J1 Power

#	Conn	Signal
1	J5-V, J2-1	12VAC
2	J5-W, J2-2	12VAC
3	J5-16	CoinCounter1
4	J5-19	CoinCounter2
5	J5-Z	5VDC
6	J3-1, J2-11, J5-S, J5-1	GND
7	NC	
8	J2-12	AC Ground

NOTE: O = Signal originates from this board/connection to other boards. I = Signal enters this connection from another board.

J2 Control

#	Conn	Signal
1	J1-1	Panel Lights
2	J1-2	Panel Lights
3	J4-Y	MissleFireSW
4	J5-C	CoinSwitchNO
5	J3-N	RotateLeftSW
6	J5-B	StartSwitchNC
7	J5-21	CoinSwitchNC
8	J3-M	RotateRightSW
9	J3-S	ThrustSW
10	J5-7	StartSwitchNO
11	J1-6	All Panel Switches Common (GND)
12	J1-8	AC Ground

J3 Memory/Sound

Signal	Conn	I/O	#	Pin	I/O	Conn	Signal
GND	J4-1		1	A	I	J4-8	
	J4-K	I	2	B	I	J4-6	
	J4-F	I	3	C	I	J4-12	
	J4-N	I	4	D	I	J4-15	
	J4-13	I	5	E	I	J4-9	
	J4-L	I	6	F	I	J4-5	
	J4-E	I	7	H	I	J4-11	
	J4-M	I	8	J	I	J4-R	
	J4-14	I	9	K	I	J5-2	SaucerVideo
RocketVideo	J5-5	I	10	L		NC	
	J4-B	I	11	M	I	J2-8	RotateRightSW
UpDown	J4-18	O	12	N	I	J2-5	RotateLeftSW
H1	J4-D	O	13	P	O	J5-N	RocketSaucerVideo
H0	J4-3	O	14	R	I	J5-M	Spin
H2	J4-4	O	15	S	I	J2-9	ThrustSW
HDir	J4-J	O	16	T	O	J4-19	UpDownEnable
LeftRight	J4-16	O	17	U	O	J4-17	LeftRightEnable
MissleSound	J4-2	I	18	V	O	J4-U	V1
AudioGate	J5-K	O	19	W	O	J4-T	V0
AudioOut (Blue)	-	O	20	X	O	J4-V	V2
12VDC	J5-X	I	21	Y	O	J4-H	VDir
ExplosionCom	J5-L	O	22	Z		J4-22	5VDC

J4 Motion

Signal	Ref	I/O	Pin	Letter	I/O	Ref	Signal
GND	J3-1		1	A		J5-1	GND
MissleSound	J3-18	O	2	B	O	J3-11	
H0	J3-14	I	3	C	I	J5-H	CountEnable
H2	J3-15	I	4	D	I	J3-13	H1
	J3-F	O	5	E	O	J3-7	
	J3-B	O	6	F	O	J3-3	
	NC		7	H	I	J3-Y	VDir
	J3-A	O	8	J	I	J3-16	HDir
	J3-E	O	9	K	O	J3-2	
SaucerMissleVideo	J5-4	I	10	L	O	J3-6	
	J3-H	O	11	M	O	J3-8	
	J3-C	O	12	N	O	J3-4	
	J3-5	O	13	P	O	J5-6	RocketMissleVideo
	J3-9	O	14	R	O	J3-J	
	J3-D	O	15	S		NC	
LeftRight	J3-17	I	16	T	I	J3-W	V0
LeftRightEnable	J3-U	I	17	U	I	J3-V	V1
UpDown	J3-12	I	18	V	I	J3-X	V2
UpDownEnable	J3-T	I	19	W	O	J5-E	RocketEnable
/CLK	J5-Y	I	20	X		NC	
SaucerEnable	J5-3	O	21	Y	I	J2-3	MissleFireSW
5VDC	J3-Z		22	Z		J5-22	5VDC

J5 Sync/Star

Signal	Ref	I/O	Pin	Letter	I/O	Ref	Signal
GND	J4-A		1	A		J5-S	GND
SaucerVideo	J3-K	O	2	B	I	J2-6	StartSwitchNC
SaucerEnable	J4-21	I	3	C	I	J2-4	CoinSwitchNO
SaucerMissleVideo	J4-10	I	4	D	I	SW7-NO	2PlayPerCoinSW
RocketVideo	J3-10	O	5	E	I	J4-W	RocketEnable
RocketMissleVideo	J4-P	I	6	F	I	SW6-NO	ReplaySW
StartSwitchNO	J2-10	I	7	H	O	J4-C	CountEnable
VideoCommon	–	O	8	J		NC	
TestPatternIn	SW8-C	I	9	K	O	J3-19	AudioGate
	NC		10	L	O	J3-22	ExplosionCom
	NC		11	M	O	J3-R	Spin
	NC		12	N	I	J3-P	RocketSaucerVideo
	NC		13	P		NC	
Connects to UF5-8	NC	O	14	R		NC	
	NC		15	S		SW7-C	SW6/SW7 Common (GND)
CoinCounter1	J1-3	O	16	T		NC	
TestPatternOut	SW8-NO	O	17	U		NC	
Connects to CLK	NC	O	18	V	I	J1-1	12VAC1
CoinCounter2	J1-4	O	19	W	I	J1-2	12VAC1
VideoOut	–	O	20	X	O	J3-21	12VDC
CoinSwitchNC	J2-7	I	21	Y	O	J4-20	/CLK
5VDC	J4-Z		22	Z		J1-5	5VDC