

AMERICAN PINBALL



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833-API-HELP

FUSES

Fuse Name	Fuse Rating	Voltage	Type	Fuse Voltage
Coil Driver	6.3 Amp	48 VDC	5x20 Slow Blow	250 Volt
	6.3 Amp	48 VDC	5x20 Slow Blow	250 Volt
Main Fuse	6 Amp (US) 3 Amp (EU)	120 VAC OR 230 VAC	3AG Slow Blow	250 Volt
Add On Board F1	4 Amp	12 VDC	5x20 Slow Blow	250 Volt
Add On Board F2	5 Amp	48 VDC	5x20 Slow Blow	250 Volt
RGB Back Panel	2 Amp	5 VDC	5x20 Slow Blow	250 Volt

Add-on board PCB0021_02

Coil Locations

Q = Transistor IRL540N

		BRN	BLK			BLU	BLK	BLU	BRN	BLU	RED	BLU	VIO
48v Power	J10 - Pin2	J10 - Pin3	J10 - Pin4	J10 - Pin5	J11 - Pin3	J11 - Pin4	J11 - Pin5	J11 - Pin6					
	Not Used	Knocker	Not Used	Not Used	Kick Back	Right Pop Bumper	Bottom Pop Bumper	Left Pop Bumper					
	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15					

Add-on board PCB0021_02

Aux Locations

Q = Transistor DMN3404L-7

	BLK	YEL	BLK	YEL	BLK	YEL		BLK	YEL				
12v Power	J1	J2	J3	J4	J5	J6	J7						
	Start Button	Backbox LED	Shaker Motor	Not Used	Spinning Car 12V	Not Used	Not Used						
	Q1	Q2	Q3	Q4	Q5	Q6	Q7						

Dip Switch 1,3,8 ON

PD-16 Coil Locations

Q = Transistor IRL540N

	RED	BLK	RED	BRN	RED	GRY	RED	ORG	RED	YEL	RED	GRN	RED	BLU	RED	VIO
48v Power	Pin#1	Pin#3	Pin#4	Pin#5	Pin#6	Pin#7	Pin#8	Pin#9								
	Left Flipper Main	Left Flipper Hold	Left Slingshot	VUK	Upper Drop Target Reset	Upper Drop Target Trip	Not Used	Magnet								
	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8								
	BRN	BLK	BRN	GRY	BRN	RED	BRN	ORG	BRN	YEL	BRN	GRN	BRN	BLU	BRN	VIO
48v Power	Pin#1	Pin#2	Pin#4	Pin#5	Pin#6	Pin#7	Pin#8	Pin#9								
	Trough Kick	Auto Fire	Rt Flipper Main	Rt Flipper Hold	Right Slingshot	Lower Drop Target Trip	Lower Drop Target Reset	Saucer								
	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16								



11/18/2021

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Cabinet Switch Board 0- PCB0021-02

J9 Add-On Board			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 0	WHT Leaf	BRN 1	WHT	RED 2	WHT Push	ORG 3	WHT Push	YEL 4	WHT Push	GRN 5	WHT Push	BLU 6	WHT N/A	VIO 7
BLK-pin 10	Left Flipper button		Right Flipper button		Not Used		Enter		Exit		Down		Up		Tilt	
J8 Add-On Board	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 Push	BLK 8	GRY Push	BRN 9	GRY Micro	RED 10	GRY Micro	ORG 11	GRY Opto	YEL 12	GRY Opto	GRN 13	GRY Leaf	BLU 14	GRY Leaf	VIO 15
BLK-pin 10	Start Button		Interlock/Dooropen		Coin #1		Coin #2		Dollar Bill Acceptor		Coin #4		Coin #5		Coin #6	

SW-16 Board 1 - Dipswitch 1 ON

J2-Bank A X14-opto	Return 1 Pin2 on SW-16 PlugA - X2 opto		Return 2 Pin3 on SW-16 PlugB - X3 opto		Return 3 Pin4 on SW-16 PlugC - X4 opto		Return 4 Pin5 on SW-16 PlugD - X5 opto		Return 5 Pin6 on SW-16 PlugC - X6 opto		Return 6 Pin7 on SW-16 PlugB - X7 opto		Return 7 Pin8 on SW-16 PlugE - X8 opto		Return 8 Pin9 on SW-16 PlugF - X9 opto	
Ground	YEL Opto	BLK 16	YEL Opto	BRN 17	YEL Opto	RED 18	YEL Opto	ORG 19	YEL Opto	GRY 20	YEL Opto	GRN 21	YEL Opto	BLU 22	YEL Opto	VIO 23
BLK-pin 10	Upper Drop Target		Not Used		Not Used		Lower Drop Target		Right Ramp Enter		Right Ramp Made		Return Ramp Enter		Left Orbit Made	
J6-Bank B X14-opto	Return 1 Pin 2 on SW-16		Return 2 Pin 3 on SW-16		Return 3 Pin 4 on SW-16		Return 4 Pin 5 on SW-16 PlugG - X10 opto		Return 5 Pin 6 on SW-16 Plug X11 opto		Return 6 Pin 7 on SW-16 Plug X12 opto		Return 7 Pin 8 on SW-16 Plug X13 opto		Return 8 Pin 9 on SW-16	
Ground	VIO Micro	BLK 24	VIO Micro	BRN 25	VIO S/U	RED 26	VIO Opto	ORG 27	VIO Opto	YEL 28	VIO Opto	GRN 29	VIO Opto	BLU 30	VIO Opto	GRY 31
BLK-pin 10	Skill 3		Right Loop Made		Car Target 4		Return Ramp Made		Not Used		Not Used		Not Used		Not Used	

SW-16 Board 2 - Dipswitch 2 ON

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	BRN Micro	BLK 32	BRN Micro	GRY 33	BRN Micro	RED 34	BRN Micro	ORG 35	BRN S/U	YEL 36	BRN Opto	GRN 37	BRN Opto	BLU 38	BRN Micro	VIO 39
BLK-pin 10	Skill 2		Right Spinner		Car Target 3		Big Kick		Advance Bonus X		Not Used		Not Used		Right Loop Enter	
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	RED Leaf	BLK 40	RED Leaf	BRN 41	RED Micro	GRY 42	RED Micro	ORG 43	RED Micro	YEL 44	RED S/U	GRN 45	RED S/U	BLU 46	RED Micro	VIO 47
BLK-pin 10	Right Flipper EOS		Right Slingshot		Right Inlane		Right Outlane		Skill 1		Epic Start		Epic Collect		Sauce r	

SW-16 Board 3 - Dip switch 1,2 ON

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	ORG S/U	BLK 48	ORG S/U	BRN 49	ORG S/U	RED 50	ORG S/U	GRY 51	ORG S/U	YEL 52	ORG Micro	GRN 53	ORG Micro	BLU 54	ORG Micro	VIO 55
BLK-pin 10	BA(T)TLE		B(A)TTLE		(B)ATTLE		Car Target 2		Car Target 3		Left Spinner		Left Loop Enter		Left Loop Made	
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 56	GRN S/U	BRN 57	GRN S/U	RED 58	GRN Leaf	ORG 59	GRN Leaf	YEL 60	GRN Leaf	GRY 61	GRN Micro	BLU 62	GRN Micro	VIO 63
BLK-pin 10	(R)PM		R(P)M		RP(M)		Bottom Pop Bumper		Right Pop Bumper		Left Pop Bumper		Vertical Up Kicker		Left Orbit Enter	

SW-16 Board 4 - Dip switch 3,8 ON

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 Leaf	GRY 64	BLK Leaf	BRN 65	BLK Micro	RED 66	BLK Micro	ORG 67	BLK S/U	YEL 68	BLK S/U	GRN 69	BLK S/U	BLU 70	BLK S/U	VIO 71
BLK-pin 10	Left Flipper EOS		Left Slingshot		Left Inlane		Left Outlane		Pit Stop		BATT(L)E		BATT(L)E		BAT(T)LE	
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	BLU Opto	BLK 72	BLU Opto	BRN 73	BLU Opto	RED 74	BLU Opto	ORG 75	BLU Opto	YEL 76	BLU Opto	GRN 77	BLU Opto	GRY 78	BLU Micro	VIO 79
BLK-pin 10	Ball Trough 1		Ball Trough 2		Ball Trough 3		Ball Trough 4		Ball Trough 5		Ball Trough 6		Ball Trough Jam		Shooter Lane	