

MISSION: XX INSTRUCTION MANUAL



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IMPORTANT F.C.C. WARNING

W A R N I N G

This equipment generates, and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual, may cause interference to radio communications. As temporarily permitted by regulation it has not been tested for compliance pursuant to subpart J of part 15 of F.C.C. rules, which are designed to provide reasonable protection against such interference. Operation of this equipment in a residential area is likely to cause interference in which case the user, at his own expense, will be required to take whatever measures may be necessary to correct the interference.

PREPARING THE CABINET

STEPS:

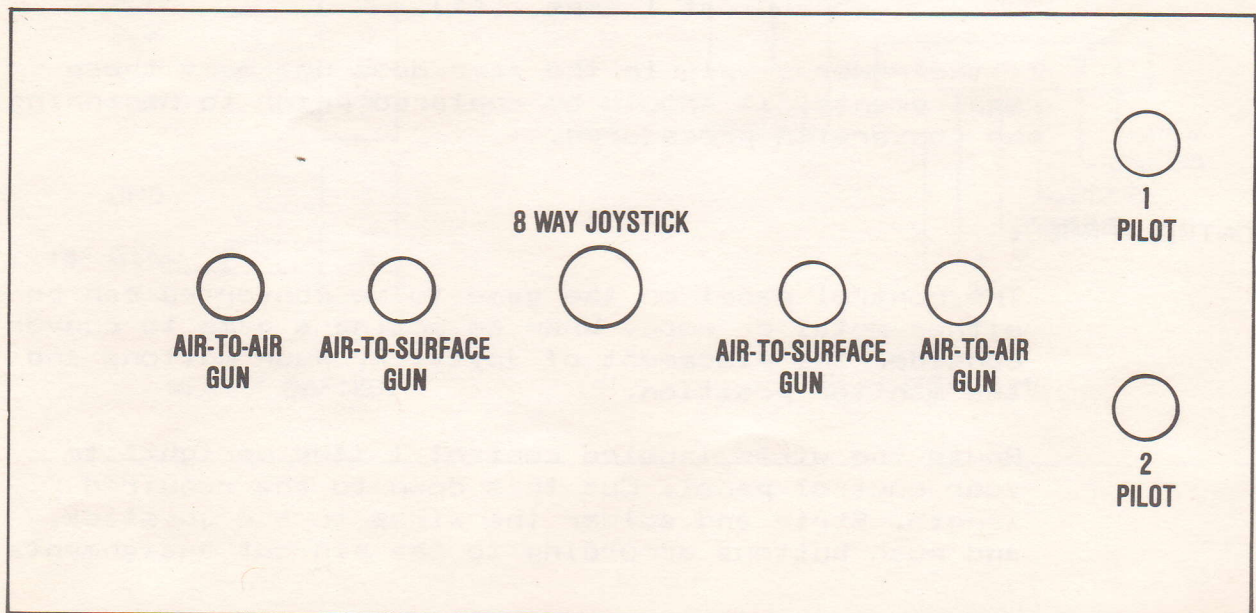
1. Remove the old P.C. board
2. Remove the control panel
3. Remove the marquee sign
4. Remove front or side decals
5. Remove the old wire harness

Leave all the A.C. wiring to monitor, power supply, flourescent lamps, fuses, on/off switches, and transformer circuitry intact. Remove all remaining wiring from the cabinet.

Clean the cabinet thoroughly and repair any visible damage. Using a coat of paint on an older cabinet can restore a "like new" appearance. If needed, painting should be performed at this time.

A little extra time and effort spent now on enhancing a cabinet's appearance will definitely result in increased earning power later!

SUGGESTED CONTROL PANEL LAYOUT



+5, +12, -5, VOLTS REQUIRED

VERTICAL MONITOR MOUNTING

SPECIAL REQUIREMENTS

TV MONITOR:

This game is designed to be used with a

horizontally ☐]
vertically ☒ [X]

mounted R.G.B. monitor, with the PCB as a negative polarity video and sink signals.

Your new game requires one sink wire connection called "composite sink". Tie the horizontal and vertical wires together, this signal is negative. Most monitors have supply positions for both negative and positive sink.

POWER SUPPLY:

The power supply requirements are as follows:

+5 VDC at 7 amps ☒ [X]
+12 VDC at 1 amps ☒ [X]
-5 VDC at 1 amps ☒ [X]

If the power supply in the game does not meet these requirements, it should be replaced prior to beginning the conversion procedures.

CONTROL PANEL:

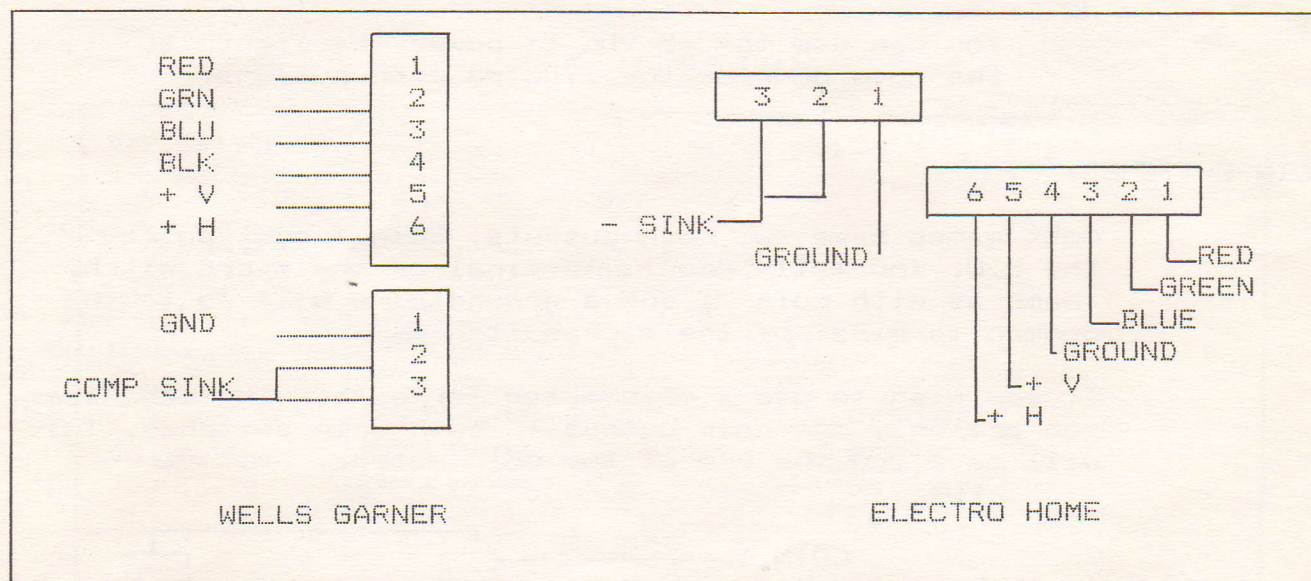
The control panel on the game to be converted can be either metal or wood. When selecting a game to convert consider the placement of joystick, push buttons and the monitor position.

Route the wires labeled control 1 (for upright) to your control panel. Cut this down to the required length. Strip and solder the wires to the joystick, and push buttons according to the pin-out assignments.

MONITOR WIRING:

Route the wires labelled "VIDEO" or "MONITOR" up to your monitor and cut the excess wire. Refer to the pin-out assignment at the back of this manual for video outputs. The color code is as follows:

RED wire	-----	VIDEO RED
GREEN wire	-----	VIDEO GREEN
BLUE wire	-----	VIDEO BLUE
BLACK wire	-----	VIDEO GROUND
WHITE wire	-----	NEGATIVE COMP. SINK



POWER SUPPLY WIRING:

Attach the wire harness connector to the main logic PCB.

*** CAUTION: Sometimes the connector is not keyed and it is very easy to install it reversed on the logic board. Double check that it is wired and connected properly.

The label with the game name should face the component side of the PCB.

Separate the bundle of wires labeled "POWER" and route them to your power supply. Strip about 1/2 " off the insulation and attach them to the power supply screws. The color code is:

RED wire # 18	-----	+ 5 VDC
GREEN wire # 18	-----	+ 12 VDC
BLUE or GREEN	-----	- 5 VDC
BLACK wire	-----	GROUND

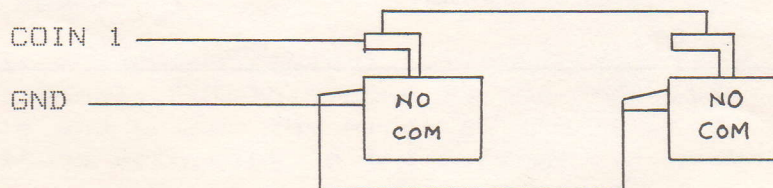
NOTE:

You can use the -5 VDC to power the lights to the coin door or the lighted push buttons.

COIN SWITCHES:

Most games have two coin outputs. Coin 1 must go to the N.O. (normally open) terminal of the microswitch, (same as with coin 2) and a ground wire will go to the common terminal of the microswitch.

If you wish to use a coin meter for both coin mechanisms, connect only one coin output to both coin switches. This will save you the use of two coin meters.



XX MISSION

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DIP SWITCH No.1		1	2	3	4	5	6	7	8
COIN CREDIT	1COIN 1CREDIT	OFF	OFF						
"	1COIN 2CREDIT	OFF	ON						
"	2COIN 1CREDIT	ON	OFF						
"	3COIN 1CREDIT	ON	ON						
FLIP				ON					
				OFF					
DEMC SOUNO	WITH SOUND				ON				
	NO SOUND				OFF				
GAME LEVEL	NOFMAI					OFF			
	DIFFCULT					ON			
GAME STYLE	TAELE TYPE						OFF		
	UPRIGHT TYPE						ON		

XX MISSION

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[illegible]

XX MISSION CONNECTOR

SOLDERING	NUMBER		COMPONENT
GND	A	1	GND
GND	B	2	GND
+ 5 V	C	3	+ 5 V
+ 5 V	D	4	+ 5 V
- 5 V	E	5	- 5 V
+ 12 V	F	6	+ 12 V
	H	7	
	J	8	
	K	9	
SPEAKER (+)	L	10	SPEAKER (-)
	M	11	
VIDEO GREEN	N	12	VIDEO RED
VIDEO SYNC	P	13	VIDEO BLUE
	R	14	VIDEO GND
	S	15	
COIN SWITCH	T	16	COIN SWITCH
START SWITCH (2)	U	17	START SWITCH (1)
2P CONTROL1 UP	Y	18	1P CONTROL1 UP
2P CONTROL2 DOWN	W	19	1P CONTROL2 DOWN
2P CONTROL3 LEFT	X	20	1P CONTROL3 LEFT
2P CONTROL4 RIGHT	Y	21	1P CONTROL4 RIGHT
2P CONTROL5 PUSH1	Z	22	1P CONTROL5 PUSH1
2P CONTROL6 PUSH2	a	23	1P CONTROL6 PUSH2
	b	24	
	c	25	
	d	26	
GND	e	27	GND
GND	f	28	GND

yellow

orange

blue
white

brown

red

green

violet

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Tokyo, Japan.