

AMERICAN



PINBALL

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833-API-HELP

FUSES

Fuse Name	Fuse Rating	Voltage	Type	Fuse Voltage
Coil Drive	6.3 Amp	48 VDC	5x20mm Slow Blow	250 Volt
	6.3 Amp	48 VDC	5x20mm 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 AND 48 VDC	5x20mm Slow Blow	250 Volt
RGB Back Panel	4 Amp	5 VDC	5x20mm Slow Blow	250 Volt

Add-on board PCB0021-02				Coil Locations				Q = Transistor IRL540N					
		BRN +	BLK -			RED +	BLK -	RED +	BRN	RED +	GRY	RED +	ORG
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	UPPER MAGNET	RIGHT VUK	LEFT VUK	3 BALL LOCK					
	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15					
Add-on board PCB0021-02				Aux Locations				Q = Transistor DMN3404L-7					
	BLK -	YEL +	BLK -	GRY +	BLK -	ORG +	BLK	BLU +					
12v Power	J1	J2	J3	J4	J5	J6	J7						
	START BUTTON	BACKBOX LED	SHAKER MOTOR	BARREL	Not Used	Not Used	Not Used						
	Q1	Q2	Q3	Q4	Q5	Q6	Q7						

Dip Switch 3,8 ON						PD-16 Coil Locations						Q = Transistor IRL540N					
	BLK	GRY	BLK	BRN	BLK	RED	BLK	ORG	BLK	YEL	BLK	GRN	BLK	BLU	BLK	VIO	
48v Power BankA - J7	Pin#1		Pin#3		Pin#4		Pin#5		Pin#6		Pin#7		Pin#8		Pin#9		
	LEFT SLINGSHOT		RIGHT SLINGSHOT		LEFT FLIPPER MAIN		LEFT FLIPPER HOLD		DRAIN UP POST MAIN		DRAIN UP POST HOLD		BALL TROUGH		AUTO LAUNCH		
	Q1		Q2		Q3		Q4		Q5		Q6		Q7		Q8		
J3 + ORG																	
	GRY	BLK	GRY	BRN	GRY	RED	GRY	ORG	GRY	YEL	GRY	GRN	GRY	BLU	GRY	VIO	
48v Power BankB - J11	Pin#1		Pin#2		Pin#4		Pin#5		Pin#6		Pin#7		Pin#8		Pin#9		
	RIGHT FLIPPER MAIN		RIGHT FLIPPER HOLD		CENTER MAGNET		RIGHT MAGNET		RAMP UP POST		CENTER POP BUMPER		LEFT POP BUMPER		RIGHT POP BUMPER		
	Q9		Q10		Q11		Q12		Q13		Q14		Q15		Q16		
Add-on board PCB0021-02						Coil Locations						Q = Transistor IRL540N					



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Cabinet Switch Board 0 - PCB0021-02

J9 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	WHT Leaf	BLK 0	WHT Leaf	BRN 1	WHT Leaf	RED 2	WHT Push	ORG 3	WHT Push	YEL 4	WHT Push	GRN 5	WHT Push	BLU 6	WHT N/A	VIO 7
	SWI0009-00		SWI0009-00		SWI0009-00											
BLK-pin 10	Left Flipper button		Right Flipper button		Divertor		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		N/C	

Yellow/White Switch - Opto Cable WCA0186-00 SW-16 Board 1 - Dip Switch 1 ON

J2 Bank A	Return 1 Pin2 on SW-16		Return 2 Pin3 on SW-16		Return 3 Pin4 on SW-16		Return 4 Pin5 on SW-16		Return 5 Pin6 on SW-16		Return 6 Pin7 on SW-16		Return 7 Pin 8 on SW-16		Return 8 Pin9 on SW-16	
Ground	WHT OPTO	BLK 16	WHT OPTO	BRN 17	WHT OPTO	RED 18	WHT OPTO	ORG 19	WHT OPTO	YEL 20	WHT OPTO	GRN 21	WHT OPTO	BLU 22	WHT OPTO	VIO 23
BLK-pin 10																
Bank B	Return 1		Return 2		Return 3		Return 4		Return 5		Return 6		Return 7		Return 8	
Ground	YEL OPTO	BLK 24	YEL OPTO	BRN 25	YEL OPTO	RED 26	YEL OPTO	ORG 27	YEL OPTO	GRY 31	YEL OPTO	GRN 29	YEL OPTO	BLU 30	YEL OPTO	VIO 31
BLK-pin 10																

Red Switch Cable WCA0184-00 SW-16 Board 2 - Dip Switch ON

J2 Bank A	Return 1 Pin2 on SW-16		Return 2 Pin3 on SW-16		Return 3 Pin4 on SW-16		Return 4 Pin5 on SW-16		Return 5 Pin6 on SW-16		Return 6 Pin7 on SW-16		Return 7 Pin 8 on SW-16		Return 8 Pin9 on SW-16	
Ground	RED Micro	BLK 32	RED S/U	BRN 33	RED S/U	GRY 34	RED S/U	ORG 35	RED S/U	YEL 36	RED Micro	GRN 37	GRN 38	BLU 38	RED Micro	VIO 39
BLK-pin 10	SWI0001-00		SWIF0011-02		SWIF0011-02		SWIF0011-02		SWIF0011-02				N/A		SWI0001-00	
			DCL0031-07		DCL0031-07		DCL0031-07		DCL0031-07		LEFT VUK		N/A			

Gray Switch Cable WCA0190-00 SW-16 Board 2 - Dip Switch ON

J6 Bank B	Return 1 Pin2 on SW-16		Return 2 Pin3 on SW-16		Return 3 Pin4 on SW-16		Return 4 Pin5 on SW-16		Return 5 Pin6 on SW-16		Return 6 Pin7 on SW-16		Return 7 Pin 8 on SW-16		Return 8 Pin9 on SW-16	
Ground	GRY Leaf	BLK 40	GRY Leaf	BRN 41	GRY Leaf	RED 42	GRY Micro	ORG 43	GRY Micro	YEL 44	GRY Micro	GRN 45	GRY S/U	BLU 46	GRY S/U	VIO 47
BLK-pin 10	LEFT POP BUMPER		CENTER POP BUMPER		RIGHT POP BUMPER										N/A	
	SWI0019-01		SWI0019-01		SWI0019-01		SWI0001-00		SWI0001-00		SWI0001-00		SWIF0011-09		N/A	
													DCL0031-07			

Brown Switch Cable WCA0183-00 SW-16 Board 3 - Dip Switch ON

J2 Bank A	Return 1 Pin2 on SW-16		Return 2 Pin3 on SW-16		Return 3 Pin4 on SW-16		Return 4 Pin5 on SW-16		Return 5 Pin6 on SW-16		Return 6 Pin7 on SW-16		Return 7 Pin 8 on SW-16		Return 8 Pin9 on SW-16	
Ground	BRN S/U	BLK 48	BRN S/U	BRN 49	BRN S/U	RED 50	BRN S/U	ORG 51	BRN S/U	YEL 52	BRN S/U	GRN 53	BRN S/U	BLU 54	BRN S/U	VIO 55
BLK-pin 10	STAND LEFT 1		STAND LEFT 2		STAND LEFT 3		LEFT SPINNER		AIR		AIR		POP BUMPER BANK 1		POP BUMPER BANK 2	
	SWIF0011-09		SWIF0011-09		SWIF0011-09		SWI0005-00		SWIF0015-05		SWIF0015-05		SWIF0011-02		SWIF0011-02	
	DCL0031-08		DCL0031-08		DCL0031-08								DCL0031-07		DCL0031-07	

Orange Switch Cable WCA0185-00 SW-16 Board 3 - Dip Switch ON

J6 Bank A	Return 1 Pin2 on SW-16		Return 2 Pin3 on SW-16		Return 3 Pin4 on SW-16		Return 4 Pin5 on SW-16		Return 5 Pin6 on SW-16		Return 6 Pin7 on SW-16		Return 7 Pin 8 on SW-16		Return 8 Pin9 on SW-16	
Ground	ORG S/U	BLK 56	ORG S/U	BRN 57	ORG Micro	RED 58	ORG Micro	GRY 59	ORG Micro	YEL 60	ORG Micro	GRN 61	ORG S/U	BLU 62	ORG S/U	VIO 63
BLK-pin 10	POP RIGHT BANK 4		POP RIGHT BANK 3		ADVANCE BANK LEFT		ADVANCE BANK RIGHT		RIGHT ORBIT EXIT		RIGHT SPINNER		N/A		N/A	
	SWIF0011-02		SWIF0011-02		SWI0001-00		SWI0001-00		SWI0001-00		SWI0005-00		N/A		N/A	
	DCL0031-07		DCL0031-07													

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Violet Switch Cable WCA0189-00 SW-16 Board 4 - Dip Switch ON															
J2 Bank A	Return 1 Pin2 on SW-16		Return 2 Pin3 on SW-16		Return 3 Pin4 on SW-16		Return 4 Pin5 on SW-16		Return 5 Pin6 on SW-16		Return 6 Pin7 on SW-16		Return 7 Pin 8 on SW-16		Return 8 Pin9 on SW-16
Ground	VIO S/U	BLK 64	VIO S/U	BRN 65	VIO S/U	RED 66	VIO S/U	ORG 67	VIO S/U	YEL 68	VIO S/U	GRN 69	VIO Leaf	BLU 70	VIO Micro 71

BLK-pin 10	BASM0123-00	BASM0123-00	BASM0123-00	BASM0123-00	BASM0123-00	SWIR0031-09	BASM0122-00	
	TANK 1	TANK 2	TANK 3	TANK 4	TANK 5	COW	COW REBOUND	RIGHT VUK
	DCL0031-16	DCL0031-17	DCL0031-18	DCL0031-19	DCL0031-20			

Green Switch Cable WCA0187-00 SW-16 Board 4 - Dip Switch ON															
J6 Bank B	Return 1 Pin2 on SW-16		Return 2 Pin3 on SW-16		Return 3 Pin4 on SW-16		Return 4 Pin5 on SW-16		Return 5 Pin6 on SW-16		Return 6 Pin7 on SW-16		Return 7 Pin 8 on SW-16		Return 8 Pin9 on SW-16
Ground	GRN Micro	BLK 72	GRN Micro	BRN 73	GRN S/U	RED 74	GRN S/U	ORG 75	GRN S/U	YEL 76	GRN S/U	GRY 77	GRN Micro	BLU 78	GRN Leaf 79

BLK-pin 10	SWI0001-00	SWI0001-00	SWIF0011-09	SWIF0011-09	SWIF0011-09	SWIF0015-05	SWI0001-00	BASM0004-01
	RIGHT INLANE	RIGHT OUTLANE	STAND RIGHT 1	STAND RIGHT 2	STAND RIGHT 3	AIR	RIGHT ORBIT ENTER	RIGHT SLING SHOT
			DCL0031-08	DCL0031-08	DCL0031-08			

Black Switch Cable WCA0182-00 SW-16 Board 5 - Dip Switch ON															
J2 Bank A	Return 1 Pin2 on SW-16		Return 2 Pin3 on SW-16		Return 3 Pin4 on SW-16		Return 4 Pin5 on SW-16		Return 5 Pin6 on SW-16		Return 6 Pin7 on SW-16		Return 7 Pin 8 on SW-16		Return 8 Pin9 on SW-16
Ground	BLK Micro	GRY 80	BLK Micro	BRN 81	BLK Leaf	RED 82	BLK Leaf	ORG 83	BLK Micro	YEL 84	BLK Micro	GRN 85	BLK Leaf	BLU 86	BLK Micro 87

BLK-pin 10	SWI0001-00	SWI0001-00	BASM0004-01	BASM0001-00	SWI0001-00	SWI0001-00	BASM0002-00	N/A
	LEFT OUTLANE	LEFT INLANE	LEFT SLING SHOT	LEFT FLIPPER EOS	LEFT FLIPPER SAVE	RIGHT FLIPPER SAVE	RIGHT FLIPPER EOS	N/A

Blue Switch Cable WCA0188-00 SW-16 Board 5 - Dip Switch ON															
J6 Bank B	Return 1 Pin2 on SW-16		Return 2 Pin3 on SW-16		Return 3 Pin4 on SW-16		Return 4 Pin5 on SW-16		Return 5 Pin6 on SW-16		Return 6 Pin7 on SW-16		Return 7 Pin 8 on SW-16		Return 8 Pin9 on SW-16
Ground	BLU	BLK 88	BLU	BRN 89	BLU	RED 90	BLU	ORG 91	BLU Micro	YEL 92	BLU Micro	GRN 93	BLU	GRY 94	BLU Micro 95

BLK-pin 10	OPTO	OPTO	OPTO	OPTO	OPTO	OPTO	OPTO	SWI0002-00
	Ball Trough 1	Ball Trough 2	Ball Trough 3	Ball Trough 4	Ball Trough 5	Ball Trough 6	Ball Trough Jam	SHOOTER LANE

