway Release		Scoop		Left Magnet		Right Magnet		Center Magnet		Right Slingshot	
	Q9		Q10		Q11		Q12		Q13		Q14		Q15		Q16	

Board C6 - Dip Switch 2,3 ON

Coil Locations

Q = Transistor IRL540N

	BLK	GRY	BLK	BRN	BLK	RED	BLK	ORG	BLK	YEL	BLK	GRN	BLK	BLU	BLK	VIO
12v Power	Pin#1		Pin#3		Pin#4		Pin#5		Pin#6		Pin#7		Pin#8		Pin#9	
	General Illumination		Spotlight lower left		Not Used		Backpanel LED strip		Not Used		Spotlight Lower Right		Spotlight Stage		Spotlight Trunk	
	Q1		Q2		Q3		Q4		Q5		Q6		Q7		Q8	
	RED	BLK	RED	BRN	RED	GRY	RED	ORG	RED	YEL	RED	GRN	RED	BLU	RED	VIO
48v Power	Pin#1		Pin#2		Pin#4		Pin#5		Pin#6		Pin#7		Pin#8		Pin#9	
	Left Lock Release		Left Popbumper		Right Popbumper		Top Popbumper		UpPost Diverter		Upper Catapult		Trunk Lid		Not Used	
	Q9		Q10		Q11		Q12		Q13		Q14		Q15		Q16	

Add-on board PCB0021_00

Aux Locations

Q = Transistor IRL540N

F1 Fuse	VIN-1	BLK 1	YEL 2	BLK	YEL					F2 Fuse	VIN-2	BLK 1	BRN 3
4 amp		DRV-1		DRV-2						4 amp		DRV-5	
5-20mm	12v Power	Start Button		Shaker						5-20mm	48v Power	Knocker	
Slow Blow		Q1		Q2						Slow Blow		Q5	



Switch Locations - Board 0 - Dip switch - All off																
Board 0 J2-Bank A	Return 1 Pin 2		Return 2 Pin 3		Return 3 Pin 4		Return 4 Pin 5		Return 5 Pin 6		Return 6 Pin 7		Return 7 Pin 8		Return 8 Pin 9	
Ground	BLK S/U	GRY 0	BLK S/U	BRN 1	BLK S/U	RED 2	BLK S/U	ORG 3	BLK S/U	YEL 4	BLK S/U	GRN 5	BLK S/U	BLU 6	BLK S/U	VIO 7
BLK - pin 10	(E)scape		e(S)cape		es(C)ape		esc(A)pe		esca(P)e		escap(E)		Left Orbit		Right Orbit	
Board 0 J6-Bank B	Return 1 Pin 2		Return 2 Pin 3		Return 3 Pin 4		Return 4 Pin 5		Return 5 Pin 6		Return 6 Pin 7		Return 7 Pin 8		Return 8 Pin 9	
Ground	BRN Micro	BLK 8	BRN Micro	GRY 9	BRN S/U	RED 10	BRN Leaf	ORG 11	BRN Micro	YEL 12	BRN Micro	GRN 13	BRN Micro	BLU 14	BRN Micro	VIO 15
BLK - pin 10	Lower Catapult		Milk Can		Left Magic Standup		Left Slingshot		Left In-lane		Left Outlane		Left Flipper EOS		Upper Catapult	
Board 1 - Dip switch 1 ON																
Board 1 J2-Bank A X14-Opto	Return 1 Pin 2 on SW-16 Pin10-PlugX9-Opto		Return 2 Pin 3 on SW-16 Pin11-PlugX10-Opto		Return 3 Pin 4 on SW-16		Return 4 Pin 5 on SW-16		Return 5 Pin 6 on SW-16		Return 6 Pin 7 on SW-16		Return 7 Pin 8 on SW-16		Return 8 Pin 9 on SW-16	
Ground	RED Opto	BLK 16	RED Opto	BRN 17	RED Opto	GRY 18	RED Opto	ORG 19	RED Micro	YEL 20	RED Micro	GRN 21	RED Micro	BLU 22	RED Micro	VIO 23
BLK - pin 10	Ramp Entry		Wire Ramp Exit		Stage Back		Stage		Left lock 1		Left lock 2		Left lock 3		Middle Upper Orbit	
Board 1 J6-Bank B	Return 1 Pin 2		Return 2 Pin 3		Return 3 Pin 4		Return 4 Pin 5		Return 5 Pin 6		Return 6 Pin 7		Return 7 Pin 8		Return 8 Pin 9	
Ground	ORG	BLK 24	ORG Micro	BRN 25	ORG S/U	RED 26	ORG Leaf	GRY 27	ORG Leaf	YEL 28	ORG Leaf	GRN 29	ORG Micro	BLU 30	ORG Micro	VIO 31
BLK - pin 10	Not Used		VUK		Key Standup		Top Popbumper		Right Popbumper		Left Popbumper		Stage Alley		Key Lane	
Board 2 - Dip switch 2 ON																
Board 2 J2-Bank A X14-Opto	Return 1 Pin 2 on SW-16 Pin3-PlugX2-Opto		Return 2 Pin 3 on SW-16 Pin4-PlugX3-Opto		Return 3 Pin 4 on SW-16 Pin5-PlugX4-Opto		Return 4 Pin 5 on SW-16 Pin6-PlugX5-Opto		Return 5 Pin 6 on SW-16 Pin7-PlugX6-Opto		Return 6 Pin 7 on SW-16 Pin8-PlugX7-Opto		Return 7 Pin 8 on SW-16 Pin9-PlugX8-Opto		Return 8 Pin 9 on SW-16	
Ground	YEL Opto	BLK 32	YEL Opto	BRN 33	YEL Opto	RED 34	YEL Opto	ORG 35	YEL Opto	GRY 36	YEL Opto	GRN 37	YEL Opto	BLU 38	YEL Leaf	VIO 39
BLK - pin 10	Right Lock #1		Right lock #2		Right Lock #3		Magic Shop		Front of Stage		Stage Exit		Trunk		Trunk Lid	
Board 2 J6-Bank B	Return 1 Pin 2		Return 2 Pin 3		Return 3 Pin 4		Return 4 Pin 5		Return 5 Pin 6		Return 6 Pin 7		Return 7 Pin 8		Return 8 Pin 9	
Ground	GRN S/U	BLK 40	GRN S/U	BRN 41	GRN S/U	RED 42	GRN S/U	ORG 43	GRN S/U	YEL 44	GRN S/U	GRY 45	GRN Micro	BLU 46	GRN Micro	VIO 47
BLK - pin 10	(S)eance		s(E)ance		se(A)nce		sea(N)ce		sean(C)e		seand(E)		Right Inner Loop		Upper Inner Loop	
Board 3 - Dip switch 1,2,8 ON																
Board 3 J2-Bank A	Return 1 Pin 2		Return 2 Pin 3		Return 3 Pin 4		Return 4 Pin 5		Return 5 Pin 6		Return 6 Pin 7		Return 7 Pin 8		Return 8 Pin 9	
Ground	BLU Micro	BLK 48	BLU Micro	BRN 49	BLU Micro	RED 50	BLU Micro	ORG 51	BLU Micro	YEL 52	BLU Micro	GRN 53	BLU Micro	GRY 54	BLU Micro	VIO 55
BLK - pin 10	Ball Trough #1		Ball Through #2		Ball Trough #3		Ball Through #4		Ball Trough #5		Ball Through #6		Ball Through Jam		Unused	
Board 3 J3-Bank B	Return 1 Pin 2		Return 2 Pin 3		Return 3 Pin 4		Return 4 Pin 5		Return 5 Pin 6		Return 6 Pin 7		Return 7 Pin 8		Return 8 Pin 9	
Ground	VIO Micro	BLK 56	VIO Micro	BRN 57	VIO Leaf	RED 58	VIO Micro	ORG 59	VIO Leaf	YEL 60	VIO S/U	GRY 61	VIO Micro	BLU 62	VIO Micro	GRY 63
BLK - pin 10	Shooter Lane		Right Outlane		Right Flipper EOS		Right Inlane		Right Slingshot		right magic standup		Scoop		Spinner	
Board 4 - Dip switch 3,8 ON																
Board 4 J2-Bank A	Return 1 Pin 2		Return 2 Pin 3		Return 3 Pin 4		Return 4 Pin 5		Return 5 Pin 6		Return 6 Pin 7		Return 7 Pin 8		Return 8 Pin 9	
Ground	WHT Leaf	BLK 64	WHT Leaf	BRN 65	WHT Micro	RED 66	WHT Push	ORG 67	WHT Push	YEL 68	WHT Push	GRN 69	WHT Push	BLU 70	WHT N/A	VIO 71
BLK - pin 10	Left Flipper button		Right flipper button		Start Button		Enter		Exit		Down		Up		Tilt	
Board 4 J6-Bank B	Return 1 Pin 2		Return 2 Pin 3		Return 3 Pin 4		Return 4 Pin 5		Return 5 Pin 6		Return 6 Pin 7		Return 7 Pin 8		Return 8 Pin 9	
Ground	GRY N/A	BLK 72	GRY Push	BRN 73	GRY Micro	RED 74	GRY Micro	ORG 75	GRY Opto	YEL 76	GRY Opto	GRY 77	GRY Leaf	BLU 78	GRY Open	WHT 79
BLK - pin 10	Not Used		Not Used		Coin #1		Coin #2		Dollar Bill Acceptor		Not Used		Not Used		Not Used	