

TIME PILOT '84

FURTHER INTO UNKNOWN WORLD™

TIME PILOT '84 CONVERSION KIT
INSTRUCTION MANUAL



Konami®

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Konami, Inc.

20655 S. WESTERN AVE., SUITE 116, TORRANCE CALIFORNIA 90501
TEL.:(213) 533-8644 8648 TELEX:4720119 KONAMER FAX.:(213) 533-6040

CONTENTS

○ CONTENTS OF CONVERSION PACK.....	1
○ TO THE TECHNICIAN	2
• INTRODUCTION	
• BEFORE CONVERTING	
• QUESTIONS AND ANSWERS	
○ IMPORTANT.....	3
○ WARNING.....	4
○ TROUBLESHOOTING.....	5
• CONTROL	
• MONITOR	
• POWER SUPPLY	
○ DIP SWITCH SETTING	6
○ GENERAL WIRING DIAGRAM	7
○ DIAGNOSTIC PROG.(P.C.B)	8
• SELF TEST	
• MANUAL TEST	
○ HELPFUL SUGGESTIONS.....	9

CONTENTS OF CONVERSION PACK

- 1- Main Printed Circuit Board, P. C. Board Cage
- 1- Wiring Harness
- 1- Marquee Overlay(Header)
- 1 set - Side Panel Graphics(Left and Right)
- 1- Control Panel Overlay
- 1 set - Control Button Decals
(1 player, 2 player, lever, play instructions, copyright seal)
- 1- Joystick
- 2- Push Buttons
- 1- Technical Instruction Manual
- 1- Registration Card

TIME PILOT'84: TO THE TECHNICIAN

INTRODUCTION

This instruction manual has been specifically designed for your use. It will provide you with enough information to convert your old game as simply as possible. These are general points necessary for operating "TIME PILOT'84" safely and securely.

BEFORE CONVERTING

- (1) Be sure that you have all the necessary parts.
- (2) The wiring diagram for "TIME PILOT'84" is exactly the same as those for some of Konami games such as "GYRUSS", "TIME PILOT", "ROC'N ROPE" and "SUPER COBRA". So you only need to insert the new P. C. Board in case your game is one of them. However, close attention should be paid to the wiring diagram if you are not converting a Konami game.

QUESTIONS AND ANSWERS

Q. What machines can be converted?

A. Any game with color raster monitor can be converted with this kit.

Q. Will it be necessary to change the power supply?

A. If present power supply cannot handle the following current parameters, it will be necessary.

+5V	7.0A	MAIN BOARD
+12V	2.0A	SOUND BOARD

Q. How much wiring is involved?

A. Relatively very little.

By using the old wiring, you can save time by soldering the new connecting wires to the old ones. These old wires show exactly where to connect the new wires (See the wiring diagram).

Q. Will it be necessary to replace the present joystick and buttons?

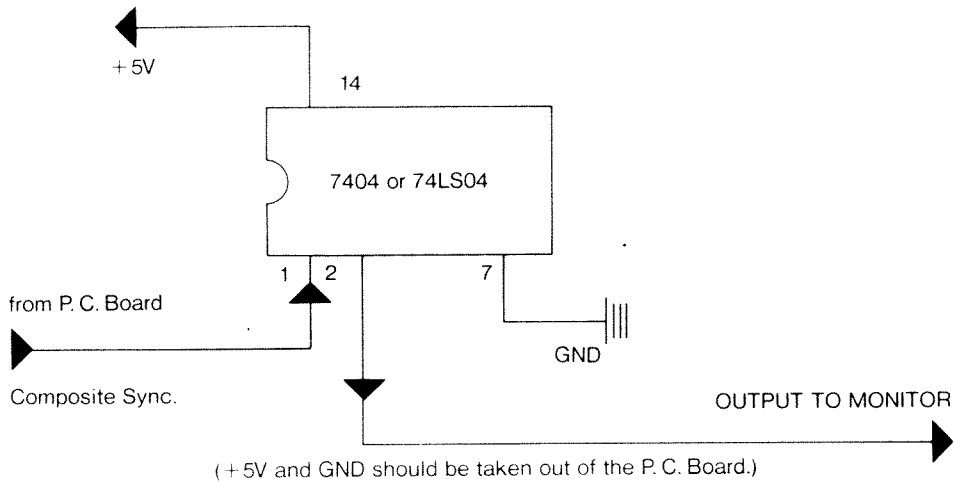
A. Yes. This kit includes the most suitable joystick and buttons for this game.

TIME PILOT'84: IMPORTANT

There is one very important thing for you to know. That is, whether your monitor's sync. is positive or negative.

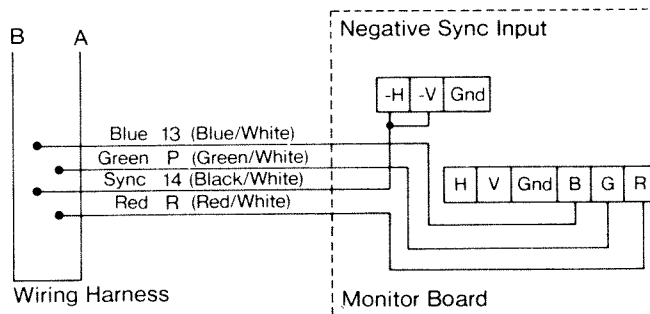
SYNC. OF THIS P. C. BOARD APPEARS IN THE NEGATIVE PULSE IN THE TERMINAL

- (1) If your TV monitor requires tuning, adjustment must be made. Adjustment means altering composite sync. by using the IC chips known as 7404 or 74LS04. For your information, in case of this P. C. Board, the signal on this pin is a method which is a combination of HSYNC and VSYNC.



- (2) Separate Sync, modification for "TIME PILOT'84".
If your monitor has "Separate Sync." input, for example "Electro home made" and "Wells-Gardner made".

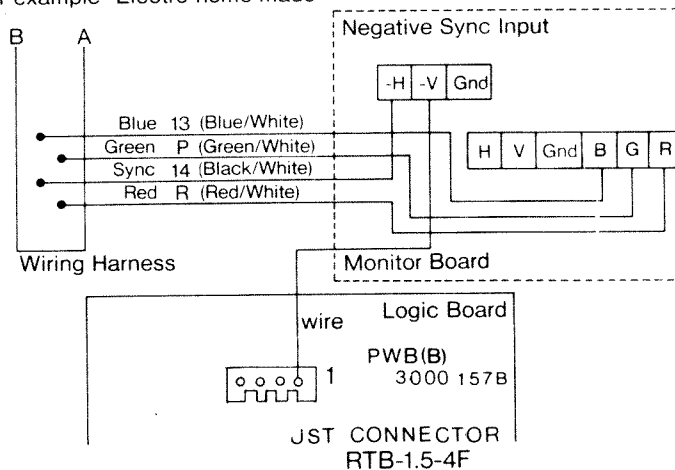
1 Step 1



Still the picture is not stable.

2 Step 2

Prepare Hook-up wire. For example "Electro home made"



TIME PILOT'84: WARNING

OPERATOR INFORMATION

WARNING

F. C. C. REGULATION COMPLIANCE

The P. C. Board cage supplied with this conversion kit must be used and grounded at the time of installation.

This is required to avoid radio frequency radiation and to comply with the limits for a class "A" computing device pursuant to Subpart "J" of Part 15 of F. C. C. Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment.

The operation of this equipment in a residential area, is likely to cause interference - in which case the user will be required to take whatever measures are necessary to correct the interference at his own expense.

TIME PILOT'84: TROUBLESHOOTING

Before returning the P. C. Board for repair, the following should be checked (a video game is composed of these three main blocks and a P. C. Board).

CONTROL

- The joystick does not work in a specific direction.
- The shooting button does not work.
 - Check the condition of the joystick and button.
 - Check the contact of the wiring harness.

MONITOR

- The screen is dead.
- The picture does not stand still.
- The picture is either too big or too small.
- The picture is contorted.
- Colors are wrong.
 - Check if something is wrong with the monitor.
 - Check conditioning of the monitor.
 - Check the contact of the wiring harness.

POWER SUPPLY

- The power supply is dead.
- No sound(+12V)
- It intermittently moves wrong.
- It sometimes becomes reset.
 - Check +5V and +12V
 - Check stability of voltage.
 - Check the contact of wiring harness.

TIME PILOT'84: DIP SWITCH SETTING

●DIP SW 1 SET

SW	COIN 2 SW SET				COIN 1 SW SET				COIN	PLAY
	8	7	6	5	4	3	2	1		
<input type="radio"/>	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	1	1
	OFF	OFF	OFF	ON	OFF	OFF	OFF	ON	1	2
	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF	1	3
	OFF	OFF	ON	ON	OFF	OFF	ON	ON	1	4
	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF	1	5
	OFF	ON	OFF	ON	OFF	ON	OFF	ON	1	6
	OFF	ON	ON	OFF	OFF	ON	ON	OFF	1	7
	OFF	ON	ON	ON	OFF	ON	ON	ON	2	1
	ON	OFF	OFF	OFF	ON	OFF	OFF	OFF	2	3
	ON	OFF	OFF	ON	ON	OFF	OFF	ON	2	5
	ON	OFF	ON	OFF	ON	OFF	ON	OFF	3	1
	ON	OFF	ON	ON	ON	OFF	ON	ON	3	2
	ON	ON	OFF	OFF	ON	ON	OFF	OFF	3	4
	ON	ON	OFF	ON	ON	ON	OFF	ON	4	1
	ON	ON	ON	OFF	ON	ON	ON	OFF	4	3
	ON	ON	ON	ON	ON	ON	ON	ON	COIN 1 FREE PLAY COIN 2 INVALIDITY	

: Shows normal Setting

The level of difficulty of this game was set as it is by Konami, based on the average player's skill. Therefore the level should remain as it is, and if there should be a necessity to alter it, it should be done with enough consideration.

(ATTENTION) Free play means the situation, you can play without putting any COINS in.

●DIP SW 2 SET

1. THE NUMBER OF PLAYER

SW	2	1	NUMBER
<input type="radio"/>	OFF	OFF	3
	OFF	ON	4
	ON	OFF	5
	ON	ON	7

2. SWITCH FOR CHANGE OF TABLE OR UP RIGHT

SW	3	TYPE
<input type="radio"/>	OFF	TABLE:using I/O for 1 or 2 player
	ON	UP RIGHT:using I/O for only 1 player

3. BONUS SET

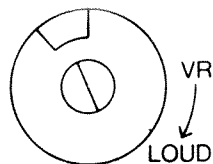
SW	5	4	BONUS POINTS
<input type="radio"/>	OFF	OFF	1 0000 POINTS AND AFTER EVERY 5 0000 POINTS
	OFF	ON	2 0000 POINTS AND AFTER EVERY 6 0000 POINTS
	ON	OFF	3 0000 POINTS AND AFTER EVERY 7 0000 POINTS
	ON	ON	4 0000 POINTS AND AFTER EVERY 8 0000 POINTS

4. DIFFICULTY OF THE GAME

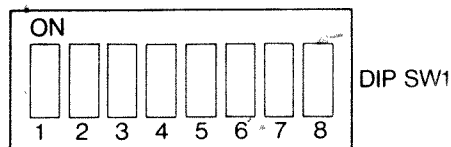
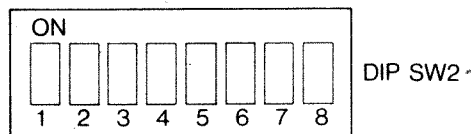
SW	7	6	DIFFICULTY
<input type="radio"/>	OFF	OFF	1 (EASY)
	OFF	ON	2
	ON	OFF	3
	ON	ON	4 (DIFFICULT)

5. SOUND IN ATTRACTIVE MODE

SW	8	SOUND IN ATTRACTIVE MODE
<input type="radio"/>	OFF	SOUND OFF
	ON	SOUND ON



VR is for adjustment of sound volume. The volume is decreased by turning VR counter-clockwise.



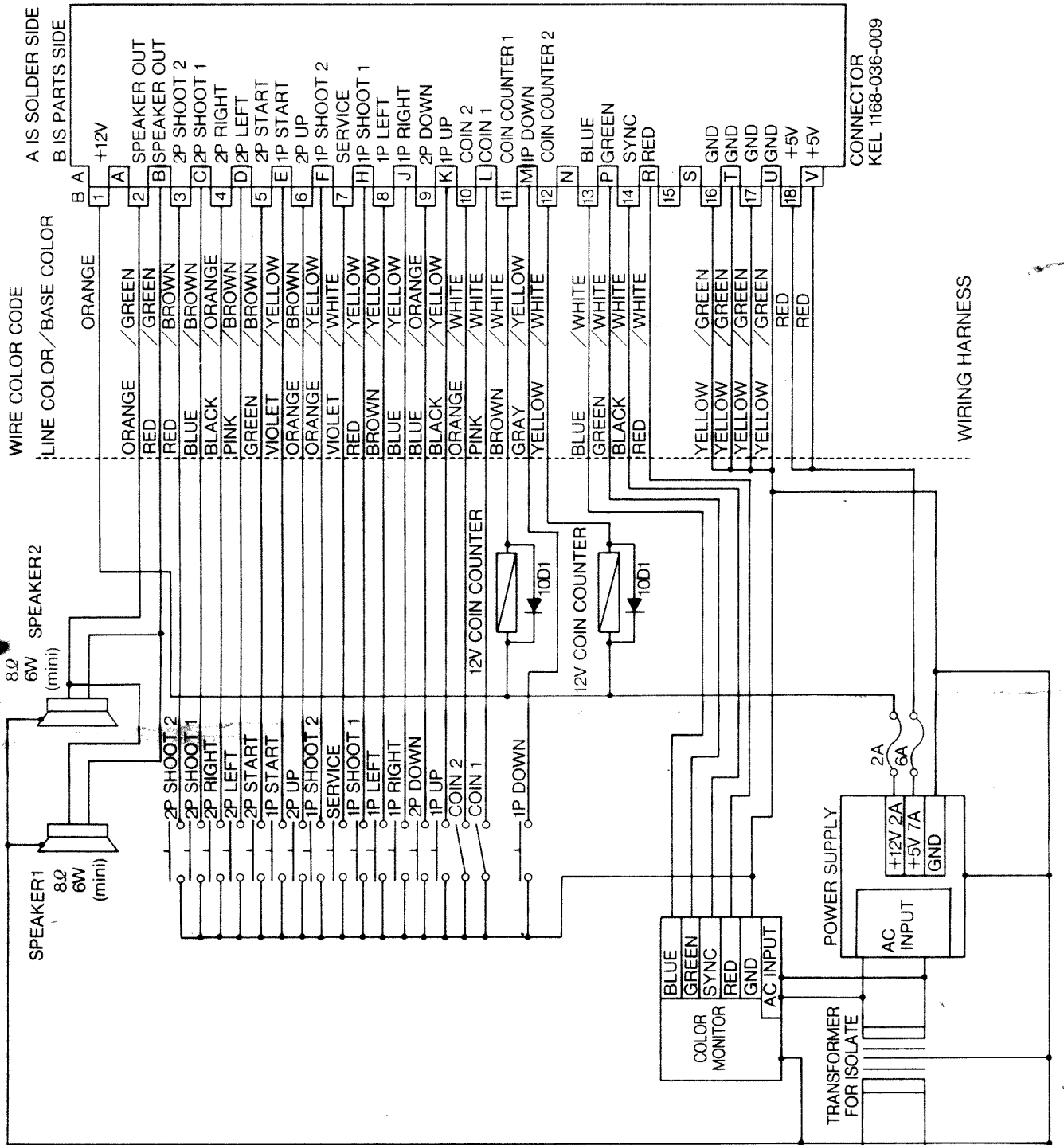
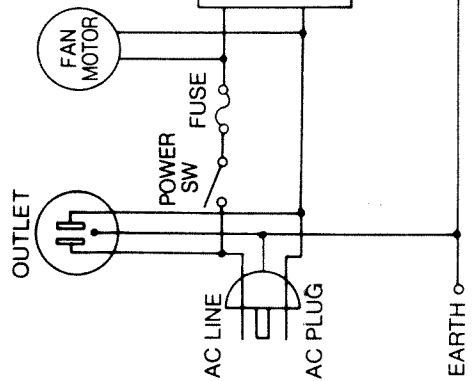
TIME PILOT'84: GENERAL WIRING DIAGRAM

[NOTE]
 In the case of "UP-RIGHT TYPE":
 No need to use the following
 terminals on a connector.

- C:2P SHOOT 1
- D:2P LEFT
- 3:2P SHOOT 2
- 4:2P RIGHT
- 6:2P UP
- 9:2P DOWN

**Follow this instruction
 for (+12V) the power supply
 capacity.**

SPEAKER	REQUIRED POWER CAPACITY
8Ω 6W	12V 1A
8Ω 6W 8Ω 6W	12V 2A
4Ω 12W	12V 2A
4Ω 12W 4Ω 12W	NOT APPLICABLE



CONNECTOR
 KEL 1168-036-009

WIRING HARNESS

EARTH

TIME PILOT'84: DIAGNOSTIC PROG. (P.C.B)

SELF TEST

This P.C.Board has a function to check if there is anything wrong with the cabinet or P.C.Board itself.

When the power is switched ON the board will always check the basic block and if normal, indicate OK on the monitor and then will start the game.

If not normal, it will indicate BAD and the picture will stop.

MANUAL TEST

(a) How to Start

Switch on the power while pressing both 1P and 2P buttons until the cross hatch appears on the screen. Switch off the power once, before starting the game.

(b) How to Select the Test Item

- Test items will change in the following order as you push 1P button each time. When Item 6 is over, Item 1 will come back.
- Each item will last until you push 1P button.

(c) Test Items

<u>Item</u>	<u>Details</u>
1 Conditioning of Picture Contortion	— Cross hatch will appear all over the screen.
2 Color Conditioning	— 16 blocks will show the colors. Adjust the monitor.
3 Control Check	— Names of all the switches (lever, COIN SW, etc.) will be on the screen. As you turn on each of them, "0" on its right will turn to "1".
4 Coin Counter Check	— To check the coin counter, counts up Coin Counter 1 and then Coin Counter 2 eight times each. Then move on to Item 5.
5 DIP SW SET	— DIP SW SET will be displayed on the screen. DIP SW condition will be read into computer only when the power is switched ON.
6 Sound Check	— There will be sounds for testing purpose. There will be automatically 8 seconds interval between one sound and next. The cycle of sounds will repeat.

TIME PILOT'84: HELPFUL SUGGESTIONS

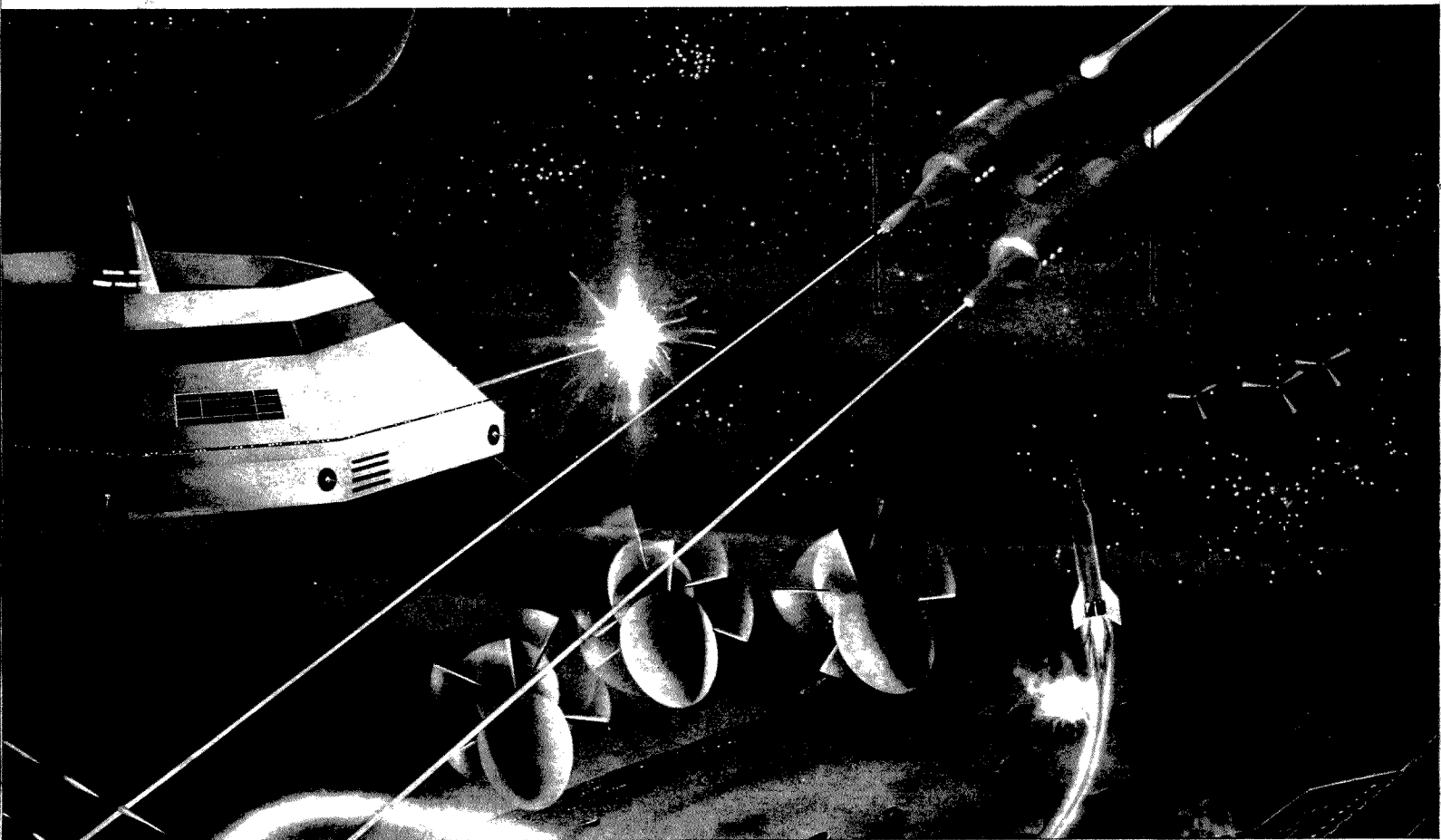
THE FOLLOWING PROCEDURE IS RECOMMENDED BY THE GRAPHICS MANUFACTURER IN APPLYING THE SIDE PANEL DECALS AND MARQUEE OVERLAY ONLY.

1. REMOVE PROTECTIVE BACKING FROM DECALS.
2. LAY OUT DECALS, ADHESIVE SIDE UP, AND SPRAY EVENLY WITH A FOAMING AEROSOL SUCH AS "WINDEX".
3. USING THE SAME SPRAY, SPRAY THE AREA OF THE CABINET AND MARQUEE WHERE DECALS ARE TO BE APPLIED.
4. POSITION THE DECAL INTO PLACE.
5. USING A SOFT SQUEEGEE OR PIECE OF CARDBOARD, BEGINNING AT THE CENTER OF THE DECAL, SLOWLY AND EVENLY PRESS OUT THE EXCESS FOAM UNTIL YOU ACHIEVE A SMOOTH FINISH.
6. ALLOW TO SET APPROXIMATELY 2 TO 3 HOURS.

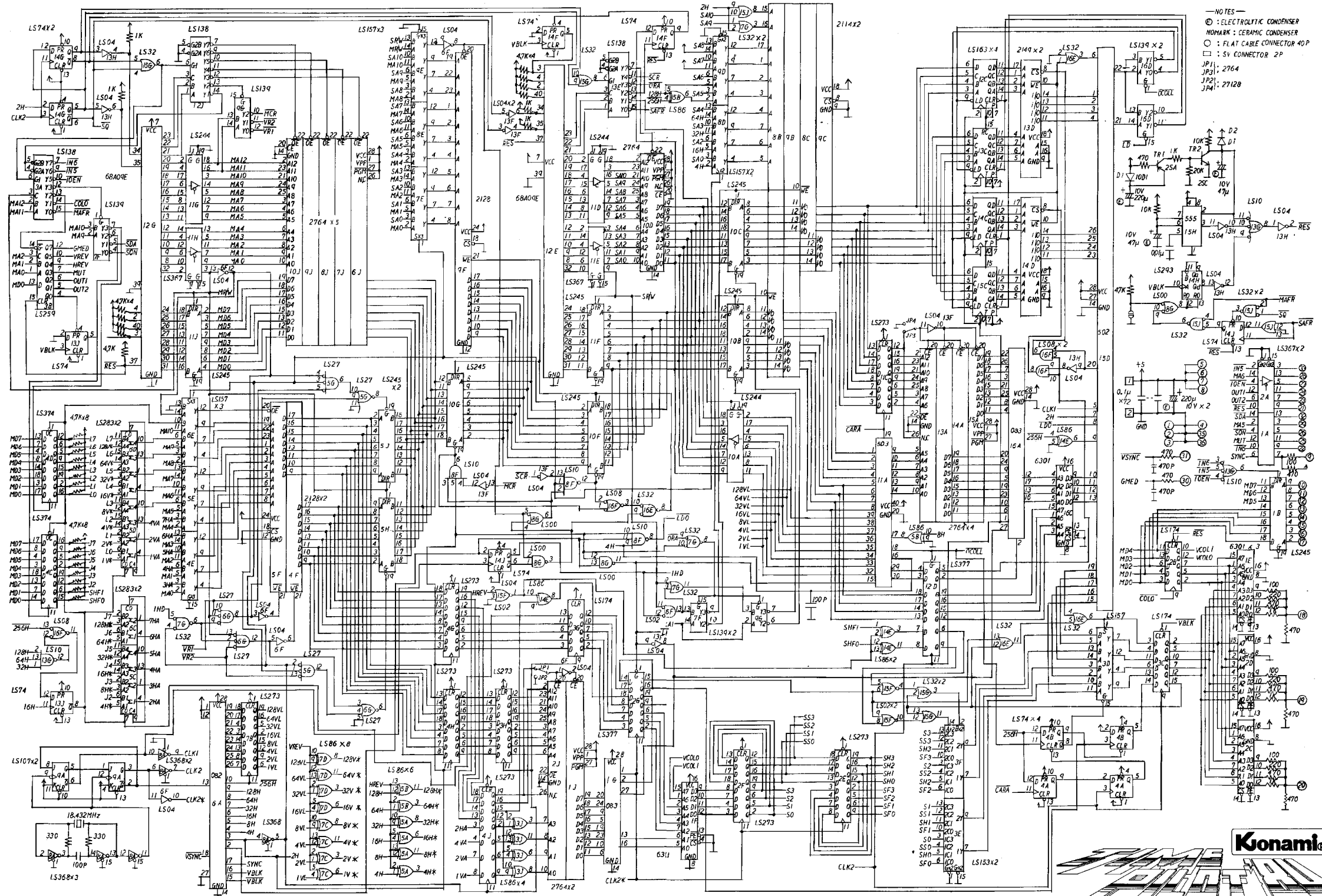
THIS PROCEDURE HAS BEEN FOUND TO BE THE MOST EFFECTIVE WAY OF ENSURING THE PROPER POSITIONING OF THE DECALS AS IT CREATES MANEUVERABILITY OF THE DECAL AND IS AN ADDED PROTECTION AGAINST THE DECAL COMING LOOSE OR CREASING DURING APPLICATION.

NOTE: THE PLAYER INSTRUCTION PANEL AND BUTTON LABELS ARE MADE OF A DESTRUCTIBLE ACRYLIC MATERIAL DESIGNED SPECIFICALLY TO KEEP THE PLAYER FROM PEELING THEM OFF.

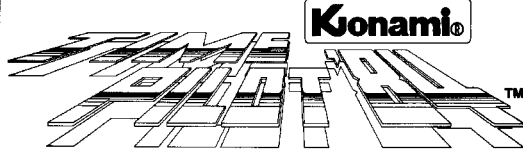
IT IS RECOMMENDED THAT ALL DECALS AND STICKERS BE ALLOWED TO SET FOR 24 HOURS AFTER APPLICATION FOR MAXIMUM ADHERENCE.



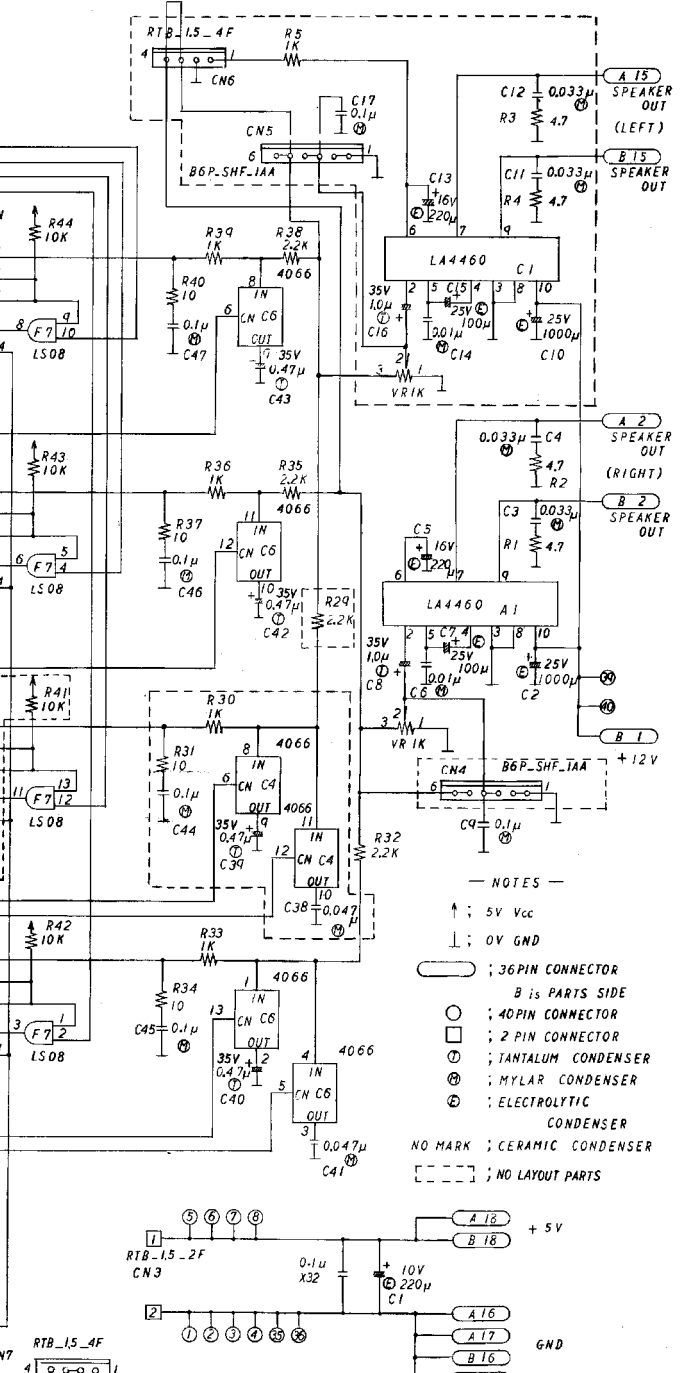
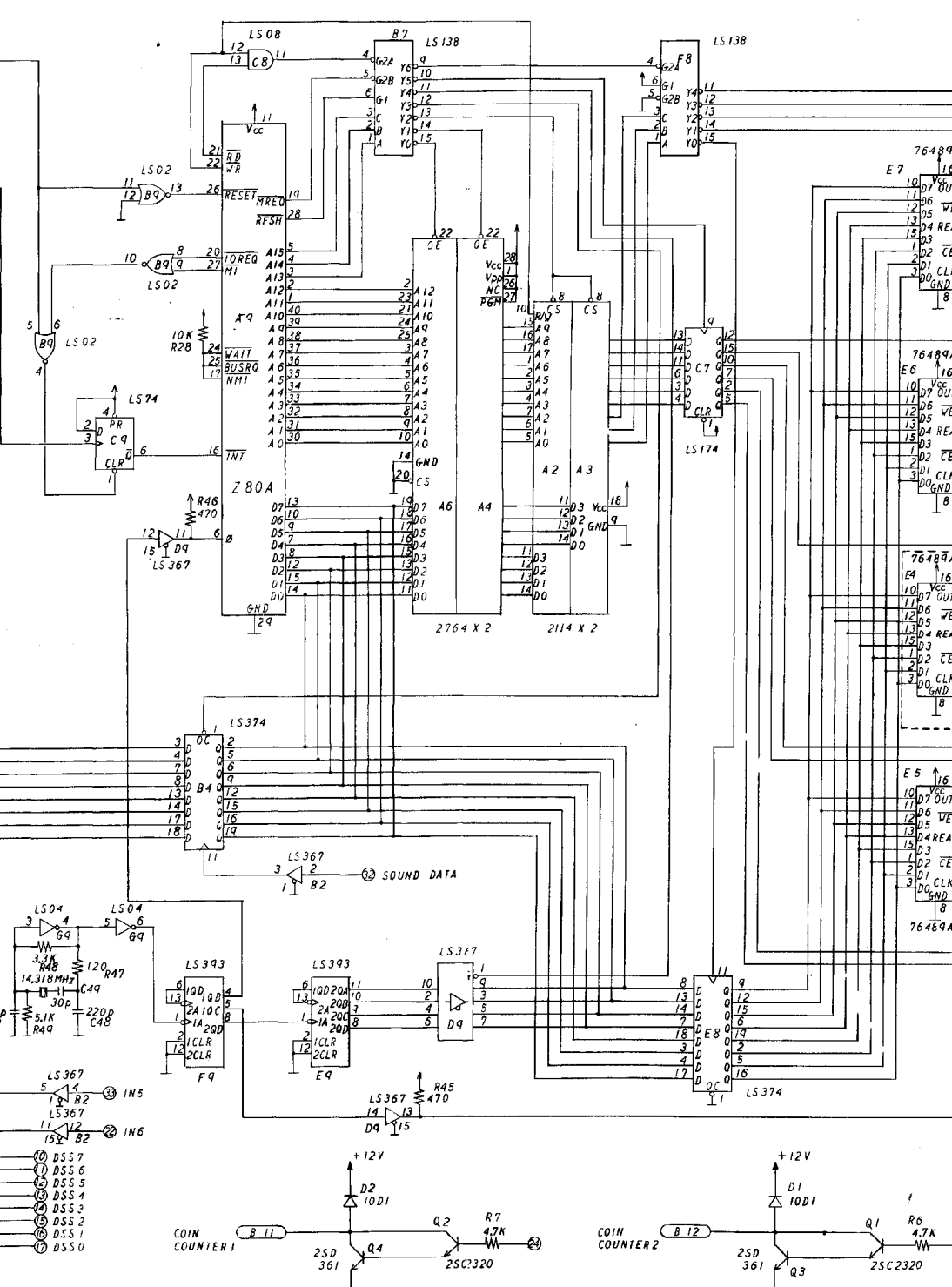
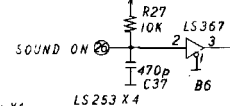
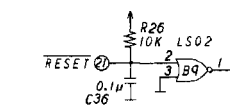
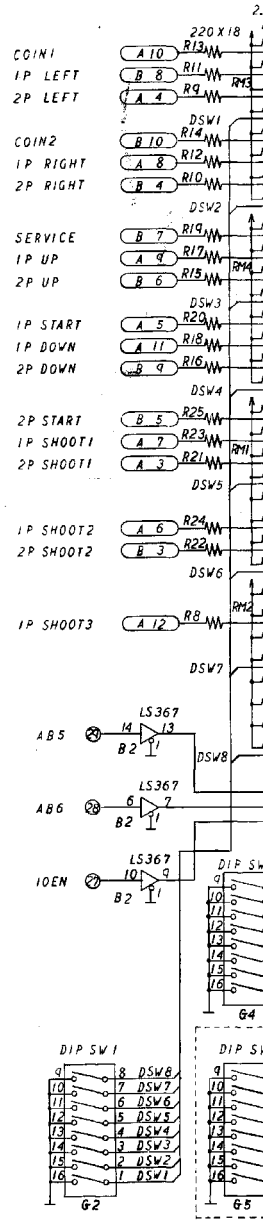
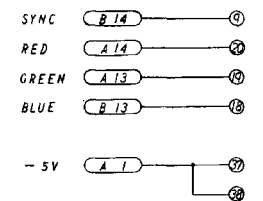
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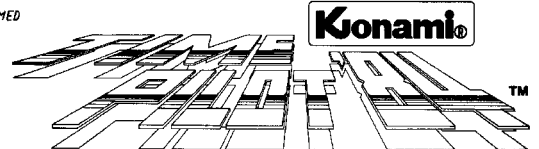
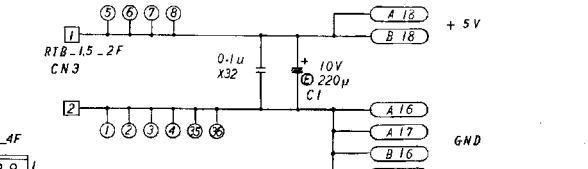
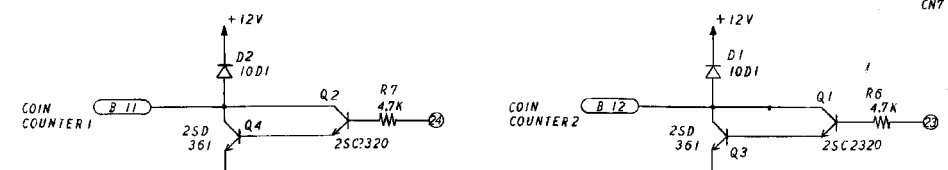
- NOTES
⊗ : ELECTROLYTIC CONDENSER
⊙ : CERAMIC CONDENSER
○ : FLAT CABLE CONNECTOR 40P
□ : SV CONNECTOR 2P
JP1: 2764
JP2: 27128



PWB(A)200 112D CRT BOARD



- NOTES
- ↑ : 5V Vcc
 - ↓ : 0V GND
 - : 36PIN CONNECTOR
 - : B is PARTS SIDE
 - : 40PIN CONNECTOR
 - : 2 PIN CONNECTOR
 - : TANTALUM CONDENSER
 - ⊗ : MYLAR CONDENSER
 - ⊕ : ELECTROLYTIC CONDENSER
 - NO MARK : CERAMIC CONDENSER
 - : NO LAYOUT PARTS



PWB(B)3000 157B SOUND BOARD