# MISSION: XX INSTRUCTION MANUAL



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# IMPORTANT F.C.C. WARNING

#### WARNING

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:

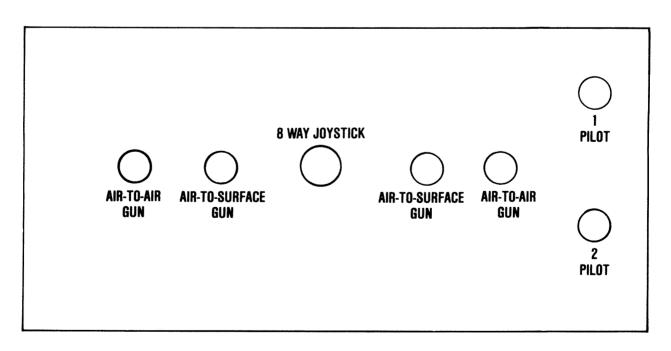
- 1. Remove the old P.C. board
- 2. Remove the control panel
- 3. Remove the marquee sign
- 4. Remove front or side decals
- 5. Remove the old wire harness

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



# **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:

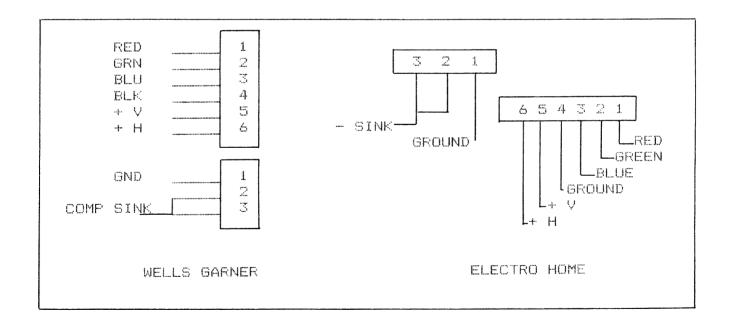
The control panel on the game to be converted can be either metal or wood. When selecting a game to convert consider the placement of joystick, push buttons and the monitor position.

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	MARY 20100 11743 MARY 11993	VIDEO RED
GREEN wire	TITLE TELEN TITLE SEASON MARKET	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	> pares eries 20000 bires	+ 5 VDC
GREEN wire # 18	51.11 January 11.5 M 100555 600555	+ 12 VDC
BLUE or GREEN		- 5 VDC
BLACK wire		GROUND

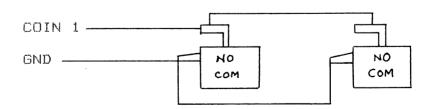
#### NOTE:

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

By UPL Company Limited. DIP SWITCH No.1 2 3 4 6 7 8 1 COIN CREDIT 1COIN 1CREDIT OFF OFF 1COIN 2CREDIT OFF ON , 2COIN 1CREDIT ON OFF 3COIN 1CREDIT ON ON ON FLIP OFF WITH SOUND ON DEMC SOUNO NO SOUND OFF NOFMAL OFF GAME LEVEL DIFFCULT ON TAELE TYPE OFF GAME STYLE UPRIGHT TYPE ON

### XX MISSION

				<u> </u>		By U	PL Con	pany Li	mited
DIP SWITCH No.2	}	1	2	3	4	5	6	7	8
Number of ships	3 Ships	OFF	OFF			.1			
	2 Ships	OFF	ON						
	4 Ships	ON	OFF						
	5 Ships	ON	ON						
1st Extra Ship	3 0,0 0 0 pts			OFF					
	50,000 pts			ON	1				
2nd Extra Ship	5 0,0 0 0 pts each				OFF	OFF			
	70,000 pts each				OFF	ON			
	9 0,0 0 0 pts each				ON	OFF			
	Nothing				ON	ON			

# XX MISSION CONNECTOR

SOLDERING NUMBER		CONPONENT	
GND	A	1	GND
GND	В	2	GND
+ 5 V	С	3	+ 5 V
+ 5 V	D	4	+ 5 <b>V</b>
- 5 V	E	5	−5 V
+ 1 2 V	F	6	+ 1 2 V
	Н	7	
	J	8	
	K	9	
SPEAKER (+)	L	10	SPEAKER (+)
	M	11	
VIDEO GREFN	N	1 2	VIDEO RED
VIDEO SYNC	P	13	VIDEO BLUE
	R	1 4	VIDEO GND
	S	15	
COIN SWITCH	Т	1 6	COIN SWITCH
START SWITCH (2)	U	1 7	START SWITCH (1)
2P CONTROL1 UP	Y	18	1P CONTROL1 UP
2P CONTROL2 DOWN	W	1 9	1P CONTROL2 DOWN
2P CONTROL3 LEFT	X	2 0	1P CONTROL3 LEFT
2P CONTROL4 RIGHT	Y	2 1	1P CONTROL4 RIGHT
2P CONTROL 5 PUSH 1	Z	2 2	1P CONTROL5 PUSH1
2P CONTROL 6 PUSH 2	a	2 3	P CONTROL6 PUSH2
	b	2 4	
	С	2 5	
	d	2 6	
GND	е	2 7	GND
GND	f	28	GND

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