

Standard Jamma pinout

Escape from the Planet of Robot Monsters pinout

Parts side

Solder side

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Parts side		Solder side		Parts side		Solder side	
	Gnd	1	A	Gnd		Gnd	A
	Gnd	2	B	Gnd		Gnd	B
	+5vdc	3	C	+5vdc		+5vdc	C
	+5vdc	4	D	+5vdc		+5vdc	D
-5vdc		5	E	-5vdc			E
	+12vdc	6	F	+12vdc		+12vdc	F
		7	H				H
	Coin counter 1	8	J	Coin Counter 2		Coin counter 1	J
		9	K				K
	Speaker +	10	L	Gnd (speaker)		Speaker +	L
		11	M				M
	Video Red	12	N	Video Green		Video Red	N
	Video Blue	13	P	Video Sync		Video Blue	P
	Gnd (Video)	14	R	Service Switch		Gnd (Video)	R
		15	S				S
Coin Sw. 1		16	T	Coin Sw. 2		Coin Sw. 1	T
Start 1		17	U	Start 2		Start 1	U
	1P Up	18	V	2P Up		Duck	V
	1P Down	19	W	2P Down			W
	1P Left	20	X	2P Left		Jump	X
	1P Right	21	Y	2P Right			Y
	Push 1	22	Z	Push 1		Fire	Z
	Push 2	23	a	Push 2			a
	Push 3	24	b	Push 3			b
	Spare 1	25	c	Spare 1		PL.1 Left & Rt.	c
	Spare 2	26	d	Spare 2		PL.1 Up & Dn.	d
	Gnd	27	e	Gnd		Gnd	e
	Gnd	28	f	Gnd		Gnd	f

Player 1

Player 2

*Jump (run jumper to pin 17 and pin 24)	17	U	*Jump (run jumper to pin U and pin b)	17	U	
Jumper Up & Dn and connect to pin 25	18	V	Jumper Up & Down and connect to pin c	18	V	Duck
	19	W		19	W	
Jumper Left & Rt and connect to pin 26	20	X	Jumper Left & Right and connect to pin d	20	X	Jump
	21	Y		21	Y	
Fire	22	Z	Fire	22	Z	Fire
Duck	23	a	Duck	23	a	
*Jump	24	b	*Jump	24	b	
**Connect to Hall Ef. Pcb pin 4 (Y)	25	c	** Connect to Hall Ef. Pcb pin 4 (Y) & -->	25	c	PL.2 Left & Rt.
***Connect to Hall Ef. Pcb pin 1 (X)	26	d	***Connect to Hall Ef. Pcb pin 1 (X) & -->	26	d	PL.2 Up & Dn.

You will need 2 Hall Effect PCBs (one per player side)

You will have to run a +5vdc wire to replace the ground wire on the joystick "up and left" micro switches for both player 1 and 2 joysticks unless you add the relays mentioned below

Hall Effect pcb pin out

***pin 1 = X
pin 2 = +5vdc
pin 3 = ground
**pin 4 = Y

This is an inter-connect harness that goes between this Logic board and a standard Jamma harness

The Hall Transistors will have to be replaced with a 10k trim pot. and lastly, you will need to calibrate the joystick by entering into the test mode and the first screen you see is the calibration screen. First, reset the joystick data by pressing the 2nd player FIRE and JUMP at the same time. NOW, you need to adjust the Pots on the Hall Effect PCBs until the red background colors around the "up, down, left, and right" disappear. That's all!

To circumvent the + 5 wire to the joysticks: purchase 4) +5vdc SPDT or SPST relays (Radio Shack) and wire the "+" side of the control coil and the "normally open" pin to +5vdc from the jamma harness on all 4 relays.

Now, on both 1 and 2 player, the UP and LEFT need to go to the relay (each pin has a separate relay) CONTROL COIL ground terminal on the relays. Now, a wire needs to be connected from the COMMON terminal of the relay back to the respective pin on the jamma adapter. It's important to know that to run these jumpers, it is easiest to cut the trace on the Jamma finger board *and the trace* that leads to the wire harness going to the cabinet switches, etc... is the wire that is connected to the relay control coil ground. And the wire that comes **from** the relay *Normally Open* terminal is the one that returns to the other-side of the cut trace on the Jamma finger board.

With the relays, it is not necessary to run any wires to the joysticks. The "Jamma adapter" is self contained.

I use Silicone household glue and glue the relays on the Jamma finger board after they were connected.

I am sure that there is a transistor that would do the job just as well, but this is beyond my technical skills.